

## **Planning Commission**

Michael Mitchell, Vice-Chairperson Michelle LaRose, Commissioner

Larry Fox, Chairperson Summer L. McMullen, Trustee Keith Voight, Secretary Sue Grissim, Commissioner Tom Murphy, Commissioner

**Planning Commission Meeting Agenda Hartland Township Hall** Thursday, October 14, 2021 7:00 PM

- Call to Order
- Pledge of Allegiance
- 3. Roll Call
- Approval of the Agenda
- Approval of Meeting Minutes
  - a. Planning Commission Meeting Minutes of July 8, 2021
  - b. Planning Commission Meeting Minutes of September 23, 2021
- Call to Public
- Old and New Business
  - a. Site Plan Application #21-014 Multi-tenant building with drive-through window (Hartland Towne Square PD)
- Call to Public
- Planner's Report
- 10. Committee Reports
- 11. Adjournment

#### HARTLAND TOWNSHIP PLANNING COMMISSION DRAFT REGULAR MEETING MINUTES

July 8, 2021 - 7:00 p.m.

1. Call to Order: Chair Fox called the meeting to order at approximately 7:00 p.m.

#### 2. Pledge of Allegiance:

#### 3. Roll Call and Recognition of Visitors:

Present - Commissioners Fox, Grissim, McMullen, Mitchell, Murphy, Voight

Absent – Commissioner LaRose

#### 4. Approval of the Agenda:

A Motion to approve the July 8, 2021 Planning Commission Regular Meeting Agenda was made by Commissioner Mitchell and seconded by Commissioner Murphy. Motion carried unanimously.

#### 5. Approval of Meeting Minutes:

a. Planning Commission Minutes of May 13, 2021

A Motion to approve the May 13, 2021 Planning Commission Regular Meeting Minutes was made by Commissioner Grissim and seconded by Commissioner Voight. Motion carried unanimously.

b. Planning Commission Minutes of May 27, 2021

A Motion to approve the May 27, 2021 Planning Commission Regular Meeting Minutes was made by Commissioner Grissim and seconded by Commissioner Mitchell. Motion carried unanimously.

#### 6. Call to Public:

None

#### 7. Old and New Business:

a. Site Plan #21-010 Private Shared Driveway (Mitchell) a request to approve the construction of a private shared driveway which is intended to serve two (2) single-family residential lots, currently addressed as 12102 Dunham Road.

Director Langer summarized the location and scope of the request stating the following:

- Zoned CA Conservation Agriculture.
- Applicant intends to divide the property into four parcels.
- Livingston County Road Commission (LCRC) will not approve, or issue separate driveway permits for Parcel C and Parcel D due to site distance issues on Dunham Road.
- Shared driveway requires Planning Commission approval.

Wayne Perry of Desine Inc., representing the property owners, stated it is simply the proximity of the hill on Dunham Road which precludes the property owner's from have their own driveway at this location; otherwise, they are completely conforming parcels.

The Planning Commission reviewed the staff memorandum dated July 1, 2021.

Section 5.23.4.B.xii. requires proposed public and private utility locations. Mr. Perry stated usually a shared driveway request is due to a parcel not having road frontage with the accompanying utility easements. This is not the case for this request.

Section 5.23.4.C. requires a construction cost estimate. Director Langer explained a cost estimate helps establish the Developer Account dollar amount that will be requested as part of the inspection process by HRC following the application of a Land Use Permit.

#### **Commissioner Grissim offered the following Motion:**

Move to approve Site Plan Application #21-010, a request to construct a private shared driveway which is intended to provide access to two (2) single-family residential lots, which will be created under a separate land division application.

#### Approval is subject to the following conditions:

- 1. The applicant shall adequately address the outstanding items noted in the Planning Department's memorandum, dated July 1, 2021.
- 2. Applicant complies with any requirements of the Department of Public Works Director, Township Engineering Consultant, Hartland Deerfield Fire Authority, and any other governmental agency.
- 3. Approval of the proposed shared driveway does not include approval of any future land divisions.
- 4. The proposed easement maintenance agreement shall comply with the requirements of the Township Attorney.

#### Seconded by Commissioner Voight.

Director Langer corrected a typographical error in the case number for clarification.

#### Motion carried unanimously.

# b. Site Plan #21-009 (Heritage Meadows PDMDR– Amendment to SP #225 for lot coverage standard)

Director Langer summarized the location and scope of the request stating the following:

- Located north of Highland Road, east of Clark Road.
- Approved as part of a Planned Development.
- Modifying lot coverage limitation from twenty percent (20%) to thirty percent (30%).
- Similar request to some other developments that came before the Planning Commission in the recent past.

Danielle Langenbruch, President of Heritage Meadows Association; Renee Lounsberry, Vice-president of Heritage Meadows Association introduced themselves and stated the following:

- Previous HOA Board contacted by Planning staff.
- More recently some property owners wanted to make property improvements but could not.
- Generally calculated, 66 of the 84 homes may be over the twenty percent (20%) limitation which is why they are bringing this request.

Chair Fox summarized other developments previous requests for a similar issue.

#### **Commissioner Voight offered the following Motion:**

Move to approve Site Plan Application #21-009, a request to amend the approved site plan for Heritage Meadows PDMDR (SP #225) to amend the maximum lot coverage from twenty percent (20%) to thirty percent (30%). Approval is subject to the following conditions:

- 1. The applicant shall adequately address the outstanding items noted in the Planning Department's memorandum, dated July 1, 2021.
- 2. Applicant complies with any requirements of the Department of Public Works Director and Hartland Deerfield Fire Authority and all other government agencies, as applicable.

Seconded by Commissioner Mitchell. Motion carried unanimously.

## c. Site Plan #21-011 – Hartland Senior Living Planned Development/PIRHL (PD) Final Plan

Director Langer summarized the location and scope of the request stating the following:

- Located between Bullard Road and Fenton Road, north of Highland Road (M-59).
- Completed Conceptual and Preliminary reviews before both the Planning Commission and the Township Board.
- A hybrid of senior apartments and assisted living.
- Included possible future interior uses if there is a change in the market.
- Possible interconnection proposed for the future.

Kevin Brown, VP of Development PIRHL, the Applicant, shared his presentation.

The Planning Commission discussed the Hartland Senior Planned Development Agreement Outline Draft.

Director Langer recommended the section related to signage be revised or eliminated if, for some reason, the sign regulations change, they would not be locked into this set of parameters for signage.

Director Langer stated in the Final Plan, some of the landscaping has been modified as requested at the Preliminary Review.

Director Langer stated it is typically beneficial for both properties when developed to have interconnection. If an agreement cannot be agreed upon, the Township has required PIHRL to pave an access up to the property line which would be completed when the neighboring property makes changes to their site. Commissioner Murphy asked if the Fire Department was satisfied with this arrangement. Director Langer stated they were.

Commissioner Voight stated he is very pleased with the roofline variations on the façade plan and the general design of the building. Chair Fox agreed as did other members of the Planning Commission.

#### **Commissioner Mitchell offered the following Motion:**

Move to recommend approval of Site Plan Application #21-011, the Final Planned Development Site Plan for Hartland Senior Living Planned Development, subject to the following conditions:

- 1. The Final Planned Development Site Plan for Hartland Senior Living Planned Development, SP PD #21-011, is subject to the approval of the Township Board.
- 2. Final approval of the Hartland Senior Living Planned Development (SP PD #21-011) shall require an amendment to the Zoning Ordinance to revise the zoning map and designate the subject properties as PD (Planned Development). The subject properties, which constitute the planned development project area (17.91 acres total), and which are to be rezoned to PD, are as follows:
  - a. Tax Parcel ID #4708-23-300-025 (13.71 acres in size); currently zoned CA (Conservation Agricultural)
  - b. Tax Parcel ID #4708-23-300-026 (2.00 acres in size); currently zoned OS (Office Service)
  - c. Tax parcel ID #4708-23-300-027 (2.22 acres in size); currently zoned OS (Office Service)
- 3. The applicant shall adequately address the outstanding items noted in the Planning Department's memorandum, dated July 1, 2021, on the Construction Plan set, subject to an administrative review by Planning staff prior to the issuance of a land use permit.
- 4. The Planned Development Agreement and any easements shall comply with the requirements of the Township Attorney.
- 5. Municipal water shall be available for this development. In the event that municipal water is not available for this project, the developer shall re-submit plans to be approved by the Planning Commission and Township Board that provide an acceptable water source.
- The applicant shall apply for and secure all applicable approvals and permits from the Michigan Department of Transportation prior to the issuance of a land use permit for the project.
- 7. Applicant complies with any requirements of the Township Engineering Consultant, Department of Public Works Director, Hartland Deerfield Fire Authority, and all other governmental agencies, as applicable.

Seconded by Commissioner Murphy. Motion carried unanimously.

#### 8. Call to Public:

None

#### 9. Planner's Report:

None

#### 10. Committee Reports:

None

HARTLAND TOWNSHIP PLANNING COMMISSION DRAFT REGULAR MEETING MINUTES July 8, 2021 – 7:00 p.m.

## 11. Adjournment:

A Motion to adjourn was made by Commissioner Voight and seconded by Commissioner Mitchell. Motion carried unanimously. The meeting was adjourned at approximately 7:48 p.m.

#### HARTLAND TOWNSHIP PLANNING COMMISSION DRAFT REGULAR MEETING MINUTES

September 23, 2021 - 7:00 p.m.

1. Call to Order: Chair Fox called the meeting to order at approximately 7:00 p.m.

#### 2. Pledge of Allegiance:

### 3. Roll Call and Recognition of Visitors:

Present - Commissioners Fox, McMullen, Mitchell, Murphy

Absent – Commissioners Grissim, LaRose, Voight

#### 5. Approval of Meeting Minutes:

a. Planning Commission Minutes of June 24, 2021

A Motion to approve the June 24, 2021 Planning Commission Regular Meeting Minutes was made by Commissioner Mitchell and seconded by Commissioner Murphy. Motion carried unanimously.

#### 6. Call to Public:

None

### 7. Old and New Business:

a. Site Plan #21-012 Hartland Crossing Planned Development (PD) Concept Plan – Request for Concept Review of a mixed use planned development with commercial and residential uses, known as Hartland Crossing.

Director Langer described the location of the project and stated the following:

- Proposed Planned Development Concept Review.
- Ten acres to the north could be commercial with multi-family residential use in the southern 20 acres.
- Possibility of another lesser commercial use in the southern portion.
- Reviewed at the August 12, 2021 Planning Commission meeting where the density was discussed; original submittal did not include the number of units being requested.
- Future Land Use Map (FLUM) designation allows up to four units per acre with a bonus density of 40% or 168 units.
- The Applicants indicated they are looking at 15 units per acre to support this project on the southern 20-acre portion only; approximately 300 units.
- Planning Commission desired to see examples of other developments the Applicant has constructed with this density and asked for that information to be provided.
- The Applicant has provided the density information and some additional details about amenities.

The Applicants introduced themselves: Chris Kojaian and Tony Antone of Kojaian Management Corporation; and Mark Szerlag of Thomas Duke Company. The Applicant confirmed the Planning Director's summary of the plan and added some of the examples of the density they are proposing, 15 dwelling units per acre, are not projects they were involved in but do show a visual representation of what they are proposing or companies that have constructed similar developments. He continued many developers are looking for a site this size; it is the sweet spot for this type of development. Also stated they are open to another lesser

commercial use to the south which could be an amenity such as a day care or some other destination business that would not need the M-59 frontage.

Director Langer presented some of the illustrated examples of this level of density reminding the Planning Commission these are not the exact layouts being requested; the actual project may look different.

The Planning Commission had the following comments:

- Same as what was proposed in August with the addition of some possible amenities.
- Higher density than any other project in Hartland to date.
- Housing study recommended higher density developments near existing utilities and access, which fits this site. A project like this belongs in this location if it belongs anywhere in the Township.
- Bonus density is 40%; this proposal is approximately 150% over the existing density allowed. Concerned about setting a precedent allowing this density here.
- Density proposed is not unreasonable, it is just different for Hartland.
- One recognizable benefit is a second access to the Charyl Stockwell Academy which is something that is needed but cannot see other recognizable benefits.
- Unsure how to move forward to allow the requested density; amend the Ordinance or something else.
- Can find nothing wrong with the photo examples of the density request; that type of density is not offensive, it is just not something Hartland is used to.
- Density should be where infrastructure is. There is no more infrastructure possible in Hartland today than this location.
- The Township needs a variety of housing which will support the commercial uses like restaurants and stores residents say they want.
- Good planning is to have more intense development and uses near this very location; it is inevitable.
- Consultants say the market has changed; this development is providing a product that Hartland currently does not offer and the market demands.
- Must think of the whole Township. Residents state they want more amenities, then more residents are needed, and this is the location for such a development.
- This development will look better in 20 years than a less intense product.
- Development of this kind will also draw new business to the area.

The Applicant stated they appreciate the comments; these are things they have thought about as well. With regard to setting a precedent; there is already an option for 40% bonus density, there could be an option for a "super bonus" if desired. There are clearly benefits that can be identified for this location that would not be present in other proposals at another location; this is a unique, higher-end project. A community could not support more than one or two developments of this kind. Believes this will be one of those really special corners that the Township will be proud of for years to come.

Chair Fox stated he believes there is a way forward, whether it is the "super bonus", or a specific area designated around the M-59/US 23 interchange for more intense development. He believes it is the number, the 15 units per acre, that is tripping us up; should think about it for what it is and what it could do for the existing and future business community.

Commissioner Murphy stated the following:

- Rooftops help drive commercial development.
- Still dealing with the pandemic.

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- If it belongs anywhere, it belongs here.
- Traffic is a consideration.
- Not an easy position to be in; trying to consider all aspects.
- This is a walkable development opportunity.
- Could be a springboard project for Hartland Township; something we need to go forward that will bring the desired development.
- It is new but maybe it is what we need here.

Chair Fox stated he supports this concept if the Applicant comes back with the right project, if they decide to come back. The density is not an issue.

The Applicant stated the following:

- Understand this is the Conceptual phase and there are many more steps at two different governing bodies.
- Township Board may not support it at all, but if they do, then they will be back with more detailed plans.
- The density is the gating issue; they are interested in bringing this high-end product to Hartland.
- If all are on the same page, much more will be presented at the Preliminary stage.

Commissioner Mitchell stated the following:

- Most people look at rooftops and not architecture, but we want excellent design. To get 15 units per acre, the design must look exceptional to gain his approval.
- He is still apprehensive.

Director Langer shared that Commissioner Grissim sent an email which stated she too has concerns about the density.

#### b. Initiate Ordinance Amendment to Section 4.6 (Ponds)

Director Langer stated the following:

- Township received a complaint regarding the construction of a pond without the proper permits.
- The current process involves a costly Site Plan Review application and a requirement to appear before the Planning Commission.
- Admin committee suggested applications for a pond could be reviewed and approved by staff rather than the Planning Commission which requires a Zoning Amendment.
- Zoning Amendments must be initiated by either the Planning Commission or the Township Board.

Chair Fox stated in all of his years on the Planning Commission he can remember one pond, possibly two, that has been approved by the Planning Commission. He suggested surrounding communities pond requirements be examined. He thinks staff could easily handle this.

Commissioner Mitchell concurred.

Chair Fox suggested maybe we could have the Township Engineer, HRC, review the standards as this issue has not been reviewed for many years.

Commissioner Murphy also agreed; staff is capable of reviewing and approving these applications.

Chair Fox stated they should have a Land Use Permit to ensure the slope is safe and the other site elements are taken into consideration such as wetlands, drainage, and septic systems.

The Planning Commission briefly discussed the difference in approval times between being heard at the Planning Commission or a staff approval.

Commissioner McMullen agreed stating she thinks it would be appropriate on properties that are larger than two acres.

Director Langer stated if one is adding a pond in a wetland area, the Michigan Department of Environment, Great Lakes and Energy (EGLE) would be involved. It can get tricky as the pond could potentially become part of a regulated wetland network at some point and the property owners might not be able to fill it in or change it without getting a permit from EGLE formerly known as the Michigan Department of Environmental Quality (MDEQ).

Commissioner Mitchell offered the following Motion: Move to initiate an Ordinance Amendment to Section 4.6 of Zoning Ordinance. Seconded by Commissioner McMullen. Motion carried unanimously.

#### 9. Planner's Report:

Director Langer stated the Shops at Waldenwoods has an opportunity for another tenant and has requested to modify the development entry sign. The sign was approved as part of the Planned Development (PD). Director Langer stated as long as they maintain the same dimensions, he will allow them to modify or change the inside portion which is the part of the monument sign they want to modify. He wanted to share with the Planning Commission that he is working with the applicant rather than requiring they modify the PD Agreement, which is much longer and more costly process.

The Planning Commission briefly discussed the recent history of the sign and the PD modification.

Director Langer stated they will be required to provide a before and after representation of the sign showing no change in the dimensions of the overall sign.

#### 10. Committee Reports:

None

#### 11. Adjournment:

A Motion to adjourn was made by Commissioner Murphy and seconded by Commissioner McMullen. Motion carried unanimously. The meeting was adjourned at approximately 8:03 p.m.

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## Hartland Township Planning Commission Meeting Agenda Memorandum

**Submitted By:** Troy Langer, Planning Director

**Subject:** Site Plan Application #21-014 Multi-tenant building with drive-through window

(Hartland Towne Square PD)

**Date:** October 7, 2021

#### **Recommended Action**

Move to approve Site Plan Application #21-014 a request to amend the previously approved plans for Hartland Towne Square Planned Development (PD), to construct an approximate 7,980 square foot multitenant building with one (1) drive through window. Approval is subject to the following conditions:

- 1. The applicant shall adequately address the outstanding items noted in the Planning Department's memorandum, dated October 7, 2021, on the Construction Plan set, subject to an administrative review by the Planning staff prior to the issuance of a land use permit.
- 2. The applicant shall change the building materials of the dumpster enclosure to match the building elevations. Revised plans shall be submitted as part of a land use permit.
- 3. The applicant shall eliminate the proposed river rock in the landscape beds and replace it with either lawn, shredded hardwood mulch, or another acceptable material. Revised plans shall be submitted as part of a land use permit.
- 4. Applicant complies with any requirements of the Department of Public Works Director, Township Engineering Consultant, and Hartland Deerfield Fire Authority Fire Marshal.
- 5. Applicant shall secure a letter of authorization from all applicable property owners prior to issuance of a land use permit for the project.
- 6. (Any other conditions the Planning Commission deems necessary)

#### Discussion

**Applicant** Thomas Hannawa, DPS Development, LLC

#### **Site Description**

The Hartland Towne Square Planned Development (PD) is located north of Highland Road (M-59) and west of Clark Road in Section 21 of Hartland Township. The entire planned development is approximately 81.34 acres in size and is comprised of multiple parcels. The PD is located north of Highland Road (M-59), south of Rovey Drive, west of Clark Road. On the development plan for Hartland Towne Square (Final Plan dated June 18, 2008), the subject site is labeled as Outlot #10 and #11. The site is currently vacant; however, the site was prepared for development when Hartland Square Drive was constructed.

The plans indicate the subject site is approximately 1.73 acres in area which is the combined total of Outlot #10 (1.02 acres) and Outlot #11 (0.71 acres). Outlot #10 (Tax Parcel ID #4708-21-400-056) is under the ownership of Flagstar Bank FSB. Outlot #11 (Tax Parcel ID #4708-21-400-077) is under the ownership of Ramco RM Hartland SC, LLC. It is presumed that the applicant will request to combine the two (2) parcels, once purchased, through a land division application with the Township.

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Hartland Towne Square Planned Development is zoned Planned Development (PD) and was approved in 2008, under Site Plan Application #419F.

#### Request

The applicant is requesting approval to amend the previously approved site plans for Hartland Towne Square Planned Development (PD) and construct an approximate 7,980 square foot multi-tenant building with one (1) drive-through window under Site Plan #21-014.

#### **Overview and Background Information**

The Hartland Towne Square Planned Development was approved by the Township on March 18, 2008, under SP #429F. The approved plans for PD include the Planned Development Agreement (the "Agreement"), the Pattern Book for Hartland Towne Square (site design standards), and the Final Plan (detailed site and landscape plans). Together these documents, and applicable zoning standards, provide the development standards for Hartland Towne Square PD. Eight amendments to the PD have occurred between 2008 and 2019 as outlined below:

#### 1<sup>st</sup> Amendment

The first amendment to the PD was approved on July 1, 2008. The Agreement, Final Plan (Amended Final Plan, dated June 18, 2008), and Pattern Book (Rev. NO. 3 dated June 18, 2008) were updated in conjunction with the construction of Meijer's.

## 2<sup>nd</sup> Amendment

The second amendment to the PD was approved on August 6, 2008 which facilitated the granting of certain alternate access easements within the PD site. The second amendment did not require changes to the previously approved site plans (Amended Final Plan) or Pattern Book.

#### 3<sup>rd</sup> Amendment

On January 20, 2009, the third amendment to the PD Agreement was approved. The text of Paragraph 21 of the PD Agreement (Integration) was amended to establish the required signatories of any amendment to the PD Agreement. Changes to the Amended Final Plan and Pattern Book were not required.

#### 4<sup>th</sup> Amendment

The fourth amendment was approved on March 30, 2009, which amended the text of Paragraph 14.3 of the Agreement as it related to the newly configured Hartland Road and the granting of the Highway Easement to the Livingston County Road Commission. Changes to the Amended Final Plan and Pattern Book were not required.

## 5<sup>th</sup> Amendment

On August 4, 2010, the fifth amendment was approved. The text of Paragraphs 2 (Intent) and Section 6.6.4 (Signs) were amended to provide for the incorporation of approved amendments to the Agreement into the Final Plan and to provide for the relocation of and replacement of a directional sign to direct traffic to businesses on Rovey Drive. Drawings of the directional sign and revised site plans showing the location of the sign are incorporated into the fifth amendment document and as part of Sign Application #715. The Amended Final Plan and Pattern Book were not formally amended.

## 6th Amendment

On February 7, 2017, the Township Board approved the sixth amendment, which amended the wall sign standards as outlined in the Hartland RAMCO Planned Development Agreement (Section 6.6.3) and Hartland Towne Square Pattern Book (Page 28), under Site Plan Application #439A.

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#### 7<sup>th</sup> Amendment

On March 5, 2019, the Township Board approved Site Plan #19-002, a request to amend the Planned Development (PD) Agreement for the Hartland Township Square PD to permit up to three (3) drive-through restaurants in the Hartland Towne Square Planned Development (PD) and a total of eight (8) drive-through businesses. The language in the original PD Agreement allows for one (1) drive through for a bagel, donut, or coffee shop, and this language was not amended.

## 8<sup>th</sup> Amendment

On September 19, 2019, the Township Board approved the request to amend the Planned Development (PD) Agreement and Pattern Book for the Hartland Towne Square PD as the 8<sup>th</sup> Amendment. This request was initiated by the Planning Department to address several concerns in the planned development, that had come to staff's attention via several parties. The 8<sup>th</sup> Amendment established guidelines for the ongoing maintenance of private roads withing the development; allowed for improvements to the existing development monument sign at the northwest corner of Hartland Road and Highland Road; allowed for two (2) additional ground signs along Highland Road; allowed selective tree removals along the berm on Highland Road (near Culver's restaurant); adjusted the lighting standards for parking lot lighting (light pole style); and eliminated the restriction on the number of drive-through establishments.

#### Other History

Currently, Hartland Towne Square includes the following businesses: Meijer's, Taco Bell, Belle Tire, Tim Horton's/Cold Stone Creamery, Culver's, Emagine Theatre, and Panda Express. On January 25, 2018, the Planning Commission approved Site Plan Application #17-019, a request to construct an approximate 2,900 square foot Flagstar Bank, with three (3) drive-through windows, to be located at the northwest corner of Hartland Road and Highland Road (M-59), on Outlot #10. The project did not move forward.

#### **Planned Development Procedure**

New construction within the Hartland Towne Square PD must go through the Township's standard site plan approval process with review and approval by the Planning Commission. The proposed project will be reviewed for compliance with applicable standards with the Planned Development Agreement, Pattern Book, Final Plan, and the Township's Zoning Ordinance as applicable. The Planning Commission has Site Plan review authority and will make a final decision on Site Plan #21-014. As a point of clarification, a separate special use permit is not required for the drive-through use as it is a permitted use in the PD Agreement.

#### **Current Project Summary**

# SITE PLAN #21-014 (REQUEST TO AMEND FINAL PLAN AND CONSTRUCT MULTITENANT BUILDING WITH DRIVE-THROUGH WINDOW)

#### **Existing Site Conditions**

The proposed multi-tenant building is to be constructed on Outlot #10 and #11, as designated on the Final Plan (Development Area D). This site is bounded by Highland Road (M-59) on the south, Hartland Road on the east, and Hartland Square Drive on the north. The site is east of the Taco Bell restaurant. The site is vacant of buildings but was prepared for development when Hartland Square Drive was constructed.

The proposed plan shows an access point from Hartland Square Drive and an internal drive connection to the Taco Bell restaurant, along the south end of the subject site. Utilities (water and sewer) are available,

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and a stormwater management plan is in place for the entire Hartland Towne Square PD development. A landscaped berm is in place on the subject site, along the frontage of Highland Road. The landscaping was installed as part of the development of the PD sites (outlots along Highland Road) and generally follows the 2008 PD Landscape Plan (see Landscape Plan for Outlots #9-11). The intent is to preserve this landscaping with replacement plants to be installed as necessary.

#### Overview of the Proposed Use

The applicant proposes to construct an approximate 7,980 square foot multi-tenant building with one (1) drive-through window, although the business has not been identified. The business with the drive-through window occupies the most southern tenant space, with the drive-through window on the south side of the building. Three (3) additional tenant spaces in the building are shown.

