HOWELL TOWNSHIP PLANNING COMMISSION REGULAR MEETING

3525 Byron Road Howell, MI 48855 August 26, 2025 6:30 pm

1.	Call to C	Order Control of the
2.	Roll Call	 () Wayne Williams - Chair () Chuck Frantjeskos () Robert Spaulding – Vice Chair () Matt Stanley () Mike Newstead – Secretary () Sharon Lollio () Tim Boal – Board Rep.
3.	Pledge o	of Allegiance
4.		l of the Agenda: Commission Regular Meeting: August 26, 2025
5.	A. Regu	l of the Minutes: ular Meeting July 22, 2025 cial Meeting August 12, 2025
6.	Call to th	ne Public:
7.	Zoning E	Board of Appeals Report:
8.		p Board Report: eeting Minutes August 11, 2025
9.	Ordinan	ce Violation Report:
10	. Schedul	ed Public Hearings:
	A. Lega Business	
	1. N 2. F	Business: Mark Juett, PC2025-09, 4706-28-100-071, Vacant Hydraulic Dr., Final Site Plan Review Renewable Energy Ordinance – Including Invited Guest Speakers: John Mills and Rick VanGilder Portable Storage Container and Cargo Container Ordinance
		Business:
		Shraib Real Estate Holdings, PC2025-12, 4706-21-100-050, 2820 N. Burkhart Rd.,
		Preliminary Site Plan Review
		Guided Mission Investments, PC2025-17, 4706-28-100-012, 1800 N. Burkhart Rd., Temporary Use Request
	3. V	Vrangler's Saloon, Request for Extension of Approved Site Plan
	4. 8	Soapy Bucket, Request for Extension of Approved Site Plan

- 13. Call to the Public:
- 14. Adjournment

HOWELL TOWNSHIP PLANNING COMMISSION REGULAR MEETING MINUTES

3525 Byron Road Howell, MI 48855 July 22, 2025 6:30 P.M.

MEMBERS PRESENT: MEMBERS ABSENT:

Wayne Williams Chair
Robert Spaulding Vice Chair
Mike Newstead Secretary

Tim Boal Board Representative

Chuck Frantjeskos Commissioner

Matt Stanley Commissioner

Sharon Lollio Commissioner

ALSO IN ATTENDANCE:

Township planner Grayson Moore and Zoning Administrator Jonathan Hohenstein

Chairman Williams called the meeting to order at 6:30 pm. The roll was called. Chairman Williams requested members rise for the Pledge of Allegiance.

APPROVAL OF THE AGENDA:

Motion by Boal, Second by Spaulding, "Motion to approve the agenda with the modification to number 12 to switch 12A and 12B." Motion carried.

APPROVAL OF THE MEETING MINUTES:

June 24, 2025

Motion by Spaulding, **Second** by Boal, "Approval." Motion carried.

CALL TO THE PUBLIC

None

ZONING BOARD OF APPEALS REPORT:

None

TOWNSHIP BOARD REPORT:

Draft minutes are included in the packet; Board Representative Boal gave an update. Architect's proposal for oversight of the Township Hall renovation was accepted and the decision for the Community Center on Tooley Rd. was tabled. A digital mapping software program was approved to be used for the cemeteries. REU reduction that was requested by Wrangler's Saloon was approved. Discussion of the letter of intent to purchase the property on the corner of Marr and Oak Grove Road was tabled until next month and an overview/discussion on how Tax Increment Financing (TIF) works. The proposal from Carlisle Wortman for the Park Master Plan was approved.

ORDINANCE VIOLATION REPORT:

Report in packet. Board Representative Boal questioned if there were any applicants for the Ordinance Enforcement Officer position that is posted and Commissioner Frantjeskos questioned if the applicant should live outside the Township.

SCHEDULED PUBLIC HEARINGS:

Portable Storage Container and Cargo Container Ordinance: **Motion** by Boal, **Second** by Newstead, "**To open the public hearing.**" Motion carried. **Motion** by Newstead, **Second** by Frantjeskos, "**To close the public hearing.**" Motion carried. Township Planner Moore gave an update on changes to the Cargo Container Ordinance and answered questions. Board Representative Boal questioned if in the Industrial Flex Zone shipping companies using cargo containers are not subjected to limitations on the number of containers on their site. Vice chair Spaulding questioned the height restrictions for screening of the cargo containers. Commissioner Frantjeskos questioned if detached structures should be 5 or 10 feet from a main structure as both are mentioned. Discussion followed. **Motion** by Frantjeskos, **Second** by Spaulding, "**To postpone any action on the proposed Text Amendment until the text is edited." Motion carried.**

OTHER MATTERS TO BE REVIEWED BY THE PLANNING COMMISSION:

None

BUSINESS ITEMS:

A. Old Business:

1. Renewable Energy Ordinance- Board Representative Boal would like Township resident John Mills to speak to the Planning Commission regarding his knowledge of community solar panels. Vice Chairman Spaulding questioned if anyone has approached the Township to place a Mega Solar Farm. Zoning Administrator Hohenstein spoke on the current Solar Ordinance section 16.19 and the proposed Overlay District. Commissioner Lollio spoke on her concerns about not having a Solar Farm Ordinance with guarantees and surety bonds that address returning property back to its original state once the panels are removed. Board Representative Boal questioned if the Township has any areas that are over 1,800 acres that would be available for an Overlay District. Discussion followed and Planner Moore answered questions.

B. New Business:

1. Mitch Harris Building Co., PC2025-13, Parcel # 4706-27-300-030, Final Site Plan Review. Township Planner Moore gave an update on changes that were made to the site plan and answered questions. Some of these changes are: back patio areas have been removed to comply with setbacks, landscaping plan that shows Dwarf Fountain Grass does not meet the shrub requirement, and minimum plant sizes should be noted on the plan. Vice Chair Spaulding would like an agreement with the River Downs Homeowners Association that Mitch Harris Development would have permission to have access to their detention pond and address the concerns from the Drain Commissioner. Applicants Colbie and Mitch Harris spoke regarding the detention ponds, the runoff from the buildings and their landscaping plan. Board Representative Boal would like to see shrubs for screening only where they are developing along Grand River and questioned the Dwarf Fountain Grass vs shrub requirement. Commissioner Lollio questioned if the ordinance requires buildings to be screened from Grand River Ave. Discussion followed. Motion by Boal, Second by Newstead with a friendly amendment, "To conditionally approve final site plan for parcel # 4706-27-300-030, with the satisfaction of the Drain Commissioner that the drainage concerns have been adequately addressed also with the reduction of 20 Arborvitae trees along the Grand River side and addition of evergreen shrubs instead of the dwarf grass along the Edgebrook side." Motion carried.

Draft Howell Twp. PC 7-22-25

CALL TO THE PUBLIC:

None

Renewable Energy Ordinance:

Motion by Newstead, Second by Lollio, "To postpone action on the proposed Text Amendment so that the following items can be addressed: Invite John Mills to speak and allow Grayson to make any changes or additions that were discussed at the July 22, 2025 Planning Commission meeting." Motion carried.

Motion by Spaulding, **Second** by Newstead, "**To excuse Commissioner Stanley from today's meeting.**" Motion carried.

ADJOURNMENT: Motion by Boal, Second by Newstead, "To a	djourn." Motion carrie	d. The meeting was adjourned at 8:30 P.M
	 Date	Mike Newstead Planning Commission Secretary
		 Marnie Hebert

Recording Secretary

HOWELL TOWNSHIP PLANNING COMMISSION SPECIAL MEETING MINUTES

3525 Byron Road Howell, MI 48855 August 12, 2025 6:30 P.M.

MEMBERS PRESENT:

MEMBERS ABSENT:

Wayne Williams Chair
Robert Spaulding Vice Chair
Mike Newstead Secretary

Tim Boal Board Representative

Chuck Frantjeskos Commissioner
Matt Stanley Commissioner
Sharon Lollio Commissioner

Also in Attendance:

Township Planner Grayson Moore, Applicant Dennis Freeman with Row Crop, LLC and Zoning Administrator Jonathan Hohenstein

Chairman Williams called the meeting to order at 6:30 pm. The roll was called. Chairman Williams requested members rise for the Pledge of Allegiance.

APPROVAL OF THE AGENDA:

Motion by Spaulding, Second by Boal, "To approve or suggested edits" Motion carried.

SCHEDULED PUBLIC HEARINGS:

Row Crop, LLC / Dennis Freeman, PC2025-15, 4706-07-400-005, Vacant land, corner of Fleming Rd. and Marr Rd., request for a special use per Section 16.10 for an outdoor event – Luke Bryan Farm Tour on September 20, 2025. **Motion** by Frantjeskos, **Second** by Newstead, "**To open the public hearing.**" Motion carried. Township Planner Moore gave an overview of the proposed concert with four performing acts scheduled for Saturday, September 20th with operational hours between 2:00 P.M and 11:00 P.M. The week leading up to the concert there will be site preparation and vendors. Sound should not increase beyond 70 decibels outside of the parcel. There will be roads that will be getting treatment of chloride, emergency plans, law enforcement and adequate cell service. Applicant Dennis Freeman gave an overview of the day prior/day of concert and answered questions. They have contracted with Livingston County Sheriff for security and traffic control along with their own private security officers, Fire, EMS and U of M for medical services. They anticipate a maximum crowd of 20,000. Parking will occupy about 70 acres with light towers and four emergency gates. He gave an update of items that still needed to be addressed which were cell phone service, public liability insurance and surety bond. Chairman Williams guestioned dust control on roads.

Janice Derr, 4811 Fleming Rd- Spoke on adequate cell service

Mark Fosdick, 5025 Gannon Rd- Spoke on concerns with traffic on roads, 911 service, noise level for residents in Cohoctah Township and possible conflict of interest with Secretary Newstead having tickets to the concert.

Motion by Spaulding, Second by Stanley, "To close the public hearing." Motion carried. Board Representative Boal questioned COW (cell on wheels), previous concerns in Conway Township, Clean-up on area streets, private security, number and size of gates, chain of command structures and what is the benefit to the Township. Commissioner Lollio guestioned if alcohol was allowed in the concert area. Vice Chair Spaulding questioned public phone lines for first responders, safety signs inside the event, time frame of chloride on dirt roads and sanitation companies. Commissioner Stanley questioned time frame to empty the parking lot after the show. Chairman Williams questioned if there is a plan in place for parking if it rains. Board Representative Boal guestioned the liability to the Township. Discussion followed. Secretary Newstead declared that he would abstain from voting due to possible conflict of interest. **Motion** by Boal, **Second** by Frantieskos, will friendly amendments from Vice Chair Spaulding "To approve the Temporary Land Use to the Luke Bryan Farm Tour on September 20, 2025, located at Parcel ID # 4706-07-400-005. Subject to the following conditions: In leu of public phone the applicant shall demonstrate adequate cell phone coverage for attendees and staff to meet the intent of ordinance number six, to include if possible, a metric for cell phone comparison between us and the last location also the completion of a held harmless agreement with the Township and adequate insurance coverage to be determined by the Township authorities and additional chloride of the roads as necessary. That all activities shall occur in accordance with the approved site plan and events scheduled submitted with the application dated July 10, 2025 or after September 20, 2025 or otherwise determined rain date as long as all light conditions are satisfactory and the services are to be provided as indicated in the application." Roll Call: Lollio- yes, Boal- yes, Newstead- abstained, Williams- yes, Spaulding- yes Stanley- yes, Frantjeskosyes. Motion passed 6-0. Motion by Spaulding, Second by Lollio, "To recommend approval to Township Board of the Special Land Use for the Luke Bryan Farm Tour on September 20th or otherwise designated rain date on Parcel ID # 4706-07-400-005 finding that the proposed use meets the special land use standards of the Township zoning ordinance subject to the conditions listed in the Temporary Land Use approval dated August 12, 2025 and the Planner's report dated August 6, 2025. Motion carried.

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None

ADJOURMENT:

Motion by Newstead, **Second** by Frantjeskos, "**To adjourn.**" Motion carried. The meeting was adjourned at 7:50 P.M.

Date	
	Mike Newstead
	Planning Commission Secretary
	Manaia Habard
	Marnie Hebert
	Recording Secretary

Monthly Permit List

Comme	rcial Land Us	se		
Permit #	Applicant	Address	Fee Total	Const. Value
P25-143	REGAL RIGGING & DEMILITION LLC Work Description: D	3399 COUNTY AIRPORT DR emolition of 3480 W. Grand River	\$150.00	\$0.00
P25-134	JEREMY BEARD Work Description: B	2770 FISHER RD uilding a berm	\$250.00	\$0.00
P25-149		MARR- VACANT wo temporary driveways into the pa leming.	\$250.00 crcel. One on M	\$0.00 Marr and one on

Total Permits For Type: 3
Total Fees For Type: \$650.00
Total Const. Value For Type: \$0.00

Reside	Residential Land Use							
Permit #	Applicant	Address	Fee Total Cons	t. Value				
P25-146	Cale Gillett Work Description: New Hor	3700 N BURKHART ne Construction	\$75.00	\$0.00				
P25-140	LAHO BRANDON AND CINDY Work Description: 16' X 3 space	7 5675 BYRON RD L8' two story addition, secon	\$75.00 d floor is unfinishe	\$0.00 ed attic				
P25-138	SUPERIOR CUSTOM HOMES Work Description: 10' x 1	1044 ELLINGTON DR L6' treated wood deck on fron	\$50.00 t of home	\$0.00				
P25-164	FOUNDATION SYSTEM OF MICHIGAN Work Description: 1943 ft	5600 W GRAND RIVER RD C. Crawl Seal (5580 W. Grand	\$10.00 River is house addre	\$0.00 ess)				
P25-133	WEATHER GARD WINDOWS Work Description: Instal	727 JOHN WARD DR I six same size vinyl replace	\$10.00 ment windows	\$0.00				
P25-147	STRAWBERRY SOLAR Work Description: Instal	5974 LAYTON RD ling a ground mount solar pan	\$75.00 el system, 14 panels	\$0.00				
P25-135	Trademark Building Company Work Description: New cor	1500 E MARR nstruction single family home	\$75.00 with decks	\$0.00				
P25-139	PREMIUM ROOFING LLC. Work Description: Tear of structu	900 w MARR RD ff and reroof house and attac ural changes	\$10.00 hed garage with no	\$0.00				
P25-137	LAVALLEY RICHARD AND JESSICA Work Description: Wood pa	4111 MARWOOD DR	\$50.00 16ft out and 96ft o	\$0.00 lown				
P25-132	SCOTT TERRY F & ANN C	5525 OAK GROVE RD part of existing out buildin	\$10.00	\$0.00				

P25-142	Michael Chosid Work Description: New Mol		\$0.00	\$0.00
P25-141	Michael Chosid Work Description: New Mol		\$0.00	\$0.00
P25-136	Matthew Smith Work Description: Roof	5480 SPRING CREEK DR replacement	\$10.00	\$0.00
P25-148	SGI Heating and Coolir Work Description: Genera	ng 3312 WARNER RD tor Installation. To be pla	\$10.00 ced on a pre-fab pad	\$0.00
P25-145	Michael Chosid Work Description: New Mol		\$0.00	\$0.00
P25-144	Michael Chosid Work Description: New Mol		\$0.00	\$0.00
P25-131	JCH BUILDERS Work Description: New 24	1555 WOODHAVEN RD 45 SF single family home	\$75.00	\$0.00

Total Permits For Type:
Total Fees For Type:
Total Const. Value For Type:

17 \$535.00 \$0.00

Sewer	Connection			
Permit #	Applicant	Address	Fee Total	Const. Value
PWS25-081	DCM INVESTMENTS LLC Work Description: Sewer		\$5000.00	\$0.00
PWS25-085	Michael Chosid Work Description: Sewer		\$2083.33	\$0.00
PWS25-082	Michael Chosid Work Description: Sewer	4430 RAMSBURY DR connection	\$2083.33	\$0.00
PWS25-089	Michael Chosid Work Description: Sewer		\$2083.33	\$0.00
PWS25-086	Michael Chosid Work Description: Sewer		\$2083.33	\$0.00

Total Permits For Type:
Total Fees For Type:
Total Const. Value For Type:

\$13333.32 \$0.00

Water	Connection				
Permit #	Applicant	Address		Fee Total	Const. Value
PWS25-084	Michael Chosid Work Description: W	4412 RAMSBURY ater Connection	DR	\$2083.33	\$0.00
PWS25-083	Michael Chosid Work Description: W	4430 RAMSBURY	DR	\$2083.33	\$0.00

PWS25-088 Michael Chosid 1032 WELLESLY DR \$2083.33 \$0.00

Work Description: Water Connection

PWS25-087 Michael Chosid 1036 WELLESLY DR \$2083.33 \$0.00

Work Description: Water Connection

Total Permits For Type:

Total Fees For Type: \$8333.32
Total Const. Value For Type: \$0.00

Grand Total Fees: \$22,851.64

Grand Total Permits: 29.00

Address	Owners Name	Parcel Number	Date Filed	Origin	Status
222 BAIN DR	OTREMBA EMILY AND	4706-14-401-039	07/22/2025		OPEN - COMPLANT RECEIVE
C 1:4					

Complaint

Running a business out of the home, business trucks, business equipment in yard, renting a dump trailer, storing building supplies, camper in the front yard, tractor on less than 2 acres.

Comments

- 7.22.25 Owner stopped into Twp RE camper in his driveway, waiting on a part to fix the camper and then it will be stored off site again. Part should be in by August 4
- 7.22.25 Unofficial email complaint received, additional email with information received
- 7.23.25 Email from C received with additional information
- 7.23.25 Emails from neighbor received
- 7.25.25 Emails from C received with additional information
- 7.25.25 Email from neighbor received
- 7.29.25 Official complaint received
- 7.29.25 Owner stopped in about another matter, spoke to owner about items in complaint
- 7.30.25 Emails from neighbor received
- 8.4.25 Site visit completed, photos attached.

5495 OAK GROVE RD	LORENZ ROBERT & TR	4706-02-401-001	05/01/2025	ANONYMOUS	OPEN - COMPLANT RECEIVE

Complaint

Blighted property and Nuisance . Property is in a condition and disrepair. Accumulation of filth, garbage, dismantled cars, auto parts, vegetation overgrowth, decayed trees, junk, animal excrement and vermin.

- 5.1.25 Received complaint
- 5.7.25 Site visit completed, photos attached, letter sent to owners
- 6.16.25 Site visit completed, no apparent clean up efforts underway, photos attached, letter sent to owners
- 7.21.25 Site visit completed, no apparent change to site.
- 8.4.25 Site visit completed, no one was home, violation still present, issued MCI Notice of Violation Ticket #0207.

Address	Owners Name	Parcel Number	Date Filed	Origin	Status
		4504.00.044	00/10/00		
2900 BREWER RD Complaint	LECHEVALIER KAYED	4706-22-200-014	02/13/2025	PUBLIC - EMAIL	OPEN - COMPLANT RECEIVE

Broken down vehicle in front yard, farm tractor on a lot under 2 acres.

- 2.13.25 Received complaint
- 2.14.25 Spoke to homeowner about violations
- 2.19.25 Letter sent to homeowner
- 2.19.25 Homeowner provided proof of registration and insurance
- 2.25.25 Spoke to homeowner and Twp. Planner RE parking
- 3.31.25 Site visit completed, violations still present. Waiting on letter from Twp. Planner.

Address	Owners Name	Parcel Number	Date Filed	Origin	Status
3408 CHERYL DR Complaint	MELTON HAROLD D &	4706-14-401-029	02/10/2025	PUBLIC - EMAIL	OPEN - COMPLANT RECEIVE

Has 3 junk cars, junk boat, junk camper, and at least 80 yards of debris scattered in his backyard.

- 2.10.25 Complaint received.
- 2.11.25 Site visit completed.
- 2.12.25 Letter sent to owner.
- 2.18.25 Owner came into the Township and discussed the violations. The owner has agreed to a schedule to remediate the violations.
- 3.31.25 Site visit completed, no visible change.
- 4.30.25 Site visit completed, one vehicle no longer on site
- 5.15.25 Spoke to homeowner, is requesting extension until July 1st to get the property in compliance. Letter sent to owner RE agreement
- 6.16.25 Site visit completed, photos attached.
- 6.16.25 Contacted owner for update, boat has been removed from the property, working on dismantling and scrapping the camper, will be removing the Cadillac, and the truck or proving that it is in active service.
- 7.1.25 Site visit completed, one car, one truck, and the camper are still on site. Spoke to homeowner, request to extend the deadline was denied, spoke about steps moving forward and expectations on getting the issues remediated.
- 7.2.25 Issued ticket #0206. If property is in compliance by July 31st Twp will waive this ticket.
- 7.21.25 Site visit completed, photos attached.
- 7.24.25 Spoke to owner, camper has been removed from the site. Truck will be going to family member, Cadillac is for sale. Agreed that if the truck was gone by the 31st would be willing to allow a reasonable amount of time to try and sell the Cadillac. Will check after the 31st on status of the truck.
- 7.31.25 Spoke to owners, confirmed prior conversation
- 8.4.25 Spoke to owner, confirmed prior conversation
- 8.4.25 Site visit completed, owner invited us to verify that items had been taken care of as agreed to. Photos attached of truck in the barn and camper has been removed.

Address	Owners Name	Parcel Number	Date Filed	Origin	Status
5704 CRANDALL RD Complaint	JEWETT RICHARD L &	4706-05-200-004	11/25/2024	PUBLIC - EMAIL	OPEN - COMPLANT RECEIVE

A person is living in an RV in the back of the property against Township Ordinance.

- 12.10.24 Site visit completed. RV is located in the back of the property. Letter sent to owner.
- 1.27.25 Site visit completed. No visible change. Letter sent to owner.
- 2.11.25 Requested additional information from complainant
- 3.10.25 January letter returned unclaimed.
- 3.11.25 December letter returned unclaimed.
- 3.31.25 Site visit completed. New letter mailed out.
- 4.7.25 Copy of letter given to homeowner. Spoke to homeowner admitted that someone is living in the RV. Follow up letter sent to owner.
- 4.14.25 Spoke to homeowner on the phone. Spoke to Jake at LCHD on the phone, they received a complaint about sewage being discharged onto the ground from one of the RVs. Spoke to person staying in the RV (Wes Gray) on the phone. Jake from LCHD and I made a visit to the site, spoke to Wes. Wes understands that he cannot live in an RV on the property. We agreed to 30 days to remove his things from the site.
- 4.30.25 Site visit completed, Wes appears to be working on getting his things removed.
- 5.14.25 Spoke to the homeowner, Wes moved some things but has started building a new trailer. Owner will call the Sheriff's Department to understand her options to get Wes removed from her property.
- 5.19.25 Spoke to Wes, he has removed a lot of stuff but would like until June 1, 2025 to remove the rest of his stuff. He will provide receipts for the dumpster that he used. Twp will make a site visit and confirm that progress has been made. If progress has been made then we are willing to extend deadline to June 1.
- 5.19.25 Site visit completed, some clean up has taken place, photos attached. Spoke to homeowner, admits a lot of work has been done and has no issue with Wes's request to extend deadline to June 1. Letter sent to owner to confirm same.
- 06-02-25- MH- Spoke with Wes and he doesn't have any where to go, fractured his hand and hurt his back moving stuff off the property. He is still trying to move stuff off the property. Jonathan is out of the office so I let him know he would be contacted when he returns.
- 6.12.25 Spoke to Wes, said he has hurt his hand but still intends to remove his things from the property. We agreed to an extension to July 31st for all things to be removed from the property, no further extensions will be granted for any reason. Will prepare letter to owners RE same.
- 6.16.25 Site visit completed, some changes have been made, photos attached.
- 7.21.25 Site visit completed, photos attached.
- 8.4.25 Site visit completed, Wes has not removed his belongings from the property, still living in the RV. Spoke to owner. Personally issued MCI Citation ticket #0162 to Denise Stach. Personally issued MCI Citation ticket #0163 to Wes Gray.

Address	Owners Name	Parcel Number	Date Filed	Origin	Status
4141 W GRAND RIVER A Complaint	TONON CHIARINA S	4706-20-400-012	09/24/2024		OPEN - COMPLANT RECEIVE

House is neglected, building unsafe, junk in yard.

- 9.24.24 Contacted Livingston County Building Department RE performing dangerous building inspection.
- 10.3.24 Received LCBD determination letter. Contacted Spicer RE Dangerous Buildings Hearing Officer availability. Spicer does not currently have availability to perform these duties.
- 10.17.24 Letter sent to owner.
- 12.19.24 No response received. Second letter sent to owner with tracking.
- 1.9.25 Spoke to owner, is getting quotes from companies to demolish the structures. Provided contact information to Township and will stay in touch with progress reports.
- 1.27.25 Violation still present.
- 3.31.25 Site visit completed, violation still present, no visible change
- 4.30.25 Site visit completed, violation still present, no visible change, will reach out to owners
- 5.7.25 Left message for owner
- 5.9.25 Received voicemail from owner, they are currently working through asbestos testing, getting the site taken care of in 4-6 weeks
- 5.14.25 Spoke to the company that will be performing the demolition and discussed the permitting process
- 6.16.25 Site visit completed, no change

Address	Owners Name	Parcel Number	Date Filed	Origin	Status
3265 W GRAND RIVER A Complaint	AMERICAN LEGION P	4706-28-200-010	05/21/2024		OPEN - COMPLANT RECEIVE

Starting to add more parking on adjacent lot owned by MDOT without permits.

- 4.25.24 Received call regarding work being done by American Legion. Site visit, verified work was underway. Contacted MDOT RE approval.
- 5.21.24 Site visit completed, violation still present. Sent letter to American Legion.
- 6.18.24 Site visit. More work has been completed including installing gravel in excavated area and a tent and fencing has been erected next to gravel area on MDOT property. Letter sent to American Legion.
- 8.1.24 Site visit completed. Tent and fencing have been removed, large pile of dirt has been removed, additional gravel parking area still on MDOT property.
- 9.4.24 Site visit completed. Violation still present. Posted Notice of Violation Ticket to front door, mailed a copy of the violation. Ticket #: 0202
- 9.4.24 Phone conversation with Commander Laura Goldthwait. Requested letter explaining the violation and steps moving forward. Mailed to Legion, emailed to Laura, attached.
- 9.12.24 Received correspondence from Legion's attorney denying all responsibility. Documents provided to Township's attorney. Township's attorney has contacted Legion's attorney.
- 10.8.24 Site visit completed. Photos of Legion using the additional parking attached.
- 12.10.24 Site visit completed. Christmas trees located in additional parking area and land east of building. Letter sent regarding temporary uses requiring permits.
- 1.27.25 No change to property
- 3.31.25 No change to property
- 4.30.25 No change to property
- 6.16.25 Site visit completed, photos attached, tent and fencing have been installed by the Legion on MDOT Property, no change to the additional parking area

Address	Owners Name	Parcel Number	Date Filed	Origin	Status
3590 W GRAND RIVER Complaint	HASLOCK PROPERTIE	4706-28-100-024	05/06/2024		OPEN - FIRST LETTER SENT

Zoning Violations:Outdoor storage without screening, setback issues, parking not hard surfaced, no sign permit.

Comments

- 5.13.24 Violation letter to Occupant returned.
- 5.20.24 Received phone call from owner. Will be preparing a site plan to take before the Planning Commission for approval.
- 6.20.24 Received phone call from owner, discussed site plan requirements.
- 9.4.24 Sent letter to owner RE site plan progress.
- 9.12.24 Spoke to owner, Engineer has site plans almost complete. Will submit for review in the near future.
- 2.27.25 Spoke to owner, Engineer will be submitting plans in the next week or two.
- 3.31.25 Site visit completed, violations still present
- 4.30.25 Site visit completed, violations still present
- 5.1.25 Property owner turned in site plan. Currently considering if they would like to schedule a pre-conference prior to formally submitting the site plan.
- 6.9.25 Spoke to the owner about next steps to move the site plan forward, owner is considering pairing down what has been proposed.
- 6.16.25 Site visit completed, photos attached.
- 7.21.25 Site visit completed, photos attached.

5057 WARNER RD HARTER EDWARD H 4706-19-200-005 03/14/2022 PUBLIC/ EMAIL OPEN - SECOND LETTER SEN

Complaint

LARGE AMOUNT OF JUNK AND LITTER IN THE YARD.

- 4.17.2023 THERE IS MORE JUNK NOW THEN THERE WAS LAST MARCH OF 2022 OR JANUARY OF 2023.
- 5.25.2023 I SPOKE WITH MR. HARTER HE IS STARTING TO CLEAN THE SITE UP, HE SAID THAT IT WILL TAKE SOME TIME TO GET IT ALL CLEANED UP. I WILL BEE CHECKING ON HIS PROGRESS EVERY FEW WEEKS TO MAKE SURE HE IS MAKING PROGRESS.
- 6.29.2023 SOME PROGRESS HAS BEEN MADE. WILL CHECK BACK IN A COUPLE OF WEEKS.
- 1.9.2024 did a site vist there has been no progress made on the clean up.
- 1.11.2024 Finial letter sent.
- 3.20.24 Site visit. No remediation of issues has taken place. Photos attached.
- 3.25.24 Spoke to owner. Owner is working on cleaning up the property, has dumpsters being delivered, scrap is in piles and ready to be taken to the scrap yard. Has requested 3 months to get the property cleaned up. Letter sent in confirmation of agreement. Scheduled visit for June 25th.
- 4.23.24 Site visit. Violation still present. Scheduled reinspection.
- 5.20.24 Site visit. Work has been started. Violation still present. Scheduled reinspection.

Address Owners Name Parcel Number Date Filed Origin Status

- 6.18.24 Site visit. Violation still present, no evidence of continued clean up activity. Will reinspect on June 25th as agreed.
- 6.25.24 Site visit. Minimal changes to site, violation still present. Letter sent to owner.
- 8.1.24 Site visit completed. Owner still working on clean-up.
- 9.4.24 Site visit completed, spoke to homeowner. Owner claims to have back of property nearly complete. Dumpster to be arriving next week, neighbors helping to remove scrap in the next few days.
- 10.8.24 Site visit completed. No evidence of activity. Final violation letter sent to owner.
- 11.6.24 Site visit completed. No evidence of activity. Will check property on 11.14.24 per letter.
- 11.14.24 Site visit completed. No evidence of activity. Ticket number 0204 issued. Ticket mailed to homeowner 11.18.24.
- 12.4.24 Spoke to homeowner. He will be completing a clean-up schedule and providing it to the Township. If the schedule is followed and clean-up of property is achieved ticket will be waived.
- 12.10.24 Schedule has not been provided to Township. Site visit completed, no change.
- 1.27.25 Site visit completed, no change. Schedule has not been provided to Township. Final violation letter sent to owner.
- 2.3.25 Received phone call from owner's wife, owner is currently in jail. By February 24th they will contact the Township to discuss deadlines for removing the junk from the site. Letter sent to owner to confirm same.
- 2.24.25 Spoke to owner's wife.
- 2.28.25 Spoke to owner's wife, came to agreement on clean up schedule. Letter on agreement sent to owner.
- 3.17.25 2.28 letter returned. Mailed out letter again.
- 3.21.25 Homeowner left message stating that all scrap metal has been removed, two vehicles will be removed this week. We may stop by any time to see the progress.
- 3.31.25 Site visit completed, violation still present
- 4.30.25 Site visit completed, violation still present. May 4th is the clean-up deadline, will make site visit Monday May 5th to check status.
- 5.7.25 Site visit completed, violation still present. Posted ticket #0159 to the structure, filed ticket with the District Court and requested an informal hearing, mailed copy of ticket to owner.
- 5.19.25 Received information from District Court setting formal hearing date. Contacted the court to switch to an informal hearing as originally requested.
- 6.10.25 Called Court RE informal hearing date, Court's system indicated that the ticket had been paid and closed.
- 6.16.25 Site visit completed, no apparent change, photos attached. Ticket filed with Court requested informal hearing, ticket posted to structure and mailed to owner.
- 7.16.25 Magistrate refused to hear the case, claimed he did not have the authority for injunctive relief, ticket dismissed.
- 7.21.25 Site visit completed, no apparent change, photos attached. Ticket 0161 filed with the Court requesting formal hearing. Ticket posted to structure and mailed to owner.
- 7.29.25 Formal Court hearing scheduled.

Records: 9

Population: All Records

From MSU Extension - Mary Reilly, AICP

Township's ZBA did not provide sufficient factual findings, remanded to ZBA for further explanation of decision to grant land-division variance

Case: Keep Whitewater Twp. Rural, Inc. v. Township of Whitewater, MI Court of Appeals, Unpublished, Decided 6-13-25

Holding that appellee-township's ZBA did not provide sufficient factual findings, the court vacated the trial court's order affirming the ZBA's order and remanded to the ZBA for further explanation of its decision to grant a land-division variance. Appellee's ZBA granted a land-division variance allowing a parcel of real property owned by third-party intervenor to comply with relevant ordinances, despite the fact that the parcel did not comply with the requirement that its depth-to-width ratio must not exceed 4:1. The trial court affirmed.

On appeal, the court rejected appellant's argument that the procedure used to approve the land division in 2020, which created the subject parcel, rendered the ZBA's 2023 variance award invalid. "We cannot see how an alleged procedural deficiency in the 2020 land-division approval process could have any impact on the 2023 variance request, given the fact that the 2020 land-division approval had been deemed invalid by the time of the 2023 variance request." However, the "ZBA provided insufficient factual findings on" the five necessary "elements to permit us to meaningfully review the ZBA's decision to grant a variance." Because the ZBA "gave no meaningful explanation for its decision, the [trial] court grossly misapplied the substantial evidence test to the ZBA's factual findings when it affirmed the ZBA's order." Source: Michigan Bar, e-Journal Summary, No. 83858, 6-30-25. Full text:

https://www.michbar.org/Portals/0/opinions/appeals/2025/061325/83858.pdf



Topics unique to local officials

Reviewing Zoning Board of Appeals Petitions: Part 2 – Effective Decision Making

Excerpted from the Zoning Board of Appeals Toolkit, a Michigan Association of Planning publication

Discussion, deliberation, and decision principles

The following principles should be considered when reaching decisions on all applications. A more detailed analysis of the specific review criteria for the different types of petitions is included at the end of this section.

Base it on the zoning ordinance. The ZBA must ensure that the standards required for review are used properly and made part of the record. Discussion should be focused on ordinance requirements and standards, and ZBA members should be well-versed in the language, meaning, and application of the zoning ordinance. It is particularly important that the ZBA understand the reasoning behind the regulation. This may create the need to consult with the planning commission to determine why the language is constructed in a particular way. It is not sufficient to merely state that the standards are met or not met. The record must show sufficient facts to back up the findings made according to the ordinance standards.

Have knowledge of pertinent case

facts. Before making a decision, determine whether all the applicable facts about the case have been submitted and reviewed. Refer to the 'Gathering Information' section of this toolkit for specific sources of information. This information must be shared with the entire board and discussed as part of the deliberation.

Relate to conditions on the land. For variances, the justification must be related to conditions present on the land, not those which happen to affect the applicant. Variances run with the land, not with the owner. Subsequent owners are entitled to the same variance.

Determine the validity of the difficulty or hardship. Property owners have certain rights to enjoy the use of the property within the limits of the ordinance. They are not, however, entitled to special privileges simply because compliance with the ordinance is inconvenient. The function of the ZBA is to uphold the provisions of the ordinance; it is not to allow someone to find a way around the ordinance to avoid an inconvenience.

Findings of fact

Documentation of decisions is the last formal step in the decision making process. Documentation takes place in the form of a motion and should be based on findings of fact. A finding of fact is a concise statement of the action taken by the ZBA which helps diminish ambiguity surrounding the rationale for a decision. In the event that a decision is litigated, a finding of fact provides the court with a full understanding of why a decision was made. Decisions made by the court are generally made on the basis of the record, not the result of additional testimony. If the community provides a solid record of their decision, including a finding of fact based on appropriate standards, the court is less likely to substitute its judgment for that of the board.

Findings of fact also help avoid concern of setting precedents. Every case must be heard on the merits of the facts presented, for that specific case, and every decision must be based on the standards of the ordinance. Making proper decisions and stating the reasons for such decisions emphasizes the individual treatment of each application.

Findings of fact typically include the following information:

- ✓ Applicant's name and description of request.
- ✓ Location and description of the physical characteristics of subject property.
- ☑ References to relevant sections of the zoning ordinance.
- ☑ Statement of how the applicant meets, or fails to meet, the community's standards for the type of request.
- ☑ Input from neighbors.
- ☑ The motion made by the board.
- Any conditions attached to an approved request.

Content of Motions

All motions should include the following:

- Application number and name of applicant.
- ☑ Description of the nature of the request.
- Action taken (approval, approval with condition, denial, tabling).
- ☑ Conditions attached to the motion, if applicable (including who will verify that they are met).
- ☑ Reasons for the action taken (findings of fact).

Motions and the Chair

- ☑ The chairperson should restate the motion clearly after is has been made and seconded, "It is moved and seconded that…"
- ☑ When a motion requires a second, the chairperson should be sure it is seconded; a motion with no second should be rejected.

- ☑ The chairperson should entertain only one motion at a time.
- ☑ The motion maker should be able to discuss the motion first.
- ☑ The chairperson should not permit anyone to speak twice on a motion until all have had a chance to speak once.

By directing all comments through the chair, it is often possible to avoid debates between members of the audience, the presenter and the audience, and the board and the audience or presenter.

Conditions

For variance requests, the zoning board of appeals may attach conditions of approval to ensure compliance with the purpose and intent of the zoning ordinance. If a motion includes conditions, they must meet all of the following requirements:

- ☑ Be reasonable and designed to protect natural resources, the health, safety, and welfare and the social and economic wellbeing of those who will use the land or activity under consideration, residents and landowners immediately adjacent to the proposed land use or activity, and the community as a whole.
- ☑ Be related to a valid exercise of police power, and purposes which are affected by the proposed use or activity.
- Be necessary to meet the intent and purpose of the zoning ordinance, be related to the standards established in the ordinance for the land use or activity under consideration, and be

- necessary to ensure compliance with those standards.
- ☑ Be recorded in the record of the approval action and remain unchanged except upon the mutual consent of the zoning board of appeals and the landowner. The ZBA shall maintain a record of conditions which are changed.

The motion should identify who is responsible to ensure conditions are implemented. This could include a statement such as "a revised site plan shall be submitted for the secretary of the ZBA or zoning administrator to certify that all conditions have been met."

Next in the series: How to Avoid Litigation

To purchase a copy of the Zoning Board of Appeals Toolkit, go to www.planningmi.org

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HOWELL TOWNSHIP

Application for Site Plan Review

3525 Byron Road Howell, MI 48855 Phone: 517-546-2817 ext. 108 Email: inspector@howelltownshipmi.org

File #____

Parcel ID #: 4706-28 - 100 - 07 /	Date_ 4. 75. 25
Applicant Name MARL JUETT	Applicant Address_
Phone Fax_	Email
Property Owner Name_ KEN CO	CUER
	Email
Please list all recipients to receive information	n and/or reports:
Name: Coundrett	Email
Name: HANNAHJUETT	
Name:	Email
Location of Property 4852 Augro	Aulic Current Zoning Classification
Existing Use VACANT	Proposed Use OUTS IDE STANALE
Check One:	
Preliminary Site Plan Review (20.06)	Final Site Plan Review (20.07)
Temporary Use (14.34)	Commercial/Industrial Development
Subdivision/Site Plan Condo	Multi-Family/Condo
Planned Unit Development (PUD) Type:	1 2 3 4 5

Applicant needs to provide the following site plan drawings: twelve (12) full size copies, eight (8) - 11" x 17" copies, and an electronic set (either on an USB drive or provide an online link) for the preliminary site plan drawings. Drawings shall be submitted with an application for site plan review (20.06 a) thirty (30) days prior to the meeting.

7-31-25 Howell Township 3525 Byron Road Howell, Michigan 48855

Howell Township Planning Commission,

We are applying for final site plan approval on the parcel at 4802 Hydraulic Drive. Our intended use for this property is to provide needed storage for Boats, RV's, Trucks and small contractors.

Please let this section of this letter serve to address the items listed by the community planners' letter revised 7-15-25.

- 1. Amended sheet SP to depict parcel zoning as Industrial Flex Zone instead of Industrial.
- 2. As discussed at the preliminary site plan review, the industry standard is to use the term "fabric" to refer to chain link fence material; however since this was mentioned again in the planner's revised letter, we have updated the site plan to replace the term "fabric" with "chain link."
- 3. As discussed with the planning commission and approved at preliminary site plan review meeting, the screening will remain as drawn.

We believe that the calculations used to determine the total possible shipping container square footage were incorrect. The planners determined a total of 1,200 sq.ft. of shipping container allowed for our site, citing section 14.07. However according to section 14.07, the regulation is 4% of lot area to a maximum of 3,000sq.ft. Our site is 11.5 acres, which is 500,940 sq.ft, and 4% of that is 20,037.6 sq.ft. Since that is more than the maximum allowed of 3,000sq.ft, our site should be allowed the maximum of 3,000sq.ft. of shipping container.

Please let this section of this letter serve to address the items listed by the Fire Authority review dated 7-7-25. We have added a fire hydrant per the fire inspector's review.

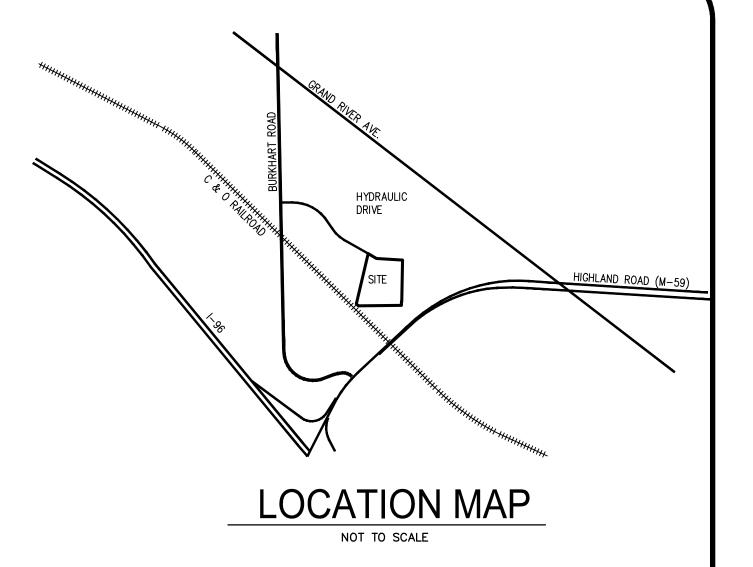
Thank you for your consideration and time reviewing our final site plan.

