

#### **AGENDA**

# CHARTER TOWNSHIP OF MERIDIAN ZONING BOARD OF APPEALS MEETING

June 23, 2021 6:30 pm

**Zoom meeting ID: 867 6651 8469** 

Zoom password: 5151

1. CALL MEETING TO ORDER

- 2. APPROVAL OF THE AGENDA
- 3. CORRECTIONS, APPROVAL AND RATIFICATION OF MINUTES
  - A. April 28, 2021 Meeting Minutes
  - B. May 12, 2021 Meeting Minutes
- 4. COMMUNICATIONS
- 5. UNFINISHED BUSINESS
- 6. NEW BUSINESS

#### A. ZBA CASE NO. 21-06-23-1 (EROP, LLC), 2390 E. Federal Drive, Decatur, IL, 62526

DESCRIPTION: 2703 Grand River TAX PARCEL: 20-203-012 C-2 (Commercial)

The variances requested is to construct a drive through car wash facility at 2703 Grand River Avenue.

- 7. OTHER BUSINESS
- 8. PUBLIC REMARKS
- 9. BOARD MEMBER COMMENTS
- 10. ADJOURNMENT

Variance requests may be subject to change or alteration upon review of request during preparation of the staff memorandum. Therefore, Sections of the Code of Ordinances are subject to change. Changes will be noted during public hearing meeting.

Individuals with disabilities requiring auxiliary aids or services should contact the Meridian Township Board by contacting: Assistant Planner Justin Quagliata, 5151 Marsh Road, Okemos, MI 48864 or 517.853.4580 - Ten Day Notice is Required. Meeting Location: 5151 Marsh Road, Okemos, MI 48864 Township Hall



CHARTER TOWNSHIP OF MERIDIAN
ZONING BOARD OF APPEALS REGULAR MEETING MINUTES \*DRAFT\*
5151 MARSH ROAD, OKEMOS, MI 48864-1198
(517) 853-4000
WEDNESDAY, APRIIL 28, 2021
TOWN HALL ROOM

PRESENT: Chair Mansour, Members Field-Foster, Kulhanek, Newman, Opsommer

ABSENT: None

STAFF: Community Planning and Development Director Kieselbach; Assistant Planner

Chapman

#### 1. CALL MEETING TO ORDER

Chair Mansour called the meeting to order at 6:32 p.m.

#### 2. APPROVAL OF AGENDA

MEMBER FIELD-FOSTER MOVED TO APPROVE THE AGENDA AS SUBMITTED.

SECONDED BY MEMBER OPSOMMER

ROLE CALL TO VOTE:

YEAS: Members Field-Foster, Opsommer, Newman, Kulhanek, Chair Mansour

NAYS: None Motion carried: 5-0

#### 3. CORRECTIONS, APPROVAL & RATIFICATION OF MINUTES

A. April 14, 2021 Meeting Minutes

MEMBER OPSOMMER MOVED TO APPROVE THE MINUTES FROM WEDNESDAY, APRIL 14, 2021 AS SUBMITTED.

SECONDED BY CHAIR MANSOUR.

ROLE CALL TO VOTE:

YEAS: Member Opsommer, Chair Mansour, Members Field-Foster, Newman, Kulhanek

NAYS: None Motion carried: 5-0

#### 4. **COMMUNICATIONS - NONE**

#### 5. UNFINISHED BUSINESS - NONE

#### 6. NEW BUSINESS

A. ZBA CASE NO. 21-04-28-1 (Allied Signs, Inc.), 33650 Giftos, Clinton Township, MI, 48035

DESCRIPTION: 2090 Grand River Avenue

TAX PARCEL: 21-226-003 ZONING DISTRICT: C-2 (Commercial)

The applicant is requesting a variance from the following section of the Code of Ordinances:

• Section 86-687(3)(c), Wall signs. In the case of multitenant structures, one wall sign shall be permitted for each tenant having an individual means of public access up to a size equivalent to one square foot for each one lineal foot of building frontage occupied.

Allied Signs, Inc., is requesting a variance to install a second wall sign.

Assistant Planner Chapman outlined the case for discussion.

Chair Mansour asked the applicant or the applicant's representative if they would like to address the Zoning Board of Appeals (ZBA).

James Nutly, Athletico Physical Therapy, 4815 W 138 Court, Crestwood, IL, director and project manager, stated they are asking for a sign on the east side of the building they are leasing on Grand River Avenue. The current signage on the pedestal sign and on the building is blocked by trees. It is difficult to see the building when a client is traveling west on Grand River Avenue. The driveway is on the east end of the property and the request would assist from a safety standpoint.

Member Field-Foster voiced concern there was no access from the west side of the building. She stated there was not safety, practical difficulties or a unique circumstance for the request.

Chair Mansour stated she did not see that there was a visual blockage of the site. There have been three other similar wall sign requests and the issue is being considered by the Planning Commission. She stated she could not find a practical difficulty.

Member Newman stated he did understand the request from a business stand-point but the request could not meet the review criteria.

Member Opsommer stated there was a request for a second wall sign on the west side of the building in 2014 and asked if this request was different.

Assistant Planner Chapman replied there was a similar request from Payless Shoes.

Member Opsommer asked if there was a pedestal sign for the three tenants or could there be a monument sign.

Assistant Planner Chapman replied there is an existing pedestal sign at the corner of Grand River Avenue and Okemos Road for the tenants.

Member Opsommer asked if the pedestal sign could be moved.

Director Kieselbach replied he pedestal sign could be moved. The leading edge of the sign must be setback ten feet from the street right-of-way line. The pedestal sign could be a maximum of 25 square feet in size and a maximum height of 16 feet.

Member Opsommer stated there are other business with the same site conditions. The Township is working on traffic calming methods to slow the traffic.

Chair Mansour stated replacing the pedestal sign might be a minimal action but is not the request before the ZBA.

Jim Fields, Allied Signs, 33650 Giftos, Clinton Township, representing the tenant, stated the signs are block by the trees and the speed of the roadway cause the visibility issues.

Chair Mansour asked if the applicant had explored moving the pedestal sign with the property owner.

Mr. Nutly stated he did not believe the landlord would be interested in spending more money since he has the building relatively full.

Chair Mansour asked if the applicant could have a window sign.

Director Kieselbach replied the tenant can have a window sign. A window sign cannot cover more than 40% of the surface area of the window.

Chair Mansour asked if the applicant could have a sign on the eastern facade and in the window on the south facade and not require a variance.

Director Kieselbach replied the applicant currently has an existing wall sign on the south facade facing Grand River Avenue. If the applicant wanted to install a window sign that would be allowed. The applicant does not have an entrance on the eastern side and a variance would be required for a sign.

Chair Mansour read review criteria one from Section 86-221 of the Code of Ordinances which states unique circumstances exist that are peculiar to the land or structure that are not applicable to other land or structures in the same zoning district. Chair Mansour stated there were no unique circumstances for the request. It is a multi-tenant building without a secondary means of access.

Chair Mansour read review criteria two which states these special circumstances are not self-created. Chair Mansour stated the circumstances were not self-created and they are not unique.

Chair Mansour stated if one of the review criteria could not be met than going through the other review criteria was not necessary and the variance should not be approved.

MEMBER FIELD-FOSTER MOVED TO DENY A VARIANCE ZBA CASE NO. 21-04-28-1 (Allied Signs, Inc.), 33650 Giftos, Clinton Township, MI, 48035

SECONDED BY MEMBER OPSOMMER

Member Kulhanek stated he agreed that the applicant cannot meet the criteria.

ROLE CALL TO VOTE:

YEAS: Members Field-Foster, Opsommer, Newman, Kulhanek, Chair Mansour

NAYS: None

Motion carried: 5-0

#### 7. OTHER BUSINESS- NONE

#### 8. PUBLIC REMARKS

Chair Mansour opened public remarks and seeing none, closed the floor for public remarks.

#### 9. MEMBER COMMENTS

Chair Mansour offered congratulations to Member Hendrickson and his family on the new arrival to their family.

Chair Mansour asked to have these recurring issue with signage be considered by the Planning Commission and Township Board.

Chair Mansour offered congratulations on Director Kieselbach's retirement which will occur at the end of May.

#### **10. ADJOURNMENT**

Meeting adjourned at 7:15 pm.

Respectfully Submitted.

Robin Faust, Administrative Assistant II

CHARTER TOWNSHIP OF MERIDIAN
ZONING BOARD OF APPEALS REGULAR MEETING MINUTES \*DRAFT\*
5151 MARSH ROAD, OKEMOS, MI 48864-1198
(517) 853-4000
WEDNESDAY, MAY 12, 2021
TOWN HALL ROOM

PRESENT: Chair Mansour, Members Field-Foster, Newman, Opsommer (arrived at 6:36

pm), Shorkey

ABSENT: None

STAFF: Community Planning and Development Director Kieselbach; Assistant Planner

Chapman

#### 1. CALL MEETING TO ORDER

Chair Mansour called the meeting to order at 6:33 p.m.

#### 2. APPROVAL OF AGENDA

MEMBER SHORKEY MOVED TO APPROVE THE AGENDA AS SUBMITTED.

SECONDED BY MEMBER FIELD-FOSTER

ROLE CALL TO VOTE:

YEAS: Members Field-Foster, Newman, Shorkey, Chair Mansour

NAYS: None Motion carried: 4-0

- 3. CORRECTIONS, APPROVAL & RATIFICATION OF MINUTES NONE
- 4. **COMMUNICATIONS NONE**
- 5. UNFINISHED BUSINESS NONE
- 6. NEW BUSINESS
  - A. ZBA CASE NO. 21-05-12-1 (Sherman), 1167 Woodside Drive, Haslett, MI, 48840 POSTPONED
  - A. ZBA CASE NO. 21-05-12-2 (Usman), 4850 Arapaho Trail, Okemos, MI, 48864

DESCRIPTION: 4850 Arapaho Trail

TAX PARCEL: 20-281-014

ZONING DISTRICT: RAA (Single Family, Low Density)

The variance request is to make improvements within the floodplain at 4850 Arapaho Trail.

Assistant Planner Chapman outlined the case for discussion.

Chair Mansour asked the applicant or the applicant's representative if they would like to address the Zoning Board of Appeals (ZBA).

Sam Usman, 4850 Arapaho Trail, applicant, stated he did work in the floodway without a permit. He stated he had spoken with DC Engineering and Michigan Department of Environment, Great Lakes and Energy (EGLE), and township staff regarding the proposed plan to remove the berm and other work in the floodway.

Peter Cook, 4830 Arapaho Trail, neighbor to the south, stated that although he cannot see the work that was completed, he can see it when he kayaks. He stated that removing the berm, stone wrap, and the other work will not have an effect on the flood levels, and the work the owners have completed looks nice.

Kurt Krahulik PE, DC Engineering, 1210 N Cedar Street, Lansing, stated his firm performed the engineering work and is available for questions on the plans or the hydraulics of the river.

Member Newman asked which variance is being considered.

Director Kieselbach stated the Zoning Ordinance does not allow work in the floodplain except under certain conditions and the review criteria has been met. The review criteria is from the Conservancy District (floodplain regulations). If the Zoning Board of Appeals (ZBA) should choose to grant the variance, the variance would allow the applicant to retain the concrete pad, fire pit, stone wall along the river and a small amount of the bank stabilization material which is in the floodway. The applicant has agreed to remove the other items specified on the map by EGLE.

Member Newman asked why the structures are being allowed to remain.

Director Kieselbach stated the applicant would not be allowed to have the structures in the floodway without the variance. These structures have a low impact to potential flooding. The Township Engineers, who are also certified Floodplain Managers, do not have an issue with these structures if this variance was granted.

Member Opsommer asked when the Township passed the Zoning Ordinance prohibiting structures in the floodway since it appears this residential area was developed in the 1960s and a majority of the structures are now in the floodway.

Director Kieselbach stated the Township has had floodplain regulations dating back to the 1960s. The Township had a severe flood in the 1970s and the Zoning Ordinance was rewritten to consider the situation and not allow any habitable space in the floodway or floodplain. This subdivision was approved just days before the update to the Zoning Ordinance and the waiver to allow the exceptions was added in 1975.

Member Opsommer asked if the compensating cut has occurred and will that bring this request into compliance.

Director Kieselbach replied the fills have occurred and the compensating cut will need to be completed to bring the area into compliance. The compensating cut could be made as a condition

of the approval. The applicant will still need to certify with EGLE on the compensating cut and the work that has been performed has been approved by EGLE.

Chair Mansour stated she is going to allow a resident to speak who was unable to join the meeting during public comment.

Marsha Leister, 2525 Small Acres Lane, stated she owns 2525 and 2517 Small Acres along with two additional lots for a total of seven acres. She stated the Red Cedar River flows through her properties and the previous owners, the Barron's, dredged the marshland and constructed the stone wall to maintain the natural flow of the Red Cedar River. Over the years, the river has been returning to its natural state and on occasion floods her property creating a peninsula. She voiced concern with the amount of work that was allowed to be performed on the applicant's property because it has now caused additional flooding on her property. She stated she is opposed to adding cement in this area.

Member Field-Foster asked the applicant who performed the work.

Mr. Usman replied he hired a landscaper and stated he did not know about the regulations concerning the floodway. He wanted to enjoy his backyard and shelter their young child from the river.

Member Field-Foster asked why was the concrete pathway constructed by the pool.

Mr. Usman stated the pool is not attached to the house and felt the concrete pathway made the area around the pool safer.

Engineer Kurt Krahulik stated that a portion of the pool deck is adjacent to a 20-foot drop into the river and wanted to extend the two-foot deck to avoid walking off it. The pool deck itself is out of the floodway but the fill for the concrete pathway is not.

Member Newman stated EGLE has determined that this will not affect the floodway and he would not want to assume otherwise.

Chair Mansour stated EGLE oftentimes does not have as robust requirements as the Township but EGLE's approvals are necessary.

Trustee Opsommer asked if the compensation cut was approved in this area of the parcel.

Engineer Krahulik stated no and there are steep banks but the cut will not affect the floodplain. The floodway cut will have an impact on the water storage areas and the cut will be insignificant. Also, only a small amount of stone rip-rap will remain when the berm is removed and then a turf reinforcement matt will be installed.

Member Field-Foster asked if all the houses in the neighborhood are in the floodway or floodplain because this would mean the homes would all need variances if they wanted to do work in their yards.

Director Kieselbach stated this request is for work in the floodway. The floodplain includes the floodway and floodway fringe. The northern portion of the subdivision along the river close to Herron Creek is all floodway and some of the residences are in the floodplain or floodway fringe

which is restrictive. If any of the homes wanted to add structures such as decks or patios, then it would require a variance.

Chair Mansour read review criteria one from Section 86-221 of the Code of Ordinances which states unique circumstances exist that are peculiar to the land or structure that are not applicable to other land or structures in the same zoning district. Chair Mansour stated the structures are already in place and find this to be a unique circumstance because they are already installed.

Chair Mansour read review criteria two which states these special circumstances are not self-created. Chair Mansour stated she could not state that these circumstances were not self-created because the applicant installed the structures. Due to the historical changes to the Zoning Ordinance in 1975 just after this subdivision was built and not wanting to change the Zoning Ordinances to allow for non-habitable structures to be built in the floodplain, this results in a case-by-case review for approval.

Member Field-Foster read review criteria three which states strict interpretation and enforcement of the literal terms and provisions of this chapter would result in practical difficulties. Member Field-Foster stated the homeowner cannot do anything on the property that would not require a variance and that would be a practical difficulty.

