

PLANNING COMMISSION

TUESDAY, MAY 14, 2019 Sycamore Room - 1st Floor - 6:30 P.M. 201 West Ash Street, Mason MI

AGENDA

- 1. CALL TO ORDER
- 2. ROLL CALL
- 3. PUBLIC COMMENT
- 4. APPROVAL OF MINUTES
 - A. Approve Minutes of Regular Planning Commission Meeting April 9, 2019
 - B. Approve Minutes of Planning Commission Training Workshop April 9, 2019
- 5. UNFINISHED BUSINESS
- 6. NEW BUSINESS
 - A. Resolution 2019-04: City Limits, has requested final site plan approval to construct a 4,828 square foot addition to expand an indoor recreation use, and to expand parking at property located at 801 N. Cedar St.
 - B. Resolution 2019-05: David Meredith, has requested final site plan approval for a change of use to allow an indoor arcade and escape room on the first floor of property located at 118 W. Oak St.
 - C. Resolution 2019-06: Tavis Cherry, Timeless Treasures, has requested final site plan approval for change of use of an existing 8,100 square foot building to an antique mall with a new parking reserve area.
 - D. Kipp Rd Corridor Future Land Use Discussion
 - E. Sign Ordinance Update

7. LIAISON REPORT

A. Development Update: City Manager's Report (May 3, 2019)

8. ADJOURN

CITY OF MASON PLANNING COMMISSION MEETING MINUTES OF APRIL 9, 2019 DRAFT

Waxman called the meeting to order at 6:30 p.m. in the Sycamore Room 1st floor at 201 West Ash Street, Mason MI.

Present: Barna, Droscha, Howe, Perrault, Shattuck, Waxman

Absent: Sabbadin (gave notice)

Also present: Elizabeth A. Hude, AICP, Community Development Director

PUBLIC COMMENT

Leon Clark, 416 W. Oak St., invited members to a reception Thursday, April 25th following the school committee meeting to meet with visitors from Kosovo, Mason's Sister City.

APPROVAL OF MINUTES

MOTION by Droscha second by Howe, to approve the Planning Commission meeting minutes from March 12, 2019.

Yes (6) Barna, Droscha, Howe, Perrault, Shattuck, Waxman

No (0)

Absent (1) Sabbadin

PUBLIC HEARING

None.

UNFINISHED BUSINESS

None.

NEW BUSINESS

None.

LIAISON REPORT

A. Development Update: the City Manager's Report dated 3/29/2019 was provided to members in their meeting packets.

Councilmember Droscha provided the following updates from City Council

- The Capital Improvements Program was approved by council.
- The rezoning of 118 W. Oak was approved by council.
- The Special Assessment Policy was approved.
- There is support for the City of Mason hiding Facebook comments.

ADJOURN

The meeting adjourned at approximately 6:39 p.m.

Anne Klein Barna, Secretary	
Planning Commission Minutes	April 9, 2019

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CITY OF MASON PLANNING COMMISSION TRAINING WORKSHOP MINUTES OF APRIL 9, 2019 DRAFT

Waxman called the meeting to order at approximately 6:50 p.m. in the Sycamore Room 1st floor at 201 West Ash Street, Mason MI.

Present: Barna, Droscha, Howe, Perrault, Shattuck, Waxman

Absent: Sabbadin (gave notice)

Also present: Elizabeth A. Hude, AICP, Community Development Director

PUBLIC COMMENT

None.

PRESENTATION

 Tour and overview of Community Development Office
 Members toured the Community Development Office and were provided an overview on department staff and roles.

TRAINING

a. Contents of binder

There was an overview of the components of the Planning Commissioner binders.

- b. Communication Social Media and the Grocery Store
 - There was a discussion that highlighted elements of the Open Meeting Act and Ex Parte conversations.
- c. Checklist for site plan review
 - There was an overview of aspects of the site plan review that are critical when completing a site plan review.
- d. Roster and Nameplates
 - Commissioners verified the spelling of their names for nameplates that are accepted to be ordered in the near future.

ADJOURN

The meeting adjourned at approximately 7:30 p.m.



ACTIVE PROJECTS STATUS LIPDATES (PROJECTS NOT COORDINATED BY THE CITY)