Sincerely,

The Juett Family Outdoor Storage LLC

CONSTRUCTION PLANS OUTSIDE STORAGE HOWELL

A PART OF THE NORTHWEST 1/4 OF SECTION 28 T3N, R4E, HOWELL TOWNSHIP, LIVINGSTON COUNTY, MICHIGAN



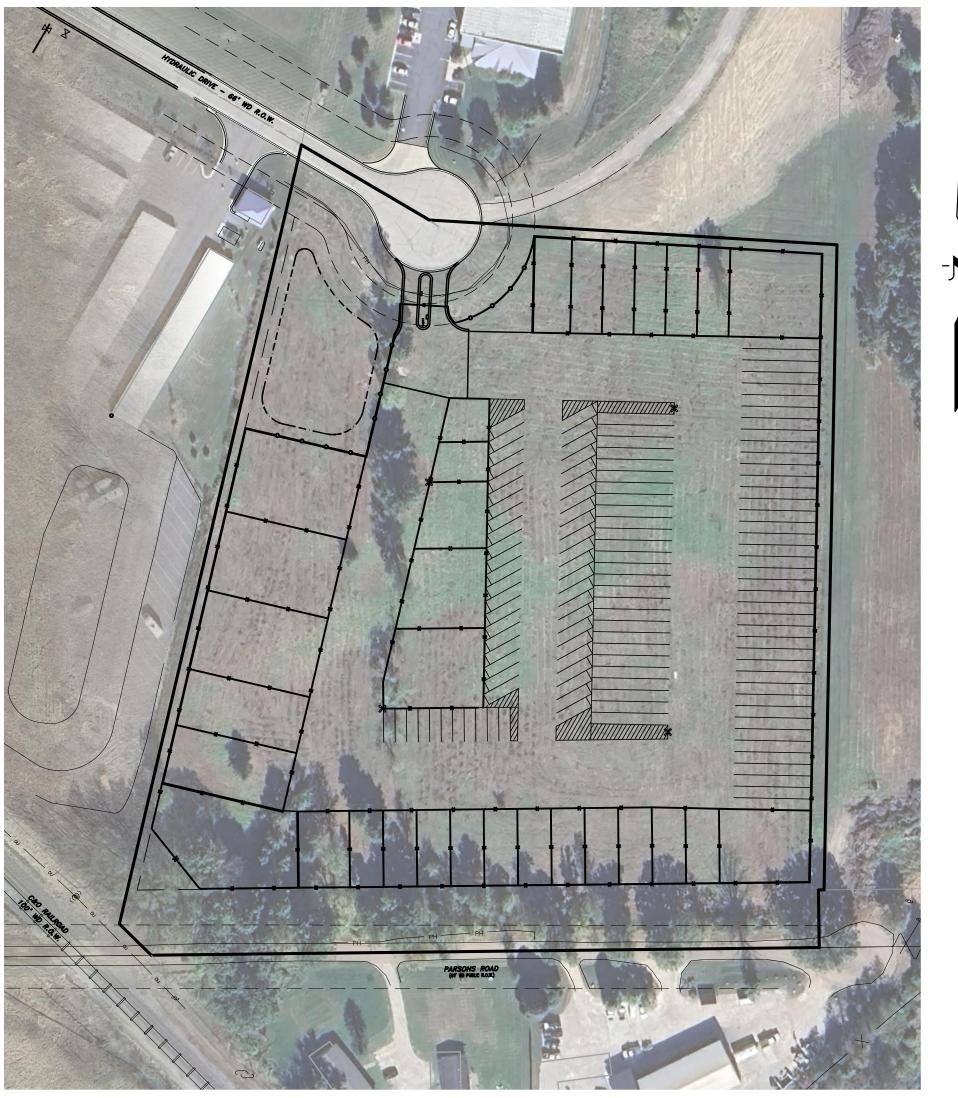
PARCEL No. 4706-28-100-071 11.50± Acres (Net 10.66± Acres without Right-of-Ways)

Commencing at the West 1/4 Corner of Section 28, Town 3 North, Range 4 East, Howell Township, Livingston County, Michigan; thence N00°55'07"W 1666.00 feet along the West line of said Section and the centerline of Burkhart Road; thence along the centerline of a 66 foot wide permanent road easement (Hydraulic Drive) the following four courses:

1) N89°04'54"E 178.89 feet,

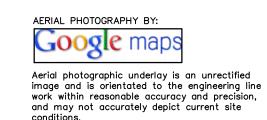
- 2) Southeasterly 645.25 feet along the arc of a 650.00 foot radius curve to the right through a central angle of 56°52'37" and having a chord bearing S62°28'48"E 619.08 feet,
- 4) Southeasterly 178.17 feet along the arc of a 400.00 foot radius curve to the left through a central
- angle of 25°31'17" and having a chord bearing S46°48'08"E 176.70 feet and
- 5) S59°33'47"E 465.29 feet to the **PLACE OF BEGINNING**;

thence S59°33'47"E 154.26 feet; thence S86°31'50"E 425.43 feet; thence S1°08'59"W 672.06 feet; thence S89°20'15"W 5.80 feet; thence S00°39'45"E 60.00 feet; thence S89°20'15"W 695.67 feet; thence N45°25'07"W 46.47 feet; thence N13°09'30"E 833.18 feet to the Place of Beginning. Containing 11.50 acres, more or less. Subject to and together with a 66 foot wide permanent road easement (Hydraulic Drive) as described in Certified Land Survey #7561 recorded in Liber 4251, Page 603, Livingston County Michigan over the Northwesterly portion as occupied, also being subject to and together with a 35 foot wide private easement for storm drainage as previously described in said Certified Land Survey #7561, also subject to a 12 foot wide private easement for public utilities lying adjacent to and exterior said 66.00 foot wide road easement, also being subject to easements and restrictions of record, if any.



AERIAL PHOTOGRAPH

SCALE: 1in. = 100ft.



SHEET INDEX

EX EXISTING CONDITIONS & DEMOLITION PLAN

SP SITE PLAN

UT1 UTILITY PLAN

UT2 CONTROL STRUCTURE, DETAILS & CALCULATIONS

UT3 UTILITY PROFILES

GR GRADING PLAN

50 SOIL EROSION CONTROL PLAN

SE2 SOIL EROSION CONTROL DETAILS

WS WATER SHED PLAN

DT1 PAVING & SITE NOTES & DETAILS
DT2 STORM SEWER NOTES & DETAIL

LANDSCAPE PLAN

MHOG STANDARD WATERMAIN DETAILS





ISSUED SCALE: AS NOTED

JUNE 5, 2025

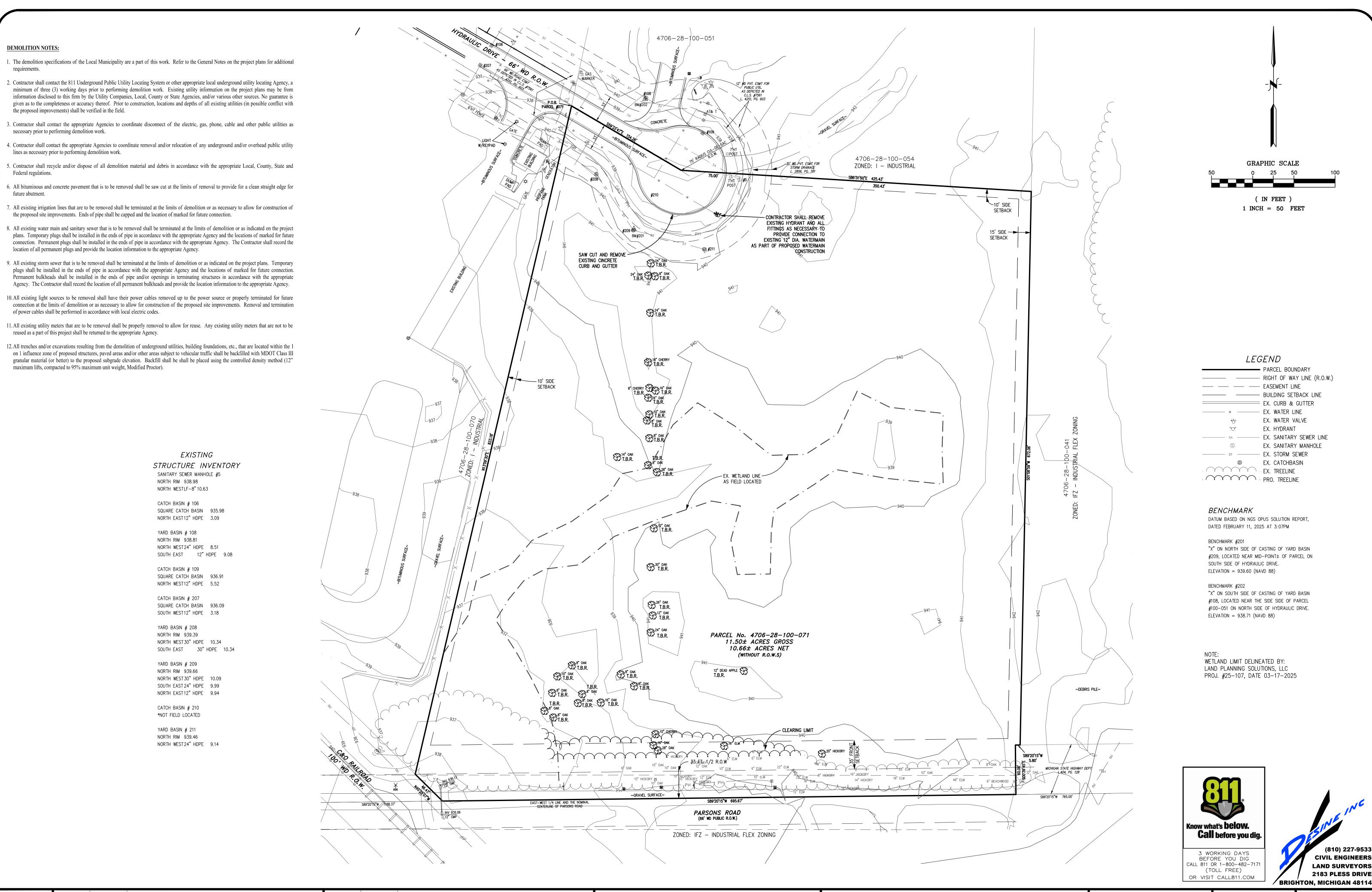
PROJECT No.: 244802

DWG NAME: 4802 COV

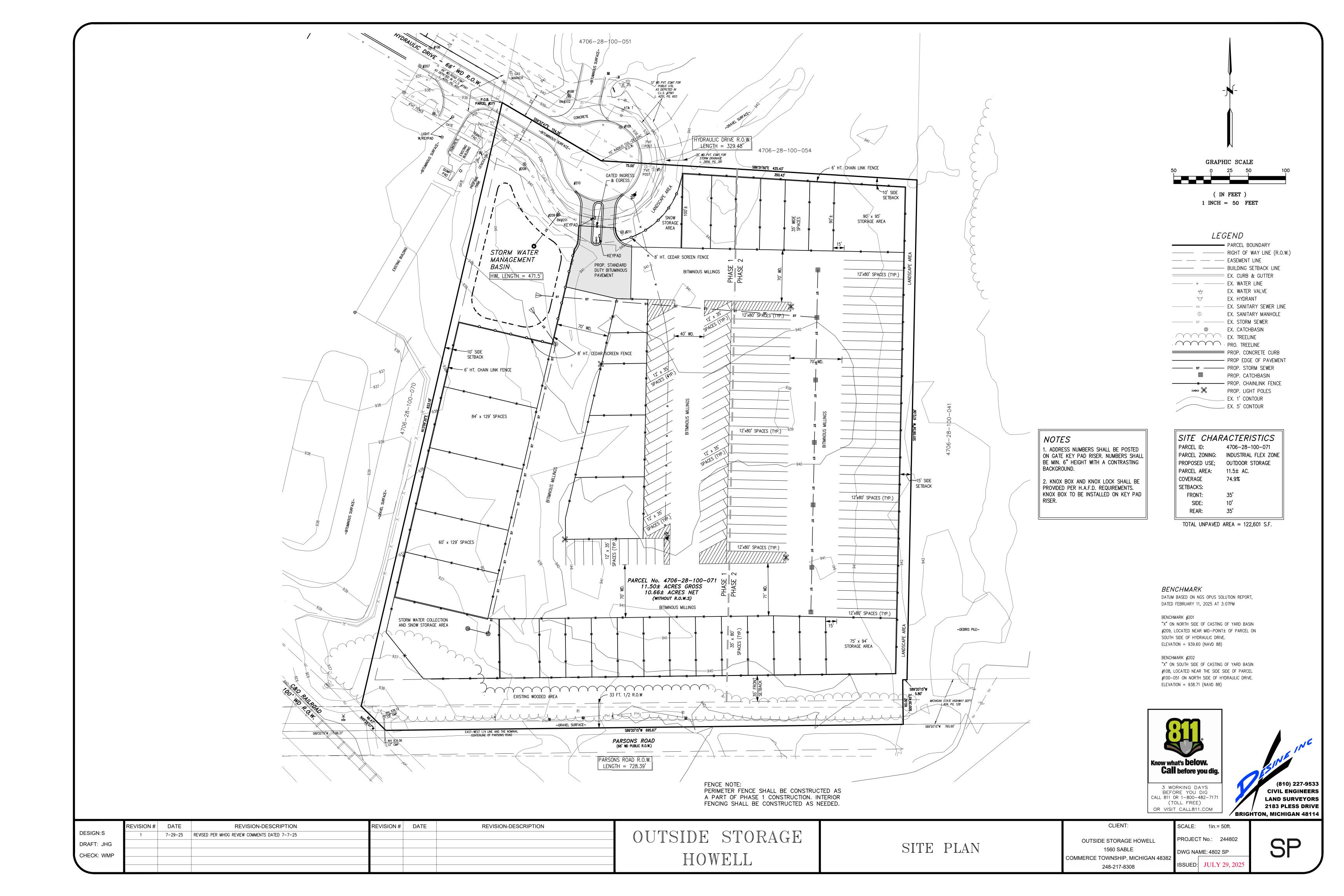
PRINT: JULY 29, 2025

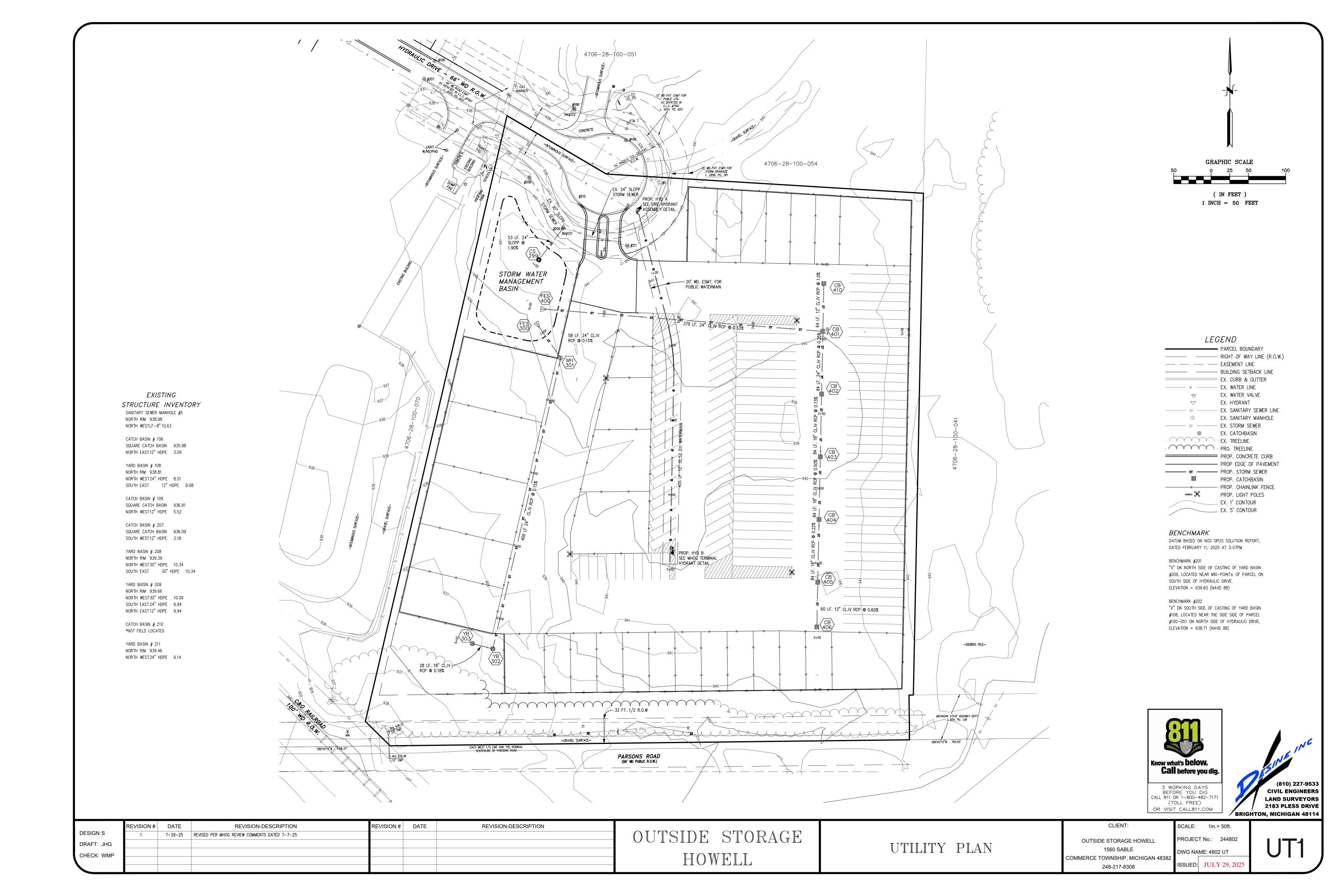
ENGINEER/SURVEYOR

DESINE INC. 2183 PLESS DRIVE BRIGHTON, MICHIGAN 48114 PHONE: (810) 227-9533 OWNER / DEVELOPER
OUTSIDE STORAGE HOWELL
1560 SABLE
COMMERCE TOWNSHIP, MICHIGAN 48382



DESIGN:S	REVISION # DATE 1 7-29-25	REVISION-DESCRIPTION REVISED PER MHOG REVIEW COMMENTS DATED 7-7-25	REVISION # DATE	REVISION-DESCRIPTION	OTTSIDE STORAGE	EXISTING CONDITIONS	CLIENT:	SCALE: 1in.= 50ft. PROJECT No.: 244802	
DRAFT: JHG						AND	1560 SABLE	DWG NAME: 4802 EX	
CHECK: WMP					HOWELL	DEMOLITION PLAN	COMMERCE TOWNSHIP, MICHIGAN 48382 248-217-8308	ISSUED: JULY 29, 2025	



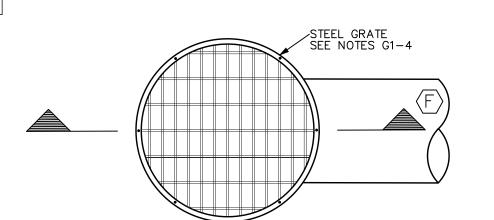


Design Crit	eria:	10 year ever	nt (I = 175/t +	25)	RCP n=	0.013	HDPE n=	0.011														
From	То	Inc.		Eqv.	Total	Т	ı	Q	Qa	Qt	Dia.	Slope	Slope	Length	Vel.	Time	Сар	H.G.	Ground	Elev.	Invert Ele	ev.
MH#	MH#	Acres		Area	Area	Time	Inch	(CIA)	(Additional	(Total flow)	of	pipe	H.G.	of	Flow	of	of	Elev.	Upper	Lower	Upper	Lower
CB# FES#	CB# FES#	"A"	"C"	100% CA	100% CA	Min.	Per	o f o	flow)	c.f.s.	pipe inch	0/	0/	line	full ft./sec.	flow min.	pipe c.f.s.	upper	end	end	end	end
Column -	Column -	Column	Column	Column	Column -	Column -	Hour Column -	c.f.s. Column ▼	Column =	Column -	Column1 -	Column1 -	Column1 -	Column' -	Column *	Column =	Column =	end Column19 =	Column2(Column2	Column22 -	Column2;
303	302	1.17	0.86	1.00	1.00	15.0	4.38	4.39	Column	4.39	18	0.18	0.17	28	2.52	0.2	4.46	934.83	937.00	937.00	933.24	933.19
302	301	1.17	0.86	1.00	2.01	15.2	4.35	8.74		8.74	24	0.15	0.15	400	2.79	2.4	8.76	934.78	937.00	938.14	932.79	932.19
301	300	0.00	0.00	0.00	2.01	17.6	4.11	8.25		8.25	24	0.15	0.13	58	2.79	0.3	8.76	934.08	938.14	932.00	932.09	932.00
410	401	0.90	0.90	0.81	0.81	15.0	4.38	3.54		3.54	12	1.00	0.99	64	4.54	0.2	3.56	937.44	940.00	940.00	936.45	935.81
406	405	0.67	0.90	0.60	0.60	15.0	4.38	2.64		2.64	12	0.60	0.55	60	3.51	0.3	2.76	937.76	940.00	940.00	936.70	936.34
405	404	0.55	0.90	0.50	1.10	15.3	4.34	4.77		4.77	18	0.22	0.21	84	2.79	0.5	4.93	937.43	940.00	940.00	935.94	935.75
404	403	0.55	0.90	0.50	1.59	15.8	4.29	6.83		6.83	18	0.50	0.42	84	4.20	0.3	7.43	937.26	940.00	940.00	935.75	935.33
403	402	0.55	0.90	0.50	2.09	16.1	4.26	8.89		8.89	18	0.73	0.72	84	5.08	0.3	8.97	936.90	940.00	940.00	935.33	934.72
402	401	0.55	0.90	0.49	2.57	16.4	4.23	10.88		10.88	24	0.25	0.23	84	3.59	0.4	11.27	936.30	940.00	940.00	934.32	934.11
401	400	0.54	0.90	0.50	3.88	16.8	4.19	16.25		16.25	24	0.53	0.52	379	5.24	1.2	16.47	935.95	940.00	932.00	934.01	932.00

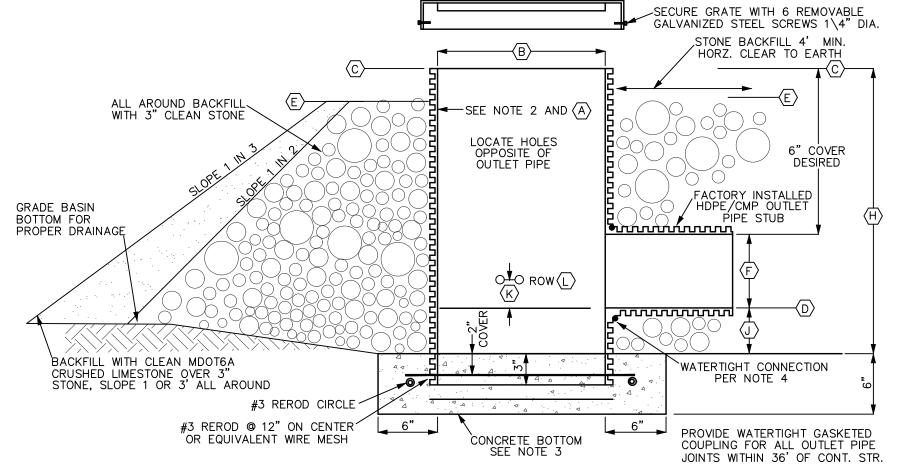
	BASIN L					
FOREBAY CONTROL STRUCTURE CALCULATIONS						
Tributary Area	:	A =	9.20 Acres			
Compound Ru	noff Coefficient :	C =	0.84			
Orifice Flow C	oefficient :	c =	0.60			
Allowable Out	flow Rate :	Qa =	0.31 CFS			
Forebay Stora	ge Volume =	Vf =	34,059 CF			
Low Water Le	vel:	LWL =	932.00			
Forebay Stora	ge Elevation :	Xf =	935.74			
orebay Outlet Co	ontrol:					
Qf =	Vf * (1 / 24 hrs) * (1 / 3600 sec) =		0.3942 CFS			
Hf =	Xf - LWL =		3.69 FT			
Af =	Qf / (c * SQRT(2 * 32.2 * Hf)) =		0.0426 SF			
D =	Orifice Diameter		1.250 inch dia.			
Nf =	Af / D		5.0 Orifices			
Use Nf =	5 Orifices at Centerline Elevation =	932.05				

	PROPO	SED FOREBAY	VOLUME	
		FOREBAY		
		CONTOUR AREA	FOREBAY BASIN	
POND DEPTH (FT)	ELEV.	(SF)	VOLUME (CF)	
0	929.00	1,830		
1.0	930.00	2,861		
2.0	931.00	4,128		
3.0	932.00	5,563	0	
4.0	933.00	7,250	6,388	
5.0	934.00	9,154	14,571	
6.0	935.00	11,322	24,790	
7.0	936.00	13,674	37,270	
8.0	937.00	16,229	52,203	

Forebay Storage E	Elevation Ca	lculation:		
	ELEV.	VOLUME	VOLUME REQ.	ELEVATION
Lower	935.00	24,790	34,059	935.74
Higher	936.00	37,270		



	KEY	
	CONTROL STRUCTURE DESIGNATION	CS-299
Α	MATERIAL TYPE , SEE NOTE 2	SLCPP
В	STRUCTURE INSIDE DIAMETER	4' DIA
С	RIM ELEVATION WITHOUT GRATE	935.74
D	INVERT ELEVATION OUTLET PIPE	932.00
Ε	TOP OF STONE ELEVATION	935.50
F	OUTLET PIPE DIAMETER	24"
G	OUTLET PIPE MATERIAL	SLCPP
Н	STRUCTURE HEIGHT WITHOUT GRATE	5.74'
J	SUMP HEIGHT	2'
K	CENTERLINE HEIGHT OF BOTTOM ROW HOLES MEASURED ABOVE "D"	932.05
	NUMBER OF HOLES IN BOTTOM ROW	5



BASIN CONTROL STRUCTURE (CS) NOT TO SCALE

CONTROL STRUCTURE NOTES:

1. Contractor shall locate control structure, outlet pipe with rip rap as shown on plan. Control structure shall be factory built by:

Larson Co. 888-952-7755 for CMP or HDPE

L.T. Elsey 800-426-3604 for HDPE

Jenson Supply 810-648-3000 for CMP

St. Regis Culverts 517-543-2313 for CMP

Or Equal

2. Structure material type is shown in key (A):

— CMP shall be AASHTO M36 with corrosion resistant coating

— RCP shall be ASTM C478 precast concrete with gasketed joints

— HDPE shall be AASHTO M294 Type S, corrugated and smooth lined Minimum structure diameter is 24"; use 48" diameter when height (H) less sump (J) exceeds 4 feet.

3. A 3000 PSI air entrained concrete base is required. The concrete base shall be secured to the control structure with a full strength watertight connection, equivalent to drawing.4. Provide watertight connection between outlet pipe and control structure as follows:

A. For CMP outlet pipe from a CMP structure: factory connect a CMP pipe stub with full strength welds all around and paint coated.

Alternately, provide a bolted saddle with watertight gasket by St. Regis or equal.

B. For RCP C-76 outlet pipe OR HDPE outlet pipe/finger drains from a CMP structure: seal outside joint with 18" thick 2500 PSI cast-in-place concrete donut all around. Seal inside joint with a 2" bead of bitumastic tar.

C. For HDPE outlet pipe from a HDPE structure: seal both outside and inside joints with a full strength PE weld all around.
5. As part of control structure installation, wrap outlet holes with temporary filter fabric per Note 8 on Erosion Control Sheet SE1. Then provide a temporary stone backfill as needed to stabilize control

structure during the work.

6. Remove temporary stone and install permanent stone around control structure after all the following: removal of sediment from basin, hard surfacing of roads, and establishment of grass turf around basin. Wrap outside of stone with nonwoven geotextile fabric, 4 oz/syd

7. When directed by Engineer or Agency, Contractor shall temporarily plug outlet holes or restrictor during construction. Remove plugs or

plug outlet holes or restrictor during construction. Remove plugs or sand bags upon completion of project, incidental to the work.

8. Create a berm over outlet pipe as needed to provide 30" of cover.

GRATE NOTES:

G-1 Provide a factory made grate sized to fit over the outside edge of the control structure. Weld all joints full strength per current AWS code. Factory coat grating with a bitumastic paint. By Best Window Guard Co., Detroit, 313—838—4627 or equivalent.

G-2 For 30" diameter and larger grates:
A. 0.75" x 0.25" steel bars at 2" or less on center with perpendicular 0.25" diameter stringers at 4" on center.
B. Alternate: Make a grid with 0.5" round steel bars at 2" on center each way
C. For RCP structures, use cast iron casting, MDOT cover E, unless noted otherwise on plan.

OUTSIDE STORAGE

HOWELL

D. Do not use rerod.

G-3 For 27" diameter and smaller grates:

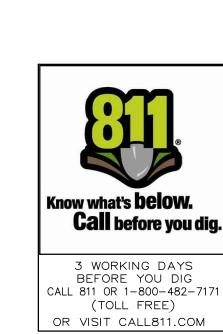
Use heavy duty expanded metal grating, "PHEMG", with 0.25"

G-4 Wrap all grates with a 0.25" x 3" bent steel bar, sized to fit over outside of control structure.

Tributary Area Compound Ru	(A) = noff Coefficient (C) =	9.20 0.84	Acres	
<u>W</u>	ater Quality Control Volu	<u>ume:</u>	(3,630)(A)(C) =	28,053 cf
<u>C#</u>	nannel Protection Volum	<u>e:</u>	(4,719)(A)(C) =	36,468 cf
<u>Ex</u>	tended Detention Volum	<u>ie:</u>	(6,897)(A)(C) =	53,300 cf
<u>Fo</u>	orebay Volume: Downstream	Infiltration	Provided = V_{wq} =	28,053 cf
<u>10</u>	0 Year Storm Inlet Rate	<u>calculatio</u>	<u>on:</u>	
	T _c =	1	8.4 (from storm sew	er calculations)
			Q _{100in} =	44.30 cfs
	0 Year Storm Outlet Rate owed Outlet Rate is lesser			te for the drain
	County Drain Res	tricted Rat	e (0.20 cfs/acre) =	1.84 cfs
	V	ariable Re	elease Rate = Q _{vrr} =	5.96 cfs
	ALLOWABLE 100 Y	EAR OUT	LET RATE = Q _{all} =	1.84 cfs
<u>10</u>	0 Year Required Storm		Volume calculation. urve Factor = R =	0.68
	100 Year	Storage \	$Volume In = V_{100IN} =$	146,716.08 cf
	Calculated 100 Yea	ar Storage	Volume = V _{100det} =	100,232 cf
	Portion of Commu	nity Deten	tion Storage Volume:	
		[10.66 Ac./4	7.67 Ac.] X295,917 cu.ft. =	66,173 cf
	REQUIR	ED VOLU	ME: V _{100det} > V _{ed} =	34,059 cf

Extended Detention Discharge Rate: Ved/172,800 =

DETENTION VOLUME CALCULATION





	REVISION#	DATE	REVISION-DESCRIPTION	REVISION	# [DATE	REVISION-DESCRIPTION
DESIGN:S	1	7-29-25	REVISED PER MHOG REVIEW COMMENTS DATED 7-7-25				
DRAFT: JHG							
CHECK: WMP							
STILLSTE WINI							

CONTROL STRUCTURE NOTES & CALCULATIONS CLIENT:

OUTSIDE STORAGE HOWELL

1560 SABLE

COMMERCE TOWNSHIP, MICHIGAN 48382

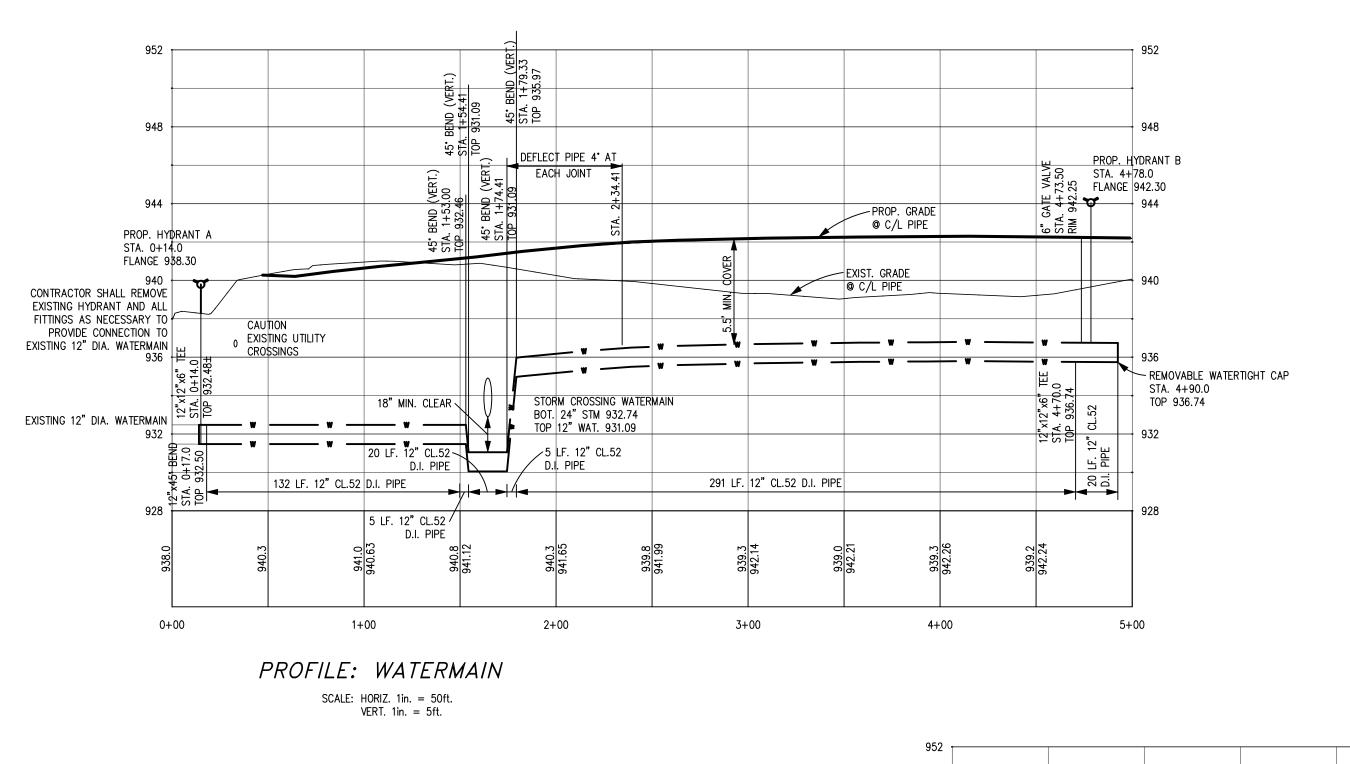
248-217-8308

0.308 cfs

SCALE: NONE
PROJECT No.: 244802

DWG NAME: 4802 UT
ISSUED: JULY 29, 2025

UT2



936 CS-299 4' DIA. HGL LINE, TYP. RCP @ 0.18% RIM 935.74 24" N. 932.00 58 LF. 24" CL.IV 400 LF. 24" CL.IV RCP @ 0.15% 932 EX. YB-209 53 LF. 24" CL.IV SUMP 930.00 R¢P @ 0.15% PROP. 24" S. 930.99 INV. 932.00 4' DIA. 4' DIA. EX. 12" N. 929.72 EX. 24" E. 929.67 RIM 938.14 RIM 937.00 18" W. 933.19 18" E. 933.24 SUMP 931.24 24" S. 932.19 24" N. 932.09 EX. 30' NW. 929.57 24" N. 932.79 SUMP 930.09 SUMP 930.79 928 928 0+00 1+00 2+00 3+00 4+00 5+00 6+00 6+92

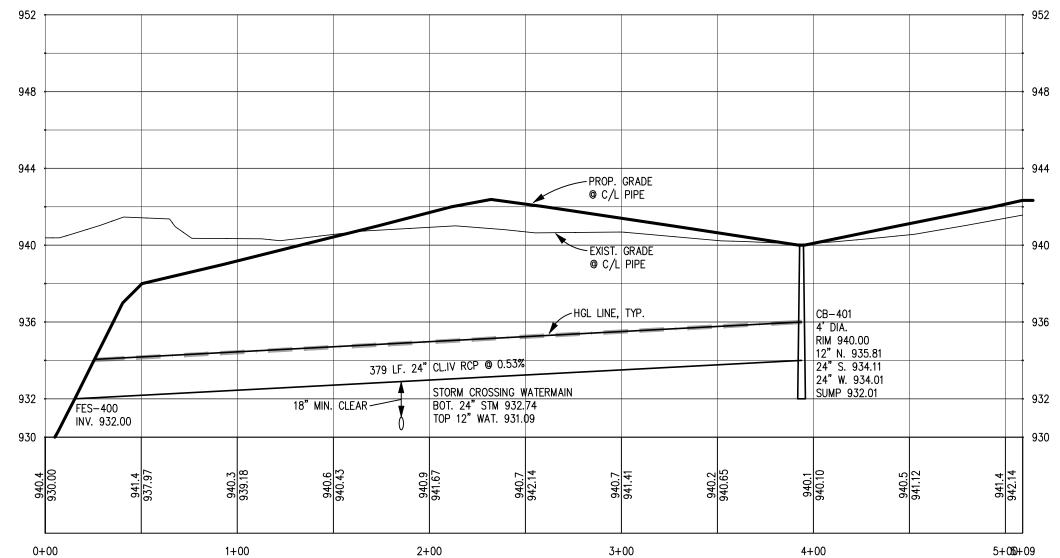
> PROFILE: YB-209 THRU YB-302 SCALE: HORIZ. 1in. = 50ft. VERT. 1in. = 5ft.

PER THE TEN STATE STANDARDS, ARTICLE 8.8.3 ONE FULL 20-FOOT LENGTH OF WATERMAIN SHALL BE USED WHENEVER STORM SEWER OR SANITARY SEWER IS CROSSED, AND THE PIPE SHALL BE CENTERED ON THE CROSSING, IN ORDER TO ENSURE 10-FOOT SEPARATION BETWEEN WATER MAIN AND SEWERS.

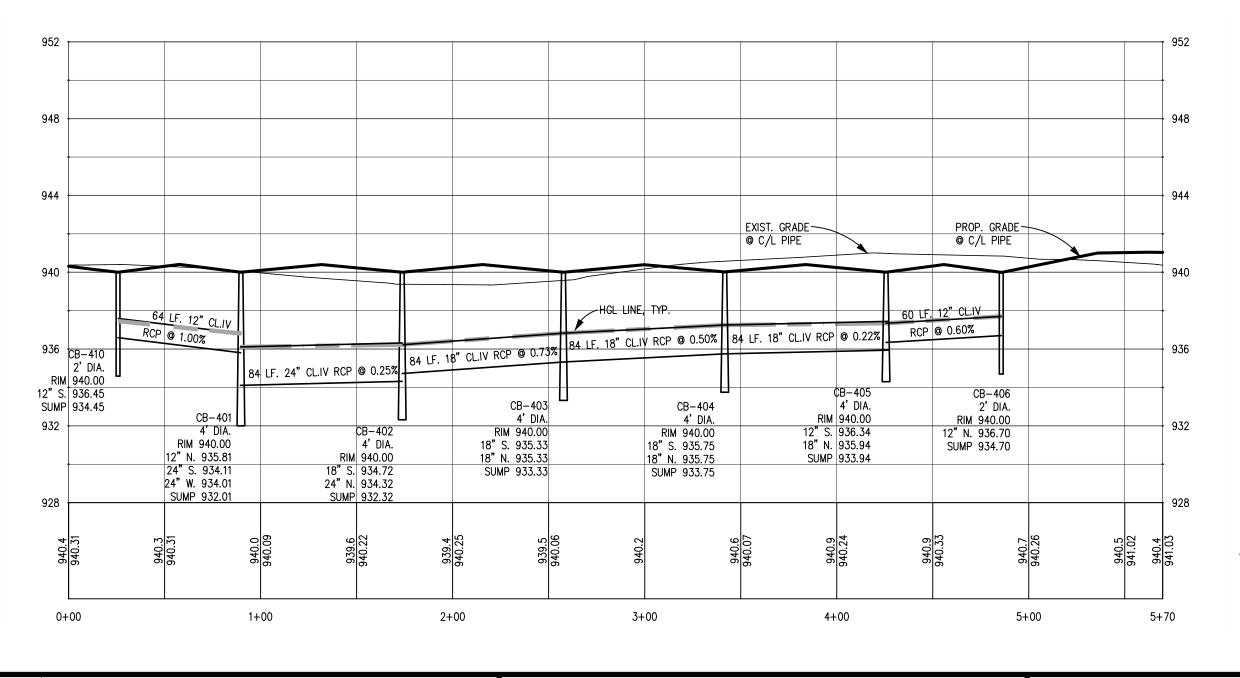
1. WATER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT MARION, HOWELL, OCEOLA, AND GENOA (MHOG) DESIGN STANDARDS

2. ALL WATERMAIN SHALL BE DUCTILE IRON PIPE (DIP) WITH POLYETHYLENE (P.E.) ENCASEMENT IN ACCORDANCE WITH AWWA C105/ANSI 21.5 AND TRACER WIRE INSTALLED.

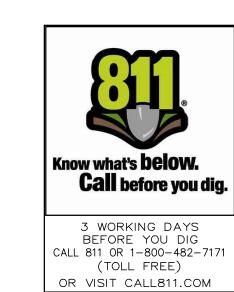
3. ALL HYDRANTS MUST BE CONSTRUCTED 3' MINIMUM BEHIND THE BACK OF CURB.



PROFILE: FES-400 THRU CB-401 SCALE: HORIZ. 1in. = 50ft. VERT. 1in. = 5ft.



PROFILE: CB-411THRU CB-406 SCALE: HORIZ. 1in. = 50ft. VERT. 1in. = 5ft.