Member Field-Foster read review criteria four which states that the alleged practical difficulties which will result from a failure to grant the variance would unreasonably prevent the owner from using the property for a permitted purpose. She stated she does not see that if the owner is prevented from building a fire pit it would prevent the owner from using the residence for its permitted purpose and not every residence in Meridian Township has a fire pit. Member Field-Foster asked if there were other safety features or precautions that could have been taken around the pool area to avoid individuals from falling down the embankment. She stated she is unsure she can agree that this criteria has been met.

Chair Mansour stated with the structures already in place, this creates a unique circumstance. If the variance is denied, the following items would have to be removed: fire pit, concrete pathway, berm, and stone rip-rap at the edge of the pool deck, the extension of the pool deck, and concrete for the patio deck. The removal of these items could be considered unreasonable because these structures already exist. She asked what the result would be if these items are removed because, with the removal of the berm, there is the requirement to install additional stabilization material.

Member Shorkey stated the pool and patio were already installed. He stated he understands about maintaining and improving the existing facilities but found the explanation about the fence questionable. The fire pit area is a self-created issue. He questioned that the owner did not know his residence was in a floodplain and while he may not have known regulations, the floodplain is not unique to this neighborhood and surrounding area. He stated he could support the concrete patio and decking around the pool for safety purposes but is not sure about accepting the fire pit and concrete pathway to the fire pit. He stated if everything in this neighborhood requires a variance, what then is the unique circumstance for this request?

Trustee Opsommer stated he also has concerns with the fire pit. He stated he believes a majority of the fill was for the pool area and riverbank stabilization. He stated the flooding in this area is very severe at times and fencing with spindles to protect children might dam up the water flow. He stated the predominant issue is to protect the public interest in this area. He stated he could

agree with review criteria one, two and three, but is unsure he could agree with review criteria four.

Member Field-Foster asked if the ZBA could address the structures separately because she could not agree to the fire pit because of review criteria four and five.

Director Kieselbach stated the ZBA can split the question.

Chair Mansour stated the ZBA and applicant has agreed that the berm and water feature are to be removed and the compensating cut will go back to net zero and the ZBA members will now evaluate the review criteria as it pertains to the patio and pool deck.

Chair Mansour read review criteria one from Section 86-221 of the Code of Ordinances which states unique circumstances exist that are peculiar to the land or structure that are not applicable to other land or structures in the same zoning district. Chair Mansour stated based on the zoning in this area, this review criteria has been met.

Chair Mansour read review criteria two which states these special circumstances are not self-created. Chair Mansour stated any change in this area will require a variance and this is not a self-created circumstance for the patio and pool deck.

Chair Mansour read review criteria three which states strict interpretation and enforcement of the literal terms and provisions of this chapter would result in practical difficulties. Chair Mansour stated if looking at just the patio and pool deck, any improvement would require a variance and the safety aspect would meet the requirement of practical difficulties.

Chair Mansour read review criteria four which states that the alleged practical difficulties which will result from a failure to grant the variance would unreasonably prevent the owner from using the property for a permitted purpose.

Member Newman stated he could support a 42" rim around the pool to use it safely and supports the need for concrete repairs.

Chair Mansour stated by not allowing the owners to improve their property or to replace a broken patio or install a walkway for safety purposes would unreasonably prevent an owner from using their property.

Chair Mansour read review criteria five which states granting the variance is the minimum action that will make possible the use of the land or structure in a manner which is not contrary to the public interest and which would carry out the spirit of this zoning ordinance, secure public safety, and provide substantial justice. Chair Mansour stated the variance for expanding the patio rim around the pool and concrete replacement were minimum actions.

Chair Mansour read review criteria six which states granting the variance will not adversely affect adjacent land or the essential character in the vicinity of the property. Chair Mansour stated for the two structures this review criteria has been met.

Chair Mansour read review criteria seven which states the conditions pertaining to the land or structure are not as general or recurrent in nature as to make the formulation of a general

regulation for such conditions practicable. Chair Mansour stated for the two structures this review criteria has been met.

Chair Mansour read review criteria eight which states granting the variance will be generally consistent with public interest and the purposes and intent of this Chapter. Chair Mansour stated for the two structures this review criteria has been met.

MEMBER FIELD-FOSTER MOVED TO GRANT THE VARIANCE FOR THE POOL DECK AND FOR THE PATIO DECK IN ZBA CASE NO. 21-05-12-2 (Usman), 4850 ARAPAHO TRAIL, OKEMOS, Okemos, MI, 48864

#### SECONDED BY CHAIR MANSOUR

Chair Mansour added as a friendly amendment, the compensating cut will be net-zero and this has full EGLE permitting and approval.

Engineer Krahulik stated the removal of the berm and stone rip-rap which will be replaced with the non-biodegradable ground cover will be part of the soil erosion plan even if it is not required by EGLE.

Member Field-Foster accepted the friendly amendments.

ROLE CALL TO VOTE:

YEAS: Members Field-Foster, Newman, Shorkey, Opsommer, Chair Mansour

NAYS: None Motion carried: 5-0

Chair Mansour read review criteria one from Section 86-221 of the Code of Ordinances which states unique circumstances exist that are peculiar to the land or structure that are not applicable to other land or structures in the same zoning district. Chair Mansour stated based on the zoning in this area, this review criteria has been met.

Chair Mansour read review criteria two which states these special circumstances are not self-created. Member Field-Foster stated it is not self-created because it is a floodway.

Chair Mansour read review criteria three which states strict interpretation and enforcement of the literal terms and provisions of this chapter would result in practical difficulties. Member Field-Foster stated any type of improvement would require a variance and this would result in a practical difficulty.

Chair Mansour read review criteria four which states that the alleged practical difficulties which will result from a failure to grant the variance would unreasonably prevent the owner from using the property for a permitted purpose.

Member Field-Foster stated to deny the request for a fire pit would not unreasonably prevent the owner from using the property for its permitted purpose.

Member Opsommer agreed the fire pit does not fit the review criteria although the fire pit does not impact the required compensating cut.

Chair Mansour read review criteria five which states granting the variance is the minimum action that will make possible the use of the land or structure in a manner which is not contrary to the public interest and which would carry out the spirit of this zoning ordinance, secure public safety, and provide substantial justice. Chair Mansour stated she cannot met this criteria.

Member Field-Foster stated there are alternative ways to have a fire pit.

Chair Mansour read review criteria six which states granting the variance will not adversely affect adjacent land or the essential character in the vicinity of the property. Chair Mansour stated she could meet this criteria but not review criteria four or five

Chair Mansour read review criteria seven which states the conditions pertaining to the land or structure are not as general or recurrent in nature as to make the formulation of a general regulation for such conditions practicable. Chair Mansour stated she could meet this criteria but not review criteria four or five.

Chair Mansour read the eight review criteria which states granting the variance will be generally consistent with public interest and the purposes and intent of this Chapter.

Chair Mansour reviewed the special three criteria from the Conservancy District (floodplain regulations) as it pertains to the pool deck, patio deck, and fire pit:

1. No variance shall be granted for the development of new structures, the substantial improvement or relocation of old structures, or development of any kind within the floodway area when such development, construction, improvement, or relocation would cause any increase in flood levels associated with the base flood elevation.

Chair Mansour stated the Township Engineer has stated patio deck and pool deck structures will not cause any issues and he also stated the fire pit will not cause any issues.

2. a. A sufficient cause for granting the variance must be shown.

Chair Mansour stated there has been sufficient evidence and cause to grant the variance for the pool deck and patio deck. She stated she is not finding sufficient cause for the fire pit.

Mr. Usman asked if the experts state the fire pit does not affect the net-zero gain and the ZBA board members have stated he can install a different type of fire pit which would result in the same function, why then is he being asked to remove something that is already installed; why can't he keep the fire pit because the concrete does not affect anything.

Chair Mansour stated the criteria is very strict and it is a challenge to meet it. It is intended to be a challenge otherwise all the variances would be granted. Although the fire pit does exist, a fire pit does not prevent the homeowner from using the property. The ZBA members were able to meet halfway on the pool deck and patio deck structures because they are existing uses, maintenance repairs were needed and for safety reasons but not for the fire pit because it is a new structure.

Member Newman stated unfortunately the fire pit is installed but depending on the decision, the fire pit may need to be removed. To state that although a rule was broken resulting in the installation of the fire pit does not mean it would automatically be approved. If the fire pit is approved, it could create additional issues where other neighbors will want similar variance requests approved.

Chair Mansour stated her major issues are with the amount of work that was performed without any prior approvals and then a request arrives to ignore the rules and approve the work just because it has already been installed. This creates a precedent and is why each case is considered individually and a case is approved because it meets the criteria. The problem is the work was completed without permits.

Mr. Usman stated he accepts full responsibility for not obtaining the permits but if he had taken the proper steps, would the fire pit in its current location be approved by the ZBA.

Chair Mansour stated if the applicant had applied for the permit, the Building Department would have referred it to the ZBA because of the location in the floodway. The ZBA would not have approved the fire pit in its current location.

Mr. Usman stated the fire pit's construction resulted in a net-zero gain. He stated he should have the right to enjoy his property and he would like a fire pit to enjoy his property.

Member Field-Foster stated the minimum action could have been a free-standing fire pit because it would not have been a permanent structure. The applicant has constructed a permanent structure that is in the floodway and while there is a net-zero gain, the review criteria states that denying the variance request would unreasonably prevent the applicant from using their residence. A fire pit does not unreasonably prevent the use of the residence or enjoyment of the backyard.

Mr. Usman stated it is unreasonable to require him to move a fire pit and chairs back and forth to enjoy his property. He understands he did not do the work the right way but feels the logic is flawed to require him to remove it now that it is installed.

Chair Mansour stated the variance stays with the house. There is stringent review criteria to be met as well as additional review criteria. A resident is not required to have a fire pit to live in Meridian Township. It is not the sole permitted purpose for owning a residence. The habitable structure is the permitted purpose. The ZBA Board can meet the review criteria for the existing patio and pool decks, the need for repairs, and expanding the pool deck for safety purposes. The ZBA is stating this was not an existing fire pit and the fire pit is not necessary to use the property for its permitted purpose. The ZBA does not like to require an item or structure to be removed when it has already been installed but the request must meet the review criteria.

b. A determination that failure to grant the variance would result in a practical difficulty to the applicant.

Chair Mansour stated Mr. Usman has stated it would be a practical difficulty to remove a fire pit that has already been installed. She stated she could agree with his reason but his reason does not apply to this criteria.

c. A determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense or will not create nuisances, cause fraud on or victimization of the public or conflict with this chapter.

Chair Mansour stated the listed review criteria do not apply directly to the fire pit but the pool deck and patio deck do meet the review criteria.

d. A determination that the variance is the minimum necessary to afford relief.

Chair Mansour stated this review criteria could be met for the pool and patio decks but is not sure it could be met for the fire pit.

Member Field-Foster stated the reasons under the first eight review criteria are the same for this review criteria as it pertains to the fire pit,

Chair Mansour referred back to review criteria four and five as it pertains to the fire pit area.

MEMBER SHORKEY MOVED THAT THE VARIANCE REQUEST FOR THE FIRE PIT IN ZBA CASE NO. 21-05-12-2 (Usman), 4850 ARAPAHO TRAIL, OKEMOS, MI, 48864 BE DENIED DUE TO BEING UNABLE TO MEET THE REVIEW CRITERIA REQUIREMENTS OF #4 AND #5

#### SECONDED BY MEMBER FIELD-FOSTER

#### ROLE CALL TO VOTE:

YEAS: Members Field-Foster, Newman, Shorkey, Opsommer, Chair Mansour

NAYS: None Motion carried: 5-0

#### 7. OTHER BUSINESS

None

#### 8. PUBLIC REMARKS

Chair Mansour opened the floor to public comment at 8:50 pm

Marsha Leister asked if the compensating cut is in the 100-year floodplain or floodway.

Director Kieselbach replied it is all in the 100-year floodplain consists of floodway and floodway fringe and the compensating cut will be in the floodway portion of the floodplain.

Marsha Leister asked who owns the gully/inlet between Mr. Usman and the golf course properties.

Mr. Cook stated that the parcel was taken over by the Township for failure to pay taxes.

Marsha Leister stated if the wood was removed, it would assist with the erosion problems Mr. Usman is having on his property and it would keep flooding down on her property. She stated she has an approved fire ring and although she would love to have cement and rocks around her fire pit, she knows it would not be approved because that is part of living on the river.

Chair Mansour suggested Ms. Leister write to the Township and Planning Commission about tree removal on the neighboring parcel.

Brian Beauchaine, 5077 Meridian Road, stated he was sworn in on the ZBA in 1998 by former Clerk Virginia White. He stated he was humbled to serve with Director Kieselbach who has led the Community Planning and Development Department in a way that this Township will appreciate for a long time. This is Director Kieselbach's last ZBA Meeting and this is still the best meeting with the best board. He thanked Director Kieselbach for protecting the Township for 41 years and transitioning into retirement is something that Director Kieselbach deserves.

Chair Mansour thanked Mr. Beauchaine for his many years of service on the ZBA Board and stated his presence is missed.

Chair Mansour closed the floor for public comment at 8:55 pm.

#### 9. MEMBER COMMENTS

Chair Mansour also thanked Director Kieselbach for his service of 496 months which is an extraordinary number. She expressed her appreciation for having Director Kieselbach for so long, learned so much from his insight, and the extraordinary service to the Township. Congratulations to Director Kieselbach on his retirement.

Director Kieselbach thanked the Zoning Board of Appeals. It has been a pleasure to work with this Board over the years. As a young planner, his first Zoning Board of Appeals case was in 1987. As a planner, he had to know the Zoning Ordinance and be able to communicate that Ordinance. It was a great learning experience and had a lot of good mentors on the Board and from staff members. He has worked with good Planning Directors and it was a great experience working for the Township.

Trustee Opsommer stated he is unaware of the Township owning land in this area and asked if the Township does own land adjacent to the property being discussed tonight.

Director Kieselbach stated staff will look into it. If the property was tax reverted, it would go to Ingham County first and then the County would ask the Township if it would want to accept it.

Trustee Opsommer stated he does not remember voting on it at the Township Board level. When asked about the parcel, Mr. Cook stated he thought it was the Township who took it over but maybe it was the County. There were signs posted on the property about taxes being unpaid. The parcel is north of the golf course and east of his property on Herron Creek. Trustee Opsommer stated there are other efforts in the area to remove logs and asked Director Kieselbach to speak with Deputy Township Manager Perry about this issue. The Drain Commissioner's Office is performing clearing work in that area.

#### **10. ADJOURNMENT**

Meeting adjourned at 9:03 pm.

Respectfully Submitted.

