

7275 W. MAIN STREET, KALAMAZOO, MI 49009-9334 269-216-5220 Fax 375-7180 TDD 375-7198 www.oshtemo.org

# NOTICE OSHTEMO CHARTER TOWNSHIP ZONING BOARD OF APPEALS - REGULAR MEETING

# MEETING WILL BE HELD <u>IN PERSON</u> AT OSHTEMO TOWNSHIP HALL 7275 W MAIN STREET

Masks Are Now Optional in Oshtemo Township Buildings

(Meeting will be available for viewing through <a href="https://www.publicmedianet.org/gavel-to-gavel/oshtemo-township">https://www.publicmedianet.org/gavel-to-gavel/oshtemo-township</a>)

### TUESDAY, AUGUST 23, 2022 3:00 P.M.

#### **AGENDA**

- 1. Call to Order
- 2. Pledge of Allegiance
- 3. Approval of Agenda
- 4. Public Comment on Non-Agenda Items
- 5. Approval of Minutes: July 26<sup>th</sup>, 2022
- 6. Site Plan FlavorSum Building Addition

On behalf of the owner, HCD Properties LLC, is requesting site plan approval to construct a 30,084 SF building addition, a 749 SF building addition, and a 1,023 SF building addition onto the existing building located at 3680 Stadium Park Way.

- 7. Other Updates and Business
- 8. Adjournment

### Policy for Public Comment Township Board Regular Meetings, Planning Commission & ZBA Meetings

All public comment shall be received during one of the following portions of the Agenda of an open meeting:

a. Citizen Comment on Non-Agenda Items or Public Comment – while this is not intended to be a forum for dialogue and/or debate, if a citizen inquiry can be answered succinctly and briefly, it will be addressed or it may be delegated to the appropriate Township Official or staff member to respond at a later date. More complicated questions can be answered during Township business hours through web contact, phone calls, email (oshtemo@oshtemo.org), walkin visits, or by appointment.

b. After an agenda item is presented by staff and/or an applicant, public comment will be invited. At the close of public comment there will be Board discussion prior to call for a motion. While comments that include questions are important, depending on the nature of the question, whether it can be answered without further research, and the relevance to the agenda item at hand, the questions may not be discussed during the Board deliberation which follows.

Anyone wishing to make a comment will be asked to come to the podium to facilitate the audio/visual capabilities of the meeting room. Speakers will be invited to provide their name, but it is not required.

All public comment offered during public hearings shall be directed, and relevant, to the item of business on which the public hearing is being conducted. Comment during the Public Comment Non-Agenda Items may be directed to any issue.

All public comment shall be limited to four (4) minutes in duration unless special permission has been granted in advance by the Supervisor or Chairperson of the meeting.

Public comment shall not be repetitive, slanderous, abusive, threatening, boisterous, or contrary to the orderly conduct of business. The Supervisor or Chairperson of the meeting shall terminate any public comment which does not follow these guidelines.

(adopted 5/9/2000) (revised 5/14/2013) (revised 1/8/2018)

Questions and concerns are welcome outside of public meetings during Township Office hours through phone calls, stopping in at the front desk, by email, and by appointment. The customer service counter is open from Monday-Thursday 8:00 am-5:00 pm, and on Friday 8:00 am-1:00 pm. Additionally, questions and concerns are accepted at all hours through the website contact form found at <a href="www.oshtemo.org">www.oshtemo.org</a>, email, postal service, and voicemail. Staff and elected official contact information is provided below. If you do not have a specific person to contact, please direct your inquiry to <a href="mailto:oshtemo@oshtemo.org">oshtemo@oshtemo.org</a> and it will be directed to the appropriate person.

		temo Township rd of Trustees
Supervisor Libby Heiny-Cogswell	216-5220	libbyhc@oshtemo.org
<u>Clerk</u> Dusty Farmer	216-5224	dfarmer@oshtemo.org
<u>Treasurer</u> Clare Buszka	216-5221	cbuszka@oshtemo.org
<u>Trustees</u> Cheri L. Bell	372-2275	cbell@oshtemo.org
Kristin Cole	375-4260	kcole@oshtemo.org
Zak Ford	271-5513	zford@oshtemo.org
Kizzy Bradford	375-4260	kbradford@oshtemo.org

Township	Departr	nent Information
Assessor:		
Kristine Biddle	216-5225	assessor@oshtemo.org
Fire Chief:		
Mark Barnes	375-0487	mbarnes@oshtemo.org
Ordinance Enf:		
Rick Suwarsky	216-5227	rsuwarsky@oshtemo.org
Parks Director:		
Karen High	216-5233	khigh@oshtemo.org
Rental Info	216-5224	oshtemo@oshtemo.org
Planning Directo	<u>r:</u>	
Iris Lubbert	216-5223	ilubbert@oshtemo.org
Public Works:		
Marc Elliott	216-5236	melliott@oshtemo.org

### OSHTEMO CHARTER TOWNSHIP ZONING BOARD OF APPEALS

## DRAFT MINUTES OF A REGULAR MEETING HELD JULY 26, 2022 AT OSHTEMO TOWNSHIP HALL, 7275 WEST MAIN STREET

#### Agenda

PUBLIC HEARING – VARIANCE, HARDING'S FRIENDLY MARKET (WITHDRAWN) Sign Art, Inc. on behalf of Meyer C. Weiner, Co., was requesting a variance in order to install three wall signs where one is allowed at 5161 West Main Street.

#### SITE PLAN - H & K EXCAVATING

H & K Excavating was requesting site plan approval to expand their building at 7504 Stadium Drive by 5,450 square feet and place a 5,000 square foot accessory building onsite. Parcels #05-34-180-059 and #05-34-205020.

A meeting of the Oshtemo Charter Township Zoning Board of Appeals was held Tuesday, July 26, 2022, beginning at approximately 3:00 p.m.

ALL MEMBERS PRESENT WERE: Anita Smith, Chair

Dusty Farmer Fred Gould Harry Jachym Micki Maxwell

Louis Williams, Vice Chair

Also present were Iris Lubbert, Planning Director, Jim Porter, Township Attorney and Martha Coash, Recording Secretary.

The three guests present included Kyle Mucha of McKenna and Alex Frazier of H & K.

#### Call to Order and Pledge of Allegiance

Chairperson Smith called the meeting to order and invited those present to join in reciting the "Pledge of Allegiance."

#### Approval of Agenda

The Chair noted agenda item 6, a variance request from Harding's should be withdrawn at the applicant's request, and "Other Business" should be included following the H & K item on the agenda. She asked for a motion to make those changes.

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Ms. Farmer <u>made a motion</u> to revise the meeting agenda as requested. Ms. Maxwell <u>seconded the motion</u>. <u>The motion was approved unanimously.</u>

Chairperson Smith moved to the next agenda item.

#### **Public Comment on Non-Agenda Items**

As the Chair determined there were no comments, she moved to the next item.

#### Approval of the Minutes of April 26, 2022

Chairperson Smith asked for any corrections to the minutes. Hearing none she asked for a motion of approval.

Ms. Maxwell <u>made a motion</u> to approve the Minutes of April 26, 2022, as presented. Mr. Williams <u>seconded</u> the motion. The motion was approved unanimously.

Chairperson Smith moved to the next agenda item.

#### SITE PLAN - H & K EXCAVATING

H & K Excavating was requesting site plan approval to expand their building at 7504 Stadium Drive by 5,450 square feet and place a 5,000 square foot accessory building onsite. Parcels #05-34-180-059 and #05-34-205020, Zoned I-1.

Mr. Kyle Mucha, Senior Planner for McKenna, the consultant on this project, said on behalf of the Oshtemo Planning Department, they reviewed the site plan resubmission for the proposed office expansion, site improvements, future addition to the existing garage space, new storm water management system and erection of a standalone accessory building. He said the review was based on the resubmitted site plan dated 5/4/2022 and accompanying response letter from the applicant's engineer, Hurley & Stewart, dated 6/22/2022. Additionally, previous site plans did not indicate the placement of a 50' x 100' accessory structure: the supplemental plans dated 7/12/2022 corrected this missing information.

He indicated the primary development site is approximately 7.763-acres and is located on the north side of Stadium Drive, east of Stadium Parkway. The secondary site, located to the immediate east, is 13.5 acres in size.

The site is mostly wooded with one (1) existing commercial/industrial building located on the northern portion of the site. The applicant proposed to construct an additional 1,400 sq ft of office space on the southern portion of the existing building, and an additional 4,050 (50' x 81') of garage/warehouse space on the northern portion of the existing building. The applicant also proposed to utilize the parcel located directly east for storm water management and retention. The proposal includes the permanent placement of a 5,000 (50' x 100') accessory building (hoop structure): insufficient details were provided

on this structure at this time. The proposed office, accessory building and warehouse expansion of the existing contractor/landscape business is a permitted use in the I-1, Industrial District, as defined in Section 27.20 of the Township Zoning Ordinance.

#### RECOMMENDATION:

Mr. Mucha noted the site plan was amended to address the concerns outlined in their review memo dated 4/19/2022 and 6/13/2022. Based on these revisions, McKenna supported approval of the site plan subject to the applicant meeting the following conditions outlined below:

- 1. Clarification as to the loading/unloading space placed on the western portion of the property: will this space be used to unload equipment and landscaping material or used for non-material delivery.
  - 2. Clarification as to the loading/unloading of landscaping materials.
  - 3. Clarification to access drive/pathway to accessory building (hoop structure).
- 4. Use statement related to the accessory building (hoop structure): is this a temporary structure as indicated on the site plan or permanent. If permanent, footing and foundation details will need to be provided.
- 5. Accessory structure (hoop building) to meet the minimum setback distance of 25 feet from the east property line.
- 6. Site plan to be scaled at a 1:20 ratio. Site plan to show entire property and all existing and proposed structures.
- 7. Any other comments provided by additional reviewing agencies. (Ms. Lubbert noted both the Township Engineer and Fire Marshall had reviewed the application and had no concerns.)

#### SITE DESCRIPTION:

Mr. Mucha provided comments on specific site plan requirements and indicated that other than the conditions listed above, the applicant's amended plan meets requirements.

### ACCESSORY STRUCTURE (§50.60.C.)

Mr. Mucha said the applicant amended the site plan, dated 7/12/2022, to include a 50-foot by 100-foot (5,000 square feet) accessory building (hoop structure) in the rear of the subject site. Section 50.60.C. of the Township Zoning Ordinance requires the minimum setback distance between any accessory building and any rear or interior side property line in the I-2 Industrial District, shall be 20 feet or the height of the accessory building at its highest point as measured from the grade of the property line, whichever is greater.

The applicant indicates the structure is 20 feet from the east property line, and 35 feet from the north property line. The structure height is approximately 25 feet tall. Based on this information, the structure does not meet the required setbacks.

In addition, the applicant has not provided details pertaining the intended use of the structure. The site plan notes it is temporary in nature. If the structure is permanent, footings and foundation details will need to be provided. Based on a use statement, the Township will determine if this is an accessory or principal structure. Access and site circulation will need to be reviewed based on the statement of use. Further, based on the plan not including the full extent and property lines, they were unable to determine if its location is acceptable and meets the Zoning Ordinance.

Chairperson Smith thanked Mr. Mucha for his comments and asked if there were questions from Board members.

Mr. Maxwell asked for clarification on how stormwater would be handled.

Ms. Lubbert said there would be a retention basin on the south side of the property and that the design was approved by the Township Engineer.

The Chair asked if the applicant wished to speak.

Mr. Alex Frazier, H & K, addressed the six specific conditions set forth for approval:

- 1. He said the intent for loading/unloading is to unload equipment and materials
- Landscaping materials would involve maybe topsoil and equipment on a trailer to head out for the day
- 3. Currently the access driveway will be gravel; they will update the site plan to show the connection to the paved drive.
- 4. The hoop structure will be placed temporarily with the intention of moving it around the property as needed for flexibility; no footings are necessary
- 5. They will check and review the setback internally
- 6. They will provide a 1:20 site plan

Mr. Frazer said it was their intent to comply with all conditions as requested.

Ms. Lubbert indicated Township staff will work with the applicant to explore options in order to achieve the required 25 foot setback requirement for the accessory building. She noted when talking about loading and unloading, limited outdoor storage is allowed in I-1.

Hearing nothing further, the Chair moved to Board Deliberations.

The Chair was concerned about how the 25 foot setback would be achieved.

Ms. Lubbert said if the Board approves the site plan with the conditions outlined by staff, the applicant will have to meet all of the conditions before a building permit is approved.

Mr. Williams noted the applicant has agreed to meet all seven conditions.

Ms. Maxwell asked if the Planning Dept. can work with the applicant to take care of the 25 foot setback issue.

Ms. Lubbert said the setback will need to be met by wither relocating the building or the adjoining property that the applicant owns will need to be combined with this site so there will no longer be an setback issue.