(810) 227-9533 **CIVIL ENGINEERS** LAND SURVEYORS 2183 PLESS DRIVE BRIGHTON, MICHIGAN 48114

DESIGN:S	
DRAFT: JHG	
CHECK: WMP	

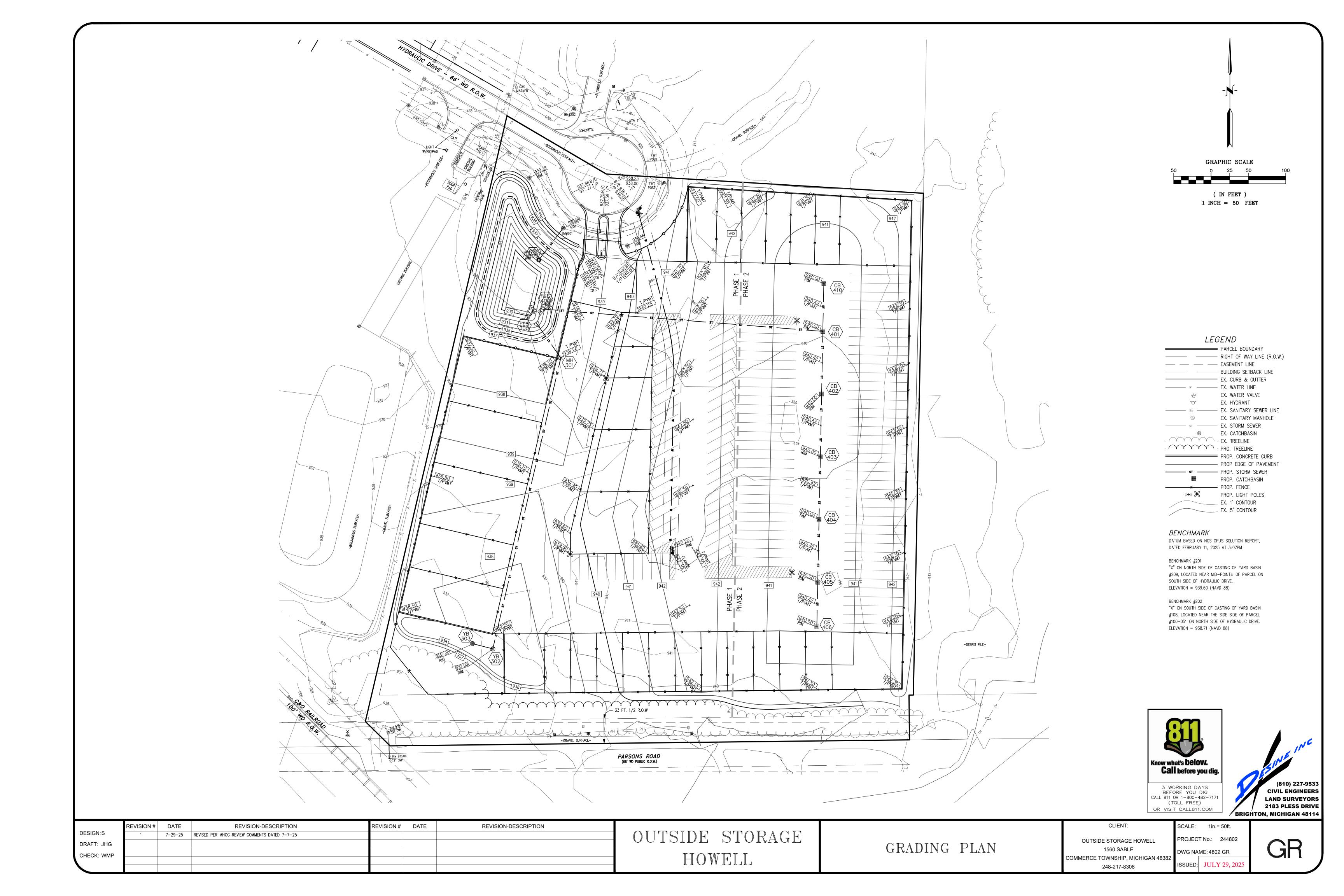
REVISION-DESCRIPTION REVISION-DESCRIPTION REVISION # DATE 7-29-25 REVISED PER MHOG REVIEW COMMENTS DATED 7-7-25

OUTSIDE STORAGE HOWELL

UTILITY PROFILES

CLIENT: OUTSIDE STORAGE HOWELL 1560 SABLE COMMERCE TOWNSHIP, MICHIGAN 48382 248-217-8308

SCALE: 1in.= 50ft. PROJECT No.: 244802 DWG NAME: 4802 UT ISSUED: **JULY 29, 2025**



MAINTENANCE NOTES FOR SOIL EROSION CONTROL MEASURES:

ISOMETRIC VIEW

FITS ROUND GRATES FROM 24" DIA. THROUGH 40" DIA.

FITS RECTANGULAR GRATES WITH A DIACONAL

BETWEEN 28" AND 41" $(a^2 + b^2 = c^2)$

TO INSTALL: TUCK FABRIC UNDER GRATE.

A SAFETY HAZARD TO TRAFFIC.

REINFORCED

CORNERS

EFFECTIVENESS AND REDUCE MAINTENANCE REQUIREMENTS.

60 <u>yard inlet filter cage</u>

COULD RISE IF THE INLET WERE BLOCKED ENTIRELY

FITS SQUARE GRATES FROM 24" X 24" T HROUGH 36" X 36"

INLET PROTECTION SHALL BE INSTALLED AT THE TIME OF THE STRUCTURE IS SET.

REMOVE SEDIMENT IF IT ACCUMULATES TO ONE HALF THE HEIGHT OF THE CAGE.

THE AREA AROUND THE CAGE SHOULD BE AS FLAT AS POSSIBLE TO INCREASE

AS WITH ALL INLET PROTECTION DEVICES, CHECK TO SEE HOW DEEP THE WATER

DO NOT INSTALL IN LOCATIONS THAT COULD CAUSE PROPERTY DAMAGE OR POSE

58 INLET SEDIMENT FILTER

CAGE WRAPPED IN

GROTEXTILE TUCKED UNDER

CIRCUMFERENCE OF GRATE

-SILT SACK

-DUMPING

STRAPS

The Construction Site and all Soil Erosion Control Measures shall be inspected periodically in accordance with the appropriate local municipality/authority and the MDEQ NPDES rules and regulations. At a MINIMUM, inspections shall be performed once a week and within 24 hours following a storm event resulting in 1" of rainfall or greater. Inspections shall be performed throughout the duration of the construction process and until the site is completely stabilized. Following construction, the owner (or its assignee) shall periodically inspect all permanent soil erosion control measures to ensure proper operation.

MUD TRACKING CONTROL DEVICE / CONSTRUCTION ACCESS: Mud tracking control devices shall be inspected for significant mud accumulation and to ensure the access is not eroding into public rights of way or drainage features. Add additional layers of stone or remove and replace stone each time the stone becomes covered with mud. All sediment dropped or eroded onto public rights of way shall be removed immediately. Sweeping of the public rights or way and/or paved access route shall be performed as necessary to maintain the access route free of sediment and debris.

RETENTION BASIN: Retention basins shall be inspected to ensure erosion is not occurring along the inlet locations, banks and/or bottom of the basin and for sediment accumulation. Regular maintenance of the basin includes routine mowing of the buffer/filter strip, side slopes and basin floor and removal of litter and debris accumulation. Address vegetation and/or erosion concerns as soon as weather permits. Sediment accumulation shall be removed at least once a year. Sediment shall be removed only when the surface is dry and "mud-cracked". Light equipment must be used to avoid compacting of soils. After removal of sediment, the infiltration area shall be deep tilled to restore infiltration rates. More frequent tilling may be necessary in areas where soils are only marginally permeable. Sediment that is removed shall be disposed of offsite or at an upland area and stabilized so that it does not re-enter the drainage course.

SEEDING: Newly seeded areas shall be inspected until substantial vegetative growth is obtained. Seeded areas shall be inspected to ensure erosion is not occurring in the seeded area and vegetative growth is promoted. Eroded areas shall be finish graded as necessary to removal erosion channels or gulleys and new seed placed as soon

SILT FENCE: Silt fencing shall be inspected for soil accumulation/clogging, undercutting, overtopping and sagging. Soil accumulation shall be removed from the face of the silt fence each time it reaches half the height of the fence. Removed sediment shall be disposed of in a stable upland site or added to a spoils stockpile. When undercutting occurs, grade out areas of concentrated flow upstream of the silt fence to remove channels and/or gulleys and repair or replace silt fence ensuring proper trenching techniques are utilized. Silt fencing, which sags, falls over or is not staked in shall be repaired or replaced immediately. Silt fencing fabric, which decomposes or becomes ineffective, shall be removed and replaced with new fabric immediately. Silt fencing shall be removed once vegetation is well established and the up-slope area is fully stabilized.

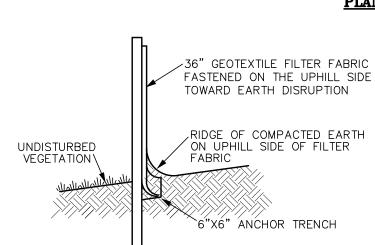
STOCKPILES: Temporary and permanent topsoil and spoils stockpiles shall be seeded to promote vegetative growth. Stockpiles shall be inspected to ensure excessive erosion has not occurred. When runoff or wind erosion is evident, reduce the side slopes of the stockpile or stabilize the stockpile with pieces of staked sod laid perpendicular to the slope. When filter fencing is used around a stockpile, the fencing shall be inspected to ensure piping has not occurred under the fencing and to ensure the fencing has not collapsed due to soil slippage or access by construction equipment. Repair or replace damaged fencing immediately. Berms at the base of stockpiles, which become damaged, shall be replaced.

STANDPIPE: Prior to project completion and approval by Livingston County Drain Commissioner's office, stone around the standpipe structure shall be refreshed with

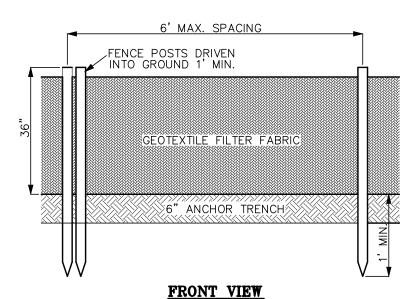


Map Ur	nit Legend		
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ву	Brookston loam, 0 to 2 percent slopes	0.5	3.4
CvraaB	Conover loam, 0 to 4 percent slopes	8.8	59.3
МоВ	Wawasee loam, 2 to 6 percent slopes	1.3	8.9
MrB	Miami-Conover loams, 2 to 6 percent slopes	4.2	28.4
Totals for Area of Interest		14.8	100.0

FENCE POST SILT FENCE JOINT FABRIC TO BE WRAPPED PLAN VIEW



SECTION A-A

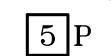


55 SILT FENCE

1. REPAIR AND REPLACE SILT FENCE AS NEEDED,

- 2. FIELD LOCATE SILT FENCE TO FOLLOW CONSTANT CONTOUR ELEVATIONS.
- 3. OVERLAP FENCES AT JOINTS.
- 4. INSTALL FILTER BERM AT LOW POINTS WHERE INDICATED ON PLANS.

-SEED AND MULCH FINISH GRADE-3" OF PREPARED TOPSOIL -PREPARED SUBGRADE



- 1. Seed mixture shall consist of
- 10% Kentucky Blue Grass
- 20% Perennial Ryegrass 30% - Hard Fescue
- 40% Creeping Red Fescue Seed shall be uniformly applied at a rate of 210 pounds per acre.
- 2. Topsoil shall be a dark, organic, natural surface soil free of clay lumps, peat or muck, subsoil, noxious weeds or other foreign matter such as roots, sticks, rocks over 1/2" in diameter and not frozen or muddy. Material shall meet with approval of the Engineer.
- 3. Straw mulching shall be a minimum depth of 3" applied at a rate of 1.5 to 2 tons per acre. All mulching must have a tie down, such as tackifier, net binding, etc.
- 4. Fertilizer shall be evenly applied at a rate which will provide 150 pounds per acre of chemical fertilizer nutrients, in equal portions, (10-10-10), of Nitrogen, Phosphoric Acid and Potash.
- 5. Hydroseeding is not acceptable for slopes exceeding 1%. In such cases, stabilization shall be done with seed and straw mulch with a tackifier.
- 6. The earthen areas to receive topsoil shall be at the required grade and properly trimmed. Topsoil shall be spread on the prepared areas to a depth of 3 inches. After spreading, any large clods and lumps of topsoil shall be broken up and pulverized. Stones and rocks over 1/2" in diameter, roots, litter, and all foreign matter shall be raked up and disposed of by the the contractor. Place topsoil only when it can be followed within a reasonable time by seeding operations.

NOTES:

HYDRAULIC

LOCATION MAP

LEGAL DESCRIPTION OF RECORD

(Hydraulic Drive) the following four courses: 1) N89°04'54"E 178.89 feet.

3) S34°02'30"E 203.08 feet,

Reference: Certified Land Survey as recorded in

NOT TO SCALE

Document No. 2024S-0065, Livingston County Records

angle of 56°52'37" and having a chord bearing S62°28'48"E 619.08 feet,

5) S59°33'47"E 465.29 feet to the PLACE OF BEGINNING;

angle of 25°31'17" and having a chord bearing S46°48'08"E 176.70 feet and

wide road easement, also being subject to easements and restrictions of record, if any.

PARCEL No. 4706-28-100-071 11.50± Acres (Net 10.66± Acres without Right-of-Ways)

Commencing at the West 1/4 Corner of Section 28, Town 3 North, Range 4 East, Howell Township, Livingston County, Michigan; thence N00°55'07"W 1666.00 feet along the West line of said Section and the

centerline of Burkhart Road; thence along the centerline of a 66 foot wide permanent road easement

thence S59°33'47"E 154.26 feet; thence S86°31'50"E 425.43 feet; thence S1°08'59"W 672.06 feet;

thence S89°20'15"W 5.80 feet; thence S00°39'45"E 60.00 feet; thence S89°20'15"W 695.67 feet; thence

N45°25'07"W 46.47 feet; thence N13°09'30"E 833.18 feet to the Place of Beginning. Containing 11.50 acres, more or less. Subject to and together with a 66 foot wide permanent road easement (Hydraulic

Drive) as described in Certified Land Survey #7561 recorded in Liber 4251, Page 603, Livingston County

Michigan over the Northwesterly portion as occupied, also being subject to and together with a 35 foot wide private easement for storm drainage as previously described in said Certified Land Survey #7561, also

subject to a 12 foot wide private easement for public utilities lying adjacent to and exterior said 66.00 foot

2) Southeasterly 645.25 feet along the arc of a 650.00 foot radius curve to the right through a central

4) Southeasterly 178.17 feet along the arc of a 400.00 foot radius curve to the left through a central

- 1. The permit is not for individual building units, It is required that temoprary stabilization of the entire site be completed and approval from the Livingston County Drain Commissioner's office be obtained prior to the issuance of permits for individual building
- 2. Any dewatering required shall have a dewatering plan submitted prior to starting any activity that may require EGLE approval.

							ruction F						
Construction and Work Categories	Month	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Mar-26	Apr-20
1) Obtain Permits													
2) Install Initial SESC Measures													
3) Inspect & Maintain SESC Measures													
4) Demoliton													
5) Costruction and Stabilization of Basins L, M & N													
6) Earth Work													
7) Underground Utility Work													
8) Site Lighting Work													
9) Curb, Sidewalk & Pavement Work													
10) Backfill & Finsh Grade Work													
11) Landscaping													
12) Topsoil, Seed & Mulch													
13) Remove Temporary SESC Measures													

SOIL EROSION CONTROL AND CONSTRUCTION SEQUENCE: 1. Obtain all necessary Soil Erosion and Sedimentation Control related permits from the appropriate Local, County and/or State Agencies. Refer to the General Notes on the project plans for additional requirements.

2. Prior to commencement of any earth disruption install Silt Fence and Mud Tracking Control Device(s) in accordance with the Soil Erosion and Sedimentation Control

3. Maintain all soil erosion and sedimentation control measures on a regular basis through the duration of the project. Inspect all measures weekly and following each storm

4. Construct Retention/Detention and Sedimentation Basins, including associated spillways, in accordance with the project plans. Finish grade and establish vegetative growth in Retention/Detention and Sedimentation Basins and ring the top of the basins with silt fence to protect the basin and basin slopes, prior to massive earth disruption. Install temporary Soil Erosion Control Measures as necessary to stabilize Retention/Detention and Sedimentation Basins

5. Strip and stockpile topsoil. Perform mass grading and land balancing. Install appropriate Soil Erosion Control Measures in accordance with the Soil Erosion and

6. Install proposed underground utilities. (i.e.; storm and sanitary sewer, water main, etc.) Install appropriate Soil Erosion Control Measures in accordance with the Soil Erosion and Sedimentation Control Plan. 7. Excavate and expose the existing water main stub to connect new water main. Stockpile the top 12" of topsoil separately and use to backfill the top 12" portion of the

8. Construct roadways and/or parking areas. Install appropriate Soil Erosion Control Measures in accordance with the Soil Erosion and Sedimentation Control Plan. 9. Backfill and finish grade all disturbed areas outside of pavement.

10. Install all landscape work, including trees, shrubs.

11. Perform final restoration, including placement of topsoil and establishment of vegetative growth outside of pavement.

12. Following establishment of sufficient vegetative ground cover and receipt of approval from the Permitting Agency, remove all temporary Soil Erosion Control Measures, clean all storm sewer structures and repair all permanent Soil Erosion Control Measures

TOTAL DISTURBED AREA = 10.2 ACRES DISTANCE TO NEAREST WATER = 300 FT.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

- 1. The Soil Erosion and Sedimentation Control Specifications of the appropriate Local, County and/or State Agencies are a part of this work. Refer to the General Notes on the Project Plans for additional requirements
- 2. The Soil Erosion and Sedimentation Control (SESC) Permit Holder shall be responsible for compliance with the SESC Permit requirements for the duration of the project and until receipt of final approval from the Permitting Agency. For any site with an earth disturbance area of 1 acre or greater, the SESC Permit Holder shall retain a Certified Storm Water Operator in accordance with the SESC Permit requirements. The Certified Storm Water Operator shall perform routine inspections of the site and the SESC measures and file inspection reports in accordance with the SESC permit requirements. For any site with an earth disturbance area of 5 acres or greater, the SESC Permit Holder shall file National Pollutant Discharge Elimination System (NPDES) Notice of Coverage Form with the State DEQ prior to any earth disruption.

DISTURBANCE

†STOOKPILE

- 3. The Contractor shall install the appropriate Soil Erosion Control Measures in accordance with the Project Plans prior to massive earth disruption, including but not limited to; silt fence, mud tracking control mats and sediment filters on existing storm sewer structures. Demolition work may be necessary prior to installation of some soil erosion control measures. In such cases, postpone installation of affected soil erosion control measures until immediately following demolition work. Refer to the Project Plans and the Soil Erosion Control and Construction Sequence for additional requirements.
- 4. The Contractor shall schedule work so as to minimize the period of time that an area is exposed and disturbed. The Contractor shall observe the grading limits and limits of disturbance in accordance with the Project Plans. The Contractor shall maintain an undisturbed vegetative buffer around the work when shown on the Project Plans.
- 5. The Contractor shall install and maintain Soil Erosion Control Measures in accordance with the Project Plans during the appropriate phases o construction. The Project Plans show the minimum requirements for Soil Erosion Control Measures. The Contractor shall install additional Soil Erosion Control Measures as necessary due to site conditions and as directed by the Permitting Agency and/or Engineer. The Contractor shall perform routine inspection and maintenance of all Soil Erosion Control Measures to ensure compliance with the permit requirements and proper operation of the Soil Erosion Control Measures.
- 6. The Contractor shall strip and stockpile topsoil from all areas of proposed disturbance. Topsoil stockpiles shall be located in accordance with the Project Plans. Topsoil stockpiles shall be stabilized with vegetative growth (or matted with straw during the non-growing season) to prevent wind and water erosion. A temporary diversion berm and/or silt fence shall encompass all earthen material stockpiles, including but not limited to topsoil, sand and gravel.
- 7. The Contractor shall install Soil Erosion Control Measures associated with the proposed storm sewer system during storm sewer construction. Inlet structure filters, consisting of Silt Sack or equivalent for curb inlets and Sed-cage or equivalent for yard basins, shall be installed immediately following completion of each storm inlet structure. Riprap shall be installed immediately following the installation of each flared end section with the following exception: Storm drain outlets that do NOT empty into a Retention, Detention or Sedimentation Basin shall have a temporary 5' wide x 10' long x 3' deep sump installed at the termination of the storm sewer. Upon completion of the stabilization work, the sump area shall be filled and riprap shall be installed in accordance with the Project Plans.
- 8. The Contractor shall install filter stone around the storm basin control structure(s) in accordance with the Project Plans immediately following installation of the control structure(s). The filter stone shall be monitored for sediment build up. The filter stone may need to be cleaned and/or replaced as site conditions require and as directed by the Permitting Agency and/or the Engineer.
- 9. All disturbed areas outside of paved areas shall be restored within 15 days of finish grading. Temporary stabilization is required for any area where activity ceases for more than 30 days and prior to winter. Proposed vegetative areas shall be restored with a minimum of 3-inches of topsoil, then seeded and mulched, unless noted otherwise on the Project Plans. During the non-growing season, temporary stabilization shall be provided using straw matting or as directed by the Permitting Agency and/or the Engineer.

Seeding, Fertilizer and Mulch Bare Ground Ratio: This information is provided as minimum guidance for acceptable application rates. Actual amounts depending on soil conditions and site

Top-Soil 3 inches in depth. Grass Seed 210 lbs. per acre.

Fertilizer 150 lbs. per acre. **Straw Mulch** 3" in depth 1.5 to 2 tons per acre

topography shall be detailed on the construction plans.

(All mulch must have a tie down, such as tackifier, net binding, etc.) Hydro-Seeding: Hydro-seeding is not acceptable for slopes exceeding 1%, in such cases; stabilization shall be done with seed and straw

mulch with a tackifier.

10. Following complete site restoration and stabilization; sediment shall be removed from all storm sewer structures, paved areas and storm basins. The SESC Permit Holder shall contact the Permitting Agency to request closure of the SESC Permit. For any site with an earth disturbance area of 5 acres or greater, the SESC Permit Holder shall file a NPDES Notice of Termination Form with the State DEQ

—— —— EASEMENT LINE ---- BUILDING SETBACK LINE EX. CURB & GUTTER — w — EX. WATER LINE EX. WATER VALVE EX. HYDRANT EX. SANITARY SEWER LINE EX. SANITARY MANHOLE EX. CATCHBASIN EX. TREELINE PRO. TREELINE PROP. CONCRETE CURB —— PROP EDGE OF PAVEMENT ——— PROP. STORM SEWER PROP. CATCHBASIN × PROP. FENCE PROP. LIGHT POLES EX. 1' CONTOUR EX. 5' CONTOUR

(IN FEET)

LEGEND

PARCEL BOUNDARY

1 INCH = 80 FEET

BENCHMARK

DATUM BASED ON NGS OPUS SOLUTION REPORT, DATED FEBRUARY 11, 2025 AT 3:07PM

BENCHMARK #201

"X" ON NORTH SIDE OF CASTING OF YARD BASIN #209, LOCATED NEAR MID-POINT± OF PARCEL ON ELEVATION = 939.60 (NAVD 88)

BENCHMARK #202

"X" ON SOUTH SIDE OF CASTING OF YARD BASIN #108, LOCATED NEAR THE SIDE SIDE OF PARCEL #100-051 ON NORTH SIDE OF HYDRAULIC DRIVE. ELEVATION = 938.71 (NAVD 88)

COIL EDOCIONI CONTROL I ECENID

The nce		SOIL EROS	SION CONTROL LEGEND
e a	1	STRIPPING & STOCKPILING TOPSOIL	TOPSOIL MAY BE STOCKPILED ABOVE BORROW AREAS TO ACT AS A DIVERSION STOCKPILE SHOULD BE TEMPORARILY SEEDED
on, nay trol for	6	SEEDING WITH MULCH AND/OR MATTING	Facilitates establishment of vegetative cover Effective for drainageways with low velocity Easily Placed in Small Quantities by inexperienced personnel Should include prepared topsoil bed
the	14	AGGREGATE COVER	STABILIZES SOIL SURFACE, THUS MINIMIZING EROSION PERMITS CONSTRUCTION TRAFFIC IN ADVERSE WEATHER MAY BE USED AS PART OF PERMANENT BASE CONSTRUCTION OF PAVED AREAS
ffer of	55	GEOTEXTILE SILT FENCE	USES GEOTEXTILE AND POSTS OR POLES MAY BE CONSTRUCTED OR PREPACKAGED EASY TO CONSTRUCT AND LOCATE AS NECESSARY
soil nall per	58	INLET SEDIMENT FILTER	USES PREPACKAGED GEOTEXTILE SACKS FILTERS SEDIMENT FROM RUNOFF AT CATCH BASIN INLET EASY TO INSTALL AND MAINTAIN
vith ent	60	INLET FILTER CAGE	PREVENTS SEDIMENT FROM ENTERING STORM SYSTEM AT STRUCTURES USES GEOTEXTILE FABRIC AND PREFABED WIRE CAGE SILT FENCE CAN NOT BE USED







REVISION # DATE REVISION-DESCRIPTION REVISION # DATE REVISION-DESCRIPTION **DESIGN:WMP** REVISED PER MHOG REVIEW COMMENTS DATED 7-7-25 7-29-25 DRAFT: JHG CHECK: WMP

OUTSIDE STORAGE HOWELL

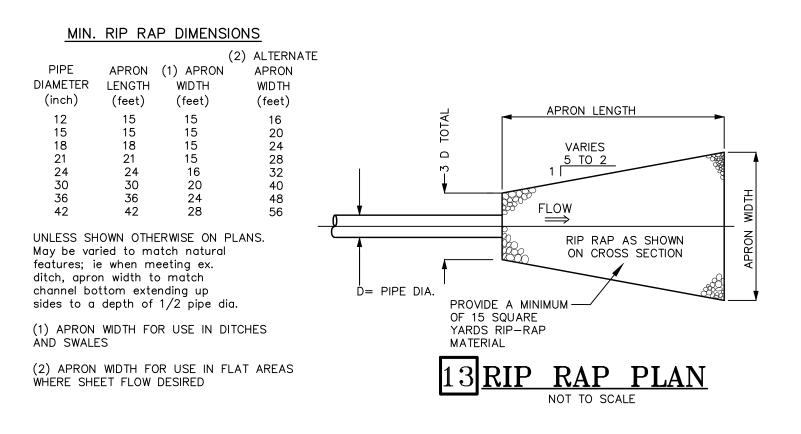
SOIL EROSION CONTROL PLAN

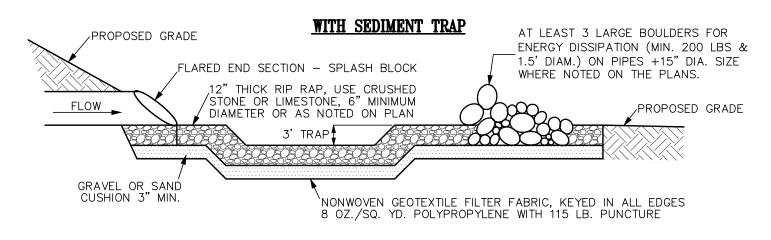
OUTSIDE STORAGE HOWELL 1560 SABLE COMMERCE TOWNSHIP, MICHIGAN 48382

CLIENT:

248-217-8308

SCALE: 1in.= 80ft. PROJECT No.: 244802 DWG NAME: 4802 SE |SSUED: | JULY 29, 2025



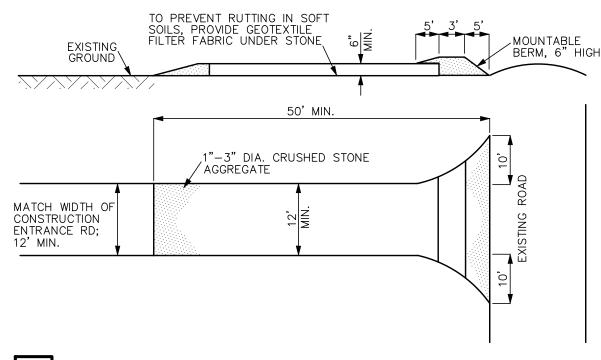


13 RIP RAP CROSS SECTION NOT TO SCALE

NOTES:

OTES:

- 1. GROUT RIP-RAP WITH A 6" THICK CEMENT SLURRY FOR SLOPES STEEPER THAN 20%; 5 ON 1.
- 2. PROVIDE ANIMAL GUARDS ON ALL STORM SEWER 15" DIA. OR GREATER, INCIDENTAL TO FES PIPE.
- 3. STORM DRAIN OUTLETS THAT <u>DO NOT</u> EMPTY INTO THE DETENTION BASIN SHALL HAVE INSTALLED A TEMPORARY SEDIMENT TRAP AT THE TERMINATION OF THE STORM SEWER (5'x10'x3' TYP.). UPON COMPLETION OF THE STABILIZATION WORK, THE SUMP AREA SHALL BE FILLED AND RIP—RAPPED.



14 MUD TRACKING CONTROL DEVICE

NOTE:
WHEN ACCEPTABLE TO ENGINEER, CONTRACTOR MAY INSTALL
STONE BELOW THE SUBGRADE ELEVATION; THUS STONE MAY
BE LEFT IN PLACE BELOW PAVEMENT.





	_					
	REVISION#	DATE	REVISION-DESCRIPTION	REVISION #	DATE	REVISION-DESCRIPTION
DESIGN:WMP	1	7-29-25	REVISED PER MHOG REVIEW COMMENTS DATED 7-7-25			
DRAFT: JHG						
CHECK: WMP						
OFFICER WIN						

OUTSIDE STORAGE HOWELL

SOIL EROSION CONTROL DETAILS

CLIENT:

OUTSIDE STORAGE HOWELL

1560 SABLE

COMMERCE TOWNSHIP, MICHIGAN 48382

248-217-8308

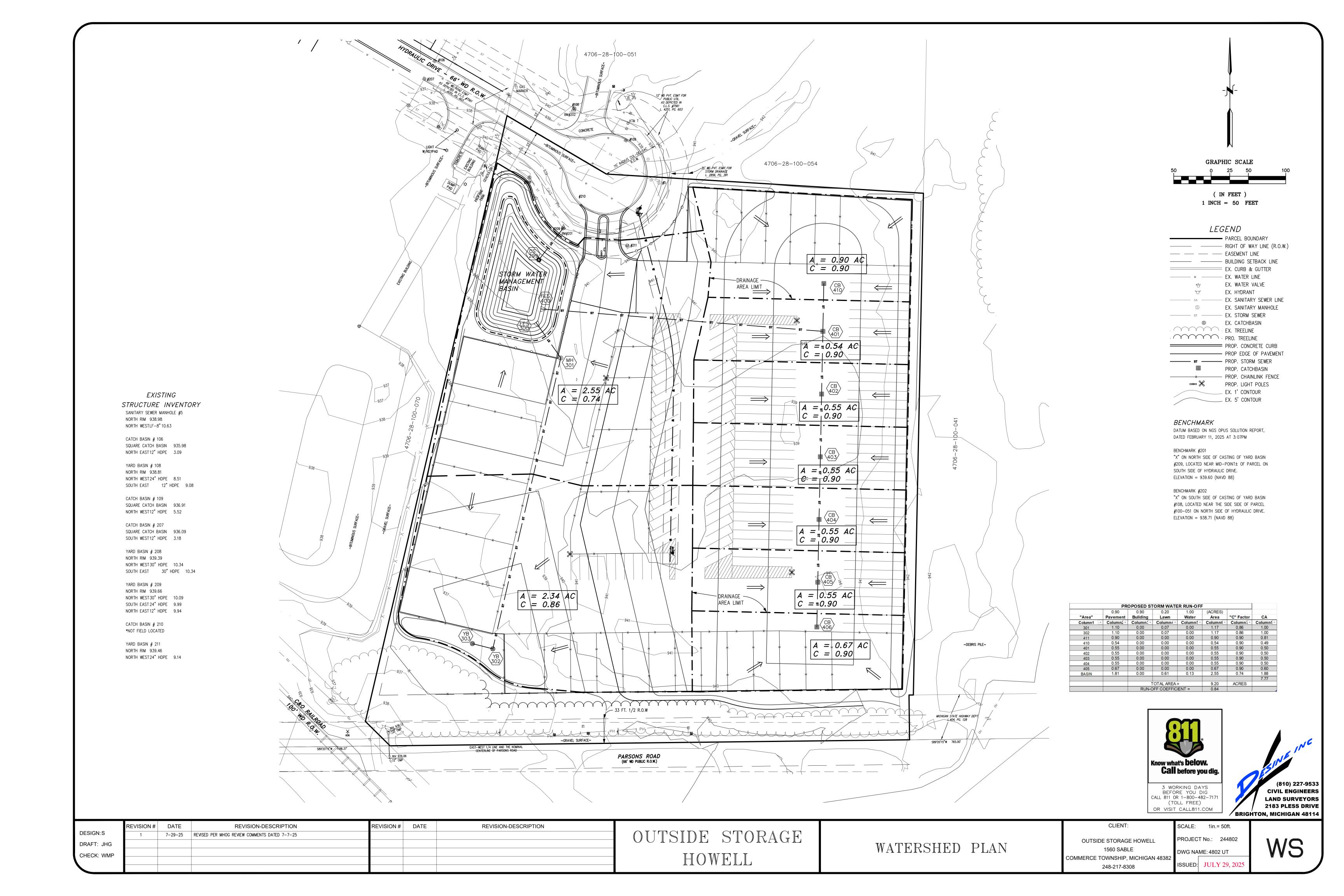
SCALE: AS NOTED

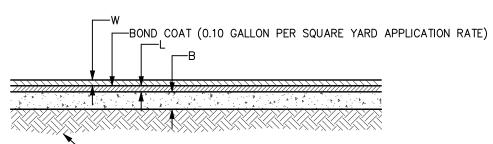
PROJECT No.: 244802

DWG NAME: 4802 SE

ISSUED: JULY 29, 2025

SE2





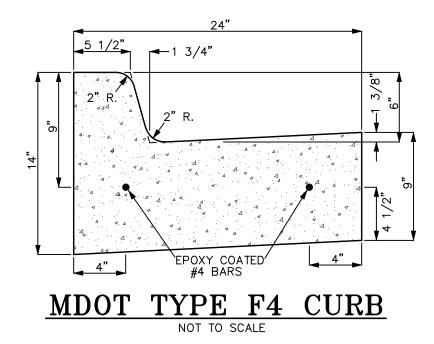
EXISTING ACCEPTABLE SUBGRADE

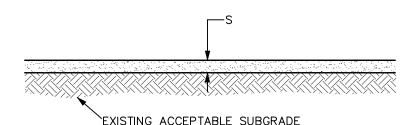
PAVEMENT CROSS SECTION

KEY	DESCRIPTION	MATERIAL SPECIFICATION	MINIMUM COMPACTED THICKNESS
W	WEARING COURSE	MDOT 4C	2"
L	LEVELING COURSE	MDOT 3C	2"
В	AGGREGATE BASE	MDOT 21AA GRAVEL	8"

BITUMINOUS PAVEMENT NOTES:

- 1. The construction specifications of the appropriate Local Municipality are a part of this work. Refer to the General Notes, Road and/or Parking Lot Construction Notes and Typical Road and/or Pavement Cross Section details on the project plans for additional requirements.
- 2. Unsuitable soils found within the 1 on 1 influence zone of the pavement, such as muck, peat, topsoil, marl, silt or other unstable materials shall be excavated and replaced up to the proposed subgrade elevation with MDOT Class III granular material compacted to 95% maximum unit weight, modified proctor.
- 3. Contractor shall proof roll prepared subgrade as directed by Engineer. Unacceptable areas of subgrade shall be undercut and replaced as directed by Engineer.
- 4. Owner/Developer may delay placement of the bituminous wearing course outside of the public road right of way. Repair of the bituminous leveling course may be necessary due to any delay in placement of the bituminous wearing course. Substantial repair to the bituminous leveling course may be necessary if placement of the bituminous wearing course is delayed for more than 12 months after placement of the bituminous leveling course. The bituminous leveling course shall be repaired as directed by Engineer prior to placement of the bituminous wearing course.





GRAVEL CROSS SECTION

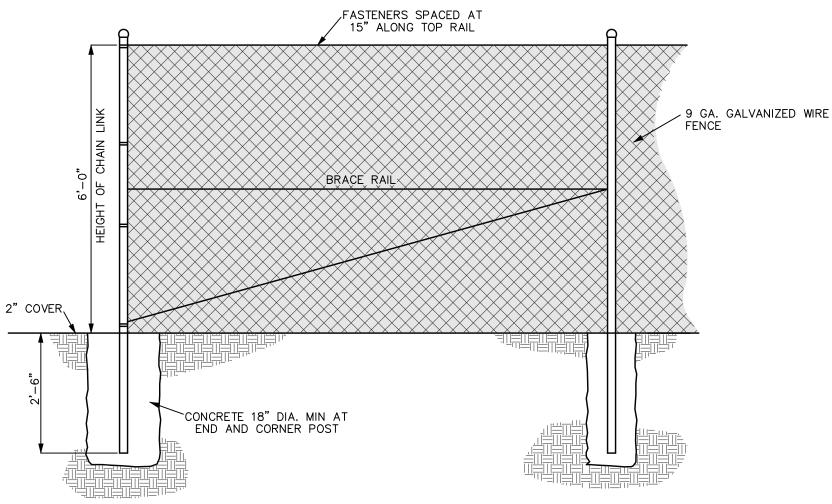
KEY	DESCRIPTION	MATERIAL SPECIFICATION	MINIMUM COMPACTED THICKNESS
S	SURFACE	BITUMINOUS MILLINGS	12"

AGGREGATE CROSS SECTION NOTES:

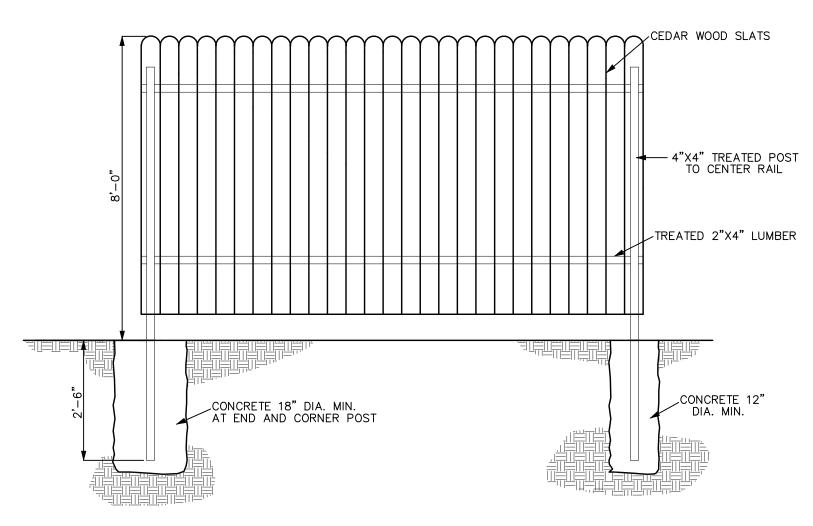
- 1. Refer to the General Notes, Road Construction Notes and Typical Road Cross Section detail on the project plans for additional requirements.
- 2. Unsuitable soils found within the 1 on 1 influence zone of the roadway, such as muck, peat, topsoil, marl, silt or other unstable materials shall be excavated and replaced up to the proposed subgrade elevation with MDOT Class III granular material compacted to 95% maximum unit weight, modified proctor.
- 3. Contractor shall proof roll prepared subgrade as directed by Engineer. Unacceptable areas of subgrade shall be undercut and replaced as directed by Engineer. See Subgrade Undercut & Replacement Cross Section detail for additional requirements.

CONCRETE CURB NOTES:

- 1. Refer to the project plans for the proposed locations of the specific curb types.
- 2. The construction specifications of the appropriate Local Municipality are a part of this work. Refer to the General Notes and Curb Cross Section Details on the project plans for additional requirements.
- 3. Extend the base and/or subbase material of the appropriate adjacent pavement cross-section horizontally to 1 foot behind the back of curb. Concrete curb shall be constructed on no less than 6" of combined depth of compacted base/subbase material.
- 4. Concrete material shall meet or exceed the specification requirements of the appropriate Local Municipality. If not specified by the Local Municipality, then the concrete material shall be MDOT P1 (I-A) 6.0 sack concrete pavement mixture with a minimum 28 day design compressive strength of 4,000 PSI and 6.5% (+/-1.5%) entrained air. Contractor shall submit concrete mix design and aggregate mechanical analysis report to the Local Municipality and Engineer for review and approval prior to use.
- 5. Install transverse contraction control joints in accordance with the Local Municipality requirements. If not specified by the Local Municipality, then install transverse contraction control joints in curb with 1" minimum depth at 10' on center. Tool joints in fresh concrete or saw cut within 8 hours.
- 6. Install transverse expansion control joints in accordance with the Local Municipality requirements. If not specified by the Local Municipality, then install transverse expansion control joints in curb as follows: 400' maximum on center, at spring points of intersecting streets and within 10' on each side of catch basins. Transverse expansion control joints shall be 1" thick asphalt fiber joint filler matching entire curb cross section.
- 7. Provide 1" asphalt fiber control joint between back of curb and all other concrete structures, such as concrete sidewalks and concrete driveways.
- 8. Curb Contractor shall provide final adjustment of catch basin castings in curb line. Castings shall be tuck pointed to structure water tight with concrete or mortar inside and outside of casting.
- 9. Install curb cuts for all existing and proposed sidewalks and pedestrian ramps in accordance with the American Disabilities Act and the Barrier Free Design requirements of the appropriate Local, County and/or State Agency. Refer to MDOT Standard Plan R-28, latest revision. Install curb cuts for all existing and proposed vehicular ramps and drives as noted on the project plans.



CHAINLINK FENCE DETAIL



SCREENING FENCE

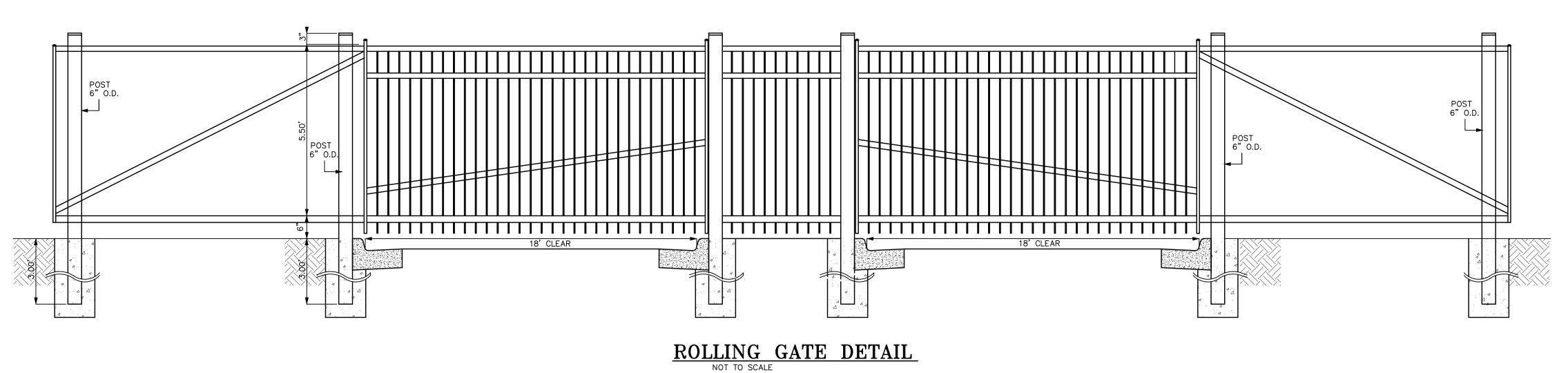
FENCE TO BE PAINTED/STAINED TO GROUND LEVEL COLOR PER OWNERS DISCRETION

GENERAL NOTES:

- 1. Contractor shall perform the work in accordance with the requirements of the appropriate Local, County and State Agencies and all other Government and Regulatory Agencies with jurisdiction over the project. Contractor shall notify the appropriate Agencies in advance of each stage of work in accordance with each Agency's requirements.
- 2. Contractor shall comply with all permit, insurance, licensing and inspection requirements associated with the work. Prior to construction, Contractor and Owner/Developer shall determine who is responsible for obtaining each required permit. Contractor shall verify that the each required permit has been obtained prior to commencement of the stage of work associated with the required permit(s).
- 3. Contractor shall furnish liability insurance and property damage insurance to save harmless the Owner, Developer, Architect, Engineer, Surveyor and Government Agencies for any accident occurring during the construction period. Refer to the appropriate Local, County and State Agencies for additional requirements. Copies of insurance certifications shall be made available to the Owner/Developer.
- 4. Contractor shall conduct and perform work in a safe and competent manner. Contractor shall perform all necessary measures to provide for traffic and pedestrian safety from the start of work and through substantial completion. Contractor shall determine procedures and provide safety equipment such as traffic controls, warning devices, temporary pavement markings and signs as needed. Contractor shall comply with the safety standards of the State Department of Labor, the occupational health standards of the State Department of Health and safety regulations of the appropriate Local, County, State and Federal Agencies. Refer to the safety specifications of the appropriate Regulatory Agencies. The Contractor shall designate a qualified employee with complete job site authority over the work and safety precautions; said designated employee shall be on site at all times during the work.
- 5. Contractor shall coordinate scheduling of all work in the proper sequence, including work by Subcontractors. Additional costs due to improper planning by Contractor or work done out of sequence as determined by standard acceptable construction practices, shall be Contractor's responsibility.
- 6. Contractor shall contact the 811 Underground Public Utility Locating System or other appropriate local underground utility locating Agency, a minimum of three (3) working days prior to construction. Existing utility information on the project plans may be from information disclosed to this firm by the Utility Companies, Local, County or State Agencies, and/or various other sources. No guarantee is given as to the completeness or accuracy thereof. Prior to construction, locations and depths of all existing utilities (in possible conflict with the proposed improvements) shall be verified in the field.