Twelve (12) stacking spaces are provided in the drive-through lane, with five (5) spaces before the ordering station. The stacking spaces are along the north, west (rear), and south sides of the building. Fifty-one (51) parking spaces are shown.

The layout for Outlot #10 on the Final PD Plan shows an approximate 2,780 square foot bank building, parking area with 31 parking spaces, and landscaping. Outlot #11 on the Final PD Plan shows an approximate 1,758 square foot restaurant with 12 parking spaces. For the current request the combination of the two (2) outlot parcels (Outlot #10 and #11) will occur under a separate land division application which is subject to an administrative review and approval.

#### **Impact Assessment**

No separate impact assessment is required for the proposed new use.

#### **Traffic Generation**

No separate traffic impact assessment is required for the proposed new use.

## **Access and Circulation**

The site is accessed from a proposed driveway from Hartland Square Drive and an internal access that connects to the adjacent property to the west property, which is currently the Taco Bell restaurant.

#### **Requirements**

**Lot Size** (Sec 3.1.18 of Zoning Ordinance)

- Required Min. 20 acres for a Planned Development (entire development area); minimum lot size undefined for individual parcel or lot
- Proposed -1.73 acre parcel for subject site, that is within the PD
- Meets Requirement? Minimum lot size undefined for individual lots
- Comments (none)

#### **Frontage**

- Required Minimum Frontage undefined for individual lots with an approved Planned Development
- Proposed Approx. 211.49' along Highland Road/M-59; approx. 186.8' along Hartland Square Drive; and approx. 386.7' along Hartland Road
- Meets Requirement? N/A
- Comments (none)

Building Setbacks (Per approved Final Plan – Sheet SP 1.04 & Pattern Book – Page 34)

Setback	Required	Proposed	Meets Requirements? (Y / N)	Comment
Front (E)– Hartland Rd.	40.5'	118.06'	Y	
Front (N) – Hartland Square Drive	20'	120.54'	Y	
Front (S) – Highland Road (M-59)	20'	60.80'	Y	
Side (W)	20'	31.02'	Y	

- Meets Requirement? Yes
- Comments (none)

Parking Lot / Driveway / Internal Roads Setbacks (Per Final Plan – Sheet SP 1.04 & Pattern Book – Page 34)

Setback	Required	Proposed	Meets Requirements?	Comment
			(Y/N)	
Front (E)— Hartland Rd.	40.5'	41.27'	Y	
Front (N) – Hartland	20'	20'	Y	
Square Drive				
Front (S) – Highland	20'	51.53'	Y	
Road (M-59)				
Side (W)	10'	11.02'	Y	

- Meets Requirement? Yes
- Comment (none)

**Building Height** (Per approved Pattern Book – Page 36, for Outlots along Hartland Square Drive)

- Required Max. 24' from finished floor to roof parapet & 28' max. to any exterior feature element
- Proposed 24'-0" to top of parapet wall of building (front/east side of building)
- Meets Requirement? Yes
- Comments (none)

#### **Lot Coverage**

- Required Undefined for a Planned Development, 75% for principal building in GC
- Proposed 10.60%
- Meets Requirement? Lot coverage undefined in the Planned Development standards
- Comment (none)

#### **Site Requirements**

Off-Street Parking (Per Final Plan & current Ord. standards for retail use)

- Required − 1 space for each 300 square feet of gross floor area, equates to 27 parking spaces (7,980 gross Sq. ft. ÷ 300), 10' X 20' spaces
- Proposed 51 spaces, 10' X 20' spaces, and some spaces are 10' X 20.5'

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- Meets Requirement? Yes, meets Final Plan and current parking standards
- Comments The requirement is 27 parking spaces; however, the applicant is providing 51 spaces, which exceed the required amount by 24 spaces. There is no requirement regarding a maximum number of parking spaces. The landscape island in the parking area north of the building has one (1) parking space. Since there are extra parking spaces, staff would suggest this parking space be eliminated and a sidewalk be added to align with the sidewalk by the building. Lawn should be added on either side of the sidewalk in this island.

Barrier-Free Parking (Per ADA guidelines and approved Pattern Book – Page 44)

- Required 3 barrier-free spaces in a location most accessible to the building entrance, with at least 1 space van-accessible
- Proposed 1 van-accessible, and 2 barrier-free spaces, located in row of parking by tenant entrances
- Meets Requirement? Yes
- Comments (none)

**Loading** (Per approved Pattern Book – Page 41)

- Required 10' X 50' loading area located away from primary/secondary entrances, not visible from the street, must be screened.
- Proposed Loading area is not shown
- Meets Requirements? **TBD**
- Comments Although a separate loading area is not provided, it is assumed the deliveries will occur outside the normal business hours for each tenant, thus avoiding conflicts with parking and vehicular circulation. The plan is similar with other approved sites in the Hartland Towne Square PD which do not show a loading area. Planning Commission to determine if a dedicated loading is required.

**Dumpster Enclosure** (Per approved Pattern Book – Page 41)

- Required Service and refuse areas should be incorporated into the structure as much as possible and screened from view via a minimum 6' high masonry enclosure to match building with a solid framed door. If not incorporated into the structure, refuse areas shall be located along the furthest drive to the west of the building and all other provisions shall remain. Final location to be approved by Hartland Township. Remote or detached refuse areas shall be screened with landscape materials.
- Proposed A screened refuse enclosure, with two stalls and wooden gates is provided in the northwest corner of the site, with a 6-foot high screen wall comprised of CMU (Sheet SP 1.01)
- Meets Requirements TBD. The dumpster enclosure walls as shown do not comply and as
  the enclosure walls are required to be comprised of masonry products to match the brick on
  the building. Landscape materials shall be provided.
- Comments Revised drawings of the dumpster enclosure (brick to be used in place of CMU) will be required as part of the construction set of plans.

**Outdoor Eating Areas** (Per approved Pattern Book – Section 3.6, Pages 39-41; Planned Development Agreement, Section 3.1.15; and Section 4.47 of Zoning Ordinance)

#### Location

- Required Outdoor seating and dining areas shall be located immediately adjacent to the establishment with which it is associated and shall not encroach upon any public right-of-way. A minimum 5 feet of sidewalk shall be maintained free of tables and other encumbrances.
- Proposed Outdoor seating area is provided adjacent to the building entrance for the drivethrough business, with a 7-foot wide sidewalk and 14-foot by 20-foot patio area with landscape

Page 7

screening. A fence surrounds the patio area.

- Meets Requirements? Yes
- Comments (none)

#### Defined Area

- Required Applicable if alcoholic beverages are to be served in outdoor seating and dining areas.
- Proposed Alcoholic beverages are not proposed to be served in outdoor seating and dining area.
- Meets Requirements? NA
- Comments (none)

#### Capacity

- Required Outdoor seating and dining areas shall not exceed 25% of the total seating for the establishment.
- Proposed Seating plans (indoors and outdoors) were not provided.
- Meets Requirements? **TBD**
- Comments The seating plans will be required and reviewed with the construction set of plans.

#### Screening

- Required Appropriate screening or fencing complimentary and aesthetically pleasing to the site shall be provided as determined necessary by the Planning Commission.
- Proposed A drawing of the fence was not provided.
- Meets Requirements? **TBD**
- Comments A detail drawing of the fence will be required and reviewed as part of the construction set of plans.

### Pedestrian Circulation

- Required The seating arrangement of outdoor seating and dining areas must comply with the State of Michigan Building Code and is subject to review and approval by the Hartland Township Fire Marshal.
- Proposed A seating plan was not provided.
- Meets Requirements The seating arrangement plan will be required and reviewed with the construction set of plans.
- Comments (none)

#### Parking Spaces

- Required No additional parking spaces are required to accommodate outdoor seating and dining spaces.
- Proposed None proposed or required.
- Meets Requirement? Yes
- Comments (none)

## Furniture (Outdoor furniture, etc.)

- Required (Pattern Book & Zoning Ordinance) Tables, chairs, table umbrellas, railings, planters, posts, and other items shall be of quality, design, materials, and workmanship to ensure safety and convenience of users and to enhance the visual and aesthetic quality of the area. All furniture must be made primarily of wood, metal, or a material of comparable quality.
- Required (Zoning Ordinance) Display & Advertising: No outdoor seating or dining area may be used for the display or location of merchandise, advertising materials or storage. No permitted canopy, awning, or umbrella shall contain advertising material or signage. Except umbrellas shall be permitted to include the name of the business and/or logo at the outer edge of the fabric with a maximum width of (6) inches.
- Proposed Furniture specification information was not provided.
- Meets Requirements? Furniture and other furnishings will be reviewed under the land use permit application.

Page 8

• Comments – Corporate logo or business name, if provided on the patio umbrella, must comply with the Zoning Ordinance. Applicant has been informed of the regulation. Dissonant colors are not permitted.

## Waste Disposal

- Required Appropriate waste disposal containers shall be provided for the convenience and sanitary disposal of garbage or waste within and around outdoor seating and dining areas. Containers shall be complimentary to the style of furniture.
- Proposed Information was not provided.
- Meets Requirement? Staff review will occur under the land use permit application.
- Comments Dissonant colors are not permitted for waste containers

#### Hours of Operation (Zoning Ordinance)

- Required All outdoor seating and dining areas shall be allowed to operate until 10:00 p.m. Sunday through Thursday and until 11:00 p.m. Friday and Saturday. All activities shall cease by the required times.
- Proposed The restaurant hours of operation were not provided.
- Meets Requirements? Applicant has been informed of the regulation.
- Comments (none)

## Season of Operation (Zoning Ordinance)

- Required All outdoor seating and dining areas shall be allowed to operate from April 1<sup>st</sup> through November 15<sup>th</sup> of a given year.
- Proposed Applicant has been informed of the restrictions.
- Meets Requirements? Yes
- Comments –(none)

#### Furniture Storage (Zoning Ordinance)

- Required During the off-season, from November 16<sup>th</sup> to March 31<sup>st</sup> of a given year, all tables, chairs, table umbrellas, posts, and other furniture not fastened to the ground shall be removed and shall not be stored outside. It is the responsibility of the establishment to secure adequate storage of these items.
- Proposed Applicant has been informed of the regulation.
- Meets Requirements? Yes
- Comments (none)

#### Lighting

- Required Additional lighting on the property shall be designed and erected in accordance with Section 5.13, Lighting of the Zoning Ordinance. Lighting shall be reviewed by the Planning Commission.
- Proposed A lighting plan for the subject site has been submitted and will be reviewed in the next section of this memorandum.
- Meets Requirements? Yes
- Comments (none)

#### <u>Noise</u>

- Required No music, intercom, or other noise shall be permitted that impacts adjacent properties in accordance with the Township's Nuisance Ordinance.
- Proposed Information on intercom system was not provided.
- Meets Requirements? Applicant has been informed of the restrictions.
- Comments (none)

#### Patron Entrance and Exit

• Required – Regulations pertain to enclosed outdoor seating and dining areas at establishments serving alcohol.

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- Proposed Alcoholic beverages are not proposed for the drive-through establishment/tenant.
- Meets Requirements? NA
- Comments (none)

#### Food and Beverage Services

- Required All food and beverages shall be prepared within the main establishment. The service of alcoholic beverages is subject to the current Michigan Liquor Control Commission Rules and Regulations.
- Proposed Alcoholic beverages are not proposed for the drive-through establishment/tenant.
- Meets Requirements? NA
- Comments (none)

## **Lighting** (Per approved Pattern Book – Pages 23 and 44 and Section 5.13 of Zoning Ordinance)

- A. Light levels at Property Lines
  - Required Max. 0.5 fc along property line adjacent to residential, or 1.0 fc along property line adjacent to non-residential (Sec. 5.13 of Zoning Ordinance)
  - Proposed Max. 0.6 fc along west property line; Max.0.5 fc along south property line; Max. 0.1 fc along east property line; Max. 1.0 fc along north property line
  - Meets Requirement? Yes
  - Comments (none)
- B. Average Illumination Levels
  - Required Between 2.4 and 3.6 fc (average) within main parking area, and up to 5.0 fc (average) at main building entrance(s) and main driveway(s) (Per Pattern Book)
  - Proposed Average illumination within main parking area is 2.2 fc; average illumination at building entrance is 2.2 fc; average illumination at the main driveway (Hartland Square Drive) is 2.2 fc.
  - Meets Requirement? Yes
  - Comments Sheet SL 1.1 should be revised to state the correct "Average Illumination Levels" in the Site Photometric Data chart. The correct average levels are between 2.4 and 3.6 footcandles. The revised plan shall be submitted as part of the construction set of plans.
- C. Maximum Illumination Level
  - Required Not defined in Pattern Book, max. 10.0 fc per Zoning Ordinance
  - Proposed Max. 6.2 fc
  - Meets Requirement? Yes
  - Comments (none)
- D. Fixture Height
  - Required Max. 28 feet (25-foot fixture on 3-foot base)
  - Proposed 9 poles, with 23-foot overall height (pole with light fixture, 21 feet in height; and base, 2 feet in height)
  - Meets Requirements? Yes
  - Comments (none)
- E. Fixture Type
  - Required Light pole fixture style shown on Page 6 of Pattern Book (8<sup>th</sup> Amendment); Black shoe-box fixture, fully recessed, consistent with overall development.
  - Proposed LED light fixtures on square, black light poles (8 single head and 1 double-head light poles); and 5 wall-mounted shoe-box LED light fixtures on the west/rear facade. Another style of wall-mounted light fixtures is shown on the east and north sides of the building, but a specification sheet was not provided. The photometric plan does not include

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footcandle values for any wall-mounted light fixtures.

- Meets Requirement? **TBD**
- Comments Photometric plan is to be revised to include all wall-mounted light fixtures in the calculations, and a cut sheet is to be provided for the decorative wall-mounted fixture. The revised photometric plan and cut sheet can be submitted with the construction set of plans.

**Landscaping** (Per approved Pattern Book – Pages 10, 42, and 43 as well as approved Final Plan/Landscape Plan for Development Area 'E', for reference of existing plant materials)

A. Adjacent to Roads

## **Hartland Square Drive**

• Required – 1 deciduous or evergreen tree per 40 lineal feet of road frontage, PLUS 1 ornamental tree per 80 lineal feet of road frontage, PLUS 8 shrubs per 40 lineal feet of road

<u>Hartland Square Drive</u> (approx. 186.8 lineal feet of road frontage): 5 deciduous/ evergreen trees, 2 ornamental trees, and 35 shrubs REQUIRED

- Proposed 5 deciduous trees; 2 ornamental trees and 42 shrubs (including 10 shrubs around monument sign)
- Meets Requirement? Yes
- Comments (none)

#### Hartland Road

Required – 1 deciduous or evergreen tree per 40 lineal feet of road frontage, PLUS 1 ornamental tree per 80 lineal feet of road frontage, PLUS 8 shrubs per 40 lineal feet of road frontage

<u>Hartland Road</u> (approx. 386.7 lineal feet of road frontage): 10 deciduous / evergreen trees, 4 ornamental trees, and 77 shrubs REQUIRED

- Proposed 6 deciduous trees; 4 evergreen trees; 4 ornamental trees; and 78 shrubs
- Meets Requirement? –Yes
- Comments (none)

#### Highland Road/M-59

Required – 1 deciduous or evergreen tree per 40 lineal feet of road frontage, PLUS 1 ornamental tree per 80 lineal feet of road frontage, PLUS 8 shrubs per 40 lineal feet of road frontage

<u>Highland Road/M-59</u> (approx. 211.49 lineal feet of road frontage): 3-foot high berm plus 5 deciduous / evergreen trees, 3 ornamental trees, and 42 shrubs REQUIRED

- Proposed Existing berm and landscaping were previously installed and are to remain. Existing plant count is as follows: 2 deciduous trees; 5 evergreen trees; 7 ornamental trees; and 58 shrubs
- Meets Requirement? –Yes
- Comments Dead, missing, or diseased plant material should be replaced as applicable, as part of this project.
- B. Berm Requirements
  - Required Area adjacent to a public right-of-way (Highland Road/M-59) shall be required to have a berm, with berm to be a minimum three feet in height
  - Proposed Existing landscaped berm along Highland Road /M-59
  - Meets Requirements? Yes
  - Comments (none)
- C. Parking Lot Landscaping
  - Required 10 sf of landscape area per parking space (510 sf of landscape area required for 51

parking spaces); 1 tree per 320 sf landscape area (2,848 sf landscape area proposed; equates to 9 trees required); 50% (minimum) of each island/landscaped area must be "sod, shrubs, etc." Shredded hardwood mulch is the required type of mulch.

- Proposed 2,848 sf of parking lot landscaping (510 sf required); and 9 parking lot trees (9 trees required). All interior landscape areas to be sodded or landscaped with a mixture of deciduous and evergreen shrubs and areas meet the 50% coverage. River rock is proposed in in some landscape areas and shredded hardwood mulch, or plant material is required.
- Meets Requirement? **TBD.** Plan complies for required square feet of landscaped area (based on stated square footage of parking lot landscape area of 2,848 sf); 50% plant coverage; and number of required trees. **River rock is not permitted as a type of mulch.**
- Comments The landscape plan should be revised to state the correct formula for "Parking Lot Landscaping" which is stated above in this section; a plan should be provided to show areas counted as parking lot landscaping and open space landscaping; and the river rock shall be replaced with shredded hardwood mulch or plant material. The revised landscape plan shall be submitted as part of the construction set of plans.

## D. Open Space Landscaping

- Required 1 tree per 3,000 square feet of open space. Per previous landscape standards the open space landscaping formula pertains to landscaped areas that are unpaved, open areas for which specific landscape requirements are not provided. For this site, the landscaped area long the west lot line could be considered Open Space Landscaping (approx. 2,510 sf, which equates to 1 tree required)
- Proposed –3 conifer trees and 3 ornamental trees are shown in the landscape area along the west property line.
  - Meets Requirement? Yes
- Comments Staff would suggest using a narrow habit conifer tree in place of 3 proposed Norway Spruce trees in the west landscape area due to spatial constraints.
- E. Total Required Landscaping

(Excluding berm along Highland Road /M-59)

#### **REQUIRED:**

Deciduous/Evergreen Trees: 16 Ornamental Trees: 6 Required Shrubs: 112

PROPOSED:

Deciduous/Evergreen Trees: 21 Ornamental Trees: 6 Shrubs: 120

- Meets Requirement? Yes
- Comments (none)

#### F. Foundation Landscaping

- Required –Foundation landscaping required as determined by the Township (Sec. 7.2 of Pattern Book, page 42).
- Provided planting beds provided on east, west, and south side of the building, varying in width from 4 feet (east), 3 feet (west), and 5 feet (south), using a combination of plant material (shrubs, perennial flowers, and ornamental grasses)
- Meets Requirement? Yes
- Comment There is an approximate 5.5 foot wide area along the north side of the building which is not clearly labeled as sidewalk or landscape planter. Per the applicant this area will be landscaped. The landscape plan shall be revised to show plant material for this area as part of the construction set of plans.

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#### G. Landscaping Species

• Proposed – Proposed tree species deviates from standards called for in the Pattern Book, including:

Tree species:

Black Gum (Nyssa Sylvatica) is proposed and is not listed in the Pattern Book in the Tree category

- Meets Requirement? **TBD**
- Comments Plant diversity can be beneficial and can provide seasonal interest. Planning Commission to determine if the proposed plant material meets the intent of the plant list provided in the Pattern Book and are appropriate for the overall development.

Architecture / Building Materials (Per approved Pattern Book, Pages 24, and 36-38)

PD Requirements		Submitted Materials		Meets Require ments? (Y / N)
Building Articulation. Horizontal and vertical offsets, glazing and canopy and shading systems as well as exposed structural components. Use of a diverse but complimentary color and finish palette will be required		The building has a mixed palette of building materials in complimentary earthtones which consist of face (clay) brick (Glen Gery brick); cast stone bands; fiber cement siding (6-inch wide composite wood planks); split face block; perforated metal siding; and black canvas awnings.  Two different tones of grey clay brick are proposed (3½" x 2¼" x 7 5/8"; depth x height x length)  Vertical fiber cement siding, horizontal bands of cast stone; perforated metal siding; and canvas awnings are used to provide visual interest.		Y
Materials Used as Defined in the Pattern Book dated March 18, 2008		Materials: Brick (2 colors); Fiber cement siding; perforated metal siding (similar to flat metal panels); cast stone (similar to limestone); split face CMU block; black canvas awnings; and dark bronze window frames.		Y
Materials Schedule - Required		Materials Schedule – P	roposed	
Split-face CMU	25% Max.	East Elevation South Elevation West Elevation* North Elevation	2% 8% 9% 8%	Y Y Y Y

Cast Stone (limestone)*	50%	East Elevation	2%	Y
	Max.	South Elevation	3%	Y
		West Elevation*	0%	Y
		North Elevation	3%	Y
Brick (2½" clay brick)*	100%	East Elevation	53%	Y
	(40%	South Elevation	74%	Y
	Min.)	West Elevation*	90%	Y
		North Elevation	78%	Y
Wood-look siding (fiber	10%	East Elevation	3%	Y
cement siding)	Max.	South Elevation	0%	Y
		West Elevation	0%	Y
		North Elevation	2%	Y
Metal	20%	East Elevation	5%	Y
(combination of Metal &	Max.	South Elevation	9%	Y
Perforated Metal categories)		West Elevation	1%	Y
-		North Elevation	0%	Y
Storefront (Glass)	50%	East Elevation	35%	Y
	Max.	South Elevation	7%	Y
		West Elevation	0%	Y
		South Elevation	10%	Y
Canvas Awnings**	10%	East Elevation	3%	Y
	Max.	South Elevation	0%	Y
		West Elevation	0%	Y
		South Elevation	0%	Y

<sup>\*</sup>Applicant has noted in an email dated 10/4/2021, that the percentages for split-face CMU and brick are flipped in the chart on Sheet A5.01R (Façade Materials Calculations N & W). The correct percentages for brick and split-face CMU are listed above. Also, on that same sheet, cast stone is shown on the west elevation (64.88 square feet) however the percentage is listed as 0% in the chart, and should be revised.

- Meets Requirements? Yes
- Comments –
- <u>Building materials</u> –The fiber cement siding is a composite wood product in 6" wide, horizontal planks. This product is not specifically listed in the Materials Schedule; however, it could be considered similar to the products listed under the category of "Wood, vinyl, or aluminum siding". Siding is limited to a maximum of 10% coverage on any façade and the plans comply.
- <u>Brick</u> The proposed brick size is  $2\frac{1}{2}$ " in height and brick used on other buildings in the same development is 4" in height (Panda Express and Taco Bell). The Pattern Book does not specify brick sizes.
- Roof appurtenances All rooftop equipment is required to be screened with a parapet wall or roof structure in building materials that matches the structure or is visually compatible and shall not be visible from any direction. Site line sections may be required. Metal panels may not be used for rooftop screening (Page 38 of Pattern Book).

Parapet walls are shown, as well as the line of roof beyond the walls, on the north, south, and west elevation drawings. The line of roof beyond the wall is not shown on the east (front) elevation drawing. Sheet A5.01 (see west elevation) states the "rooftop mounted HVAC units,

<sup>\*\*</sup>Canvas awning percentages were not provided on the architectural renderings (Façade Materials Calculations E & S; or N&W); staff estimated the percentages as noted above using the scaled elevations drawings.

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screen with Cityscape rooftop screen or equal, TYP". A Cityscape rooftop screen or equal is not a permitted screening method and the note should be removed.

An outline of the rooftop mounted HVAC unit is only shown on the west building elevation drawing, and scales to be approximately 4 feet in height. The parapet wall appears to adequately screen the HVAC unit on the west building elevation. In order to confirm if adequate screening of the rooftop units is provided by the parapet wall on all sides of the building, the building elevations should be revised to show the line of roof on the east building elevation and an outline of each rooftop mounted HVAC unit (4 feet in height) should be provided on the east, south, and north building elevations.

Revised plans shall be submitted as part of the construction set of plans to address the items noted, including screening of roof appurtenances and updating the Façade Materials Calculations drawings and material summary charts.

#### **Pedestrian Access** (Per the approved Pattern Book)

- Required 7' sidewalk where adjacent to parking spaces and 5' sidewalk elsewhere; sidewalks required on all sides of the building where adjacent to parking.
- Proposed A sidewalk is provided along east (front) side of the building, adjacent to parking, and varies in width from 7' to 11'. A 5-foot wide sidewalk is shown along the west side of the building.
- Requirements Met? Yes
- Comments (none)

#### Other Comments:

- <u>Transformer</u> If a transformer is proposed, the unit should be shown on the plans and all required screening.
- <u>Bike Racks</u> A detail drawing of a bike hoop is provided on Sheet SP 1.01 however the bike hoop is not shown on the plans.
- Ground Sign A monument sign is shown on the plans. The Pattern Book provides design standards for a monument sign regarding size, height and type of building materials (Page 27A of the Pattern Book). A monument sign, if proposed, will be reviewed as part of a sign permit application.
- Wall Sign Wall sign standards are provided in the PD Agreement (Section 6.6). Signs will be reviewed as part of a sign permit application.

#### **Hartland Township DPW Review**

Please see the review letter from the Hartland Township DPW Director dated September 30, 2021. DPW approves the final plans subject to the contingencies noted in his letter.

#### **Township Engineer's Review**

Please see the review letter from Hubbell, Roth, and Clark (HRC) dated September 28, 2021. The Engineer recommends site plan approval subject to some items being addressed on the construction plans which they will review following site plan approval.

#### **Hartland Deerfield Fire Authority Review**

Please see the review letter from the Fire Marshal's office dated September 15, 2021. The Fire Authority recommends approval with some changes, as outlined in the letter.