Robin Faust, Administrative Assistant II

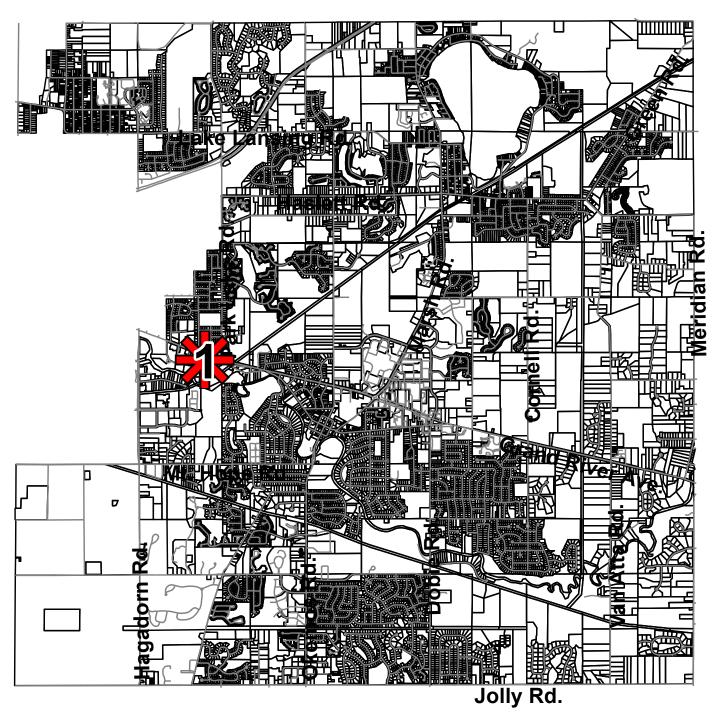
#### VARIANCE APPLICATION SUPPLEMENT

#### A variance will be granted, if the following Review Criteria are met:

- 1. Unique circumstances exist that are peculiar to the land or structure that are not applicable to other land or structures in the same zoning district.
- 2. These special circumstances are not self-created.
- 3. Strict interpretation and enforcement of the literal terms and provisions of this chapter would result in practical difficulties.
- 4. That the alleged practical difficulties which will result from a failure to grant the variance would unreasonably prevent the owner from using the property for a permitted purpose.
- 5. Granting the variance is the minimum action that will make possible the use of the land or structure in a manner which is not contrary to the public interest and which would carry out the spirit of this zoning ordinance, secure public safety, and provide substantial justice.
- 6. Granting the variance will not adversely affect adjacent land or the essential character in the vicinity of the property.
- 7. The conditions pertaining to the land or structure are not so general or recurrent in nature as to make the formulation of a general regulation for such conditions practicable.
- 8. Granting the variance will be generally consistent with public interest and the purposes and intent of this Chapter.

G:\Community Planning & Development\Planning\FORMS\VARIANCE APPLICATION SUPPLEMENT-review criteria only.docx

# Meridian Township



Location Map
1. ZBA #21-06-23-1 (EROP, LLC)





To: Zoning Board of Appeals

From: Keith Chapman, Assistant Planner

Date: June 18, 2021

Re: ZBA Case No. 21-06-23-1 (EROP, LLC)

ZBA CASE NO.: 21-06-23-1 (EROP, LLC), 2390 E. Federal Drive, Decatur, IL 62526

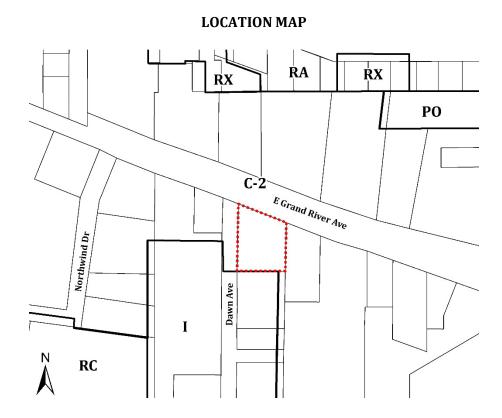
**LOCATION:** 2703 Grand River Avenue

PARCEL ID: 20-203-012
ZONING DISTRICT: C-2 (Commercial)

The applicant is requesting variances from the following sections of the Code of Ordinances:

- Section 86-402(1)(a), Front yards. Minimum yard dimensions shall be in accordance with the
  setback requirements of the Master Plan for Major Streets and Highways, Meridian Charter
  Township, Ingham County, Michigan, for the type of street upon which the lot principally
  fronts. For corner lots, each side abutting the street shall be considered frontage and shall
  comply with the setback requirements of the Master Plan for Major Streets and Highways. The
  front yard setback of Grand River Avenue is 100 feet from the centerline of the right-of-way.
- Section 86-756(11), Adjoining a public street. Where a parking area, or its associated internal access or service drives, adjoins a public street, except parking areas on individual residential driveways, a landscaped buffer at least 20 feet wide shall be provided between the parking area and the adjacent right-of-way, as measured from the back of the parking lot curb to the right-of-way line. A vertical screen, consisting of a masonry wall, plant material, a landscaped earth berm, or a combination thereof, as appropriate for the site, no less than three feet in height, shall be provided to screen the parking area from view along the entire length of this buffer strip. Plantings in this buffer area shall be maintained in a healthy condition.
- Section 86-758(2). Building perimeter landscaping. Parking areas and driveways shall be separated from the exterior wall of a building, exclusive of pedestrian entrance ways or loading areas, by a landscaped planting area of at least four feet in width. A minimum of 50% of this landscaped area, at time of planting, shall be planted with grass, ground cover, shrubs, or other living vegetation.

EROP, LLC, the applicant, is requesting variances to construct a drive through car wash facility at 2703 Grand River Avenue. A Special Use Permit (SUP #21031) was granted at the May 10, 2021 Planning Commission meeting to allow for the construction of a 3,300 square foot drive through car wash facility. The existing 2,873 square foot building that previously contained Paul Revere's Tavern will be demolished. The 0.88 acre subject property is zoned C-2 (Commercial) and is located at the southeast corner of Grand River Avenue and Dawn Avenue.



The submitted site plan shows the existing building has an 80.8 foot front yard setback from the centerline of Grand river Avenue right-of-way. Section 86-402(1)(a) of the Zoning Ordinance requires 100 feet from the centerline of Grand River Avenue right-of-way for principal arterial streets. The proposed building will be located approximately 27.5 feet from the from street right-of-way line of Grand River Avenue.

The parking lot landscape buffer along Grand River Avenue is shown at 3.8 feet. A 20 foot parking lot landscape buffer is required by Section 86-756(11) of the Zoning Ordinance. This is measured from the back of the curb of the parking lot to the street right-of-way line. The landscape buffer is required to contain a vertical screen, consisting of a masonry wall, plant material, a landscaped earth berm, or a combination thereof, no less than three feet in height, to screen the parking area from view along the entire length of this buffer strip.

Section 86-758(2) of the Zoning Ordinance requires a four foot landscape buffer to be located between the west side of the building and the parking lot. Inside of this landscape buffer a minimum of 50% of this landscaped area must be planted with grass, ground cover, shrubs, or other living vegetation. The submitted plan shows a 0 foot landscape buffer between the building and the parking lot.

#### ZBA Case No. 21-06-23-1 (EROP, LLC) Zoning Board of Appeals (June 23, 2021) Page 3

The following table summarizes the variance requests:

Ordinance Section	C-2 (Commercial) Requirements	Proposed	Variance Requested
Front Yard Setback Section 86-402(1)(a)	100 feet from C/L of Grand River Ave.	80.8 feet	19.2 feet
Parking Lot Landscape Buffer Section 86-756(11)	20 feet	3.8 feet	16.2 feet
Building Perimeter Landscape Buffer Section 86-758(2)	4 feet	0 feet	4 feet

#### **Attachments**

- 1. Variance application, dated March 1, 2021 and received by the Township on May 17, 2021.
- 2. Site Plan prepared by Stonefield Engineering & Design, dated May 17, 2021 and received by the Township on May 17, 2021.

G:\ COMMUN PLNG & DEV\PLNG\ZBA\2021 ZBA\ZBA 21-06-23\ZBA 21-06-23-1 (EROP, LLC)\ZBA 21-06-23-1 staff report

#### CHARTER TOWNSHIP OF MERIDIAN PLANNING DIVISION 5151 MARSH ROAD, OKEMOS, MI 48864 (517) 853-4560

#### **VARIANCE APPLICATION**

A.	Applica	ant	dress of Applicant									
				 Telepho	one (Work)							
		Telepho	one (Home)	Fax	Email							
	address Tenant	S:	Intere	Faxest in property (circle one)	): Owner							
	renant	Option	Other									
B.	Site ado	dress/location Parcel r			_ Zoning district							
		Faiteri	iuiiibei	<del></del>								
C.		of request (Please of		oly):								
		Request for variance			11 11 6.1 6.1 6							
		Request for interpolation Ordinances	retation of provi	sion(s) of the "Zoning Oro	linance" of the Code of							
				cision, or a determination								
		charged with inter the Code of Ordina		cing the provisions of the	e "Zoning Ordinance" of							
Zonin	g Ordina	nce section(s)										
D.	Require	ed Supporting Mate	rial Supj	porting Material if Applica	ble							
		rty survey		-Architectural sketche								
	-	-Legal description -Other										
	-Proof	-Proof of property ownership or										
		val letter from owne	er									
	-	an to scale										
	-Writte next p		demonstrates h	ow all the review criteria	will be met (See							
0		pagej										
XX (	Justine											
Signa	ture of Ap	pplicant	Print Name		Date							
Fee: _			Rece	eived by/Date:								
/	(we) her	eby grant permissio	on for members (	of the Charter Township o	of Meridian Zoning							
				and the Township's r								
-		_		escribed property (or as								
				for the purposes of gath								
				use of photographs. (Note	e to Applicant(s):							
	-		ffect any decisio	on on your application.)								
	Jeff Justine	_										
Sign	ature of A	Applicant(s)		Date								
Sign	ature of A	Applicant(s)		Date								

#### VARIANCE APPLICATION SUPPLEMENT

#### A variance will be granted, if the following Review Criteria are met:

- 1. Unique circumstances exist that are peculiar to the land or structure that are not applicable to other land or structures in the same zoning district.
- 2. These special circumstances are not self-created.
- 3. Strict interpretation and enforcement of the literal terms and provisions of this chapter would result in practical difficulties.
- 4. That the alleged practical difficulties which will result from a failure to grant the variance would unreasonably prevent the owner from using the property for a permitted purpose.
- 5. Granting the variance is the minimum action that will make possible the use of the land or structure in a manner which is not contrary to the public interest and which would carry out the spirit of this zoning ordinance, secure public safety, and provide substantial justice.
- 6. Granting the variance will not adversely affect adjacent land or the essential character in the vicinity of the property.
- 7. The conditions pertaining to the land or structure are not so general or recurrent in nature as to make the formulation of a general regulation for such conditions practicable.
- 8. Granting the variance will be generally consistent with public interest and the purposes and intent of this Chapter.

#### **Effect of Variance Approval:**

- 1. Granting a variance shall authorize only the purpose for which it was granted.
- 2. The effective date of a variance shall be the date of the Zoning Board of Appeals approves such variance.
- 3. A building permit must be applied for within 24 months of the date of the approval of the variance, and a Certificate of occupancy must be issued within 18 months of the date the building permit was issued, otherwise the variance shall be null and void.

#### **Reapplication:**

1. No application for a variance, which has been denied wholly or in part by the Zoning Board of Appeals, shall be resubmitted until the expiration of one (1) year or more from the date of such denial, except on grounds of newly discovered evidence or proof of changed conditions found by the Zoning Board of Appeals to be sufficient to justify consideration.

# **STONEFIELD**

May 17, 2021

Charter Township of Meridian Planning Division 5151 Marsh Road Okemos, MI 48864

RE: Zoning Board of Appeals Approval Proposed Car Wash PARCEL ID: 33-02-02-20-203-012 2703 E Grand River Avenue Meridian Twp, MI

To Whom It May Concern:

Stonefield Engineering & Design, LLC is pleased to submit documents for Zoning Board of Appeals Approval for the above refenced property. Please find the following items enclosed for review:

ITEM DESCRIPTION	DATED	COPIES	PREPARED BY
Site Development Plans	05-17-2021	1	Stonefield Engineering & Design
Variance Application	03-01-2021	1	EROP, LLC
A check for \$450.00 Zoning Board of Appeals Fee	05-18-2021	1	Stonefield Engineering & Design

The following variances are being requested with written confirmation that all Review Criteria are met:

- Minimum Front Yard Setback (Grand River Arterial): Required 100 ft, Existing 52.3 ft, Proposed 80.8 ft
  - 1. Unique circumstances exist that are peculiar to the land or structure that are not applicable to other land or structures in the same zoning district.
    - The existing parcel shape and size create difficulty for a development to have adequate site circulation.
  - 2. These special circumstances are not self-created.
    - The parcel is existing in its shape and size.
  - 3. Strict interpretation and enforcement of the literal terms and provisions of this chapter would result in practical difficulties.

    The existing parcel shape and size create difficulty for a development to have adequate site circulation.
  - 4. That the alleged practical difficulties which will result from a failure to grant the variance would unreasonably prevent the owner from using the property for a permitted purpose.
    - The use is approved by the Township and without approval of the variance the site would not allowed to be adequiately circulated for the use.
  - 5. Granting the variance is the minimum action that will make possible the use of the land or structure in a manner which is not contrary to the public interest and which would carry out the spirit of this zoning ordinance, secure public safety, and provide substantial justice.
    - The existing site layout encroaches on this setback more severely than the proposed condition, the granting of this variance will not go against public interest and which would carry out the spirit of the zoning ordinance, secure public safety, and provide substantial justice.
  - 6. Granting the variance will not adversely affect adjacent land or the essential character in the vicinity of the property.

    The existing site layout encroaches on this setback more severely than the proposed condition, improving this will not adversely affect adjacent land or the characted in the vicinity of the property.
  - 7. The conditions pertaining to the land or structure are not so general or recurrent in nature as to make the formulation of a general regulation for such conditions practicable.
    - The condition is unique to this parcel and is not so general or recurrent in nature as to maket he formulation of a general regulation for sunch conditions.



- 8. Granting the variance will be generally consistent with public interest and the purposes and intent of this Chapter.

  The existing site layout encroaches on this setback more severely than the proposed condition, improving this will be generally consistent with public interest and the purpose of the intent of the ordinance.
- Minimum ROW Buffer (Grand River): Required 20 ft, Existing 0.0 ft, Proposed 3.8 ft
  - I. Unique circumstances exist that are peculiar to the land or structure that are not applicable to other land or structures in the same zoning district.
    - The existing parcel shape and size create difficulty for a development to have adequate site circulation.
  - 2. These special circumstances are not self-created.
    - The parcel is existing in its shape and size.
  - 3. Strict interpretation and enforcement of the literal terms and provisions of this chapter would result in practical difficulties.

    The existing parcel shape and size create difficulty for a development to have adequate site circulation.
  - 4. That the alleged practical difficulties which will result from a failure to grant the variance would unreasonably prevent the owner from using the property for a permitted purpose.
  - The use is approved by the Township and without approval of the variance the site would not allowed to be adequiately circulated for the use.
  - 5. Granting the variance is the minimum action that will make possible the use of the land or structure in a manner which is not contrary to the public interest and which would carry out the spirit of this zoning ordinance, secure public safety, and provide substantial justice.
    - The existing site layout encroaches on this setback more severely than the proposed condition, the granting of this variance will not go against public interest and which would carry out the spirit of the zoning ordinance, secure public safety, and provide substantial justice.
  - 6. Granting the variance will not adversely affect adjacent land or the essential character in the vicinity of the property.

    The existing site layout encroaches on this setback more severely than the proposed condition, improving this will not adversely affect adjacent land or the characted in the vicinity of the property.
  - 7. The conditions pertaining to the land or structure are not so general or recurrent in nature as to make the formulation of a general regulation for such conditions practicable.
    - The condition is unique to this parcel and is not so general or recurrent in nature as to maket he formulation of a general regulation for sunch conditions.
  - 8. Granting the variance will be generally consistent with public interest and the purposes and intent of this Chapter.