Ms. Lubbert noted both the Township Engineer and Fire Marshall had reviewed the application and had no concerns.

Ms. Farmer <u>made a motion</u> to approve the site plan as requested with the seven conditions set forth by McKenna:

- 1. Clarification as to the loading/unloading space placed on the western portion of the property: will this space be used to unload equipment and landscaping material or used for non-material delivery.
- 2. Clarification as to the loading/unloading of landscaping materials.
- 3. Clarification to access drive/pathway to accessory building (hoop structure).
- 4. Use statement related to the accessory building (hoop structure): is this a temporary structure as indicated on the site plan or permanent. If permanent, footing and foundation details will need to be provided.
- 5. Accessory structure (hoop building) to meet the minimum setback distance of 25 feet from the east property line.
- 6. Site plan to be scaled at a 1:20 ratio. Site plan to show entire property and all existing and proposed structures.
- 7. Any other comments provided by additional reviewing agencies.

Mr. Williams seconded the motion. The motion was approved unanimously.

#### **Other Updates and Business**

Chairperson Smith introduced and the group welcomed new ZBA board member Mr. Harry Jachym.

In response to questions about the site plan request, it was noted this was the first site plan request to come before the ZBA this year. Ms. Lubbert explained that the Township's ordinance is currently set up so that the more 'straightforward' site plans come to the ZBA, a process specific to the Township, not the State of Michigan.

Attorney Porter reaffirmed that though most site plan requests go to the Planning Commission, some of the more routine ones come to the ZBA.

Ms. Farmer said they are more used to solving problems posed in variance requests than with site plans.

Ms. Lubbert said she could work with McKenna on future site plan requests to provide a format the Board is more used to seeing.

#### **Adjournment**

Chairperson Smith noted the Zoning Board of Appeals had exhausted its agenda. There being no other business, she adjourned the meeting at approximately 3:30 p.m.

Minutes prepared: July 27, 2022
Minutes approved: , 2022

August 17, 2022

Mtg Date: August 23, 2022

**To:** Oshtemo Township Zoning Board of Appeals

**From:** Colten Hutson, Zoning Administrator

**Applicant:** Elaine Westhouse, Comprehensive Engineering

Owner: HCD Properties, LLC

**Property**: 3680 Stadium Park Way, Parcel Number 05-34-155-050

**Zoning:** I-1: Industrial District

**Request:** Site plan approval to construct a 30,084 SF building addition, a 749 SF building addition,

and a 1,023 SF building addition onto the existing 34,989 SF building on-site.

**Section(s):** Section 64: Site Plan Review

Section 48.70: Manufacturing, Compounding, Assembling, or Treatment of Merchandise

Section 27: I-1 Industrial District

#### **PROJECT SUMMARY:**

Comprehensive Engineering, on behalf of the owner, HCD Properties LLC, is requesting site plan approval construct a 30,084 SF building addition, a 749 SF building addition, and a 1,023 SF building addition onto the existing building located at 3680 Stadium Park Way. Currently serving as an office and a manufacturing facility for food flavorings, applicant is seeking to expand their business operations. The expansion provide will additional for space



warehouse and cold storage. The project area under consideration is outlined in light blue on the map above with the subject building additions illustrated through the red and white hatch marks.

3680 Stadium Park Way falls within the I-1: Industrial District zoning classification. The existing manufacturing use is a permitted use with conditions within the I-1: Industrial District. The proposed warehouse and cold storage uses are permitted by right within the I-1: Industrial District.

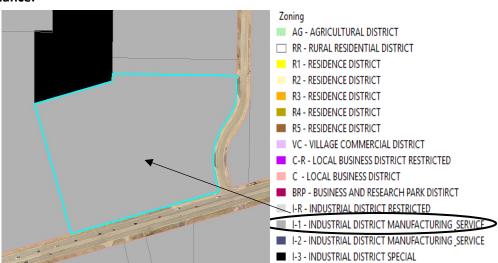
#### **ANALYSIS:**

When reviewing this site plan review request, there are two sets of criteria that need to be considered: the general site plan review criteria outlined in Section 64, and the conditions for specific permitted use requirements outlined in Section 48.70. Below is an analysis of the proposal against these two code sections. Overall, most of the requirements of Section 64 and Section 48.70 have been met.

#### Section 64: Site Plan Review

#### **General Zoning Compliance:**

Zoning: 3680 Stadium Parkway is zoned I-1: Industrial District and located within the southwest quadrant of the Township. The subject property abuts an undeveloped parcel to its west, a food packaging company and a concrete materials recycling yard to the north, a



self-storage facility to the east, and other various industrial land uses to its south. All uses above are also zoned I-1: Industrial District except for the concrete materials recycling yard use to the north which is zoned I-3: Industrial District. The proposed warehouse and cold storage uses are permitted uses by right within the I-1: Industrial District. The existing manufacturing component of this proposal is a permitted use with conditions within the mentioned zoning district. With the proposed additions, the percentage of land covered by buildings will increase to 14%. 66% of the site will remain as open space.

#### **Access and Circulation**

Access: The site under consideration already possesses two access drives adjacent to Stadium Park Way. The site is designed to accommodate two-way travel throughout the site. All circulation aisles on-site are a minimum of 24 Ft in width. Other than the additional bituminous pavement to accommodate parking and site circulation on the north and south sides of the building, all circulation aisles will remain unchanged. The Fire Marshal has reviewed the site plan and found it adequate to service emergency vehicle circulation.

Parking: The site currently has 60 parking spaces in total, four of which are ADA accessible. All existing and proposed parking stalls are 10 Ft x 20 Ft. Office uses are allowed one parking space for every 150 square feet of net floor area (4,987 SF in total). Manufacturing/processing is allowed 1.5 spaces for every 1,000 square feet of net floor area (17,332 SF in total). Warehousing/distribution is one space for each 1,500 square feet of net floor area (36,197 SF in total). After calculating the parking needed for the various uses proposed to occupy the site, a total of 84 parking spaces would be required. The applicant was able to meet such parking

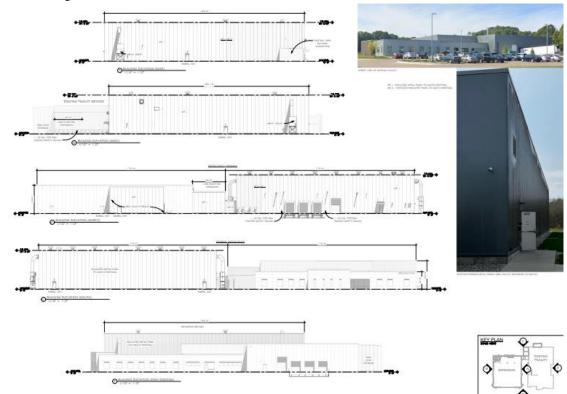
requirements by proposing a total of 85 parking spaces, which is well under the maximum number of spaces allowed for sites of this nature.

Easements: There is a 20 Ft wide water easement proposed to run along the north side of the building. The easement will need to be dedicated to Oshtemo Township. Such an extension will require coordination with the Public Services Department at the City of Kalamazoo. Other than the proposed watermain easement, there are no changes to the current easements on-site.

Shared Use Path: The Township's Non-motorized Plan does identify a non-motorized facility adjacent to the subject site on the north side of Stadium Drive. A 6 Ft wide concrete sidewalk in said location is currently proposed on the site plan and will be required to be installed prior to releasing a certificate of occupancy. It should be noted that Oshtemo Public Works has been in communication with the applicant and is currently working on a final design plan on the sidewalk. If any portion of the sidewalk is required to be located outside of the public right-of-way in order to avoid safety concerns and utility conflicts, a sidewalk easement will be required to be recorded at the Kalamazoo County Register of Deeds Office.

#### **Building Design**

Building Information: The 34,989 SF building was originally constructed in 2017 and is approximately 26 Ft tall. The proposed building additions will be located on the north and west ends of the existing building, combining for a total of 31,856 SF in additional square footage. The exterior material proposed for the addition is an insulated metal panel siding that is gray in color. The elevation sheet that was submitted with the site plan shows that the addition will match the existing façade and architectural features of the existing portion of the building. See images of the building's elevations below.



Lot Dimensions: The site under consideration is about 11 Acres (474,525 SF) and has approximately 1,266 Ft of road frontage adjacent to public roadway. The parcel exceeds both the property area (50,000 SF minimum) and frontage (200 Ft minimum) requirements of the I-1: Industrial District. The site's dimensions satisfy zoning ordinance requirements.

Setbacks: Properties located within Industrial zoning districts are required to have a minimum front yard setback of 70 Ft. If properties are located along a designated highway within the Township, they are subject to additional setback requirements if greater than what is outlined for the underlying zoning district. The subject property possesses two front yards, one along Stadium Park Way, and the other along Stadium Drive, which happens to be a designated highway. The minimum front yard setback from Stadium Park Way is 70 Ft. The minimum setback requirement from Stadium Drive is 120 Ft from the center of the street right-of-way. The building is setback approximately 200 Ft from the front property line along Stadium Park Way and 215 Ft from the center of the street right-of-way on Stadium Drive. Properties zoned as Industrial are also subject to have a minimum side and rear yard setback of 20 Ft or equal to the height of the abutting side of the building at its highest point as measured from the grade of the property line, whichever is greater. The height of the building is 37 Ft tall, which requires a minimum setback in the side and rear yards of 37 Ft, which is proposed. The minimum setbacks for the front yard, side yard, and rear yard have all been met.

Waste Disposal Container: No changes to the current on-site waste disposal container is proposed. This portion of the review is not applicable.

*Fencing:* No changes to the current on-site fencing is proposed. This portion of the review is not applicable.

*Lighting:* A photometric plan has been provided. Several new pole mounted lights and building mounted lights are proposed. All lighting ordinance requirements have been met.

*Signs:* No changes to the current on-site signage is proposed. This portion of the review is not applicable.

#### Landscaping

The landscaping plan that was submitted is satisfactory as the applicant is proposing to preserve a number of existing trees in addition to planting several different tree species on-site. Such plantings are proposed to be installed between Stadium Drive and the parking lot on the south side of the building, providing a streetscape type aesthetic. All landscaping requirements within the Zoning Ordinance have been met.

#### **Engineering**

Prein & Newhof and the Oshtemo Public Works Department have reviewed the project site plan and overall are happy with the proposal. Oshtemo Public Works is coordinating with the applicant on the final design plans for the non-motorized facility adjacent to Stadium Drive. It is suggested that any further review and approvals on this item be handled administratively with Oshtemo Public Works.

#### **Fire Department**

The Fire Marshal has reviewed the site plan and is satisfied with the proposal. The Fire Marshal expressed that the on-site circulation for fire apparatus on the south side of the building has significantly improved with the proposed site modifications.

<u>Section 48.70: Conditions for Specific Permitted Uses - Manufacturing, Compounding, Assembling, or Treatment of Merchandise</u>

## Specific Use Requirements: The Conditions for Specific Permitted Use development requirements of Article 48.

Per Section 48.70 of the Zoning Ordinance, there are two specific requirements that must be met for manufacturing type uses within the Township. Each requirement is outlined below. Staff have confirmed that such requirements outlined under Section 48.70 of the Zoning Ordinance will be met.

- A. All work must be carried on within an enclosed building.
   Requirement Satisfied. Please see Note 15 on Sheet C101 of Site Plan.
- B. Work carried on must not emanate noise, smoke, odor, dust, dirt, noxious gases, glare, heat, vibration or psychological ill effects to such an extent as will be a nuisance or annoyance to owners or occupants of surrounding premises.
  - Requirement Satisfied. Please see Note 16 on Sheet C101 of Site Plan.

#### RECOMMENDATION:

Planning Department staff recommend the approval of the proposed Site Plan for a 30,084 SF building addition, a 749 SF building addition, and a 1,023 SF building addition at 3680 Stadium Park Way with the following conditions.

- 1) A Soil Erosion and Sedimentation Control (SESC) permit from the Kalamazoo County Drain Commissioner's Office will be required prior to building permit issuance.
- 2) A permit by the Road Commission of Kalamazoo County authorizing work within the public right-of-way will be required prior to building permit issuance.
- 3) An 8" watermain connection is proposed on the north side of the building. All watermain connections shall be coordinated with the City of Kalamazoo Department of Public Services. Water Fees for additional usage shall be paid to the Township prior to building permit issuance. Acceptance of watermain construction and testing must be provided prior to issuing a certificate of occupancy.
- 4) A 6" sanitary sewer connection is proposed to an existing lead off of Stadium Drive. Sewer Fees for additional connection shall be paid to the Township prior to building permit issuance. Prein & Newhof shall be notified in advance for inspection of this connection for any work in the public right-of-way or easements.
- 5) Finalization for the design of the non-motorized facility or any other engineering details shall be subject to the administrative review and approval of the Township Engineer prior to building permit issuance.
- 6) An updated planning and zoning application with the applicant's signature as well as the property owner's signature will be required to be submitted prior to building permit issuance.
- 7) Copies of the necessary recorded easements shall be provided to the Township prior to issuing a certificate of occupancy.