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#### **Attachments:**

- 1. Hartland Township DPW, Review letter dated September 30, 2021 PDF version provided
- 2. Hartland Township Engineer (HRC) Review letter dated September 28, 2021 PDF version provided
- 3. Hartland Deerfield Fire Authority Review letter dated September 15, 2021 PDF version provided
- 4. Digital Materials Board PDF version provided
- 5. Exterior Renderings dated September 9, 2021 PDF version provided
- 6. Façade Materials Calculations E & S, dated September 30, 2021 PDF version provided
- 7. Façade Materials Calculations N & W, dated September 30, 2021 PDF version provided
- 8. Specification Sheet for Wall Pack PDF version provided
- 9. Hartland Towne Square PD Setbacks from Pattern Book-PDF version provided
- 10. Final Plan and Landscape Plan Hartland Towne Square dated June 18, 2008 PDF version provided
- 11. Site Plans dated August 23, 2021

CC:

Rick Anthony, RPT

HRC, Twp Engineer (via email)
M. Luce, Twp DPW Director (via email)
A. Carroll, Hartland FD Fire Chief (via email)

T:\PLANNING DEPARTMENT\PLANNING COMMISSION\2021 Planning Commission Activity\Site Plan Applications\SP #21-014 multi tenant with drive thru Hartland Towne Square\Staff Reports\SP #21-014 staff report PC 10.07.2021.docx



#### **DEPARTMENT OF PUBLIC WORKS**

Michael Luce, Public Works Director 2655 Clark Road Hartland MI 48353 Phone: (810) 632-7498

TO: Planning Department

DATE: 09/30/2021

DEVELOPMENT NAME: Hartland Town Square Lots 10 &11 PIN#: 4708-21-400-077 / 4708-21-400-056

APPLICATION #: 21-014

REVIEW TYPE: Preliminary Site Plan

The Department of Public Works (DPW) has reviewed the site plans for the proposed Hartland Town Square lot's 10 & 11. This retail building is comprised of 4 retail spaces one being 2,228 sq ft and three being 1,913 sq ft. Tenant suite #1 would require 3.42 REU's with each additional tenant suite requiring .28 REU's per suite. As the suites are built out and occupied Public Works will be required to re-assess the REU's needed for the use of each suite. This development would require 4.25 Water and 4.25 Sewer REUs. Parcel 4708-21-400-056 currently has 1 REU assigned to it.

	Sewer REUs	Water REUs	
Owned	1	1	
Required	4.25	4.25	
# REUs Needed	3.25	3.25	
Cost Each	\$9,439.20	\$5,816.01	
Total Due Each	\$30,677.40	\$18,902.03	
TOTAL REU COST	\$49,579.43		

Public Works approves the above plans subject to applicant securing the required number of REUs and the inclusion of the following details on the site plans and construction plans:

- 1. All Utility easements noted as public.
- 2. Notes to indicate that all existing utility infrastructure within the development envelope will be required to be upgraded to the current design and engineering standards.
- 3. All Sewer and Storm must meet Livingston County Drain Commission specs and standards.

Prior to interior construction, applicant will be required to purchase a 2" water meter from the Township. Please contact the Public Works Department (810-632-7498) to purchase the water meter.

Please feel free to contact me with any further questions or comments regarding this matter, and thank you for your time.

Michael Luce

**Public Works Director** 



STREET: 105 W. Grand River

Howell, MI 48843

PHONE: 517-552-9199 WEBSITE: hrcengr.com

HRC Job No. 20210859.02

September 28, 2021

Hartland Township 2655 Clark Road Hartland, MI 48353

Attn: Mr. Troy Langer, Planning Director

Re: Preliminary Site Plan Review

Hartland Towne Square – Lots 10 & 11

Section 21, Hartland Township

Dear Mr. Langer:

As requested, this office has reviewed the plans for the above project as prepared by PEA Group (plans dated August 23, 2021) The proposed project is located on Outlot 10 and 11 in Hartland Towne Square. The following items will need to be addressed:

#### General

- 1. All permits are to be obtained prior to the start of construction. At this time, the permits for this development may include: Livingston County Building & Utility Services, LCDC Soil Erosion, and Hartland Township Water Service.
- 2. All applicable Hartland Township standard detail sheets shall be attached to the plans.

## Water Supply

- 1. All proposed water supply improvements must be designed in accordance with Hartland Township Engineering Design Standards.
- 2. It appears that only a water service is proposed for this development and that no new fire hydrants are proposed. The proposed firefighting ability of the site will require the review and approval of the Hartland Deerfield Fire Authority. Additional water main and fire hydrant coverage may be required.

#### Sanitary Sewer

1. All proposed sanitary sewer lead improvements must be designed in accordance with the current standards of the Livingston County Drain Commissioner's Office and will require their review and permitting.

517-292-1488



## Storm Drainage

- 1. The proposed storm water collection system must be designed in accordance with Hartland Township Engineering Design Standards.
- 2. Storm water detention for this site has been accounted for in the construction of the Hartland Towne Square development. Therefore, onsite detention is not required.

## Paving & Grading

1. The proposed paving and grading improvements must be designed in accordance with Hartland Township Engineering Design Standards.

Subject to these items being addressed in the construction plans, we have no objection to the approval of the site plan. One (1) complete set of the construction plans should be submitted to the Township Planning Department for review.

If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

Michael P. Darga, P.E.

MPD/mpd

pc: Hartland Twp; B. West M. Wyatt

HRC; R. Alix, T. Pietila

## HARTLAND DEERFIELD FIRE AUTHORITY



## FIRE MARSHALS OFFICE

Hartland Area Fire Dept. 3205 Hartland Road Hartland, Ml. 48353-1825

E-Mail: jwhitbeck@hartlandareafire.com

Voice: (810) 632-7676

To: Hartland Township Planning Commission

Attn: Zoning Department

Re: Hartland Towne Square Retail Strip Request for Site Plan Review

Hartland Square Drive, Hartland MI 48353

September 15, 2021

This office has reviewed the Hartland Plaza Site Plan dated 08-23-21 and received from the Hartland Township Planning Commission by email on September 15, 2021.

We have the following comments regarding both Unit #1 through Unit #4.

- 1. An address visible from the center of Highland Rd. right-of-way. (Ordinance #77-505.1)
- 2. As it is already serviced by municipal water, we highly recommend evaluating the cost comparison and numerous substantial advantages to a fire suppression system throughout the building. Aside from the obvious protection of life and property, there are many cost savings in construction, along with insurance cost savings that will exceed the cost of the system day one or over the next few years.
- 3. All emergency lighting and exit signage to be wired to a dedicated and labeled circuit breaker. (Ordinance #77-506.1.2)
- 4. A Supra Brand lock box to be installed prior to obtaining the certificate of occupancy. An order form can be supplied by the Fire Department to be ordered. (Ordinance #77-506.1)
- 5. A LadderPort Ladder Receiver (Type 1, Type 2, Type 3 or Type 4) would be installed for equipment and/or appliances installed on the rooftop, in a location as agreed upon by this office. (MBC306.5 & Ordinance #77-5401.1) Exception: If the commercial building is 100% protected by an approved automatic fire suppression system, the access may be located in the interior of the building. (Ordinance #77-504.1.1.1)
- 6. If the occupancies are required to have a commercial hood system those plans for a Commercial Hood Suppression System shall be submitted to Brighton Fire Department for review. Once approved the set of plans shall be picked up and taken to the Livingston County Building Department to pull a permit. \*Note: UL300 system tests will be conducted with a "wet test" using an agent recommended by the manufacturer. (Ordinance #77-105.7.1.1)
- 7. Once structural work is complete, contact this office to schedule an Emergency Services Communications Test, the results of which may require a bi-directional amplifier be installed for interior emergency communications. (Ordinance #77-509)
- 8. Ensure that all corners are serviceable by the turning radius requirements for our apparatus. Requirements can be sent separately in an attached document.
- 9. The street name will have to be confirmed for the alarm system to send the proper signal for dispatch to correctly notify emergency services.
- 10. A final walk through shall be required to inspect all emergency systems are in proper working order and the keys to the occupancy are in the Rapid Entry box to receive a CO.

The Fire Marshal's office approves with the above contingencies the submittal. Any revised drawings affecting the Fire Department must be submitted for review.

Yours In Fire Safety,

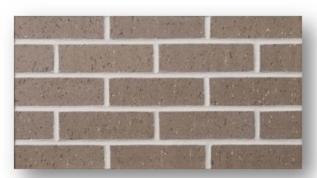
Jenn Whitbeck



NICHIHA FIBER CEMENT SIDING VINTAGE WOOD SERIES - BARK



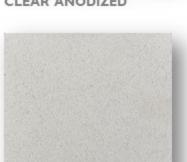
GLEN GERY BRICK CASTILE GRAY VELOUR



GLEN GERY BRICK CHARCOAL GRAY VELOUR



ATAS PREFIN. METAL. PANEL CLEAR ANODIZED



ROCK CAST ACCENT BAND CRYSTAL WHITE



GRAND BLANC SPLIT FACE CMU IRONWOOD



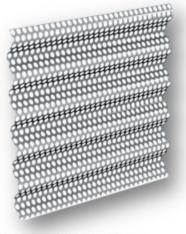
CANVAS AWNING BLACK



INSULATED GLAZING CLEAR



TUBELITE STOREFRONT DARK BRONZE ANODIZED



PAC-CLAD PETERSEN
PERFORATED METAL SIDING
CLEAR ANODIZED



ARCHITECTURE DESIGN











1 EAST ELEVATION
A5.00 SCALE: 1/4 " = 1'-0"

TOTAL EAST ELEVATION AREA = 2694.1			
MATERIAL	AREA	COVERAGE	
SPLIT-FACE CMU	45.1	2%	
CAST STONE	47	2%	
BRICK	1431.1	53%	
WOOD-LOOK SIDING	71.1	3%	
METAL	0	0%	
PERFORATED METAL	146.6	5%	
STOREFRONT	953.2	35%	



2 SOUTH ELEVATION
A5.00 A5.00 SCALE: ½ " = 1'-0"

TOTAL SOUTH ELEV	1609.75	
MATERIAL	AREA	COVERAGE
PLIT-FACE CMU	125.3	8%
AST STONE	41.8	3%
RICK	1189	74%
OOD-LOOK SIDING	0	0%
ETAL	10.75	1%
RFORATED METAL	133	8%
TOREFRONT	109.9	7%
	<u> </u>	· · · · · · · · · · · · · · · · · · ·

CONSULTANT + NAME

BOWERS+ASSOCIATES

ARCHITECTURE DESIGN

2400 SOUTH HURON PARKWAY + ANN ARBOR, MI 48104

P: 734.975.2400 + F: 734.975.2410

www.BowersArch.com

PROJECT + INFORMATION
HARTLAND TOWNE SQUARE
LOT 10 & 11

**LEGEND** 

SPLIT FACE CMU

CAST STONE

WOOD-LOOK SIDING

PERFORATED METAL

BRICK

PROJECT + NUMBER

ISSUE + DATE 30 SEP 2021

SHEET + TITLE

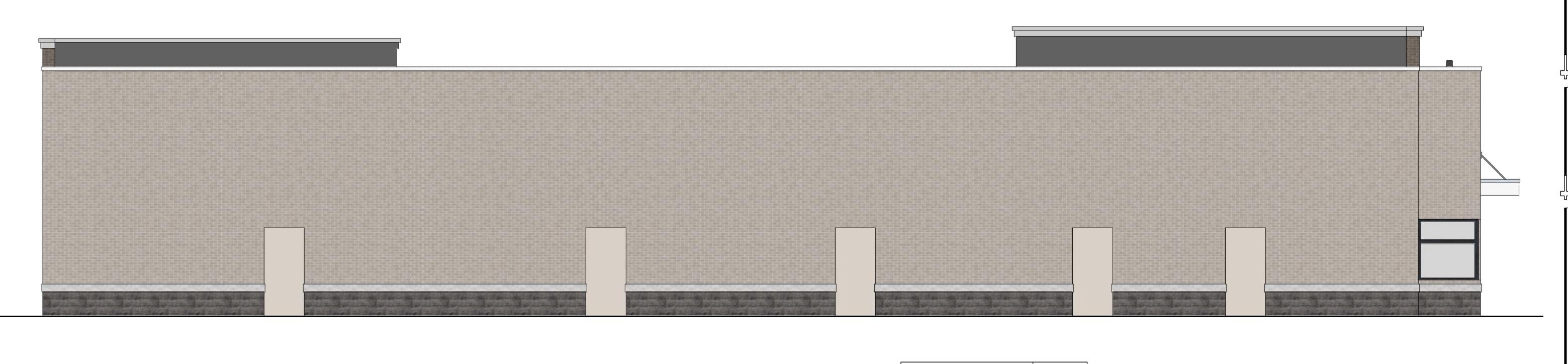
RENDERED

ELEVATIONS

19300A500R.dwg

SHEET + NUMBER

A5.00R



WEST ELEVATION

TOTAL WEST ELEV	20665.24	
MATERIAL	AREA	COVERAGE
SPLIT-FACE CMU	18541.96	90%
CAST STONE	64.88	0%
BRICK	1936.2	9%
WOOD-LOOK SIDING	0	0%
METAL	122.2	1%
PERFORATED METAL	0	0%
STOREFRONT	0	0%



A5.01 A5.01 SCALE: 1/4 " =

7	2	NORTH ELEVATION	
5.01	A5.01	SCALE: ½ " = 1'-0"	

TOTAL NORTH ELEV	1449.21	
MATERIAL	AREA	COVERAGE
SPLIT-FACE CMU	113.66	8%
CAST STONE	36.75	3%
BRICK	1127.8	78%
WOOD-LOOK SIDING	24.4	2%
METAL	0	0%
PERFORATED METAL	0	0%
STOREFRONT	146.6	10%

	BOWERSARCH.COM  ARBHITEBTURE DESIGN  2400 SOUTH HURON PARKWAY + ANN ARBOR, MI 48104 P: 734.975.2400 + F: 734.975.2410  www.BowersArch.com
	CONSULTANT + NAME
SEND  SPLIT FACE CMU  CAST STONE	PROJECT + INFORMATION HARTLAND TOWNE SQUARE LOT 10 & 11 HARTLAND TOWNSHIP, MI
BRICK WOOD-LOOK SIDING	PROJECT + NUMBER
METAL C	19-300
PERFORATED METAL	ISSUE + DATE 30 SEP 2021
STOREFRONT	
	SHEET + TITLE  RENDERED  ELEVATIONS
С	19300A500R.dwg
	19300A500R.dwg  SHEET + NUMBER  A5.01R

<u>LEGEND</u>



## WDGE1 LED

Architectural Wall Sconce





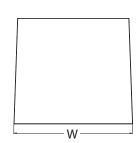


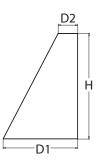




#### **Specifications**

Depth (D1): 5.5" Depth (D2): 1.5" Height: 8" Width: Q١١ Weight: 9 lbs (without options)





#### Catalog

Notes

Туре

#### Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

#### **WDGE LED Family Overview**

Luminaire	Standard EM 0°C	Cald FM 20°C	Canada	Lumens (4000K)									
Lummaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	P1	P2	P3	P4	P5	P6				
WDGE1 LED	4W			1,200	2,000								
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000					
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000						
WDGE4 LED			Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000				

#### **Ordering Information**

#### **EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD**

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P1 P2	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K <sup>1</sup> 5000K	80CRI 90CRI	VF Visual comfort forward throw VW Visual comfort wide	MVOLT 347 <sup>2</sup>	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) <sup>5</sup> Shipped separately AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.

Options		Finish			
E4WH <sup>3</sup>	Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)	DDBXD	Dark bronze	DDBTXD	Textured dark bronze
PE⁴	Photocell, Button Type	DBLXD	Black	DBLBXD	Textured black
DS	Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)	DNAXD	Natural aluminum	DNATXD	Textured natural aluminum
DMG	0–10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DWHXD	White	DWHGXD	Textured white
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DSSXD	Sandstone	DSSTXD	Textured sandstone

#### Accessories

COMMERCIAL OUTDOOR

WDGFAWS DDBXD WDGE 3/8inch Architectural Wall Spacer (specify finish) WDGE1PBBW DDBXD U WDGE1 surface-mounted back box (specify finish)

#### NOTES

- 1 50K not available in 90CRI.
- 347V not available with E4WH, DS or PE.
- E4WH not available with PE or DS.
- 4 PE not available with DS.
- Not qualified for DLC. Not available with E4WH.



#### **Performance Data**

#### **Lumen Output**

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

	Performance	System	Diet Type	27	K (2700K	, 80 Cl	RI)		30	K (3000K	, 80 C			35	K (3500K	, 80 C	RI)		40	K (4000K	, 80 C	RI)		50	K (5000K	, 80 C	RI)	
	Package	Watts	Dist. Type	Lumens	LPW	В	U	G	Lumens	LPW		U	G	Lumens	LPW	В	U	G	Lumens	LPW		U		Lumens	LPW	В		G
	P1	1014/	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
	rı	10W	VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
	D2	1514/	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
l	P2	15W	VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

#### **Electrical Load**

Performance	System Watts	Current (A)										
Package	System watts	120V	208V	240V	277V	347V						
P1	10W	0.082	0.049	0.043	0.038							
rı	13W					0.046						
D2	15W	0.132	0.081	0.072	0.064							
P2	18W					0.056						

#### **Lumen Multiplier for 90CRI**

ССТ	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

#### Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
F4WH	VF	646
E4WH	VW	647

#### **Lumen Ambient Temperature (LAT) Multipliers**

Use these factors to determine relative lumen output for average ambient temperatures from 0-40  $^{\circ}C$  (32-104  $^{\circ}F).$ 

Amb	Lumen Multiplier				
0°C	32°F	1.03			
10°C	50°F	1.02			
20°C	68°F	1.01			
25°C	77°F	1.00			
30°C	86°F	0.99			
40°C	104°F	0.98			

#### **Projected LED Lumen Maintenance**

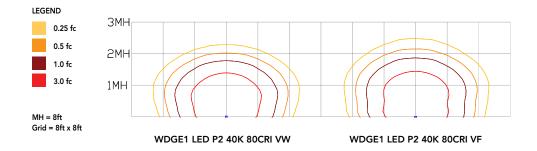
Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

#### **Photometric Diagrams**

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.



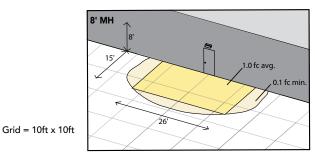
#### **Emergency Egress Options**

#### **Emergency Battery Backup**

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC - section 700.16, NFPA 101 Life Safety Code Section 7.9

The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.



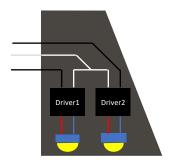
WDGE1 LED xx 40K 80CRI VF MVOLT E4WH

#### **Dual Switching (DS) Option**

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

COMMERCIAL OUTDOOR





#### **Mounting, Options & Accessories**



E4WH - 4W Emergency Battery Backup

H = 8"

W = 9"



#### AWS - 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"



**PBBW - Surface-Mounted Back Box** Use when there is no junction box available.

D = 1.75"

H = 8"

W = 9"

#### **FEATURES & SPECIFICATIONS**

#### INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

#### **FINISH**

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly  $^{\text{TM}}$ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

#### **ELECTRICAL**

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE

COMMERCIAL OUTDOOR

#### INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List PL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

#### **BUY AMERICAN**

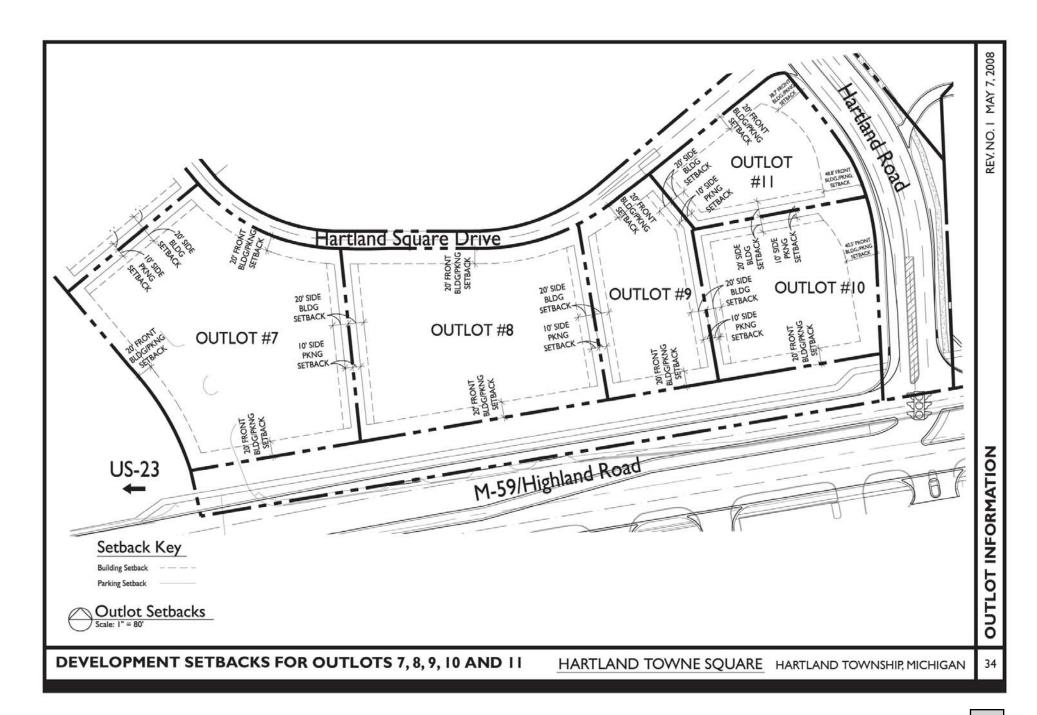
This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to wv an for additional information.

#### WARRANTY

5-year limited warranty. Complete warranty terms located at: w.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



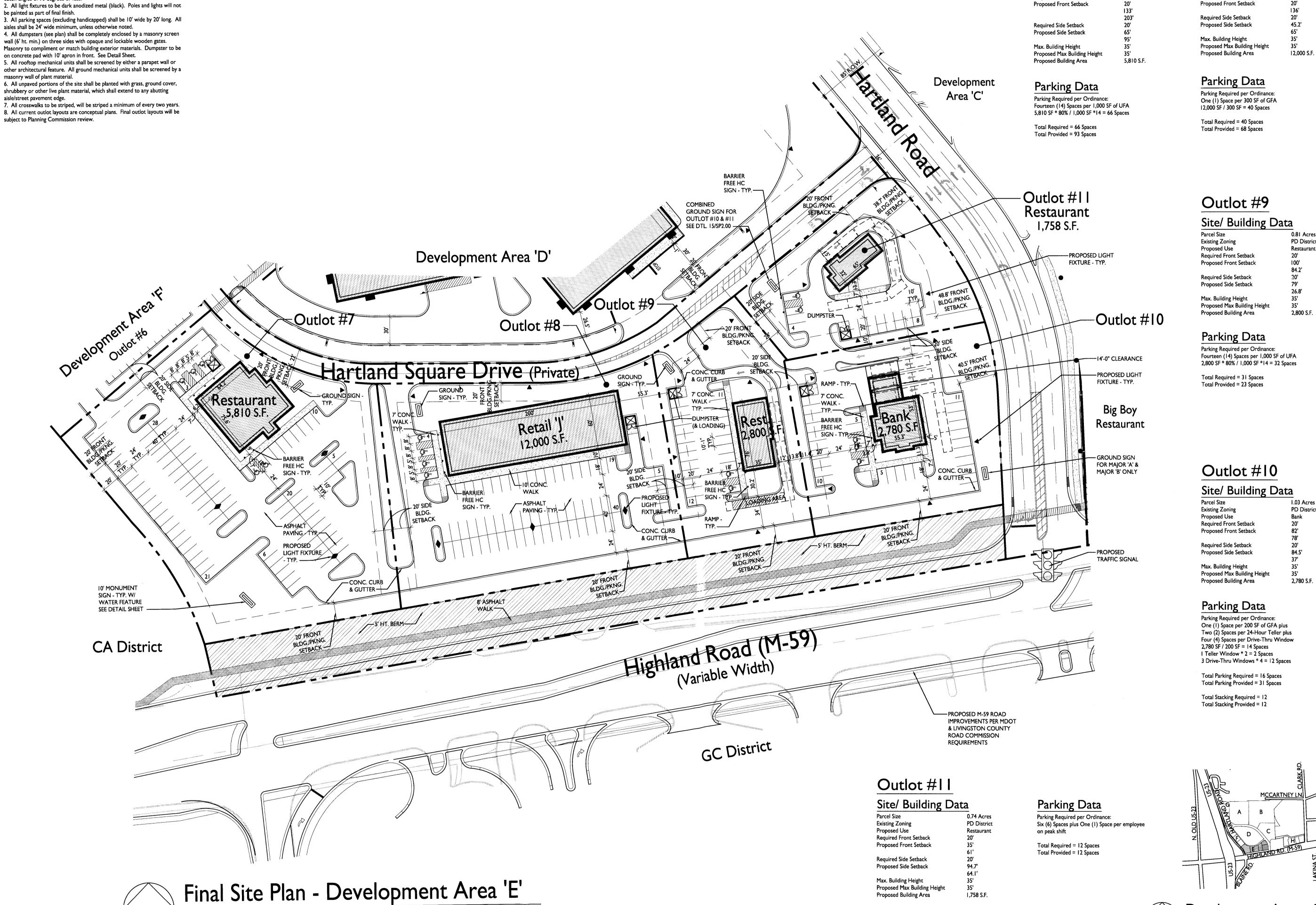


## Outlots #7 - #11

## General Notes

- I. All outdoor lights shall be shielded to reduce glare and shall be arranged to not interfere with the vision of persons on adjacent roadways or property. Maximum height to be 28 feet. The proposed light fixtures shall have luminance cutoff angles of 90 degrees or less.
- 2. All light fixtures to be dark anodized metal (black). Poles and lights will not be painted as part of final finish.
- aisles shall be 24' wide minimum, unless otherwise noted. 4. All dumpsters (see plan) shall be completely enclosed by a masonry screen
- Masonry to compliment or match building exterior materials. Dumpster to be on concrete pad with 10' apron in front. See Detail Sheet.
- other architectural feature. All ground mechanical units shall be screened by a masonry wall of plant material.
- 6. All unpaved portions of the site shall be planted with grass, ground cover, shrubbery or other live plant material, which shall extend to any abutting aisle/street pavement edge.
- 7. All crosswalks to be striped, will be striped a minimum of every two years. 8. All current outlot layouts are conceptual plans. Final outlot layouts will be

Scale: I" = 50'



## Outlot #8

Outlot #7

Parcel Size

Existing Zoning

Proposed Use

Required Front Setback

Site/ Building Data

PD District

Restaurant

## Site/ Building Data

PD District Existing Zoning Proposed Use Required Front Setback **Proposed Front Setback** 

PD District Restaurant 100'

Max. Building Height Proposed Max Building Height Proposed Building Area 1,758 S.F.