Project Name	Status
318 W. Kipp - Klavon's 228 W. Kipp - Klavon's	A Temporary Certificate of Occupancy has been issued. They are open for business! Staff anticipates a Special Use/Site Plan Application for the development of the overflow parking lot in the near future.
322 S. Jefferson Commercial Bank – Downtown Mason	Two building permits are active for interior and exterior renovations to restore two entrance doors on Jefferson St.; replace door and add concrete pad at alley entrance. A third building permit is being issued for renovation of the upstairs offices.
402 S. Jefferson (former Baja Grill)	Grant Agreement has been signed. The building permit is under review.
201 W. Ash City Hall	Anticipate installation of T-Mobile equipment to begin this spring
154 W. Maple (former shoe store)	Building permit has been issued. A Right of Way Permit is under review which will include a temporary easement to use the vacant lot at the alley/Jefferson Street for staging of equipment for the project. A Letter of Intent is being issued for support of the project at a lower amount than requested. Developer is evaluating the feasibility of the project.
600 Buhl St. Ingham Animal Shelter	Building permit active for new construction.
652 Hull Rd New Goodwill	Staff anticipates a building permit application once supplemental permits from the State and County have been obtained.
400 S. Cedar St Harvey Education Center / Mason Public Schools	State building permit active for construction of new addition as part of the Phase 1 Bond Project. More information available at: http://bondprojects.masonk12.net/ .
801 N. Cedar St. (City Limits)	City Limits, has requested final site plan approval to construct a 4,828 square foot addition along with additional parking. The project is expected to be reviewed by the Planning Commission at their regular meeting on May 14.
Ash/Cedar (M-36) - MDOT	MDOT has started the signal upgrade project at the intersection of Ash and Cedar (M-36) next week. The Contractor completed installation of the signal foundations. The signals themselves and the sidewalk work will take place at a later time TBD. This 2nd phase of work will take approximately 1-2 weeks and will have the following traffic impacts: Periodic daily lane closures on M-36 for the Contractor to perform the work. The intersection will not be closed at any time and traffic will be maintained through the intersection.
Howell/Okemos Rd intersection – Ingham County Road Department	ICRD is installing a four-way stop with flashers at this intersection.
SUBDIVISIONS	Subdivisions require three stages of approval before site plan approval and building permits can be issued: (1) Tentative Preliminary Plat, (2) Final Preliminary Plat, (3) Final Plat.
Enclave at Rayner Ponds Subdivision (19 lots, 1 park)	The City has approved a Tentative Preliminary Plat (Stage 1) and is waiting to receive an application for Final Preliminary Plat (Stage 2).
Rayner Ponds — Phase 4 Subdivision (16 lots)	The City approved a Tentative Preliminary Plat in January of 2018 (Stage 1). Staff received an application for Final Preliminary Plat (Stage 2) in December of 2018. A public hearing was held by the Planning Commission on January 15 resulting in a recommendation for approval to City Council. City Council approved the Final Preliminary Plat on January 21, 2019. The applicant will submit a Final Plat for approval (Stage 3) next.

OPERATIONS AND COMMUNITY RELATIONS

- The Code Enforcement Officer position has been moved to Community Development from the Police Department.
- On April 11th Crp. Mentink and Off. Bradley attended a 1-day formal training in police report construction and

- communication to gain additional skills and in current and best practices.
- On April 16th Off. Michele, Cert. Taser Instructor, attended a 1-day course in Michigan Taser Laws and current Policy to enhance his credential as a Taser and use-of –force instructor.
- On April 18th Off. Flores attended a 2-hour seminar to assist in recognizing and working with those with Autism who may have police contacts.
- The Police and Fire Departments responded to a fire at 622 Hall Boulevard on May 3, 2019. The City received mutual aid from Delhi Township Fire Department, Dansville Fire & Rescue, Leslie Fire Department, and Meridian Township Fire Department's RIT Team. There were no injuries, but the house is a total loss.

Staffing Updates:

- New Hires/Promotions: David Latter started as a Seasonal-Temporary Laborer May 1, 2019.
- Departures:
 - Charles Goeke, Code Enforcement Officer Last Day 4/12/2019
 - Daniel Kennedy, Volunteer Fire Fighter Last Day 4/18/2019
 - Bryan Keeler, Police Officer Last Day 4/29/2019
- Open Positions: Seasonal-Temporary Laborer All offers have been made pre-employment screening is being conducted.
 Full-Time Laborer position closed April 17 and applications are under review. Part-Time Custodian position closed May 1 and applications are under review.

LARGE CITY PROJECTS

FY 2018-2019			
Project	Project Name/Description	Status	Completed
STREETS, SIDE	WALKS, BRIDGES (S)		
2017-S6	South St - Northbrook to City Limits	Complete	Sep
2017-S7	Avon Street - All	Complete	Sep
2017-S8	Northbrook - South to Carom Circle	Complete	Sep
2017-S9	S. Jefferson - Oak Street to Kipp Road	Cannot begin construction before June 9 per contract. Pre-Con meeting scheduled for May 8.	
2017-S10	Sidewalk Program – Downtown and Summerwood	Work downtown nearing completion; Summerwood will begin after downtown.	
2018-S1	MDOT- Temple Street Safety Grant	MDOT Grade Inspection completed. Awaiting MDOT comments and authorization to bid.	
2018-S32	Columbia - Cedar to US 127	Complete	Sep
UTILITIES: SAN	NITARY SEWER, STORM WATER, AND W	ATER DISTRIBUTION (U)	
2018-U1	Utilities for Properties on Kipp Road	Complete	Sep
2017-U3.2	Waste Water Treatment Plant Upgrades	Complete	Oct
2017-U3.3	Design of the New DPW Facility	Delayed until future FY (2019-2020)	N/A
2017-U6	Abandon Wells by Airport	Delayed until future FY (2021-2022)	N/A
2017-U9	Northbrook - South to Carom Circle	Complete	Sep
2017-U10	S. Jefferson - Oak St to Kipp Road	See 2017-S9 above	
2017-U12	300,000 G Storage Tank Top Sealing	Removed, included with WWTP Upgrade Project	N/A
2017-U13	Well No. 7 Rebuild	Well work is complete. Motor drive is on order.	
2017-U15	Replace Two Fire Hydrants Behind Mason Plaza	Delayed until future FY (2019-2020)	N/A
2017-U16	Cathodic Protection for Ground Storage Tank	Delayed until future FY (2020-2021)	N/A
2017-U17	High Service Pump No. 1 Rebuild	Complete	Mar
2017-U18	Replace Chlorine Analyzer	Complete	Aug
2018-U35	BS&A Work Order Application	Award of project anticipated in May	
2018-U36	Sewer Push Camera Replacement	Complete	Nov
2018-U37	Log Jam Removal Sycamore Creek	Complete	Nov
PARKS/ CEME	TERY/ FORESTRY/ NONMOTORIZED (P)		
2017-P8	Laylin Park Improvements	Staff is evaluating final work priorities for the spring.	