7. Contractor shall coordinate scheduling a Pre-Construction Meeting with Engineer prior to commencement of work.

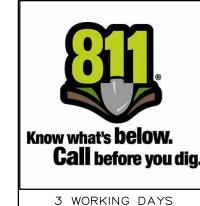
- 8. The Local Municipality, County and/or State in which the project is located may require an Engineer's Certification of construction of the proposed site improvements. Contractor shall verify the certification requirements with Engineer prior to commencement of work. Contractor shall coordinate construction staking, testing, documentation submittal and observation with the appropriate Agency, Surveyor and/or Engineer as required for Engineer's Certification and Government Agency Acceptance. All materials used and work done shall meet or exceed the requirements of certification and acceptance, the contract documents and the material specifications noted on the project plans. Any materials used or work done that does not meet said requirements, contract documents and/or specifications shall be replaced and/or redone at Contractor's expense. The Owner/Developer may wait for test results, certifications and/or Agency reviews prior to accepting work.
- 9. Engineer may provide subsurface soil evaluation results, if available, to Contractor upon request. Subsurface soil evaluation results, soils maps and/or any other documentation does NOT guarantee existing soil conditions or that sufficient, acceptable on-site granular material is available for use as structural fill, pipe bedding, pipe backfill, road subbase or use as any other granular material specified on the project plans. On-site granular material that meets or exceeds the material specifications noted on the project plans may be used as structural fill, pipe bedding, pipe backfill and/or road subbase material. On-site granular material shall be stockpiled and tested as acceptable to the appropriate Agency and/or Engineer prior to use.
- 10. During the performance of their work, Contractor shall be solely responsible for determining soil conditions and appropriate construction methods based on the actual field conditions. Contractor shall furnish, install and maintain sheeting, shoring, bracing and/or other tools and equipment and/or construction techniques as needed for the safety and protection of the workers, pedestrians and vehicular traffic and for protection of adjacent structures and site improvements.
- 11. Contractor shall install temporary and permanent soil erosion and sedimentation control devices at the appropriate stages of construction in accordance with the appropriate regulatory Agencies. Refer to Soil Erosion and Sedimentation Control Plans and Notes on the project plans.
- 12. Structural fill shall be placed as specified on the project plans and within the 1 on 1 influence zone of all structures, paved areas and other areas subject to vehicular traffic. Structural fill shall be placed using the controlled density method (12" maximum lifts, compacted to 95% maximum unit weight, modified proctor). Fill material shall meet or exceed the specifications noted on the project plans or as directed by Engineer when not specified on the project plans.
- 13. All existing monuments, property corners, ground control and benchmarks shall be protected and preserved; and if disturbed by Contractor, shall be restored at Contractor's expense. Contractor shall notify Surveyor of any conflicts between existing monuments, property corners, ground control and/or benchmarks and the proposed site improvements
- 14. Contractor shall notify Owner/Developer and Engineer immediately upon encountering any field conditions, which are inconsistent with the project plans and/or specifications.
- 15. When noted on the project plans for demolition and/or removal, Contractor shall remove existing structures, building and debris and recycle and/or dispose of in accordance with Local, County, State and Federal regulations.
- 16. Contractor shall remove excess construction materials and debris from site and perform restoration in accordance with the project plans and specifications. Disposing of excess materials and debris shall be performed in accordance with Local, County, State and Federal regulations.
- 17. Construction access to the site shall be located as acceptable to the Owner/Developer and to the appropriate Local, County and/or State Agency with jurisdiction over the road(s) providing access to the site. Construction access shall be maintained and cleaned in accordance with the appropriate Local, County and/or State Agencies and as directed by Owner/Developer and/or
- 18. Contractor shall take necessary precautions to protect all site improvements from heavy equipment and construction procedures. Damage resulting from Contractor actions shall be repaired at Contractor's expense.



NOTES

ADDRESS NUMBERS SHALL BE POSTED ON GATE KEY PAD RISER. NUMBERS SHALL BE MIN. 6" HEIGHT WITH A CONTRASTING BACKGROUND.

. KNOX BOX AND KNOX LOCK SHALL BE PROVIDED PER H.A.F.D. REQUIREMENTS. KNOX BOX TO BE INSTALLED ON KEY PAD



BEFORE YOU DIG CALL 811 OR 1-800-482-717 (TOLL FREE) OR VISIT CALL811.COM

(810) 227-9533 **CIVIL ENGINEERS** LAND SURVEYORS 2183 PLESS DRIVE BRIGHTON, MICHIGAN 48114

DESIGN:S DRAFT: JHG CHECK: WMP

REVISION # DATE **REVISION-DESCRIPTION** REVISION # DATE **REVISION-DESCRIPTION** 7-29-25 REVISED PER MHOG REVIEW COMMENTS DATED 7-7-25

OUTSIDE STORAGE HOWELL

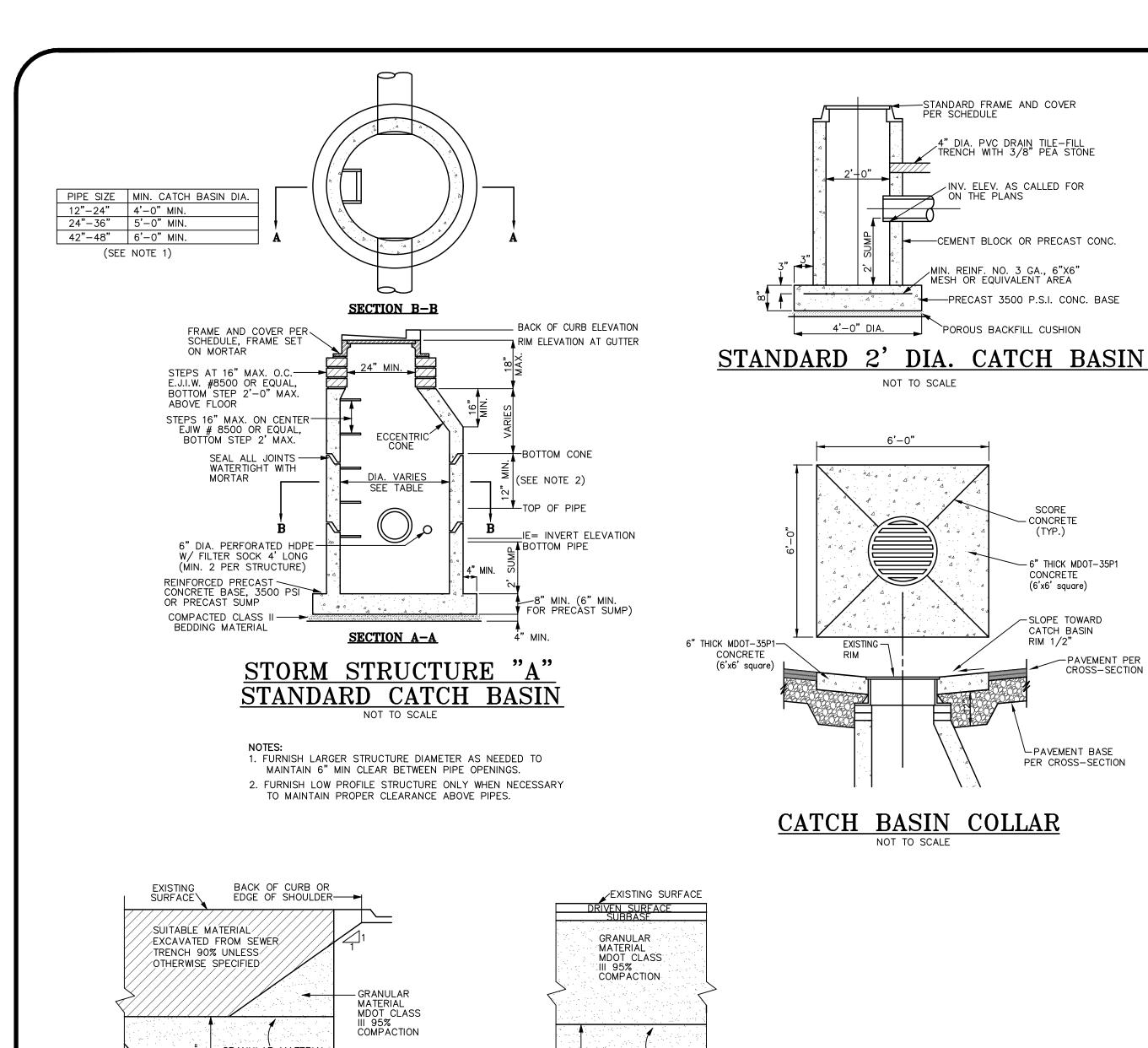
SITE & PAVING NOTES & DETAILS

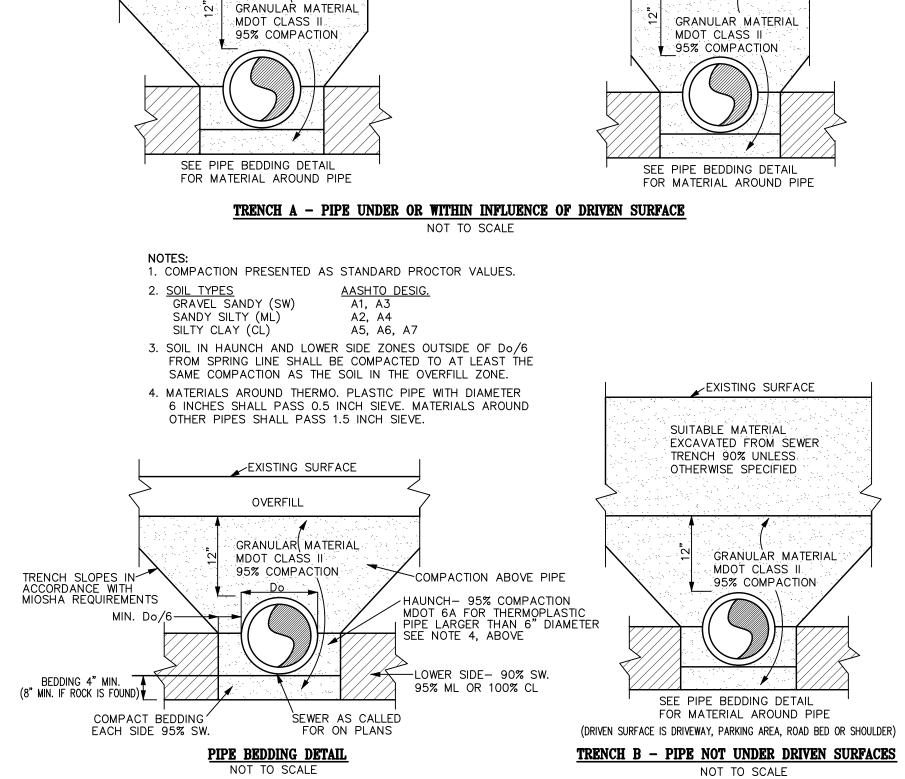
CLIENT: **OUTSIDE STORAGE HOWELL** 1560 SABLE COMMERCE TOWNSHIP, MICHIGAN 48382

248-217-8308

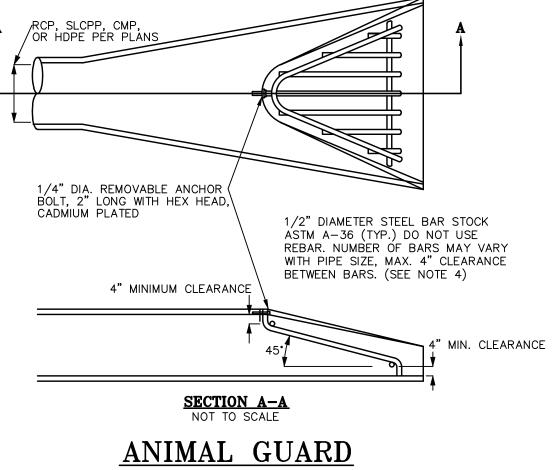
SCALE: AS NOTED PROJECT No.: 244802 DWG NAME: 4802 DT ISSUED: JULY 29, 2025



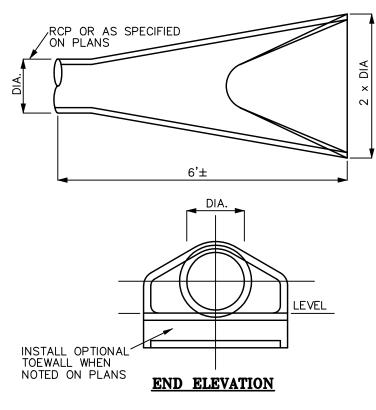




TRENCH DETAILS



- 1. ANIMAL GUARD REQUIRED ON ALL FLARED END SECTIONS OF 15" DIAMETER PIPE OR GREATER.
- 2. CONTRACTOR MAY SUBSTITUTE ALTERNATE GRATING LAYOUT AS APPROVED BY OWNER/ENGINEER/AGENCY PRIOR TO INSTALLATION.
- 3. DETAIL SHOWN FOR RCP FLARED END SECTION. PROVIDE SIMILIAR ANIMAL
- STANDARDS.
- GUARD FOR FLARED END SECTIONS ON CMP, HDPE, AND SLCPP. 4. WELD ALL CONNECTIONS FULL STRENGTH PER AMERICAN WELDING SOCIETY



FLARED END SECTION NOT TO SCALE

- 1. RCP FLARED END SECTION SHOWN, PROVIDE SIMILAR FLARED END SECTION FOR CMP, SLCPP OR HDPE PIPE.
- 2. PROVIDE RIP-RAP PER RIP-RAP DETAILS FOR ALL OUTLET FLARED END SECTIONS.
- 3. INSTALL FLARED END SECTION WTIH INVERT ELEVATION ELEVATION LEVEL AS VIEWED FROM END.

STORM SEWER NOTES:

- 1. The storm sewer and stormwater management specifications of the Local Municipality are a part of this work. Refer to the General Notes on the project plans for additional requirements.
- 2. Storm sewer work shall include clearing of vegetation and tree stumps, stripping and stockpiling of topsoil for reuse, excavation of pipe trench, placement of pipe bedding, placement of pipe and structures including castings, connection to existing structures, tuck pointing of structures, backfill of pipe trench, compaction of backfill, finish grading to provide positive drainage to structures, adjustment of castings to match finish grade, topsoil placement, seed & mulch, site cleanup and restoration, and other work as shown on the project plans and specifications.
- 3. Existing and proposed grades shown in profile view, when provided on the project plans, may be in relation to the centerline of road or item other than the centerline of pipe. The pipe lengths and grades shown in profile view on the project plans may not be to scale.
- 4. RCP when shown on the project plans shall be reinforced concrete pipe and shall conform to the specifications for reinforced concrete pipe per ASTM C76. RCP pipe joints shall be bell-and-spigot with rubber gaskets conforming to ASTM C433. Non-gasketed joints shall only be utilized when authorized by the Owner, Engineer AND Municipality. Non-gasketed joints of pipe having a diameter of 30 inches or greater shall be tuck-pointed on the inside with cement mortar after the backfill process is complete. Install reinforced concrete end sections incidental to work. Saw cut pipes to length as needed. When pipe class is not shown on the project plans, provide the

Pipe cover to proposed grade: 0 to 4 feet 4.1 to 10 feet Class III* 10.1 to 18 feet Class IV

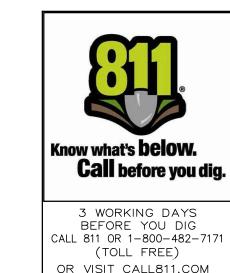
18.1 feet and greater

* Use Class IV under paved surfaces

5. CMP when shown on the project plans shall be corrugated metal pipe and shall conform to the specifications for corrugated metal pipe per AASHTO Designation M36. CMP shall be 16-guage steel minimum for 24 inch diameter or smaller and 14-guage steel minimum for 30 inch diameter or greater. Install galvanized steel end sections and connection bands, incidental to work. Connection bands for CMP pipe joints located under paved surfaces shall be gasketed couplers. Saw cut pipes to length as needed.

Class V

- 6. HDPE Type S when shown on the project plans shall be high density polyethylene pipe with a smooth interior and shall conform to the specifications for high density polyethylene pipe per AASHTO Designation M252 Type S for pipes of 3" to 10" diameter and per AASHTO Designation M294 Type S for pipes of 12" to 60" diameter. HDPE - Type S pipe joints shall be bell-and-spigot type conforming to ASTM D3212 with rubber gaskets conforming to ASTM F477. Tamp backfill at spring line of HDPE - Type S pipe. Install high density polyethylene end sections incidental to work. Saw cut pipes to length as needed.
- 7. HDPE Type C when shown on the project plans shall be high density polyethylene pipe with a corrugated interior and shall conform to the specifications for high density polyethylene pipe per AASHTO Designation M252 for pipes of 3" to 10" diameter and per AASHTO Designation M294 for pipes of 12" to 60" diameter. HDPE - Type C pipe joints shall be bell-and-spigot type conforming to ASTM D3212 with rubber gaskets conforming to ASTM F477. Tamp backfill at spring line of HDPE - Type C pipe. Install high density polyethylene end sections incidental to work. Saw cut pipes to length as needed.
- 8. CPVC when shown on the project plans shall be corrugated polyvinyl chloride pipe and shall conform to the specifications for corrugated polyvinyl chloride pipe per ASTM F794 and F949. CPVC pipe joints shall be bell-and-spigot type conforming to ASTM D3212 with rubber gaskets conforming to ASTM F477. Tamp backfill at spring line of CPVC pipe. Install high density polyethylene end sections incidental to work. Saw cut pipes to length as needed.
- 9. PVC when shown on the project plans shall be polyvinyl chloride pipe and shall conform to the specifications for polyvinyl chloride pipe per ASTM D2751, maximum SDR of 26. PVC pipe joints shall be bell-and-spigot type conforming to ASTM D3212 with rubber gaskets conforming to ASTM F477 or solvent welded type conforming to ASTM D2564. Tamp backfill at spring line of PVC pipe. Saw cut pipes to length as needed.
- 10. Concrete storm structures shall be pre-cast and shall conform to the specification of pre-cast concrete structures per ASTM C478. Joints of concrete storm structure sections shall be bell-and-spigot with rubber gaskets conforming to ASTM C433. Brick, concrete block or cast in place storm structures may be substituted for pre-cast storm structures ONLY when authorized by the Owner, Engineer AND Municipality; refer to MDOT standard plan R-1, latest revision. Pipe openings in pre-cast structures shall be factory installed. All temporary openings in storm structures shall be tuck-pointed watertight with cement mortar. Refer to MDOT standard plan R-2, latest revision, for alternate on-line storm structure details when pipe exceeds 42 inch diameter.
- 11. Tap existing structures as acceptable to the Engineer and Municipality, incidental to work. All temporary
- 12. Backfill all storm sewer in accordance with the Pipe Trench details provided on the project plans. Provide pipe bedding that meets or exceeds both the specifications of the Pipe Trench details on the project plans and the recommendation of the pipe manufacturer, incidental to work.
- 13. When edge drains and/or under drains are shown on the project plans, connection to storm structures is incidental to work. During storm sewer construction, install first 10 linear feet of edge drain and/or under drain from the storm structures in each specified direction and install temporary cap at end. Complete installation of edge drain following preparation of the subgrade when under paved surface or following finish grade when not under paved surface.
- 14. Install removable plugs in storm sewer stubs as acceptable to Engineer and Municipality, incidental to work. Mark the end of all storm sewer stubs with a 2" x 4" wooden stake extending a minimum of 12" above finish
- 15. Storm structure castings shall be coated with water based asphaltic paint by the manufacturer. Seams and temporary openings between storm structures and castings shall be tuck-pointed water tight with cement mortar. Coordinate correct curb box / hood / "T" back as needed to match curb profile. See casting schedule on project plans for additional requirements.
- 16. Provide 3.5' minimum cover from the top of pipe of all roof drain pipes to the proposed finish grade when site conditions allow. When pipe cover is less than 3.5', install 2" thick by 24" wide Styrofoam insulation centered over the top of pipe at 12" above top of pipe or as required by the Local Municipality.





REVISION # DATE **REVISION-DESCRIPTION** REVISION # DATE **REVISION-DESCRIPTION** OUTSIDE STORAGE DESIGN:S DRAFT: JHG CHECK: WMP HOWELL

STORM SEWER NOTES & DETAILS

CLIENT: **OUTSIDE STORAGE HOWELL** 1560 SABLE COMMERCE TOWNSHIP, MICHIGAN 48382

248-217-8308

SCALE: AS NOTED PROJECT No.: 244802 DWG NAME: 4802 DT

ISSUED: JULY 29, 2025



248-930-1565p. Joe@ wilson-design.net

CONTRACTORS:

	5	2.5" CAL.	SUGAR MAPLE	ACER SACCHARUM
	26	2.5" CAL.	CRIMSON KING MAPLE	ACER PLATANOIDES 'CRIMSON KING'
	3	1 <i>0</i> ° HT.	RIVER BIRCH	BETULA NIGRA
	19	6' HT.	NORWAY SPRUCE	PICEA ABIES
	10	6' HT.	SERVICEBERRY	AMELANCHIER ARBOREA
0	109	36" HT.	DOUBLE FILE VIBURNUM	VIBURNUM PLICATE F. TOMENTOSUM
0	147	24" HT.	DWF. BURNING BUSH	EUONYMUS ALATUS 'COMPACTUS'
0	58	24" HT.	DWF. REDTWIG DOGWOOD	CORNUS SERICEA
	+99	+6" DBH	MISC. EXISTING TREES ALONG	PARSONS ROAD



PROJECT:

Outdoor Storage -Howell

DRAWN BY:

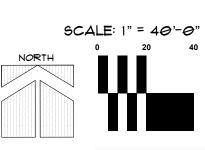
ISSUE:

03.30.2024

REVISIONS: 11.26.2024 12.17.2024 04.26.2025 06.12.2025

DESCRIPTION:

Landscape Plan





ALL INFORMATION CONTAINED HEREIN IS

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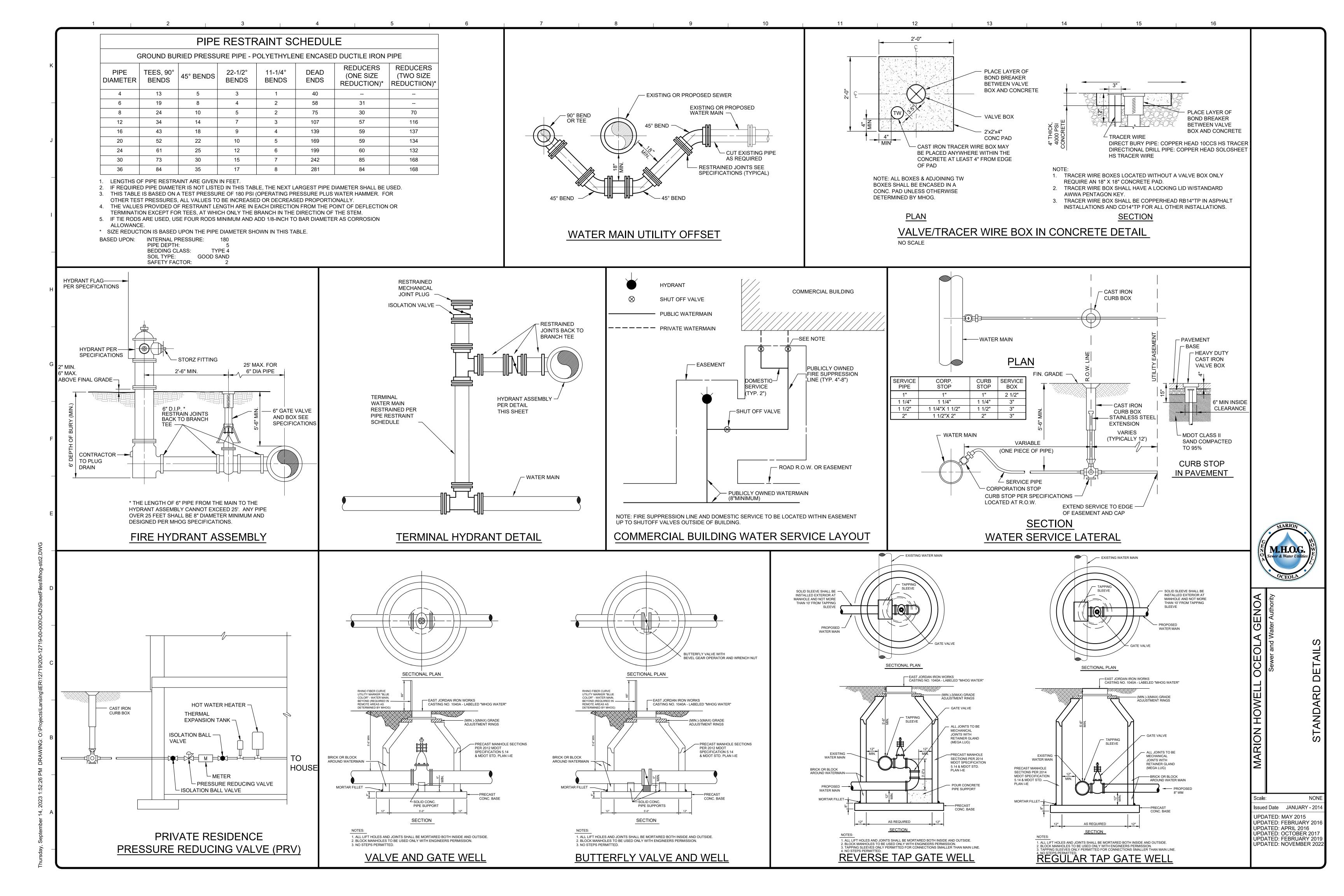
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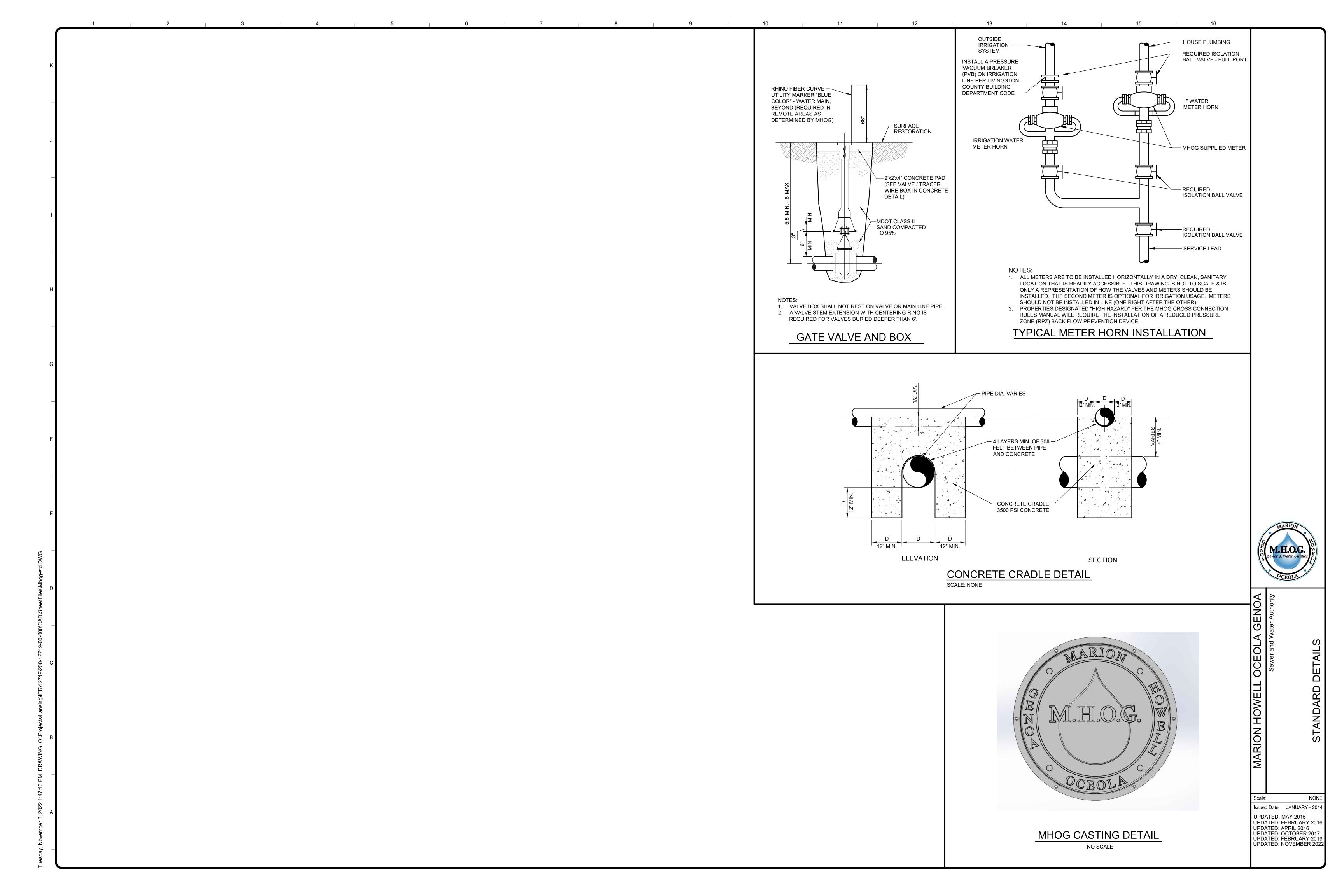
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AND MAY GIVE RISE TO CIVIL AND/OR CRIMINAL

PENALTIES. © 2024 WDA









117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

Date: April 15, 2025 Rev. May 19, 2025 Rev. July 15, 2025 Rev. August 21, 2025

Site Plan Review For Howell Township, Michigan

Applicant: Outdoor Storage, LLC

Project Name: Juett Outside Storage

Plan Date:June 5, 2025Revised Date:July 29, 2025

Location: 4802 Hydraulic Drive (Parcel #4706-28-100-071)

Zoning: Industrial Flex (IFZ)

Action Requested: Final Site Plan Approval

PROJECT AND SITE DESCRIPTION

The applicant has submitted a final site plan dated July 29, 2025, for the construction of an outdoor storage facility located at the end of Hydraulic Dr. on the vacant parcel #4706-28-100-071.

The Planning Commission previously chose to postpone the preliminary site plan and special land use application during their April 22, 2025 meeting. During the May 27, 2025 meeting the preliminary site plan was approved and the special land use application was recommended to the Township Board for approval. At their June 9, 2025 meeting, the Township Board approved the special land use application.

Juett Outdoor Storage - Final Site Plan Review August 21, 2025

Contractor equipment and materials storage yards for building and other types of construction are permitted in the IFZ district with the requirement that any area used for outdoor storage is completely enclosed and screened from external visibility beyond such storage area per Section 12.02. L.

During the April 22, 2025 Planning Commission meeting the applicant made note that shipping containers were intended to be utilized for storage on site as well. Per Section 12.04 Cargo Containers, are considered accessory uses in the IF Zoning District subject to Section 14.07. Storage of containers on site shall be limited to 4% of the lot area, up to 3,000 square feet. All proposed structures must be indicated on the site plan.

Proposed storage spaces on the site are as follows:

Table 1. Proposed Storage Spaces

. abic = obecca etc. abc obacco		
Number of Spaces	Dimensions	
12	Unspecified	
1	90' x 95'	
1	75' x 94'	
68	12' x 80'	
55	12' x 35'	
11	35' x 80'	
2	60' x 129'	
3	84' x 129'	
Total Number of Spaces	153	

The subject site is a vacant 11.5 acre parcel and neighbors an existing storage facility. The site is proposed to function solely as an outdoor storage site. No work is performed at the facility and the applicant has stated that lease agreements are required for each tenant, which includes the provision that tenants are to be responsible for keeping their rental spaces clean and orderly, making each tenant responsible for the disposal of any waste generated. At the April 22, 2025 Planning Commission meeting the applicant spoke to how the business manages this agreement through regular inspections and surveillance. Ultimately any issues on the property will be the responsibility of the property owner.

The applicant has proposed the project in two phases. Phase 1 includes seventy (70) storage spaces beginning on the western property line. Phase 2 will build out the remaining eighty-three (83) of the total 153 storage spaces.

The applicant appeared before the Planning Commission at their May 27, 2025 meeting with a preliminary site plan and special land use application. The Commission approved the preliminary plan and recommended approval of the special land use application to the Township Board with the following findings:

- 1. No additional parking spaces are required
- 2. The hard surface paving requirements are waived and asphalt millings 8-12" in depth will be used

Figure 1. Aerial Image of Subject Site and Vicinity



Source: NearMap October 2024

Items to be Addressed: Denote all proposed structures on site, including proposed storage

NEIGHBORING ZONING, LAND USE AND MASTER PLAN

containers.

Neighboring zoning designations are summarized in Table 1.

Table 1. Zoning, Land Use and Master Plan Designations

	Zoning	Existing Land Use	Master Plan Designations
Subject Site	Industrial Flex Zone	Vacant	Industrial Flex Zone
North	Industrial	IT / Electrical Services	Industrial Flex Zone
South	Industrial Flex Zone / Highway Service Commercial	Landscaping Business	Industrial Flex Zone

East	Industrial Flex Zone	Trucking Company	Industrial Flex Zone
West	Industrial Flex Zone	Outdoor Storage	Industrial Flex Zone

Items to be Addressed: None.

AREA, WIDTH, HEIGHT, SETBACKS

The following table summarizes the Density, Placement, and Height Regulations for the site plan associated with the use.

Table 2. Density, Placement, and Height Regulations

	Required	Provided	
Lot Area	2 Acres	11.5 Acres	
Lot Width	Width 200 Feet >200 Feet		
Front Setback	ck 35 Feet 35 Feet		
Side Setback	10 Feet Minimum (Minimum Total of	10 feet (west)	
	Both Sides=25 Feet)	15 feet (east)	
Rear Setback	etback 10 Feet Minimum 35 Feet		
Lot Coverage	erage 75 % Max 74.9%		
Building Height	ng Height 70 Feet Max No proposed building		

Items to be Addressed: None.

PARKING, LOADING

The letter submitted by the applicant states that the majority of the storage units will be used for work vehicles. The applicant states that typically, tenants come to the site, move vehicles out of their rented space, and park a personal vehicle in its place until they return. No formal parking area is proposed separate from the units themselves. The proposed seventy (70') foot wide drives are expected to provide reasonable space for a tenant to move their work vehicle out of their rented space and pull a personal vehicle in. Smaller spaces are positioned on a forty (40') foot wide drive, with direct access to the wider areas throughout the site.

Section 18.02 does not specifically address outdoor storage centers for parking, which allows for the Planning Commission to assign the parking requirements of a similar or related use. The proposed site will not have a building erected and no employees are planned to be on site as the entrance is via keypad.

During their May 27, 2025 meeting the Planning Commission ruled that no additional parking will be required and the Commission approved bitinmous millings (8-12") throughout the interior of the site with the exception of the entrance and exit area at the northern boundary line.

Juett Outdoor Storage - Final Site Plan Review August 21, 2025

Items to be Addressed: None.

FENCING

Eight (8') foot high cedar wood slat screen fencing is proposed along the northwestern portion of the site that fronts Hydraulic Drive. Six (6') foot chain linked fencing is proposed along the parcel boundary lines and will work as the dividing wall between storage spaces.

Additional fencing details are provided on Sheet DT1 of the submitted plans.

Items to be Addressed: None.

SITE ACCESS AND CIRCULATION

Proposed access to the facility will be from a two-way drive off Hydraulic Drive. Tenants are granted entrance via keypad as they enter and exit the site. Drives located within the site are either seventy (70') feet wide or forty (40') feet wide.

The applicant has provided an emergency vehicle circulation plan which demonstrates suitable vehicular traffic flow.

We defer to Engineering and the Fire Chief for further consideration.

Items to be Addressed: None.

NATURAL FEATURES

The site is mostly open space and tilled farmland with trees lining the southern parcel boundary and lightly dispersed throughout. EGLE's Wetlands Map Viewer depicts soil area which include wetland soils near the southwest corner of the site. This is not an identified wetland on the National Wetlands Inventory (NWI) or Michigan Resource Inventory System (MIRIS) maps.

Items to be Addressed: None.

LANDSCAPING

The applicant has provided a landscape plan on Sheet L-1. A complete landscape plan is required for final site plan approval. The following table indicates the requirements in the Zoning Ordinance.

Landscaped Area	Requirement	Factor	# Required	Provided
Non- Residential Parcel	1 tree per 3,000 square feet (25.1% open space = 112,945 square feet)	112,945 square feet / 3,000 square feet = 38 trees	38 trees	36 trees + existing along Parsons
	1 deciduous or evergreen tree per 40 linear feet	329.48 feet / 40 feet = 9 trees	9 trees	9 trees
Hydraulic Drive	1 ornamental tree per 100 linear feet	329.48 feet / 100 feet = 4 trees	4 trees	4 trees
	Min. of 8 shrubs per every 40 linear feet	(329.48 feet / 40 feet) * 8 = 66 shrubs	66 shrubs	69 shrubs
Parsons Road	1 deciduous or evergreen tree per 40 linear feet	728.39 linear feet / 40 linear feet = 19 trees	19 trees	Existing trees (99+)
	1 ornamental tree per 100 linear feet	728.39 linear feet / 100 linear feet = 8 trees	8 trees	
	Min. of 8 shrubs per every 40 linear feet	728.39 linear feet / 40 linear feet x 8 shrubs = 146	146 shrubs	147 shrubs
	Sodded or seeded groundcover		N/A	Seeded
Stormwater Retention/ Detention Area	1 deciduous shade or evergreen tree per 50 lineal feet	471.5 linear feet / 50 linear feet = 10 trees	10 trees	14 trees
	10 shrubs for every 50 lineal feet	(471.5 linear feet / 50 linear feet) * 10 = 95 shrubs	95 shrubs	98 shrubs

Further, as noted above, contractor equipment and materials storage yards for building and other types of construction are permitted in the IFZ district with the requirement that any area used for outdoor storage is completely enclosed and screened from external visibility beyond such storage area. As mentioned throughout the review process the applicant has not demonstrated that the outdoor storage will be adequately screened from view in all directions.

We continue to urge the addition of a berm and evergreen trees in two staggered lines along the eastern parcel line to provide sufficient screening from M-59. The currently proposed maple trees in this area do not achieve the required screening.

Juett Outdoor Storage - Final Site Plan Review August 21, 2025

This is a Zoning Ordinance requirement and is not a requirement the Zoning Ordinance gives the Planning Commission authority to waive. Therefore, until screening is deemed appropriate administratively any associated Zoning permits will not be released.

Items to be Addressed: The outdoor storage areas shall be completely screened from view from all directions per Section 12.02. L of the Zoning Ordinance.

LIGHTING

A sufficient lighting plan has been provided. A photometric plan indicates that the light levels at property lines are acceptable. Planned lighting includes two types of base mounted downward fixed lights which will be located near the entrance as well as four (4) other corners throughout the site. All lights appear to be permanent horizontal fixtures that will appropriately shield light from adjacent properties.

Items to be Addressed: None.

SIGNS

The site plan does not indicate any signage proposed on the site.

If added, signs will require a separate permit from the Zoning Administrator. A sign application must be filed with the Zoning Administrator, at which time the zoning administrator will determine if the signs meet the requirements of the ordinance.

Items to be Addressed: None.

TRASH ENCLOSURE

There is no trash enclosure proposed for the site. During the April 22, 2025 meeting, the applicant explained that each tenant will be responsible for the removal of any refuse in their storage area. The applicant has confirmed this is a requirement for each tenant per the lease agreement and that inspections and surveillance are utilized to ensure compliance.

Items to be Addressed: None.

RECOMMENDATIONS

The next step for the Planning Commission is to determine if the final site plan has met the requirements listed in Article 20 Site Plan Review Procedures.

Juett Outdoor Storage - Final Site Plan Review August 21, 2025

If so decided, we recommend the Planning Commission condition approval on the following item(s):

Denote all proposed structures on site, including proposed storage containers.

1. The outdoor storage areas shall be completely screened from view from all directions per Section 12.02. L of the Zoning Ordinance.

CARLISLE/WORTMAN ASSOC., INC.

Paul Montagno, AICP

Principal

CARLISLE/WORTMAN ASSOC., INC.

Grayson Moore Community Planner

#PC-2025-05

cc: Joanathan Hohenstein, Township Zoning Administrator

Carol Makushik, Township Deputy Zoning Administrator

Adam Jacqmain, Township Engineer



July 18, 2025

Jonathan Hohenstein Howell Township 3525 Byron Road Howell, MI 48855

RE: Outside Storage Howell

Parcel # 4706-28-100-071 Final Site Plan Review

Mr. Hohenstein,

We have received and reviewed the final site plan for the proposed Outside Storage Howell, Parcel #4706-28-100-071. The plans were prepared by Desine Inc, dated June 5, 2025 and were received on June 23, 2025. Based on our review, we offer the following comments:

General

The site consists of a single parcel located at the terminus of Hydraulic Drive, spanning 11.5 acres and is zoned Industrial (I). The proposed use of outside storage is consistent with the existing zoning regulations. The property is bordered by Industrial (I) zoning to the north and west and Industrial Flex Zone (IFZ) zoning to the east and south.

The cover sheet includes the project name, the owner's name and address, and the name and address of the firm preparing the plans. It also contains a vicinity map, the preparation date, and a legal description of the parcel, including bearings and distances.

Sheet SP outlines the required setbacks, which align with the values specified in the Howell Township Zoning Ordinance. The proposed setbacks meet or exceed the listed minimum requirements.

An existing conditions topographical map is included in the plan. This map includes property lines and 1-foot contour intervals. The map clearly identifies and labels adjacent roads, existing easements, tree locations, wetlands, and existing structures and pavement.

Grading and Drainage

The site is relatively flat and primarily drains via sheet flow to the identified wetland areas located in the center and southwest corner of the parcel.

The proposed stormwater management system includes seven catch-basins, two yard-basins, and 1,200 feet of reinforced concrete pipe (RCP) storm sewer, designed to collect and convey runoff to a detention basin in the northwest corner of the parcel. This basin then discharges into an existing storm sewer running along Hydraulic Drive.

An outlet control structure detail, a watershed plan, and stormwater detention calculations have been provided. The calculations indicate that the detention volume is sufficient to accommodate the 100-year storm event. These calculations, along with the outlet control structure details and conveyance calculations, will undergo further review during the Construction Site Plan Review.

Sanitary Sewer

No sanitary sewer is proposed for this project.

Site Access and Paving

The site plan includes a proposed bituminous boulevarded approach with a gated ingress and egress. Several areas throughout the site are identified as bituminous millings; however, it is unclear which areas are intended to be paved, making it difficult to accurately determine the percentage of lot coverage, as stated in our Preliminary Site Plan Review.