Development Area - Site Key Not to Scale

BOWERSFIEIN

RAMCO GERSHENSON PROPERTIES TRUST

0 0

Project + Number 07-001

Issue + Date AUG. 30, 2007 OCT. 25, 2007 NOV. 27, 2007 DEC. 19, 2007 JAN. 8, 2008 JAN. 15, 2008 FEB. 7, 2008

FINAL SITE FEB. 26, 2008 FINAL SITE MAR. 11, 2008 MAY 7, 2008 JUNE 18, 2008 REV. NO. 3

Sheet + Title SITE PLAN -DEVELOPMENT AREA 'E' 7001z10ac.dwg

Sheet + Number

SP1.04

#### General Notes 9. Any discrepancies between dimensioned layout and actual field conditions 1. The contractor shall verify all rights of way, easments, property lines and limits of work, etc. prior to commencing work. shall be reported to the owner's representative and landscape architect. Failure to make such discrepancies known will result in contractor's 2. The contractor shall be responsible for contacting and coordinating responsibility and liability for any changes and associated cost. with all pertinent utility companies 72 hours in advance of any construction. 10. The contractor shall be responsible for any coordination with subcontractors as The contractor shall take sole responsibility for any cost incurred due to required to accomplish construction installation operations. damage of said utilities. 11. Landscape contractor to install automatic irrigation system as part of 3. All planting beds and landscape islands shall have 4" minimum depth of shredded contract and provide as-built drawing. All landscape areas and islands to be irrigated. hardwood bark over black, water permeable landscape fabric. 12. All lawn areas to be sodded, unless otherwise noted. 4. All multi-stemmed trees shall be heavily branched and have symmetrical crowns. One sided trees or those with thin or open crowns shall not 13. The contractor shall be responsible for any existing materials the are damaged be accepted. 5. All single trunk shade trees to have straight and symmetrical crowns with 14. The proposed vegetation shall be maintained in a healthy, neat and orderly a central leader. Trees with forked or irregular trunks shall not be appearance; free of refuse and debris and meet current standards. All broken, unhealthy and dead plant materials shall be replaced as soon as is feasible by the Owner. 6. All evergreen trees shall be fully to the ground, symmetrical in shape and not sheared in the last five (5) growing seasons. 15. The contractor shall coordinate lawn repair in conjunction with demolition 7. It is mandatory that positive drainage be provided away from the building; work by others. specifically in the lawn areas around the building. 16. All trees to be installed 10 feet minimum away from utility structures. 8. The contractor shall not proceed with construction as designed when it is obvious that obstructions and/ or grade differences exist. Such conditions shall be immediately brought to the attention of the owner's representative and/ or landscape architect. The contractor shall assume full responsibility for all necessary revisions due failure to give such notification. Plant List SCIENTIFIC NAME A. rubrum 'Red Sunset' COMMON NAM 3 cal., B+B A. saccharum 'Legacy' Sugar Maple 3 cal., B+B T. americana 'Redmond' Redmond Linden 3" cal., B+B P. calleryana 'Aristocrat' Aristocrat Callery Pear 6' Ht., B+B White Spruce Picea glauca 8' Ht., B+B White Spruce Picea glauca 10' Ht., B+B White Spruce Picea glauca 6' Ht., B+B Picea abies Norway Spruce 8' Ht., B+B Picea abies Norway Spruce 10' Ht., B+B Picea abies Norway Spruce Malus cv. 'Prairifire' 2" cal., B+B Prairifire Crab 12' Ht., B+B Amelanchier canadensis Shadblow Serviceberry 2" cal., B+B Malus cv. 'Donald Wyman' Donald Wyman Crab V. trilobum 'Bailey Compact' 24" Ht. + Spread Compact Amer. Cran. Viburnum Fothergilla gardenii 24" Ht. + Spread **Dwarf Fothergillia** 24" Ht. + Spread S. x. bumalda 'Norman' Norman Spirea 5 gal., 5' O.C. J. sabina 'Broadmoor' Broadmoor Junipe Taxus x. densiformis 24" Ht. + Spread Rosa 'Nearly Wild' 3 gallon cont. Shrub Roses 24" Ht. + Spread E. alatus 'compactus' Burning Bush SEE SIGN PLANTING Landscape Requirements - Outlot #11 DETAIL ON LP2.00 · Adjacent to Roads Required: One (I) Deciduous / Evergreen Tree per 40 LF / Road plus One (I) Ornamental Tree per 80 LF / Road plus Eight (8) shrubs per 40 LF / Road 170 LF / Hartland Square Drive Frontage = 170 LF / 40 LF = 5 Trees (Deciduous or Evergreen) 170 LF / 80 LF = 3 Ornamental Trees 170 LF / 40 LF x 8 = 34 Shrubs 185 LF / Hartland Road Frontage = 185 LF / 40 LF = 5 Trees (Deciduous or Evergreen) Bank 叫 185 LF / 80 LF = 3 Ornamental Trees 11/2/180/S.F. 185 LF / 40 LF x 8 = 37 Shrubs 2 800 S.F. Berm Requirements Required: Area adjacent to a public right-of-way (M-59) shall be Outlot #9 required to have a berm. Berm shall be minimum of three feet Development (3') in height. utlot 0.81 Acres Provided: Berm (3' ht. min.) has been provided along M-59 except where prohibited due to vehicle sight distance as required by the Livingston County Road Commission. Parking Lot Landscaping Area Required: Ten (10) SF of Landscaped Area per Parking Space 12 Spaces x 10 SF = 120 SF Total Required: 120 SF Area Provided: 635 SF Vegetation Required: One (I) Tree per 320 SF / Area + 50% of the islands must be sod, shrubs, etc. 635 SF / 320 SF = 2 Trees Trees Required = 2 Trees Open Space Landscaping Area Required: One (1) Tree per 3,000 SF of Open Space 17,250 SF / 3,000 SF \* (1) Tree = 6 Trees NOTE: ALL LANDSCAPE AREAS AND ISLANDS TO BE Total Required: 6 Trees Total Required: 18 Deciduous/Evergreen Trees IRRIGATED - TYP. 6 Ornamental Trees Total Provided: 19 Deciduous/Evergreen Trees 6 Ornamental Trees 89 Shrubs WHERE PROHIBITED DUETO VEHICLE SIGHT DISTANCE AS REQUIRED BY THE LIVINGSTON-COUNTY ROAD COMMISSION) - TYP. SEE DETAIL TISP2-01 (ALSO SEEPEA DWGS.) IRRIGATION TO EDGE

Scale: I" = 30'

Development Area 'C' HARDWOOD MULCH - BERM ALONG\HARTLAND RD\TO BE 3' MIN. HT. (EXCEPT\WHERE) PROHIBITED DUE TO VEHICLE SIGHT DISTANCE AS REQUIRED BY THE LINNIGSTON COUNTY ROAD COMMISSION) - TYP SEE DETAIL NSP2.01 (ALSO SEE PEA DWGS.) IRRIGATION TO EDGE OF PAVEMENT WITHIN HARTLAND ROAD R.O.W. AND EDGE OF PARKING LOT. LINE PER LCRC STANDARDS 4" \$HREDDED / HARDWOOD DETAIL ON 12,00 BE IRRIGATED Highland Road (M-59)
(Variable Width) OF PAVEMENT WITHIN M-59 R.O.W. AND EDGE Landscape Plan - Outlots #9 - #11 PROPOSED M-59 ROAD Development Area 'E' IMPROVEMENTS PER MOOT & LIVINGSTON COUNTY

**GC** District

Landscape Requirements - Outlot #9

Adjacent to Roads
Required: One (I) Deciduous / Evergreen Tree per 40 LF / Road plus One (I) Ornamental Tree per 80 LF / Road plus

Eight (8) shrubs per 40 LF / Road

160 LF / Hartland Square Drive Frontage = 160 LF / 40 LF = 4 Trees (Deciduous or Evergreen) 160 LF / 80 LF = 2 Ornamental Trees

160 LF / 40 LF  $\times$  8 = 32 Shrubs 146 LF / Highland Road (M-59) Frontage =

146 LF / 40 LF = 4 Trees (Deciduous or Evergreen) 146 LF / 80 LF = 2 Ornamental Trees 146 LF / 40 LF x 8 = 30 Shrubs

Berm Requirements
Required: Area adjacent to a public right-of-way (Hartland Road) shall be required to have a berm. Berm shall be minimum of three feet

Provided: Berm (3' ht. min.) has been provided along Hartland Road except where prohibited due to vehicle sight distance as required by the Livingston County Road Commission.

Parking Lot Landscaping
Area Required: Ten (10) SF of Landscaped Area per Parking Space 23 Spaces x 10 SF = 230 SF Total Required: 230 SF

Area Provided: 604 SF

Vegetation Required: One (I) Tree per 320 SF / Area + 50% of the islands must be sod, shrubs, etc. 604 SF / 320 SF = 2 Trees Trees Required = 2 Trees

Open Space Landscaping
Area Required: One (1) Tree per 3,000 SF of Open Space 14,370 SF / 3,000 SF \* (1) Tree = 5 Trees Total Required: 5 Trees

Total Required: 15 Deciduous/Evergreen Trees 4 Ornamental Trees Total Provided: 18 Deciduous/Evergreen Trees 4 Ornamental Trees 65 Shrubs

## Landscape Requirements - Outlot #10

Adjacent to Roads
Required: One (I) Deciduous / Evergreen Tree per 40 LF / Road plus One (1) Ornamental Tree per 80 LF / Road plus Eight (8) shrubs per 40 LF / Road

> 205 LF / Hartland Road Frontage = 205 LF / 40 LF = 6 Trees (Deciduous or Evergreen) 205 LF / 80 LF = 3 Ornamental Trees 205 LF / 40 LF x 8 = 41 Shrubs

222 LF / Highland Road (M-59) Frontage = 222 LF / 40 LF = 6 Trees (Deciduous or Evergreen) 222 LF / 80 LF = 3 Ornamental Trees 222 LF / 40 LF x 8 = 45 Shrubs

Berm Requirements
Required: Area adjacent to a public right-of-way (Hartland Road) shall be required to have a berm. Berm shall be minimum of three feet

Provided: Berm (3' ht. min.) has been provided along Hartland Road except where prohibited due to vehicle sight distance as required by the

Parking Lot Landscaping
Area Required: Ten (10) SF of Landscaped Area per Parking Space 31 Spaces x 10 SF = 310 SF Total Required: 310 SF

Area Provided: 1,010 SF Vegetation Required: One (1) Tree per 320 SF / Area + 50% of the islands

must be sod, shrubs, etc. 1,010 SF / 320 SF = 4 Trees Trees Required = 4 Trees

Open Space Landscaping
Area Required: One (1) Tree per 3,000 SF of Open Space 15,166 SF / 3,000 SF \* (1) Tree = 6 Trees Total Required: 6 Trees

Total Required: 22 Deciduous/Evergreen Trees 6 Ornamental Trees 86 Shrubs Total Provided: 28 Deciduous/Evergreen Trees 9 Ornamental Trees

92 Shrubs

MCCARTNEY LN.

Development Area - Site Key Not to Scale

ROAD COMMISSION

REQUIREMENTS

RAMCO GERSHEI

S HAR

 $\boldsymbol{\mathcal{L}}$ 

Project + Number 07-001

Issue + Date AUGUST 30, 2007 OCT. 25, 2007 NOV. 27, 2007 DEC. 19, 2007 JAN. 8, 2008 JAN. 15, 2008 FEB. 7, 2008 FINAL SITE FEB. 26, 2008 FINAL SITE MAR. 11, 2008 MAY 29, 2008 LCRC REV. JUNE 18, 2008 REV. NO. 3

> Sheet + Title LANDSCAPE PLAN -OUTLOTS #9 - #11 7001L10a.dwg

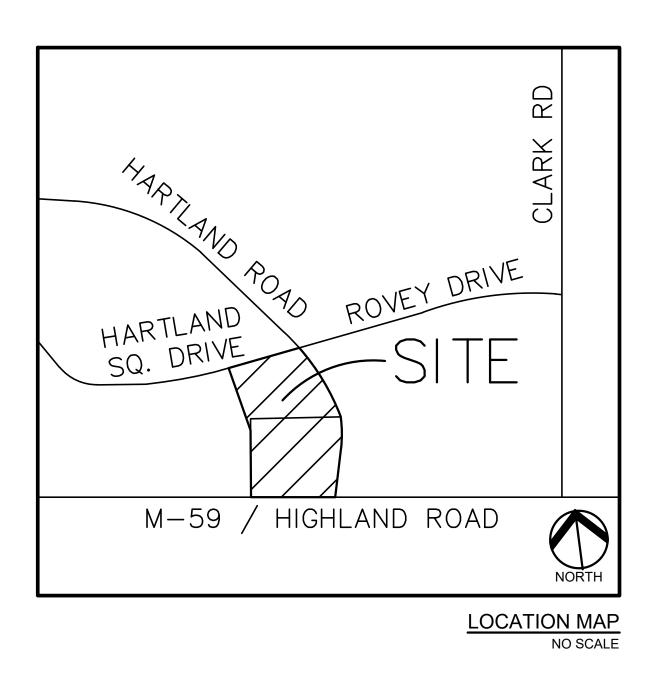
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# LOTS 10 & 11 HARTLAND TOWNE SQUARE

PART OF THE SOUTH 1/2 OF SECTION 21, T3N-R6E HARTLAND, LIVINGSTON, MICHGIAN



	SHEET INDEX
SHEET NUMBER	SHEET TITLE
C-0.0	COVER SHEET
C-1.0	TOPOGRAPHIC SURVEY
C-3.0	PRELIMINARY DIMENSION PLAN
C-4.0	PRELIMINARY GRADING PLAN
C-5.0	PRELIMINARY SESC PLAN
C-6.0	PRELIMINARY UTILITY PLAN
C-9.0	NOTES AND DETAILS
L-1.0	PRELIMINARY LANDSCAPE PLAN
SL-1.1	PHOTOMETRIC PLAN
SL-1.2	PHOTOMETRIC DETAILS
	ARCHITECTURAL
SP1.01	SITE DETAILS
A1.00 A3.00	FLOOR PLAN ROOF PLAN
A5.00	EXTERIOR ELEVATIONS
A5.01	EXTERIOR ELEVATIONS

## **DESIGN TEAM**

OWNER/APPLICANT/DEVELOPER CIVIL ENGINEER

AFFINITY 8 INVESTMENTS, LLC 1721 MAPLELANE AVE HAZEL PARK, MI 48030 CONTACT: THOMAS HANNAWA PHONE: 248.361.1666 EMAIL: THOMASHANNAWA@GMAIL.COM

ARCHITECT

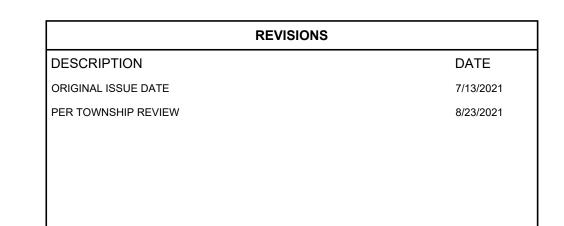
BOWERS + ASSOCIATES, INC. 2400 S. HURON PARKWAY ANN ARBOR, MI 48104 CONTACT: SUSAN BOWERS RA, LEED AP. CONTACT: JANET EVANS, PLA PHONE: 734.975.2400 EXT. 701 EMAIL: SUSANB@BOWERSARCH.COM

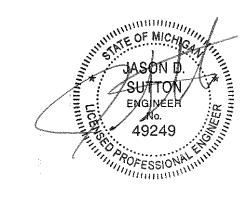
PEA GROUP 2430 ROCHESTER COURT, STE. 100 TROY, MI 48083-1872 CONTACT: JASON SUTTON, PE PHONE: 844.813.2949 EMAIL: JSUTTON@PEAGROUP.COM

## LANDSCAPE ARCHITECT

PEA GROUP 7927 NEMCO WAY, STE. 115 BRIGHTON, MI 48116 PHONE: 844.813.2949 EMAIL: JEVANS@PEAGROUP.COM







BM #300
SET NAIL AND TAG ON NORTH SIDE OF A STRAIN POLE LOCATED APPROX. 60'± WEST OF THE CENTERLINE OF HARTLAND ROAD AND APPROX. 40'± NORTH OF CENTERLINE OF WESTBOUND M-59/HIGHLAND ROAD,

SET DIMPLE ON A HYDRANT ARROW LOCATED APPROX. 35'± WEST OF HARTLAND ROAD AND APPROX. 50'± SOUTH OF ROVEY DRIVE. ELEV. - 978.56

#### FLOODPLAIN NOTE:

BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26093C0238D, DATED 9/17/2008.

#### LEGAL DESCRIPTION

#### PARCEL ID 4708-21-400-056

A parcel of land being a part of the South 1/2 of Section 21, T3N-R6E, Hartland Township, Livingston County, Michigan, being more particularly described as

Commencing at the South 1/4 of said Section 21; thence N 02°55'00" W, 214.93 feet along the North-South 1/4 line (as monumented); thence N 80°05'11" E, 970.62 feet along the North Right-of-Way of M-59 (Highland Road); thence N 10°19'02" W, 60.00 feet to a point on the future North Right-of-Way line of said M-59 (120'-1/2 width), and the POINT OF BEGINNING: thence continuing N 10°19'02" W, 197.43 feet; thence N 78°52'35" E, 226.83 feet; thence 81.13 feet along a curve to the right, said curve having a radius of 313.00 feet, a central angle of 14°51'04", and a chord which bears S 10°27'05" E, 80.90 feet; thence S 03°01'33" E, 122.20 feet to a point on the future

Northerly Right-of-Way line of said Highland Road; thence along said Northerly line, S 80°05'11" W, 211.49 feet to the POINT OF BEGINNING. Containing 1.02 acres of land and subject to easements, conditions, restrictions and exceptions of record or otherwise.

PARCEL ID 4708-21-400-077 (Outlot 11) A parcel of land being a part of the South 1/2 of Section 21, T3N-R6E, Hartland Township, Livingston County, Michigan, being more particularly described as follows:

Commencing at the South 1/4 of said Section 21; thence N 02°55'00" W, 275.38 feet along the North-South 1/4 line (as monumented) to the North 120 foot Right-of-Way of M-59 (Highland Road); thence N 80°05'11" E, 962.84 feet along said North Right-of-Way line to the west line of Parcel 4708-21-400-056, also being the east line of Parcel 4708-21-400-072; thence along said line N 10°19'02" W, 175.30 feet to the POINT OF BEGINNING; thence continuing along said east line of Parcel 4708-21-400-072 N 39°42'06" W, 110.11 feet to the south line of the Hartland Square Drive Easement (width varies); thence along said south line the following five courses and distances: 1) N 52°47'04" E, 39.74 feet; 2) N 50°19'38" E, 44.25 feet; 3) S 40°16'18" E, 10.25 feet; 4) N 51°16'37" E, 110.02 feet to a point of curvature; 5) 50.38 feet along the arc of a curve to the right, said curve having a radius of 40.00 feet, a central angle of 72°10′09″, and a chord that bears N 86°04′04″ E, 47.12 feet to the westerly line of Hartland Road; thence along said westerly line S 39°58'48" E, 40.03 feet to a point of curvature; thence 120.75 feet along the arc of a curve to the right, said curve having a radius of 313.00 feet, a central angle of 22°06′11″, and a chord that bears S 28°55'43" E, 120.00 feet to the north line of said Parcel 4708-21-400-056; thence along said north line S 78°52'35" W, 226.83 feet to the northwest corner of said Parcel 4708-21-400-056; thence S 10°19'02" E, 22.13 feet to the **POINT OF BEGINNING.** Containing 0.71 acres

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-UG-CATV-TV- UNDERGROUND CABLE TV, CATV PEDESTAL

IRON FOUND

MAIL FOUND

Ø NAIL & CAP SET

SEC. CORNER FOUND MONUMENT SET

R RECORDED M MEASURED C CALCULATED

GROUP -OH-ELEC-VV-O- ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE -⊠-UG-PHONE-(T)--- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE -UG-ELEC-ELEC ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE GAS MAIN, VALVE & GAS LINE MARKER
WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE

SANITARY SEWER, CLEANOUT & MANHOLE
STORM SEWER, CLEANOUT & MANHOLE SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN POST INDICATOR VALVE WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF MTI MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE UNIDENTIFIED STRUCTURE SPOT ELEVATION

CONTOUR LINE **\_X** FENCE ☆ STREET LIGHT CONC. -CONCRETE

∕— ASPH. →

GRAVEL SHOULDER ,—GRAVEL nar nar MELTAND

t: 844.813.2949

www.peagroup.com





CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

AFFINITY 8
INVESTMENTS, LLC
1721 MAPLELANE AVENUE

PROJECT TITLE

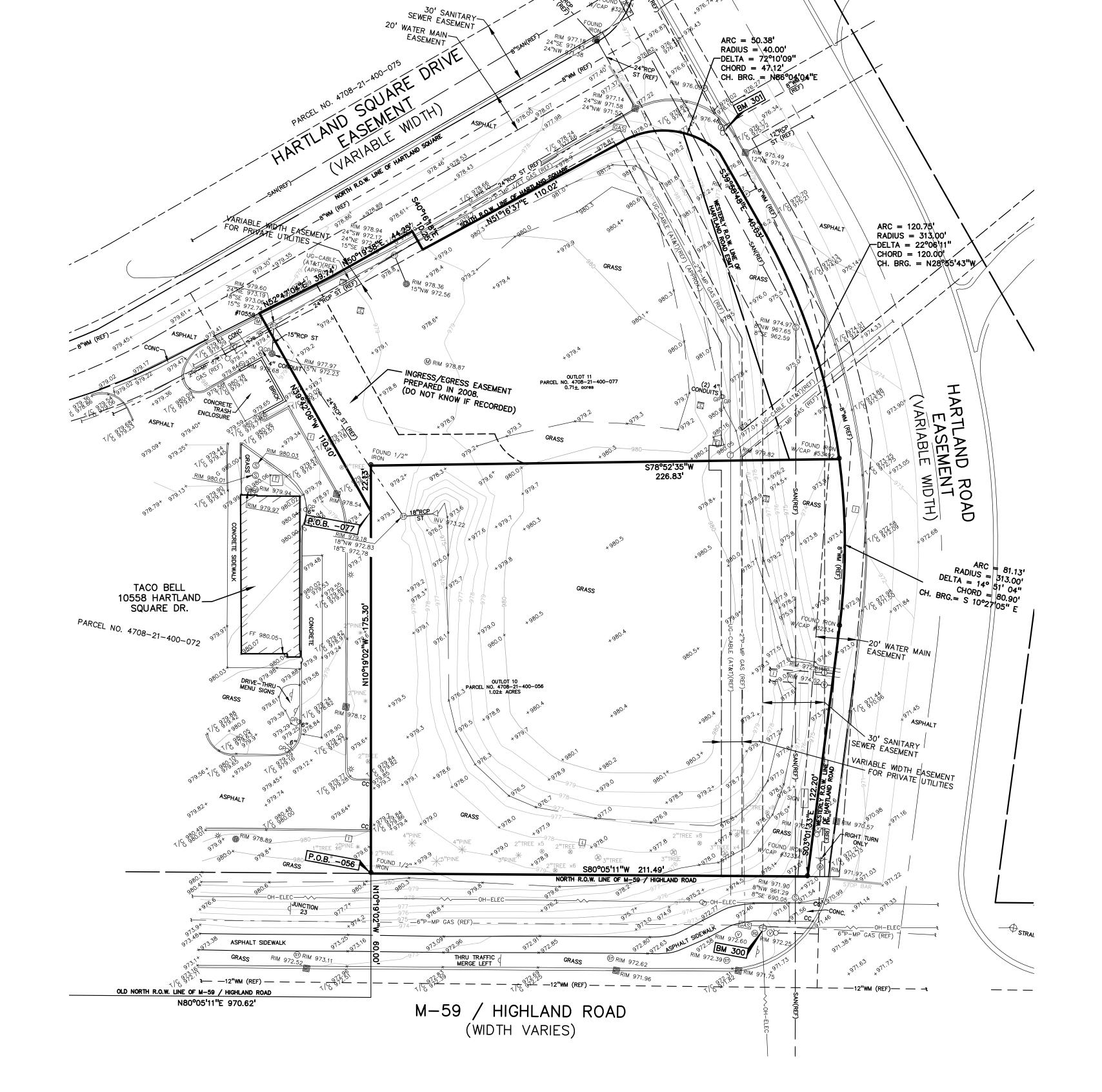
LOTS 10 & 11 HARTLAND TOWNE SQUARE HARTLAND, MICHGIAN

REVISIONS PER TOWNSHIP REVIEW

ORIGINAL ISSUE DATE JULY 13, 2021

**TOPOGRAPHIC SURVEY** 

2018-398 PEA JOB NO. DRAWING NUMBER:



NOT FOR CONSTRUCTION

BM #300 SET NAIL AND TAG ON NORTH SIDE OF A STRAIN POLE LOCATED APPROX. 60'± WEST OF THE CENTERLINE OF HARTLAND ROAD AND APPROX. 40'± NORTH OF CENTERLINE OF WESTBOUND M-59/HIGHLAND ROAD, ELEV. - 972.43

SET DIMPLE ON A HYDRANT ARROW LOCATED APPROX. 35'± WEST OF HARTLAND ROAD AND APPROX. 50'± SOUTH OF ROVEY DRIVE. ELEV. - 978.56

FLOODPLAIN NOTE: BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26093C0238D, DATED 9/17/2008.