8) All non-motorized facilities on the approved site plan shall be installed prior to issuing a certificate of occupancy.

Attachments: Application, Letter of Intent, Site Plan, and Stormwater Calculations.



7275 W. Main Street, Kalamazoo, Michigan 49009-9334 Phone: 269-216-5223 Fax: 269-375-7180

### PLEASE PRINT

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FLAVORSUM, 3680 STADIUM PARK WAY

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Company	FLAVORSUM	THIS
Address	3680 STADIUM PARK WAY	SPACE
	KALAMAZOO, MI	FOR TOWNSHIP
E-mail	KKERNER@FLAVORSUM.COM	USE
Telephone	900 525 2421	ONLY
_	Property DIRECTOR OF OPERATIONS & SITE LEADER	
OWNER*:		
Name	HCD PROPERTIES LLC	_
Address	3680 STADIUM PARK WAY	Fee Amount
	KALAMAZOO, MI	Escrow Amount
Email	HINKLE.DAN@GMAIL.COM	_
Phone & F	ax <u>269-720-3135</u>	
F 	Planning Escrow-1042 Site Plan Review-1088 Administrative Site Plan Review-1086 Special Exception Use-1085 Coning Variance-1092 Site Condominium-1084 ccessory Building Review-1083	Land Division-1090 _Subdivision Plat Review-1089 _Rezoning-1091 _Interpretation-1082 _Text Amendment-1081 _Sign Deviation-1080 _Other:
	RIBE YOUR REQUEST (Use Attachments if Necessa	гу):
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WE ARE REQ		T THE ADDRESS REFERENCED ABOVE.

IMPROVEMENTS.

PARCEL NUME	BER: 3905- 05-34-155-050	
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PRESENT ZON	INGI-1 INDUSTRIAL	SIZE OF PROPERTY10.9ACRES
HAVING		ER PERSONS, CORPORATIONS, OR FIRM LE INTEREST IN THE PROPERTY:  Address(es)
	SIGNA	TUDES
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June 2, 2022

Mr. Colten Hutson Zoning Administrator Oshtemo Charter Township 7275 W. Main St. Kalamazoo, MI 49009

Re: Flavorsum

3680 Stadium Parkway Kalamazoo, MI 49009

Dear Mr. Colten Hutson,

This letter is to request site plan approval for the proposed addition to the existing Flavorsum facility located at the location referenced above. The existing facility has area for manufacturing of food flavorings and office space. The owner is proposing to construct a 29,800SF warehouse building addition with loading docks. The building addition is intended to be fully sprinkled with a new water service. The proposed site modification includes additional paved surface for parking and loading dock access, pedestrian sidewalks, new water and sanitary sewer services, stormwater management features and landscaping as shown on the site plan review set of drawings submitted for review.

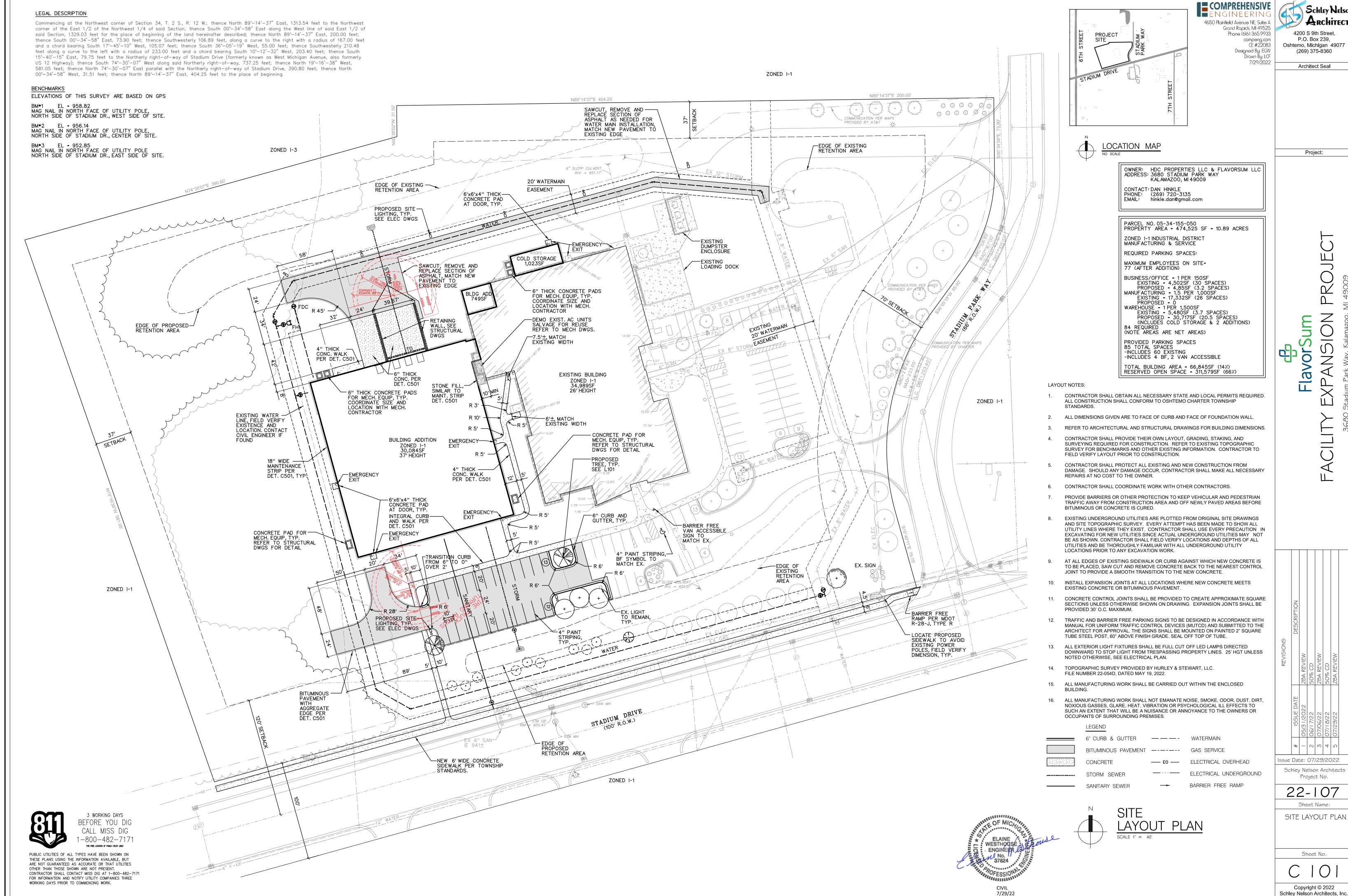
If you have any questions or concerns, please feel free to contact me.

Sincerely,

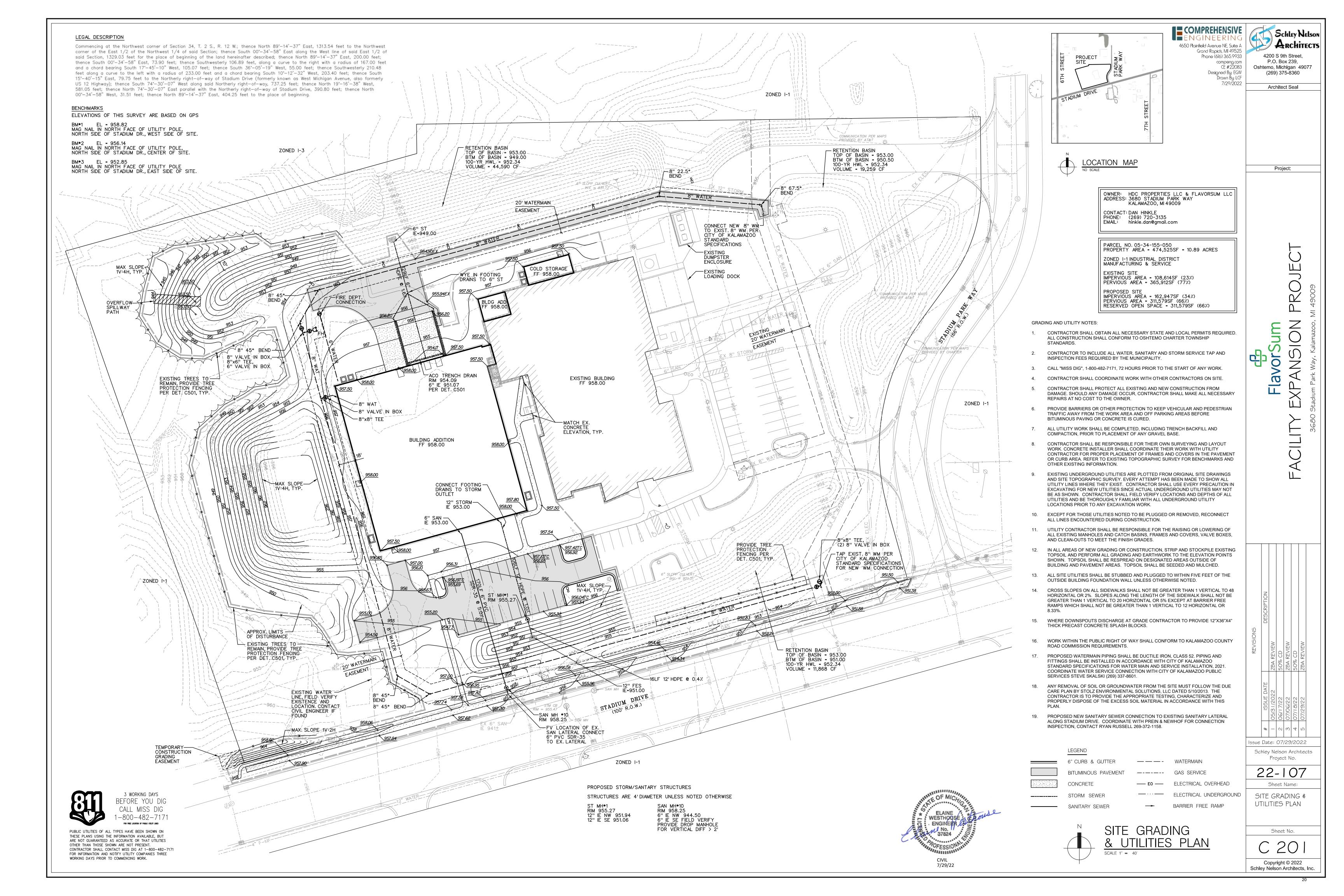
COMPREHENSIVE ENGINEERING, PC

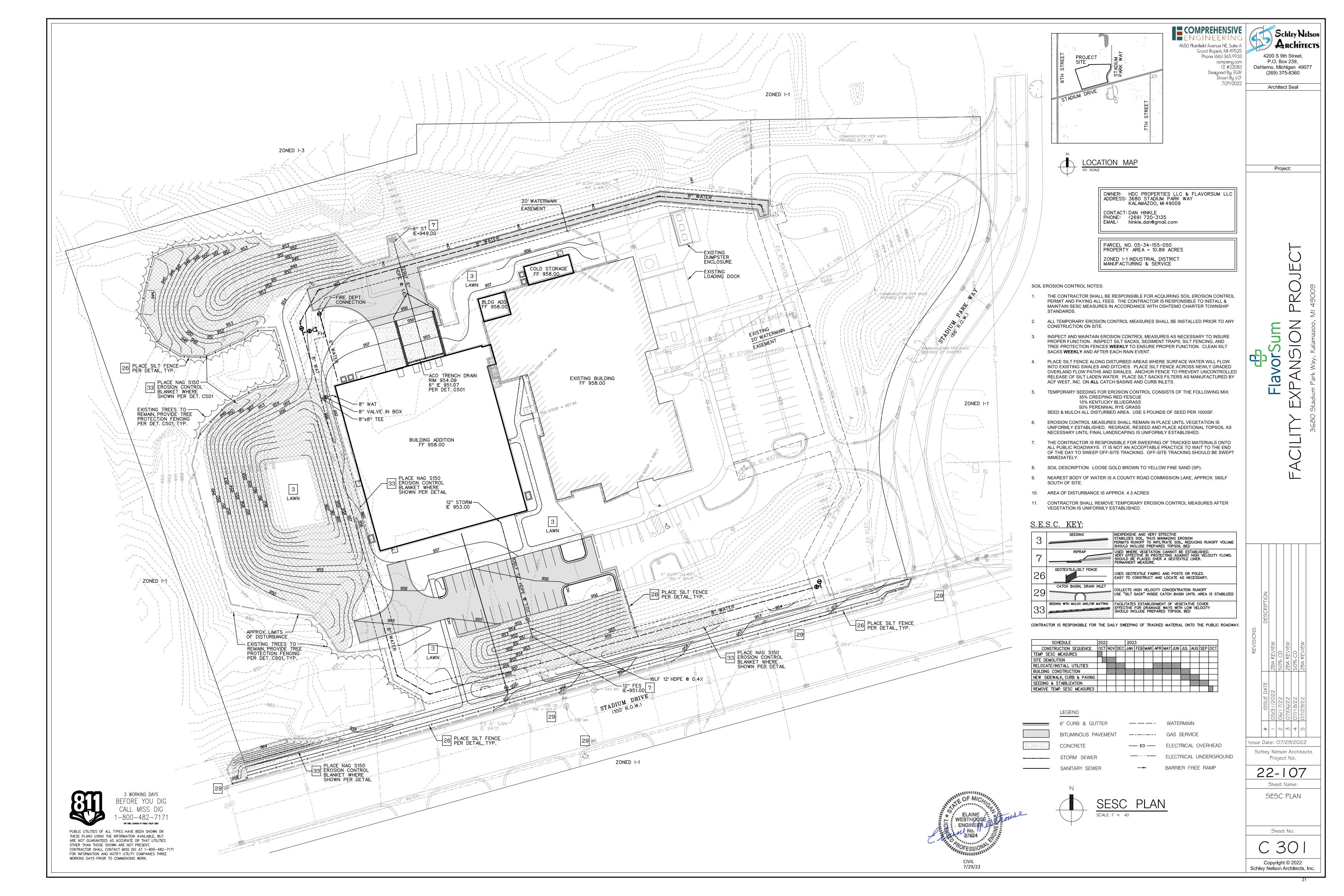
Elaine Westhouse, P.E. Senior Civil Engineer