Water main

There is no watermain proposed for this project.

Parking and Landscaping

A landscaping plan is included. Further comments are deferred to the Howell Township Planner.

Site Lighting

There are several proposed light poles in the site plan, but no photometric plan has been provided. We defer any further comments regarding the lighting plan to the Township Planner.

Recommendations

Should the Planning Commission decide to proceed with approval of this project, we recommend the following conditions be placed with approval:

- 1. Plans should be reviewed and approved by:
 - a. Fire Marshal
 - b. Township Planner
 - c. Livingston County Drain Commissioner
 - d. Livingston County Road Commission
 - e. Livingston County Health Department
- 2. Please identify which areas are to be paved with bit. millings.
- 3. Please provide a photometric plan.

If you have any questions or need anything further, please feel free to contact our office.

Sincerely,

Cameron T. Joseph Phone: (810) 224-2119

Cameron.joseph@spicergroup.com

Cameran Joseph

Philip A. Westmoreland, P.E.

Puf hitt

Principal

Phone: (517) 375-9449 philaw@spicergroup.com

SPICER GROUP, INC.

30300 Telegraph Rd, Suite 100 Bingham Farms, MI 48025

CC: SGI File

Jonathan Hohenstein, Howell Township Planner Ken Recker, Livingston County Chief Deputy Drain Commissioner Paul Montagno, Carlisle Wortman

Bryan Hager, Howell Township Fire Inspector



August 19, 2025

Jonathan Hohenstein Howell Township 3525 Byron Road Howell, MI 48855

RE: Outside Storage Howell

Parcel # 4706-28-100-071 Final Site Plan Review #2

Mr. Hohenstein.

We have received and reviewed the final site plan for the proposed Outside Storage Howell, Parcel #4706-28-100-071. The plans were prepared by Desine Inc, dated July 29, 2025 and were received on August 4th, 2025. Based on our second review, there are still outstanding items to be addressed. In order to reduce the number of reviews and the time being spent on the project, we would suggest scheduling a short meeting to discuss the remaining comments The meeting can be virtual in order to limit driving. Please contact our office if you would like to schedule a meeting. Having completed our review, we offer the following comments:

General

The site consists of a single parcel located at the terminus of Hydraulic Drive, spanning 11.5 acres and is zoned Industrial (I). The proposed use of outside storage is consistent with the existing zoning regulations. The property is bordered by Industrial (I) zoning to the north and west and Industrial Flex Zone (IFZ) zoning to the east and south.

The cover sheet includes the project name, the owner's name and address, and the name and address of the firm preparing the plans. It also contains a vicinity map, the preparation date, and a legal description of the parcel, including bearings and distances.

Sheet SP outlines the required setbacks, which align with the values specified in the Howell Township Zoning Ordinance. The proposed setbacks meet or exceed the listed minimum requirements.

An existing conditions topographical map is included in the plan. This map includes property lines and 1-foot contour intervals. The map clearly identifies and labels adjacent roads, existing easements, tree locations, wetlands, and existing structures and pavement.

Grading and Drainage

The site is relatively flat and primarily drains via sheet flow to the identified wetland areas located in the center and southwest corner of the parcel.

The proposed stormwater management system includes seven catch-basins, two yard-basins, and 1,200 feet of reinforced concrete pipe (RCP) storm sewer, designed to collect and convey runoff to a detention basin in the northwest corner of the parcel. This basin then discharges into an existing storm sewer running along Hydraulic Drive.

An outlet control structure detail, a watershed plan, and stormwater detention calculations have been provided. The calculations indicate that the detention volume is sufficient to accommodate the 100-year storm event.

These calculations, along with the outlet control structure details and conveyance calculations, will undergo further review during the Construction Site Plan Review.

Sanitary Sewer

No sanitary sewer is proposed for this project.

Site Access and Paving

The site plan includes a proposed bituminous boulevarded approach with a gated ingress and egress. Several areas throughout the site are identified as 'bituminous millings'; however, it is unclear which areas are intended to be paved, making it difficult to accurately determine the percentage of lot coverage, as stated in our Preliminary Site Plan Review.

Water main

There is no watermain proposed for this project.

Parking and Landscaping

A landscaping plan is included. Further comments are deferred to the Howell Township Planner.

Site Lighting

There are several proposed light poles in the site plan, but no photometric plan has been provided. We defer any further comments regarding the lighting plan to the Township Planner.

Recommendations

Should the Planning Commission decide to proceed with approval of this project, we recommend the following conditions be placed with approval:

- 1. Plans should be reviewed and approved by:
 - a. Fire Marshal
 - b. Township Planner
 - c. Livingston County Drain Commissioner
 - d. Livingston County Road Commission
 - e. Livingston County Health Department
- 2. Please clearly identify which areas are to be paved with bit. millings.
- 3. Please provide a photometric plan.

If you have any questions or need anything further, please feel free to contact our office.

Sincerely,

Adam C. Jacqmain Design Engineer

adamj@spicergroup.com Phone: (517) 375-9449 Philip A. Westmoreland, P.E.

Pul Witt

Phone: (810) 224-2119

Principal

philaw@spicergroup.com

SPICER GROUP, INC.

30300 Telegraph Rd, Suite 100 Bingham Farms, MI 48025

CC: SGI File

Jonathan Hohenstein, Howell Township Planner Ken Recker, Livingston County Chief Deputy Drain Commissioner Paul Montagno, Carlisle Wortman Bryan Hager, Howell Township Fire Inspector



ASSOCIATES, INC.

117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

TO: Howell Township Planning Commission

FROM: Paul Montagno, AICP, Principal Planner & Grayson Moore, Township Planner

DATE: August 20, 2025

RE: Proposed Zoning Ordinance Amendments to Regulate Renewable Energy

Facilities

Please find attached draft Zoning Ordinance Amendments and overlay district map that would regulate Renewable Energy Facilities within the Township. This draft includes modifications requested by the Planning Commission at their regularly scheduled July 22, 2025, meeting. The proposed ordinance applies to those facilities under the State determined nameplate capacity but could be used for a facility at or above capacity if the developers find the ordinance reasonable and chose to work with the Township. Therefore, as proposed, the ordinance will not act as a compatible renewable energy ordinance (CREO) as defined by PA. 233 of 2023, but could be considered a workable ordinance.

Additionally, it is recognized that there is a desire for residents or local business to utilize accessory solar systems to provide for the energy needs of a single location. The proposed language also includes regulations for accessory solar systems. These are systems that would be incidental to the principal use of a property for a residence or a business.

Please note the following modifications for your consideration:

- Location requirements have been added for Renewable Energy Facilities.
- Article XXX. has been created to detail a Renewable Energy Overlay District as well as provide the opportunity for additional overlay districts to be added in the future.

We look forward to discussing these proposed Zoning Ordinance amendments at your next Planning Commission meeting. The next step in the process would be to make a recommendation to the Township Board to approve the proposed ordinance as presented, approve the proposed ordinance with amendments, or deny the ordinance as proposed.

Sincerely,

CARLISLE/WORTMAN ASSOC., INC.

Paul Montagno, AICP

Principal

Grayson Moore Community Planner Draft Renewable Energy Facilities Ordinance to Replace Sections 16.15 and 16.19. Add Article XXX Overlay Districts.

Sections 16.15 Renewable Energy Facilities

A. RENEWABLE ENERGY DEFINITIONS

- 1) Abandonment: Any renewable energy system or facility that is no longer producing power over a consecutive 12-month period of time.
- 2) Accessory Solar Energy Systems: A device, and/or components designed to generate renewable and store energy installed at individual residential or commercial locations which are incidental to the principle permitted use on a parcel of land. The use of such installation is exclusively for private purposes, and not for any commercial resale of any energy, except for the sale of surplus electrical energy back to the electrical grid. Examples include Building-Mounted Solar Energy Collectors and Ground-Mounted Solar Energy Collectors.
- 3) Decommission: To remove and/or retire a renewable energy system or facility from active service, including the restoration of the ground to its original condition.
- 4) Facility Boundary. The boundary around a parcel, multiple parcels, or portions thereof, leased or purchased for the purposes of operating a renewable energy facility.
- 5) Nameplate Capacity: The designed full-load sustained generating output of an energy facility. This is determined by reference to the sustained output of an energy facility even if components of the energy facility are located on different parcels, whether contiguous or noncontiguous.
- 6) Nonparticipating Property: A property that is adjacent to an energy facility and that is not a participating property.
- 7) Occupied Community Building: a school, place of worship, day-care facility, public library, community center, or other similar building that the applicant knows or reasonably should know is used on a regular basis as a gathering place for community members.
- 8) Solar Array: A collection of solar panels, wired together to generate electricity from the sun.

- 9) Renewable Energy Facilities: A facility where the principal design, purpose, or use is to provide renewable energy via wind, solar and/or storage to off-site uses or the wholesale or retail sale of generated electricity.
- 10) Renewable Energy Systems: A device, and/or components designed to generate renewable energy.
- 11) Wind Energy Conversion System (WECS): Any device such as a turbine, windmill, or charger that converts wind energy to a usable form of energy.
- A. INTENT. Renewable Energy Facilities may only be permitted in the Howell Township Renewable Energy Overlay District. The following regulations are intended to ensure the interests of the landowner and the Township are achieved harmoniously with no negative effect to the long-term viability of the subject property or those surrounding it. In the Renewable Energy Overlay District where this special land use is permitted, facilities for the capture, storage, and distribution of renewable energy for commercial purposes.

B. SOLAR AND STORAGE FACILITIES

- Setbacks. The solar and storage renewable energy facility setback requirements are found in the table below. All associated accessory equipment shall be subject to the same requirements. Setback requirements for all yards may be increased or decreased by the Planning Commission based upon the following considerations:
 - The land use and zoning of adjacent properties, with particular attention to residential or other sensitive uses.
 - The presence and effectiveness of screening measures such as landscaping, fencing, or natural buffers.
 - Topographic conditions or existing vegetation that may reduce visual or noise impacts.
 - The orientation and design of the facility, including panel direction and placement of accessory structures.
 - Potential glare, noise, or other nuisance impacts on neighboring properties.

	Renewable Energy Overlay District		
Adjacent Properties	Residential Land Uses	Place of Worship or Public Institutional Land Uses	All Other Land Uses
Front Yard Setback (adjacent to right-of-way)	300ft from nearest dwelling unit or 100ft from property line whichever is greater	300ft from nearest dwelling unit or 100ft from property line whichever is greater	50ft from property line
Side Yard Setback	300ft from nearest dwelling unit or 100ft from property line whichever is greater	300ft from nearest dwelling unit or 100ft from property line whichever is greater	50ft from property line
Rear Yard Setback	300ft from nearest dwelling unit or 100ft from property line whichever is greater	300ft from nearest dwelling unit or 100ft from property line whichever is greater	50ft from property line

In instances where the renewable energy facility is comprised of multiple parcels, these setbacks shall apply to the exterior perimeter of all adjoining parcels. All setback distances are measured from the property line, or nearest point of a dwelling unit, to the closest point of the renewable energy system. Should the nearest component of the renewable energy system be a solar or photovoltaic array, the measurement shall be taken from the array at minimum tilt.

- 2) Lot Coverage. The area of the renewable solar energy facility and any associated accessory structures shall not exceed 75% of the square footage of the entire site within the facility boundary. Impervious surfaces for the purpose of calculating lot coverage for renewable solar energy systems include, but are not limited to, mounting pads, footings, concrete, asphalt, or gravel driveways and walkways, and accessory structures.
- 3) Height. The height of the renewable solar energy system and any mounts, buildings, accessory structures, and related equipment must not exceed twenty-five (25) feet when orientated at maximum tilt. Lightning rods may exceed twenty-five (25) feet in height, but they must be limited to the height necessary to protect the solar energy system from lightning and clearly shown in site plan proposals.

The height of the renewable storage energy system or any structure constructed to enclose the system shall not exceed thirty (30) feet.

- 4) Screening. Screening is required around the entire facility boundary perimeter to obscure, to the greatest extent possible, the solar or storage renewable energy system from all adjacent properties. Screening standards set forth in Section 28.03.A. shall be applied to all solar and storage renewable energy facilities. Each owner, operator, or maintainer of solar or storage renewable energy facility to which this ordinance applies shall utilize good husbandry techniques with respect to said vegetation, including but not limited to, proper pruning, proper fertilizer, and proper mulching, so that the vegetation will reach maturity as soon as practical and will have maximum density in foliage. Dead or diseased vegetation shall be removed and must be replanted at the next appropriate planting time. An acceptable and reasonable long term landscape maintenance plan must be submitted prior to final approval. The Planning Commission may modify these requirements if it reasonably determines it necessary as it relates to proposed placement of renewable energy systems and adjacent land uses and/or zoning.
- 5) Fencing. The facility boundary perimeter of a solar or storage renewable energy facility shall be completely enclosed by a lock gated perimeter fence at least eight (8) feet in height and in accordance with the other relevant Fencing and Protective Screening language of Section 14.26, 14.27, and 28.08 of the Township Zoning Ordinance. Additional fencing may be required for screening or security purposes in cases where the Planning Commission deems necessary. All fencing must comply with the latest version of the National Electrical Code.
- 6) Glare. Solar renewable energy systems must be placed and oriented such that concentrated solar radiation and/or glare does not project onto roadways and nearby properties. Applicants have the burden of proving any glare produced does not cause annoyance, discomfort, or loss in visual performance and visibility. An analysis by a qualified professional third-party, mutually agreeable by both the Township and applicant, shall be required to determine if glare from the utility-scale solar energy system will be visible from nearby residents and roadways. The analysis shall consider the changing position of the sun throughout the day and year, and its influence on the solar renewable energy system.
- 7) Drainage and Stormwater. Renewable solar and storage energy facilities shall not increase stormwater runoff onto adjacent properties. The application shall include a drainage plan prepared by a registered civil engineer showing how stormwater runoff shall be managed and demonstrating that runoff from the site

shall not cause undue flooding. Any necessary permits from outside agencies for off-site discharge shall be provided. It should also be reasonably demonstrated that maintenance procedures and products will not introduce chemicals or create detrimental impacts to the natural environment, groundwater, and wildlife.

- 8) Noise. The solar energy facility shall not generate a maximum sound in excess of 55 average hourly decibels as modeled at the nearest outer wall of the nearest dwelling located on an adjacent nonparticipating property. Decibel modeling shall use the A-weighted scale as designed by the American National Standards Institute.
- 9) Code Compliance. All renewable storage energy facilities, all dedicated use buildings, and all other buildings or structures that (1) contain or are otherwise associated with a renewable storage energy facility and (2) subject to the Building Code shall be designed, erected, and installed in accordance with all applicable provisions of the Building Code, all applicable state and federal regulations, and industry standards as referenced in the Building Code and the Howell Township Zoning Ordinance.

C. WIND ENERGY CONVERSION SYSTEM (WECS)

- 1) Design Safety Certification. The safety of the design of all WECS structures shall comply with all current applicable State of Michigan guidelines and standards.
- 2) Interference. All WECS structures shall be certified by the manufacturer to minimize or mitigate interference with existing electromagnetic communications, such as radio, telephone, microwave or television signals.
- 3) Setbacks. The distance between a WECS and the nearest property line and/or nearest road right of way shall be at least two and one-tenth (2.1) times the blade tip height for occupied community buildings and residences on nonparticipating properties and one and one-half (1.5) times the blade tip height from residences and other structures on participating properties, nonparticipating property lines, the public right-of-way, and overhead communication and electric transmission (not including utility service lines to individual houses or outbuildings). No part of the WECS structure, including guy wire anchors, may extend closer than ten (10) feet to the owner's property line.

All accessory equipment shall be at least one hundred (100) feet from the nearest property line. Setback requirements for all yards may be increased or decreased by the Planning Commission based upon impacts to existing land uses and/or zoning of adjacent properties.

- 4) Shadow Flicker. Each wind tower is sited such that any occupied community building or nonparticipating residence will not experience more than 30 hours per year of shadow flicker under planned operating conditions as indicated by industry standard computer modeling.
- 5) Height. Each wind tower blade tip does not exceed the height allowed under a Determination of No Hazard to Air Navigation by the Federal Aviation Administration under 14 CFR part 77.
- 6) Lighting. The WECS is equipped with a functioning light-mitigating technology. To allow proper conspicuity of a wind turbine at night during construction, a turbine may be lit with temporary lighting until the permanent lighting configuration, including the light-mitigating technology, is implemented. The Planning Commission may grant a temporary exemption from the requirements of this subparagraph if installation of appropriate light-mitigating technology is not feasible. A request for a temporary exemption must be in writing and state all of the following:
 - i. The purpose of the exemption.
 - ii. The proposed length of the exemption.
 - iii. A description of the light-mitigating technologies submitted to the Federal Aviation Administration.
 - iv. The technical or economic reason a light-mitigating technology is not feasible.
 - v. Any other relevant information requested by the Planning Commission.
- 7) Guy Wires. If an on-site WECS is supported by guy wires, the wires shall be clearly visible to a height of at least six (6) feet above the guy wire anchors.
- 8) Fencing. Facilities shall be completely enclosed by a lock gated perimeter fence at least eight (8) feet in height and in accordance with the other relevant Fencing and Protective Screening language of Section 14.26, 14.27, and 28.08 of the Township Zoning Ordinance. Additional fencing may be required for screening or

- security purposes in cases where the Planning Commission deems necessary. All fencing must comply with the latest version of the National Electrical Code.
- 9) Noise. WECS facility shall not generate a maximum sound in excess of 55 average hourly decibels as modeled at the nearest outer wall of the nearest dwelling located on an adjacent nonparticipating property. Decibel modeling shall use the A-weighted scale as designed by the American National Standards Institute.
- 10) Color. Towers and blades shall be a non-reflective neutral color.
- 11) Controls and Brakes. All commercial WECS structures shall be equipped with manual and automatic controls to limit rotation of blades to a speed below the designed limits of the WECS. The Professional Engineer must certify that the rotor and overspeed control design and fabrication conform to applicable design standards. No changes or alterations from certified design shall be permitted unless accompanied by a Professional Engineer's statement of certification.
- 12) Compliance with FAA. It shall be the responsibility of the applicant to obtain the appropriate FAA permits for the WECS structure, or to obtain a determination of no significant impact to air navigation from the FAA.
- 13) Climb Prevention. All commercial WECS structures must be protected by anticlimbing devices.
- 14) Warning Signage. A visible warning sign of High Voltage is required to be placed at the base of all commercial WECS structures. Such signs shall also be located at all points of site ingress and egress.

D. STANDARDS FOR RENEWABLE ENERGY FACILITIES

1) Abandonment, Removal, Repowering and/or Maintenance. If a renewable energy facility ceases to perform its intended function (generating electricity) for more than 12 consecutive months, the operator shall remove all associated equipment and facilities no later than 90 days after the end of the 12-month period. Where the removal has not been lawfully completed as required above, and after at least 30 days' written notice, the Township may remove or secure the removal of the renewable energy facility and/or system or if due to abandonment and/or negligence to maintain, the Township shall have the right to enter the site for the

reason of repowering the facility, in cases where repairs or replacements to the renewable energy system components are necessary, in order to properly maintain the system. The Township's actual cost and reasonable administrative charges to be covered by the operator's security bond. Charges may include the procurement of a contractor with the expertise to oversee and execute the entire set of repairs and/or maintenance to restore the site to its original capacity. Any costs incurred by the Township above and beyond the value of the security bond will be the responsibility of the operator.

2) Decommissioning. The ground shall be restored to its original condition within 60 days of removal of structures. The restoration will include returning all soil within the facility to its original environmental state of which record must be taken prior to the commencement of construction. Acceptable ground covers include grasses, trees, crops, or other material demonstrated to be characteristic of the surrounding land. All above and below ground materials shall be removed when the renewable energy facility and/or system is decommissioned. All installed landscaping and greenbelts shall be permitted to remain on the site as well as any reusable infrastructure as determined by the Township. These can include service drives, utilities, etc.

Guarantee. A letter of credit, cash deposit, or other security instrument found acceptable to the Township Board shall be posted by the owner(s) and/or operator of the Utility-scale solar energy facility. Such surety shall be equal to one-hundred twenty five (125) percent of the total cost of decommissioning and/or reclamation based on an estimate that shall be presented by the applicant and evaluated and approved by the township. The guarantee shall be increase by a minimum of 3% each year or equal to one-hundred twenty five (125) percent of a new estimate. The cost of decommissioning shall be re-reviewed and submitted to the Township annually to ensure adequate funds are allocated for decommissioning. The developer shall provide a new estimate at least every five (5) years to assess whether the guarantee should be appropriately adjusted to reflect the current decommissioning cost.

3) The applicant shall engage a certified professional engineer acceptable to the Township to estimate the total cost of decommissioning all structures in the facility in accordance with the requirements of this Ordinance, including reclamation to the original site conditions.

- 4) A security bond, if utilized, shall be posted and maintained with a bonding company licensed in the State of Michigan or a Federal or State-chartered lending institution acceptable to the Township.
- 5) Any bonding company or lending institution shall provide the Township with 90 days' notice of the expiration of the security bond. Lapse of a valid security bond is grounds for the actions defined below.
- 6) If at any time during the operation of the renewable energy facility, prior to, during, or after the sale or transfer of ownership and/or operation of the facility the security instrument is not maintained, the Township may take any action permitted by law, to revoke the special land use, order a cessation of operations, and order removal of the structure and reclamation of the site.
- 7) In the event of sale or transfer of ownership and/or operation of the renewable energy facility, the security instrument shall be maintained throughout the entirety of the process. The security instrument shall be maintained until decommissioning and removal has been completed to the satisfaction of the Township.
- 8) Provision of Manufacturers' Safety Data Sheet(s). The applicant must submit manufacturer safety data sheets for all proposed equipment. If approval is granted, applicant must provide the Township with finalized manufacturer safety data sheets both to be kept on record with the Township and on-site in a clearly marked waterproof container. Applicants must provide updated manufacturer data sheets whenever equipment is modified so that all records are up to date. Documentation shall include the type and quantity of all materials used in the operation of all equipment.
- 9) Fire Response. All electrical equipment associated with and necessary for the operations of the facility shall comply with all local and state codes. All design and installation work shall comply with all applicable provisions of the National Electrical Code (NEC).
- 10) The applicant shall provide training, at no cost to the Township, before, approximately halfway through and after construction for all emergency service departments serving the Township. Including all other requirements for permits, all three (3) trainings must have been completed to receive final zoning permits.

Trainings upon the completion and during the operation of the renewable energy facility will be conducted upon the request of all emergency service departments but not exceed four (4) trainings per any given twelve (12) month period.

- 11) The applicant shall provide a set of procedures and protocols for managing risk or fire and for responding in the event of an emergency at the facility. It will be the burden of the applicant to ensure said procedures and protocols provided to the various emergency service departments is the most up to date version.
- 12) Special equipment that may be required to ensure the safety of fire and rescue personnel when responding to an emergency at the facility shall be provided at no cost to the Township prior to commencement of construction of the facility. The authority to determine whether, and what type of, special equipment is needed shall be with the fire and/or rescue department(s) serving the Township.
- 13) The applicant shall provide for and maintain reasonable means of access for emergency services. Lock boxes and keys shall be provided at locked entrances for emergency personnel access. If any adjoining properties are damaged as a result of ingress/egress to the facility, the applicant shall remedy all damages in full.
- 14) Anticipated Construction Schedule. Applicant must provide an anticipated construction schedule which highlights when potentially hazardous materials will be brought on-site and installed.
- 15) Permits. Applicant must coordinate with all applicable agencies for required permitting including but not limited to the Livingston County Road Commission and/or Michigan Department of Transportation (MDOT) Livingston County Drain Commission, Environmental Protection Agency (EPA), Michigan Department of Environment, Great Lakes and Energy (EGLE), etc.
- 16) Photographic Record. Applicant must submit a complete set of photos and video of the entire development area prior to construction. This will be used as historical documentation for the township to secure and refer to if/when decommissioning and redevelopment activities take place.
- 17) Site Security. A security plan shall be submitted with the special land use application and site plan application for a renewable energy facility. Additional

fees may be required to cover specialized reviews of these plans and or the Township's building official's inspection of the site. The security plan shall:

- i. Show all points of secured access as well as the means for limiting access to authorized personnel only.
- ii. Along with other signage requirements in this Ordinance and the Township Sign Ordinance, install and maintain warning signage on all dangerous equipment and facility entrances.
- iii. Provide a schedule outlining the implementation and maintenance of site security as well as routine inspections to ensure site security infrastructure is intact and operating as intended.
- 18) Indemnity. Applicant will indemnify and hold the Township harmless from any costs or liability arising from the approval, installation, construction, maintenance, use, repair, or removal of the Utility-scale solar energy facility and/or system, which is subject to the Township's review and approval.
- 19) Ownership Changes: If the owner of the Utility-scale solar energy facility changes or the owner of the property changes, the special use permit shall remain in effect, provided that the successor owner or operator assumes in writing all of the obligations of the special use permit, site plan approval, and decommissioning responsibilities. A new owner or operator of the Utility-scale solar energy facility shall notify the Township of such change in ownership or operator within 30 days of the ownership change. A new owner or operator must provide such notification to the Township in writing. The special use permit and all other local approvals for the Utility-scale solar energy facility may be determined by the Township Board at a public meeting to be void if a new owner or operator fails to provide written notification to the Township in the required timeframe, unless the new owner or operator provides a reasonable explanation for any delay. Reinstatement of a void special use permit will be subject to the same review and approval processes for new applications under this Ordinance.
- 20) Location: Renewable Energy Facilities shall be permitted only within the Renewable Energy Overlay District as designated in Section 30.01. This requirement does not apply to Accessory Solar Energy Systems, as outlined in Section 16.15(G).

- E. RENEWABLE ENERGY FACILITIES SITE PLAN REQUIREMENTS. Applications for all renewable energy facilities must be accompanied by detailed site plans, drawn to scale and dimensioned and certified by a registered engineer licensed in the State of Michigan. All site plans shall conform to the requirements listed in Article XX. In addition they shall display the following information:
 - 1) Horizontal and vertical to scale drawings (elevations) with dimensions that show the location of the proposed solar array(s), wind turbines and energy storage facilities, buildings, structures, electrical tie lines and transmission lines, security fencing and all above ground structures and utilities on the property.
 - 2) Location of all existing and proposed overhead and underground electrical transmission or distribution lines within the renewable energy facility and within one hundred (100) feet of all facility boundary property lines. Use of above-ground lines shall be kept to a minimum.
 - 3) Planned security measures to prevent unauthorized trespass and access during the construction, operation, removal, maintenance or repair of the renewable energy facility. In no instance shall barbwire be used.
 - 4) A written description of the maintenance program to be used for the renewable energy facility, including decommissioning and removal. The description shall include maintenance schedules, types of maintenance to be performed, and decommissioning and removal procedures and schedules if the renewable energy facility is decommissioned. Description should include the average useful life of all primary renewable energy system equipment and components being proposed.
 - 5) Additional detail(s) and information as required by the Planning Commission and/or Township Board.
- F. RENEWABLE ENERGY FACILITIES REQUIRED STUDIES. All studies and analyses listed below may be required for renewable energy facilities as determined appropriate by the Planning Commission based on the size, location, and potential impacts of the proposed project. The Commission may waive or modify these requirements if it determines that sufficient information is otherwise available or the study is not necessary to ensure public health, safety, and welfare.

- 1) Stormwater Study. A stormwater plan prepared by a qualified professional shall be submitted in accordance with Part 31 of the Michigan Natural Resources and Environmental Protection Act (NREPA), and any applicable Township stormwater regulations. The analysis should address how site design, including layout, slope, and panel spacing, affects stormwater runoff and infiltration. Engineered stormwater solutions may be required where natural infiltration is not feasible.
- 2) Wildlife Impact Analysis. For sites with potential sensitive habitat or wildlife concerns, the Planning Commission may require the applicant to provide a wildlife and habitat assessment. This assessment should include a review of known species and habitats using available data from the Michigan Department of Natural Resources and U.S. Fish and Wildlife Service. Where applicable, the applicant shall implement best management practices and comply with relevant State and Federal endangered species protection laws.
- 3) Natural Feature Preservation Study. Applicants shall identify and preserve, to the extent feasible, significant natural features such as mature trees, wetlands, and natural grade. Tree clearing should be minimized, especially in setback areas. A tree inventory may be required for trees 6" DBH or greater if significant clearing is proposed.
- 4) Environmental Impact Analysis. The applicant shall provide a summary identifying how the proposed facility complies with relevant parts of the Michigan Natural Resources and Environmental Protection Act (Act 451 of 1994), including but not limited to:
 - Michigan Natural Resources and Environmental Protection Act (Act 451 of 1994, MCL 324.101 et seq.) including but not limited to:
 - ii. Part 31 Water Resources Protection (MCL seq.),
 - iii. Part 91 Soil Erosion and Sedimentation Control (MCL 324.9101 et seq.),
 - iv. Part 301 Inland Lakes and Streams (MCL 324.30101 et seg.),
 - v. Part 303 Wetlands (MCL 324.30301 et seq.),
 - vi. Part 323 Shoreland Protection and Management (MCL 324.32301 et seq.),
 - vii. Part 325 Great Lakes Submerged Lands (MCL 324.32501 et seq.),

- viii. Part 353 Sand Dunes Protection and Management (MCL 324.35301 et seq.).
- ix. The Township may request documentation from relevant regulatory agencies to confirm compliance with required permits and standards.

G. ACCESSORY SOLAR ENERGY SYSTEMS

- 1) Intent. Accessory Solar Energy Systems including all solar technologies and batteries for energy storage generated by the solar technologies are hereby permitted as accessory uses and subject to approval or a certificate of Zoning Compliance per Section 21.04 of this Ordinance. Typically installed at individual residential or commercial locations, use is exclusively for private purposes, and not for any commercial resale of any energy, except for the sale or credit of surplus electrical energy back to the electrical grid. Any accessory solar energy system shall be designed and size to provide for the energy needs of the principal use. The following requirements shall apply to all Accessory Solar Energy Systems for private use.
- 2) Building-Mounted Solar Energy Requirements. Any building-mounted solar energy system shall be a permitted accessory use by right in all zoning districts, subject to the following requirements:
 - i. Solar energy systems that are mounted on the roof of a building shall not project more than the highest point on the roof. Additionally, they are not to exceed the maximum building height limitation for the zoning district in which it is located and shall not project beyond the eaves of the roof.
 - ii. Solar energy systems that are wall-mounted shall not exceed the height of the building wall to which they are attached.
 - iii. Solar energy systems that are mounted on the roof or on a wall of a building, shall not be angled in such a way that glare from the surface is directed at a neighboring residential structure.

- iv. The design of accessory solar energy system, and the installation and use thereof, shall conform to the State Construction Code and all other applicable building, electrical, and fire codes.
- 3) Ground-Mounted Solar Energy System Requirements. A ground-mounted solar energy system is considered an accessory structure and may be permitted as an accessory use by right in all zoning districts, subject to the following requirements:
 - i. Ground-mounted solar energy systems may be located in the rear yard and the side yard, but must meet the required side and rear yard setbacks of the district in which they are located. Groundmounted solar energy collectors may be located within the front yard if the following criteria are met:
 - a. The parcel is located in AR district.
 - b. The principal building is located at a minimum of 200% of the required front yard setback.
 - c. Ground-mounted solar energy systems shall meet the front yard setback.
 - d. Vegetative screening materials must meet the requirements of Section 28.04.
 - ii. Ground-mounted solar energy systems shall not exceed the height of fifteen (15) feet, measured from the ground at the base of such equipment at full tilt.
 - iii. The ground-mounted solar energy systems shall not be angled in such a way that glare from the surface is directed at a neighboring residential structure.
 - iv. The design of ground-mounted solar energy systems, and the installation and use thereof, shall conform to the State Construction Code and all other applicable building, electrical, and fire codes.
 - v. The lot coverage area, as measured from edge to edge, at minimum tilt, horizontally with the ground, of the solar array shall not exceed 50% of the square footage of the primary building of the property and shall

comply with the maximum ground floor coverage referred to in Section 3.17.

Section 30.01 PURPOSE:

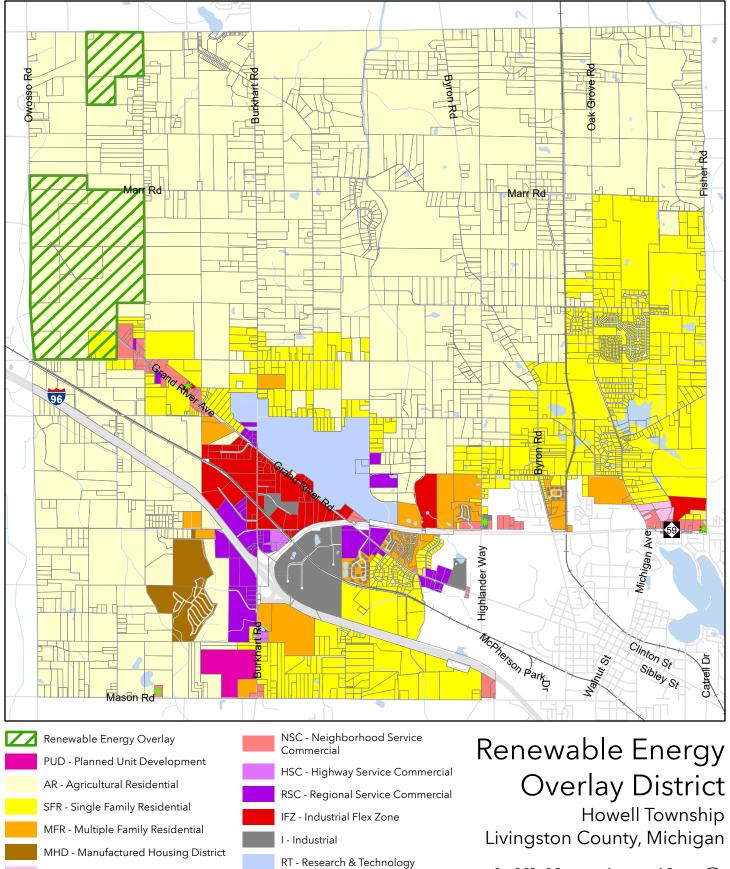
A. General Purpose Statement

It is the purpose of this Section to establish Overlay Districts that provide additional land use standards, development guidelines, or use permissions tailored to specific geographic areas or planning objectives within Howell Township. Overlay Districts are intended to address unique community goals, environmental considerations, infrastructure needs, or economic development opportunities, while maintaining compatibility with the underlying zoning and promoting the health, safety, and general welfare of the Township. These districts are designed to ensure coordinated and context-sensitive development that supports the long-term vision of the Master Plan and other adopted policies.

B. Specific Purpose Statements

1. Renewable Energy Facilities Overlay District.

It is the purpose of the Renewable Energy Overlay District to provide appropriate locations for Renewable Energy Facilities. This district is intended to ensure such facilities are developed in a location that is compatible with surrounding land uses, minimizes adverse impacts on the community and environment, and supports the safe, efficient production of renewable energy in accordance with state law. The Renewable Energy Facilities Overlay District shall be incorporated into the official Zoning Map and shall be adopted in the manor identified in Section 3.02.



Conditional Rezoning

OS - Office Service







117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

TO: Howell Township Planning Commission

FROM: Paul Montagno, AICP, Principal

Grayson Moore, Township Planner

DATE: August 20, 2025

RE: Proposed Zoning Ordinance Amendments for Portable Storage Containers

This memo addresses concerns raised at the July 22, 2025, Planning Commission meeting regarding proposed zoning regulations—specifically those related to accessory structures 200 square feet or less, as well as portable storage containers and cargo containers.

The previously adopted ordinance introduced regulations for cargo containers and portable storage units within residential districts. In response to community feedback and Planning Commission discussion, the proposed amendments clarify requirements for accessory structures 200 square feet or less and update the language governing the use of cargo containers in the Industrial Flex and Industrial Districts.

Please note the following modifications:

- Cargo containers being used to store or ship goods or building materials in the IFZ & I Districts in relation to a shipping facility shall not be subject to limitations on the number of containers permitted.
- Clarification has been added to exclude cargo containers from residential accessory building regulations in Section 14.07.
- Accessory structures 200 square feet or less are required to be located within a rear or side yard.

We look forward to discussing these proposed Zoning Ordinance amendments at your next Planning Commission meeting.

Sincerely,

CARLISLE/WORTMAN ASSOC., INC. Paul Montagno, AICP Principal

CARLISLE/WORTMAN ASSOC., INC. Grayson Moore Community Planner

SECTION 1 MODIFY SECTION 2.02, DEFINITIONS, TO MODIFY CARGO CONTAINERS DEFINITION

Cargo.Containers; A primarily metal weather-resistant container designed to store or ship goods or building materials. Such containers include reusable steel boxes, freight and bulk shipping containers, and those with similar qualities.

SECTION 2 MODIFY SECTION 4.04, PERMITTED ACCESSORY USES, TO UPDATE CARGO CONTAINER LANGUAGE AS PERMITTED ACCESSORY USES WITHIN THE AGRICULTURAL RESIDENTIAL DISTRICT

SECTION 4.04 PERMITTED ACCESSORY USES.

- A. Buildings and structures customarily incidental to the operation of an agricultural enterprise.
- B. Accessory buildings and structures customarily incidental to single family residential.
- C. Signs related to the permitted agricultural enterprise, provided that all such signs shall conform to the requirements of this Ordinance.
- D. Household Pets
- E. Cargo Containers, as an accessory structure, subject to Section 14.07

SECTION 3 MODIFY SECTION 5.05, PERMITTED CONDITIONAL ACCESSORY USES, TO INCLUDE CONDITIONS FOR CARGO CONTAINERS AS PERMITTED CONDITIONAL ACCESSORY USES WITHIN THE RESEARCH AND TECHNOLOGY DISTRICT

Section 5.05 PERMITTED CONDITIONAL ACCESSORY USES

The following accessory uses are permitted when they are an integral part of the permitted principal use or permitted principal special use and are located within the building or structure housing the permitted use or permitted principal special use or are included as a separate accessory use structure on the site plan upon the site upon which the permitted principal use or permitted principal use or permitted special use are located:

- A. Cafeterias
- B. Medical and health care facilities
- C. Office facilities
- D. Warehouses and storage facilities
- E. Recreation and physical fitness facilities
- F. Banking facilities
- G. Education, library and training facilities
- H. Research, experimentation and development facilities
- I. Truck, other vehicular and equipment maintenance and repair service

- J. Storage Facilities
- K. Sales display facilities and areas
- E. Cargo Containers, as an accessory structure, subject to Section 14.07
 - 1. Any site containing three (3) or more cargo containers shall ensure that all containers are of a similar, neutral color such as beige, gray, brown, tan, or muted green.

SECTION 4 MODIFY SECTION 8.05, PERMITTED ACCESSORY USES WITH CONDITIONS, TO INCLUDE CONDITIONS FOR CARGO CONTAINERS AS PERMITTED ACCESSORY USES WITH CONDITIONS WITHIN THE OFFICE SERVICE DISTRICT

Section 8.05 PERMITTED ACCESSORY USES WITH CONDITIONS.

- 1. Private swimming pools for use as a part of an Office District used in conformance with the provisions of Section 14.18.
- 2. Cargo Containers, as an accessory structure, subject to Section 14.07.I
 - a. No more than one cargo container is permitted per acre, with a maximum of two (2) containers per parcel.

SECTION 5 MODIFY SECTION 9.05, PERMITTED ACCESSORY USES WITH CONDITIONS, TO INCLUDE CARGO CONTAINERS AS PERMITTED ACCESSORY USES WITH CONDITIONS WITHIN THE NEIGHBORHOOD SERVICE COMMERCIAL DISTRICT

Section 9.06 DIMENSIONAL REQUIREMENTS EXCEPT AS OTHERWISE SPECIFIED IN THIS ORDINANCE.

Section 9.05 PERMITTED ACCESSORY USES WITH CONDITIONS.

- Cargo Containers as an accessory structure, subject to Section 14.07.I
 a. No more than one cargo container is permitted per acre, with a maximum of two containers per parcel.
- SECTION 6 MODIFY SECTION 10.04, PERMITTED ACCESSORY USES, TO REMOVE CARGO CONTAINERS AS PERMITTED ACCESSORY USES WITHIN THE REGIONAL SERVICE COMMERCIAL DISTRICT

Section 10.04 PERMITTED ACCESSORY USES.

- A. Normal accessory uses to all "Permitted Principal Uses."
- B. Normal accessory uses to all "Permitted Principal Special Uses." See Section 14.34. 14.

SECTION 7 MODIFY SECTION 10.05, PERMITTED ACCESSORY USES WITH CONDITIONS, TO INCLUDE CARGO CONTAINERS AS PERMITTED ACCESSORY USES WITH CONDITIONS WITHIN THE REGIONAL SERVICE COMMERCIAL DISTRICT

Section 10.06 DIMENSIONAL REQUIREMENTS, EXCEPT AS OTHERWISE SPECIFIED IN THIS ORDINANCE.

Section 10.05 PERMITTED ACCESSORY USES WITH CONDITIONS.

- A. Cargo Containers, as an accessory structure, subject to Section 14.07.I
 - 1. No more than one cargo container is permitted per acre, with a maximum of two (2) containers per parcel.

SECTION 8 MODIFY SECTION 11.05, PERMITTED ACCESSORY USES WITH CONDITIONS, TO INCLUDE CARGO CONTAINERS AS PERMITTED ACCESSORY USES WITH CONDITIONS WITHIN THE HIGHWAY SERVICE COMMERCIAL DISTRICT

Section 11.05 PERMITTED ACCESSORY USES WITH CONDITIONS.

- A. Swimming pools for use as a part of a Highway Service Commercial District. Use in conformance with the provisions of Section 14.18.
- B. Cargo Containers, as an accessory structure, subject to Section 14.07.
 - 1. Any site containing three (3) or more cargo containers shall ensure that all containers are of a similar, neutral color such as beige, gray, brown, tan, or muted green.

SECTION 9 MODIFY SECTION 12.04, PERMITTED ACCESSORY USES, TO REMOVE CARGO CONTAINERS AS PERMITTED ACCESSORY USES WITHIN THE INDUSTRIAL FLEX ZONE

Section 12.04 PERMITTED ACCESSORY USES.

- A. All normal accessory uses to all "Permitted Principal Uses" and "Permitted Principal Special Uses" including:
 - 1. Restaurants.
 - 2. Cafeterias.
 - 3. Medical and health care facilities.
 - 4. Office facilities.
 - 5. Warehouse and storage facilities.
 - 6. Physical fitness facilities.
 - 7. Work clothing sales and service facilities.
 - 8. Banking facilities.
 - 9. Education, library and training facilities.
 - 10. Research and experimentation facilities.
 - 11.Truck or other vehicular and equipment service maintenance, repair and storage facilities conducted completely within a building or structure.
 - 12. Indoor sales display areas.
 - 13.See Section 14.34.

SECTION 10 MODIFY SECTION 12.05, PERMITTED ACCESSORY USES WITH CONDITIONS, TO INCLUDE CARGO CONTAINERS AS PERMITTED ACCESSORY USES WITH CONDITIONS WITHIN THE INDUSTRIAL FLEX ZONE

Section 12.06 REQUIRED CONDITIONS OF ALL DISTRICT USES.