SIGN LEGEND: 'NO PARKING FIRE LANE' SIGN

'BARRIER FREE PARKING' SIGN 'VAN ACCESSIBLE' SIGN

DO NOT ENTER' SIGN REFER TO DETAIL SHEET FOR SIGN DETAILS

NOTE:

ALL DIMENSIONS ARE TO BACK OF CURB

#### LEGAL DESCRIPTION

#### PARCEL ID 4708-21-400-056

A parcel of land being a part of the South 1/2 of Section 21, T3N-R6E, Hartland Township, Livingston County, Michigan, being more particularly described as

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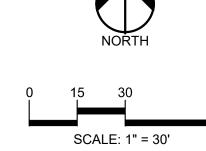
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PARCEL ID 4708-21-400-077 (Outlot 11) A parcel of land being a part of the South 1/2 of Section 21, T3N-R6E, Hartland Township, Livingston County, Michigan, being more particularly described as follows:

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**LEGEND** IRON FOUND BRASS PLUG SET
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,—GRAVEL →



GROUP

t: 844.813.2949

www.peagroup.com

49249



CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERCUTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXPORT THE TO SHAPE TO DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

**AFFINITY 8** INVESTMENTS, LLC 1721 MAPLELANE AVENUE

PROJECT TITLE

LOTS 10 & 11
HARTLAND
TOWNE SQUARE

REVISIONS	
PER TOWNSHIP REVIEW	8-23-2
ORIGINAL ISSUE DATE: JULY 13, 2021	
DRAWING TITLE	

**PRELIMINARY** 

**DIMENSION** 

**PLAN** 

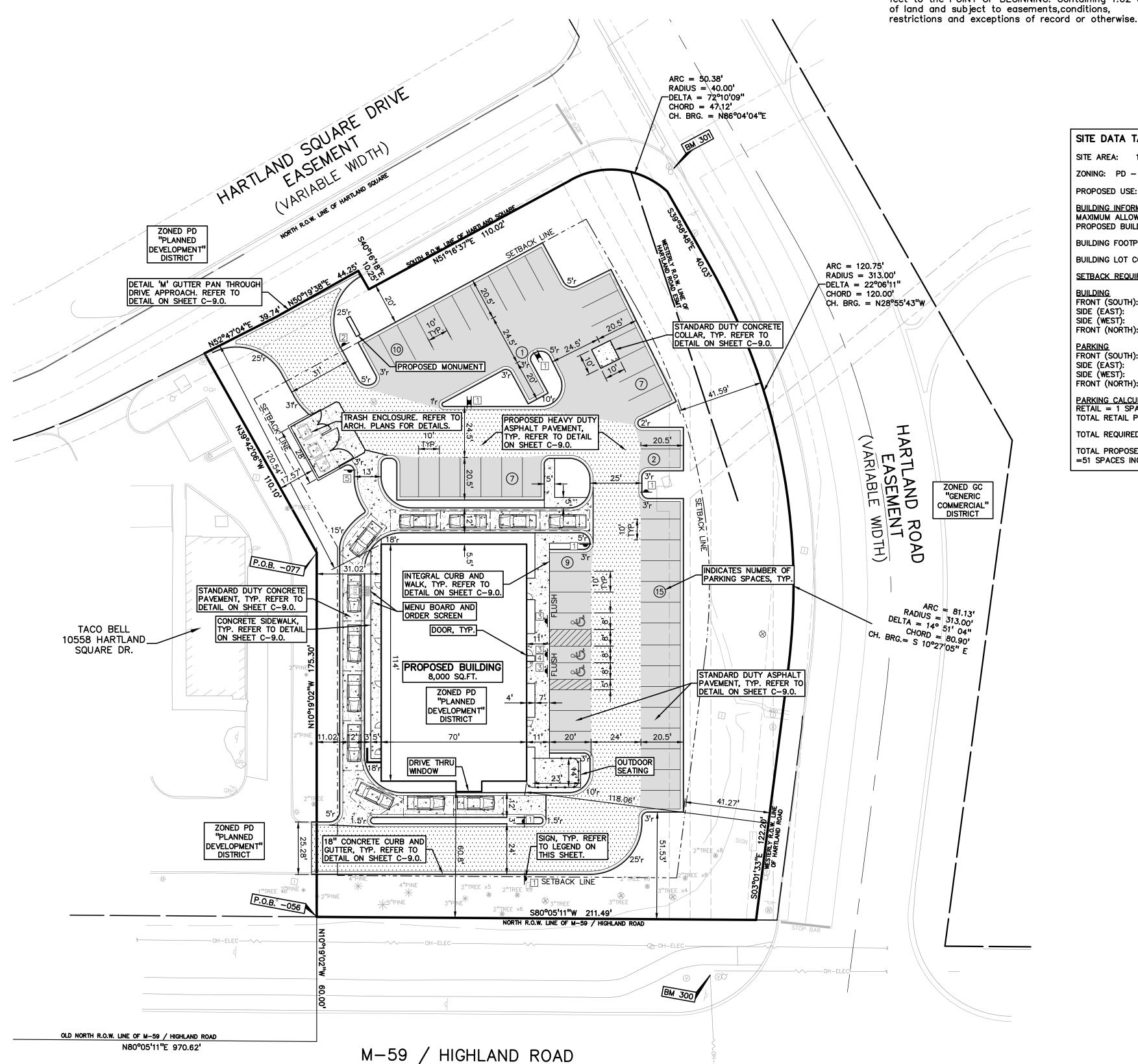
OB NO.	2018-39
	JF
	Jk

47

NOT FOR CONSTRUCTION

DRAWING NUMBER: C - 3.0

DES.



(WIDTH VARIES)

SITE DATA TABLE: SITE AREA: 1.74 ACRES (75,800 SQ.FT.) NET AND GROSS ZONING: PD - PLANNED DEVELOPMENT PROPOSED USE: MULTI-TENANT RETAIL (8,000 SF) BUILDING INFORMATION:
MAXIMUM ALLOWABLE BUILDING HEIGHT = 40 FEET (2 STORIES) PROPOSED BUILDING HEIGHT = 23 FT (1 STORY) BUILDING FOOTPRINT AREA = 8,000 SQ.FT. BUILDING LOT COVERAGE = 10.6% **SETBACK REQUIREMENTS: REQUIRED:** PROPOSED: BUILDING FRONT (SOUTH): SIDE (EAST): 40.5 118.06 SIDE (WEST): 31.02**'** FRONT (NORTH): 120.54 FRONT (SOUTH): 51.53**'** 40.5 SIDE (EAST): 41.27' SIDE (WEST): 11.02' FRONT (NORTH): PARKING CALCULATIONS: RETAIL = 1 SPACE PER 300 S.F. TOTAL RETAIL PARKING REQUIRED = 8,000/300 = 27 SPACES TOTAL REQUIRED PARKING = 27 SPACES TOTAL PROPOSED PARKING SPACES

BM #300 SET NAIL AND TAG ON NORTH SIDE OF A STRAIN POLE LOCATED APPROX. 60'± WEST OF THE CENTERLINE OF HARTLAND ROAD AND APPROX. 40'± NORTH OF CENTERLINE OF WESTBOUND M-59/HIGHLAND ROAD,

SET DIMPLE ON A HYDRANT ARROW LOCATED APPROX. 35'± WEST OF HARTLAND ROAD AND APPROX. 50'± SOUTH OF ROVEY DRIVE. ELEV. — 978.56

### FLOODPLAIN NOTE:

BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26093C0238D, DATED 9/17/2008.

## SIGN LEGEND: 'NO PARKING FIRE LANE' SIGN 'STOP' SIGN

'BARRIER FREE PARKING' SIGN PROPOSED CONTOUR LINE 'VAN ACCESSIBLE' SIGN

'DO NOT ENTER' SIGN REFER TO DETAIL SHEET FOR SIGN DETAILS

## SYMBOLS: GRADING

PROPOSED SPOT ELEVATION:
TYPICALLY TOP OF PAVEMENT IN PAVED × 922.50 AREAS. GUTTER GRADE IN CURB LINES.

<del>----</del>922----

ABBREVIATIONS: T/C = TOP OF CURBG' = GUTTER GRADE

T/P = TOP OF PAVEMENTT/S = TOP OF SIDEWALKT/W = TOP OF WALLB/W = BOTTOM OF WALLF.G. = FINISH GRADE RIM = RIM ELEVATION

#### LEGAL DESCRIPTION

#### PARCEL ID 4708-21-400-056

A parcel of land being a part of the South 1/2 of Section 21, T3N-R6E, Hartland Township, Livingston County, Michigan, being more particularly described as

Commencing at the South 1/4 of said Section 21; thence N 02°55'00" W, 214.93 feet along the North—South 1/4 line (as monumented); thence N 80°05'11" E, 970.62 feet along the North Right-of-Way of M-59 (Highland Road); thence N 10°19'02" W, 60.00 feet to a point on the future North Right-of-Way line of said M-59 (120'-1/2 width), and the POINT OF BEGINNING; thence continuing N 10°19'02" W, 197.43 feet; thence N 78°52'35" E, 226.83 feet; thence 81.13 feet along a curve to the right, said curve having a radius of 313.00 feet, a central angle of 14°51'04", and a chord which bears S 10°27'05" E, 80.90 feet; thence

S 03°01'33" E, 122.20 feet to a point on the future Northerly Right-of-Way line of said Highland Road; thence along said Northerly line, S 80°05'11" W, 211.49 feet to the POINT OF BEGINNING. Containing 1.02 acres of land and subject to easements, conditions, restrictions and exceptions of record or otherwise.

PARCEL ID 4708-21-400-077 (Outlot 11) A parcel of land being a part of the South 1/2 of Section 21, T3N-R6E, Hartland Township, Livingston County, Michigan, being more particularly described as follows:

Commencing at the South 1/4 of said Section 21; thence N 02°55'00" W, 275.38 feet along the North-South 1/4 line (as monumented) to the North 120 foot Right-of-Way of M-59 (Highland Road); thence N 80°05'11" E, 962.84 feet along said North Right-of-Way line to the west line of Parcel 4708-21-400-056, also being the east line of Parcel 4708-21-400-072; thence along said line N 10°19'02" W, 175.30 feet the POINT OF BEGINNING; thence continuing along said east line of Parcel 4708-21-400-072 N 39°42'06" W, 110.11 feet to the south line of the Hartland Square Drive Easement (width varies): thence along said south line the following five courses and distances: 1) N 52°47'04" E, 39.74 feet; 2) N 50°19'38" E, 44.25 feet; 3) S 40°16'18" E, 10.25 feet; 4) N 51°16'37" E, 110.02 feet to a point of curvature; 5) 50.38 feet along the arc of a curve to the right, said curve having a radius of 40.00 feet, a central angle of 72°10′09″, and a chord that bears N 86°04′04″ E, 47.12 feet to the westerly line of Hartland Road; thence along said westerly line S 39°58'48" E, 40.03 feet to a point of curvature; thence 120.75 feet along the arc of a curve to the right, said curve having a radius of 313.00 feet, a central angle of 22°06′11″, and a chord that bears S 28°55'43" E, 120.00 feet to the north line of said Parcel 4708-21-400-056; thence along said north line S 78°52'35" W, 226.83 feet to the northwest corner of said Parcel 4708-21-400-056; thence S 10°19'02" E, 22.13 feet to the **POINT OF BEGINNING.** Containing 0.71 acres

## LEGEND

-OH-ELEC-VV-O--- ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE

-UG-ELEC-ELEC ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE

POST INDICATOR VALVE

UNIDENTIFIED STRUCTURE

SPOT ELEVATION

CONTOUR LINE

☆ STREET LIGHT

CONCRETE

GRAVEL SHOULDER

-UG-CATV-TV- UNDERGROUND CABLE TV, CATV PEDESTAL

SANITARY SEWER, CLEANOUT & MANHOLE

— – STORM SEWER, CLEANOUT & MANHOLE

——— COMBINED SEWER & MANHOLE

-⊠-UG-PHONE-(T)--- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE

IRON FOUND

MAIL FOUND

Ø NAIL & CAP SET

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**\_X** FENCE

CONC. -

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SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN

WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE

C CALCULATED GROUP GAS MAIN, VALVE & GAS LINE MARKER

WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE

671.21

671

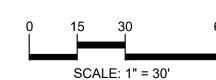
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t: 844.813.2949

www.peagroup.com





CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

AFFINITY 8
INVESTMENTS, LLC
1721 MAPLELANE AVENUE

PROJECT TITLE

**REVISIONS** 

PER TOWNSHIP REVIEW

LOTS 10 & 11 HARTLAND TOWNE SQUARE

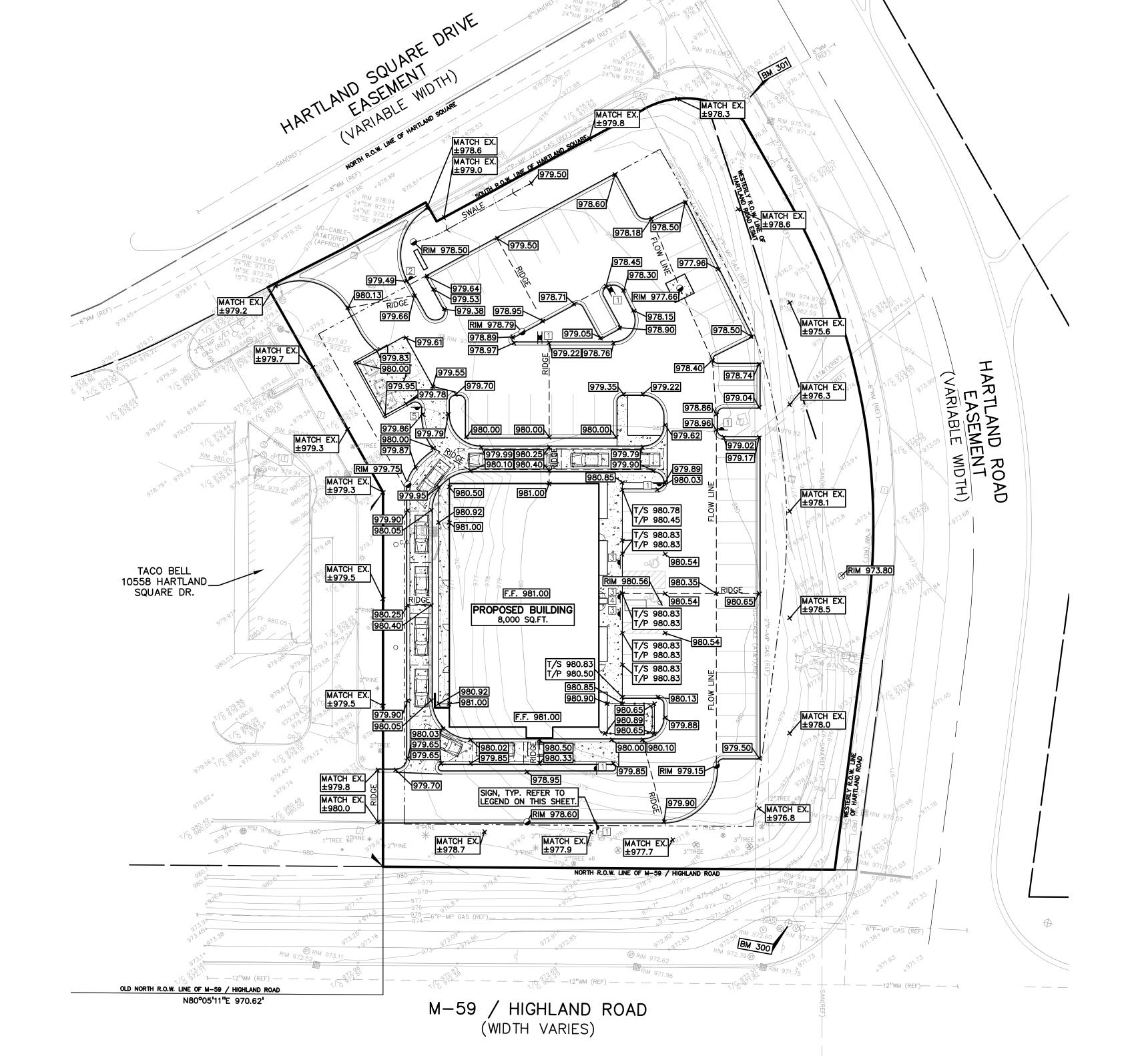
ORIGINAL ISSUE DATE JULY 13, 2021

**PRELIMINARY GRADING PLAN** 

2018-398

Р.М.
DN.
DES.
DRAWING NUMBER:

PEA JOB NO.



SET NAIL AND TAG ON NORTH SIDE OF A STRAIN POLE LOCATED APPROX. 60'± WEST OF THE CENTERLINE OF HARTLAND ROAD AND APPROX. 40'± NORTH OF CENTERLINE OF WESTBOUND M-59/HIGHLAND ROAD,

SET DIMPLE ON A HYDRANT ARROW LOCATED APPROX. 35'± WEST OF HARTLAND ROAD AND APPROX. 50'± SOUTH OF ROVEY DRIVE. ELEV. - 978.56

#### FLOODPLAIN NOTE:

BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26093C0238D, DATED 9/17/2008.

#### LEGAL DESCRIPTION

#### PARCEL ID 4708-21-400-056

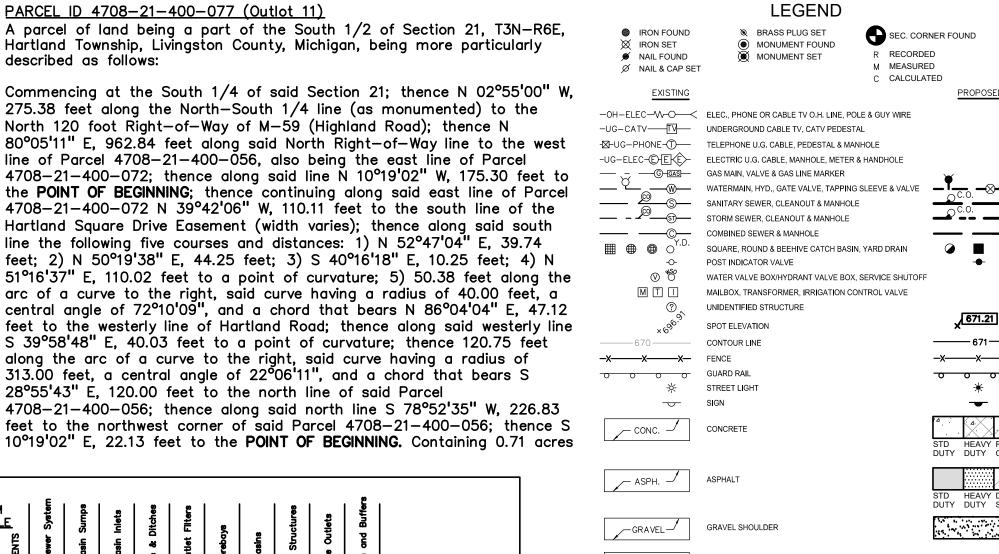
A parcel of land being a part of the South 1/2 of Section 21, T3N-R6E, Hartland Township, Livingston County, Michigan, being more particularly described as

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Northerly Right-of-Way line of said Highland Road; thence along said Northerly line, S 80°05'11" W, 211.49 feet to the POINT OF BEGINNING. Containing 1.02 acres of land and subject to easements, conditions, restrictions and exceptions of record or otherwise.

PARCEL ID 4708-21-400-077 (Outlot 11) A parcel of land being a part of the South 1/2 of Section 21, T3N-R6E, Hartland Township, Livingston County, Michigan, being more particularly described as follows:

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## Per plans or as required As required Weekly or after rain event As required Weekly or after rain event As required As required As required Two times, annually

## **EROSION CONTROL STANDARDS:**

ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OF THE JURISDICTIONAL AGENCY UNDER PART 91 OF ACT 451 OF 1994, AS AMENDED.

DAILY INSPECTIONS SHALL BE MADE BY CONTRACTOR WHILE WORKING TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES. ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY. ALL SOIL EROSION CONTROL PROVISIONS SHALL BE PROPERLY MAINTAINED DURING CONSTRUCTION.

EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF- SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND PONDS.

CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED AND AS DIRECTED ON THESE PLANS. CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGE AREAS HAVE BEEN COMPLETED.

STAGING THE WORK WILL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.

SOIL EROSION CONTROL PRACTICES WILL BE ESTABLISHED IN EARLY STAGES OF CONSTRUCTION BY THE CONTRACTOR. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF

DUST SHALL BE CONTROLLED BY WATERING OR BY OTHER APPROVED MEANS THROUGHOUT ALL CONSTRUCTION OPERATIONS.

PERMANENT SOIL EROSION CONTROL MEASURES FOR SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICAN' EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED WITHIN 5 CALENDAR DAYS. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.

THE CONTRACTOR SHALL PRESERVE NATURAL VEGETATION AS MUCH AS

10. ANY WORK OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL REQUIRE A SEPARATE GRADING PERMIT.

FOLLOWING THE PLACEMENT OF 4" OF TOPSOIL AND HYDROSEED, STRAW MULCH BLANKET IS TO BE INSTALLED PERPENDICULAR ALONG THE PROPOSED SLOPES 1:4 OR STEEPER FROM TOP OF SLOPE TO TOE OF SLOPE, INCLUDING DITCH BOTTOMS, AND IT MUST BE PEGGED IN PLACE.

12. ALL MUD/DIRT TRACKED ONTO EXISTING COUNTY/CITY ROADS FROM THIS SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. 13. TEMPORARY STABILIZATION OF THE ENTIRE SITE SHALL BE COMPLETED AND APPROVAL OBTAINED FROM THE LIVINGSTON COUNTY DRAIN COMMISSIONERS

OFFICE PRIOR TO THE ISSUANCE OF ANY SINGLE FAMILY DWELLING PERMITS.

PROJECT TITLE **LOTS 10 & 11 HARTLAND** 

ALLINILLO

HAZEL PARK, MICHIGAN 48030

1721 MAPLELANE AVENUE

INVESTMENTS, LLC

GROUP

t: 844.813.2949

www.peagroup.com

SCALE: 1" = 30'

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CAUTION!!

## SOIL EROSION SCHEDULE AND SEQUENCE OF CONSTRUCTION:

PLACE SILT FENCE AND SEDIMENT TRAPS AS INDICATED ON PLANS. NOTE THAT ALL SILT FENCE SHALL BE 36" HIGH, NO EXCEPTIONS (DATE)

2. INSTALL MUD MAT AT SITE ENTRANCE. (DATE)

REMOVE ALL TOPSOIL, ORGANIC MATTER, AND DELETERIOUS MATERIALS FROM AREAS TO BE GRADED. TOPSOIL MAY BE STORED ON SITE IN AREAS INDICATED AND USED FOR FUTURE PLANTING AND FILL AREAS IN GREENSPACE, BERMS, AND REAR YARDS. TRUCK TOPSOIL OFF SITE AT OWNER'S REQUEST. STOCKPILE AREAS SHALL BE SEEDED AND MULCHED OR MATTED WITH STRAW, AND PROVIDED WITH A PERIMETER OF SILT FENCE IMMEDIATELY FOLLOWING THE STRIPPING PROCESS. (DATE)

CONSTRUCT DETENTION PONDS AND SEDIMENTATION PONDS. PONDS SHALL BE TOPSOILED, SEEDED, MULCHED AND TACKED PRIOR TO ANY OTHER EARTH DISRUPTION

5. GRADE ROADS TO PAVEMENT SUBGRADE ELEVATION. (DATE)

ROUGH GRADE SITE TO WITHIN 0.5' OF FINAL GRADE PRIOR TO BEGINNING UTILITY CONSTRUCTION. (DATE)

. INSTALL UTILITIES. PLACE INLET FILTERS ON ALL CATCH BASINS AND INLETS. (DATE)

8. PLACE ROAD PAVING. (DATE) REDISTRIBUTE TOPSOIL. SITE SHALL BE GRADED ACCORDING TO GRADING PLAN. FINAL GRADES WILL BE SET AT THE TIME SITE PLANS ARE AVAILABLE FOR EACH HOUSE.