    The existing site layout encroaches on this setback more severely than the proposed condition, improving this will be generally consistent with public interest and the purpose of the intent of the ordinance.
- Building Perimeter Landscaping: Required 4 ft planting area between parking and building wall, Proposed 0 ft
  - 1. Unique circumstances exist that are peculiar to the land or structure that are not applicable to other land or structures in the same zoning district.
    - Building foundation for the use is not condusive to plantings near the footings
  - 2. These special circumstances are not self-created.
    - The use requires plantings to be away from the foundation plantings to be added throughout site
  - Strict interpretation and enforcement of the literal terms and provisions of this chapter would result in practical difficulties.
     The code enforcement would impact foundation and building design which is practical difficulty for the use.
  - 4. That the alleged practical difficulties which will result from a failure to grant the variance would unreasonably prevent the owner from using the property for a permitted purpose.
    - The use is approved by the Township and without approval of the variance the building development is impacted.
  - 5. Granting the variance is the minimum action that will make possible the use of the land or structure in a manner which is not contrary to the public interest and which would carry out the spirit of this zoning ordinance, secure public safety, and provide substantial justice.
    - The building foundation and safety with the vaccums would be impacted without the variance being granted, additional plantings will be added throughout the site.-



- Granting the variance will not adversely affect adjacent land or the essential character in the vicinity of the property.
   Additional plantings are being proposed throughout the site, the adjacent land or essential character will not be impacted.
- 7. The conditions pertaining to the land or structure are not so general or recurrent in nature as to make the formulation of a general regulation for such conditions practicable.
  - The condition is unique to this use and layout and is not so general or recurrent in nature as to maket he formulation of a general regulation for sunch conditions.
- 8. Granting the variance will be generally consistent with public interest and the purposes and intent of this Chapter.

  Granting of the variance will be generally consistent with public interest and purposes and intent of this chapter as additional plantings are being proposed to meet the intent of the ordinance.

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

Best regards,

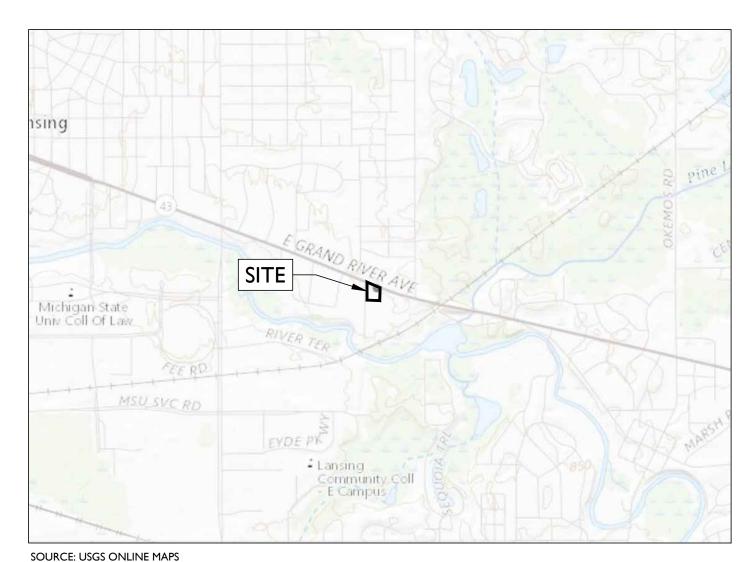
J. Reid Cooksey <u>icooksey@stonefieldeng.com</u>

Stonefield Engineering and Design, LLC

Erin McMachen emcmachen@stonefieldeng.com

Stonefield Engineering and Design, LLC

V:\DET\2020\DET-200226-Rainstorm Carwash-2703- East Grand River, East Lansing, MI\Correspondence\Outgoing\City or Township\Site Plan Submission Letter.docx



# **LOCATION MAP**

SCALE: I" =2,000'±

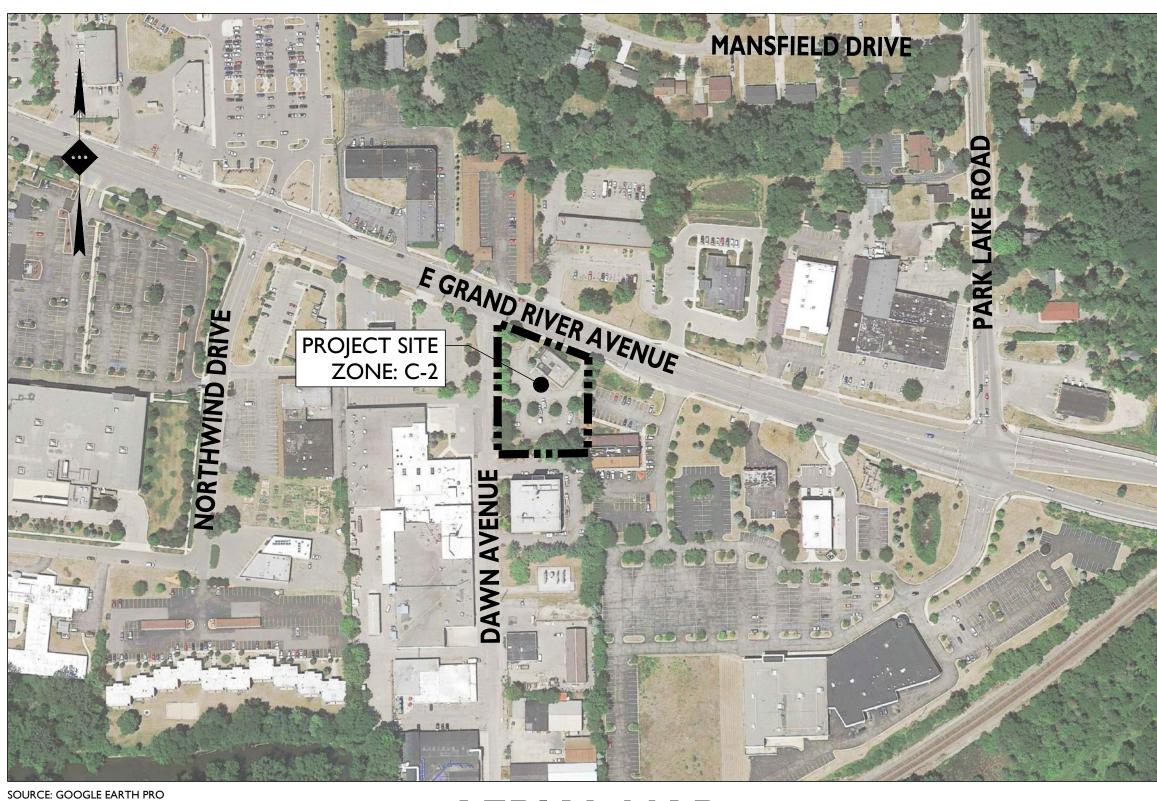
# SITE DEVELOPMENT PLANS

**FOR** 



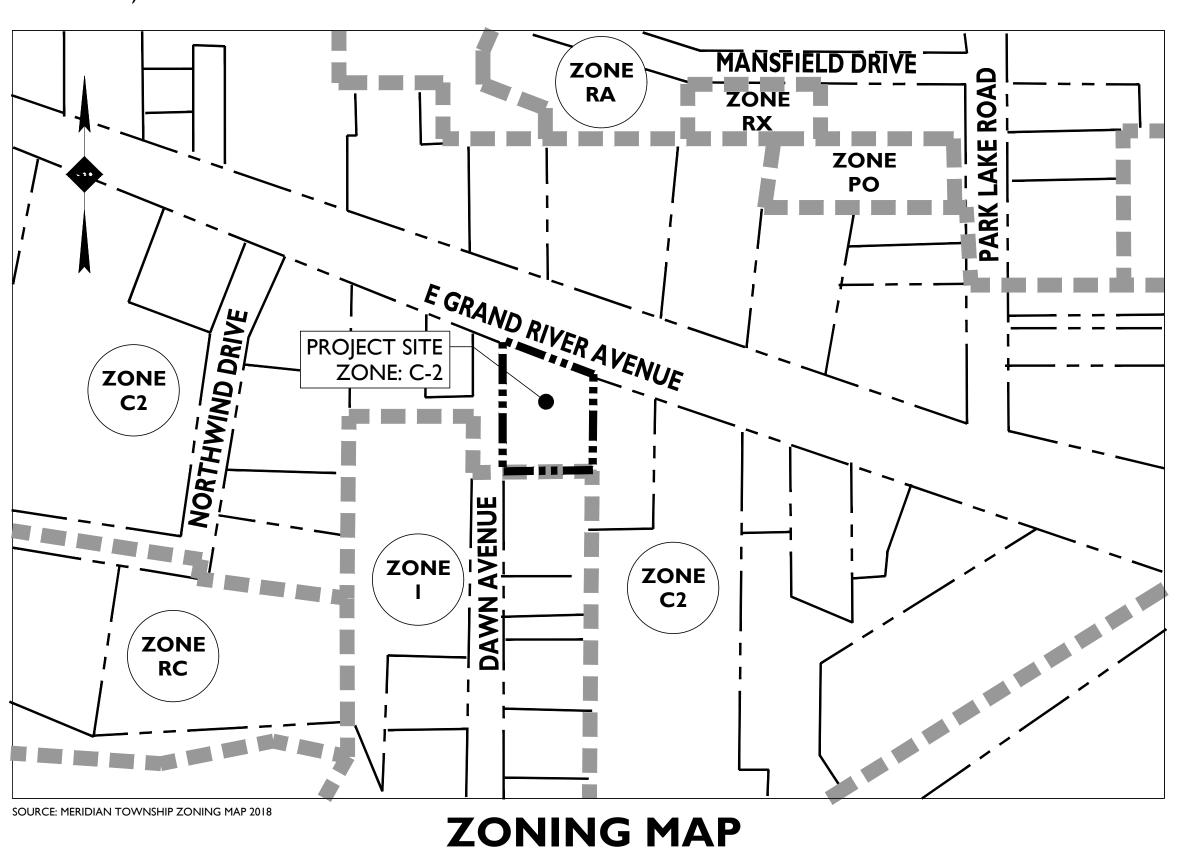
# PROPOSED CAR WASH

PARCEL ID: 33-02-02-20-203-012 2703 E GRAND RIVER AVENUE MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN



**AERIAL MAP** 

SCALE: I" = 200'±



SCALE: I" = 200'±

# PLANS PREPARED BY:

## **PROPERTY DESCRIPTION:**

LOCATED IN THE TOWNSHIP OF MERIDIAN, COUNTY OF INGHAM, STATE OF MICHIGAN AND DESCRIBED AS:

ALL OF LOTS 4, 5 AND 6, AND ALL OF LOT 7 EXCEPT THE SOUTH 60 FEET THEREOF, CEDAR RIVER HOMES, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 11, PAGE 30 (LIBER 31, PAGES 47 AND 48 PER WARRANTY DEED), INGHAM COUNTY RECORDS, ALSO BEING DESCRIBED AS: BEGINNING AT THE NORTHWEST CORNER OF SAID LOT 4, ALSO BEING THE INTERSECTION OF THE SOUTH RIGHT-OF-WAY LINE OF EAST GRAND RIVER AVENUE (M-43)(110' WIDE) AND THE EAST RIGHT-OF-WAY LINE OF DAWN AVENUE (50' WIDE); THENCE S. 70°00'00"E. 196.75 FEET (RECORDED AS 196.5 FEET) ALONG THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID E. GRAND RIVER AVE. TO THE NORTHEAST CORNER OF SAID LOT 6; THENCE S.01°26'33"E 172.42 FEET (RECORDED AS S.01°05'W. 172 FEET); THENCE 5.01 20 33 E 172.42 FEET (RECORDED AS 3.01 03 W. 172 FEET),
THENCE S.88°42'36"W. 183.13 FEET (RECORDED AS 183.5 FEET) TO A POINT
ON THE EAST RIGHT-OF-WAY LINE OF SAID DAWN AVE.; THENCE
N.01°26'33"W. 243.86 FEET (RECORDED AS N.01°05'E. 253.3 FEET) ALONG THE EAST RIGHT-OF-WAY LINE OF SAID DAWN AVE. TO THE POINT OF BEGINNING.





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

607 Shelby Suite 200, Detroit, MI 48226 Phone 248.247.1115

# **PLAN REFERENCE MATERIALS:**

- I. THIS PLAN SET REFERENCES THE FOLLOWING DOCUMENTS **INCLUDING, BUT NOT LIMITED TO:** 
  - ALTA / NSPS LAND TITLE SURVEY PREPARED BY **KEM-TEC DATED 02/21/2021**
  - ARCHITECTURAL PLANS PREPARED BY REB ARCHITECTS
  - AERIAL MAP OBTAINED FROM GOOGLE EARTH PRO
  - LOCATION MAP OBTAINED FROM USGS MAPS ONLINE

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	REVIE	W	IT	THOI	ROUGH	HLY	PRIOR	TO	THE	START	OF
	CONS	STRU	JCTIC	ON.							

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

ADDITIONAL SHEETS					
DRAWING TITLE	SHEET#				
ALTA / NSPS LAND TITLE SURVEY	I OF I				

			ECM / JRC ZONING BOARD OF APPEALS SUBMISSION	SITE PLAN SUBMISSION	FOR CLIENT REVIEW	DESCRIPTION
			ECM / JRC	ECM / JRC	ECM	ВҮ
			05/17/2021	03/26/2021	03/01/2021	DATE
			3	2	-	ISSUE