2018-P1	Howell Road - Hayhoe Riverwalk (Dart Trailhead)	Complete	Nov
2018-P2	Howell Road - Hayhoe Riverwalk Trail Extension	Complete	Nov
2018-P3	Planning: 5 yr Parks/Recreation Plan; Bond Park Improvements	City Council approved contract award to LAP on May 6. Staff is executing contract and anticipates project kick-off this month.	
2018-P5	City Tree Evaluation	Notice to Proceed & Contract signed; Pre-Evaluation Meeting held on April 30.	
MOTOR VEHIC	LE POOL (MVP)		
2017-MVP6	1/2 Ton 2x4 Pickup Truck	Complete	Sep
2017-MVP7	Mower	Complete	Jul
2017-MVP8	Police Cars	Complete	Jan
2017-MVP9	Large Items (Leaf Vacuum)	Complete	Nov
2017-MVP10	5-yard Dump/Plow Truck	Complete (Build Out with Equipment Next Year)	May
2017-MVP18	Command Vehicle	Complete	Oct
2017-MVP30	Front End Material Loader	Complete	Nov
BUILDING, PRO	PERTY, EQUIPMENT (B)		
2017-B1	Library- Facility Evaluation	The concept design is being revised and finalized based upon public feedback. The project will be prepared to move forward to the final design and construction phases once funding has been confirmed.	
2017-B3.1	Police: Portable Radios	Complete	Oct
2017-B4	City Hall Landscaping and Lighting	Phase 1 completed. Phase 2/3 scheduled for the spring as time and budget allows.	
2017-B6	Fire: Fire Engine 809/Tower 808	Truck is on order; completion anticipated 2020	
2018-B4	IT: BS&A Timesheet Program	Not started, connection issues with offsite facilities	
2018-B4	IT: BS&A Cemetery and HR Upgrade	Complete	Nov
2018-B6	IT: AV Room Technology Patch	Requesting Council Approval May 8, 2019	
2018-B7	Planning: Cedar/127 Corridor (Transportation and Land Use)	Moved to 2019-2021 – integrate with master plan	N/A
2018-B24	City Hall Rental Space Furniture	Old rectangle tables have been replaced with plastic	

FY 2019-2020			
Project	Project Name/Description	Status	Completed
	2019 Local Streets	Bonds and Insurances in hand; Pre-Construction Meeting set for May 8, Contract and Notice of	
		Award to be signed at the pre-construction meeting. Anticipate May 15th start of construction.	



City of Mason Planning Commission Staff Report

TO: Planning Commission

FROM: Elizabeth A. Hude, AICP, Community Development Director

SUBJECT: 801 N. Cedar St. – City Limits

DATE: May 9, 2019

Jim Cicorelli, City Limits, is requesting Final Site Plan Approval to construct a 4,828 square foot addition to expand an indoor recreation use, and to expand parking on property located at 801 N. Cedar Street. The proposal is shown on the following plans and documents:

- Zoning Permit Application, received February 14, 2019
- Letter requesting waiver of landscaping requirements dated May 3, 2019
- Plan set dated January 10, 2019, last revised May 3, 2019
- Architectural drawings, received April 19, 2019
- Stormwater Management Report prepared by DC Engineering dated January 2019.
- Boundary Survey dated March 28, 2019
- Recorded easements:
 - o 2-10-66 QCD's to Reproco Inc from Bowling Alley
 - o 3-18-98 Description on Cedar Street (M-36)
 - o 3-18-98 Site Plan
 - o 9-17-98 Agreement between Bowling Alley & Avery Oil

The applicant paid a fee of \$200, and together with the plans and documents listed above, the application appears to satisfy the submittal requirements of Sec. 94-226(c).

CONSTRUCTION SCHEDULE

The project is expected to begin as soon as possible for completion in October 2019.

LAND USE/ZONING/MASTER PLAN

The development is proposed on a parcel zoned C-2 General Commercial District. The applicant seeks to construct a 4,828 sq. ft. addition for the purpose of expanding an Indoor Recreation – Arcade use. While the ordinance does not explicitly state Indoor Recreation or Arcades as a use allowed for in the district, it is the intent of this district to provide retail and service needs which benefit local and regional populations. Further it is a use compatible with the City's zoning ordinance, Sec. 94-142(19) Public assembly buildings, indoor theaters, and auditoriums, and therefore appropriate to the C-2 district. Staff advises that a clearer definition of indoor and outdoor recreational uses be addressed in the future revision of the master plan/zoning ordinance.

The surrounding land uses and zoning are as follows:

	Current Land Use	Zoning	Future Land Use
North	Commercial (Dandy Randy/Taco Bell)	C-2 General Commercial District	Commercial
West	US 127 - Interstate Right of Way - Michigan Department of Transportation (MDOT)		
South	Commercial	C-2 General Commercial District	Commercial
East	Commercial (vacant - old Andrews Chevrolet)	C-2 General Commercial District	Commercial

The use and redevelopment of this property is generally consistent with the Master Plan, p.3-2:

"Cedar Street Business Corridor: The Cedar Business Corridor includes most of the land along Cedar Street from the US-127 interchange to South Street. This corridor presents varying conditions as one travels its length. The Plan establishes differing policies for the northern and southern portions of the corridor.

The northern half of the corridor, generally extending from the highway interchange to North Street, is afforded excellent regional access by the presence of the US-127 interchange. This segment has evolved as a business corridor catering to the convenience needs of the highway traveler and uses that particularly benefit from proximity to the highway because of the regional market on which they rely. The Plan supports the continued role of this portion of Cedar as a highway business corridor. The Plan supports the redevelopment of properties in this area to enhance their impact on the City's overall character.