10. INSTALL FRANCHISE UTILITIES (ELECTRIC, GAS, TELEPHONE). (DATE)

1. ESTABLISH VEGETATION AND/OR LANDSCAPE ANY REMAINING DISTURBED AREAS.

12. CLEAN PAVEMENT AND STORM SEWERS. (DATE)

13. REMOVE ALL SEDIMENT FROM SEDIMENT BASIN AND DETENTION POND. (DATE)

14. REMOVE ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS. (DATE)

REVISIONS PER TOWNSHIP REVIEW

**TOWNE SQUARE** 

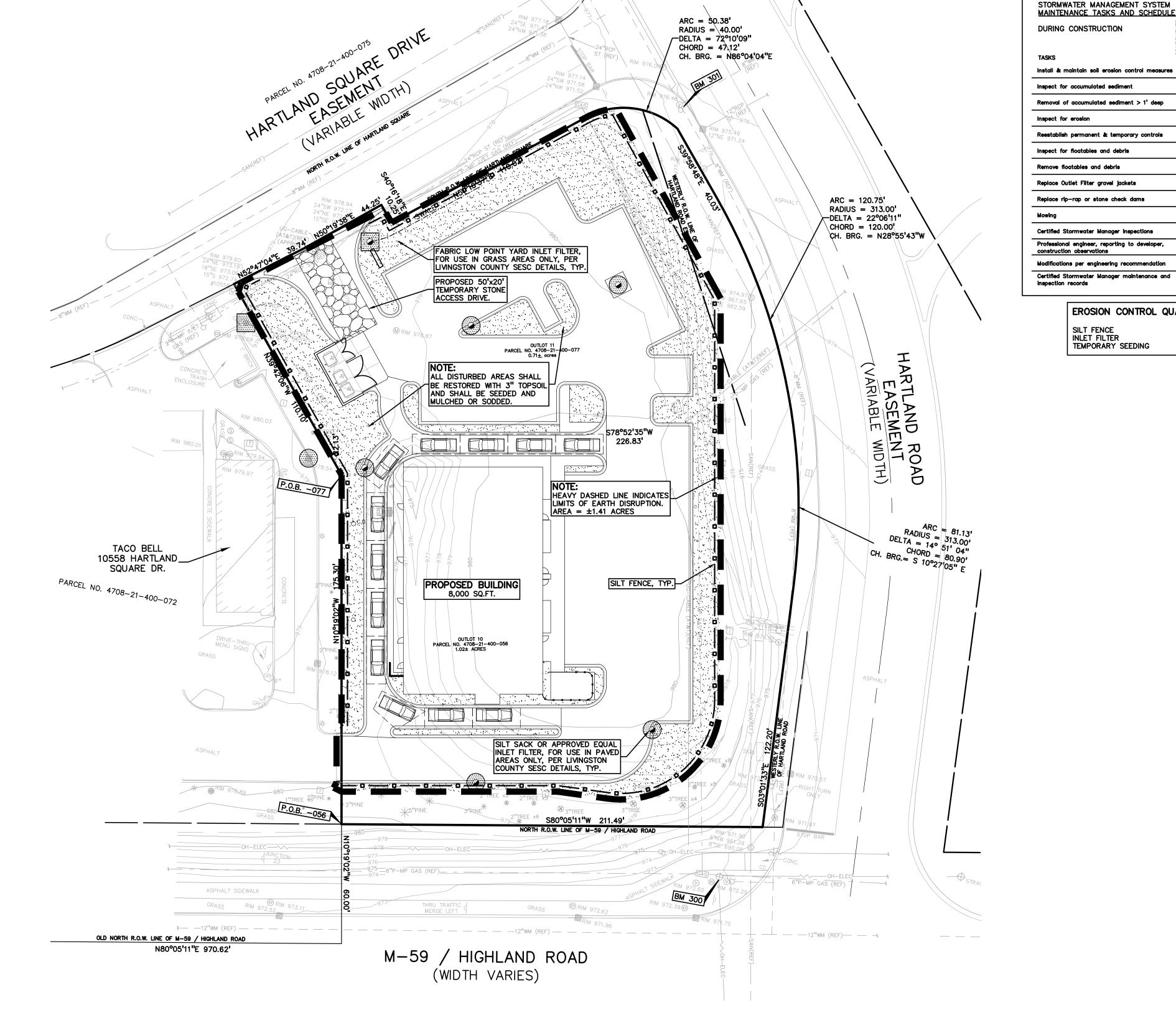
ORIGINAL ISSUE DATE: JULY 13, 2021

**PRELIMINARY SESC PLAN** 

	PEA JOB NO.	2018-398
_	P.M.	JPB
	DN.	JKS
	DES	IDS

DRAWING NUMBER:

NOT FOR CONSTRUCTION



APPROXIMATE TEMPORARY SEEDING LOCATIONS

TOTAL AREA OF EARTH DISTURBANCE = 1.41 ACRES

BM #300 SET NAIL AND TAG ON NORTH SIDE OF A STRAIN POLE LOCATED APPROX. 60'± WEST OF THE CENTERLINE OF HARTLAND ROAD AND APPROX. 40'± NORTH OF CENTERLINE OF WESTBOUND M-59/HIGHLAND ROAD,

SET DIMPLE ON A HYDRANT ARROW LOCATED APPROX. 35'± WEST OF HARTLAND ROAD AND APPROX. 50'± SOUTH OF ROVEY DRIVE. ELEV. — 978.56

FLOODPLAIN NOTE:

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REFER TO UTILITY NOTES ON SHEET C-9.0.

## LEGAL DESCRIPTION

#### PARCEL ID 4708-21-400-056

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#### LEGEND BRASS PLUG SET ■ SEC. CORNER FOUND MONUMENT FOUND R RECORDED MONUMENT SET M MEASURED C CALCULATED PROPOSED -OH-ELEC-VV-O--- ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE

IRON FOUND

MAIL FOUND

Ø NAIL & CAP SET

MII

**\_X** FENCE

CONC. -

∕— ASPH. →

,—GRAVEL —

nar nar MELTAND

-UG-CATV-TV- UNDERGROUND CABLE TV, CATV PEDESTAL

SANITARY SEWER, CLEANOUT & MANHOLE

— – STORM SEWER, CLEANOUT & MANHOLE

——— COMBINED SEWER & MANHOLE

-⊠-UG-PHONE-(T)--- TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE

-UG-ELEC-ELEC ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE

POST INDICATOR VALVE

UNIDENTIFIED STRUCTURE

SPOT ELEVATION

CONTOUR LINE

☆ STREET LIGHT

CONCRETE

GRAVEL SHOULDER

GAS MAIN, VALVE & GAS LINE MARKER

WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE

SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN

MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE

WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF

GROUP

671.21

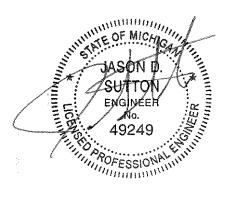
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CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT

**AFFINITY 8** INVESTMENTS, LLC
1721 MAPLELANE AVENUE HAZEL PARK, MICHIGAN 48030

PROJECT TITLE

LOTS 10 & 11 HARTLAND TOWNE SQUARE

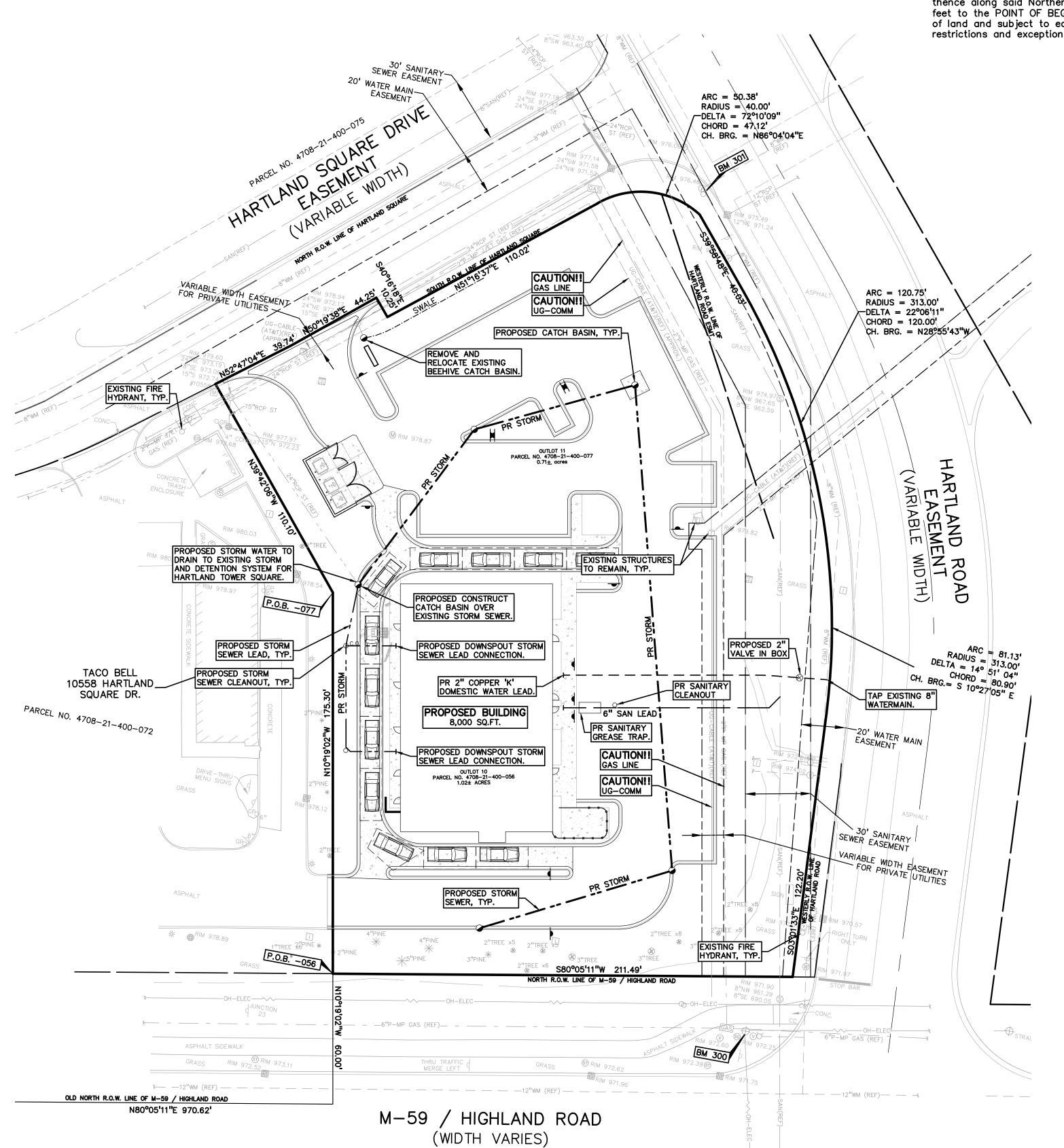
REVISIONS PER TOWNSHIP REVIEW

ORIGINAL ISSUE DATE: JULY 13, 2021

DRAWING TITLE **PRELIMINARY UTILITY PLAN** 

PEA JOB NO.	2018-39
P.M.	JP
DN.	JK
DES.	JD
DRAWING NUMBER:	

NOT FOR CONSTRUCTION



#### **GENERAL NOTES:**

THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

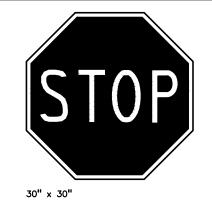
- ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, MDOT AND MUNICIPALITY STANDARDS AND REGULATIONS.
- . THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- . THE CONTRACTOR MUST CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
- 4. ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL TOWNSHIP INSPECTION FEES.
- 5. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- CONTRACTOR TO VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL, HAVING TO BE ADJUSTED OR RE-DONE. SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION IN WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
- ANY WORK WITHIN THE STREET OR HIGHWAY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE
- B. ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE
- ). THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, TOWNSHIP AND STATE SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION
- 10. THE USE OF CRUSHED CONCRETE IS PROHIBITED ON THE PROJECT WITHIN 100 FEET OF ANY WATER COURSE (STREAM, RIVER, COUNTY DRAIN, ETC.) AND LAKE, REGARDLESS OF THE APPLICATION OR LOCATION OF THE WATER COURSE OR LAKE RELATIVE TO THE PROJECT LIMITS.
- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE

#### **PAVING NOTES:**

- IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
- PROVIDE EXPANSION JOINTS AND JOINT SEALANT AT TWO "END-OF-RADIUS" LOCATIONS (OPPOSITE SIDES AT EACH LONG END) OF CONCRETE CURB ISLANDS.
- REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS.
- CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT. IF CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE, THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF THE FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR. AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM.
- CONCRETE PAVEMENT JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION: 5.1. WHERE PROPOSED CONCRETE ABUTS A STRUCTURE PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH
- SEALANT, THE JOINT FILLER BOARD MUST BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 1/2 INCH TO ALLOW FOR SEALING 5.2. WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN BETWEEN POURS OF PROPOSED CONCRETE (CONSTRUCTION JOINT) PROVIDE 5/8"DOWELS EVERY 30"CENTER TO CENTER HALF WAY ALONG THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST
- BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. 5.3. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM  $\frac{1}{2}$ " EXPANSION JOINT WITH SEALANT
- 5.4. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED CURBING PROVIDE A MINIMUM 1/2" **EXPANSION JOINT WITH SEALANT** 5.5. CONTROL, LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS;
- 5.5.1. 6-INCH THICK CONCRETE PAVEMENT: 12' X 12' 5.5.2. 8-INCH THICK CONCRETE PAVEMENT: 15' X 15' 5.6. IRREGULAR-SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS
- DETERMINED BY THE ENGINEER. THE USE OF MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. 5.7. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE
- ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
- CONCRETE CURBING JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION; 6.1. WHERE PROPOSED CONCRETE CURBING ABUTS A STRUCTURE PROVIDE A MINIMUM 1/2" EXPANSION JOINT
- 6.2. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH SEALANT
- 6.3. WHERE PROPOSED CONCRETE ABUTS EXISTING CURBING PROVIDE A MINIMUM 1/2" EXPANSION JOINT WITH
- 6.4. IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION JOINT) 6.4.1. CARRY THE REBAR CONTINUOUSLY BETWEEN POURS

6.4.2. IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY THEN TIE TWO PIECES OF REBAR

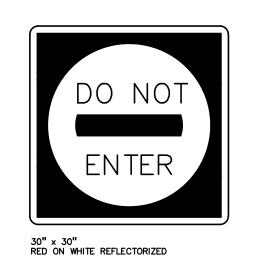
PER THE LATEST MDOT SPECIFICATIONS 6.5. CONTROL JOINTS SHALL BE PLACED A MAXIMUM 10' CENTER TO CENTER AND AT ALL RADIUS



30" x 30" WHITE ON RED REFLECTORIZED STOP SIGN DETAIL



NO PARKING SIGN DETAIL



DO NOT ENTER SIGN DETAIL

- FINISHED GRADE

3.5' MIN.

7'-0" MOUNTING HEIGHT



BARRIER FREE SIGN NOTES:

MINIMUM OF 12".

A MINIMUM OF 3 FEET LONG.

AND LOCAL REQUIREMENTS.

STRICTER REQUIREMENT SHOULD BE USED.

ONE SIGN IS REQUIRED AT EACH BARRIER FREE PARKING SPACE.

OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).

ALL SIGNS SHALL COMPLY WITH THE LATEST STANDARDS OF THE MICHIGAN MANUAL

OTHER, TWO SIGNS ARE REQUIRED, BUT CAN BE MOUNTED ON THE SAME POST.

5. ANCHOR POSTS SHALL BE 2.25" NOM. SQUARE 12-GAUGE GALVANIZED STEEL POST,

6. IF THESE NOTES AND DETAILS CONFLICT WITH LOCAL CODES AND ORDINANCES, THE

12"x18" x 0.080" ALUMINUM BARRIER REE PARKING SIGN (R7-8). BOLT SIGN

TO STEEL TUBE WITH %" CADMIUM PLATED BOLTS, NUTS, AND WASHERS.

6"x12" x 0.080" ALUMINUM VAN

- ACCESSIBLE SIGN (R7-8P) WHERE APPLICABLE.

PER JURISDICTIONAL REQUIREMENTS WHERE APPLICABLE

BOLLARD A MINIMUM OF 2'-0". PROVIDE WELDED WATERTIGHT CAP

2"x2"x.188" GALVANIZED STEEL TUBE EXTEND INTO CONCRETE FILLED PIPE

IN PAVED AREA OR SIDEWALK), PROVIDE

18" DIA. CONCRETE FOOTING USING

M.D.O.T. 'P1' CONCRETE, 3500 PSI, 6AA OR APPROVED EQUAL

INSTALL BREAKAWAY TUBE POST

- IN SIGN LOCATIONS WHERE PIPE
BOLLARD IS NOT REQUIRED.

- PAVEMENT SURFACE

6" DIA, SCHEDULE 40 GALVANIZED STEEL PIPE

IN PAVED AREA OR SIDEWALK). PROVIDE

ROUNDED WASH AT TOP OF CONCRETE FILL

WITH 1% FINISHED SLOPE. PAINT BOLLARD WITH
2 COATS OF SAFETY YELLOW PAINT, OR
PROVIDE YELLOW BOLLARD SLEEVE..

**RESERVED** 

**PARKING** 

ONLY

FILLED WITH CONCRETE (WHEN SIGN IS LOCATED

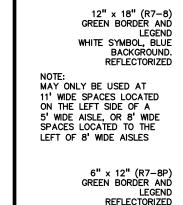
SECONDARY/PENALTY SIGNAGE

7. ALTERNATE MATERIALS MAY BE USED IF IN COMPLIANCE WITH A.D.A. GUIDELINES

4. SIGN POSTS SHALL BE 2" NOM. SQUARE 14-GAUGE GALVANIZED STEEL TUBE WITH 7/16" HOLES AT 1" CENTERS. POSTS SHALL TELESCOPE INSIDE ANCHOR POSTS A

3. WHEN TWO BARRIER FREE PARKING SPACES ARE ADJACENT AND FACING EACH

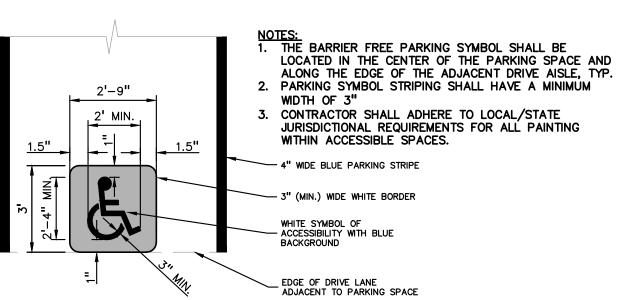
GREEN BORDER AND LEGEND WHITE SYMBOL, BLUE BACKGROUND. REFLECTORIZED **BARRIER FREE** PARKING SIGN DETAIL



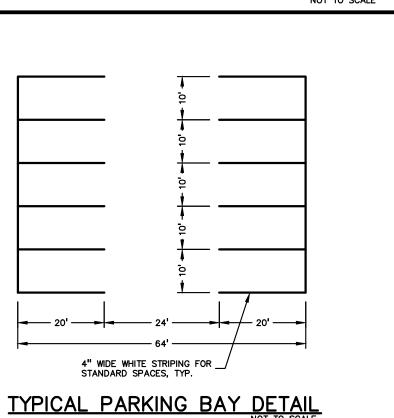
BARRIER FREE SIGN AND POST DETAIL

LEGEND REFLECTORIZED

ACCESSIBL VAN ACCESSIBLE PARKING SIGN DETAIL



BARRIER FREE PARKING SYMBOL DETAIL INTERNATIONAL SYMBOL OF ACCESSIBILITY



1.5" MDOT 5E1 ASPHALT WEARING COURSE ----(17% MAX. R.A.P. CONTENT) (SS-1H at 0.05 GALS/S.Y.) 2.5" MDOT 4E1 ASPHALT LEVELING COURSE — (27% MAX. R.A.P. CONTENT)

> HOT-MIX ASPHALT MIXTURES UTILIZING RECYCLED ASPHALT PAVEMENT (RAP) MUS ACCEPTABLE ON THIS PROJECT. AN ASPHALT MIX DESIGN FOR ALL SPECIFIED MIXES SHOULD BE FORWARDED TO PEA GROUP FOR REVIEW PRIOR TO CONSTRUCTION

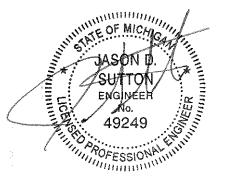
- STANDARD SECTION ALT. REVERSE CURB SECTION www.peagroup.com 1 6AA CONCRETI

PROOF-ROLLED/COMPACTED

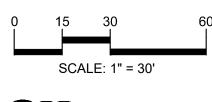
SUBGRADE OR ENGINEERED FILL COMPACTED TO 95% OF MAX. DRY UNIT WEIGHT PER

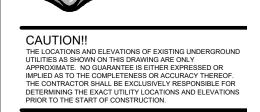
ASPHALT PAVING

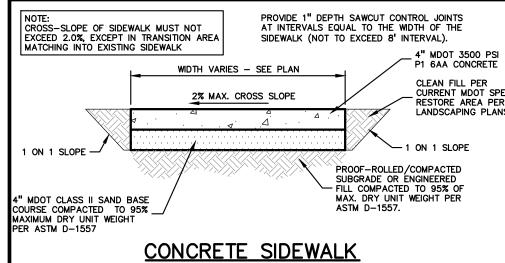
FPOXY COATE











STANDARD DUTY CONCRETE DETAIL

MDOT 3500 PSI P1

NOT TO SCALE

SUBGRADE OR ENGINEERED

FILL COMPACTED TO 95% OF
MAX. DRY UNIT WEIGHT PER
ASTM D-1557.

CONTRACTION JOINTS TO BE T/4 DEEP. SPACED AT INTERVALS TO MATCH SIDEWALK WDTH (SAWCUT). 1/2-INCH PRE-MOLDED FILLER EXPANSION JOINTS WITH JOINT SEALANT SHALL BE PLACED ONLY WHERE SIDEWALK ABUTS A STRUCTURE.

INTEGRAL CURB AND SIDEWALK

OTE: ALTERNATE REVERSE CURB SECTION TO BE USED ONLY WHEN DRAINING AWAY FROM CURB. SEE PLAN FOR LOCATION.

4" MIN. MDOT 21AA

CRUSHED LIMESTONE COMPACTED TO 95% OF

EXTEND AGGREGATE

12" BEYOND BACK OF CURB

4" MDOT CLASS II SAND BASE COURSE COMPACTED \_\_ TO 95% MAX. DRY UNIT WEIGHT PER ASTM D-1557

SLOPE AS NECESSARY TO STABILIZE SUBGRADE

PROOF-ROLLED/COMPACTED SUBGRADE OR ENGINEERED FILL COMPACTED TO 95% OF

SLOPE 1" PER FT.

PROVIDE CONTROL JOINTS IN CURB AT 10' O.C. AND AT ALL RADIUS RETURNS.
PROVIDE EXPANSION JOINTS AND JOINT SEALANT WHERE CURBS ABUT STRUCTURES.