**APPLICANT** 

2390 E FEDERAL DRIVE

JEFFJ@RAINSTORMCARWASH.COM

**OREILLY AUTO ENTERPRISES LLC 2703 E GRAND RIVER AVENUE MERIDIAN TOWNSHIP, MI 48823** 

**DECATUR, IL 62526** 

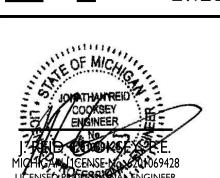
(215)-521-2348

**OWNER** 

NOT APPROVED FOR CONSTRUCTION







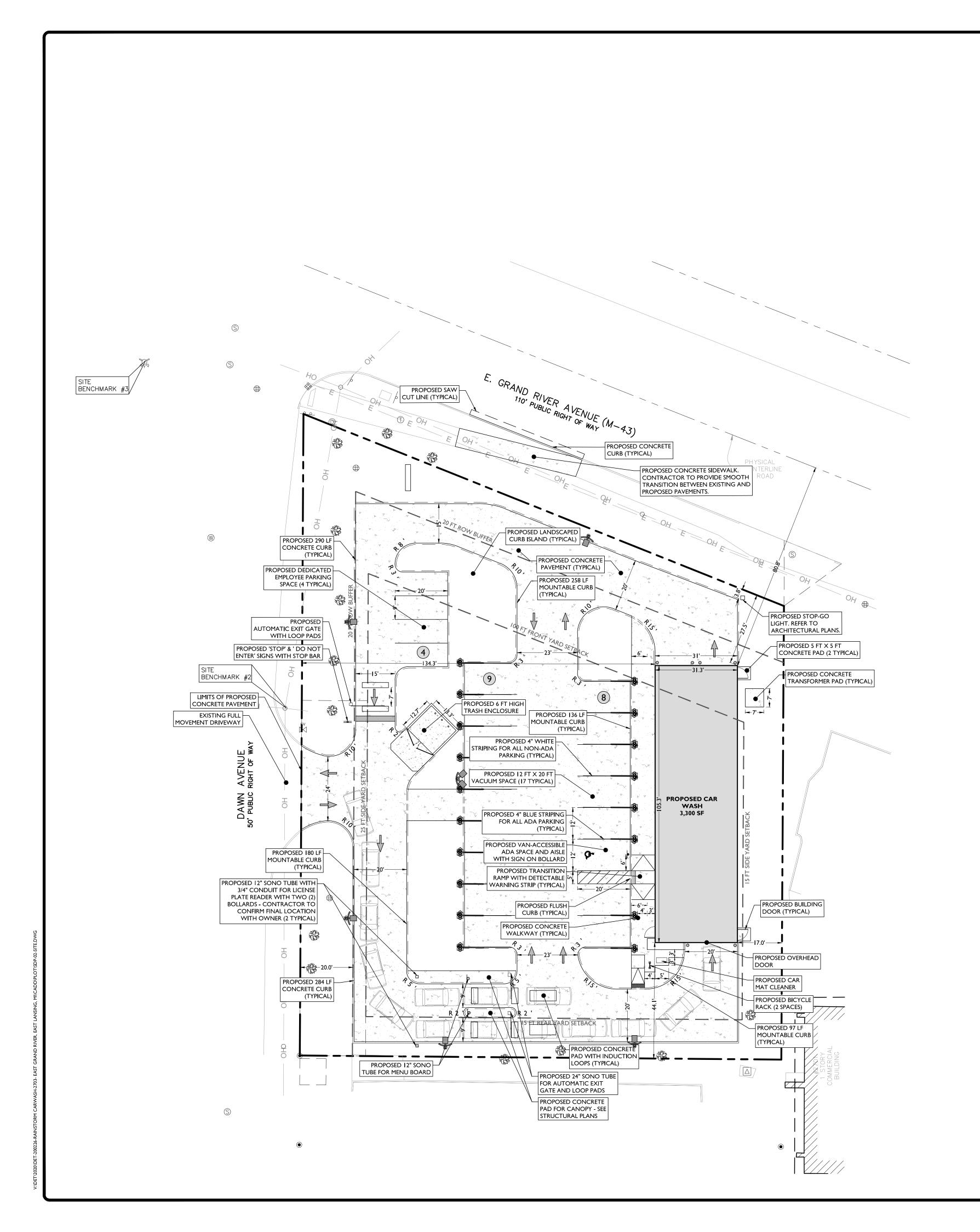


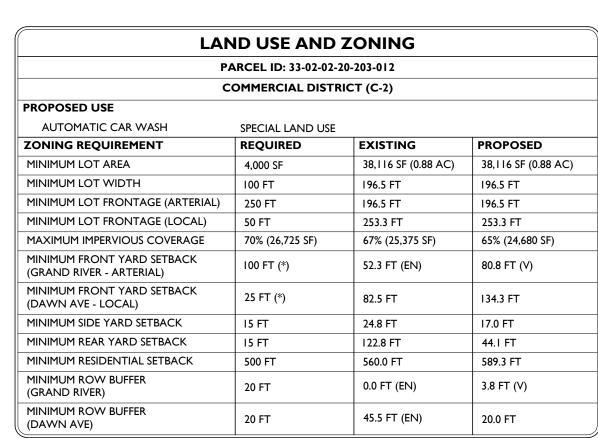
SCALE: AS SHOWN PROJECT ID: DET-200226

**COVER SHEET** 

DRAWING:

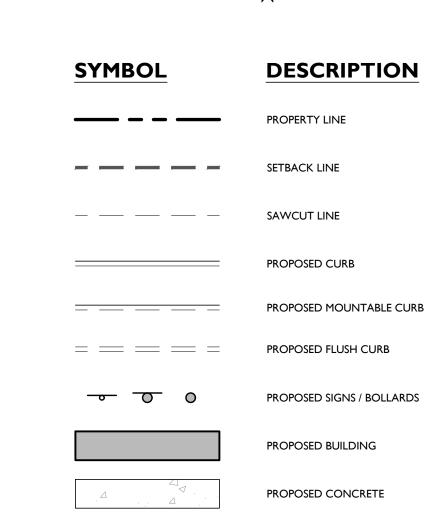
C-I





- (V) VARIANCE
- (EN) EXISTING NON-CONFORMITY
- VACUUMS NOT PERMITTED WITHIN FRONT YARD

OFF-S	OFF-STREET PARKING REQUIREMENTS						
CODE SECTION	REQUIRED	PROPOSED					
§ 86-755	REQUIRED DRIVE-IN AUTOMATIC CAR WASH PARKING:	15 STANDING SPACES					
	15 STANDING SPACES PER BAY						
	I SPACE PER 2 EMPLOYEES	4 PARKING SPACES					
	(4 EMP.)X(I SPACE / 2 EMP.) = 2 SPACE						
§ 86-756	DIMENSIONAL REQUIREMENTS:	90°: 12 FT X 20 FT					
	90°: 9 FT X 20 FT W/ 24 FT AISLE	W/ 23 FT AISLE					
	90°: 10 FT X 18 FT W/ 25 FT AISLE						
	90°: 10 FT X 20 FT W/ 23 FT AISLE	60°: 9 FT X 20 FT					
	60°: 9 FT X 20 FT W/ 15 FT AISLE	W/ I5 FT AISLE					
§ 86-760	REQUIRED BICYCLE PARKING:	2 SPACES					
	2 SPACES						

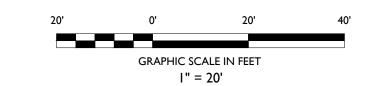


# **GENERAL NOTES**

- 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.
- 2. 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,
- 5. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND
- METHODS OF CONSTRUCTION. 6. 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.
- 7. 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. 8. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP
- FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC. WILL REVIEW THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS REFLECTED WITHIN THE PLAN SET.

DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS

- 9. 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.



						ZONING BOARD OF APPEALS SUBMISSI	SITE PLAN SUBMISSION	FOR CLIENT REVIEW	DESCRIPTION
						ECM / JRC	ECM / JRC	ECM	ВУ
						05/17/2021	03/26/2021	03/01/2021	DATE
						3	2		ISSUE
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PROPOSED AREA LIGHT

PROPOSED BUILDING DOORS



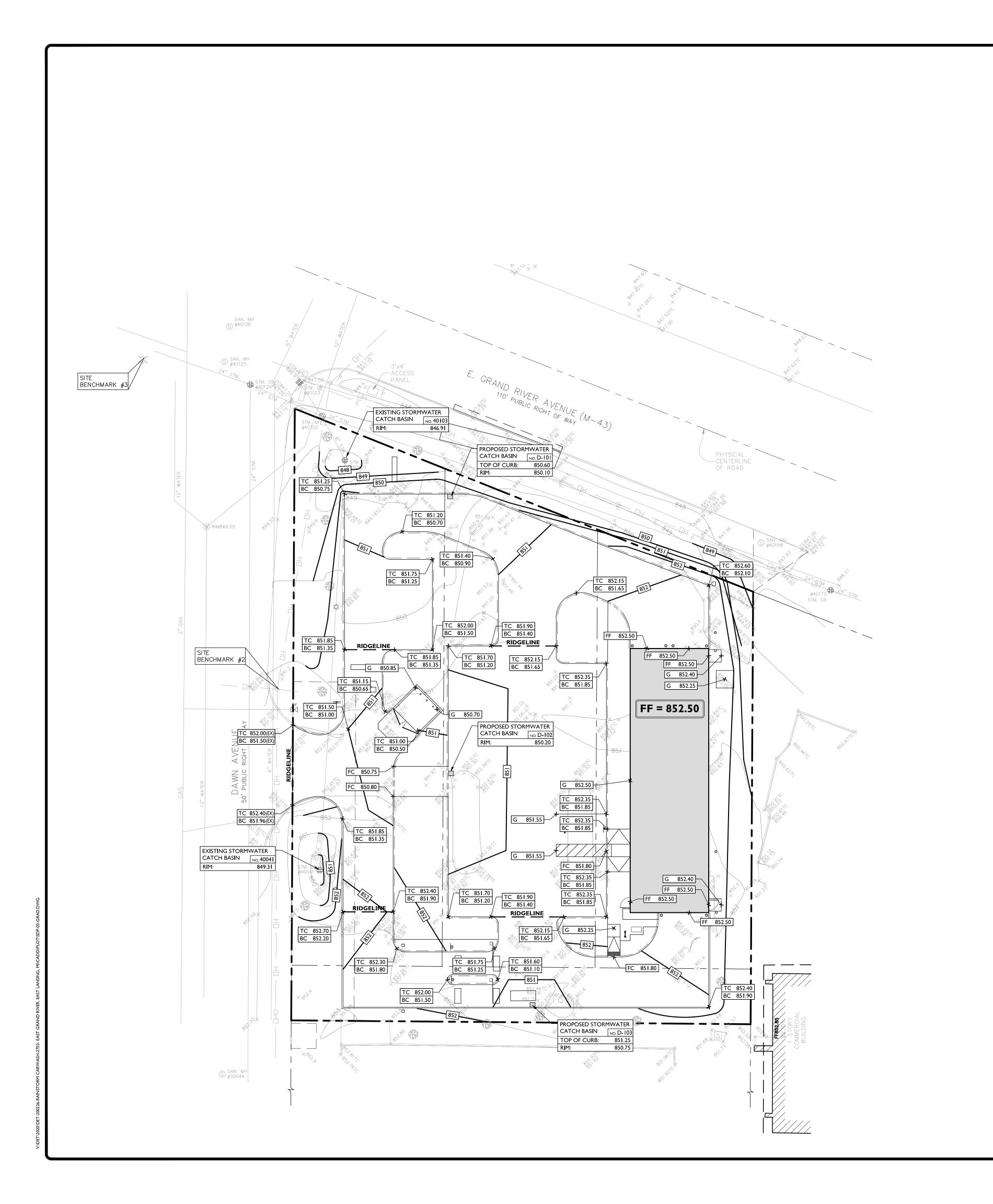




I" = 20' PROJECT ID: DET-200226

**SITE PLAN** 

DRAWING:





# SYMBOL **DESCRIPTION** PROPERTY LINE PROPOSED GRADING CONTOUR PROPOSED GRADING RIDGELINE RIDGELINE

**X** G 100.00 PROPOSED GRADE SPOT SHOT

PROPOSED DIRECTION OF DRAINAGE FLOW

PROPOSED TOP OF CURB /

PROPOSED FLUSH CURB SPOT SHOT

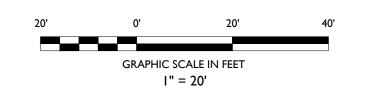
BOTTOM OF CURB SPOT SHOT **X** FC 100.00

#### **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 ALITHORITY REGULATIONS
- 5. MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS CURB GUTTER:
  - CONCRETE SURFACES: 1.00% ASPHALT SURFACES:
- 5. 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. 6. 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.

- I. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION WITHIN THE ADA PARKING SPACES AND ACCESS
- 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,
- 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.

CONTRACTOR SHALL ENSURE THAT THE TOP 1/4 INCH CHANGE IN

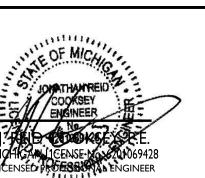


			ECM / JRC ZONING BOARD OF APPEALS	SITE PLAN SUBMISSION	FOR CLIENT REVIEW	DESCRIPTION
			ECM / JRC	ECM / JRC	ECM	ВY
			05/17/2021	03/26/2021	03/01/2021	DATE

# NOT APPROVED FOR CONSTRUCTION





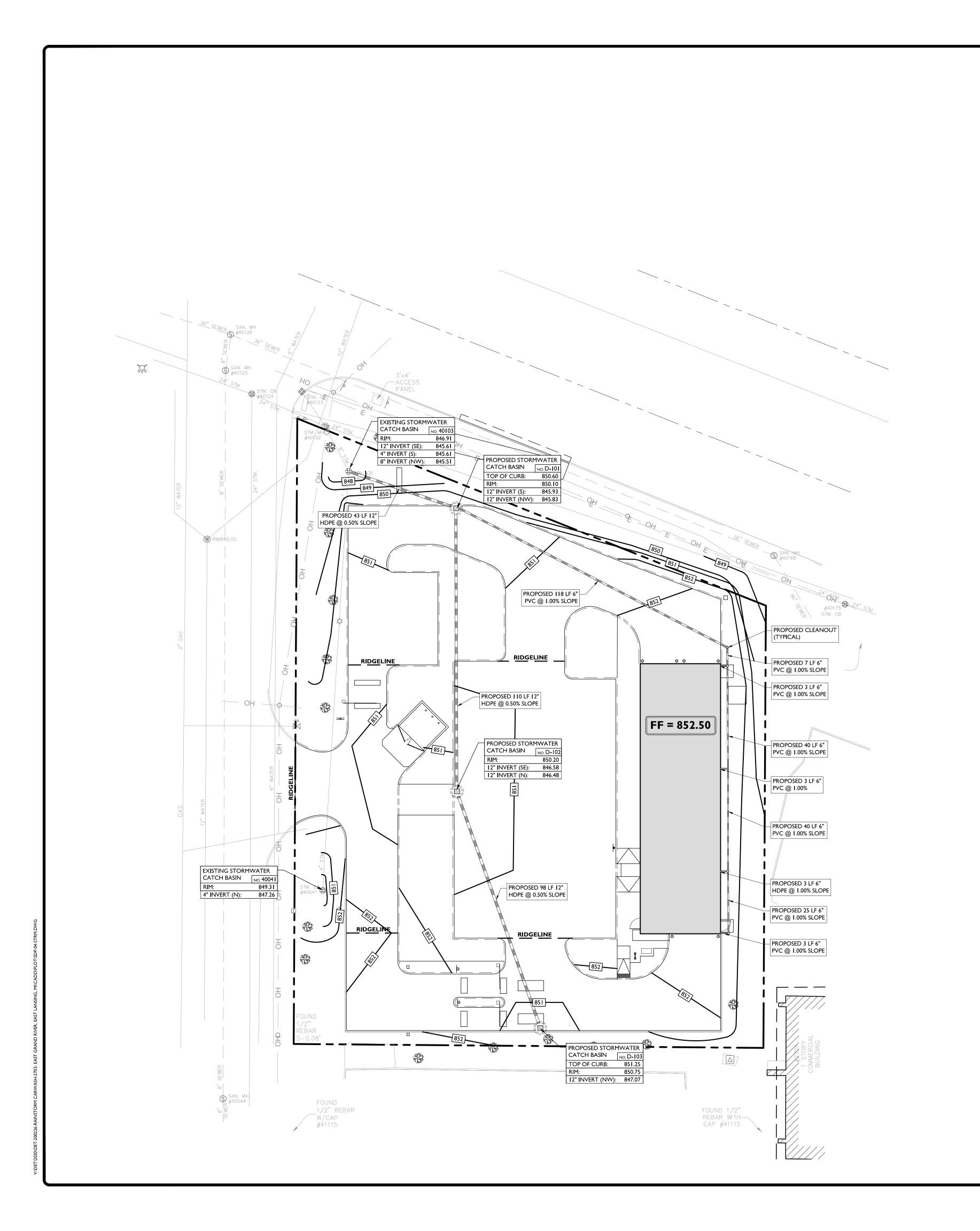


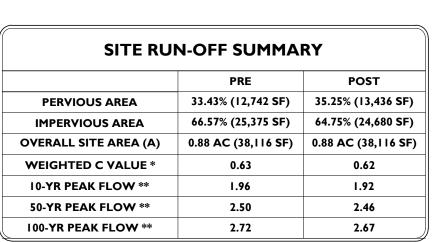


I" = 20' PROJECT ID: DET-200226

**GRADING PLAN** 

DRAWING:





- C-VAUES OBTAINED FROM MDOT TABLE 3-1
- STORMWATER INTENSITIES OBTAINED FROM MDOT APPENDIX 3-B, ZONE 9, WITH MINIMUM TIME OF CONCENTRATION = 15 MINUTES
- ROPOSED REDUCTION IN FLOW RATE TO MDOT SYSTEM. NO DETENTION REQUIRED.