Section 12.07 DIMENSIONAL REQUIREMENTS, EXCEPT AS OTHERWISE SPECIFIED IN THIS ORDINANCE.

Section 12.05 PERMITTED ACCESSORY USES WITH CONDITIONS.

- A. Cargo Containers, as an accessory structure, subject to Section 14.07.
 - 1. The Planning Commission may approve an increased number of cargo containers if all the following conditions are met:
 - a. The additional containers do not adversely impact adjacent properties or the character of the district.
 - b. The primary use of the parcel is an industrial, warehousing, distribution, or a use of a similar manner where additional on-site storage is demonstrably necessary to support the principal operations.
 - c. Containers will not occupy any required parking spaces.
 - d. All containers are appropriately screened and do not obstruct access or circulation.
 - 2. Any site containing more than five (5) cargo containers shall ensure that all containers are of a similar, neutral color such as a beige, gray, brown, tan, or muted green.
 - 3. Cargo containers may be permitted in the absence of a principal building when the primary use of the lot is outdoor storage or other use where the storage function is integral to the principal use.
 - Cargo containers being used to store or ship goods or building materials associated with a storage or shipping facility shall not be subject to limitations on the number of containers permitted.

SECTION 11 MODIFY SECTION 13.05, PERMITTED ACCESSORY USES WITH CONDITIONS, TO INCLUDE CARGO CONTAINERS AS PERMITTED ACCESSORY USES WITH CONDITIONS WITHIN THE INDUSTRIAL DISTRICT

Section 13.05 PERMITTED ACCESSORY USES WITH CONDITIONS.

The following uses are permitted when they are an integral part of the building or structure or are included as a part of the site development upon which the principal use is located:

- 1) Restaurants
- 2) Medical and health care facilities
- 3) Office facilities
- 4) Warehouse and storage facilities
- 5) Recreation and physical fitness facilities
- 6) Work-clothing sales and service facilities
- 7) Banking facilities
- 8) Education, library and training facilities
- 9) Research and experimentation facilities
- 10) Truck and equipment service, maintenance, repair and storage facilities

- 11) Sales display facilities and areas
- 12) See Section 14.34
- 13) Cargo Containers as an accessory structure, subject to Section 14.07
 - a. The Planning Commission may approve an increased number of cargo containers if all the following conditions are met:
 - i. The primary use of the parcel is industrial, warehousing, distribution, or use of a similar manner.
 - ii. The containers are able to be arranged in a safe, orderly manner and do not interfere with emergency access, traffic flow, or required parking.
 - iii. All containers are appropriately screened and do not obstruct access or circulation.
 - b. Any site containing more than five (5) cargo containers shall ensure that all containers are of a similar, neutral color such as a beige, gray, brown, tan, or muted green.
 - c. Cargo containers may be permitted in the absence of a principal building when the primary use of the lot is outdoor storage or another use where the storage function is integral to the principal use.
 - d. All cargo containers must comply with the additional requirements outlined in Section 14.07.I
 - e. Cargo containers being used to store or ship goods or building materials associated with a storage or shipping facility, shall not be subject to limitations on the number of containers permitted.

SECTION 12 MODIFY SECTION 14.07 ACCESSORY BUILDING PROVISIONS, TO UPDATE CARGO CONTAINER PROVISIONS

Section 14.07 ACCESSORY BUILDING PROVISIONS.

Accessory buildings, except as otherwise permitted in this Ordinance, shall be subject to the following regulations:

A. Residential accessory building or structures, not including cargo containers, having two-hundred (200) square feet or less of internal floor area, which is used for any purpose other than the housing of humans, but is primarily to be use for the housing of non human purpose such as pets, yard equipment, yard maintenance supplies, tools, toys, including motorized or non motorized bicycles and types of household equipment, and which -structures do not have to meet the requirements of the Livingston County Construction Code and will not be built on a structural foundation as required in the Construction Code for other types of buildings shall be excluded from the requirements of this ordinance except for the following minimum standards:

- 1. The applicant shall obtain a zoning permit.
- 2. The structure shall be set back a minimum of 3 feet from all property lines.
- The structure shall be set back a minimum of 5 feet from the principal building.

4. The structure shall be located within a rear or side yard.

B. Detached accessory buildings and structures shall be located entirely in the rear yard outside of the side and rear setback with the following exceptions:

- 1. Said building or structure is being constructed pursuant to a Special Use Permit, and in that case, the Township Board after receiving the recommendation of the Planning Commission may authorize the location of the accessory building in any required yard.
- 2. For accessory buildings or structures to a residential use, if the primary residence is situated in the rear portion of a parcel over 2 acres, an accessory buildings or structure may be in the front yard if it:
 - a. Is setback at least 100 feet from the edge of the road right-of-way.
 - b. Meets the required side yard setback.
 - c. Is designed to be architecturally compatible with the principal building or structure, or screening that provides 80% opacity is provided between the buildings or structure and immediately adjacent neighboring properties and the road.
 - d. Has a roof overhang or eave of not less than twelve (12) inches on all sides, or alternatively with windowsills or roof drainage systems concentrating roof drainage at collection points along the sides of the building or structure.
 - e. In no instance shall an accessory building or structure be located within a dedicated easement right-of-way.

C. Accessory buildings located on lots and parcels in all Zoning Districts shall be subject to the following regulations:

LOT OR PARCEL AREA	REGULATION	MAXIMUM SQUARE	
REGULATION	REGULATION	FOOTAGE*	
12,000 sq. ft. to 0.9 acre	4% of lot area 800 sq. ft.		
1 acre to 1.9 acres	4% of lot area	2000 sq. ft.	
2 acres to under 19.9 acres	4% of lot area, except that		
	commercial agricultural farm	3000 sq ft.	
	operations shall be excluded	3000 sq 1t.	
	from this regulation		
20 acres and above	Subject to Max lot coverage	No limit	

D. No detached accessory buildings or structures – shall be located closer than ten (10) feet to any main building.

E. No detached accessory building or structure in AR, SFR, MFR, NSC, OS Districts shall exceed one (1) story or twenty (20) feet in height. Accessory buildings or structures in all other districts may be constructed to equal the permitted maximum height in said districts. Height shall be measured in accordance with Article II Definition 24.

- F. When accessory buildings or structures are located on a corner lot, they shall not be located in any front yard or side yard, unless it is determined by the Zoning Administrator that there is insufficient rear yard in which to locate them, in which case they may be permitted in the side yard so long as the following criteria are met:
 - 1. Insufficient rear yard shall mean there are natural features such as steep slopes, wetlands or that the location of a well or septic field would preclude the placement of such accessory building or structure.
 - 2. Front Yard: The accessory building or structure shall not encroach into the front yard
 - 3. **Side Yard Setback:** The accessory building or structure shall not encroach into the required side yard setback.
 - 4. **Height Limitation:** The height of the building or structure must not exceed 15 feet when located in the front or side yard.
 - 5. **Sight Lines at Intersections:** The accessory building or structure must not fall within a 15-foot visibility triangle at the corner of the lot.
- G. In no instance shall an accessory building or structure be allowed until there is a principal building or structure located on the lot or parcel of land.
- H. No accessory building or structure shall be used as a dwelling, lodging or sleeping quarters for human beings, except as otherwise permitted in this Ordinance.
- I. Cargo Container standards.
 - 1. The exterior appearance of all cargo containers shall be maintained in a clean and structurally sound condition, free from any visible rust, corrosion, holes, or other signs of deterioration that could compromise the container's appearance or structural integrity.
 - 2. Cargo containers shall be completely screened from view of abutting properties and/or rights-of-ways by a fence or vegetative screening that meets the requirements of Section 14.26 Fences and 28.03 Specific Landscaping Requirements for Zoning Districts.
 - 3. Cargo containers shall be subject to the requirements for Intermodal Shipping Containers in the International Building Code.
 - 4. No plumbing or electricity may be connected to a cargo container.
 - 5. No livestock or pets may be housed in a cargo container.
 - 6. Cargo containers shall not be used to store hazardous materials, as defined by the Michigan Fire Prevention Code, 1941 PA 107, MCL 29.1 et seq.
 - 7. A cargo container shall not be permitted in the front yard.
 - 8. Cargo containers to be used as accessory structures on a parcel that is not used or zoned for residential shall abide by accessory building regulations in 14.07.C.

- 9. Additional standards for Cargo Containers to be used as an accessory building or structure to a residential use.
 - i. Containers shall not be stacked above the height of a single container.
 - ii. No writing, advertising, or graphics are permitted on the exterior of the container.
 - iii. No more than one cargo container is permitted per acre, with a maximum of two containers per parcel. This limit does not apply to containers located in the Agricultural Residential Zoning District when they are used in a manner consistent with Generally Accepted Management Practices under the Michigan Right to Farm Act.



JUN 1 2 2025

HOWELL TOWNSHIP

HOWELL TOWNSHIP

Application for Site Plan Review

3525 Byron Road Howell, MI 48855 Phone: 517-546-2817 ext. 108 Email: inspector@howelltownshipmi.org

File #

Parcel ID #: 4706-21 _100 _050	Date 06/03/25
Applicant Name Ghraib Real Estate Holding #2	2, LLC Applicant Address 2820 N. Burkhart Rd., Howell, MI 48855
Phone Fax	Emai
same	
PhoneFax	Email
Please list all recipients to receive informatio	n and/or reports:
Name: Lapham Associates - Scott Bell, AIC	Email
Name:	Email
Name:	Email
Developent Descri	MED
Location of Property Burkhart Road	Current Zoning Classification MFR
Existing Use vacant	Proposed Use residential
Check One:	
✓ Preliminary Site Plan Review (20.06)	Final Site Plan Review (20.07)
Temporary Use (14.34)	Commercial/Industrial Development
Subdivision/Site Plan Condo	Multi-Family/Condo
Planned Unit Development (PUD) Type:	1 2 3 4 5
Applicant needs to provide the following site r	plan drawings: twelve (12) full size copies, eight (8) - 11" x 17" copies, and

Applicant needs to provide the following site plan drawings: twelve (12) full size copies, eight (8) - $11'' \times 17''$ copies, and an electronic set (either on an USB drive or provide an online link) for the preliminary site plan drawings. Drawings shall be submitted with an application for site plan review (20.06 a) thirty (30) days prior to the meeting.

The site plan is to contain the following information or the drawing submitted under the Land Use Permit can be utilized if it also contains the following information and is accurately drawn to scale:

- a. The date, north arrow and scale. The scale shall be not less than 1'' = 20' for property under three (3) acres and at least 1'' = 100' for those (3) acres or more.
- b. Statistical data including number of dwelling units, size of dwelling units, if any, and total gross acreage involved. In the case of a mobile home park, the size and location of each mobile home site shall be shown.
- c. The location and height of all existing and proposed structures on and within 100' of the subject property's boundary.
- d. All lot and/or property lines are to be shown and dimensioned, including building setback lines on corner lots.
- e. The location and dimensions of all existing and proposed drives, sidewalks, curb openings, signs, exterior lighting, curbing, parking areas (show dimensions of a typical parking space), unloading areas and recreation areas.
- f. Vehicular traffic and pedestrian circulation features within and without the site.
- g. The location of all proposed landscaping, fences, or walls.
- h. Size and location of existing and proposed utilities, including proposed connection to public sewer or water supply system.
- i. A location map indicating the relationship of the site to the surrounding land uses.
- The location and pavement width and right-of-way width of all abutting roads, streets, alleys, or easements.
- k. Show properties and respective zoning abutting the subject property.
- I. The location and size of all surface water drainage facilities.
- m. Contour intervals shall be shown at a maximum of 2' intervals, with 1' intervals preferred for topographic features of the site.

By signing below the applicant understands and acknowledges the following statements:

- a. The Planning Commission has sixty (60) days from filing date to approve or deny site plan.
- b. Approval of preliminary site plan is valid for a period of one (1) year from date of approval.
- c. A one (1) year extension may be granted upon written request of the applicant and approval by the Planning Commission.
- d. Approval of preliminary site plan shall expire one year after approval of final site plan unless zoning permit has been obtained.
- e. Approval of the final site plan expires six (6) months after approval unless a land use permit application is applied for and granted.

- f. The final site plan approval shall expire one (1) year following the date of approval unless construction has begun on the property in accordance with the plan.
- g. Applicant may appeal the Planning Commission's ruling of the final site plan to the Board of Appeals within ten (10) days of the Planning Commission's decision on all matters except use of the land, use of buildings, or structures.
- h. The Planning Commission has sixty (60) days from the date of the Planning Commission meeting at which the final site plan was received to approve or deny the final site plan.
- i. Improvements not in conformance with the final site plan shall be deemed a violation of the ordinance and be subject to the penalties of the ordinance.
- Sewer system and water system tap in fees, if applicable, must be paid prior to issuance of a land use permit.

Applicant herby deposes and says that all the above statements and information contained in this application and any statements submitted herewith or on the site plan are true and accurate.

Nidhal Ghraib

Owner Signature

Print Name

Subscribed and sworn to before me this 3rd day of June 2025.

Oakland County, Michigan

Notary Public

My Commission Expires: May 4, 2029.

NOTARY PUBLIC

DEBORAH K. WAGNER
My Commission Expires
May 4, 2029
County of Oakland
Acting in the County of

Proposed Senior Housing Development

Prepared For Ghraib Real Estate Holdings #2, LLC

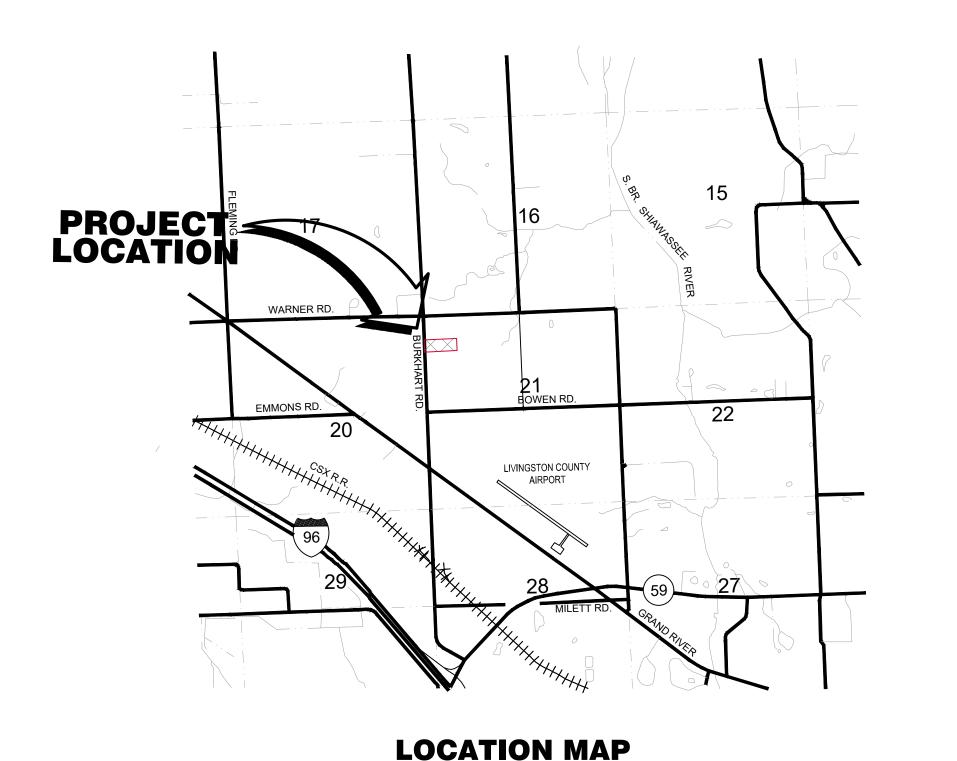
Section 21, Howell Township, Livingston County, Michigan

SITE ADDRESS: 28xx N. Burkhart Road, Howell, MI 48855

Property Description:

Being part of the Northwest one-quarter of the Northwest one-quarter of Section 21, T03N, R04E, Howell Township, Livingston County, Michigan. More particularly described as follows: Commencing at the Northwest corner of said Section 21; thence SOUTH, along the West line of said Section 21 and the centerline of Burkhart Road, 656.03 feet to the Point of Beginning of the land herein described; thence continuing SOUTH, along said West Section line, 290.88 feet; thence N89°57'54"E, 922.48 feet; thence N00°03'29"W, 286.75 feet; thence N89°46'43"W, parallel with the North One-eighth line in the Northwest one-quarter of said Section 21 as occupied and previously surveyed, 922.19 feet back to the Point of Beginning. Containing 6.1 acres more or less, and being subject to restrictions, easements, rights-of-way, zoning, governmental regulations and matters visible, if any, upon or affecting said lands.

TOGETHER WITH AND SUBJECT TO a 66 feet wide easement for ingress, egress, and the installation and maintenance of public utilities with a center line described as Commencing at the Northwest corner of Section 21, T03N, R04E, Howell Township, Livingston County, Michigan; thence SOUTH, along the West line of said Section 21 and the centerline of Burkhart Road, 946.91 feet to the Point of Beginning of said easement; thence N89°57'54"E, 922.49 feet to the Point of Ending.



Scale: 1" = .25 Mile±

Submission Table:

June 3, 2025 Submit initial site plans to Township of Howell for their initial review for Site Plan.

July 29, 2025 Submit revised site plans to address comments from Township's consultant in Site Plan Review dated July

16, 2025.

Sheet Index:

C-1	Cove	r Sheet
	_	

General Notes

Topographic Survey Demolition Plan

Site Plan

Driveway Dimension Plan

Density Plan

Grading Plan

Detail Grading Plan

Photometrics Plan

Landscaping Plan **Utility Plan**

C-9.1 Water Main Plan & Profile

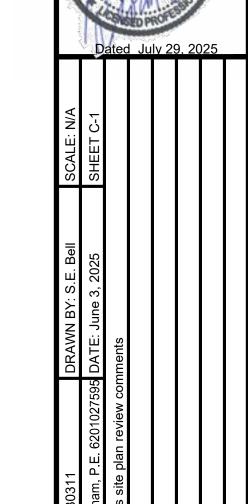
C-9.2 Water Main Details C-10 Storm Water Management Plan

C-11 SESC Plan C-11.1 SESC Plan

C11.2—SESC Key N-1 Specifications

N-2 Specifications

Note: Strikethrough text not included in initial site plan submittal



Proposed Ghraib Re



- 1. **SOIL EROSION:** The contractor shall submit a detailed Soil Erosion and Sedimentation Control plan and obtain an Act 451 Part 91, Soil Erosion and Sedimentation Control permit. This includes the payment of fees and the providing of necessary bonds. No earth changes or excavation shall be started prior to the issuance of this permit. The contractor shall protect all existing and proposed storm sewer facilities on and adjacent to the site during excavation and construction. All sediment shall be contained on site. Any silt in county drains, storm sewer, culverts, etc. as a result of this project, shall be removed by the contractor at the cost of the CONTRACTOR.
- 2. FLOOD PLAIN OR WETLAND CONSTRUCTION: If required, the developer shall apply to the Michigan Department of Environmental Quality for a permit for the alteration and/or occupation of a flood plain or floodway, as required under PA 451. Evidence of this permit may be required prior to plan approval by Howell Township.
- 3. NPDES STORM WATER DISCHARGE PERMIT: If required the owner of the property shall obtain a NPDES Storm Water Discharge permit for construction activities from MDEQ as required under Public Act 451. The notice of coverage form shall be submitted through Commerce Township with the Soil Erosion Control permit application. All MDEQ fees shall accompany the Notice of Coverage.
- 4. LIVINGSTON COUNTY ROAD COMMISSION PERMIT: If required, the contractor shall obtain a permit from the Livingston County Road Commission to perform work within the Livingston County Road Commission Right-of-Way. All fees for the permit, bonds and insurances are the responsibility of the contractor.
- 5. MUNICIPALITY SANITARY SEWER AND WATER PERMIT: Prior to the issuance of a building permit by the local municipality, the developer shall be required to obtain a sanitary sewer and/or water tap-in permit from the local municipality.
- **6. STATE CONSTRUCTION PERMITS**: If required, the watermain construction permit from the Michigan Department of Environmental Quality shall be submitted to the MDEQ after approval of Howell Township. Construction shall not begin until this state permit is issued.
- 7. Utility Warning Underground locations as shown on the plans were obtained from utility owners, and were not field located. A minimum of three (3) working days prior to beginning construction, the contractor shall notify "MISS DIG" (800-482-7171) and have all underground utilities staked before any work may begin. The contractor shall be responsible for the protection and/or relocation of all utilities that may interfere with construction. Three (3) Working Days Before You DIG - Call MISS DIG (1-800-482-7171).

FLOODZONE MAP

National Flood Hazard Layer FIRMette

OTHER NOTES

The contractor shall be responsible to review and be familiar with all portions of these plans. Any discrepancies between different portions of the plans shall be brought to the attention of the Engineer and shall be resolved prior to construction.

BENCHMARKS

Benchmark #1

Arrow top nut on fire hydrant on west side of Burkhart Road 200' north of property. Elevation 647.06 (NAVD 88)

Benchmark #2

Arrow top nut on fire hydrant on west side of Burkhart Road directly across from the entrance drive onto property. Elevation 652.40 (NAVD 88)

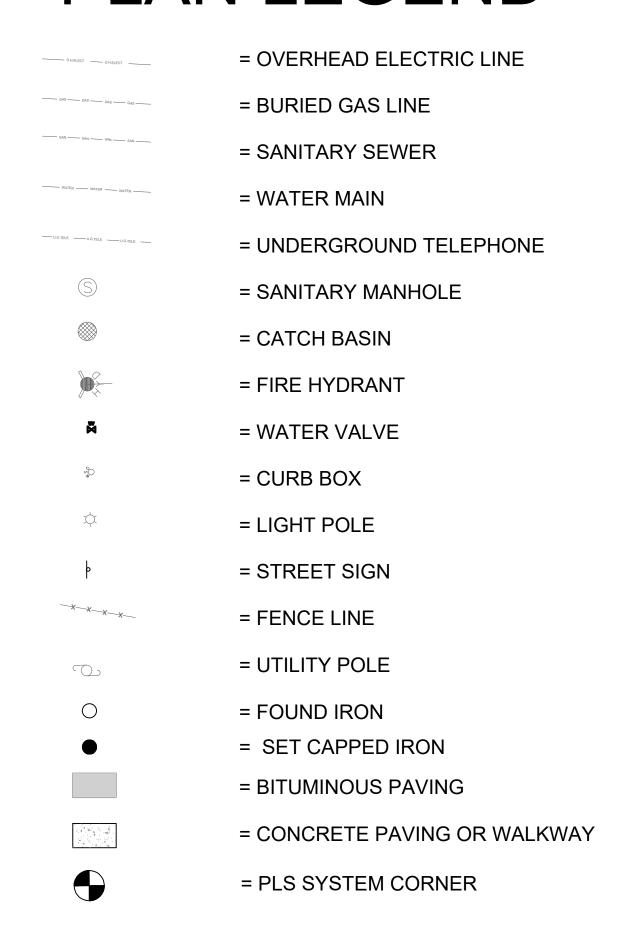
Benchmark #3

National Wetlands Inventory

May 2, 2025

Arrow top nut on fire hydrant on west side of Burkhart Road 450' south of the entrance drive. Elevation 656.64 (NAVD 88)

PLAN LEGEND



ABBREVIATIONS

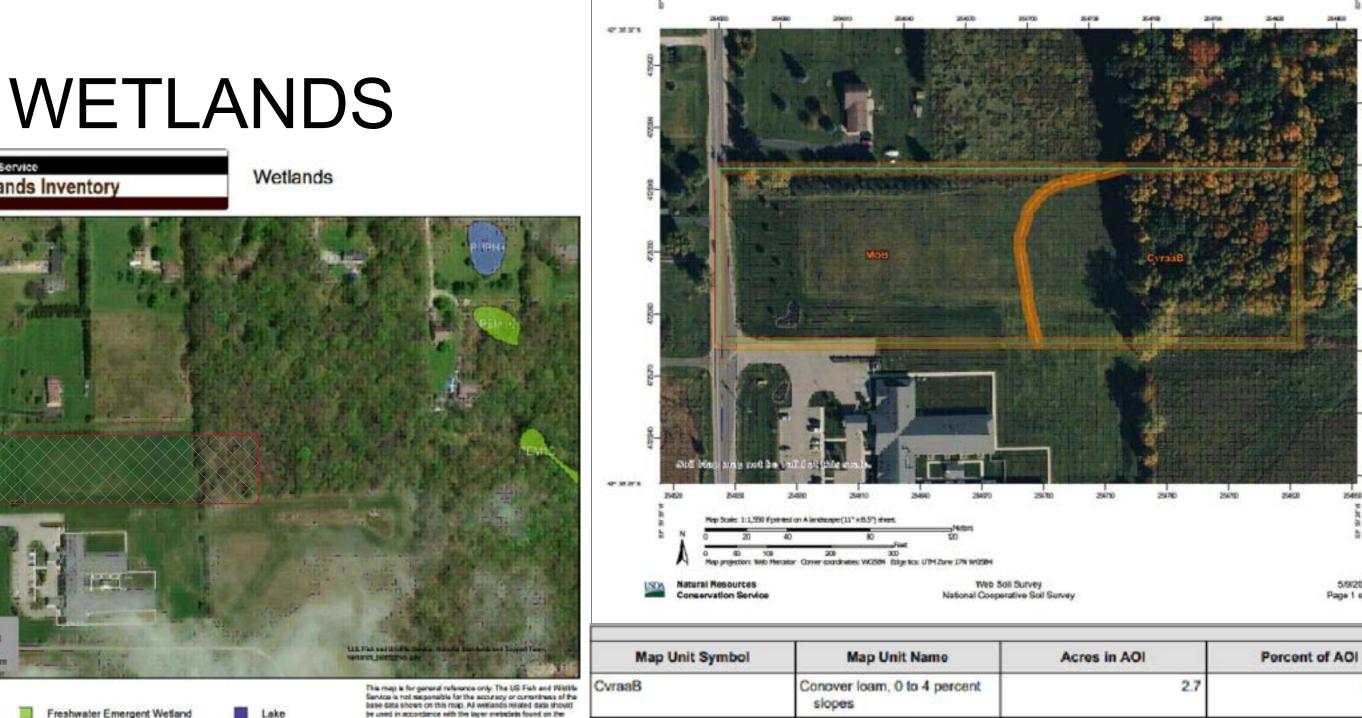
Definitions

LIST OF ABBREVIATIONS

A.C. A.F.C. ASPH. ASTM AWS AWWA BLDG. CIP CL CONC. C.Yd. or CYD DR EA EJ ELEV.	Alternating Current Adult Foster Care Asphalt Paving American Society of Testing Materials American Welding Society American Waterworks Association Building Compacted in place Class Concrete Cubic Yard Dimension Ratio Degrees Each East Jordan Iron Works
ELEV. EX	Elevation Existing
F.F.	Finish Floor
G.P.M.	Gallons Per Minute
I.Q.	Inside Diameter
lnv.	Invert
Lbs. LFT	Pounds Lineal Feet
L.S.	Lump Sum
Max.	Maximum
MDOT	Michigan Department of Transportation
M.H.	Manhole
Mil.	Millimeter
Min.	Minimum
MUW	Maximum Unit Weight at optimum moisture content
No.	Number
NSF	National Sanitation Foundation
OSHA PSIGP	Occupational Safety Health Administration
PVC	Pounds per square inch gauge Polyvinyl Chloride
R.O.W. or R/W	Right-of-Way
RAD.	Radius
SDR	Standard Dimension Ratio
SYD	Square Yard
T.D.H.	Total Dynamic Head
V.L.F.	Vertical Lineal Feet
'	Minutes of angles or Feet
0/	Seconds of angles or Inches
% #	Percent
#	Pounds

NRCS SOILS MAP

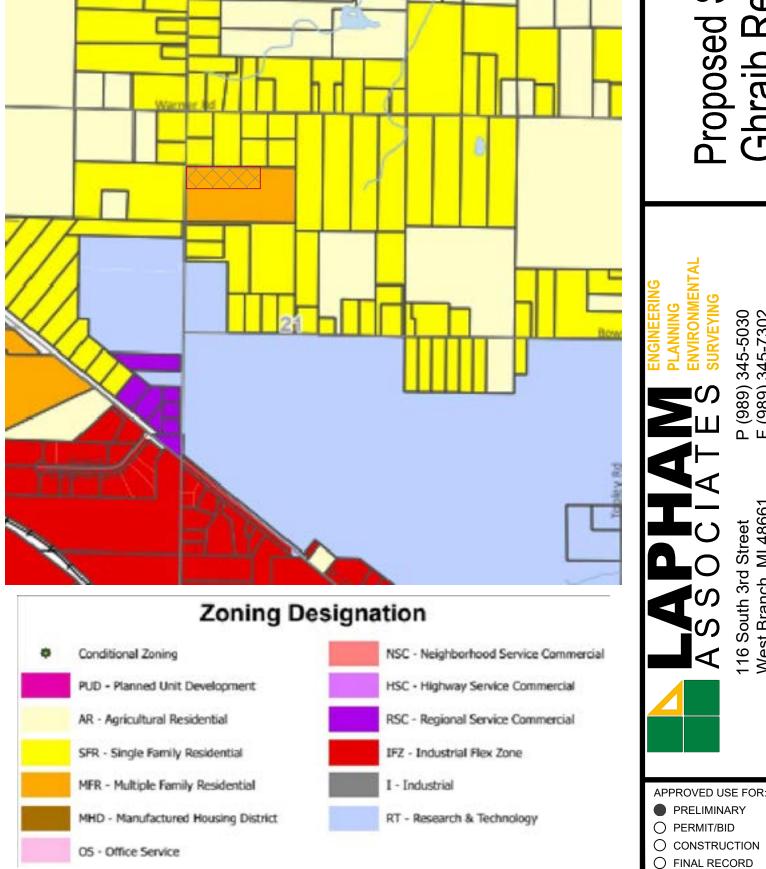
= PROPOSED LIGHT POLE



Totals for Area of Interest

Nawasee loam, 2 to 6 percent

ZONING MAP



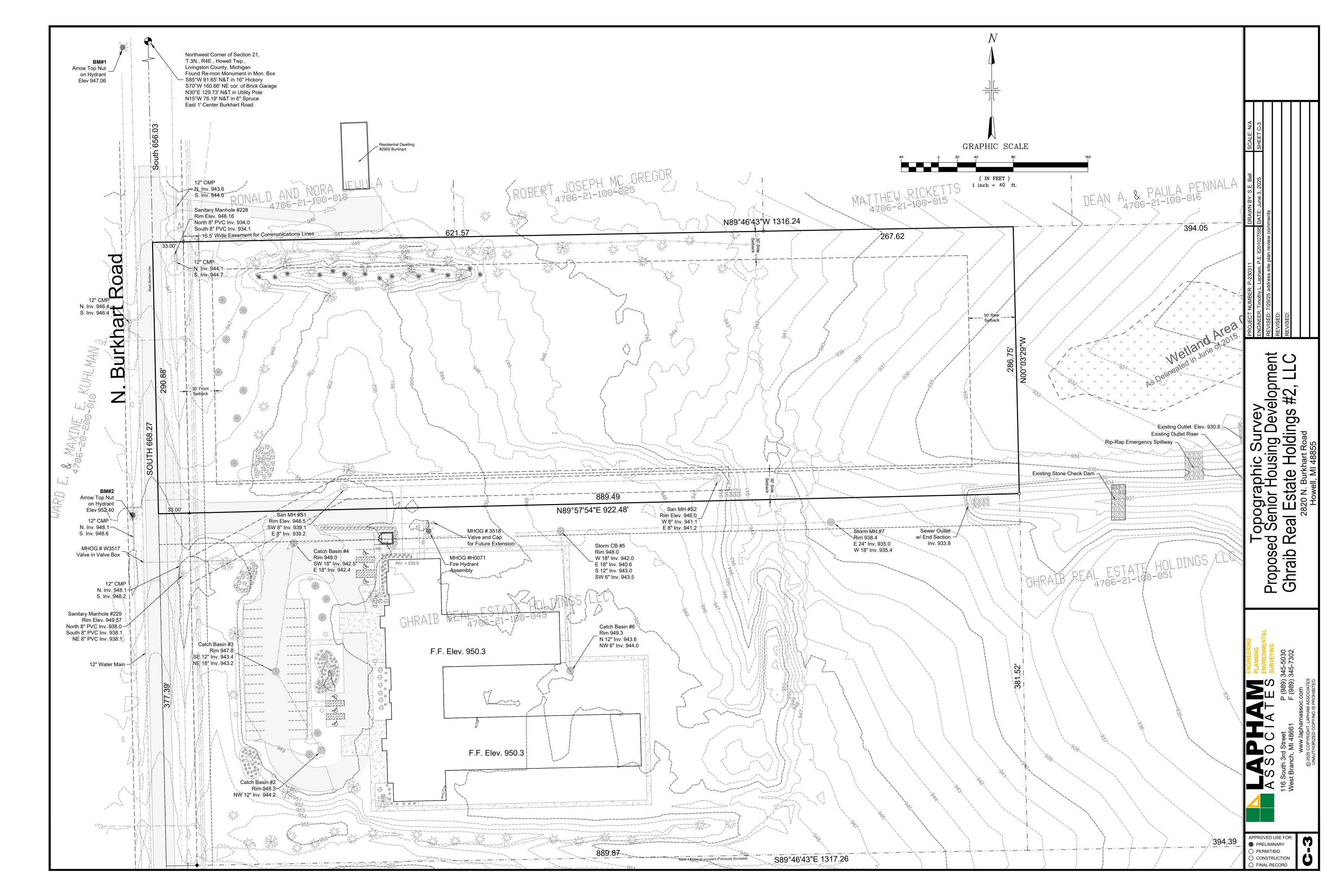
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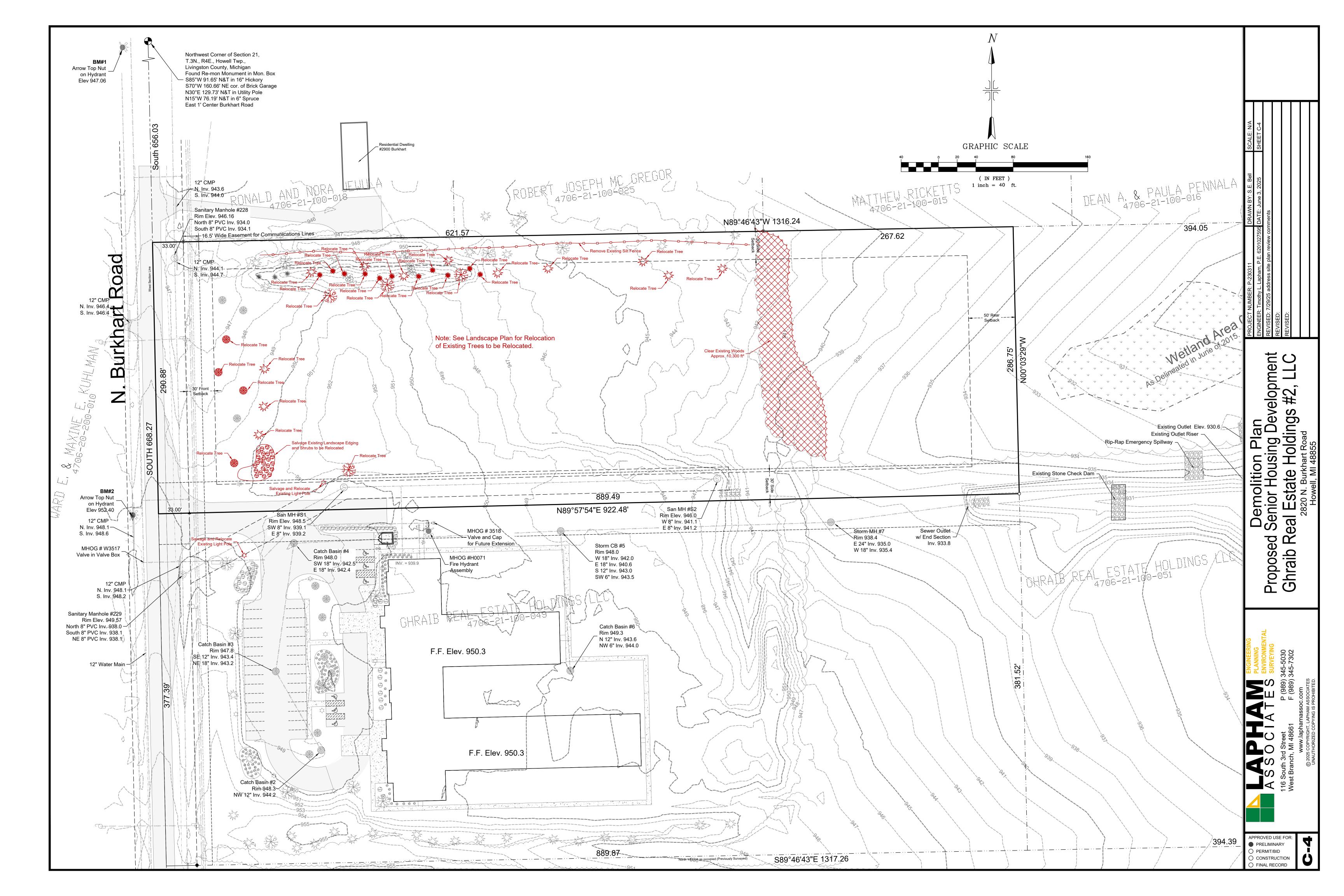
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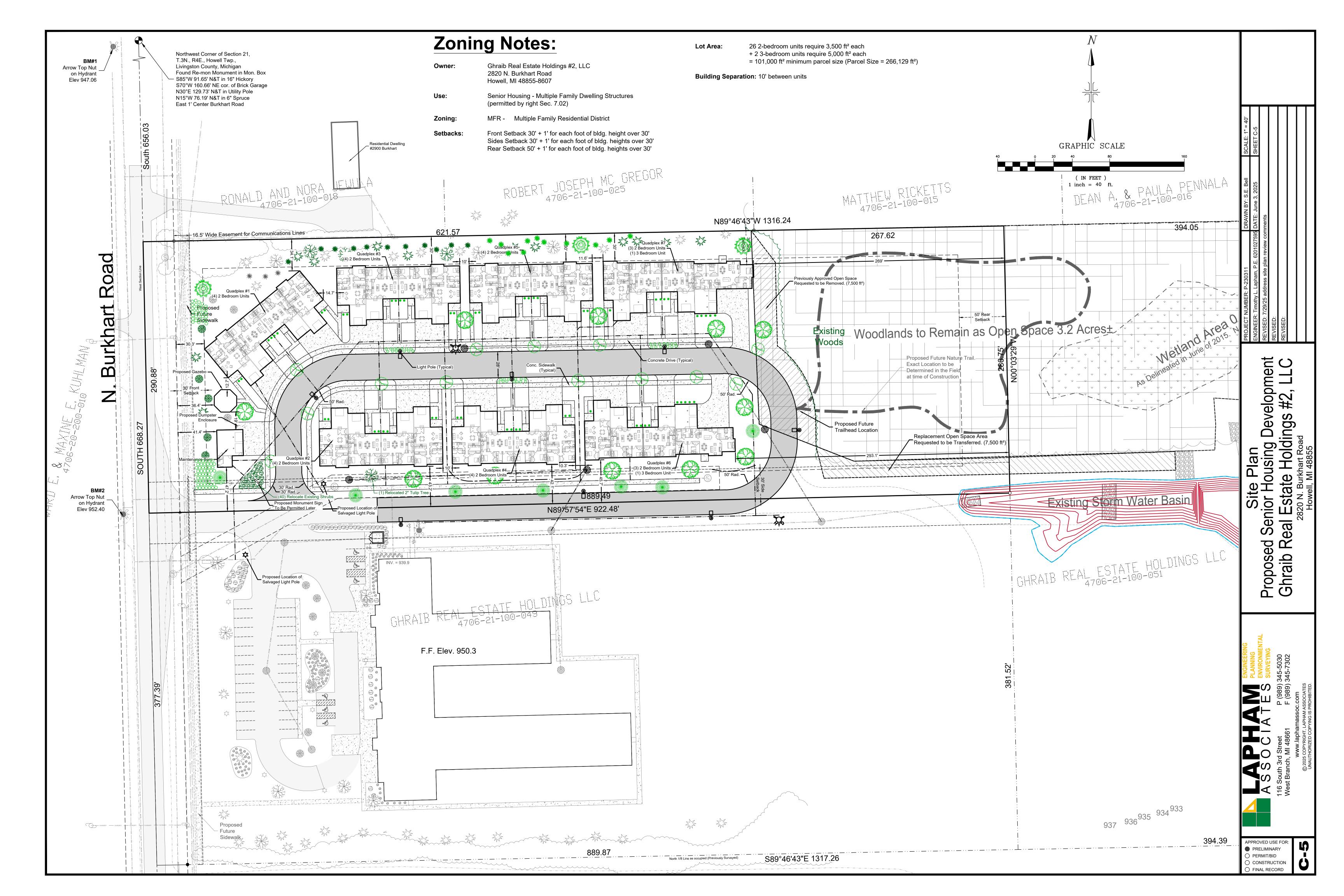
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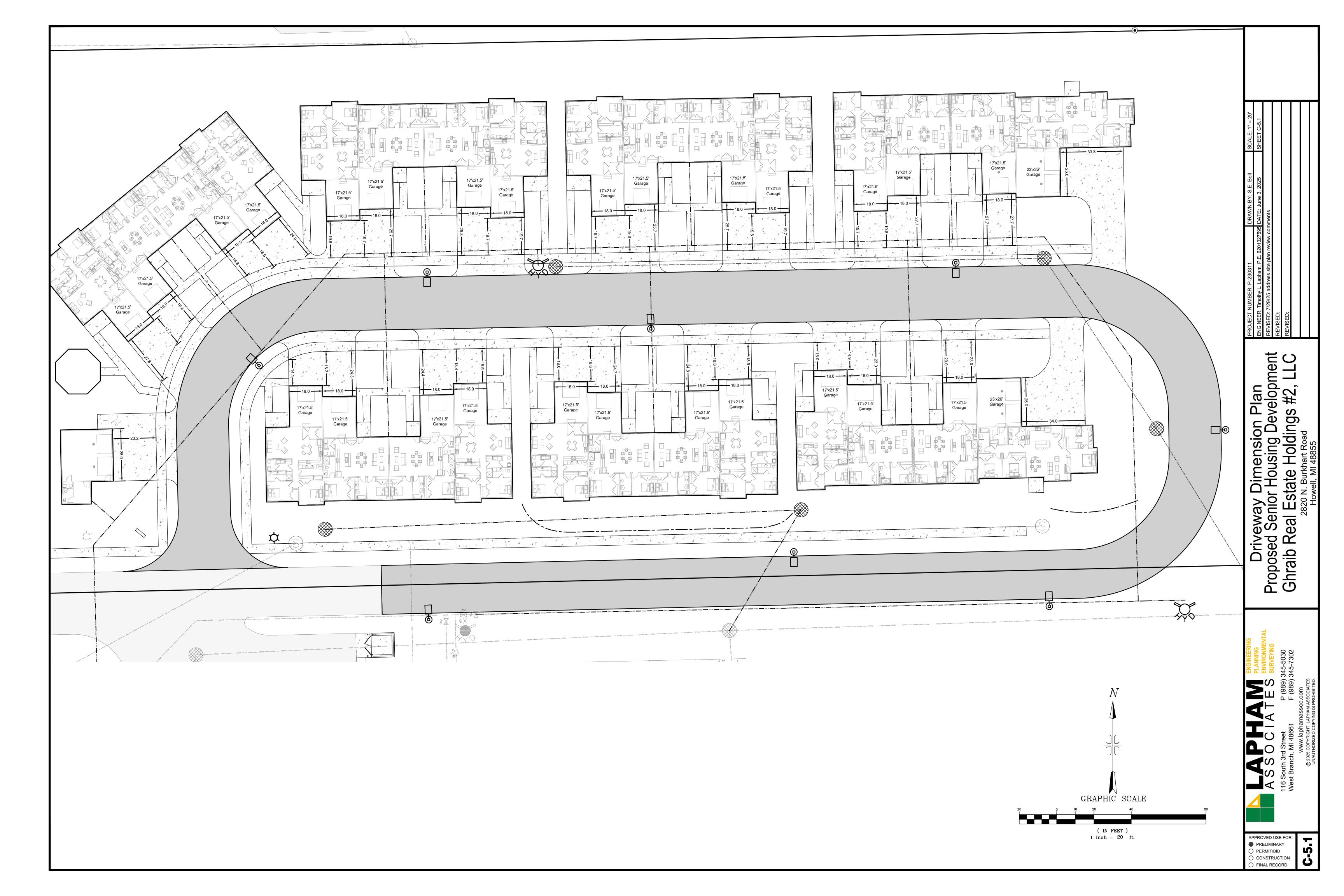