Future commercial development and redevelopment should be characterized by predominantly highway-oriented uses and uses that are particularly dependent on regional access. However, this corridor segment should undergo improvements to heighten public safety and visual amenities. These improvements should include streetscape improvements that address, in part, landscaping and lighting, signage, limitations on the frequency and number of driveways, and the use of shared service drives. This portion of Cedar Street serves as one of the primary entrances into the City. Its visual character impacts perceptions of the community as a whole and its desirability as a place of commerce."

COMMENTS – DEPARTMENTS AND AGENCIES

Staff circulated the application and plans to city staff and agencies with jurisdiction over the project on February 19, 2019. The following comments were received.

BUILDING INSPECTOR	A fire sprinkler system will be required. The threshold for an A-2 occupancy is 100 occupants or 5,000 square feet.
	UPDATE: The applicant has identified an alternative that will satisfy the requirements of the State Construction Code.
Ingham County Drain Commission (ICDC)	Plans must be submitted to the Drain Commissioner's Office for Site Plan and Drainage Review and approval and for Soil Erosion Control Permit evaluation. A permit must be obtained from MDOT for permission to flow an additional volume across the US-127 highway.
	UPDATE: The applicant has received a Soil Erosion Waiver from ICDC.

STAFF REVIEW

Staff finds that the Site Plan appears to meet the standards for Final Site Plan Approval with waivers and conditions noted below. Comments are provided below as findings of fact related to the requirements and standards below.

§94-227. Standards for site plan review and approval. In reviewing an application for site plan review and approval the following standards shall apply:

STATUS/ NOTE	REQUIREMENT
M = Appea	rs to meet requirement; D = Does not appear to meet requirement; I = Information Needed; R
= Recomm	endation; W = Waiver Requested; Italics = Staff comments
M	(1) The site shall be developed so that all elements shall be harmoniously and efficiently organized in relation to the size, shape, type and topography of the site and surrounding property.
	pears to be harmonious and efficiently organized. The new building addition is appropriately
scaled with	the remainder of the building. The front parking area is delineated in a manner that provides
	te circulation of vehicles and a clear path toward the entrance. See parking discussion
regarding	the existing rear lot.
M	(2) The site shall be developed so as not to impede the normal and orderly development,
	improvement, and use of surrounding property for uses permitted in this chapter.
	arking alignment on the north boundary between City Limits and Dandy Randy will correct the
current en	croachment by City Limits onto Dandy Randy's property.
M	(3) All buildings or groups of buildings shall be arranged to permit emergency vehicle
	access by some practical means to all sites.
	g is surrounded by parking area with adequate maneuvering lanes and therefore accessible less for emergency vehicle access.
М	(4) Every structure or dwelling unit shall have direct access to a public street or indirect
	access to a public street via an approved dedicated private street.
The site is	located on a public street known as Cedar Street/M-36. M-36 is under the jurisdiction of the
Michigan L	Department of Transportation.
М	(5) Appropriate measures shall be taken to ensure that the addition or removal of surface
	waters will not adversely affect neighboring properties, that controls are in place to minimize
	sedimentation and erosion, and that topographic alterations are minimized to accommodate
	storm water management.
NOTE: See	(6) below.
М	(6) Provisions shall be made for the construction of storm sewer facilities including
	grading, gutters, piping, on-site storage, and treatment of turf as required to handle
	stormwater and prevent erosion.
There is a d	drainage easement granted to 805 N. Cedar (Dandy Randy) for surface water over 801 N. Cedar

There is a drainage easement granted to 805 N. Cedar (Dandy Randy) for surface water over 801 N. Cedar (City Limits) along the northeastern portion of the property. No change to the easements is proposed. The development will not adversely impact the easement.

The applicant has received a waiver for a soil erosion permit through the Ingham County Drain Commissioner's Office.

All storm sewer contained within the site shall remain private. A drain facilities maintenance agreement is required prior to the issuance of an occupancy permit. A copy for signature will be given to the applicant if the site plan is approved.