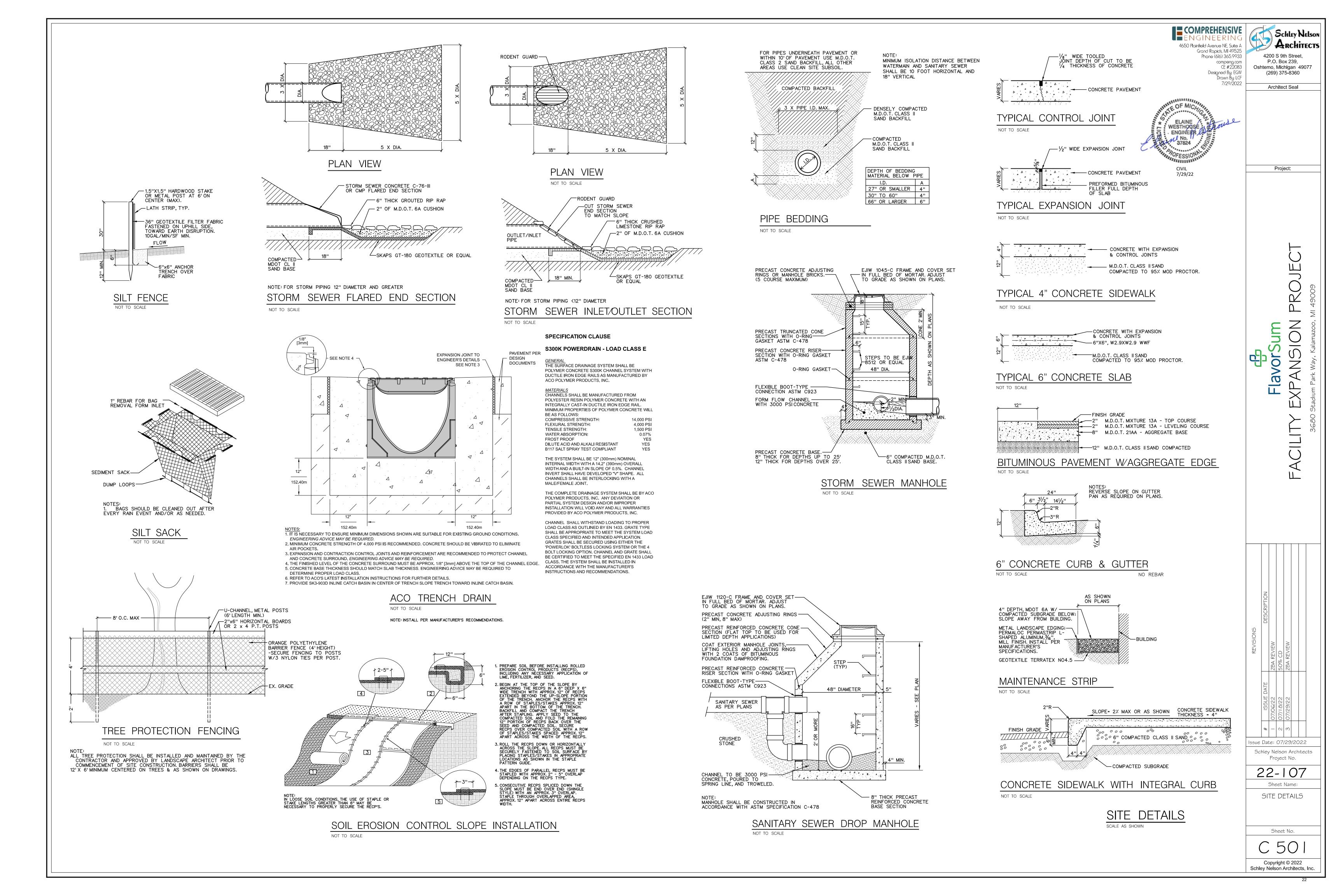
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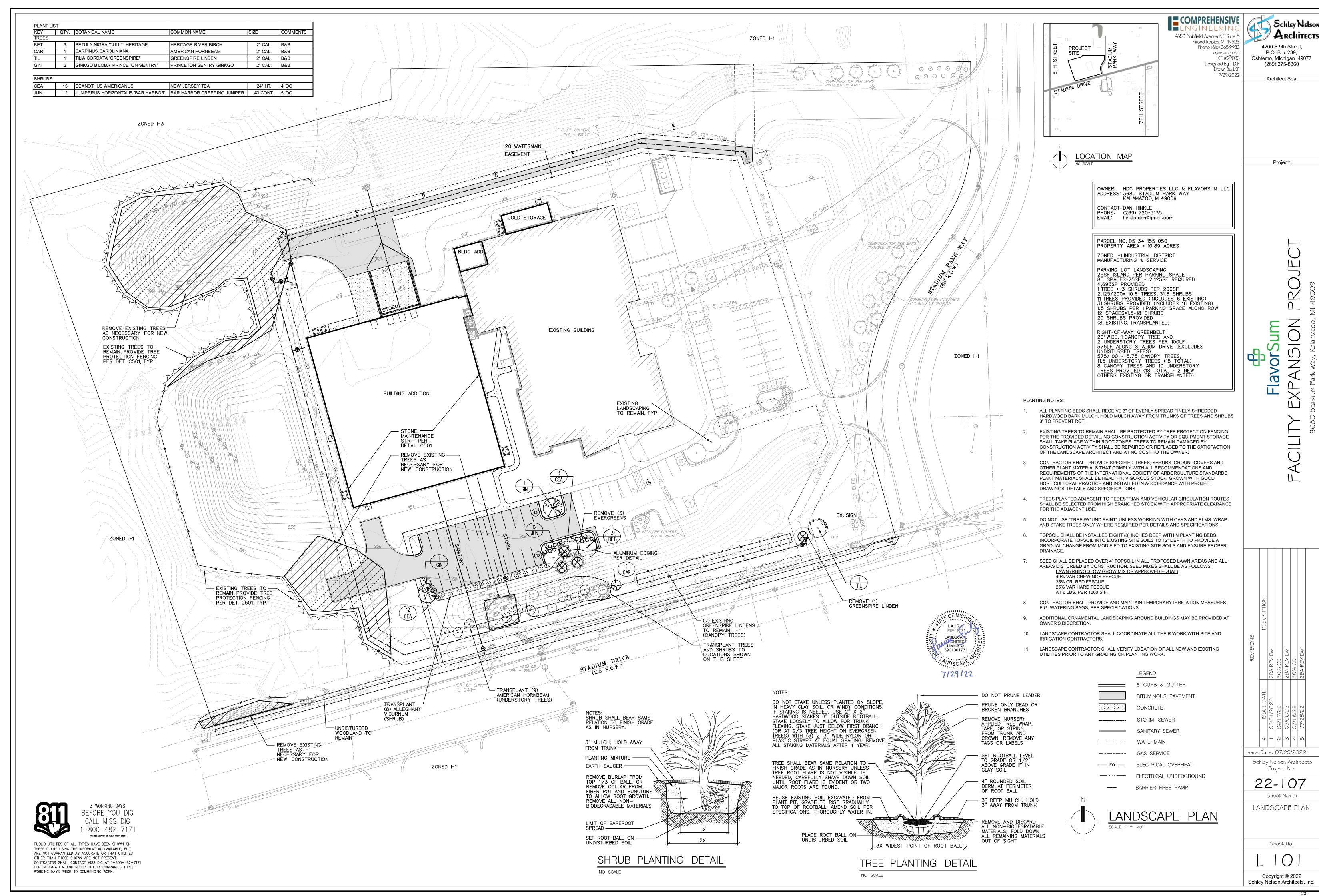