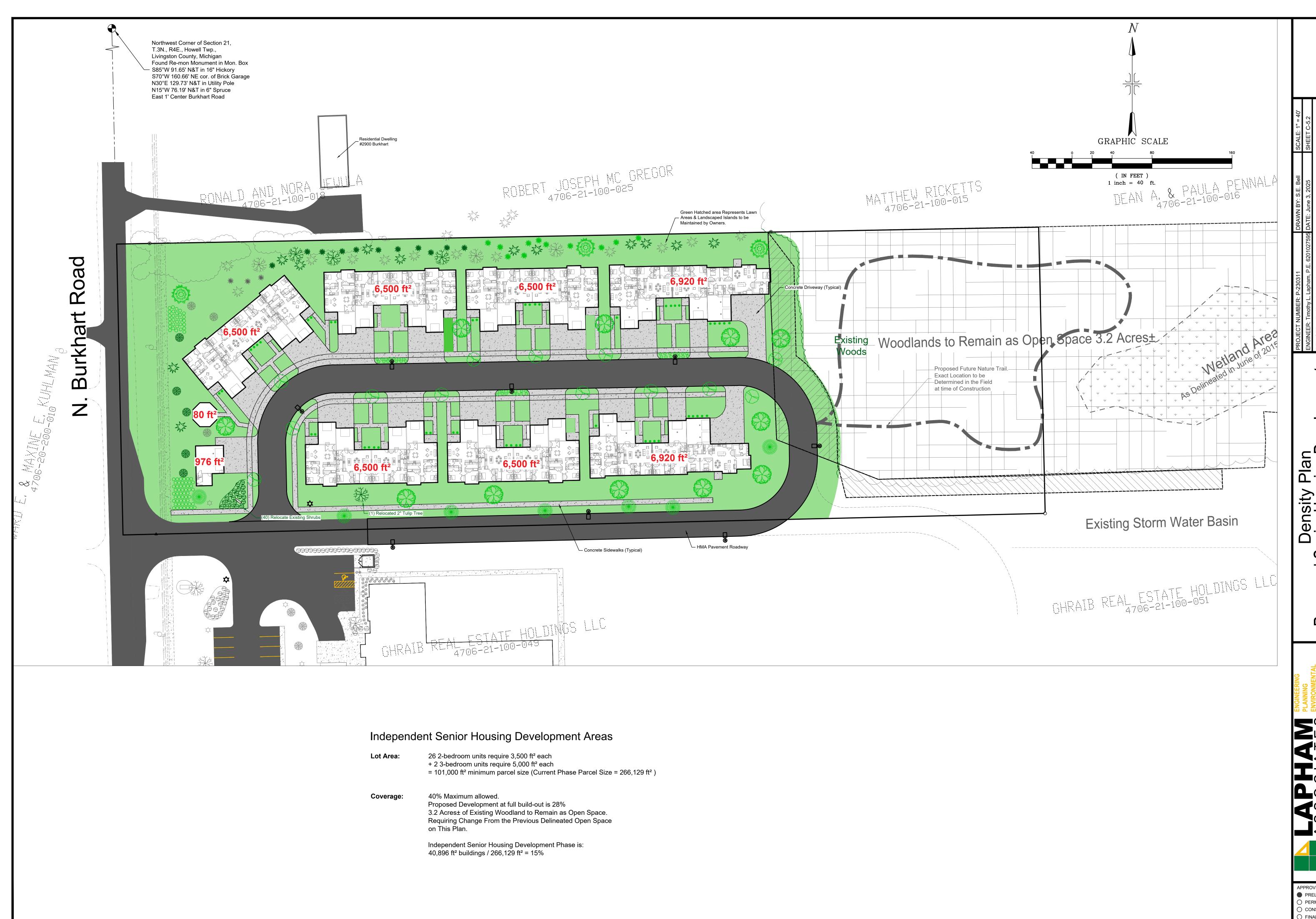
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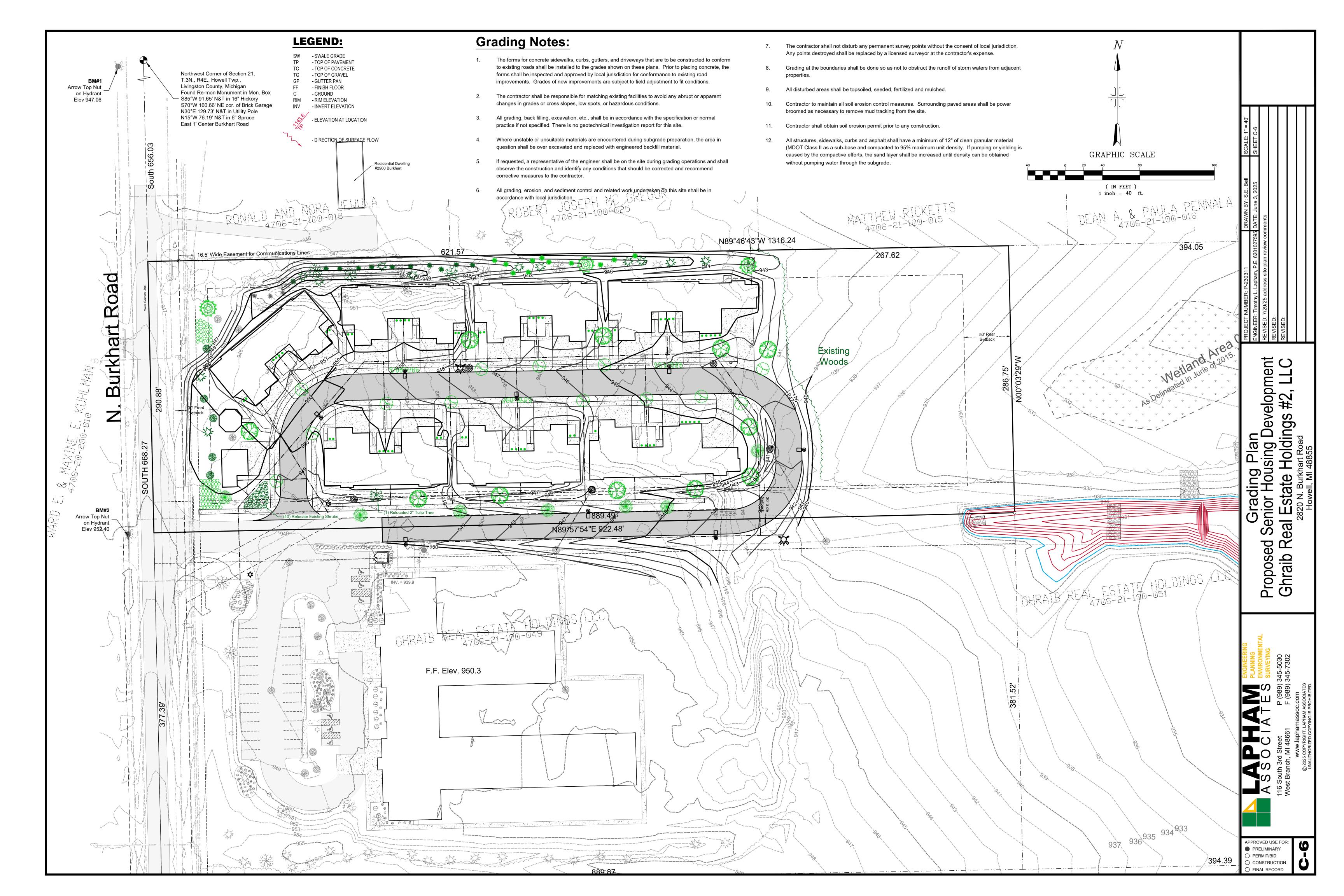


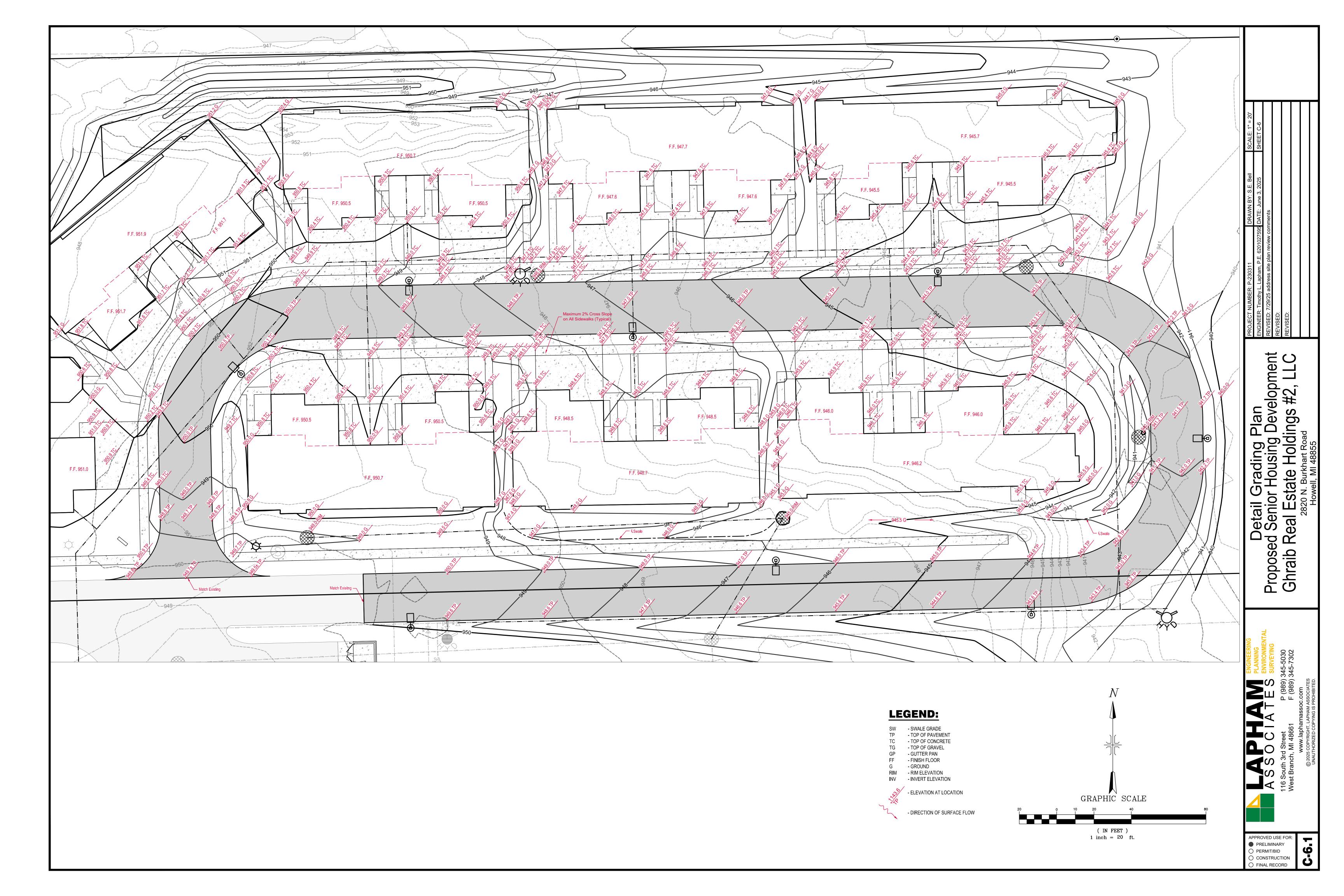


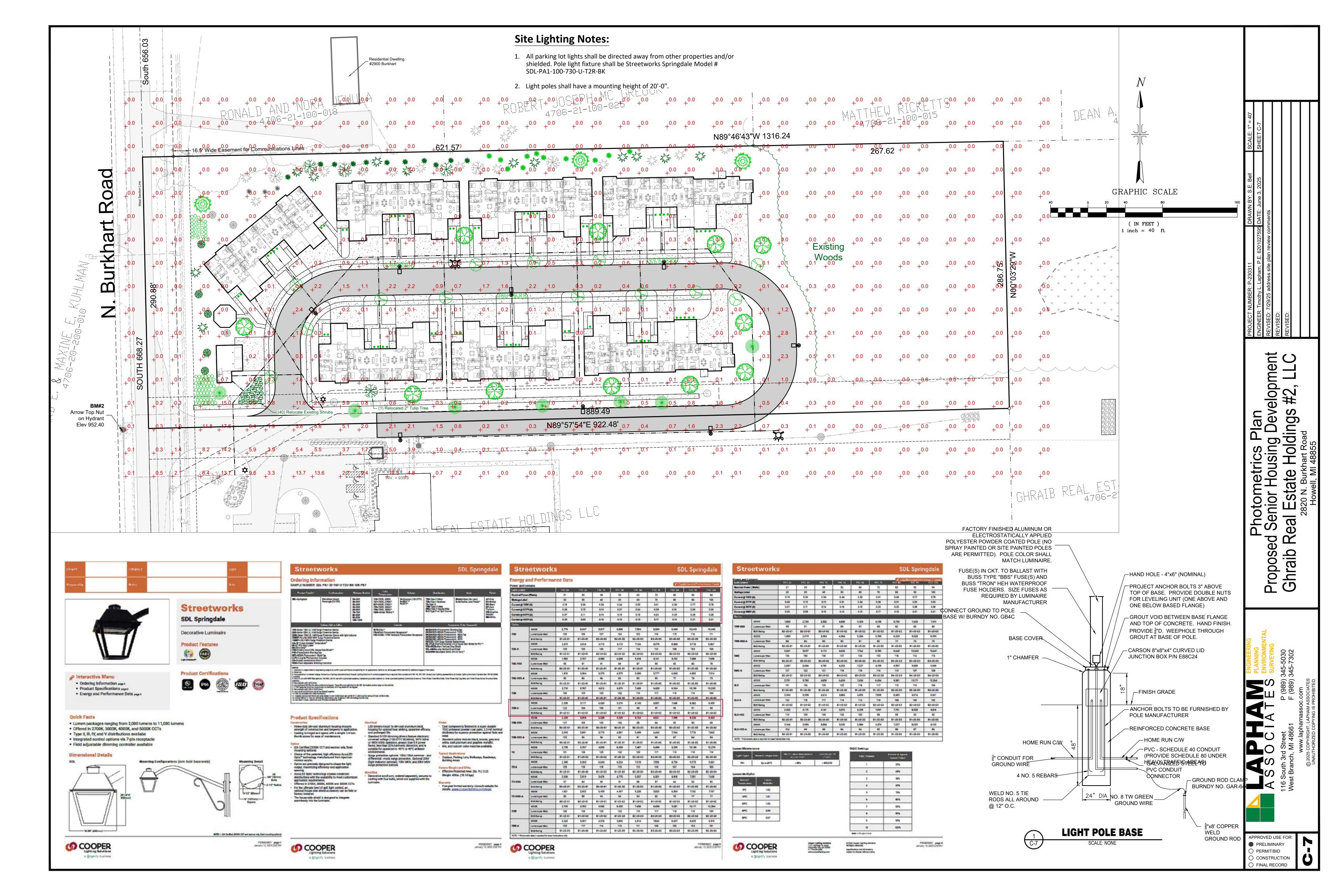


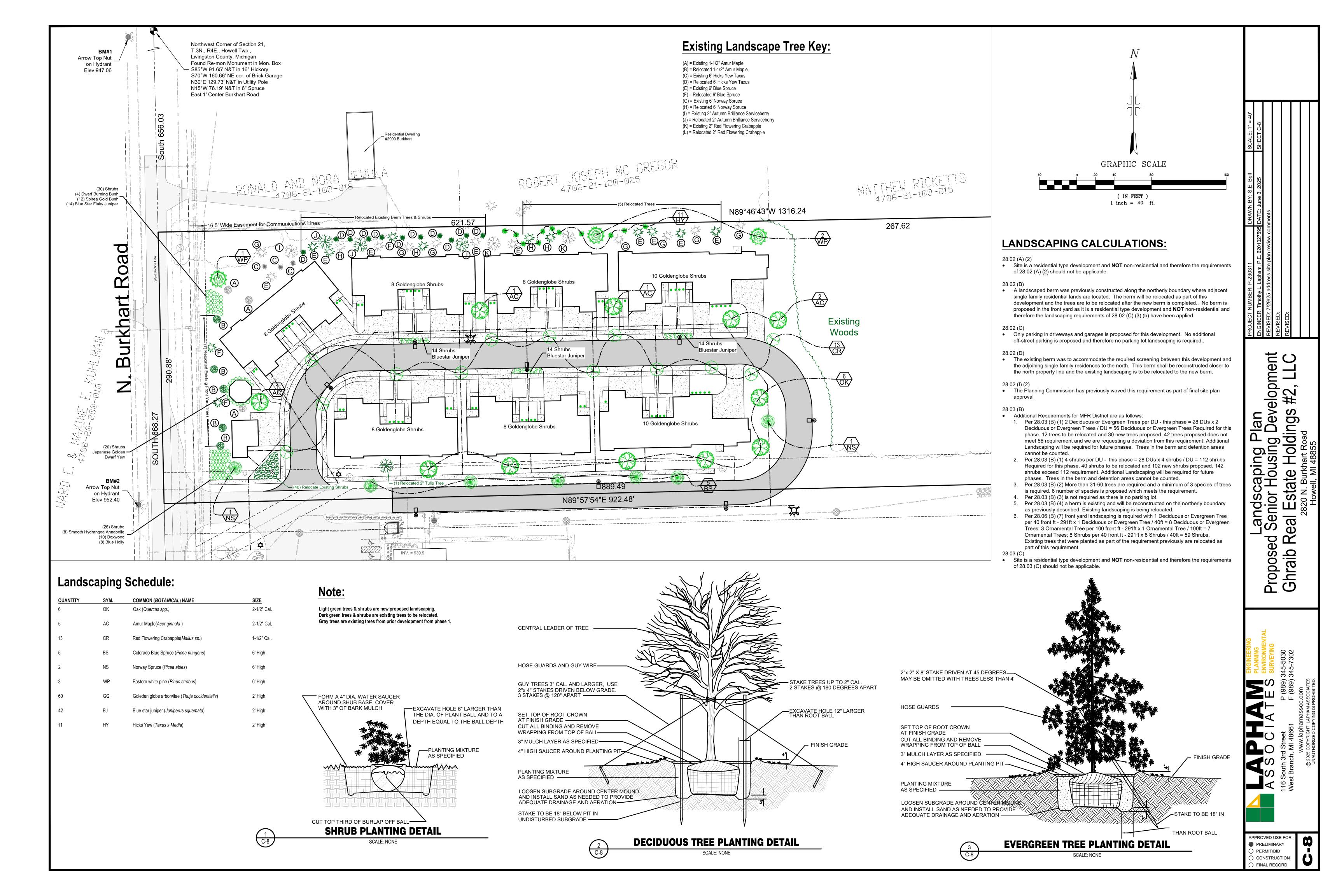
Density Plan
Proposed Senior Housing Development
Ghraib Real Estate Holdings #2, LLC
2820 N. Burkhart Road
Howell, MI 48855

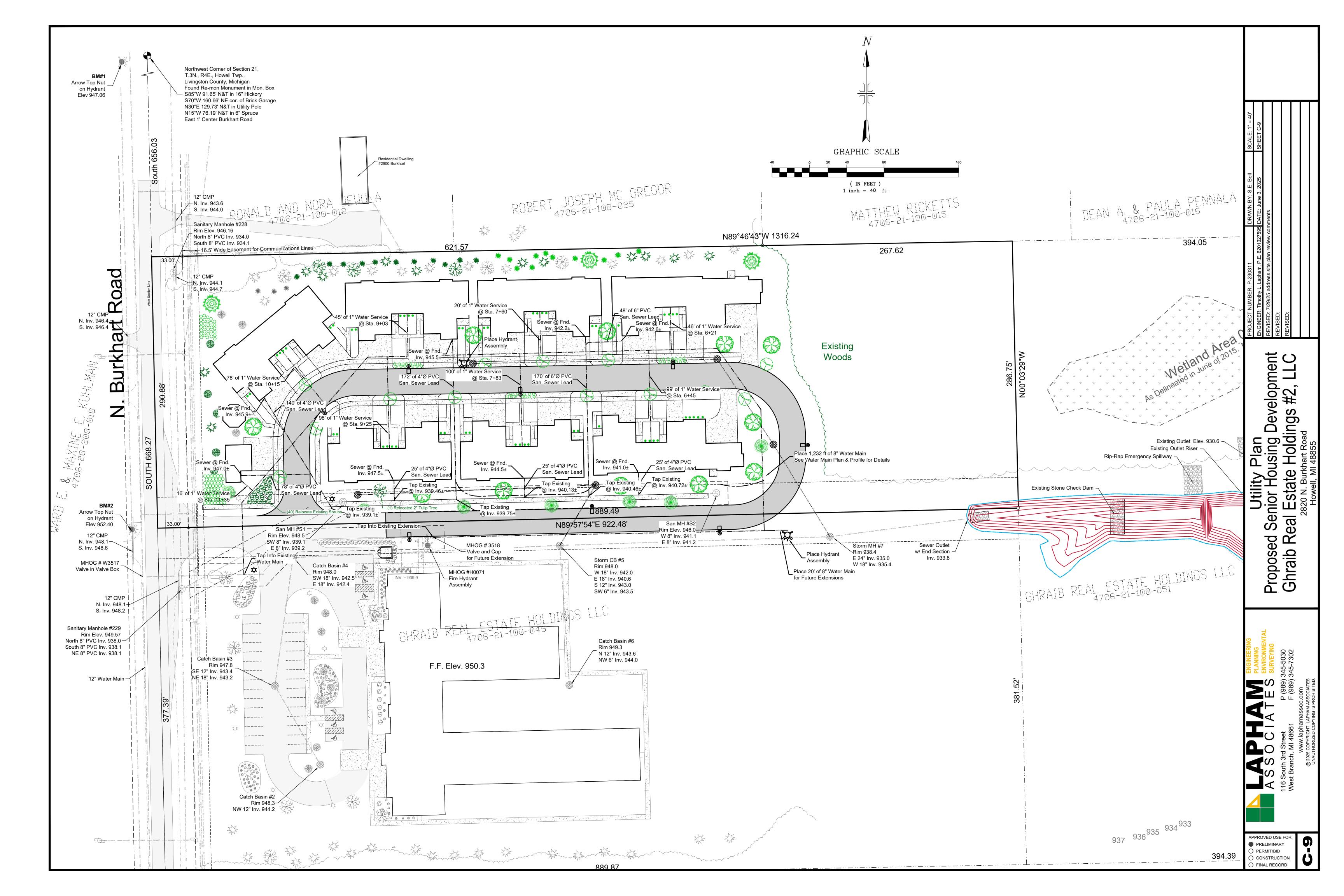
APPROVED USE FOR: PRELIMINARY O PERMIT/BID CONSTRUCTION O FINAL RECORD

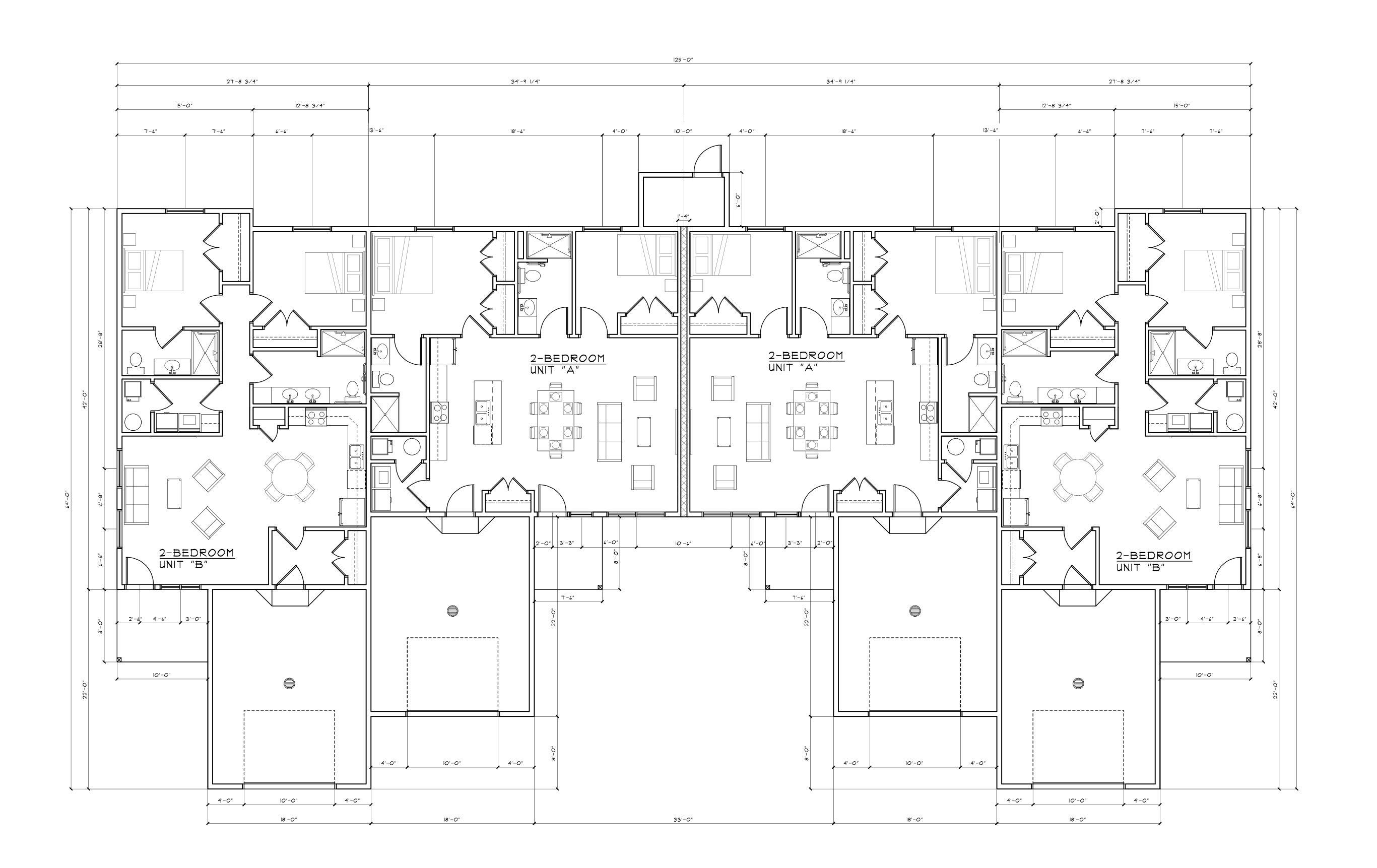






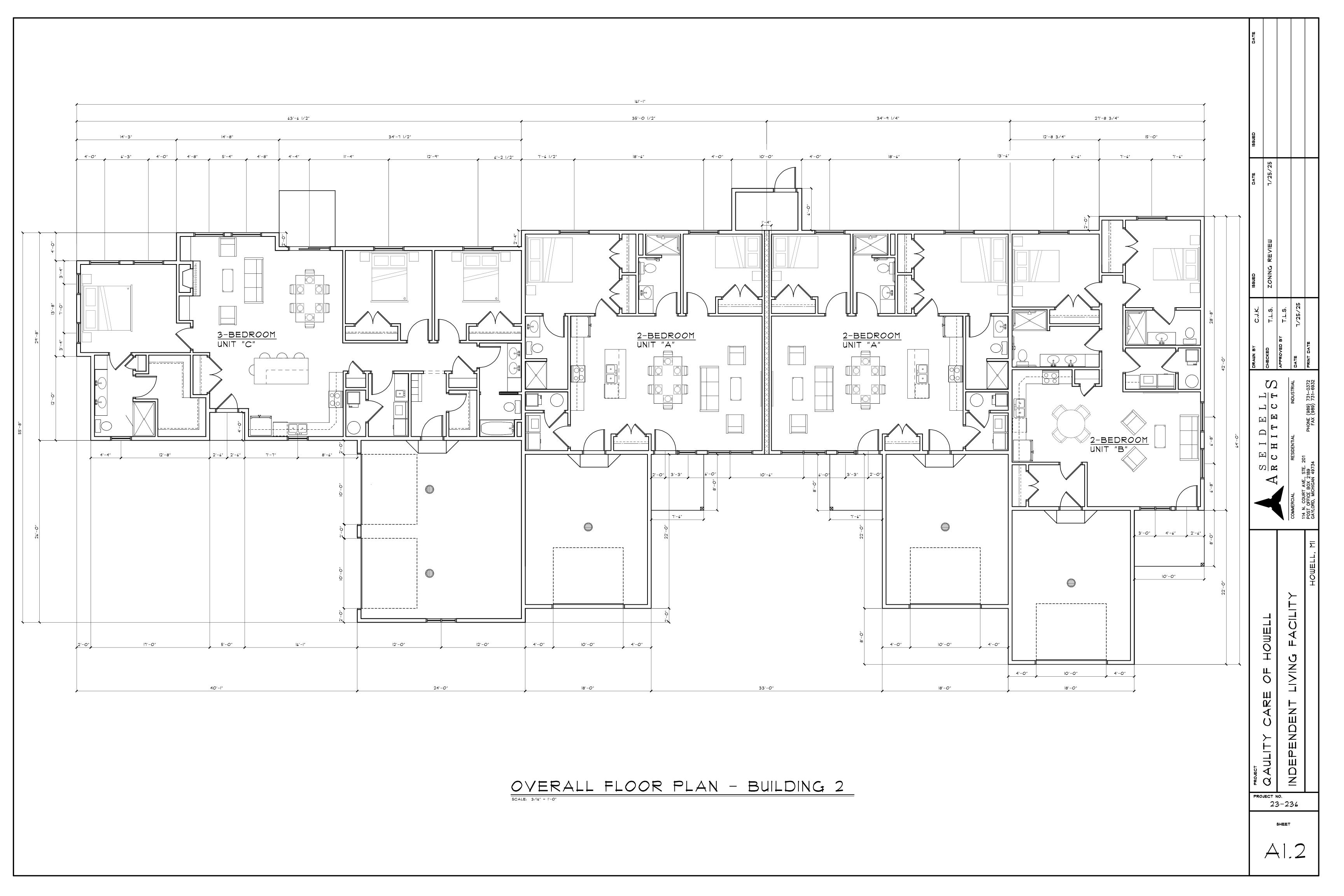


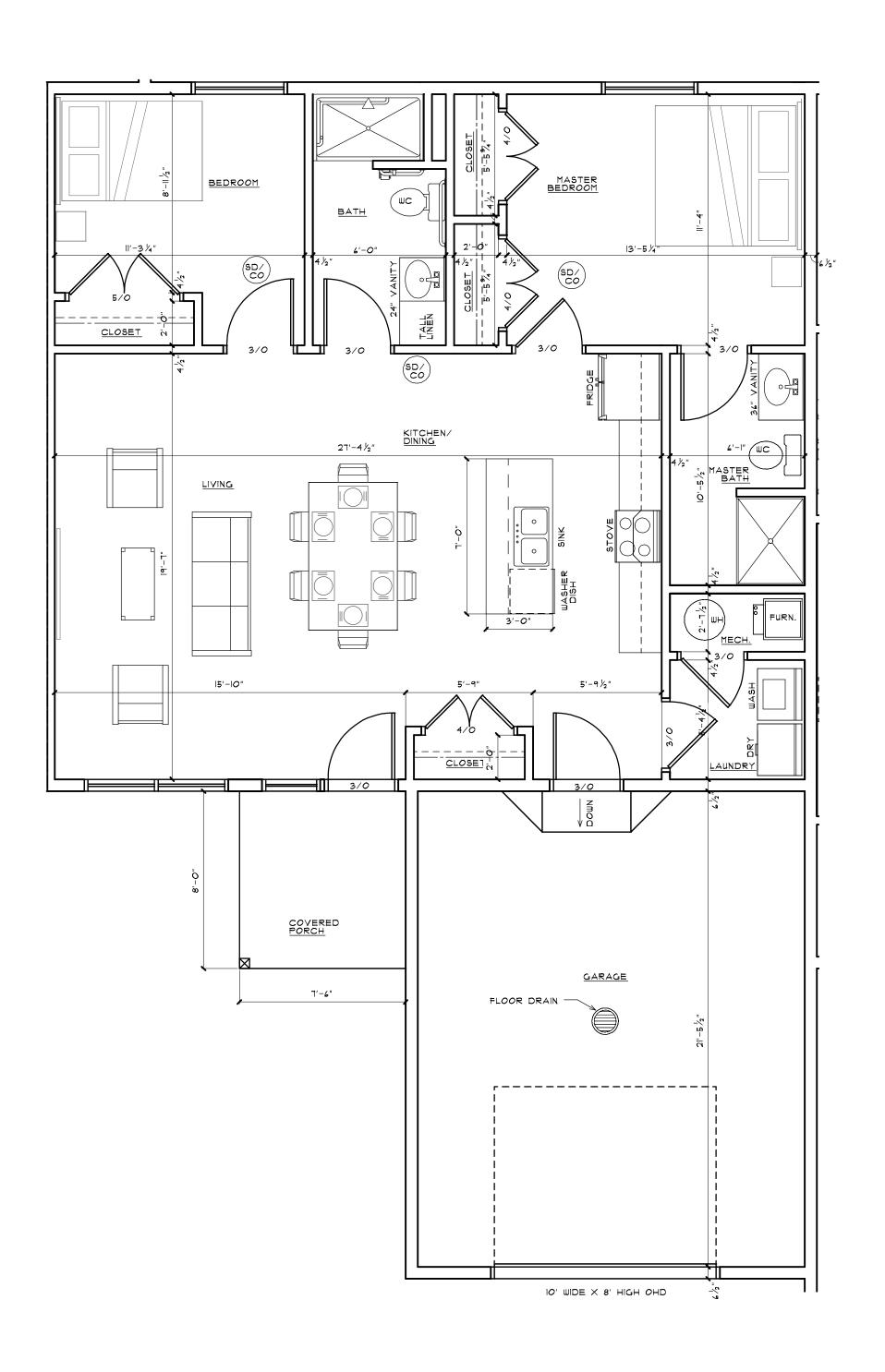


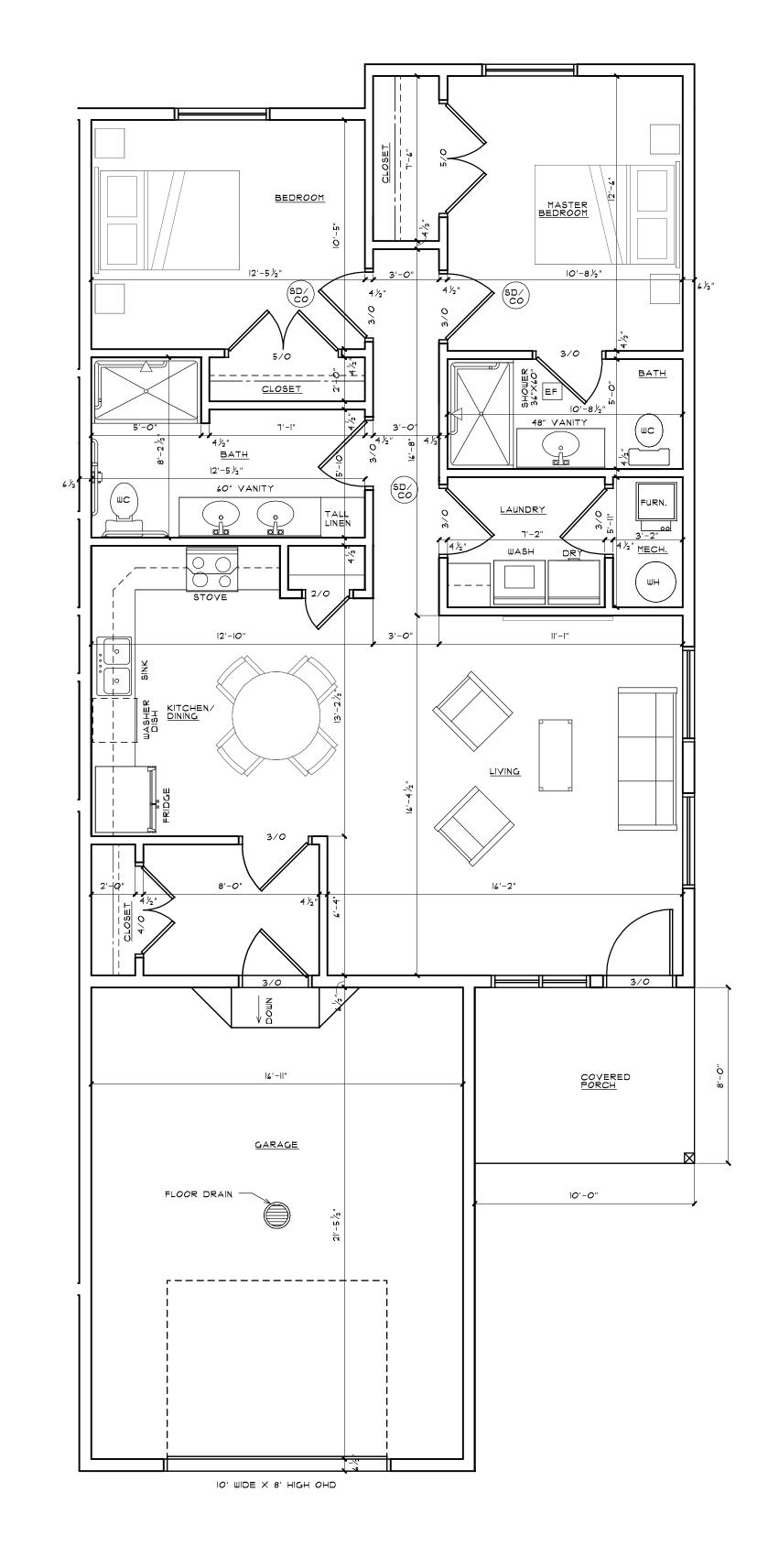


OVERALL FLOOR PLAN - BUILDING I

23-236







MODEL "A" : 14 UNITS TOTAL

SCALE: 1/4" = 1'-0" LIVING AREA: 1,090 SQ. FT. GARAGE: 396 SQ. FT. MODEL "B" : 12 UNITS TOTAL

SCALE: 1/4" = 1'-0"
LIVING AREA: 1,150 SQ. FT.
GARAGE: 394 SQ. FT.

| S E I D E L L | A R C H I T E C T | S | APPROVED BY T.L.S. | ZONING REVIEW | 1/25/25 | APPROVED BY T.L.S. | ZONING REVIEW | 1/25/25 | APPROVED BY T.L.S. | ZONING REVIEW | 1/25/25 | APPROVED BY T.L.S. | APPROVED BY T.L

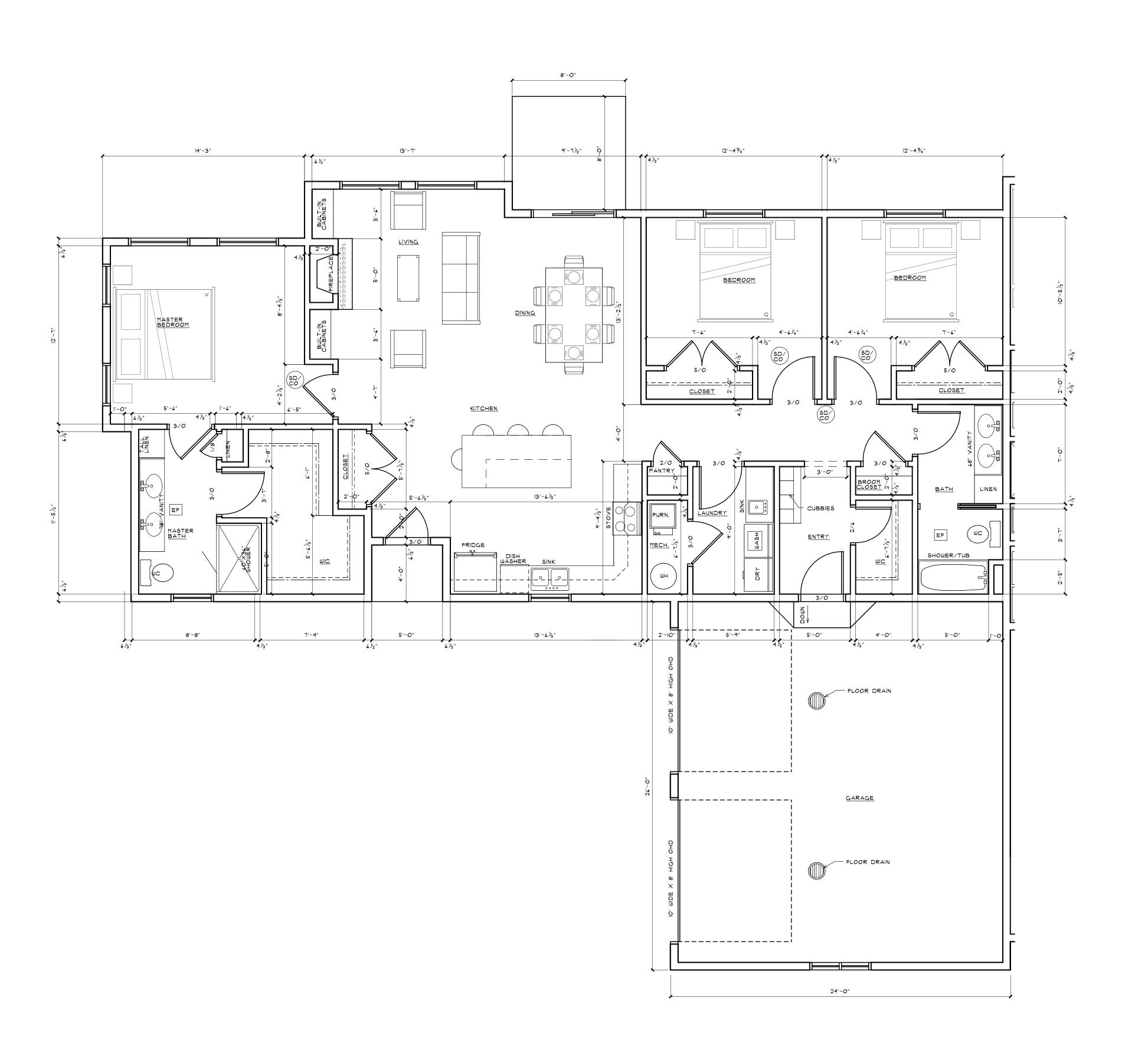
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0ject no. 23–236