М	(7) Secondary containment for above ground areas where hazardous substances are
	stored or used shall be provided as required by the city fire chief.
	ous substances will be stored or used on site.
M	(8) Exterior lighting shall be designed and located so that the source of illumination is
	directed away from adjacent properties, the intensity of lighting is the minimum necessary,
	and the direction of lighting is downward as much as is possible and appropriate for the
	project.
_	e proposed to existing lighting in the existing rear lot. No lighting is proposed in the front
parking ar	
M	(9) All loading and unloading areas, outside storage areas, and refuse receptacles shall be
	screened from casual view from the public rights-of-way and adjoining land uses.
Non-profit	donation receptacle currently occupying parking space will be removed.
	ster is screened from casual view from the right of way in part by the building. A proposed gate
will screen	it from the adjacent property to the north.
•	appears to meet the requirement for a single designated loading area measuring 12x25 feet.
	g area is located on the west side of the building adjacent to the dumpster. Deliveries are
received at	t this location in the mornings when the business is closed to the public.
See a-c	(10) Site plans shall meet the driveway, traffic safety, and parking standards of the city in
below	such manner as necessary to address the following:
M	a. Safe and efficient vehicular and non-vehicular circulation, including parking areas,
	non-motorized linkages to abutting parcels, uses, sidewalks, and trails.
There is a	in existing sidewalk in the MDOT right of way. The proposed plan appears to meet the
requireme	nts for safe and efficient vehicular access and Sec. 94-176 Supplemental Access Regulations.
See also co	mments in (12) below, Sec. 94 Art. X – Parking and Loading Areas.
М	b. Shared driveways and service drives.
The site h	as two access points – a curb cut along M-36 on the property and through Dandy Randy's
	the north. City Limits is the beneficiary of a 25-foot easement across Dandy Randy property to
	to allow for access onto City Limits property from M-36. Per Sec. 94-292(j)5, Adequate ingress
	to the parking area by means of clearly limited and defined drives shall be provided. Except for
_	ace provided for single-family and two-family residential lots, drives for ingress and egress to
	g area shall be not less than 20-feet wide.
M	c. Adequate and properly located utilities.
The site is	currently served by water and sanitary sewer. No new water or sanitary sewer services
	sed for this project.
M	(11) Provisions shall be made for proposed common areas and public features to be
IVI	reasonably maintained.
The Welce	ome to Mason' off-premise sign, also a public feature, placed by Kiwanis is located on City
	perty. City Limits has agreed to relocate the sign further south on their property.
See	(12) The site plan submittal shall demonstrate compliance with all applicable
below	requirements of this chapter, chapters 58 and 74, the building code, and county, state, and
below	
N 4	federal law.
<i>T</i> /2 = 12 / 21 / 2	Chapter 94 – Zoning and Chapter 100 – Dimensional Requirements
•	ppears to the meet the building height, setbacks and lot coverage site development standards
	ction 94-121(c) and Tables 100-1 and 100-2 as noted on the plan sheets.
M	Sec. 94-172(3) Vision clearance across corner lot.
	sed plan appears to meet the requirements for vision clearance where the drive intersects with
M-36. Thei	re appear to be no obstructions caused by proposed landscaping and signage.

D/W Sec. 94 – Art. X Off-street Parking and Circulation

The proposed plan appears to meet the requirements for the number and size of parking spaces. Per Sec. 94-292(j)(3) the applicant is requesting that the Planning Commission allow 18.6% (42 of 233 spaces) measure 180 s.f. (10'x18'). Staff supports the request and adds the observation that there are different peak utilization hours/seasons related to volleyball and bowling.

Sec. 94-292(j)(1) prohibits parking in a front yard in a C-2 district. The front yard is defined as the area between the front property line and the building line (Figure 100-101) except upon a finding by the planning commission that such parking is a critical component of the operation of the particular use and that adequate provisions are included for the screening and landscaping of such parking area. The existing building is pre-existing and the public entrances are oriented toward the street. The proposed addition will bring the building closer to the street and will displace existing parking near the building. Staff supports a finding that parking is a critical component to the operation of the bowling alley, restaurant and arcade and should be allowed to expand in the front yard subject to the landscaping requirements. SEE LANDSCAPING DISCUSSION.

D/W Sec. 94-241 Landscape, screening and buffer requirements

It appears that per Sec. 94-241(e)(6) the Planning Commission has the ability to waive requirements in Sec. 94-241. The applicant has submitted a request for waivers from the landscaping requirements. Therefore, the Planning Commission may choose to waive the requirements as requested so long as the intent to provide landscaping within parking areas, and to enhance aesthetic and ecological qualities, character, privacy, and land value is met. The Planning Commission has the option to accept the proposed plan and waive the requirements for the landscaping pursuant to Section 94-241 (e)(6), or require the plan to be revised with the required vegetation. Further, Sec. 94-241(e)(3) requires the Planning Commission make findings related to the parcel dimensions and/or topography for waivers from buffer requirements as follows:

- (3) If parcel dimensions and/or topography are such that a parcel cannot reasonably comply with the buffer zone standards of section 94-241(f), then the designated site plan approval body shall determine the character of the buffer based on the following criteria:
 - a. Traffic impact.
 - b. Increased building and parking lot coverage.
 - c. Increased outdoor sales, display, or manufacturing area.
- d. Physical characteristics of the site and surrounding area including topography, vegetation, and other natural features.
 - e. Visual, noise, and air pollution.
 - f. Health, safety, and welfare.
 - g. Additional dwelling units and resulting density in a residential development.
 - h. The location and dimension of the existing easements on the site.
 - i. Any other criteria pertinent to the proposed use or character of the site.

A letter from the applicant is included requesting waivers from the following missing requirements:

- Sec. 94-241(b)(2)c Minimum scale of 1'' = 20'; the actual scale is 1'' = 40'
- Sec. 94-241(b)(2)e Plan is not sealed by a registered landscape architect
- Sec. 94-241(e)(1) The plan does not provide the required buffer landscaping. See discussion below.
- Sec. 94-241(i) The plan does not provide the required amount of off-street landscaping.

Table 100-4 sets forth the required landscape buffers for the C-2 Zoning District.

	Zoning	Landscape Buffer Required
North (front)	C-2 (Dandy Randy)	А

Northeast	M-2 and C-2 separated by	А	
(front)	Cedar Street (M-36) and	(see Sec. 94-241(e)(4))	
South (rear)	C-2	А	
Southeast (side)	C-2 separated by a private drive (Jacobic Drive)	А	
West (side)	MH separated by US 127	B (see Sec. 94-241(e)(4))	

No change is proposed to the north front buffer between the volleyball courts and the Taco Bell drive-thru.

The northeast front property line requires Buffer Zone A and is adjacent to Cedar Street (M-36). The Applicant has proposed five trees where eleven are required. There are three existing trees outside of the property line in the MDOT right of way.