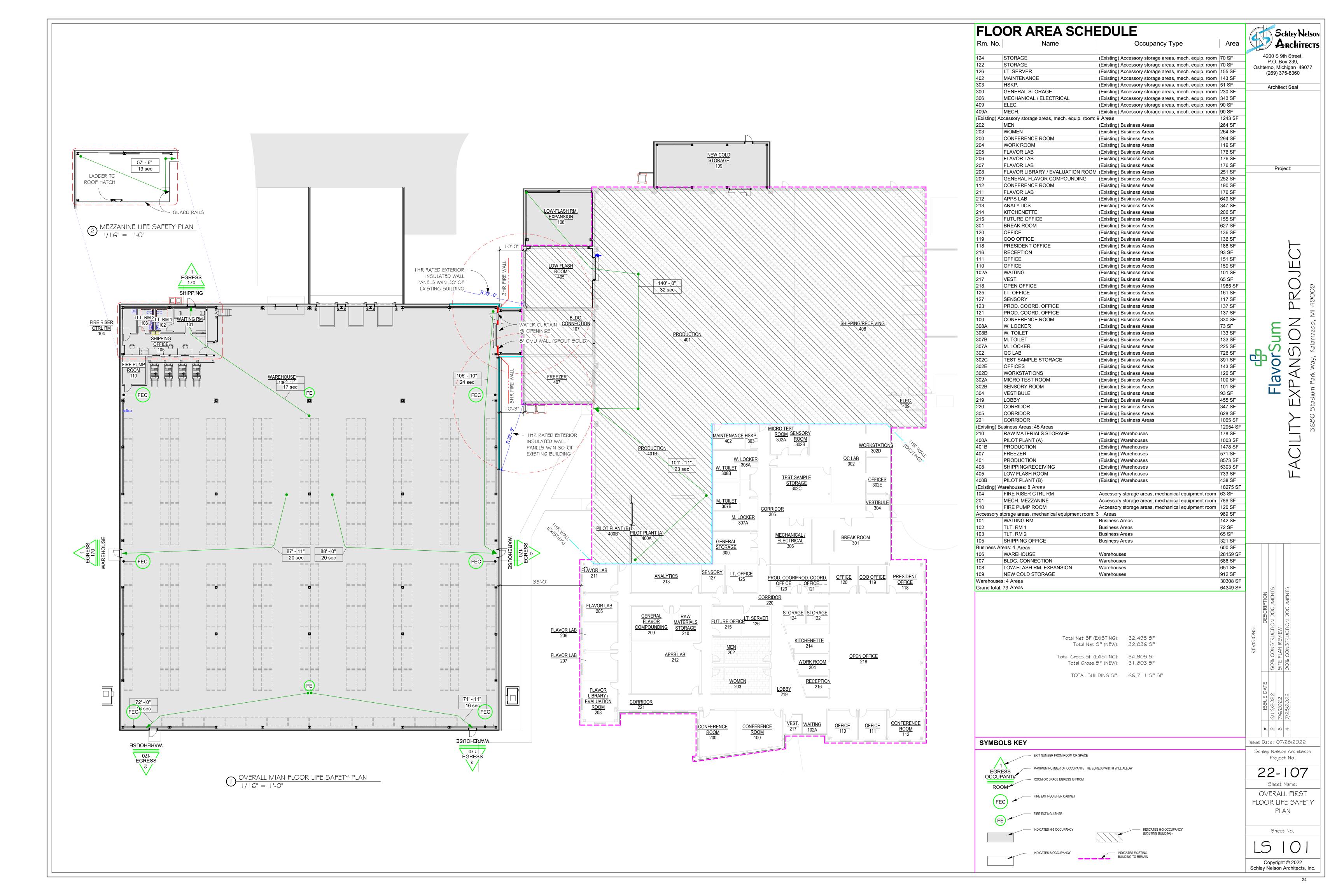
**A**rchitects

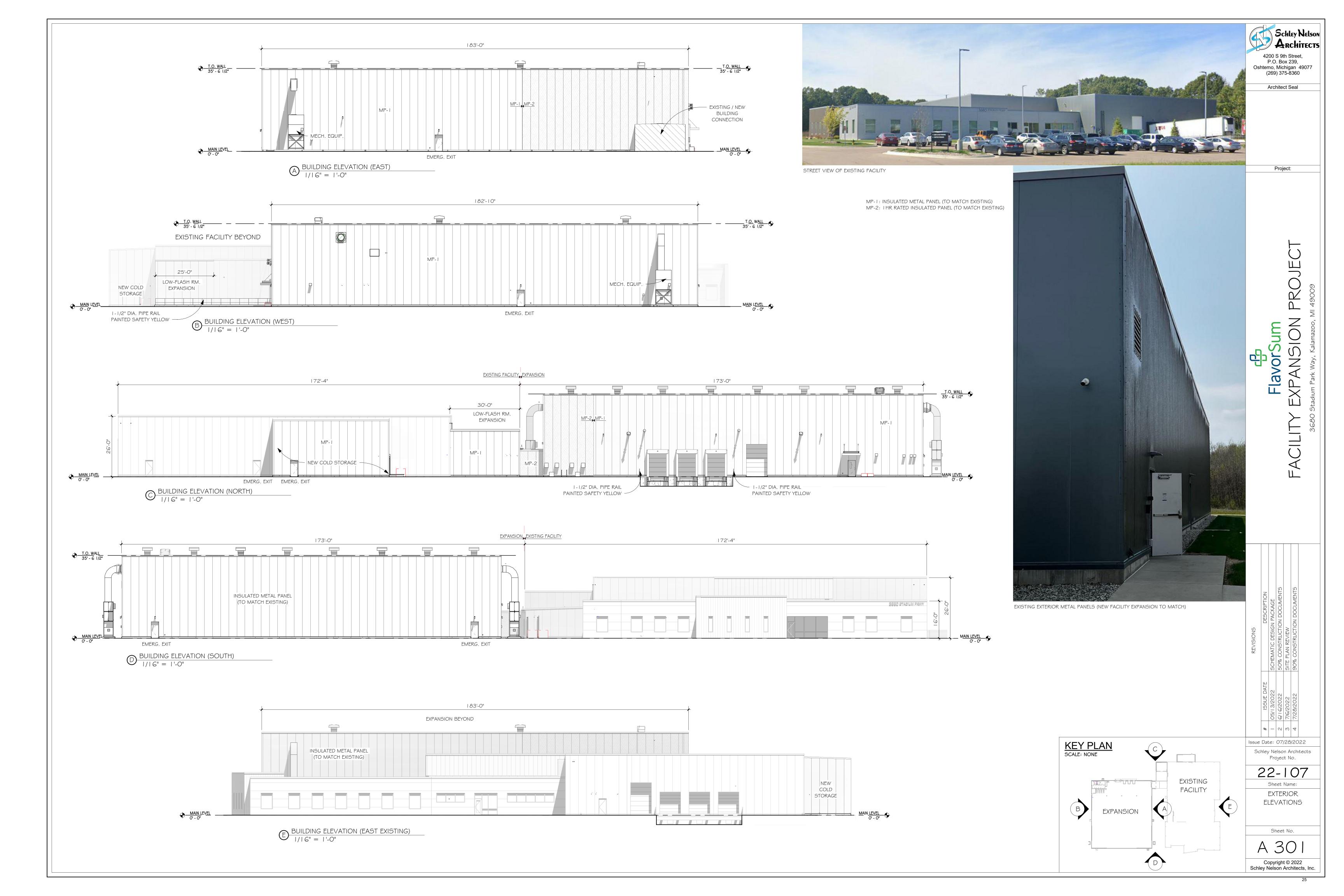


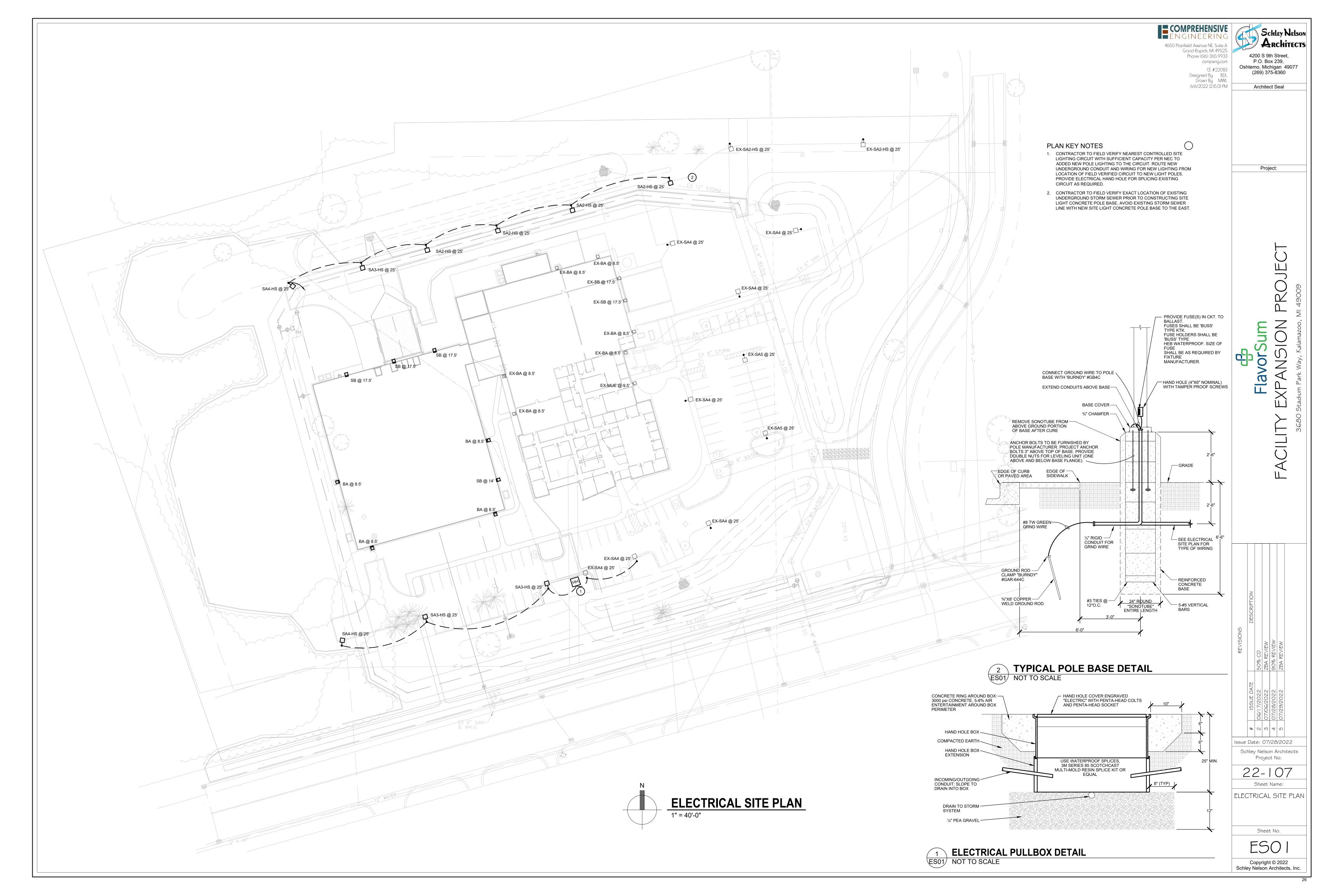


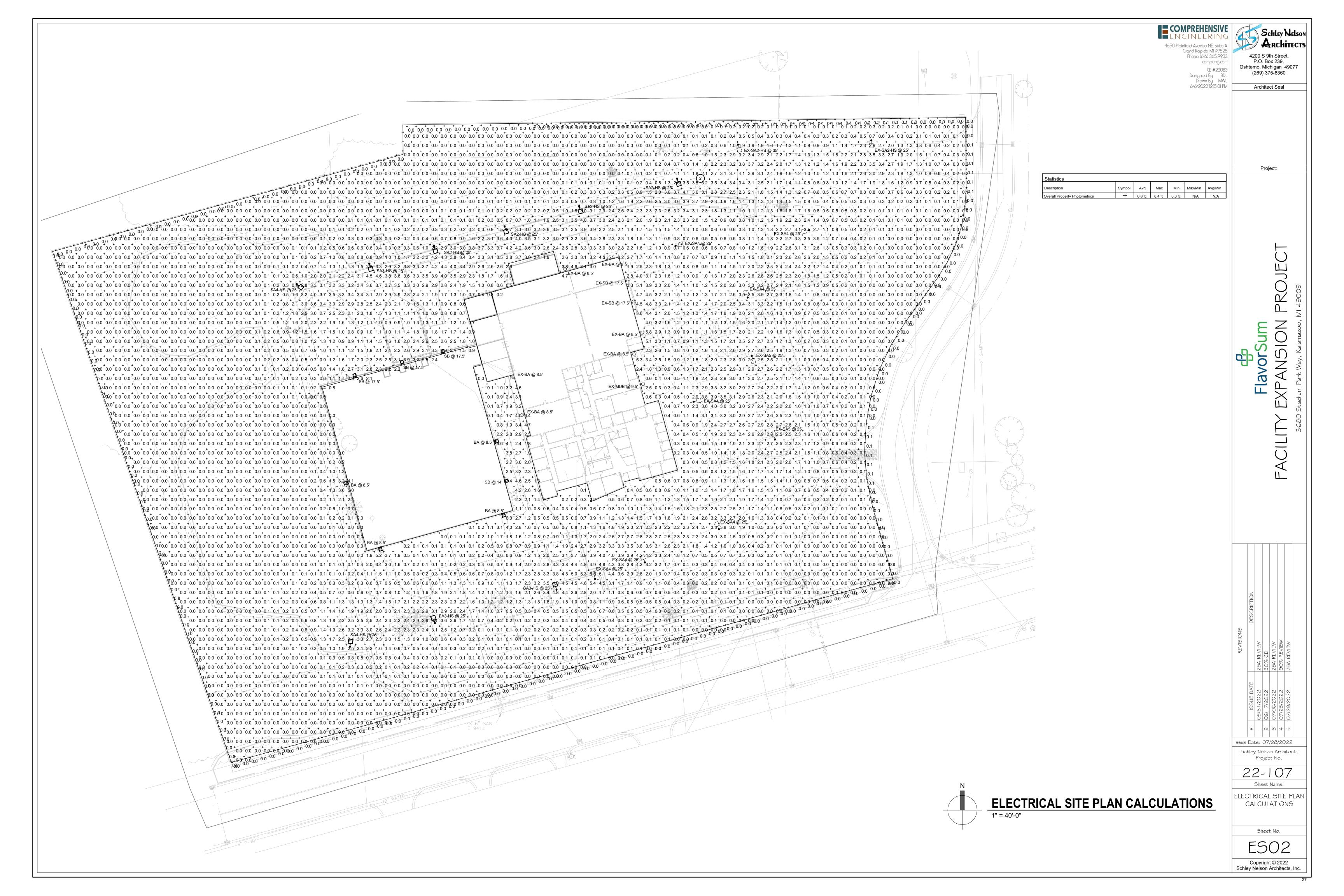






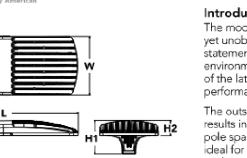
















Weight (max):

yet unobtrusive - making a bold, progressive
statement even as it blends seamlessly with its
environment. The D-Series distills the benefits
of the latest in LED technology into a high
performance, high efficacy, long-life luminaire.
The outstanding photometric performance
results in sites with excellent uniformity, greater
pole spacing and lower power density. It is

ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

R90 Right rotated optics 2

Shipped separately BS Bird spikes 24 EGS External glare shield

HA 50°C ambient operations 1

BAA Buy America(n) Act Compliant

Orderi	ng Information		ı	EXAMPLE	: DSX1 LED P	7 40K	T3M N	IVOLT SPA NLT	AIR2 P	IRHN DDBX
DSX1 LED										
Series	LEDs	Color temperature	Distribution			Voltag		Mounting		
DSX1 LED	Forward optics P1 P4 P7 P7 P2 P5 P8 P3 P6 P9 Rotated optics P102 P122 P112 P13 V2	30K 3000 K 40K 4000 K 50K 5000 K	T1S Typel sh (Automo T2S Typell'sh T2M Typell' n T3S Typell'sh T3M Typell'n T4M Typel'n TFTM Forward medium	rive) TSS ort TSM edium TSW nort BLC nedium LCCO nedium RCCO	Type V very short <sup>1</sup> Type V short <sup>3</sup> Type V short <sup>3</sup> Type V wide <sup>1</sup> Backlight control <sup>4</sup> Left corner cutoff <sup>4</sup> Right corner cutoff <sup>4</sup>	MV0L1 XV0LT (277V- 120° 208° 240° 277° 347° 480°		RPA Bound; WBA Wall be SPUMBA Square RPUMBA Bound; Shipped separately KMA8 DDBXD U Mast ar	pole universal pole universal	
Control optic							Other optic	ons	Finish (co)	
PIRHN N PER N	ailled Light AIR generation 2 enabled <sup>13</sup> etwork, high/low motion/ambient EMA twist-lock receptade only (o re-pin receptade only (controls o	ontrols ordered separate) To	PIRH Hi ar PIR1FC3V Hi	i bient sensor enabled gh/low, motion/ambi r bient sensor enabled	entsensor, 15–30/mounting t at 56c <sup>2027</sup> entsensor, 8–15/mounting ha	neight,	SF Sing DF Dou	nstalled ise-side shield <sup>22</sup> gle fuse (120, 277, 347V) <sup>3</sup> ide fuse (208, 240, 480V) <sup>3</sup> rotated optics <sup>3</sup>	DDBXD DBLXD DNAXD DWHXD DDBTXD	Dark bronze Black Natural aluminum White Textured dark bronze

LITHONIA LIGHTING

COMMERCIAL OUTDOOR

DMG 0-10v dimming wires pulled outside fixture (for use with an

external control, ordered separately) 17

DS Dual switching 10,19,28

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

ambient sensor enabled at 1fc 2

FAO Field adjustable output <sup>20,21</sup>

Rev. 07/19/21 Page 1 of 8

DNATXD Textured natural aluminum

DWHGXD Textured white

### MOONLITE LED® Series MUE

### **Mullion Mount Outdoor Emergency Egress Lighting**

OVERVIEW

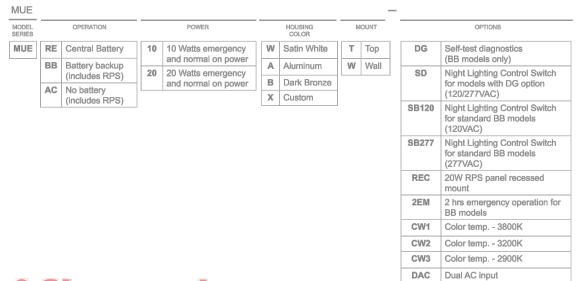
Linear LED outdoor egress with both emergency lighting and night lighting function. The MUE series is designed to mount directly on mullion frames used in typical glass panel entrance structures, with vertical mounting surface as small as 2". High efficiency LEDs and full 90° cut-off provide uniform emergency and night lighting on the extended egress pathway. All models are outdoor rated, UL wet location, ADA compliant, and exceed requirements of UL Standard 924 and NFPA 101. Designed and manufactured in the USA, complies with ARRA (American Recovery and Reinvestment Act) and Buy American requirements.

PER7 Seven-pin receptacle only (controls ordered separate) \$3.6 PIRH1FG3V Bi-level, motion/ambient sensor, 15-30 mounting height,

### SPECIAL FEATURES

- Very low profile extruded aluminum housing and mount bracket blend seamlessly with structural metal frames
- Remote power supply for 10W and 20W BB and AC model single fixtures, or Central Battery System power for RE model multiple fixtures.
- Option for 20 watt models to operate for 2 hours in emergency mode · Options for mount bracket height, from 2" to 5"
- Standard finishes include Brushed Aluminum, Satin White, Bronze or Black. Custom colors available on request
- Custom satin finishes for extended outdoor use are available to match any surface IP66 housing seals against heavy water spray and fine dust
- Universal side or top mount Wide lighting distribution designed for entrance walkways
- 10W or 20W emergency power models Optional normal-on switch allows timed control of night lighting
- Self-Test Diagnostics is standard for central battery models and optional for integral
- Certified IP66 housing withstands multi direction water spray and fine dust ingress Wall mount version available (see Series MAE)
- Standard CRI 5000K, with optional color corrections filters for 2900K, 3200K and 3800K. Code compliant emergency lighting layouts provided

### FIXTURE ORDERING INFORMATION EXAMPLE: MUEBB10AW-DG



2HT 2" Mount Bracket height

5HT 5" Mount Bracket height





Specifications

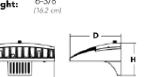






Introduction

Back Box (BBW, E20WC)





The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical

and control options for customized performance. With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Order	ing Inform	ation		EXAM	PLE: D	SXW1 LED 20	C 1000 40	K T3M MVOLT DDBTXI
DSXW1 LED								
	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options	
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines) 1	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) <sup>1</sup>	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phasphar converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT <sup>2</sup> 120 <sup>3</sup> 208 <sup>1</sup> 240 <sup>2</sup> 277 <sup>3</sup> 347 <sup>34</sup> 480 <sup>1,4</sup>	Shipped included (blank) Surface mounting bracket BBW Surface- mounted back box (for conduit entry) <sup>3</sup>	DMG 0-11 use: PIR 180' PIRH 180' PIRHTFG3V Mot amb PIRHTFG3V Mot amb E20WC Eme	ed  to electric cell, button type <sup>6</sup> by dimming wires pulled outside fixture (for with an external control, ordered separately)  "motion/ambient light sensor, <15° mtg ht. <sup>12</sup> "motion/ambient sensor, 8-15° mounting helgint, bient sensor enabled at life."  pion/ambient sensor, 8-15° mounting helgint, bient sensor enabled at life. <sup>12</sup> pion/ambient sensor, 15-30′ mounting helgint, bient sensor enabled at life. <sup>12</sup> regency battery backup (includes external ponent enclosure), CA l'ide 20′ compliant <sup>13</sup>
Other Option								
DF Dou	s <b>talled</b> Jle fuse (120, 277 or 347 Idle fuse (208, 240 or 48 se-side shield <sup>11</sup> arate surge protection <sup>12</sup>	OV) 330 VG Vandal	eterrent spikes DBLXI	D Black D Natural aluminum	DSSXID DDGTXD DBLBXID DNATXID	Sandstone Textured dark bronze Textured black Textured natural alumin	DWHGX DSSTXD	
	cessories and shipped separately. House-sideshield (one per light engine) Bind-deterrent spikes Vandal wurd accessor	2 MVOLT drive 3 Single fuse (: 4 Only availabl 5 Back box shi 6 Photocontro	er operates on any line vol 6F) requires 120, 277 or 34 ie with 20C, 700mA or 100 ps installed on fixture. Car	H, PIRTFC3V or PIRHTFC3V. tage from 120-277V (50/50 Hz) 17 voltage option. Double fuse 10mA. Not available with PIR or not be field installed. Cannot I 40, 277 or 347 voltage option.	(DF) requires r PIRH. be ordered as	an accessory.	•	нј.



11 Also available as a separate accessory; see Accessories information.
12 Not available with E20WC. One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

D-Series Size 2 Catalog Number

LED Wall Luminaire

Back Box (BBW)

Reference Motion Sensor table on page 3.

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DSXW1-LED



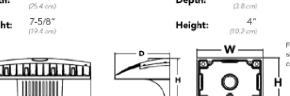




A+ Capable options indicated by this color background.

Shipped installed

COMMERCIAL OUTDOOR



### 1 lbs • All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL

8 Same as old ELCW. Cold weather (20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at available with 547 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at available with E20WC.
Not available with E20WC.

equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability1 This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and

This item is an A+ capable luminaire, which has been

designed and tested to provide consistent color

appearance and system-level interoperability.

### control options marked by a shaded background<sup>1</sup> To learn more about A+,

Capable Luminaire

visit <u>www.acuitybrands.com/aplus</u>. See ordering tree for details.

2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

DWHGXD Textured white

DSSTXD Textured sandstone

Orderin	ıg Ini	forma	tion				EXAMPLE: DSXW2 LED 30C 700 40K T3M MVOLT DDBT							
DSXW2 LED														
Series	LEDs		Drive C		Color tem	perature	Distribu		Voltage	Mountin		Control Opt	ions	
DSXW2 LED	30C	20 LEDs (two engines) 30 LEDs (three engines)	350 530 700 1000	350 mA 530 mA 700 mA 1000 mA <sup>1</sup> (1 A)	30K 40K 50K AMBPC	3000 K 4000 K 5000 K Amber phosphor converted?	T2S T2M T3S T3M T4M TFTM	Type II Short Type II Medium Type II Short Type II Medium Type II Medium Type IV Medium Type IV Medium Forward Throw Medium	MVOLT 3 120 4 208 4 240 4 277 4 347 4-3 480 4.5	(blank)	d included Surface mounting bracket  d separately <sup>6</sup> Surface- mounted back box (for conduit entry)	Shipped in PE PER PERS PER7 DWG PIR PIRH PIRHFC3V	Intelled  Photoelectric cell, button type <sup>1</sup> MEMA twist-lock receptacle only (control ordered separate) <sup>14</sup> Five-wire receptacle only (control ordered separate) <sup>14</sup> Seven-wire receptacle only (control ordered separate) <sup>15</sup> 0-10x dimming wires pulled outside fixture [for use with an external control, ordered separately) 180 motion/ambient light sensot, <15° mtg ht <sup>10,11</sup> 180° motion/ambient light sensot, 15-80° mtg ht <sup>10,11</sup> Motion/ambient sensor, 8-15° mounting height, ambient sensor enabled at 16c <sup>11,12</sup> Motion/ambient sensor enabled at 16c <sup>11,12</sup>	

HS SPD	House–side shield <sup>4</sup> Separate surge protection <sup>11</sup>	DWHXD White
	LITHONIA LIGHTING	One Lithonia Way • Conyers, Georgia 30012 • Phone: 1- © 2012-2022 Acuity Brands Lighting, Inc. All rights reserved.

Shipped separately 13

SF Single fuse (120, 277, 347V) <sup>3</sup> BSW Bird-deterrent spikes

DF Double fuse (208, 240, 480V) <sup>1</sup> VG Yandal guard

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DSSXD Sandstone

DBLBXD Textured black

DDBTXD Textured dark bronze

DNATXD Textured natural aluminum

DDBXD Dank bronze

DNAXD Natural aluminum

DBLXD Black





Oshtemo, Michigan 49077

(269) 375-8360

Architect Seal

Project:

avorSum ANSION

**ACILI** 

compeng.con

Designed By: BDL Drawn By: MWL

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CE #22083

P.O. Box 239,

Issue Date: 07/28/2022 Schley Nelson Architects

Project No. 22-107

Sheet Name: ELECTRICAL SITE PLAN CALCULATIONS

Sheet No.

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ARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	APPROVED EQUALS	LAMP	MOUNTING	COMMENTS
DA	LOADING DOCK LIGHT	PHOENIX	DLAW2-12LED-SP-60	BY APPROVAL ONLY	1200LM 4000K 80CRI 9W	WALL MT @ 7'-0" AFF	
НА	NORMAL HIGH-BAY LIGHT FIXTURE	LITHONIA	XIB-L24-24000LM-FRGL-MVOLT- GZ10-50K-80CRI-SBGR6-DNAXD	HUBBELL	24000LM 5000K 80CRI 155W	STEM @ 30'-0" AFF U.N.O	INTEGRAL MOTION SENSOR CONTROL
-12	EMERGENCY HIGH-BAY LIGHT FIXTURE CLASS I, DIVISION II RATED	SOLAS RAY	HH22-175-50-EX-U-GR-UB	HUBBELL	21150LM 5000K 80CRI 175W	STEM @ 30'-0" AFF U.N.O	
IA	INDUSTRIAL STRIP FIXTURE	LITHONIA	CLX LED LINEAR-L48-3000LM-FDL MVOLT-40K-80CRI-WH-HC36M12	COLUMBIA COOPER	3000LM 4000K 80CRI 20.3W	CHAIN @ 8'-0" AFF	
RA	2x4 LED FLAT PANEL	LITHONIA	CPANL-2X4-AL06-SWW7-M2	COLUMBIA COOPER	4000LM 4000K 80CRI 36W	RECESSED	
(A	EMERGENCY EXIT SIGN	LITHONIA	EXRG-EL-M6	COMPASS	N/A N/A N/A 1W		*FACES AND ARROWS PER PLAN
KK I	EMERGENCY EXIT SIGN CLASS I, DIVISION II RATED	SOLAS RAY	HLWLEZU-*-R-G-EM-SDT	HUBBELL COOPER	N/A N/A N/A 3W		*FACES AND ARROWS PER PLAN
N	OTES:	·					

MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MOUNTING	MOUNTING MODEL NUMBER	APPROVED EQUALS	LAMP	COMMENTS
EX-BA	BUILDING MOUNT EGRESS DOOR WALL PACK	LITHONIA	DSXW1-LED-20C-530-40K- T3M-MVOLT-PE-DDBXD	WALL MT @ 8'-6"		HUBBELL COOPER	4288LM 4000K 70 CRI 35W	INTEGRAL PHOTOCELL DUSK-TO DAWN CONTROL
EX-MUE	MULLION MOUNT EGRESS DOOR FIXTURE	SIGNTEX	MUE-AC-10-A-W	MULLION MT @ 9'-6"		BY APPROVAL ONLY	494LM 5000K 70CRI 10W	
EX-SA2- HS	POLE MOUNT TYPE II LIGHT FIXTURE	LITHONIA	DSX1-LED-P6-40K-T2M- MVOLT-RPA-PIRH1FC3V-HS- DDBXD	POLE MT @ 25'-0"	RTA-25'-6E-DM19-DDBXD	HUBBELL COOPER	19096LM 4000K 70 CRI 163W	INTEGRAL PHOTOCELL DUSK-TO DAWN CONTROL AND MOTION SENSOR FOR OCCUPANCY- BASED AUTOMATIC DIMMING
EX-SA4	POLE MOUNT TYPE IV LIGHT FIXTURE	LITHONIA	DSX1-LED-P6-40K-T4M- MVOLT-RPA-PIRH1FC3V- DDBXD	POLE MT @ 25'-0"	RTA-25'-6E-DM19-DDBXD	HUBBELL COOPER	18635LM 4000K 70 CRI 163W	INTEGRAL PHOTOCELL DUSK-TO DAWN CONTROL AND MOTION SENSOR FOR OCCUPANCY- BASED AUTOMATIC DIMMING
EX-SA5	POLE MOUNT TYPE V LIGHT FIXTURE	LITHONIA	DSX1-LED-P8-40K-T5M- MVOLT-RPA-PIRH1FC3V- DDBXD	POLE MT @ 25'-0"	RTA-25'-6E-DM19-DDBXD	HUBBELL COOPER	20000LM 4000K 70 CRI 207W	INTEGRAL PHOTOCELL DUSK-TO DAWN CONTROL AND MOTION SENSOR FOR OCCUPANCY- BASED AUTOMATIC DIMMING
EX-SB	BUILDING MOUNT AREA LIGHT WALL PACK	LITHONIA	DSXW2-LED-30C-700-40K- TFTM-MVOLT-PIRH1FC3V- DDBXD	WALL MT @ 17'-6"		HUBBELL COOPER	8082LM 4000K 70CRI 71W	INTEGRAL PHOTOCELL DUSK-TO
ВА	BUILDING MOUNT EGRESS DOOR WALL PACK	LITHONIA	DSXW1-LED-20C-530-40K- T3M-MVOLT-PE-DDBXD	WALL MT @ 8'-6"		HUBBELL COOPER	4150LM 4000K 70 CRI 35W	INTEGRAL PHOTOCELL DUSK-TO DAWN CONTROL
SB	BUILDING MOUNT AREA LIGHT WALL PACK	LITHONIA	DSXW2-LED-30C-700-40K- TFTM-MVOLT-PIRH1FC3V- DDBXD	WALL MT @ 17'-6"		HUBBELL COOPER	8000LM 4000K 70CRI 71W	INTEGRAL PHOTOCELL DUSK-TO DAWN CONTROL AND MOTION SENSOR FOR OCCUPANCY- BASED AUTOMATIC DIMMING
SA2-HS	POLE MOUNT TYPE II LIGHT FIXTURE	LITHONIA	DSX1-LED-P6-40K-T2M- MVOLT-RPA-PIRH1FC3V-HS	POLE MT @ 25'-0"	RTA-25'-6E-DM19-DDBXD	HUBBELL COOPER	19096LM 4000K 70 CRI 163W	INTEGRAL PHOTOCELL DUSK-TO DAWN CONTROL AND MOTION SENSOR FOR OCCUPANCY- BASED AUTOMATIC DIMMING.
SA3-HS	POLE MOUNT TYPE III LIGHT FIXTURE	LITHONIA	DSX1-LED-P6-40K-T3M- MVOLT-RPA-PIRH1FC3V-HS	POLE MT @ 25'-0"	RTA-25'-6E-DM19-DDBXD	HUBBELL COOPER	19049LM 4000K 70 CRI 163W	INTEGRAL PHOTOCELL DUSK-TO DAWN CONTROL AND MOTION SENSOR FOR OCCUPANCY- BASED AUTOMATIC DIMMING.
SA4-HS	POLE MOUNT TYPE IV LIGHT FIXTURE	LITHONIA	DSX1-LED-P6-40K-T4M- MVOLT-RPA-PIRH1FC3V-HS	POLE MT @ 25'-0"	RTA-25'-6E-DM19-DDBXD	HUBBELL COOPER	18635LM 4000K 70 CRI 163W	INTEGRAL PHOTOCELL DUSK-TO DAWN CONTROL AND MOTION SENSOR FOR OCCUPANCY- BASED AUTOMATIC DIMMING.

MARK	EQUIPMENT	DESCRIPTION	DETAIL	COMMENTS
Â	MANUAL SWITCH	MANUAL ON/MANUAL OFF	N/A	MANUAL CONTROL ONLY FOR SAFETY, ROOM CONTAINS
$\checkmark$	IVIANUALSWITCH	IVIANUAL ON IVIANUAL OFF	IN/A	ELECTRICAL AND MECHANICAL EQUIPMENT
B	WALL BOX SENSOR SWITCH	MANUAL ON/AUTO OFF	1/E601	
$\stackrel{\bullet}{\wedge}$	POWER PACKS W/	MANUAL ON/AUTO OFF, 0-10VDC	<b></b>	MANUAL ON AND DIMMING VIA SWITCHES, AUTO OFF VIA
⟨c⟩	DIMMING	DIMMING	2/E601	SENSORS
	TIMECLOCK	AUTO ON/OFF	N/A	AUTO ON/OFF VIA MECHANICAL TIMECLOCK SCHEDULE
E	INTEGRAL MOTION SENSOR	AUTO ON/OFF	N/A	AUTO ON/OFF VIA INTEGRAL MOTION SENSOR

**ELECTRICAL SYMBOL LEGEND** 

LIGHT FIXTURES

CEILING SURFACE MOUNT

₩ WALL SURFACE MOUNT

RECESSED WALLWASH

SURFACE MOUNT FIXTURE

POLE LIGHT- DECORATIVE

UNDERCABINET LIGHT

RECESSED WALLMOUNT

EXIT LIGHT- WALL

**SWITCHES** 

EXIT LIGHT- CEILING

FIXTURE TYPE

\$ SPST, 20A, 120/277V

\$<sub>D</sub> DIMMER SWITCH

\$<sub>F</sub> FUSED SWITCH

\$1B LOW VOLTAGE SWITCH, 1-BUTTON (ON/OFF)

OCCUPANCY SENSOR POWER PACK

OCCUPANCY SENSOR

PO PHOTOCELL

PS PARTITION SENSOR

NIGHT LIGHT OR EM FIXTURE

BATTERY OPERATED EMERG. LIGHT

WALL SURFACEMOUNT LINEAR TYPE

(ARROW INDICATES DIRECTION,

# INDICATES NUMBER OF SCENES

OVERLOAD FOR FRAC. HP MOTORS

DT) DUAL-TECHNOLOGY OCCUPANCY SENSOR (CEILING MOUNTED)

PIR LINE-VOLTAGE INFRARED OCCUPANCY SENSOR (CEILING MOUNTED)

\$M MANUAL MOTOR STARTER W/THERMAL

\$3B LOW VOLTAGE SWITCH, 3-BUTTON (ON/OFF, RAISE, LOWER)

(IR) INFRARED OCCUPANCY SENSOR (CEILING MOUNTED)

US ULTRASONIC OCCUPANCY SENSOR (CEILING MOUNTED)

\$V VACANCY SENSOR (WALL SWITCH SENSOR, DUAL TECHNOLOGY), WALL MOUNT @ 48" A.F.F.

\$VD VACANCY SENSOR WALL SWITCH, DUAL-TECH W/ 0-10VDC DIMMING, WALL MOUNT @ 48" AFF

SHADING INDICATES FACES)

A LETTER ADJACENT INDICATES

RECESSED FIXTURE

O DIRECTIONAL FLOOD

■☐ POLE LIGHT

-O- PENDANT MOUNT

POWER/COMM. SPECIAL RECEPTACLE AS NOTED DUPLEX RECEPT. 20A, 125V, MOUNT 18" A.F.F. \$\displaysquare \$\displaysquare\$\$ combination switch and receptacle, mount 48" A.F.F. DOUBLE DUPLEX RECEPT. 20A, 125V, MOUNT 18" A.F.F. DOUBLE GANG PLATE ELECTRIC WATER COOLER RECEPT. 20A. 125V. COORDINATE MOUNTING HEIGHT WITH EWC COUNTERTOP DUPLEX RECEPTACLE 20A, 125V U.O.N. COUNTERTOP DOUBLE DUPLEX RECEPTACLE 20A, 125V U.O.N. ISOLATED GROUND RECEPTACLE 20A, 125V, MOUNT AT 18" A.F.F.,U.N.O. P H PEDESTAL DUPLEX RECEPTACLE 20A. 125V SPLIT WIRED DUPLEX RECEPTACLE 20A, 125V, MOUNT AT 18" A.F.F.,U.N.O. TAMPER RESISTANT RECEPTACLE 20A, 125V, MOUNT AT 18" A.F.F.,U.N.O. 20A DUPLEX RECEPTACLE W/USB PORTS, 3.6A USB PORTS DUPLEX FLOOR RECEPTACLE 20A, 125V, FLUSH IN FLOOR COMBINATION DUPLEX FLOOR RECEPTACLE & TELE./DATA OUTLET, FLUSH IN FLOOR, ROUTE 1"C. TO ACCESSIBLE CEILING SPACE FOR TELE. FLOORBOX WITH FURNITURE WHIPS FOR POWER AND DATA. FLUSH IN FLOOR, ROUTE 1"C. TO ACCESSIBLE CEILING SPACE FOR TELE. SEE PLANS OR SPECS FOR DETAILS DUPLEX RECEPTACLE MOUNTED FLUSH IN CEILING FACING DOWN  $\sigma(J)$  CEILING MOUNT RETRACTABLE CORD REEL (RECEPT TYPE AS SHOWN ON PLAN) RIGID MOUNT TO STRUCTURE VIAUNISTRUT. RETRACTED RECEPT HEIGHT = 6'-6" AFF POWER POLE SPECIAL CONNECTION AS NOTED TELEPHONE/DATA OUTLET \$L LOW VOLTAGE SWITCH (SINGLE ON/OFF/DIM) (MOUNT AT 18" A F F PROVIDE 4-SQUARE BOX WITH \$1# LOW VOLTAGE ON/OFF/DIM SCENE SWITCH, SINGLE-GANG MUD RING AND 11/4"C INTO ACCESSIBLE CEILING SPACE, U.N.O.) ▼\* MOUNTED ABOVE COUNTER (MOUNT ABOVE COUNTERTOP, PROVIDE 4-SQUARE BOX WITH SINGLE-GANG MUD RING AND 11/4"C INTO ACCESSIBLE CEILING SPACE, U.N.O.) TELEPHONE/DATA OUTLET MOUNTED FLUSH IN CEILING FACING DOWN

✓ SINGLE PHASE MOTOR

THREE PHASE MOTOR

PUSH BUTTON STATION AS NOTED

(480/277V) OR (480V)

(240/120V OR 208/120V)

NEW PANELBOARD

(240/120V OR 208/120V)

T DRY TYPE TRANSFORMER

MAGNETIC STARTER

(480/277V)OR (480V)

EXISTING PANELBOARD SEE ONE-LINE DIAGRAM

EXISTING PANELBOARD SEE ONE-LINE DIAGRAM

NEW PANELBOARD SEE ONE-LINE DIAGRAM

CONTACTOR, MOUNT AT 5'-0" A.F.F., U.N.O.