AS INDICATED ON PLANS

\_ MDOT 3500 PSI, P<sup>r</sup> 6AA CONCRETE

2% MAX SLOPE

<u> 18"x6" STANDARD CONCRETE CURB AND GUTTER</u>

**AFFINITY 8 INVESTMENTS, LLC** 1721 MAPLELANE AVENUE HAZEL PARK, MICHIGAN 48030

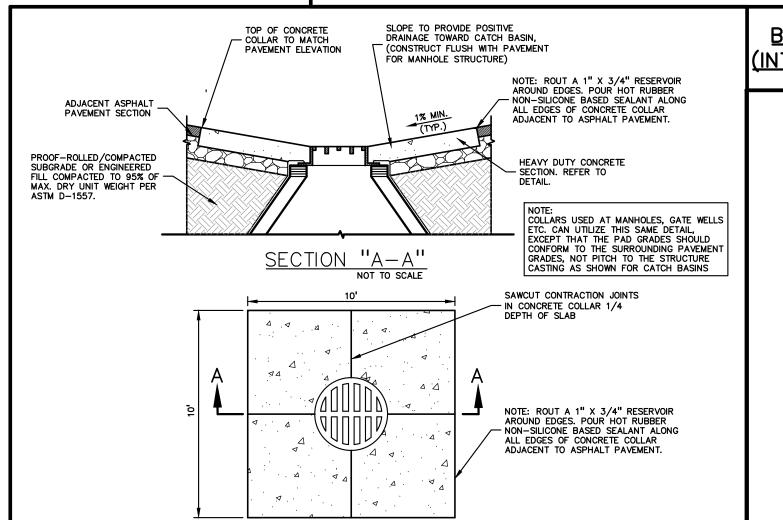
PROJECT TITLE LOTS 10 & 11 **HARTLAND TOWNE SQUARE** 

REVISIONS
PER TOWNSHIP REVIEW 8-23-21
ORIGINAL ISSUE DATE: JULY 13, 2021
DRAWING TITLE

2018-398 PEA JOB NO. P.M. JPB DN. JKS DES. JDS DRAWING NUMBER:

**NOTES AND** 

**DETAILS** 



CONCRETE COLLAR DETAIL

ALUMINUM .08" THICK MIN

5/16" BOLTS IN

SIGN POST GALVANIZED STEEL CHANNEL POST

3/8" DRILLED HOLES

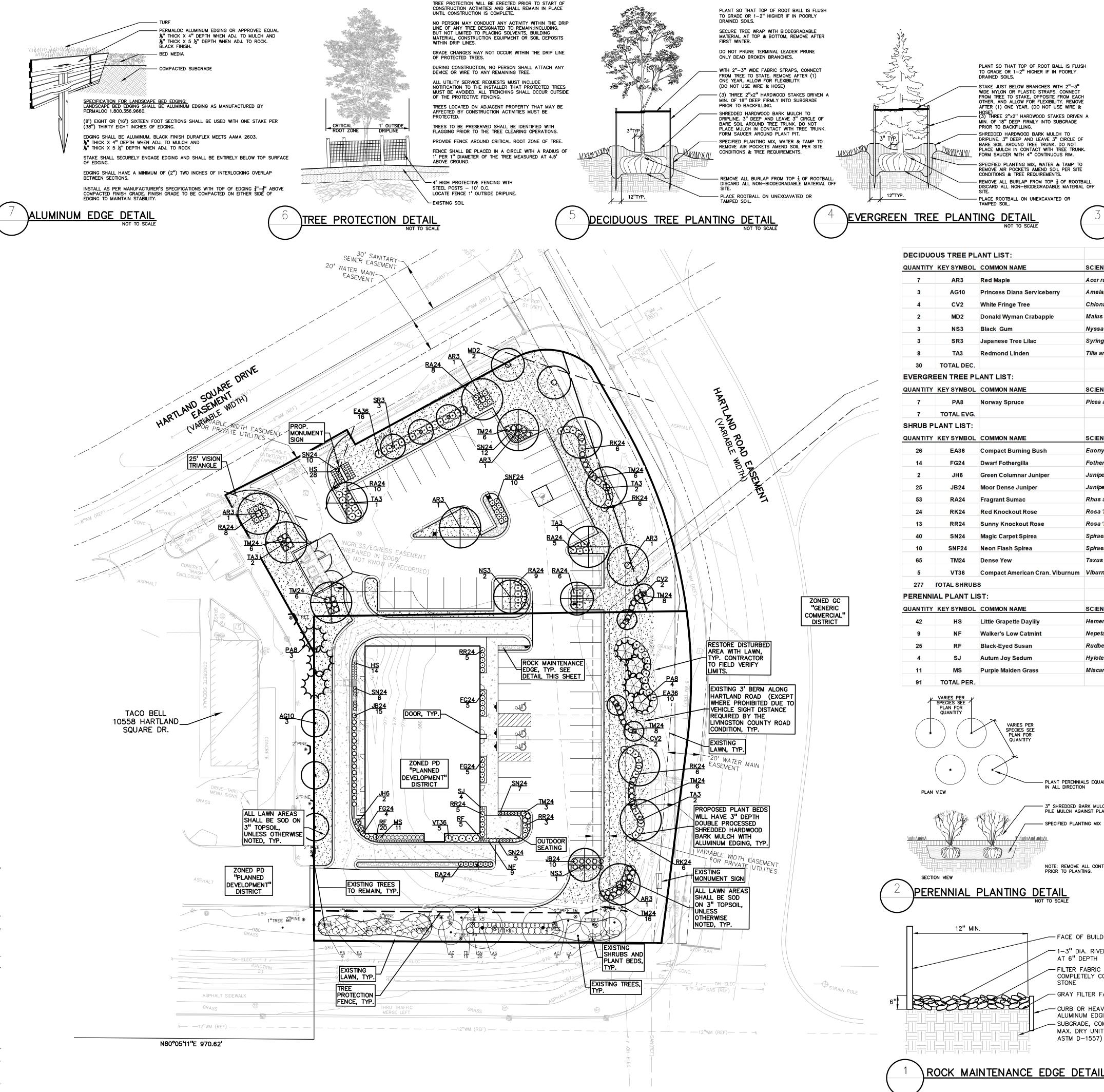
PROVIDE 2"x2"x.188 STEEL TUBE IF MOUNTING MORE — THAN ONE SIGN PER POST

- TOP OF CURB

SIGN AND POST INSTALLATION

IN LANDSCAPED AREAS

6" MDOT #21AA CRUSHED LIMESTONE BASE COURSE COMPACTED TO 95% MAX. DRY UNIT WEIGHT PER ASTM D-1557



PLANT SO THAT TOP OF ROOT BALL IS FLUSH TO GRADE OR 1-2" HIGHER IF IN POORLY DRAINED SOILS. - STAKE JUST BELOW BRANCHES WITH 2"-3" WIDE NYLON OR PLASTIC STRAPS. CONNECT FROM TREE TO STAKE, OPPOSITE FROM EACH OTHER, AND ALLOW FOR FLEXIBILITY, REMOVE AFTER (1) ONE YEAR. (DO NOT USE WIRE & HOSE) (3) THREE 2"x2" HARDWOOD STAKES DRIVEN A MIN. OF 18" DEEP FIRMLY INTO SUBGRADE PRIOR TO BACKFILLING. - SHREDDED HARDWOOD BARK MULCH TO DRIPLINE. 3" DEEP AND LEAVE 3" CIRCLE OF BARE SOIL AROUND TREE TRUNK. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK. FORM SAUCER WITH 4" CONTINUOUS RIM. SPECIFIED PLANTING MIX, WATER & TAMP T REMOVE AIR POCKETS AMEND SOIL PER SITE CONDITIONS & TREE REQUIREMENTS. - REMOVE ALL BURLAP FROM TOP \$ OF ROOTBALL.
DISCARD ALL NON-BIODEGRADABLE MATERIAL OFF PLACE ROOTBALL ON UNEXCAVATED OR

SHRUB PLANTING DETAIL

Princess Diana Serviceberry

Donald Wyman Crabapple

White Fringe Tree

Redmond Linder

Compact Burning Bush

Green Columnar Juniper

Moor Dense Juniper

Red Knockout Rose

Sunny Knockout Rose

Magic Carpet Spirea

Walker's Low Catmint

Black-Eyed Susan

**Autum Joy Sedum** 

Purple Maiden Grass

SPECIES SEE PLAN FOR

Dwarf Fothergilla

Fragrant Sumac

SCIENTIFIC NAME

Acer rubrum 'Red Pointe'

Chionanthus virginicus

Malus 'Donald Wyman'

Syringa reticulata 'Ivory Silk

Tilia americana 'Redmond'

Nyssa sylvatica

SCIENTIFIC NAME

SCIENTIFIC NAME

Fothergilla gardenii

Rosa 'Radrazz'

Compact American Cran. Viburnum Viburnum trilobum 'Bailey Compact'

PLANT PERENNIALS EQUAL DISTANCE

- 3" SHREDDED BARK MULCH. DO NO PILE MULCH AGAINST PLANT STEMS

NOTE: REMOVE ALL CONTAINERS PRIOR TO PLANTING.

- FACE OF BUILDING

AT 6" DEPTH

─ 1-3" DIA. RIVER ROCK,

- FILTER FABRIC TO BE

- GRAY FILTER FABRIC

- CURB OR HEAVY DUTY

ASTM D-1557)

ALUMINUM EDGING — BLACK

- SUBGRADE, COMPACT TO 95%

MAX. DRY UNIT DENSITY (PER

COMPLETELY CONCEALED WITH

IN ALL DIRECTION

- SPECIFIED PLANTING MIX

Euonymus alatus 'Compactus

Juniperus sabina 'Moor Dense'

Rhus aromatica 'Gro-Low

Rosa 'Radsunny' PP 18,562

Spiraea japonica 'Neon Flash'

Taxus x media 'Densiformis

Hemerocallis 'Little Grapette

Nepeta x faassenii 'Walkers Low'

Rudbeckia fulgida var. sulivantii 'Goldsturm

Hylotelephium spectabile 'Autumn Joy'

Miscanthus sinensis 'Purpurascens

SCIENTIFIC NAME

Spiraea japonica 'Walbuma' (1-2' ht)

Juniperus chinensis 'Hetzii Columnaris'

Picea abies

Amelanchier × grandiflora 'Princess Diana'

PLANT SO THAT TOP OF ROOT BALL IS FLUSH TO GRADE OR 1-2" HIGHER IF IN POORLY DRAINED SOILS. DO NOT COVER TOP OF ROOTBALL WITH SOIL. - FORM SAUCER WITH 4" CONTINUOUS RIM. - SHREDDED HARDWOOD BARK MULCH 3" DEEP AND LEAVE 3" CIRCLE OF BARE SOIL AROUND TRUNK. DO NOT PLACE MULCH IN CONTACT WITH TRUNK. SPECIFIED PLANTING MIX. WATER AND TAMP TO REMOVE AIR POCKETS. - REMOVE ALL BURLAP FROM TOP 🖁 OF ROOTBAI DISCARD ALL NON-BIODEGRADABLE MATERIAL OFF SITE. 6"TYP. PLACE ROOTBALL ON UNEXCAVATED OR TAMPED SOIL.

SIZE SPEC

3" Cal. B&B

10' Ht. B&B

2" Cal. B&B

2" Cal. B&B

3" Cal. B&B

3" Cal. B&B

3" Cal. B&B

SIZE SPEC

8' Ht. B&B

SIZE SPEC

36" Ht. Cont.

24" Ht. Cont.

6' Ht. Cont.

24" Ht. Cont.

1 Gal. Cont.

= PARKING LOT TREES = ADJACENT TO ROAD TREES = TREE PROTECTION FENCING = ORN GRASS + PERENNIALS = DECIDUOUS SHRUBS = EVERGREEN SHRUBS = RIVER ROCK MAINTENANCE EDGE SEE DETAIL THIS SHEET = IRRIGATED SOD LAWN

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SCALE: 1" = 30'

HARTLAND ROAD = 10 CANOPY/EVERGREEN TREES, 4 SUBCANOPY TREES, THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

HARTLAND SQUARE DRIVE = 5 CANOPY/EVERGREEN TREES, 2 SUBCANOPY TREES, AND 32 SHRUBS + 10 @ MONUMENT SIGN

REQUIRED / PROVIDED: HIGHLAND ROAD (M-59) FRONTAGE = EXISTING BERM AND LANDSCAPING

LANDSCAPE CALCULATION:
PER HARTLAND TOWNSHIP ZONING ORDINANCE - ZONED PD PLANNED

DEVELOPMENT. CALCS BASED ON 2008 APPROVED PLAN

386.7 LF/40 LF = 9.7 CANOPY/EVERGREEN TREES

386.7 LF/100 LF = 3.8 SUB-CANOPY TREES

186.8 LF/40 = 4.7 CANOPY/EVERGREEN TREES 186.8 LF/100 = 1.9 SUB-CANOPY TREES

1 DECIDUOUS/EVERGREEN TREE PER 40 LF

ORNAMENTÁL TREES PER 100 LF

 $386.7 \text{ LF}/40 \text{ LF } \times 8 = 77.2 \text{ SHRUBS}$ 

186.8 LF/40 \* 8 = 37.4 SHRUBS

ISLAND PLANTED W/ SHRUBS

ADJACENT TO ROADS REQUIRED:

8 SHRUBS PER 40 LF

HARTLAND SQUARE DRIVE

HARTLAND ROAD

AND 78 SHRUBS

REQUIRED: AREA ADJACENT TO A PUBLIC ROW (HARTLAND ROAD) SHALL

PROVIDED: EXISTING BERM (3' HT MIN.) ALONG HARTLAND ROAD EXCEPT WHERE PROHIBITED DUE TO VEHICLE SIGHT DISTANCE AS REQUIRED BY THE LIVINGSTON COUNTY ROAD COMMISSION. EXISTING BERM TO BE REVIEWED BY PLANNING COMMISSION TO DETERMINE IF CONSISTENT WITH THE INTENT OF THE PATTERN BOOK.

BE REQUIRED TO HAVE A BERM. BERM SHALL BE MINIMUM OF THREE FEET

PARKING LOT INTERIOR LANDSCAPING
REQUIRED: 30 SF OF INT. LANDSCAPE AREA PER PARKING SPACE 1 TREE PER 180 SF/AREA + 50% OF ISLANDS MUST BE SHRUBS; 51 PARKING SPACES X 10 SF = 1,530 / 180 SF = 8.5 TREES PROVIDED: 9 TREES AND 2,648 SF OF LANDSCAPE AREA + 50% OF EACH

PARKING LOT BUFFER REQUIRED: MIN 3' WIDE EVERGREEN HEDGE PLANTED ALONG ROW

A MIXTURE OF DECIDUOUS/EVERGREEN TREES. ORNAMENTAL TREES. SHRUBS AND PERENNIAL GRASSES ALONG HARTLAND ROAD AND HIGHLAND

FOUNDATION PLANTING REQUIRED: PLANTING AREAS ADJ. TO BUILDING PROVIDED: 3 UPRIGHT EVG. SHRUBS, 5 LARGE SHRUBS, 11 TALL ORNAMENTAL GRASSES, 24 SMALL SHRUBS, 29 PERENNIALS + DRIVE-THROUGH & SEATING AREA LANDSCAPING

MONUMENT SIGN PLANTING REQUIRED/PROVIDED: 5' PLANTING BED AT LONG SIDES OF SIGN

ALL LANDSCAPED AREAS MUST BE IRRIGATED WITH AN UNDERGROUND IRRIGATION SYSTEM

**AFFINITY 8** INVESTMENTS, LLC 1721 MAPLELANE AVENUE HAZEL PARK, MICHIGAN 48030

PROJECT TITLE

**LOTS 10 & 11** HARTLAND **TOWNE SQUARE** 

## **GENERAL PLANTING NOTES:**

- LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING SITE CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS.
- 2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION MAY BE LOCATED BY CALLING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO COMMENCING.
- 3. ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK AND SHALL SATISFY AMERICAN ASSOCIATION OF NURSERYMEN STANDARD FOR NURSERY STOCK. ALL LANDSCAPE MATERIAL SHALL BE NORTHERN GROWN, NO. 1. GRADE.
- 4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.
- 5. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
- S. ALL SINGLE STEM SHADE TREES TO HAVE
- STRAIGHT TRUNKS AND SYMMETRICAL CROWNS.
- 7. ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED.
- 8. ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE ACCEPTED.

- 9. ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR
- 10. ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.
- NO MACHINERY IS TO BE USED WITHIN THE DRIP LINE OF EXISTING TREES; HAND GRADE ALL LAWN AREAS WITHIN THE DRIP LINE OF EXISTING TREES. 12. ALL TREE LOCATIONS SHALL BE STAKED BY

THE LAST FIVE GROWING SEASONS.

- LANDSCAPE CONTRACTOR AND ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE PLANT MATERIAL. 13. IT IS MANDATORY THAT POSITIVE DRAINAGE IS
- PROVIDED AWAY FROM ALL BUILDINGS.
- 14. ALL PLANTING BEDS SHALL RECEIVE 3" SHREDDED HARDWOOD BARK MULCH WITH PRE EMERGENT, SEE SPECIFICATIONS. SHREDDED PALETTE AND DYED MULCH WILL NOT BE ACCEPTED.
- 15. ALL LANDSCAPED AREAS SHALL RECEIVE 3" COMPACTED TOPSOIL.
- 16. SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS, REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY STANDARDS.
- 17. FOR NON-LAWN SEED MIX AREAS, AS NOTED ON PLAN, BRUSH MOW ONCE SEASONALLY FOR INVASIVE SPECIES CONTROL.
- 18. CONTRACTOR SHALL NOT INSTALL PLANTS UNDER BUILDING OVERHANG AND SHALL NOTIFY LANDSCAPE ARCHITECT IF DRAWINGS CONFLICT WITH BUILDING OVERHANGS.

REVISIONS PER TOWNSHIP REVIEW

ORIGINAL ISSUE DATE: JULY 13, 2021

DRAWING TITLE **PRELIMINARY** LANDSCAPE

**PLAN** 2018-398 PEA JOB NO.

P.M. JPB CLR DN. JLE DRAWING NUMBER:

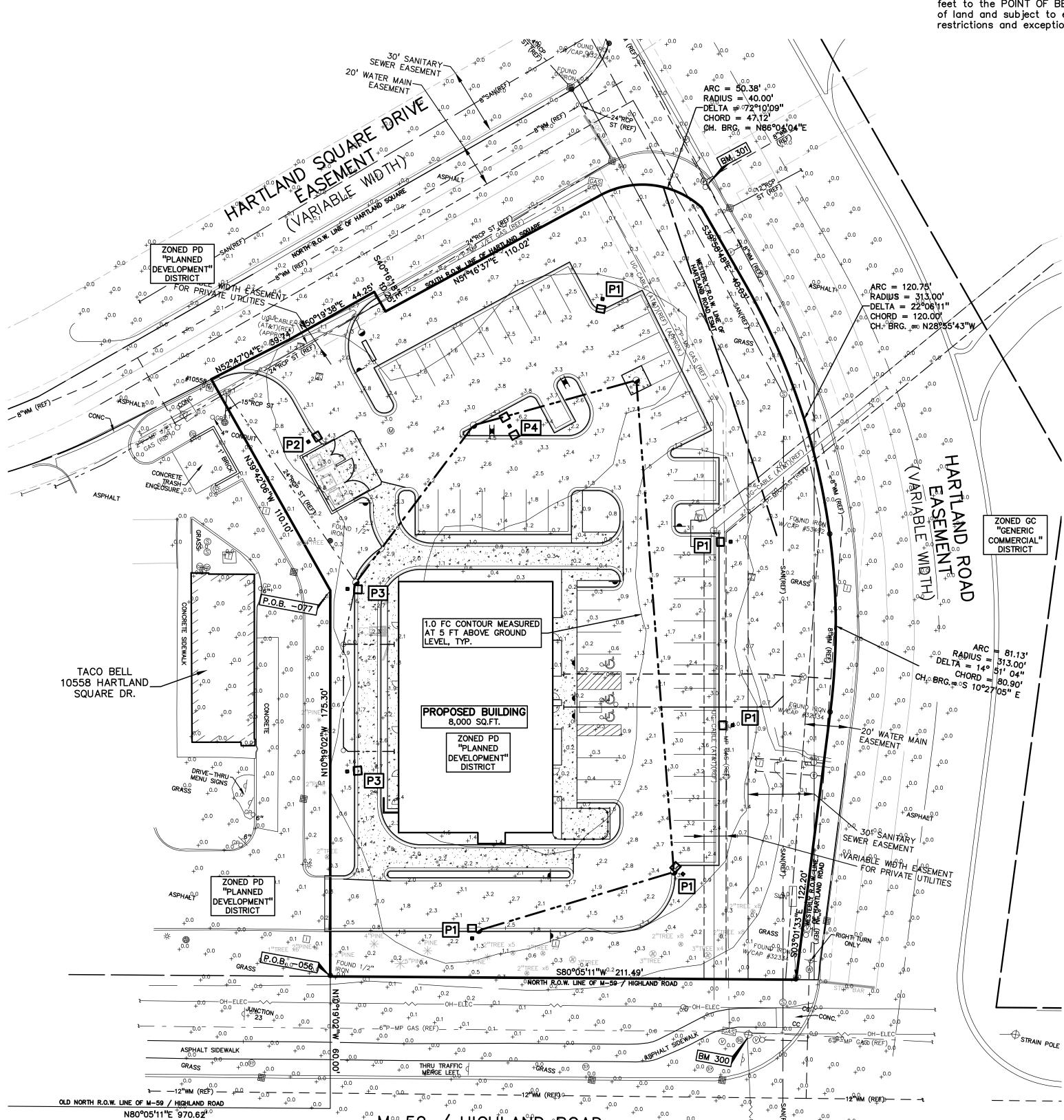
NOT FOR CONSTRUCTION

BM #300 SET NAIL AND TAG ON NORTH SIDE OF A STRAIN POLE LOCATED APPROX. 60'± WEST OF THE CENTERLINE OF HARTLAND ROAD AND APPROX. 40'± NORTH OF CENTERLINE OF WESTBOUND M-59/HIGHLAND ROAD,

SET DIMPLE ON A HYDRANT ARROW LOCATED APPROX. 35'± WEST OF HARTLAND ROAD AND APPROX. 50'± SOUTH OF ROVEY DRIVE. ELEV. — 978.56

#### FLOODPLAIN NOTE:

BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FLOOD INSURANCE RATE MAP NUMBER 26093C0238D, DATED 9/17/2008.



(WIDTH VARIES)

## LEGAL DESCRIPTION

### PARCEL ID 4708-21-400-056

A parcel of land being a part of the South 1/2 of Section 21, T3N-R6E, Hartland Township, Livingston County, Michigan, being more particularly described as

Commencing at the South 1/4 of said Section 21; thence N 02°55'00" W, 214.93 feet along the North-South 1/4 line (as monumented); thence N 80°05'11" E, 970.62 feet along the North Right-of-Way of M-59 (Highland Road); thence N 10°19'02" W, 60.00 feet to a point on the future North Right-of-Way line of said M-59 (120'-1/2 width), and the POINT OF BEGINNING; thence continuing N 10°19'02" W, 197.43 feet; thence N 78°52'35" E, 226.83 feet; thence 81.13 feet along a curve to the right, said curve having a radius of 313.00 feet. a central angle of 14°51'04", and a chord which bears S 10°27'05" E, 80.90 feet; thence S 03°01'33" E, 122.20 feet to a point on the future

Northerly Right-of-Way line of said Highland Road; thence along said Northerly line, S 80°05'11" W, 211.49 feet to the POINT OF BEGINNING. Containing 1.02 acres of land and subject to easements, conditions, restrictions and exceptions of record or otherwise.

PARCEL ID 4708-21-400-077 (Outlot 11) A parcel of land being a part of the South 1/2 of Section 21, T3N-R6E, Hartland Township, Livingston County, Michigan, being more particularly described as follows:

Commencing at the South 1/4 of said Section 21; thence N 02°55'00" W, 275.38 feet along the North-South 1/4 line (as monumented) to the North 120 foot Right-of-Way of M-59 (Highland Road); thence N 80°05'11" E, 962.84 feet along said North Right-of-Way line to the west line of Parcel 4708-21-400-056, also being the east line of Parcel 4708-21-400-072; thence along said line N 10°19'02" W, 175.30 feet the **POINT OF BEGINNING**; thence continuing along said east line of Parcel 4708-21-400-072 N 39°42'06" W, 110.11 feet to the south line of the Hartland Square Drive Easement (width varies); thence along said south line the following five courses and distances: 1) N 52°47'04" E, 39.74 feet; 2) N 50°19'38" E, 44.25 feet; 3) S 40°16'18" E, 10.25 feet; 4) N 51°16'37" E, 110.02 feet to a point of curvature; 5) 50.38 feet along the arc of a curve to the right, said curve having a radius of 40.00 feet, a central angle of 72°10'09", and a chord that bears N 86°04'04" E, 47.12 feet to the westerly line of Hartland Road; thence along said westerly line S 39°58'48" E, 40.03 feet to a point of curvature; thence 120.75 feet along the arc of a curve to the right, said curve having a radius of 313.00 feet, a central angle of 22°06'11", and a chord that bears S 28°55'43" E, 120.00 feet to the north line of said Parcel 4708-21-400-056; thence along said north line S 78°52'35" W, 226.83 feet to the northwest corner of said Parcel 4708-21-400-056; thence S 10°19'02" E, 22.13 feet to the **POINT OF BEGINNING.** Containing 0.71 acres

LEGEND IRON FOUND BRASS PLUG SET
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 ■ SEC. CORNER FOUND MONUMENT FOUND R RECORDED MAIL FOUND MONUMENT SET M MEASURED Ø NAIL & CAP SET C CALCULATED -OH-ELEC-W-O- ELEC., PHONE OR CABLE TV O.H. LINE, POLE & GUY WIRE -UG-CATV UNDERGROUND CABLE TV, CATV PEDESTAL -⊠-UG-PHONE-T TELEPHONE U.G. CABLE, PEDESTAL & MANHOLE -UG-ELEC-E-E-E-ELECTRIC U.G. CABLE, MANHOLE, METER & HANDHOLE GAS MAIN, VALVE & GAS LINE MARKER

WATERMAIN, HYD., GATE VALVE, TAPPING SLEEVE & VALVE SANITARY SEWER, CLEANOUT & MANHOLE STORM SEWER, CLEANOUT & MANHOLE ——— COMBINED SEWER & MANHOLE SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN POST INDICATOR VALVE WATER VALVE BOX/HYDRANT VALVE BOX, SERVICE SHUTOFF MII MAILBOX, TRANSFORMER, IRRIGATION CONTROL VALVE UNIDENTIFIED STRUCTURE 671.21 671 CONTOUR LINE **\_X** FENCE -x---x---x-0 0 0 ☆ STREET LIGHT

#### **GENERAL SITE LIGHTING NOTES:**

CONCRETE

GRAVEL SHOULDER

CONC. -

∕— ASPH. —

∕-GRAVEL-

مهد عهد MELTAND

- THE LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.
- . ALL POLES ARE TO BE MOUNTED ON CONCRETE PEDESTALS 2 FEET ABOVE GRADE AS SHOWN IN DETAIL.
- ALL POLES LOCATED OUTSIDE OF THE PARKING LOT AREA SHALL BE LOCATED 3 FEET FROM BACK OF CURB OR EDGE OF SIDEWALKS AND 5 FEET FROM UTILITIES WHENEVER
- SHOP DRAWINGS FOR THE ELECTRICAL WIRING OF THE FIXTURES NEED TO BE SUPPLIED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR COORDINATION OF UNDERGROUND CONDUIT AND APPROVAL OF LAYOUT.
- . ALL AREA LIGHT FIXTURES ARE TO BE DIRECTED AWAY FROM NEIGHBORING PROPERTIES AND ROADWAYS.
- CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIALS AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
- COORDINATE LIGHT FIXTURE PLACEMENT AND INSTALLATION WITH LANDSCAPE.
- 8. ALL CONDUCTORS SHALL BE IN CONDUIT.

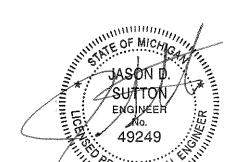
SITE PHOTOMETRIC DATA:		
	ALLOWED	PROPOSED
1. SITE FOOTCANDLE (SITE)  MAIN PARKING AREA  *AVERAGE	2.4 FC - 3.0 FC	2.2 FC
MAIN BUILDING ENTRANCE		
AND ENTRY/EXIT DRIVE *AVERAGE	5.0 FC	2.2 FC
*PROPERTY LINE	1.0 FC (MAX)	1.0 FC (MAX)
SITE MAXIMUM	10.0 FC	6.2 FC
2. **FIXTURE HEIGHT	23 FT. (MAX)	23 FT.