The southeast side property line requires Buffer Zone A. The Applicant has proposed five trees where thirteen are required. There is one existing tree that will be preserved.

The westerly side of the property is adjacent to the MDOT right of way is screened with existing vegetation. No change is proposed to the south rear buffer which abuts undeveloped property. It is staff's opinion that the addition of vegetation along the south and westerly property line in strict accordance with the requirements of Buffer Zone B is excessive.

The existing parking area in the front yard will be improved by adding two trees within two landscape islands measuring approximately 350 sq. ft. per island for a total of 700 sq. ft. The islands will improve the aesthetics of the property and provide better visual cues for traffic circulation.

The applicant has not proposed any landscaping changes within the existing parking areas. A waiver has been requested from the landscaping requirements.

M Chapter 58 - Signs

The site plan shows the existing free-standing sign on the property which will remain where it is.

No new or expanded monument sign is proposed. The existing wall sign will be relocated once the addition is complete.

Any new signage will require a separate building permit subject to the requirements of Chapter 58 of the Zoning Ordinance, including Division 2 of said chapter.

There is an off-premise sign belonging to the Kiwanis Club that reads 'Welcome to Mason.' This will be relocated further south but will remain on the property.

Chapter 74 – Subdivisions – Not applicable

Building Code – Staff has arranged for a preliminary review of the architectural plans with the Building Inspector. A formal building permit review will take place if the site plan is approved.

County, State and Federal Law – See Agency Comments. The applicant is responsible for seeking and complying with additional permit requirements.

ACTION

The planning commission shall have the authority to approve, approve with conditions, or deny an application for final site plan review and approval. The Planning Commission may also choose to amend the proposed resolution, or continue the review to a future time and date certain to allow for plans to be revised and/or for the applicant to provide additional information.

§94-229. Extension of site plan approval.

Approvals of a final site plan are valid for a period of 12 months. Only one extension of a final site plan may be granted for an additional 12 months at the sole discretion of the approving authority. A final site plan is deemed to have expired if a building permit has not been obtained for the development within 12 months of approval of the final site plan. A request to extend preliminary or final site plan validity shall be submitted prior to the expiration of the preliminary or final site plan.

§94-230. Conformance to approved site plan.

A development project shall conform to the approved final site plan. Failure to conform to the approved final site plan shall constitute a violation of this chapter.

However, amendments to an approved site plan can be made subject to the provisions of §94-228 Amendments to an approved site plan.

§94-231. Review standards for planning commission decision.

- (a) A decision rejecting, approving, or conditionally approving a site plan shall be based upon requirements and standards contained in the zoning ordinance, other statutorily authorized and properly adopted local unit of government planning documents, other applicable ordinances, and state and federal statutes.
- (b) A site plan shall be approved if it contains the information required by the zoning ordinance and is in compliance with the conditions imposed under the zoning ordinance, other statutorily authorized and properly adopted local unit of government planning documents, other applicable ordinances, and state and federal statutes.

The applicant has submitted a Final Site Plan that, with the conditions listed, appears to contain the information required by the zoning ordinance, and will meet the standards for Final Site Plan approval.

Therefore, the following motion is offered for consideration:

MOTION

Motion to approve Resolution 2019-04.

Attachments:

- 1. Resolution 2019-04
- 2. Application
- 3. Letter from the applicant dated May 3, 2019 requesting waivers from landscaping
- 4. Plan set dated January 10, 2019, last revised May 3, 2019
- 5. Architectural drawings
- 6. Stormwater Management Report
- 7. Recorded easements
- 8. Ingham County Drain Commissioner letter dated March 1, 2019

Vacant ()

CLERK'S CERTIFICATION: I hereby certify that the foregoing is a true and accurate copy of a resolution adopted by the Planning Commission at its meeting held Tuesday, May 14, 2019, the original of which is part of the City of Mason Planning Commission minutes.

Sarah J. Jarvis, City Clerk City of Mason Ingham County, Michigan Introduced: Seconded:

CITY OF MASON PLANNING COMMISSION RESOLUTION No. 2019-04

A RESOLUTION APPROVING A FINAL SITE PLAN TO CONSTRUCT A 4,828 SQUARE FOOT ADDITION TO EXPAND AN INDOOR RECREATION USE, AND TO EXPAND PARKING ON PROPERTY LOCATED AT 801 N. CEDAR STREET

May 14, 2019

WHEREAS, a request has been received from Jim Cicorelli, City Limits, for Final Site Plan Approval to construct a 4,828 square foot addition to expand an indoor recreation use, and to expand parking on property located at 801 N. Cedar Street; and

WHEREAS, the proposal was shown on plans dated January 10, 2019 and last revised on May 3, 2019; and

WHEREAS, the parcel is zoned C-2 (General Commercial District); and

WHEREAS, Section 94-222 states that any use within the C-2 zoning district requires site plan review; and

WHEREAS, the Planning Commission accepts the staff report dated May 9, 2019 as findings of fact that, with the waivers listed herein, the plans will comply with the Site Plan Approval Standards listed in Section 94-227 of the Mason Code; and

WHEREAS the Planning Commission further makes the following findings of fact:

- The Planning Commission finds parking in a front yard to be a critical component to the operations of the pre-existing structure and approves expansion of parking in the front yard; and
- The Planning Commission finds that the proposed parking meets the minimum requirement for spaces, the minimum requirement is greater than 40 spaces, making the site eligible for a reduction of the parking space size to 180 s.f. or 20%; and
- The Planning Commission finds that due to the unique parcel dimensions on the north and front of the property adjacent to the MDOT right of way and 805 North Cedar, as well as the topography to the west and south along the MDOT right of way, a waiver from the buffer requirements can be granted which considers existing vegetation, visibility for traffic, the existing easements between 801 and 805 N. Cedar and the increase in both the building and parking lot coverage.