NON-FUSIBLE DISCONNECT SWITCH

FUSIBLE DISCONNECT SWITCH

COMBINATION STARTER-DISCONNECT

SEE ONE-LINE DIAGRAM

THERMOSTAT

FIRE ALARM FAAP WALL MOUNTED FIRE ALARM ANNUNCIATOR PANEL, MOUNT AT 56" TO CENTER OF BOX WALL MOUNTED FIRE ALARM NOTIFICATION MICROPHONE INPUT APPLIANCE CIRCUIT PANEL. MOUNT AT 56" TO CENTER OF BOX. 120V POWER REQ'D. **AUXILIARY INPUT** WALL MOUNTED SEMI-FLUSH MAIN CONTROL HEADSET OUTLET PANEL, MOUNT AT 56" TO CENTER OF BOX. VOLUME CONTROL 120V POWER REQ'D. INDIVIDUAL ADDRESSABLE MODULE (IAM) VANDAL-RESISTANT DUCT SMOKE DETECTOR SEMI-FLUSH CEILING MOUNTED PHOTOELECTRIC SMOKE DETECTOR MANUAL PULL STATION, MOUNT AT 48" A.F.F. TO CENTER OF BOX (FS) SPRINKLER VALVE FLOW SWITCH  $\widehat{\mathbb{H}}$ CEILING MOUNTED HEAT DETECTOR ONE-LINE DIAGRAM WALL MOUNTED FIRE ALARM HORN. MOUNT AT 6'-8" A.F.F. TO CENTER OF BOX WALL MOUNTED FIRE ALARM STROBE MOUNT AT 6'-8" A.F.F. TO CENTER OF BOX CEILING MOUNTED FIRE ALARM STROBE WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE, MOUNT AT 6'-8" ~<del>~</del>₩ A.F.F. TO CENTER OF BOX TRANSFER SWITCH <del>--((+</del>| ⊢ CEILING MOUNTED COMBINATION FIRE ALARM HORN/STROBE FIRE ALARM CONNECTION TO CAPACITOR SMOKE/FIRE DAMPER FIRE ALARM SPECIAL CONNECTION \_\_\_\_XXXA CIRCUIT BREAKER —□□- FUSED SWITCH CONDUIT/WIRE GROUND CONNECTION ---- NEW --- UNDERGROUND NEW POWER HOMERUN □Z<sub>ZPX/Y</sub> ---- EXISTING TO REMAIN MAGNETIC STARTER ───── WIRE LINE- CONTINUES  $\boxtimes_{N/Y}$ —G VERTICAL CONDUIT RUN TRANSFORMER — · · — LOW VOLTAGE ———— INDICATES LINE CONTINUES XXXX:X CORD W/PLUG XXX:XXX

NOTE: INTERPRET IN CONTEXT 4650 Plainfield Avenue NE, Suite A Grand Rapids, MI 49525 SOUND Phone (616) 365.9933 SPEAKER- CLG FLUSHMOUNT compeng.com SPEAKER- WALLMOUNT, MOUNT AT 7'-0" A.F.F., U.N.O. CE #22083 Designed By: BDL Drawn By: MWL 6/6/2022 12:15:01 PM SPEAKER- CLG FLUSHMOUNT SYMBOL LEGEND NOTES: CLOCK/SPEAKER WALLMOUNT PROVIDE CONTINUOUS GREEN GROUND WIRE FROM RECEPTACLES TO PANEL. COMMON GROUND WIRE MAY BE USED FOR RECEPTACLES ON THE SAME (2) DO NOT USE BACK WIRE TERMINALS (SPRING CONNECTION) ON WIRING DEVICES. USE SIDE SCREW TERMINALS FOR CONDUCTOR CONNECTION. (3) VERIFY DEVICE AND/OR COVER PLATE COLOR WITH ARCHITECT. AUTOMATIC TRANSFER SWITCH BYPASS ISOLATION AUTOMATIC X=SW. SIZE, Z=NO. OF POLES. NON-FUSIBLE DISCONNECT SWITCH MT. AT 5'-0" A.F.F., U.N.O. X=SW. SIZE, Y=FUSE SIZE, Z=NO. OF FUSIBLE DISCONNECT SWITCH POLES, MT. AT 5'-0" A.F.F., U.N.O. N=STARTER SIZE, MT. AT 5'-O" A.F.F., COMBINATION STARTER-DISCONNECT N=STARTER SIZE, Y=FUSE, MT. AT 5'-O" A.F.F., U.N.O. CURRENT TRANSFORMER (RATIO INDICATED) POTENTIAL TRANSFORMER (RATIO INDICATED) UTILITY METER M **CUSTOMER METER** SPD SURGE PROTECTION DEVICE

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Architect Seal

Project:

**A**RCHITECTS

**ABBREVIATIONS** FS FUSIBLE SWITCH
FVNR FULL VOLTAGE NON-REVERSING OVERHEAD A, AMP AMPERE OVLD OVERLOAD POLE PUBLIC ADDRESS AMP BREAKER GROUNDING CONDUCTOR GENERAL CONTRACTOR ABOVE ALTERNATING CURRENT GARBAGE DISPOSAL PULL BOX AC-# GFCI,GFI GROUND FAULT CIRCUIT INTERRUPTER AIR CONDITIONER PHOTOCELL ADJACENT PLUMBING CONTRACTOR GFI GND GRS GROUND FAULT CIRCUIT INTERRUPTER AMP FUSE. AMP FRAME GROUND PH PNL POC PHASE ABOVE FINISH FLOOR GALVANIZED RIGID STEEL PANEL POINT OF CONNECTION ABOVE FINISH GRADE AFG HEIGHT. HIGH AMPERES INTERRUPTING CAPACITY RELOCATE(D) HEATING, AC & REFRIG HACR RÉCEPT RECEPTACLÉ ALUMINUM HIGH INTENSITY DISCHARGE AMP SWITCH RATING REQ'D REQUIRED HIGH OUTPUT AUTOMATIC TRANSFER SWITCH RLA RATED LOAD AMPS
RM ROOM
RMC RIGID METAL CONDUIT HAND-OFF-AUTO ATS AUDIBLE/AUDIO VISUAL HORSEPOWER AWG AMERICAN WIRE GAGE INTERCOM BELOW FINISH GRADE RMV REMOVE BFG IDENTIFICATION BASIC IMPULSE LEVEL RPLC REPLACE
RS RAPID STA
SCC SHORT CIR ISOLATED GROUND RAPID START BRFAKER JUNCTION BOX BLDG BUILDING KILOVOLTAMPS SHORT CIRCUIT CURRENT KVA SCCR SHORT CIRCUIT CURRENT RATING KILOWATT CONDUIT KW CATV CB CLG SFM STATE FIRE MARSHAL
SHT SHEET
SIM SIMILAR CABLE TELEVISION LIGHTING CONTACTOR CIRCUIT BREAKER, CODE BLUE LOCKED ROTOR AMPS CFII ING LIFE SAFETY BRANCH SPEC SPECIFICATION CENTER LINE LIGHT LIGHTING LT LTG SPEC SPECIFICATION

SPST SINGLE POLE SINGLE THROW

SQ SQUARE

SSTB SECURITY SYSTEM TELEPHONE BOARD CIRCUIT CONDUIT ONLY (W/PULLROPE) LOW VOLTAGE CONDUCTOR MECHANICAL CONTRACTOR COND CRITICAL BRANCH SURF SURFACE CR MINIMUM CKT AMPS śW SWITCH MCB MAIN CIRCUIT BREAKER CURRENT TRANSFORMER TERMINAL COPPER MECH MECHANICAL D DC TIME CLOCK DEPTH MFR MANUFACTURER TELEPHONE DIRECT CURRENT MAIN FUSIBLE SWITCH MFS DIA DISC DIST TELCO TELEPHONE COMPANY DIAMETER MLO MAIN LUGS ONLY MOCP MAXIMUM OVERCURRENT PROTECTION TIME SWITCH DISCONNECT TIME SWITCH OVERRIDE DISTRIBUTION MSB MAIN SWITCHBOARD DOUBLE POLE SINGLE THROW TWISTED SHIELDED PAIR MOUNT DW EM TRANSFORMER MT HT MOUNTING HEIGHT DISHWASHER **EMERGENCY** MTS MANUAL TRANSFER SWITCH TYPICAL UNDERCABINET, UNDERCOUNTER **EXISTING** MW MICROWAVE NEUTRAL (GROUNDED CONDUCTOR) UG UNDERGROUND
UGPS UNDERGROUND PULL SECTION EACH ELECTRICAL CONTRACTOR NEW NEMA 3R ELECTRICAL UNDERWRITERS LABORATORIES U.N.O. UNLESS NOTED OTHERWISE EMERG BATTERY BACKUP NC NORMALLY CLOSED NATIONAL ELECTRICAL CODE END OF LINE VOLT **VOLT AMPERES** EQUIP EQUIPMENT NEMA NATIONAL ELECTRICAL VOLT ALTERNATING CURRENT ES ENERGY SAVIN (EXR) (E) TO BE (R) EXT EXTERIOR **ENERGY SAVING** VAC VOLT MANUFACTURER'S ASSOCIATION VOLTAGE NOT IN CONTRACT NIGHT LIGHT VANDAL-RESISTANT WIDTH, WATT, WIRE NORMALLY OPEN FIRE ALARM WEATHERPROOF NTS NOT TO SCALE FURNISHED BY OTHERS FBO FLA FLR XFMR TRANSFORMER ON CENTER #" INDICATES MOUNTING HEIGHT AFF FULL LOAD AMPS OVERCURRENT PROTECTION OUTSIDE DIAMETER

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Sheet Name: ELECTRICAL SYMBOL FIXTURE LEGEND Sheet No.

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COMPREHENSIVE ENGINEERING 4650 Plainfield Avenue, NE Grand Rapids, MI 49525 616-365-9933

#### **FLAVORSUM**

Project No. 22083 July 5, 2022

PROPERTY AREA 474,525 SF 10.89 ACRES (EXCLUDING ROW)

#### **Proposed Retention Basin Volume**

	Area (sf)	Area (acres)	'C' factor	Imp. Area (sf)
BLDG Roof =	66,845	1.53	0.95	63,502
Pavement/Sidewalk	96,102	2.21	0.95	91,297
Turf	311,579	7.15	0.10	31,158
Total Site Area =	474,525	10.89		185,957
Weighted Site 'C' factor =			0.39	

#### **Allowable Discharge**

Permeability Rate (K)	7.8 in/hr
Adjusted Perm. Rate (50% decrease)	3.9 in/hr
Length of Infiltration Area	
Width of Infiltration Area	
Effective Infiltration Area	24,299 sft
Infiltration out =	2.19 cft/sec
Total Qout =	2.19 cft/sec

#### **Detention Basin Sizing**

				Allowable		
Time	Time	$I_{100-yr}$	CI <sub>100</sub> A	Discharge	CI <sub>100</sub> A- Dis.	Storage
(min)	(hr)	(in/hr)	(cfs)	(cfs)	(cfs)	(cubic feet)
10.0	0.17	7.62	32.8	2.19	30.6	18,358
20.0	0.33	5.60	24.1	2.19	21.9	26,285
30.0	0.50	4.40	18.9	2.19	16.7	30,132
40.0	0.67	3.95	17.0	2.19	14.8	35,529
50.0	0.83	3.50	15.1	2.19	12.9	38,602
60.0	1.00	3.05	13.1	2.19	10.9	39,351
70.0	1.17	2.87	12.3	2.19	10.1	42,597
80.0	1.33	2.68	11.5	2.19	9.4	44,895
90.0	1.50	2.50	10.8	2.19	8.6	46,247
120.0	2.00	1.95	8.4	2.19	6.2	44,622
180.0	3.00	1.49	6.4	2.19	4.2	45,694
270.0	4.50	1.18	5.1	2.19	2.9	47,060
360.0	6.00	0.88	3.8	2.19	1.6	34,105

Required Pond Volume:						
NOAA ATLAS 14, VOL 8, VERSION 2, KALAMAZOO, 100 YEAR STORM EVENT						
Total Storage Required	=	47,060 cubic feet				

### **AVAILABLE RETENTION POND STORAGE:**

#### SOUTH POND ENLARGED

i					
OVERFLOW ELEVATION = 953.50					
100YR ELEV = 952.34					
<u>ELEVATION</u>	AREA(SF)	AVE(SF)	DEPTH(FT)	VOLUME(CF)	
951	2,502			0	
952	5,902	4,202	1	4,202	
953	9,429	7,666	1	7,666	
AVAILABLE POND VOLUME =				11,868 CF	

#### EAST POND

OVERFLOW ELEVATION = 953.50 100YR ELEV = 952.34					
ELEVATION	AREA(SF)	AVE(SF)	DEPTH(FT)	VOLUME(CF)	
950	4,313				
951	5,636	4,975	0.5	2,487	
952	8,360	6,998	1	6,998	
953	11,188	9,774	1	9,774	
AVAILABLE POND VOLUME =				19,259 CF	

#### NORTH POND ENLARGED

OVERFLOW ELEVATION = 953.50 100YR ELEV = 952.34				
ELEVATION	AREA(SF)	AVE(SF)	DEPTH(FT)	VOLUME(CF)
				0
949	3250			
950	7088	5,169	1	5,169
951	11,053	9,071	1	9,071
952	15,144	13,099	1	13,099
953	19,360	17,252	1	17,252
AVAILABLE POND VOLUME =				44,590 CF

#### TOTAL AVAILABLE STORAGE VOLUME:

TOTAL VOLUME = 75,717 CF