Schedule										
Symbol	Label	Mounting Height (ft)	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
<b>.</b>	P1	23	5	Lithonia Lighting	DSX1 LED P5 40K T4M MVOLT HS	DSX1 LED P5 40K T4M MVOLT with houseside shield	1	12025	0.95	138
<b>.</b>	P2	23	1	Lithonia Lighting	DSX1 LED P6 40K T4M MVOLT HS	DSX1 LED P6 40K T4M MVOLT with houseside shield	1	14462	0.95	163
	Р3	23	2	Lithonia Lighting	DSX1 LED P2 40K BLC MVOLT	DSX1 LED P2 40K BLC MVOLT	1	7293	0.95	70
0.0	P4	23	1	Lithonia Lighting	DSX1 LED P4 40K T4M MVOLT HS	DSX1 LED P4 40K T4M MVOLT with houseside shield	1	11006	0.95	250



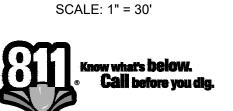
t: 844.813.2949

www.peagroup.com









CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CLIENT **AFFINITY 8** 

INVESTMENTS, LLC
1721 MAPLELANE AVENUE HAZEL PARK, MICHIGAN 48030

PROJECT TITLE

**LOTS 10 & 11 HARTLAND TOWNE SQUARE** 

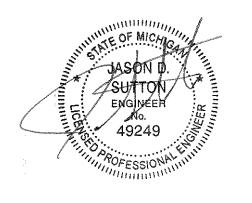
REVISIONS	
PER TOWNSHIP REVIEW	8-23-21

ORIGINAL ISSUE DATE: JULY 13, 2021

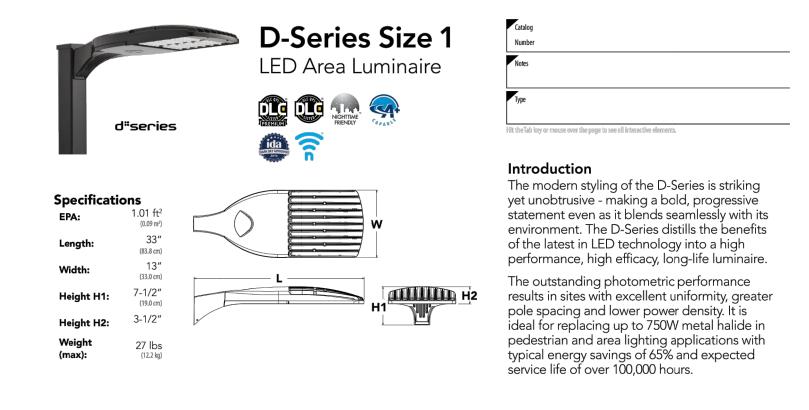
DRAWING TITLE **PHOTOMETRIC PLAN** 

PEA JOB NO.	2018-398
P.M.	JPB
DN.	BLA
DES.	JDS
DRAWING NUMBER	:

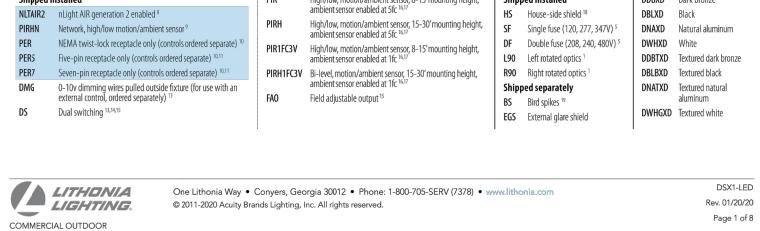




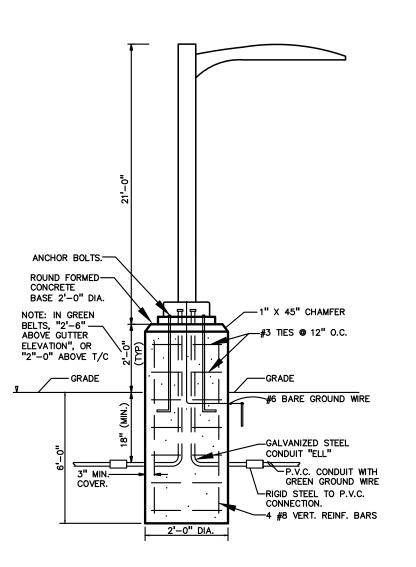
## LUMENS: P1, P2, P3, & P4



Order DSX1 LED	ring Information	EXAMPLE: DSX1 LED P7 4	10K T3M MVOLT SPA NLT	AIR2 PIRHN DDB
Series	LEDs Color temperature	Distribution	Voltage Mounting	
DSX1 LED	Forward optics   30K   3000 K	T1S Type I short T5VS Type V very short 2 T2S Type II short T5S Type V short 2 T2M Type II medium T5M Type V medium 2 T3S Type III short T5W Type V wide 2 T3M Type III medium BLC Backlight control 3 T4M Type IV medium LCCO Left corner cutoff 3 TFTM Forward throw medium	208 S RPA Roun 240 S WBA Wall 277 S SPUMBA Squa 347 S RPUMBA Roun 480 S Shipped separately KMA8 DDBXD U Mast	re pole mounting d pole mounting bracket <sup>2</sup> re pole universal mounting adapto d pole universal mounting adapto arm mounting bracket adaptor ify finish) <sup>7</sup>
Control opt	ions		Other options	Finish (required)
	nLight AIR generation 2 enabled <sup>8</sup> Network, high/low motion/ambient sensor <sup>9</sup> NEMA twist-lock receptacle only (controls ordered separate) <sup>10,11</sup> Seven-pin receptacle only (controls ordered separate) <sup>10,11</sup> Seven-pin receptacle only (controls ordered separate) <sup>10,11</sup> 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) <sup>13</sup> Dual switching <sup>13,14,15</sup>	PIR High/low, motion/ambient sensor, 8-15' mounting height ambient sensor enabled at 5fc <sup>16,17</sup> PIRH High/low, motion/ambient sensor, 15-30' mounting height ambient sensor enabled at 5fc <sup>16,17</sup> PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height ambient sensor enabled at 1fc <sup>16,17</sup> PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>16,17</sup> FAO Field adjustable output <sup>15</sup>	HS House-side shield <sup>18</sup> SF Single fuse (120, 277, 347V) <sup>5</sup> DF Double fuse (208, 240, 480V) <sup>5</sup> L90 Left rotated optics <sup>1</sup>	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bron DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



DSX1-LED



CONCRETE BASE DETAIL
NOT TO SCALE



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CLIENT AFFINITY 8 INVESTMENTS, LLC 1721 MAPLELANE AVENUE HAZEL PARK, MICHIGAN 48030

PROJECT TITLE

LOTS 10 & 11 HARTLAND TOWNE SQUARE HARTLAND, MICHGIAN

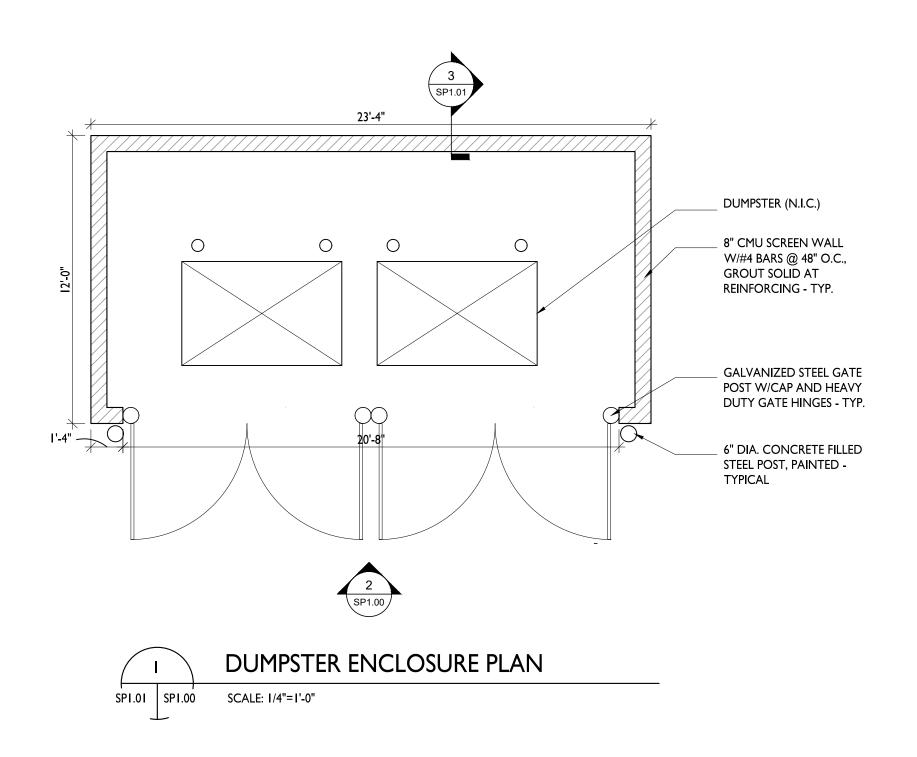
REVISIONS	
PER TOWNSHIP REVIEW	8-23-21

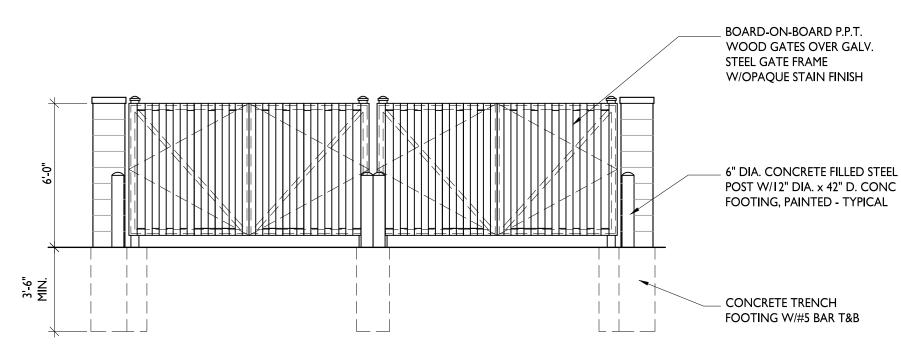
ORIGINAL ISSUE DATE: JULY 13, 2021

DRAWING TITLE

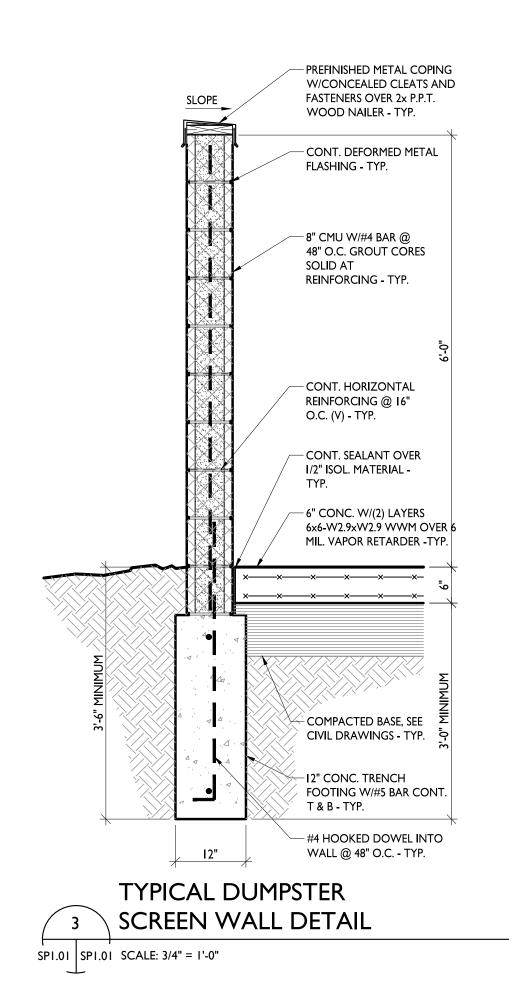
**PHOTOMETRIC DETAILS** 

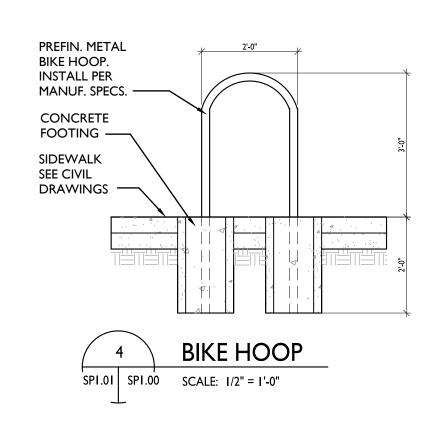
PEA JOB NO.	2018-398
P.M.	JPB
DN.	BLA
DES.	JDS
DRAWING NUMBER	•



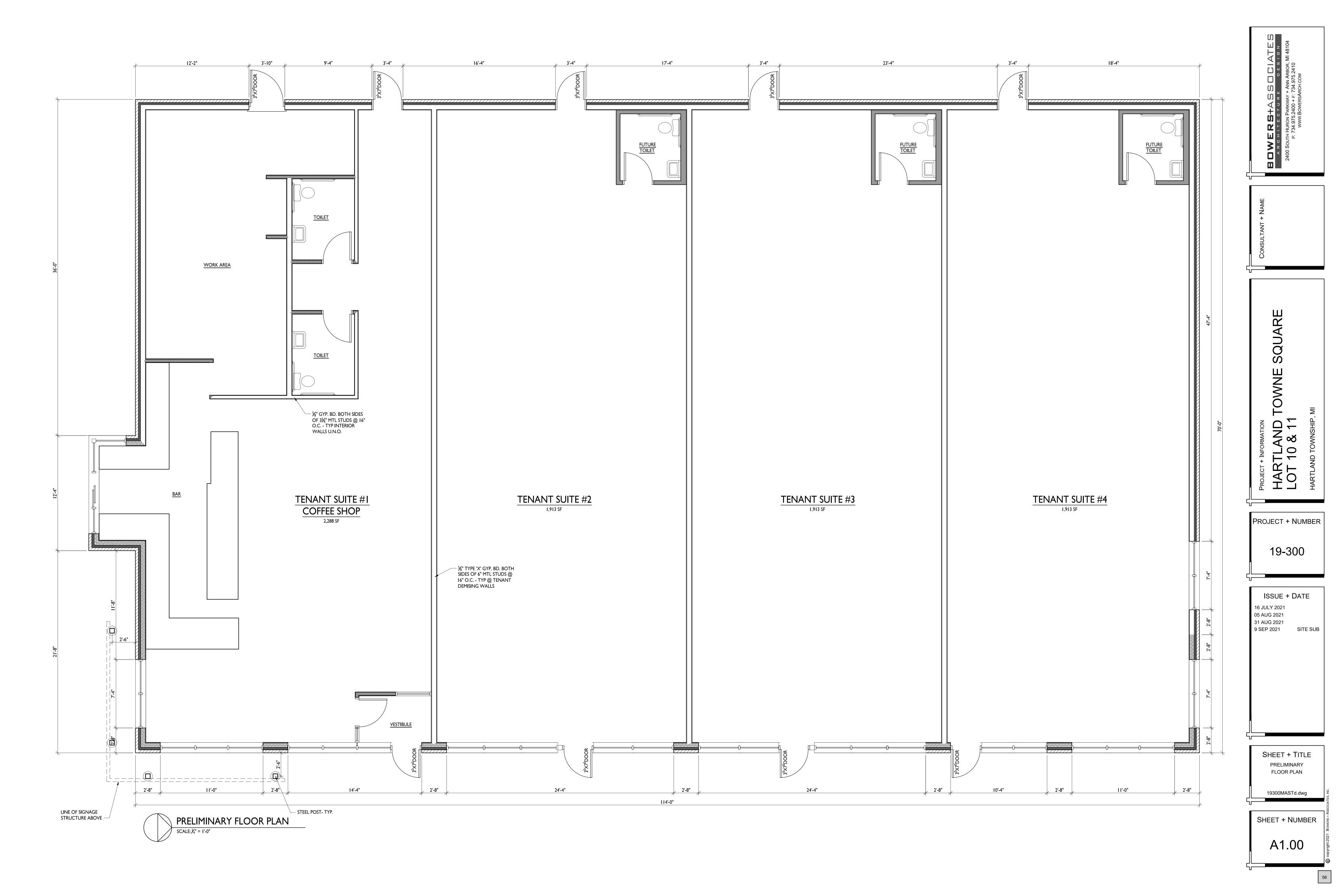


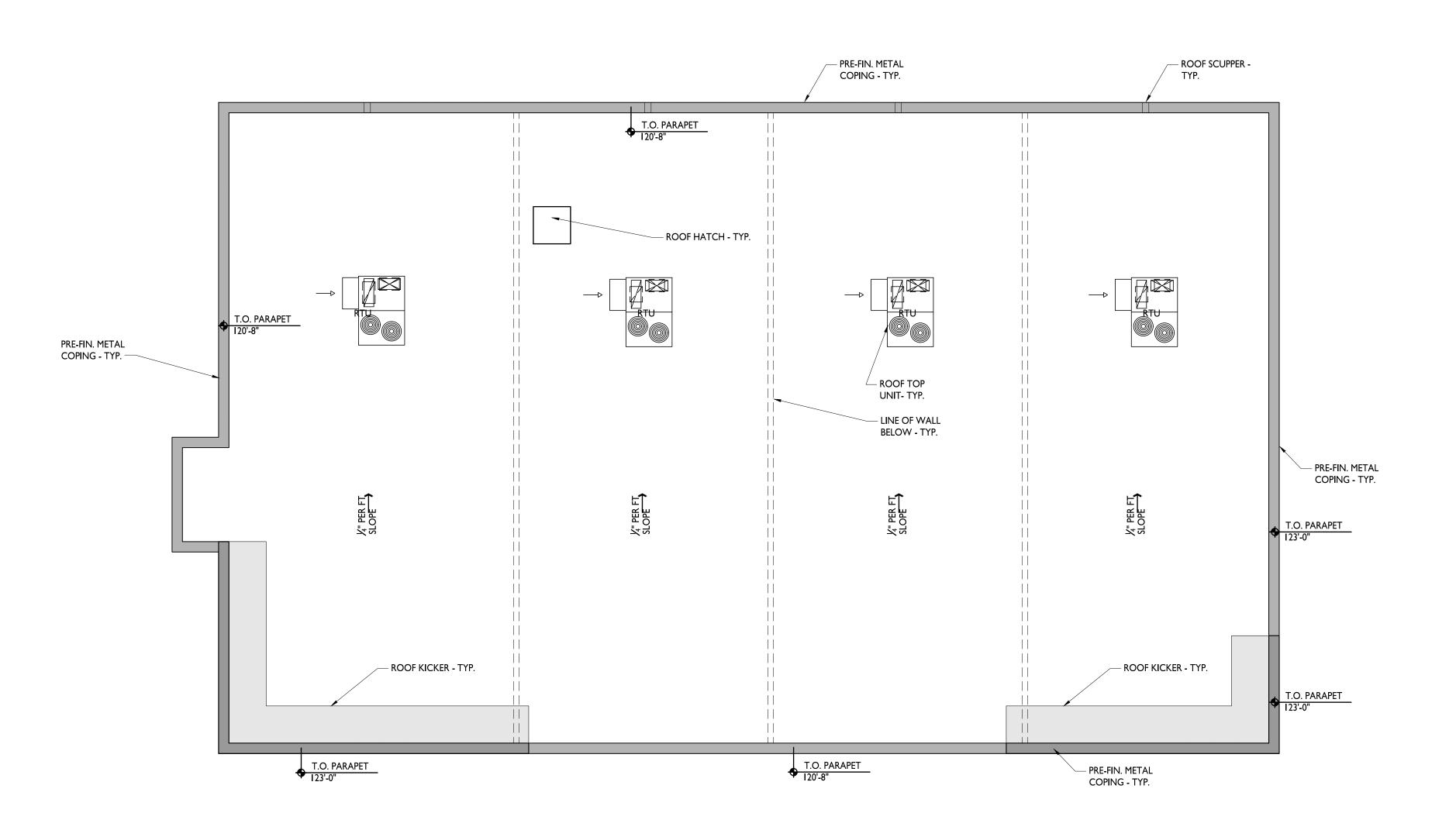






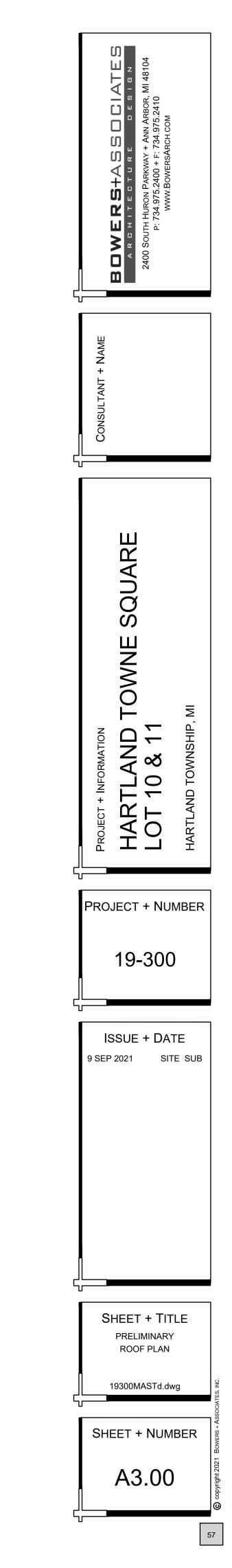


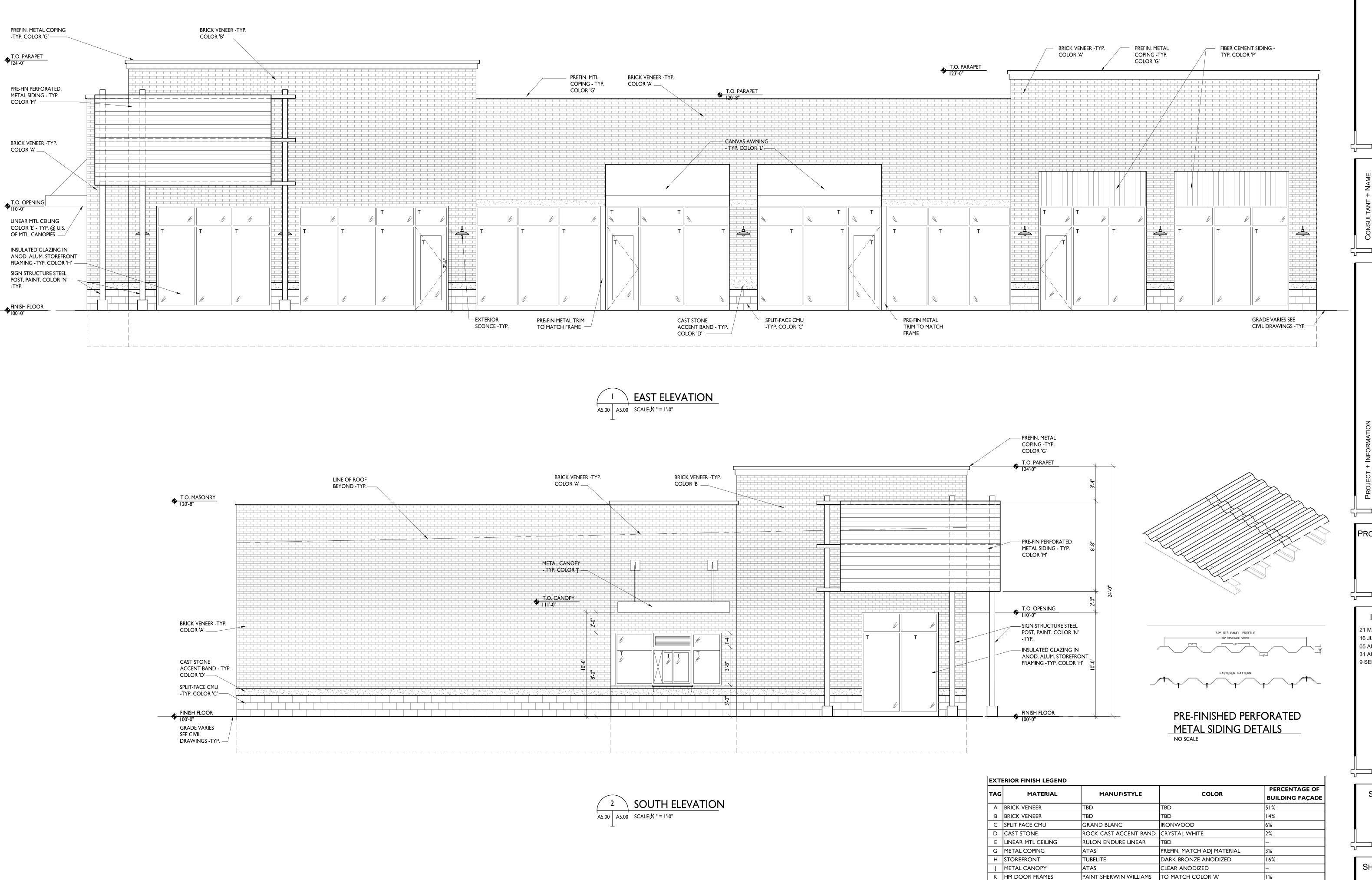




PRELIMINARY ROOF PLAN

SCALE: 1/8" = 1'-0"





BOWERSARCH.COM

ARCHITECTURE DESIGN

2400 SOUTH HURON PARKWAY + ANN ARBOR, MI 48104

P: 734.975.2400 + F: 734.975.2410

www.BOWERSARCH.COM

CONSULTANT + NAME

PROJECT + INFORMATION
HARTLAND TOWNE SQUARE
LOT 10 & 11

PROJECT + NUMBER

ISSUE + DATE

21 MAY 2021 PRELIM

16 JULY 2021

05 AUG 2021

31 AUG 2021

9 SEP 2021 SITE SUB

SHEET + TITLE
PRELIMINARY
ELEVATIONS

19300A500d.dwg

SHEET + NUMBER

A5.00

TBD

TBD

NICHIHA

TBD

TBD

CLEAR ANODIZED

TO MATCH COLOR 'H'

L CANVAS AWNING

N STEEL POST PAINT

P FIBER CEMENT SIDING

M PERFORATED METAL SIDING PAC-CLAD