#### **DRAINAGE AND UTILITY NOTES**

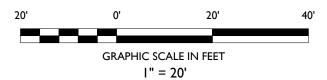
- I. THE CONTRACTOR TO PERFORM A TEST PIT PRIOR TO CONSTRUCTION (RECOMMEND 30 DAYS PRIOR) AT LOCATIONS OF EXISTING UTILITY CROSSINGS FOR STORMWATER IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY
- 3. THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION/EXCAVATION 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.
- 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
- I. THE CONTRACTOR IS REQUIRED TO REVIEW THE REFERENCED DOCUMENTS SHALL BE CONSIDERED A PART OF THE PLAN SET.
- GEOTECHNICAL ENGINEER OF RECORD. 3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHORING FOR OF CONSTRUCTION.
- WITH THE LATEST OSHA REGULATIONS. 5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DEWATERING DESIGN

## STORMWATER INFILTRATION BMP CONSTRUCTION NOTES

- I. PRIOR TO THE START OF CONSTRUCTION, ANY AREA DESIGNATED TO BE USED FOR AN INFILTRATION BMP (E.G. BASIN, BIORETENTION AREA, ETC.) SHALL BE FENCED OFF AND SHALL NOT BE UTILIZED AS STORAGE FOR CONSTRUCTION EQUIPMENT OR AS A STOCKPILE AREA FOR CONSTRUCTION MATERIALS. NO ACTIVITY SHALL BE PERMITTED WITHIN THE INFILTRATION BASIN AREA UNLESS RELATED TO THE CONSTRUCTION OF THE INFILTRATION BASIN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL
- WITH BASIN CONSTRUCTION TO ADHERE TO SEQUENCING
- LIMITATIONS. 5. DURING THE FINAL GRADING OF AN INFILTRATION BASIN, THE BOTTOM OF THE BASIN SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW AND THEN SMOOTHED OUT WITH A LEVELING DRAW OR EQUIVALENT GRADING EQUIPMENT. ALL GRADING EQUIPMENT SHALL BE LOCATED OUTSIDE OF THE BASIN
- 6. FOLLOWING CONSTRUCTION OF AN INFILTRATION BASIN, SOIL INFILTRATION TESTING BY A LICENSED GEOTECHNICAL ENGINEER IS REQUIRED TO CERTIFY COMPLIANCE WITH THE DESIGN INFILTRATION RATES IN ACCORDANCE WITH APPENDIX E OF THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION'S BEST MANAGEMENT PRACTICES MANUAL, LATEST EDITION. IF THE FIELD INFILTRATION RATES ARE LOWER THAN THE RATE USED DURING DESIGN, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING IMMEDIATELY TO DETERMINE THE APPROPRIATE COURSE OF ACTION.
- 7. THE CONTRACTOR SHALL NOTIFY THE MUNICIPALITY TO DETERMINE IF WITNESS TESTING IS REQUIRED DURING INFILTRATION BASIN EXCAVATION AND/OR SOIL INFILTRATION TESTING.

## STORMWATER UNDERGROUND BMP CONSTRUCTION NOTES

- SPECIFICATIONS.
- MINIMUM VOID RATIO OF 40%. A FIXED POSITION OVER THE BASIN.



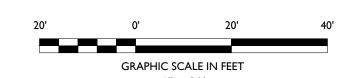
SYMBOL	DESCRIPTION
	PROPERTY LINE
100	PROPOSED GRADING CONTOUR
RIDGELINE	PROPOSED GRADING RIDGELINE
	PROPOSED STORMWATER STRUCTURES
	PROPOSED STORMWATER PIPING

- NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING. 2. CONTRACTOR SHALL START CONSTRUCTION OF STORM LINES AT THE LOWEST INVERT AND WORK UP-GRADIENT.
- 4. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.

#### **EXCAVATION, SOIL PREPARATION, AND DEWATERING NOTES**

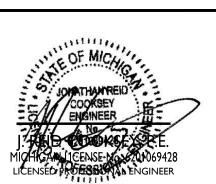
- GEOTECHNICAL DOCUMENTS PRIOR TO CONSTRUCTION, THESE 2. THE CONTRACTOR IS REQUIRED TO PREPARE SUBGRADE SOILS BENEATH ALL PROPOSED IMPROVEMENTS AND BACKFILL ALL EXCAVATIONS IN ACCORDANCE WITH RECOMMENDATIONS BY THE
- ALL EXCAVATIONS AS REQUIRED. CONTRACTOR SHALL HAVE THE SHORING DESIGN PREPARED BY A QUALIFIED PROFESSIONAL. SHORING DESIGNS SHALL BE SUBMITTED TO STONEFIELD ENGINEERING & DESIGN, LLC. AND THE OWNER PRIOR TO THE START
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL OPEN EXCAVATIONS ARE PERFORMED AND PROTECTED IN ACCORDANCE
- AND OPERATIONS, AS REQUIRED, TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS FOR DEWATERING OPERATIONS AND GROUNDWATER
- SUBCONTRACTORS OF BASIN AREA RESTRICTIONS.
- 2. THE CONTRACTOR SHALL MAKE EVERY EFFORT, WHERE PRACTICAL, TO AVOID SUBGRADE SOIL COMPACTION IN THE AREAS DESIGNATED TO BE USED FOR AN INFILTRATION BMP. 3. ALL EXCAVATION WITHIN THE LIMITS OF ANY INFILTRATION BMP
- SHALL BE PERFORMED WITH THE LIGHTEST PRACTICAL EXCAVATION EQUIPMENT. ALL EXCAVATION EQUIPMENT SHALL BE PLACED OUTSIDE THE LIMITS OF THE BASIN WHERE FEASIBLE. THE USE OF LIGHT-WEIGHT, RUBBER-TIRED EQUIPMENT (LESS THAN 8 PSI APPLIED TO THE GROUND SURFACE) IS RECOMMENDED WITHIN THE BASIN 4. THE SEQUENCE OF SITE CONSTRUCTION SHALL BE COORDINATED
- BOTTOM WHERE FEASIBLE.

- I. THE CONTRACTOR SHALL INSTALL AND BACKFILL THE UNDERGROUND BMP IN ACCORDANCE WITH THE MANUFACTURER'S
- 2. UNDERGROUND BASINS SHALL UTILIZE A STONE BACKFILL WITH A
- 3. NO CONSTRUCTION LOADING OVER UNDERGROUND BASINS IS PERMITTED UNTIL BACKFILL IS COMPLETE PER THE MANUFACTURER'S SPECIFICATIONS. NO VEHICLES SHALL BE STAGED OR OPERATE FROM



NOT APPROVED FOR CONSTRUCTION



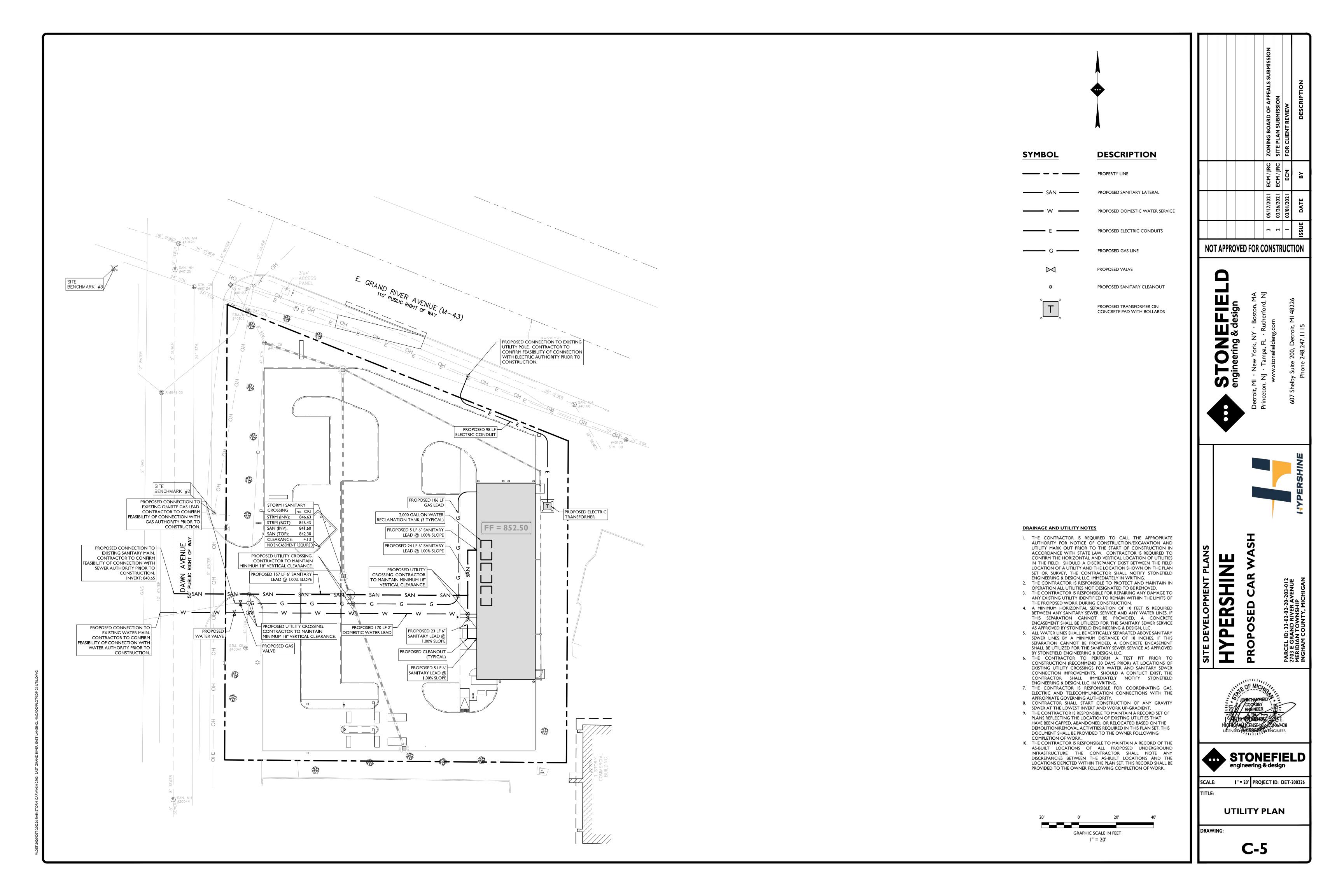


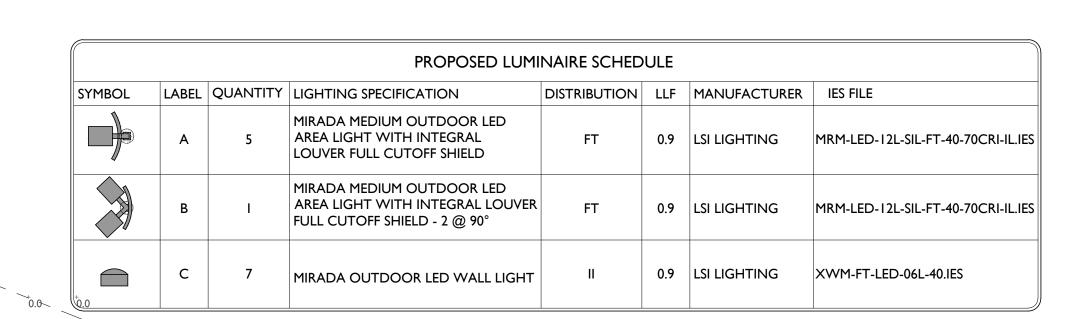


I" = 20' PROJECT ID: DET-200226

**STORMWATER MANAGEMENT PLAN** 

DRAWING:





LIGHTING REQUIREMENTS							
CODE SECTION	REQUIRED	PROPOSED					
§ 38-379.a	LUMINAIRES SHALL BE FULLY SHIELDED	PROVIDED					
§ 38-379.c	MAXIMUM LIGHT TRESSPASS: 1 FC	0.8 FC					
§ 38-379.g	MAXIMUM HEIGHT: 30 FT	30 FT					
§ 38-380.c	MAXIMUM LUMENS PER ACRE: 150,000 LUMENS	126,000 LUMENS					
§ 38-380.c	MAXIMUM ON SITE: 10 FC	9.1 FC					
§ 38-380.c	MAXIMUM WITHIN DRIVEWAYS: 3 FC	0.7 FC					

LIGHTING STATISTICS						
DESCRIPTION	AVERAGE	MINIMUM	MAXIMUM			
OVERALL SITE	1.37 FC	0.0 FC	8.9 FC			
DRIVEWAYS	0.13 FC	0.0 FC	0.4 FC			
PROPERTY LINE	0.18 FC	0.0 FC	0.8 FC			







**PROPOSED FIXTURE 'C'** 

# SYMBOL

### **DESCRIPTION**

PROPERTY LINE

PROPOSED LIGHTING FIXTURE

(MOUNTING HEIGHT)

PROPOSED AREA LIGHT

A (XX')

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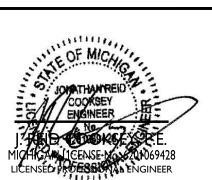
PROPOSED LIGHTING INTENSITY (FOOTCANDLES)

PROPOSED BUILDING MOUNTED LIGHT

NOT APPROVED FOR CONSTRUCTION



**YPERSHINE** 





I" = 20' PROJECT ID: DET-200226

LIGHTING PLAN

DRAWING:

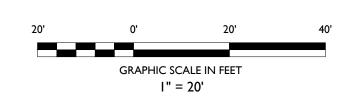
GENERA	L LIGHTIN	IG NOTE

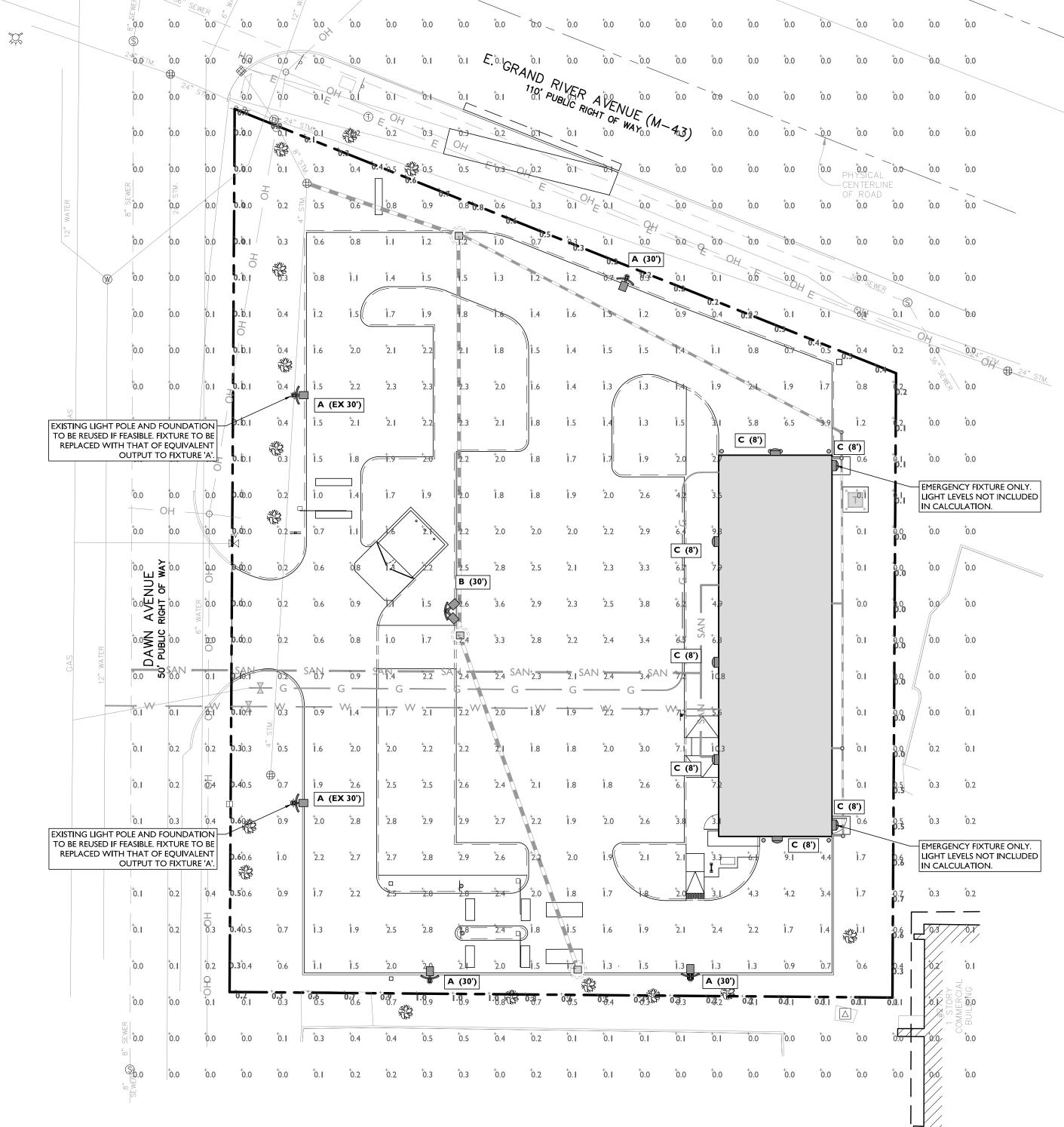
- I. THE LIGHTING LEVELS DEPICTED WITHIN THE PLAN SET ARE CALCULATED UTILIZING DATA OBTAINED FROM THE LISTED MANUFACTURER. ACTUAL ILLUMINATION LEVELS AND PERFORMANCE OF ANY PROPOSED LIGHTING FIXTURE MAY VARY DUE TO UNCONTROLLABLE VARIABLES SUCH ARE WEATHER, VOLTAGE SUPPLY, LAMP TOLERANCE, EQUIPMENT SERVICE LIFE AND OTHER
- VARIABLE FIELD CONDITIONS.

  2. 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.

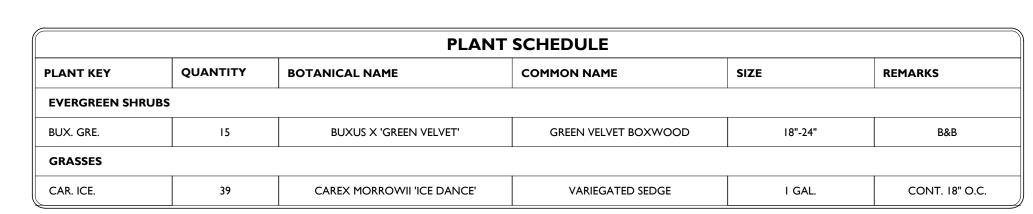
  3. UNLESS NOTED ELSEWHERE WITHIN THIS PLAN SET, THE LIGHT LOSS FACTORS USED IN THE LIGHTING ANALYSIS ARE AS FOLLOWS: LIGHT EMITTING DIODES (LED): 0.90
- HIGH PRESSURE SODIUM: ` METAL HALIDE:
   0.72

  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.









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

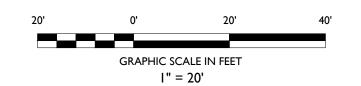
LANDSCAPING AND BUFFER REQUIREMENTS					
CODE SECTION	REQUIRED	PROPOSED			
§ 86-758.1	INTERIOR LANDSCAPING:				
	200 SF PER 10 PARKING SPACES				
	(18 SPACES) X (200 SF / 10 SPACES) = 360 SF	3,591 SF			
	TWO (2) CANOPY TREES PER 10 PARKING SPACES				
	(18 SPACES) X (2 TREES / 10 SPACES) = 4 TREES	10 EXISTING TREES			
	50% OF EACH LANDSCAPED AREA SHALL BE COVERED IN LIVING VEGETATION	PROVIDED			
§ 86-758.2	BUILDING PERIMETER LANDSCAPING:				
	4 FT PLANTING AREA BETWEEN PARKING AND BUILDING WALL (50% PLANTED)	VARIANCE REQUESTED*			

ADDITIONAL PLANTINGS ADDED TO THE SITE LANDSCAPE AREA FOR LOSS OF FOUNDATION PLANTINGS DUE TO FOUNDATION CONCERNS WITH PLANTINGS AS REQURIED

# LANDSCAPING NOTES

- I. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS
- INDICATED OTHERWISE WITHIN THE PLAN SET.

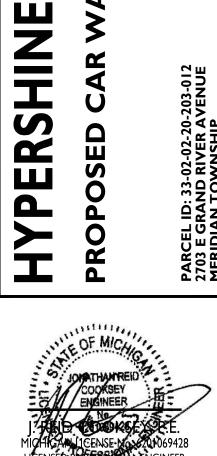
  THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED. 3. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM
- 3 INCH LAYER OF MULCH. 4. THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE 3 FEET HORIZONTAL TO 1 FOOT VERTICAL (3:1
- 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



					ZONING BOARD OF APPEALS SUBMISSION	SITE PLAN SUBMISSION	FOR CLIENT REVIEW	DESCRIPTION
					ECM / JRC	ECM / JRC	ECM	ВҮ
					05/17/2021	03/26/2021	03/01/2021	DATE
					3	2	I	ISSUE
APPROVED FOR CONSTRUCTION								





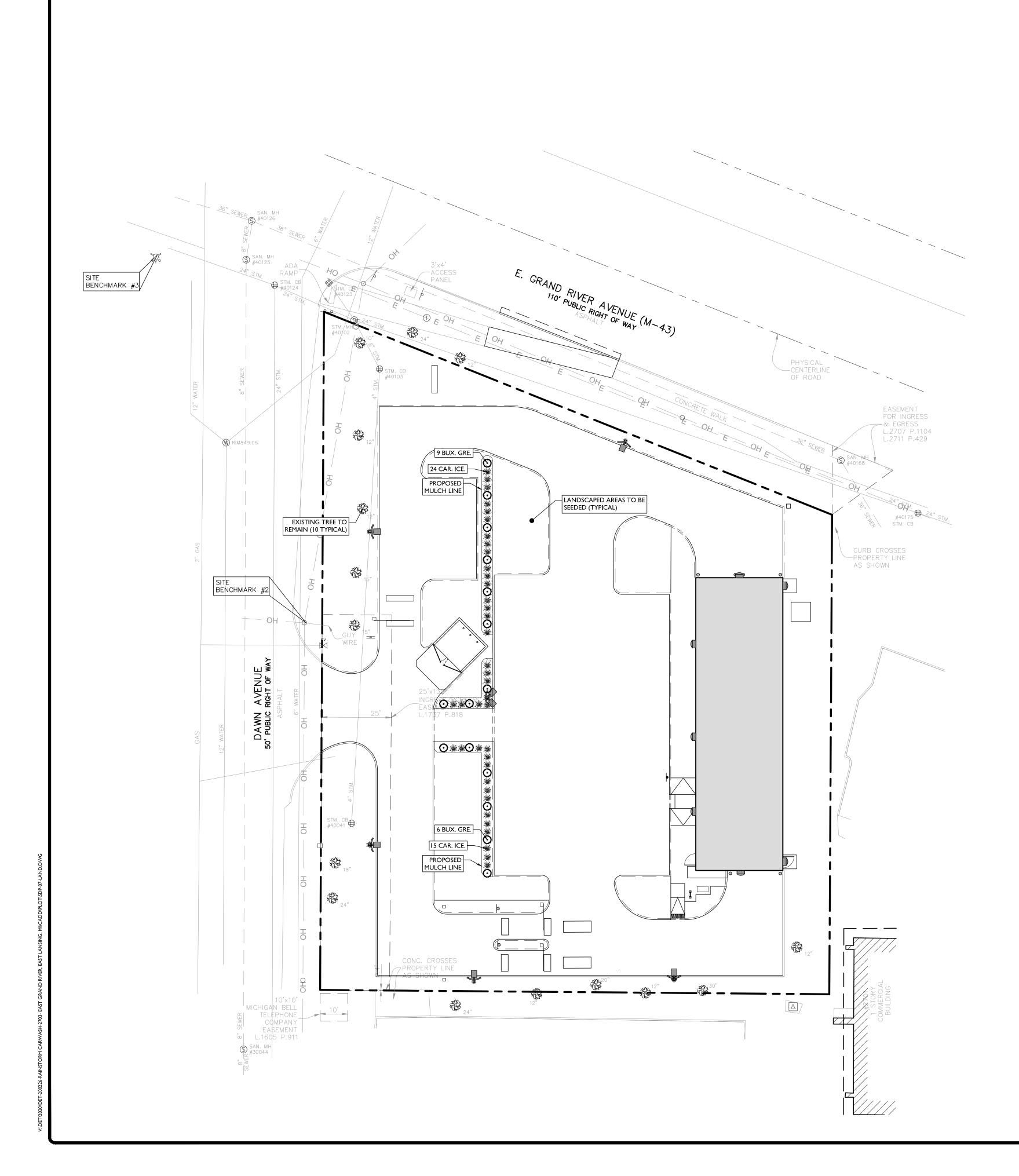


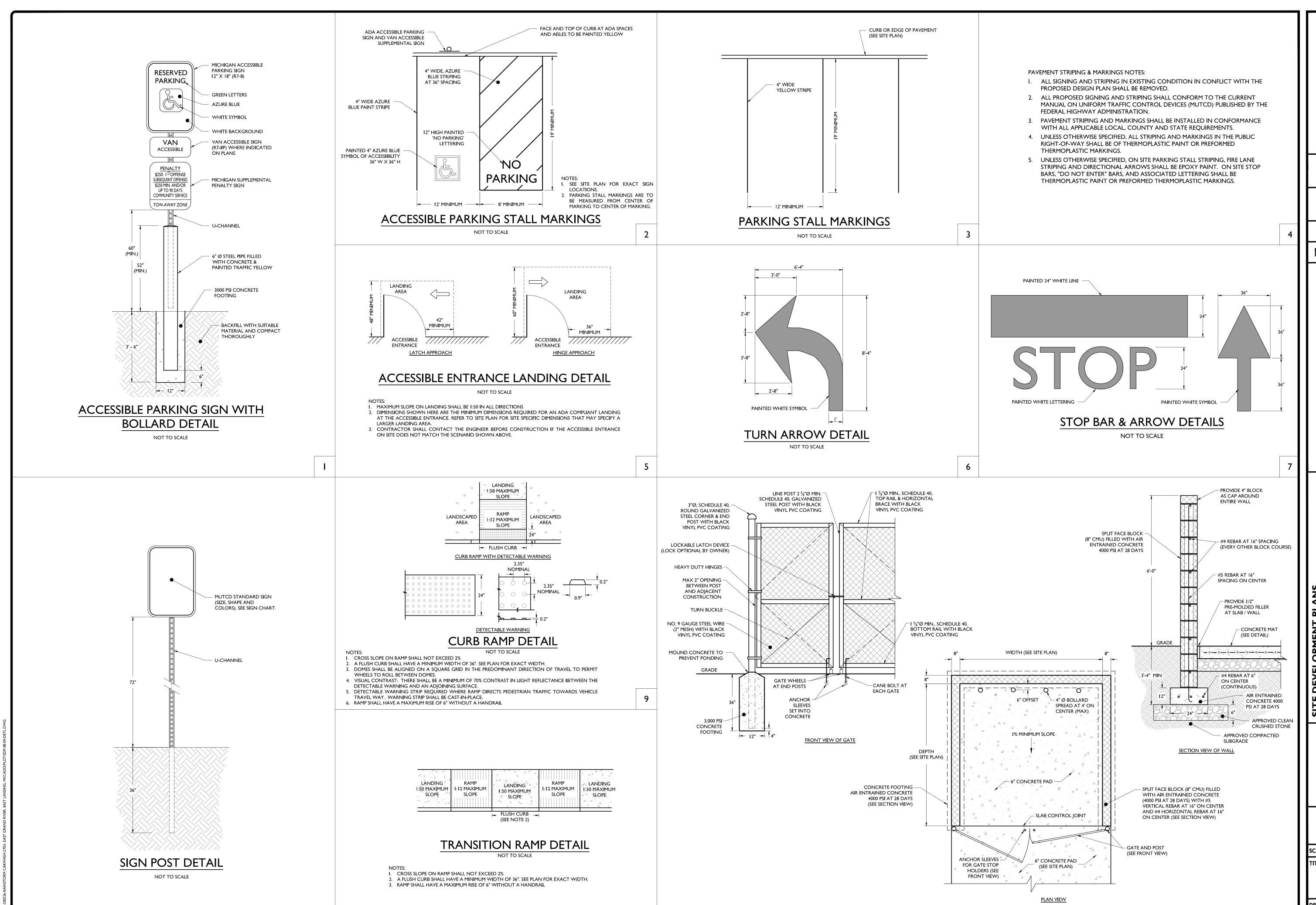


I" = 20' PROJECT ID: DET-200226

LANDSCAPING PLAN

DRAWING:





BLOCK COLOR TO MATCH BUILDING

OR AS SPECIFIED BY OWNER

3 05/17/2021 ECM / JRC ZONING BOARD OF APPEALS SUBMISSION
2 03/26/2021 ECM / JRC SITE PLAN SUBMISSION
1 03/01/2021 ECM FOR CLIENT REVIEW
ISSUE DATE BY DESCRIPTION