SHEET

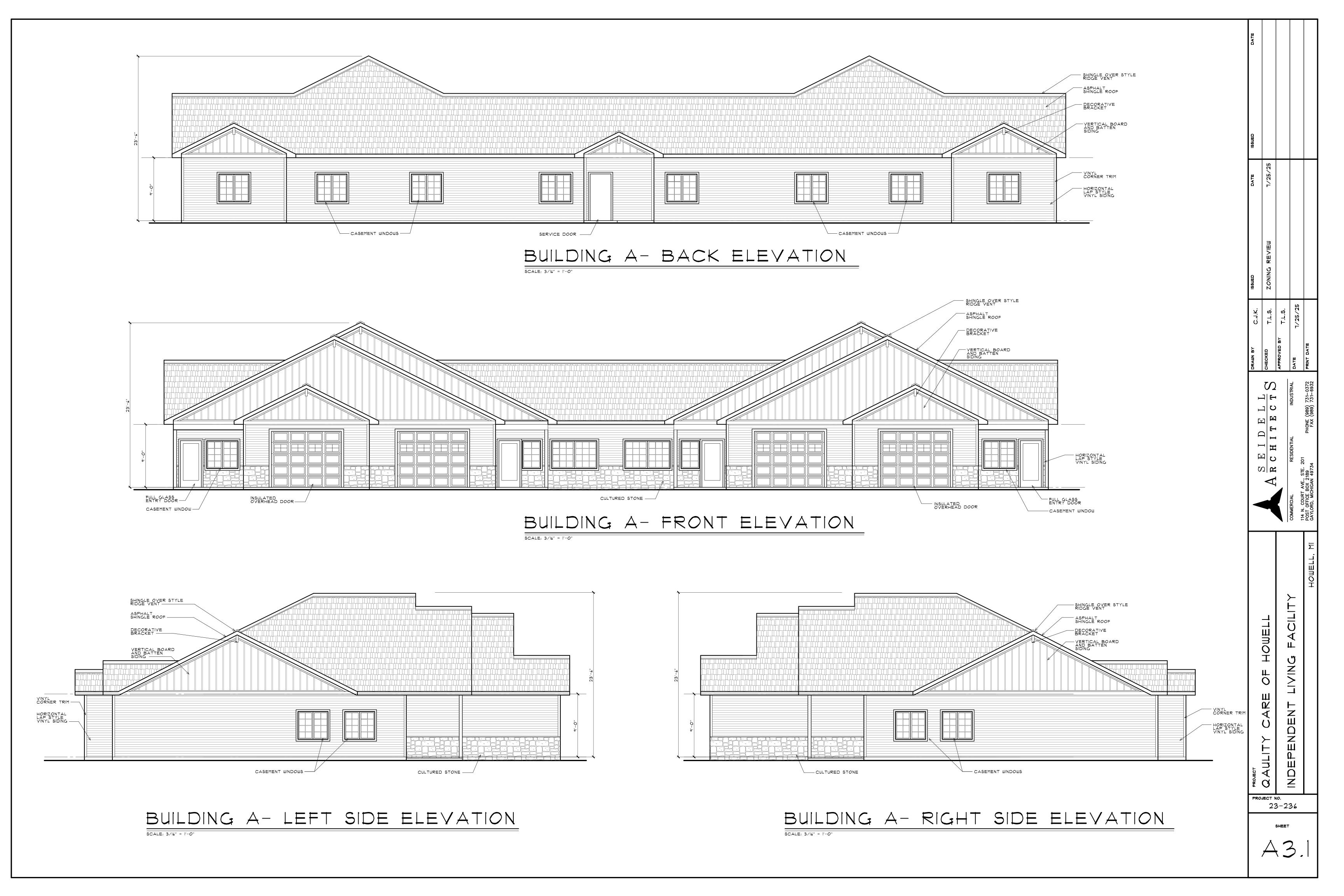
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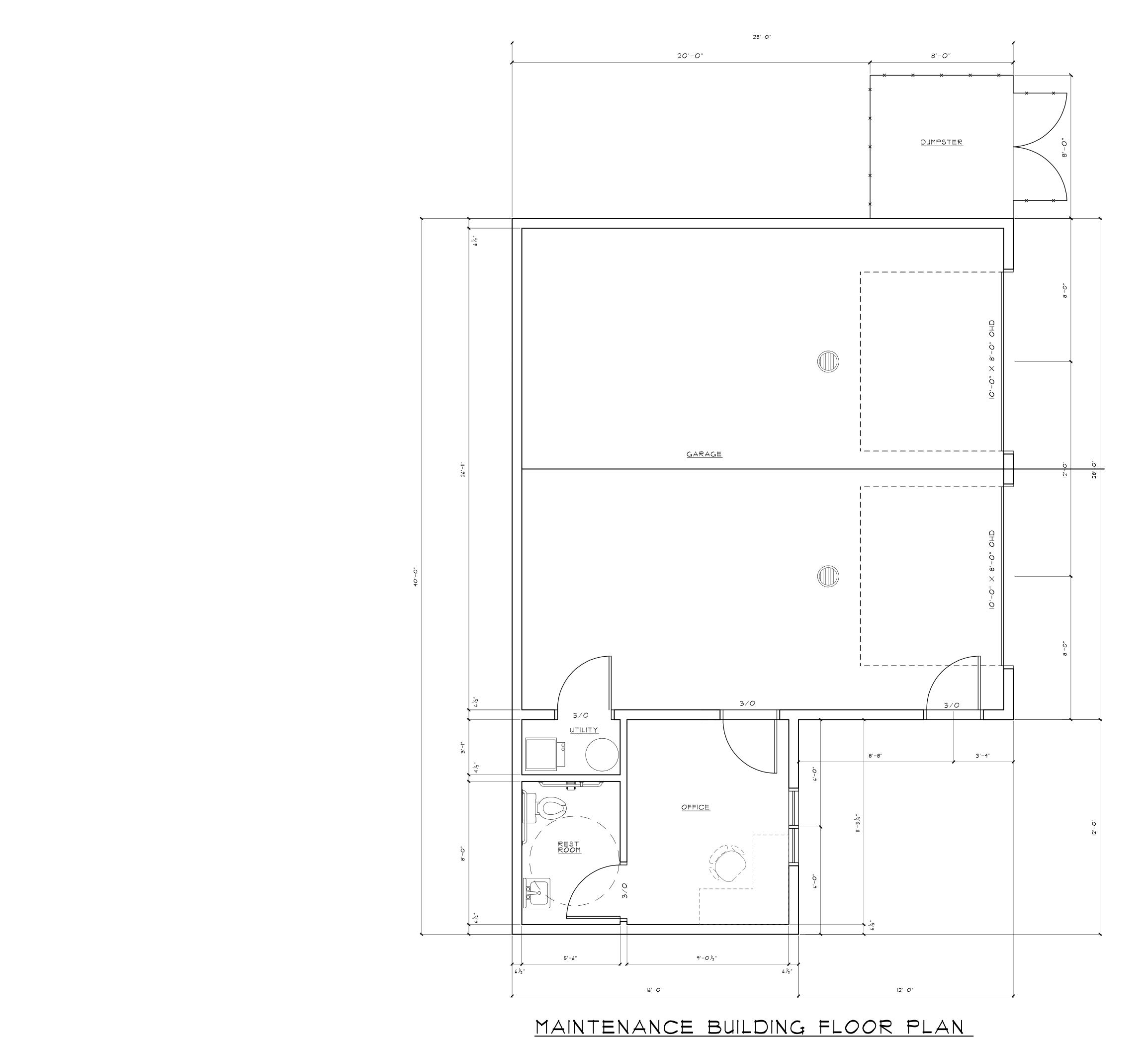
MODEL "C" : 2 UNITS TOTAL

SCALE: 1/4" = 1'-0"
LIVING AREA: 1,625 SQ. FT.
GARAGE: 624 SQ. FT.

23-236





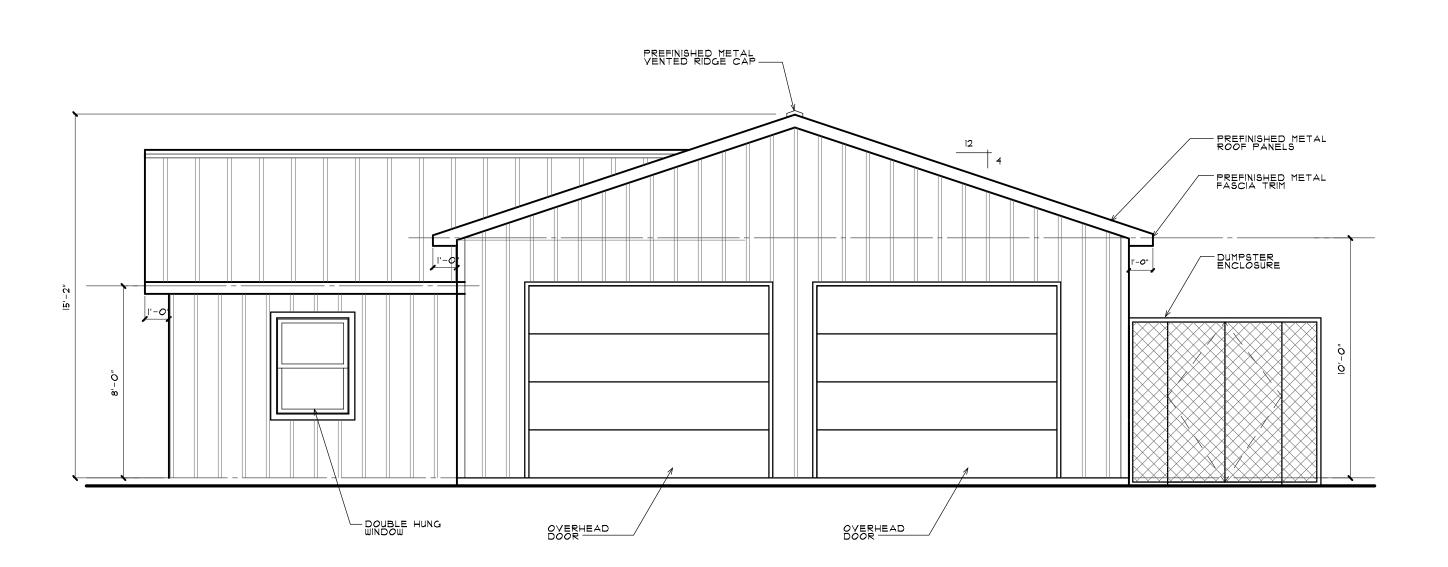


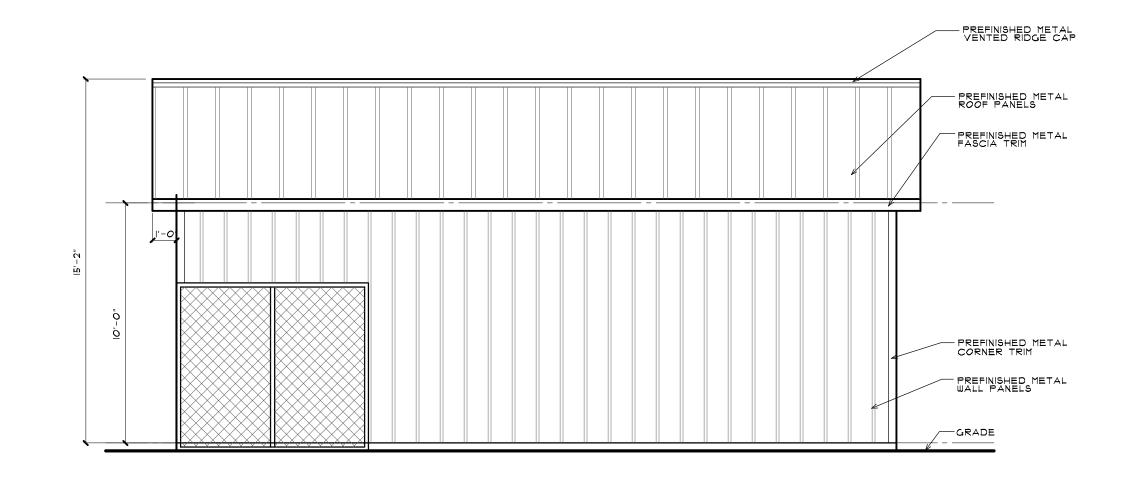
MAINTENANCE BUILDING FLOOR PLAN

SCALE: 3/8" = 1'-0"

INDEPENDENT

PROJECT NO. 23-236



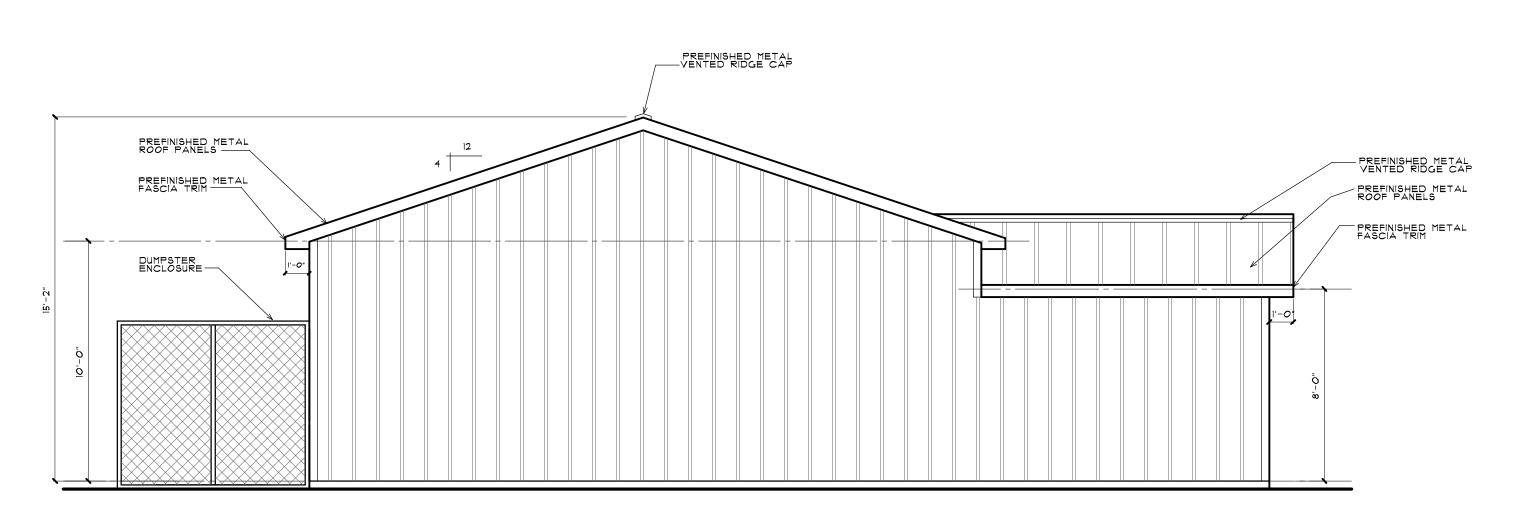


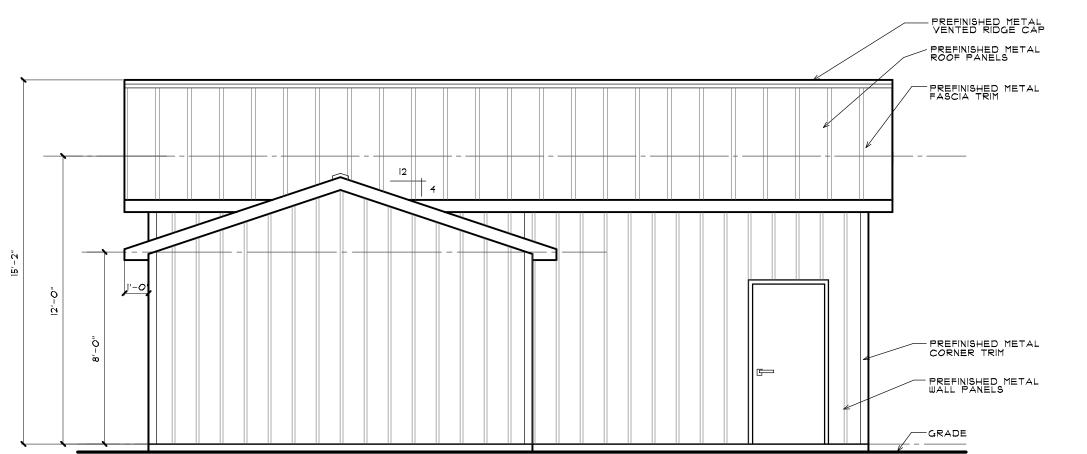
FRONT ELEVATION

SCALE: 1/4" = 1'-0"

RIGHT SIDE ELEVATION

SCALE: 1/4" = 1'-0"





REAR ELEVATION

SCALE: 1/4" = 1'-0"

LEFT SIDE ELEVATION

SCALE: 1/4" = 1'-0"

 L approved by T.L.S.
 ZONING REVIEW
 T/25/25

 APPROVED BY T.L.S.
 T.L.S.

 IDUSTRIAL DATE
 DATE
 T/25/25

 731-0372 PRINT DATE
 PRINT DATE

SEIDELL RCHITECT

1G FACILITY

AAULITY CARE OF HOWELL INDEPENDENT LIVING FACIL

PROJECT NO. 23-236

SHEET

A4.2



117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

Date: August 20, 2025

Site Plan Review For Howell Township, Michigan

Applicant: Ghraib Real Estate Holdings #2, LLC

Project Name: Ghraib Senior Housing Development

Plan Date: July 25, 2025

Location: South of intersection at Warner Rd & Burkhart Rd

(Parcel #4706-21-100-050)

Zoning: Multiple Family Residential (MFR)

Action Requested: Preliminary Site Plan Approval

PROJECT AND SITE DESCRIPTION

The applicant has submitted a Preliminary Site Plan, dated July 25, 2025, for a proposed senior housing development consisting of twenty-six (26) two-bedroom units and two (2) three-bedroom units. The site is located south of the intersection of Warner Road and North Burkhart Road.

According to the applicant, the development will consist of multiple-family dwelling units and is not intended to operate as a State Licensed Facility, Adult Foster Care Group Home, or Adult Day Care Center. Residents will live independently in private units with no shared or common areas, and without any services typically associated with the aforementioned Special Land Uses.

Prior to Final Site Plan approval, the applicant shall submit a clear and detailed project narrative confirming that the proposed use will not involve services or operations similar to those associated with related Special Land Uses.

The approximately 6.1-acre subject site is currently vacant. It is bordered by an existing assisted living facility to the south, single-family residential homes to the north and west, and a vacant parcel to the east. **Figure 1** provides an aerial image of the site.

Warner Rd

Parcel ID #4706-21-100-050

Figure 1. Aerial Image of Subject Site and Vicinity

Source: NearMap April 2025

Items to be Addressed: Applicant shall submit a detailed project narrative confirming that the proposed use will not involve services or operations similar to those associated with related Special Land Uses.

NEIGHBORING ZONING AND LAND USE

Neighboring zoning designations are summarized in Table 1 and Figure 2.

Table 1. Zoning, Land Use and Master Plan Designations

	Zoning	Existing Land Use	Master Plan Designations
Subject Site	Multiple Family Residential	Vacant	Low Density Residential
North	Single Family Residential	Single Family Residence	Low Density Residential
South	Multiple Family Residential	Assisted Living Facility	Low Density Residential
East	Single Family Residential	Vacant	Low Density Residential
West	Single Family Residential	Single Family Residence	Low Density Residential

Figure 2. Surrounding Zoning Designations



Items to be Addressed: None.

AREA, WIDTH, HEIGHT, SETBACKS

Table 2 summarizes the Density, Placement, and Height Regulations for the site plan associated with the use as specified in Section 7.06, Section 7.07, and Section 15.10.

Table 2. Density, Placement, and Height Regulations

Standard	Required	Provided	Complies
Total Parcel Size	_	6.1 acres (approx. 265,716 sq ft)	Yes
Minimum Lot Size for 1st Unit	Parcel of ½ acre or more 6.1 acres		Yes
Open Space Requirement	10% of gross area or minimum 3 acres 3.2 acres (52.5%)		Yes
Two-Bedroom Unit Lot Area	3,500 sq ft per unit	3,500 sq ft per unit 26 units × 3,500 = 91,000 sq ft	
Three-Bedroom Unit Lot Area	5,000 sq ft per unit $\begin{array}{c} 2 \text{ units} \times 5,000 \\ 10,000 \text{ sq} \end{array}$		Yes
Total Required Lot Area (Units)	101,000 sq ft (91,000 + 10,000)	380,374 sq ft	Yes

Ghraib Senior Housing Development - Preliminary Site Plan Review August 20, 2025

Lot Width	200 ft Approx. 290 ft		Yes
Front Setback	30 ft + 1 ft per ft of height over 30 ft = 30 feet	Approx. 30 ft	Yes
Side Setback	30 ft + 1 ft per ft of height over 30 ft = 30 ft	30 ft at minimum	Yes
Rear Setback	50 ft + 1 ft per ft of height over 50 ft	> 100 feet	Yes
Lot Coverage	Max 40%	28%	Yes
Building Height	Max 5 stories / 60 ft	1 story Approx. 24 ft	Yes
Building Separation	Min. 10 ft between buildings 10 ft		Yes
Open Space	10% of the total gross area or 3 acres	3.2 acres preserved	Yes

Section 7.07.B. requires multifamily developments to have open spaces comprising at least 10% of the total gross area of the project with the open spaces of at least three (3) acres in size and planned and built as a common facility to be used, operated and maintained by the developer or a nonprofit association representing the property owners and financed by means of a monthly or annual assessment.

Sheet C-5.2 notes that 3.2 acres of existing woodland will remain as open space. The applicant notes that this is a change from the previously delineated open space. Additionally, the plans depict a proposed nature trail through the naturally wooded area which branches off the easternmost drive isle.

Items to be Addressed: None.

PARKING, LOADING

Section 18.02 requires Multiple Family Dwellings to provide two (2) parking spaces per dwelling unit, plus one (1) additional space for each four (4) dwelling units, and one (1) space for each employee working during maximum employment hours.

As submitted, no employees are expected to be on site. Based on the applicant's proposal, the parking calculation below assumes no employees will be present, each driveway is suitable for a single parking space, and each garage is suitable for either one (1) or two (2) cars based on Sheet C-5.

(28 units * 2 spaces = 56 spaces) + (28 units / 4 units = 7 spaces) = **63 total required parking spaces** Ghraib Senior Housing Development - Preliminary Site Plan Review August 20, 2025

(26 one-car garages = 26 spaces) + (3 two-car garages = 6 spaces) + (32 driveway spaces) = 64 total proposed parking spaces

Items to be Addressed: None.

FLOOR PLAN & BUILDING ELEVATIONS

The applicant has provided floor plans on Sheets A1.1 - A4.2.

The development proposes a total of seven (7) residential buildings, comprising twenty-six (26) two-bedroom units and two (2) three-bedroom units. Each unit includes an attached garage, with configurations ranging from one-car to two-car garages depending on the unit type.

Items to be Addressed: None.

SITE ACCESS AND CIRCULATION

Proposed access to the facility will be from a shared two-way drive off N Burkhard Road.

The applicant has stated that the radii of the curves in the proposed road are fifty (50') feet, which exceed the required turning radii for fire trucks as required in parking lots.

We defer to Engineering and the Fire Chief for further consideration.

Items to be Addressed: None.

NATURAL FEATURES

The currently vacant site is open space and tilled farmland with a significant number of trees (shown in **Figure 3**) along the eastern parcel boundary and lightly dispersed along the western and northern property lines.

The site plan depicts 3.2 acres of woodlands to remain, which appears to comply with the Township's open space requirements.

EGLE's Wetlands Map Viewer shows an area which includes wetlands near the eastern property line of the site. This is an identified wetland on the National Wetlands Inventory (NWI) or Michigan Resource Inventory System (MIRIS) maps. No impacts are proposed to this wetland.

Figure 3. Natural Features



Nearmap: June 2024

Items to be Addressed: None.

LANDSCAPING

The applicant has provided a landscape plan on Sheet C-8 which notes that there will be several phases of the project. These phases are not described. Landscaping requirements are noted in **Table 3** are representative of the entire site.

The following table indicates the estimated landscaping requirements of the Zoning Ordinance.

Table 3. Landscaping Requirements

Landscaped Area	Requirement	Factor	Required	Provided
	1 deciduous shade or evergreen tree per 40 lineal feet	(290.88 / 40 = 7.27)	8 trees	8 trees
N Burkhart Road	1 ornamental tree per 100 lineal feet	(290.88 / 100 = 2.9)	3 trees	3 trees
	8 shrubs per 40 ft.	((290.88 / 40) * 8 = 58.18)	59 shrubs	59 shrubs
Rear Yards Along N Burkhart Road	1 deciduous shade or evergreen per 40 ft.	(Approx. 85 / 40 =2.13)	3 trees	3 trees

Ghraib Senior Housing Development - Preliminary Site Plan Review August 20, 2025

	1 ornamental tree per 100 ft.	(Approx. 85 / 100 = .85)	1 tree	1 tree
	8 shrubs per 40 ft.	((Approx. 85 / 40) * 8 =17)	17 shrubs	45 shrubs
Multiple Family Residential	2 deciduous or evergreen trees per dwelling unit	(28 * 2 = 56)	56 trees	71 trees
Requirements	4 shrubs per dwelling unit	(28 * 4 = 112)	112 shrubs	128 shrubs
Berm Where Parcel Abuts Single Family Residential		Existing berm to be relocated		

The submitted landscape plan incorporates a combination of existing vegetation and proposed plantings.

Items to be Addressed: Applicant to provide detailed cost estimates for landscaping materials.

LIGHTING

A sufficient lighting plan has been provided. A photometric plan indicates that the light levels at property lines are acceptable. Planned lighting includes pole mounted fixed lights which will be located along the sites main drive.

Items to be Addressed: None.

SIGNS

The site plan does not indicate any signage proposed on the site.

If added, signs will require a separate permit from the Zoning Administrator. A sign application must be filed with the Zoning Administrator, at which time the zoning administrator will determine if the signs meet the requirements of the ordinance.

Items to be Addressed: None.

TRASH ENCLOSURE

No dedicated trash enclosure is proposed for the residences at this site. Waste removal is expected to occur via individual residential bins, with collection taking place once per week.

Ghraib Senior Housing Development - Preliminary Site Plan Review August 20, 2025

A trash enclosure is proposed on the side of the maintenance barn which is intended for associated waste and not for residential use.

Items to be Addressed: None.

RECOMMENDATIONS

The preliminary site plan generally appears to comply with the requirements. However, the following item(s) should be addressed or made a condition for the final site plan prior to the Planning Commission taking action on the site plan:

- Applicant shall submit a detailed project narrative confirming that the proposed use will
 not involve services or operations similar to those associated with related Special Land
 Uses.
- 2. Applicant to provide detailed cost estimates for landscaping materials.

Please contact us with any questions or concerns.

CARLISLE/WORTMAN ASSOC., INC.

Paul Montagno, AICP

Principal

CARLISLE/WORTMAN ASSOC., INC.

Grayson Moore Community Planner

#PC-2025-08

cc: Joanathan Hohenstein, Township Zoning Administrator Carol Makushik, Township Deputy Zoning Administrator

Adam Jacqmain, Township Engineer

HOWELL TOWNSHIP Application for Site Plan Review

3525 Byron Road Howell, MI 48855 Phone: 517-546-2817 ext. 108 Email: inspector@howelltownshipmi.org

August 2025

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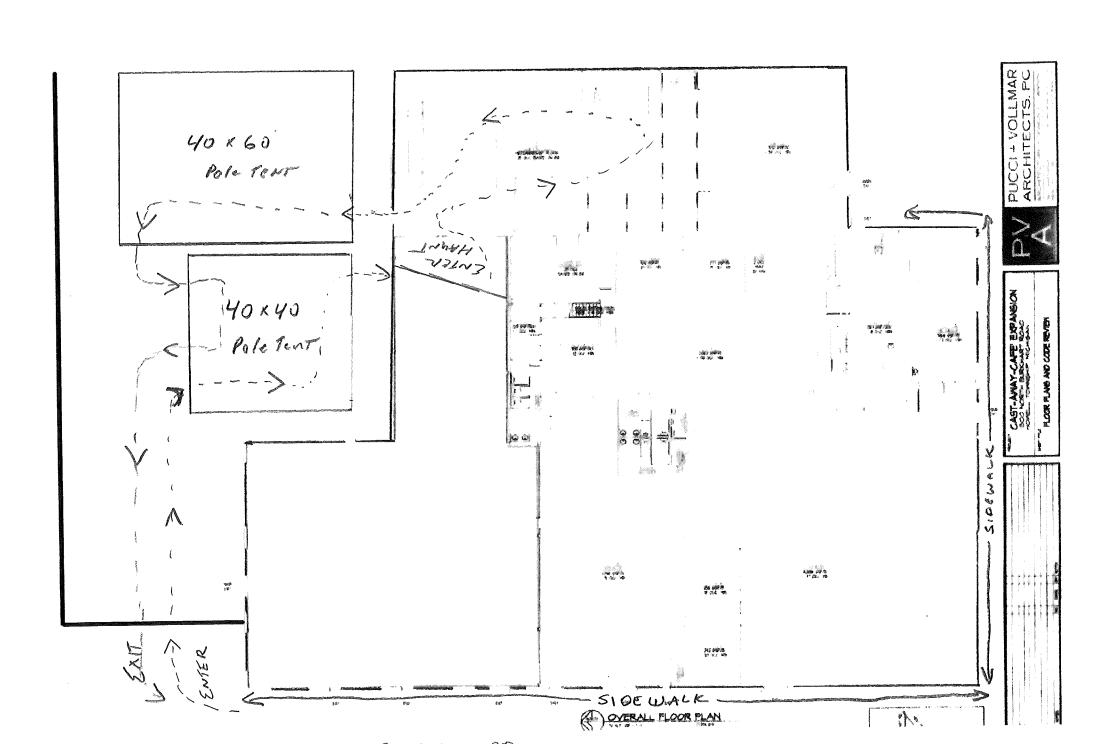
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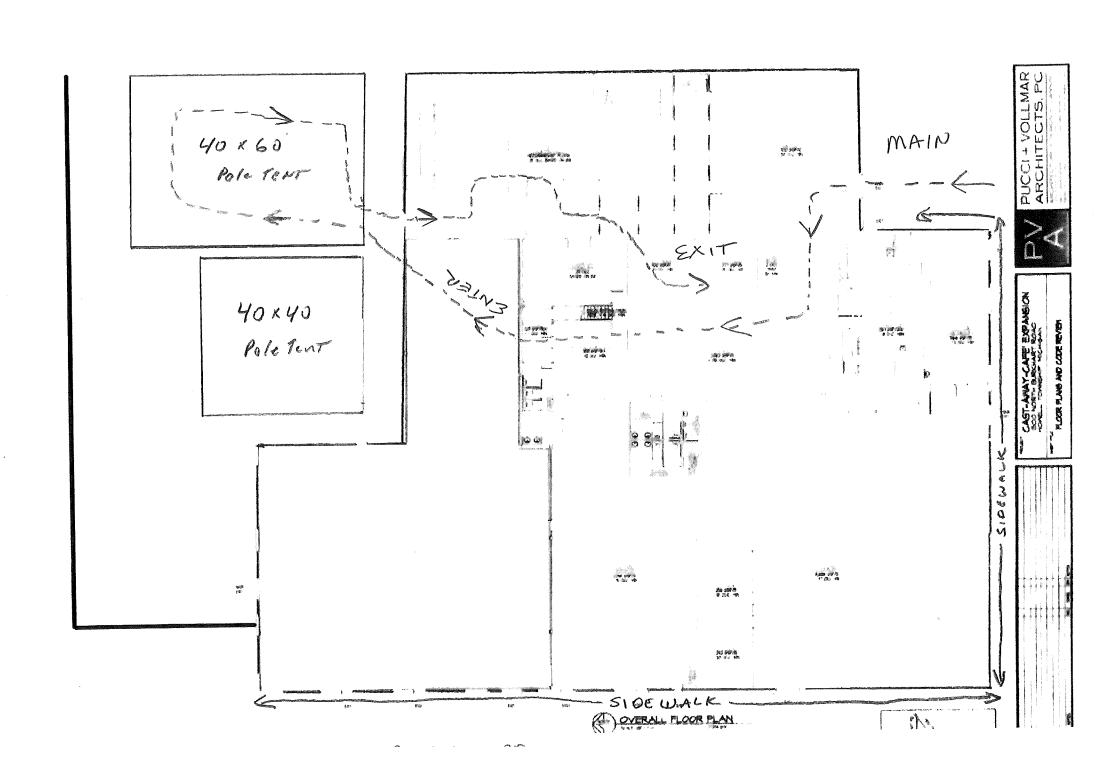
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117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

Date: August 20, 2025

For Howell Township, Michigan

GENERAL INFORMATION

Applicant: Castaway Play Café

Guided Mission Investments

Dwayne Combs

Application Date: August 2, 2025

Location: 1800 N Burkhart Road

#4706-28-100-012

Zoning: IFZ – Industrial Flex Zone

Action Requested: Temporary Use Site Plan Approval

PROJECT AND SITE DESCRIPTION

The applicant is seeking a temporary use permit to allow for a temporary use per Section 14.25 of the Zoning Ordinance. The applicant is proposing a haunted house and a Christmas event within the existing building located at 1800 N Burkhart. The proposal utilizes the northern portion of the principal structure, along with a pole tent to serve as an extension of the activity, and a smaller pole tent designated for administrative use during the temporary use. The site is located at the corner of North Burkhart and Hydraulic Drive, north of the railroad.

The proposed pole tent structure acting as the extension of the facility is forty (40) by sixty (60) feet and is located in the northeast corner of the site. The pole tent structure used for an administrative area is twenty (20) feet by forty (40) feet in size and is to be located at the northwest corner of the property.



Figure 1. Aerial Image of Subject Site and Vicinity

The proposed dates for the temporary use are from September 26, 2025, through January 5, 2026. The haunted house is proposed from September 26, 2025, through November 1, 2025. The Christmas event is proposed to begin on December 4, 2025, and last through December 23, 2025.

Items to be Addressed: None.

FIRE SAFETY REVIEW

We defer to the Fire Marshal for consideration of fire safety measures.

Items to be Addressed: Consider Fire Marshal's comments.

PARKING AND CIRCULATION

The proposed temporary use and structures located at the northern end of the parcel do not appear to negatively affect vehicular circulation or parking due to the parking lot being located in the southern portion of the parcel. There is a sidewalk along the frontage of the building that connects the parking lot at the south end of the building to the proposed entrance. We recommend a barrier be placed north of the northern entrance to direct traffic to the parking lot.

Items to be Addressed: Place a barrier at the northern entrance to direct traffic to the parking lot.

SIGNS

While the applicant has not given any indication of signage in their application, they should bear in mind that all signage must comply with Article 19, Sign Regulations, of the Zoning Ordinance. If any temporary signs are proposed, a separate sign permit must be obtained from the Township.

We recommend the applicant utilize signage to clearly direct pedestrian traffic and provide clear safety routes using Michigan Occupational Safety and Health Administration (MIOSHA) standards.

Items to be Addressed: 1) Planning Commission to determine if additional exterior safety signs are required. 2) If any other signs are proposed for, a separate sign permit must be obtained from the Township.

TEMPORARY USE

The applicant is seeking a temporary use permit as outlined in Section 14.25 of the Ordinance. Temporary uses are permitted in any district, provided that the Planning Commission determines the following to be true:

 The location of such uses and their related activities will not adversely affect public health, safety, morals, and general welfare in the district in which it is to be temporarily located.

The proposed use should not impact public health.

All temporary uses shall have a reasonable time limit placed upon their use based upon the
normal periods of time such uses need to exist for their expressed purpose. The time limit
shall be expressed in calendar dates for the number of days authorized by the Planning
Commission.

Castaway Play Café – Temporary SPR August 20, 2025

The applicant has proposed operating this use from September 26, 2025, through January 5, 2026. The haunted house would be open Fridays through Sundays in October, from 7:30 p.m. to 12:00 a.m. The Christmas event would have varying hours, but would not begin before 12:00 p.m. and would conclude no later than 8:00 p.m.

If the Planning Commission believes these times are reasonable, they should place a condition upon the application that if the temporary use permit is approved, such approval expires on January 5, 2026.

• Temporary uses may be granted on the basis of compliance with the criteria stated in Section 20.08 (Criteria for Site Plan Review).

The applicant has provided a sketch plan using sheets from what appears to be the original plan for the development. The Planning Commission should evaluate the plan to determine if there is enough information provided to make a determination on the proposed temporary use.

Items to Be Addressed: Planning Commission should review the above criteria and determine if there will be adverse impacts with this facility.

RECOMMENDATIONS

The following items should be addressed by the applicant:

- 1. Comply with conditions imposed by the Fire Marshal.
- 2. Place a barrier at the northern entrance to direct traffic to the parking lot.
- 3. Provide exterior safety signage that complies with the Michigan Occupational Safety and Health Administration (MIOSHA) standards
- 4. Apply for a temporary sign permit if any exterior signage is proposed.
- 5. Comply with conditions imposed by Planning Commission.

We look forward to discussing this with you at the next Planning Commission meeting.

CARLISLE/WORTMAN ASSOC., INC.

Paul Montagno, AICP

Principal

CARLISLE/WORTMAN ASSOC., INC.

Grayson Moore Community Planner August 4, 2025

Jonathan Hohenstein, Zoning Administrator

Howell Township

3525 Byron Road

Howell, MI 48855

Re: Wrangler's Saloon – Approval Extension Request

Jonathan and Township Plan Commission

We formally request a 1-year extension to our project approvals for the proposed Wrangler's Saloon at 4020 West Grand River, Howell, MI in concurrence with Township Zoning Ordinance Section 27.07 (F). It is still our intent to begin construction on the project in the fall of this year, 2025. A number of circumstances have delayed the project from the first pre-application meeting with the Township in the spring of 2022. The primary items are as follows:

1. Private Stormwater Easements: Although the project site, portions of West Grand River Ave., and several other properties on the north side of Grand River Avenue drain through an existing culvert under the road, and this was not proposed to change, the Livingston County Road Commission (LCRC) required stormwater easements from 'downstream' property owners. The existing culvert drains under the road into an existing ditch that is located on a portion of the Tonon property (4141 W. Grand River) and then through the Livingston Commerce Center Business Park storm sewer system, into a large detention basin at the west end of the development. These easements, essentially documenting/formalizing existing conditions, were not able to be fully executed until July 27, 2024, more than 1-1/2 years after the requirement was made by LCRC. Available stormwater capacity first needed to be confirmed by the Livingston County Drain Commissioner's office, followed by lengthy negotiations with the property

owners.

- 2. FAA Clearance: The site, proposed building, and proposed trees will be well below the Livingston County Airport 'Glide-Path' criteria. However, it was ultimately determined that due to its proximity to airport property a 'Tall Structure Permit' needed to be obtained. This application ended up including calculations for the presumed mature height of every proposed tree, each planned parking lot light pole height, as well as the structure. This was not fully approved until March 6, 2025 (with no ultimate changes needed to the building, proposed trees or lights).
- 3. REU Reduction Request: Although an initial draft study was completed in 2022, we had to revise the seating capacity with different designs and additional comparisons needed. to support our reduction request. We added several of our other restaurants as we obtained them, taking time. Our reduction request was approved July 15 th, 2025.
- 4. EGLE ACT399 Watermain Permit / Possible Contamination Site Issue: Following Township Engineer approvals this winter, the extension of watermain into the site for building fire suppression, including a new fire hydrant, needed to be submitted to MHOG for their approval and ultimately to EGLE under their ACT399 permitting process. During this process the site was flagged on EGLE's on-line RIDE Mapper as a possible 'contaminated' site. A Baseline Environmental Assessment (BEA) report from September, 2020 was referenced as the cause for this designation. This report was actually a due-diligence type report that needed to be submitted within 90-days of our purchase of property so that we would not be liable for any contamination if found in the future. Although the site had a history, circa 1904, as an automobile gasoline dispensary with a possible abandoned buried tank, none were found. The only

'contaminant' was an elevated arsenic level in one sample at the far northwest corner of the site — with no impacts to the watermain extension and no ultimate 'contamination' designation. Unfortunately, this took months to resolve — until July 29 th , 2025.

With these issues the anticipated demolition of the existing building on-site and the start of construction of the new restaurant had to be pushed back multiple times. However, as illustrated in the descriptions we have been continuing to move the process along and at no time dropped work on the project. As much as possible, we anticipate beginning work as early

as September this year but want to avoid any possible gap between the expiration of approvals

We respectfully request a 1-year extension to next year, September 5, 2026.

We have previously submitted the private stormwater easements with their associated dates but have also included copies with this submission. We are also including the FAA approval and sampling of email correspondence along with similar correspondence regarding the ACT399/MHOG process. Please contact us if you need additional information.

Respectfully,

and the start of actual construction.

WD REALTY

Holly Fletcher

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SOAPY BUCKET CARWASH



Howell, MI 48843

August 18, 2025

Howell Township Planning Commission 3525 Byron Road Howell, MI 48855

RE: Request for Extension of Site Plan Approval

Parcel Number: 4706-25-200-048 Project: Soapy Bucket Carwash

Dear Members of the Planning Commission,

I respectfully and formally request a one-year extension of the project approvals for the proposed Soapy Bucket Carwash. This request is being made in concurrence with Township Zoning Ordinance Section 27.07 (f), which allows extensions under circumstances such as those we are experiencing.

It remains my full intent to begin construction of the project this fall/winter. However, a number of circumstances beyond my immediate control have caused delays in advancing the project to the construction stage:

- Stormwater Basin/ZBA Process

As noted in Township correspondence, the approved stormwater basin location required a subsequent review through the Zoning Board of Appeals. This additional step extended the approval process beyond the originally anticipated schedule.

- Project Cost Opinion / Bonding Re-Bids

In working with Spicer Group on the project's cost opinion and bonding requirements, we were required to re-bid several major components to substantiate the "actual bid costs" requested. This process, coinciding with the busy summer construction season, has taken longer than expected and delayed finalizing financial commitments.

Financing Pre-Approval Requirements
 Prior to breaking ground, I wish to have all project financing fully pre-approved. To

responsibly secure this financing, I must provide final accepted bid pricing, which can only follow the completion of the re-bid process noted above.

I want to reaffirm my commitment to bringing this project to completion and contributing to Howell Township's continued economic development. The Soapy Bucket Carwash will not only serve the community but also enhance the tax base and provide local employment opportunities.

For these reasons, I respectfully request the Planning Commission grant a 12-month extension of the existing project approvals to allow us the necessary time to complete these steps and commence construction as intended.

Thank you for your consideration and continued cooperation. I appreciate the Township's guidance and support as we move forward.

Sincerely,

Russell Spring orn

Owner/Developer

Soapy Bucket Carwash