NOT APPROVED FOR CONSTRUCTION

EFFELD

design

Boston, MA

Rutherford, NJ

MI · New York, NY · Boston n, NJ · Tampa, FL · Rutherfor www.stonefieldeng.com

Detroit, MI · New Yornneton, NJ · Tamp

NE R WASH

POSED CAR W

PARCEL ID: 33-02-02 2703 E GRAND RIVE



SCALE: AS SHOWN PROJECT ID: DET-200226

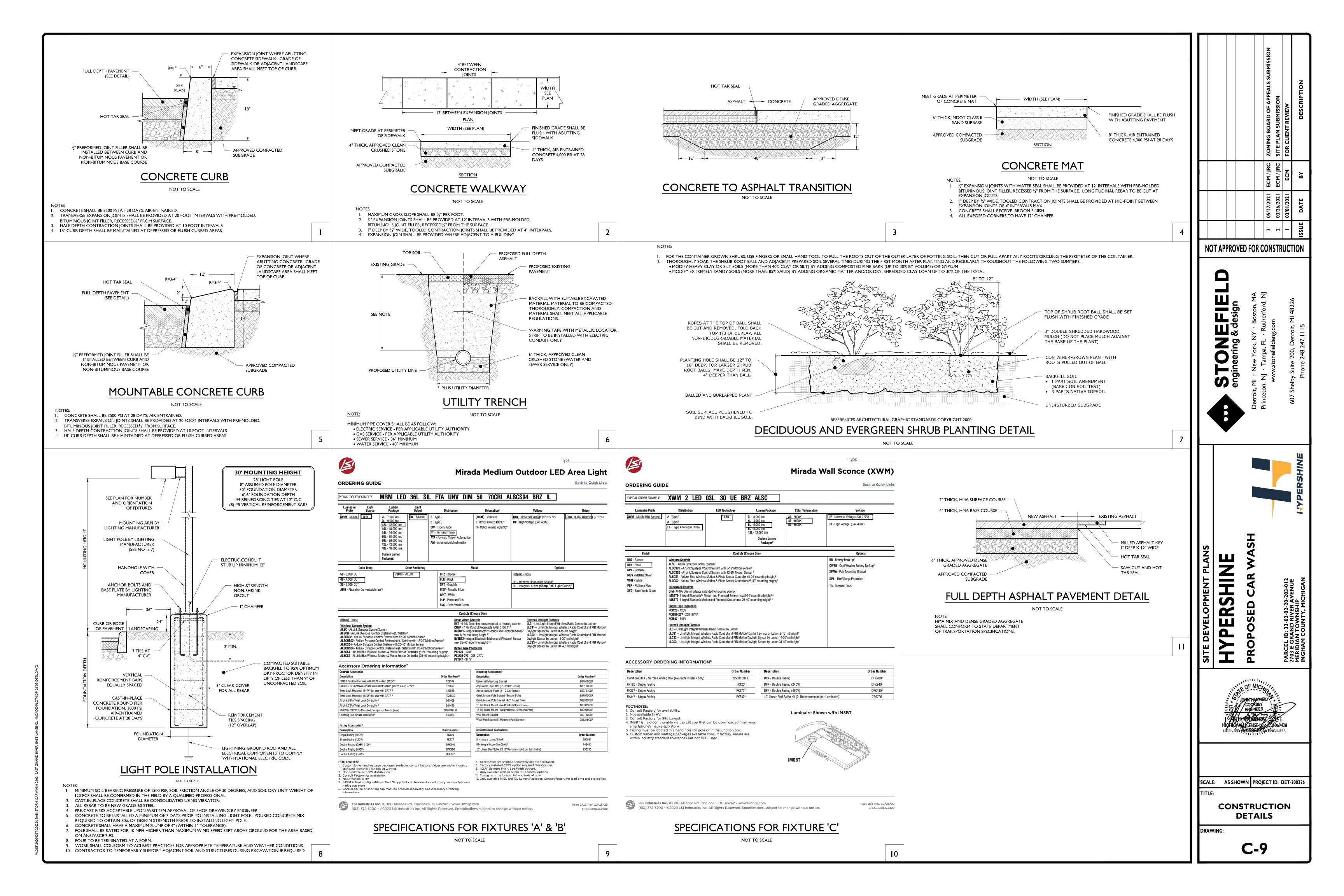
CONSTRUCTION DETAILS

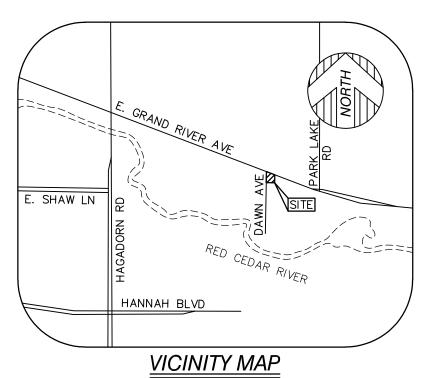
DRAWING:

TRASH / RECYCLE ENCLOSURE DETAIL

NOT TO SCALE

**C-8** 





(NOT TO SCALE)

**PARKING** 

NO MARKED PARKING ON SITE.

PARCEL AREA

 $38,116\pm$  SQUARE FEET =  $0.875\pm$  ACRES

BASIS OF BEARING

SOUTH 70°00'00" EAST, BEING THE SOUTH LINE OF E. GRAND RIVER AVE. AS PLATTED.

FLOOD NOTE

SUBJECT PARCEL LIES WITHIN:

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

AS SHOWN ON FLOOD INSURANCE RATE MAP: MAP NUMBER 26065C0152D, DATED 8/16/2011, PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT ÁGENCY.

**BENCHMARKS** 

SITE BENCHMARK #1

BASE OF LIGHT POLE, EAST SIDE OF PARKING LOT.

ELEVATION = 854.38' (NAVD 88)

SITE BENCHMARK #2
NAIL IN UTILITY POLE, NORTH SIDE OF ENTRANCE FROM DAWN AVE.

ELEVATION = 853.80' (NAVD 88)

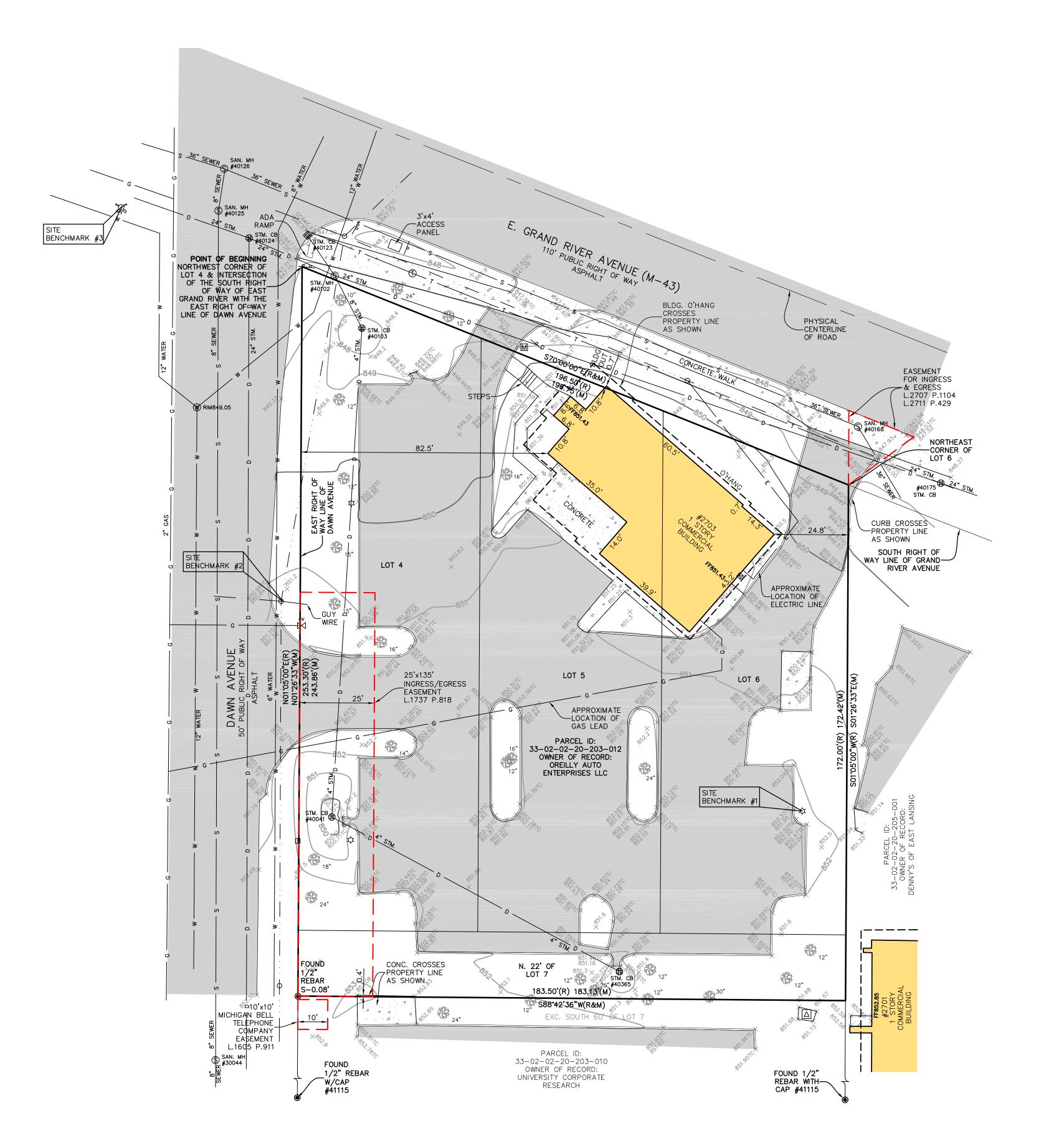
SITE BENCHMARK #3
ARROW ON FIRE HYDRANT, SOUTHWEST CORNER OF E GRAND RIVER & DAWN AVE. ELEVATION = 850.58' (NAVD 88)

SURVEYOR'S NOTE

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON.

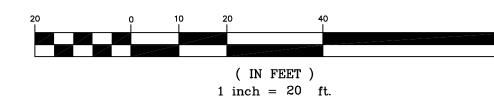
## LEGEND

<u>LEGEND</u>	
•	FOUND MONUMENT (AS NOTED)
(R&M)	RECORD AND MEASURED DIMENSION
(R)	RECORD DIMENSION
(M)	MEASURED DIMENSION
× <sup>0.00</sup>	GROUND ELEVATION
	ELECTRIC METER
	ELECTRIC PANEL
Δ	TRANSFORMER
0	UTILITY POLE
GV ⋈	GAS VALVE
$\bigcirc$	TELEPHONE MANHOLE
<b>S</b>	SANITARY MANHOLE
<b>⊕</b>	ROUND CATCH BASIN
Ħ	SQUARE CATCH BASIN
<b>©</b>	STORM DRAIN MANHOLE
X	FIRE HYDRANT
<b>®</b>	WATER GATE MANHOLE
<b>\$</b>	LIGHTPOST/LAMP POST
M	MAIL BOX
<del>- o -</del>	SINGLE POST SIGN
<del>- 0 0 -</del>	DOUBLE POST SIGN
	DECIDUOUS TREE (AS NOTED)
	PARCEL BOUNDARY LINE
	PLATTED LOT LINE
	ADJOINER PARCEL LINE
	EASEMENT LINE
	BUILDING
	CONCRETE CURB
	EDGE OF CONCRETE (CONC.)
	EDGE OF ASPHALT (ASPH.)
<del></del>	OVERTIE/O OTIETT EINE
т	
G	
s	
D	
w	WATER LINE
	MINOR CONTOUR LINE
	MAJOR CONTOUR LINE
	BUILDING AREA
	ASPHALT





GRAPHIC SCALE



#### PROPERTY DESCRIPTION

LOCATED IN THE TOWNSHIP OF MERIDIAN, COUNTY OF INGHAM, STATE OF MICHIGAN AND DESCRIBED AS:

ALL OF LOTS 4, 5 AND 6, AND ALL OF LOT 7 EXCEPT THE SOUTH 60 FEET THEREOF, CEDAR RIVER HOMES, MERIDIAN TOWNSHIP, INGHAM COUNTY, MICHIGAN, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 11, PAGE 30 (LIBER 31, PAGES 47 AND 48 PER WARRANTY DEED), INGHAM COUNTY RECORDS, ALSO BEING DESCRIBED AS: BEGINNING AT THE NORTHWEST CORNER OF SAID LOT 4, ALSO BEING THE INTERSECTION OF THE SOUTH RIGHT-OF-WAY LINE OF EAST GRAND RIVER AVENUE (M-43)(110' WIDE) AND THE EAST RIGHT-OF-WAY LINE OF DAWN AVENUE (50' WIDE); THENCE S. 70'00'00"E. 196.75 FEET (RECORDED AS 196.5 FEET) ALONG THE SOUTHERLY RIGHT-OF-WAY LINE OF SAID E. GRAND RIVER AVE. TO THE NORTHEAST CORNER OF SAID LOT 6; THENCE S.01'26'33"E 172.42 FEET (RECORDED AS S.01'05'W. 172 FEET); THENCE S.88'42'36"W. 183.13 FEET (RECORDED AS 183.5 FEET) TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF SAID DAWN AVE.; THENCE N.01°26'33"W. 243.86 FEET (RECORDED AS N.01°05'E. 253.3 FEET) ALONG THE EAST RIGHT-OF-WAY LINE OF SAID DAWN AVE. TO THE POINT OF BEGINNING.

### TITLE REPORT NOTE

ONLY THOSE EXCEPTIONS CONTAINED WITHIN THE STEWART TITLE GUARANTY COMPANY COMMITMENT No. 21000030151, DATED JANUARY 28, 2021, AND RELISTED BELOW WERE CONSIDERED FOR THIS SURVEY. NO OTHER RECORDS RESEARCH WAS PERFORMED BY THE CERTIFYING SURVEYOR.

12. TERMS, CONDITIONS, PROVISIONS AND EASEMENTS SET FORTH IN EASEMENT RECORDED IN LIBER 1605, PAGE 911. (AS SHOWN)

13. TERMS, CONDITIONS, PROVISIONS AND EASEMENTS SET FORTH IN GRANT OF EASEMENT RECORDED IN LIBER 1737, PAGE 818. (AS SHOWN)

14. TERMS, CONDITIONS, PROVISIONS AND EASEMENTS SET FORTH IN EASEMENT AGREEMENT RECORDED IN LIBER 2707, PAGE 1104 AND RE—RECORDED IN LIBER 2711, PAGE 429. (AS SHOWN)

# MANHOLE SCHEDULE

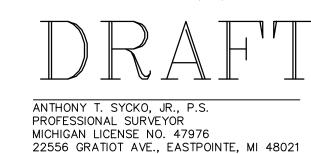
<u>#</u>	<u>TYPE</u>	<u>RIM</u>	SIZE	<b>DIRECTION</b>	<u>INVERT</u>
30044	SANITARY MH	852.28	8	N	842.32
		852.28	8	S	842.42
40041	BEEHIVE CATCHBASIN	849.31		T/WATER	847.01
		849.31	4	N	847.26
		849.31	4	SE	847.46
		849.31		B/CHAMBER	845.36
40102	STORM MANHOLE	848.78	24	SE	842.68
		848.78	24	NW	842.88
40103	BEEHIVE CATCHBASIN	846.91		T/DEBRIS	845.41
		846.91	4	S	845.61
		846.91	8	NW	845.51
40123	CATCHBASIN	846.94		T/WATER	844.54
40124	CATCHBASIN	847.59	24	SE	842.94
		847.59	24	NW	842.79
		847.59	24	S	842.89
40125	SANITARY MANHOLE	847.52	8	S	838.02
		847.52	8	N	837.92
40126	SANITARY MANHOLE	847.27	36	SE	832.17
		847.27	36	W	832.27
		847.27	8	S	PER PLAN
40168	SANITARY MANHOLE	847.71	36	NE	832.31
		847.71	36	SW	832.51
40175	CATCHBASIN	848.51	24	NE	841.81
		848.51	24	SW	841.91
40365	BEEHIVE CATCHBASIN	849.82		T/WATER	847.42
		849.82	4	NW	848.10
		849.82		B/CHAMBER	845.57

## SURVEYOR'S CERTIFICATION

TO EROP LLC, AN ILLINOIS LIMITED LIABILITY COMPANY D/B/A HYPERSHINE CAR WASH AND STEWART TITLE GUARANTY COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDED ITEMS 1, 2, 3, 4, 5, 7A, 8, 9, AND 11 OF TABLE A, THEREOF. THE FIELD WORK WAS COMPLETED ON 11/24/2020.

DATE OF PLAT OR MAP: 12/04/2020



TSycko@kemtec-survey.com

TITLE SURI NGINEERING AND E

1 OF 1 SHEETS