NOW THEREFORE BE IT RESOLVED, that the City of Mason Planning Commission does hereby approve a Final Site Plan to construct a 4,828 square foot addition to expand an indoor recreation use, and to expand parking on property located at 801 N. Cedar Street with the following waivers:

- A waiver is granted to allow 42 of 233 spaces (18.6%) to measure 180 s.f. (10'x18')
- A waiver of the landscaping requirements is granted and landscaping is approved as shown on the plan

Yes()

No()

Absent	(,
Vacant	(١

CLERK'S CERTIFICATION: I hereby certify that the foregoing is a true and accurate copy of a resolution adopted by the Planning Commission at its meeting held Tuesday, May 14, 2019, the original of which is part of the City of Mason Planning Commission minutes.

Sarah J. Jarvis, City Clerk City of Mason Ingham County, Michigan



PERMIT APPLICATION

CONING

Final Site Plan Review Final Site Plan Review Special Use Permit* Administrative Review * includes Preliminary Site Plan Plan Addition, Site Plan approval issued as a feesilit of this application. * Spealure Site Plan Plan approval issued as a feesilit of this application. * Spealure Site Plan Addition Site Plan approval issued as a feesilit of this application. * Spealure Site Plan Plan approval issued as a feesilit of this application. * Spealure Site Plan Addition Site Plan approval issued as a feesilit of this application.		Applicant- Please check one of the following:	DEPARTMENT USE-ONLY	
* includes Preliminary Site Plan Review * includes Preliminary Site Plan Review * includes Preliminary Site Plan Review * Applicant Information: Name: Jim Cloorelli	Х	Preliminary Site Plan Review	Application Received:	
* includes Preliminary Site Plan Review * includes Preliminary Site Plan Review * includes Preliminary Site Plan Review Applicant Information: Name: Jim Cloorelli		Final Site Plan Review	FEB 1 4 2019	
* includes Preliminary Site Plan Review * includes Preliminary Site Plan Review * Applicant Information: Name: Jiin Cloorelli		Special Use Permit*	CITY OF MASON	
Applicant Information: Name: Jim Cicorelli Organization: City Limits Address: CC bclow Telephone Number: 517 712 - 0659		Administrative Review		
Name: Jim Cicorelli Organization: City Limits Address:	* in	icludes Preliminary Site Plan Review	Receipt #:	
Organization: City Limits Address:	Contraction Contraction			
Organization: City Limits Address: \$\(\subseteq \) Le \(\subseteq \) Telephone Number: \(\subseteq \) Telephone Number: \(\subseteq \) Toperty (owner, tenant, option, etc.): \(\subseteq \) Owner Note: If applicant is anyone other than owner, request must be accompanied by a signed letter of authorization from the owner. Property Information: Owner: \(\subseteq \) LEISURE TYME, LLC \(\text{Telephone Number:} \) Telephone Number: \(\subseteq \) Property Address: \(\subseteq \) 801 N. CEDAR STREET MASON, MI 48854 \(\text{Legal Description:} \) If in a subdivision: Subdivision Name: \(\subseteq \) Lot Number: \(\subseteq \) If Metes and Bounds (can be provided on separate sheet): \(\text{BEG ON EW } 1/4 \text{ LN SEC } 5 \text{ 8.6 FT E OF W } 1/4 \text{ COR SEC. E } 491.1 \text{ FT. N } 36-32-18 \text{ E } 367.75 \text{ FT SLY TO CEDAR ST. N } 53-27-42 \text{ W } 330.98 \text{ FT. S } 36-32-18 \text{ W } 150 \text{ FT. N } 36-32-18 \text{ E } 150 \text{ FT. N } 68-47-58 \text{ W } 231.9 \text{ FT. S } 13-24-58 \text{ W } 285.85 \text{ FT.} \\ S 02-54-58 \text{ W } 248.55 \text{ FT TO POB ON NW } 1/4 \text{ SEC } 5 \text{ T2N RIW CTTY OF MASON } 6.94 \text{ ACRES} APPLICANT CERTIFICATION By execution of this application, the person signing represents that the information provided and the accompanying documentation is, to the best of his/her knowledge, true and accurate. In addition, the person signing represents that he or she is authorized and does hereby grant a right of entry to City officials for the purpose of inspecting the premises and uses thereon to verify compliance with the terms and conditions of any Special Use Permit and/or Site Plan approval issued as a result of this application.				
Telephone Number: 517 712 - 0659		Name:		
Interest in Property (owner, tenant, option, etc.): Owner Note: If applicant is anyone other than owner, request must be accompanied by a signed letter of authorization from the owner. Property Information: Owner: LEISURE TYME, LLC		***************************************		
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approval issued as a result of this application.				
Signature: A 12.13				
Date. // V	- 1	Signature:	Date: 3 (3 (3)	

Requested Description:

Written Description: Please use this section to describe the use or uses proposed. Attach additional pages, if	
necessary.	
A 4,828 SF BUILDING ADDITION WITH ADDITIONAL PARKING	G AND OTHER ASSOCIATED AMENITIES TO EXPAND
EXISTING BUSINESS.	
Available Services	
Public Water ☑ Yes ☐ No	Paved Road (Asphalt or Concrete) ☒ Yes ☐ No
Public Sanitary Sewer ☑ Yes ☐ No	Public Storm Sewer ☑ Yes ☐ No
Estimate the Following	
Traffic Generated 25	Total Employees \(\mathcal{Z} \delta \)
Population Increase <u>50</u>	Employees in Peak Shift 35
House of Operation // AM to / AM	Total Bldg. Area Proposed 4.828 SF
Mon Day through Son and day	Parking Spaces Provided 245 EX AND PR
Project Phasing	
This project will be completed in:	☐ Multiple Phases — Total No. of Phases:
Note: The phases of construction for multi-phase project	
Application Materials The following are checklists of items that generally must I Review, Final Site Plan Review, and Special Use Permits. 94 of the Mason Code for a complete listing of application the requirements of Section 94-226(d) of the Zoning Ording X Completed application form X 2 copies of full scale site plan drawings X Plans submitted on CD or PDF (email is acceptable) X Legal description X Proof of ownership/owner authorization X Construction schedule for proposed project X Construction calculations for utilities X Fee (see below) X Any other information deemed necessary Application Fee	Applicants should review Articles VI and VII of Chapter requirements. All site plan drawings must comply with mance. Incomplete applications will not be processed.
All requests must be accompanied by a fee, as establishe	ed by the City Council. The fee schedule for Preliminary
Site Plan Reviews, Final Site Plan Reviews, and Special Use	
Administrative Reviews	\$70.00
Preliminary Site Plan Reviews	
	\$200.00
Final Site Plan Review Special Use Permits (includes preliminary site plan	\$100.00

201 West Ash Street; Mason, MI 48854-0370
Office: 517.676.9155; Website: www.mason.mi.us

Engineering Review

\$220.00*

*Two—hour minimum fee for projects increasing demand on public utilities. Actual fees incurred are billed to applicant upon completion of review.

Application Deadlines

Preliminary Site Plan/Special Use Permit Review

Applications for Preliminary Site Plan Review may be submitted at any time. Complete applications must be received a minimum four (4) weeks prior to a Planning Commission meeting to be placed on the agenda. Upon receipt of a complete application, a public hearing will be scheduled for the next regularly scheduled meeting (for Special Use Permits only). The Planning Commission has the final authority to approve, approve with conditions or deny an application for Preliminary Site Plan/Special Use Permit Review. The Planning Department staff will issue a letter to the applicant advising of any changes or revisions that may be necessary prior to making application for Final Site Plan Review.

Final Site Plan Review

Complete applications must be received a minimum of four (4) weeks prior to a Planning Commission meeting to be placed on an agenda. The Planning Commission has the final authority to approve, approve with conditions or deny an application for Final Site Plan Review. Planning Commission meetings are held on the second Tuesday after the first Monday of every month, unless the Tuesday is a Township recognized holiday, in which case the meeting is held on the following day (Wednesday).

Staff Report

The Planning Department Staff will prepare a report to the Planning Commission regarding an application for Preliminary Site Plan Review, Final Site Plan Review or Special Use Permit. The report will explain the request and review whether it complies with the zoning standards of the Mason Code. Staff will present the findings of that report during the Planning Commission meeting. An applicant who wishes to obtain one (1) copy of that report, at no cost, prior to the meeting must provide a written request to the Planning Department. The report is generally complete on the Friday before the meeting and can be mailed to the applicant or picked up by the applicant in the Planning Department.

Resources: More questions? Please contact our Customer Service Desk at 517.676.9155.

Revised 7.2.2018 (Community Development)

May 3, 2019

City of Mason Planning Commission 201 West Ash Street Mason, MI 48854

RE: Leisure Tyme Proposed Site Improvements

To whom it concerns:

Leisure Tyme is proposing a building addition and parking lot expansion to our existing development at 801 N Cedar Street. Per ordinance, we are required to bring the landscaping of the property up to current code. We are formally requesting the Planning Commission waive some of the landscaping requirements.

The Ordinance requires that the landscape plan has a maximum scale of 1"=20' and be sealed by a licensed landscape architect. The submitted landscape plan is at a 1"=40' scale. We feel that this scale adequately presents the proposed landscaping plan, and that a larger scale would not provide additional information or clarification. We also feel that the landscape plan is simplistic in nature and does not require the expertise of a licensed landscape architect. We request the Planning Commission waive these two requirements.

The proposed improvements consist of the construction of a 4,828sf addition to the front of the building. This addition will remove existing parking lot, including parking spaces. To mitigate this loss in parking, a new parking area is proposed at the northeast corner of the parcel. Even with the new parking area, there will be a net loss of 14 parking spaces from the site.

Currently, there is no landscaping on the property. We have worked with the City Planner to develop a landscaping plan for the front of the site. We believe this landscape benefits the property, and the City, by creating an aesthetically pleasing entry into the City of Mason for residents and visitors.

The proposed development includes the removal of approximately 1,300 sf of pavement along the north edge of the existing parking lot to facility the creating of landscape area. Five trees (in addition to the existing three trees) are proposed along the Cedar Street frontage. Ordinance requires eleven trees along this property line. Therefore, we are requesting a waiver for three trees. We have proposed five trees (in addition to the one existing tree) along our eastern boundary. Ordinance requires thirteen trees. Therefore, we are requesting a waiver for seven trees. We are proposing no additional plantings along the south or west property lines. Ordinance requires forty-three trees.

In addition to the above mentioned tree plantings, we are proposing to plan twenty shrubs and one tree along the front of the new addition and existing building to soften the building façade. We are also proposing the construction of two landscape islands in the center of the front parking area. Each planter will have a canopy tree planting.

It is our understanding that the Planning Commission may waive landscaping requirements, if they choose, when considering the following:

a. Traffic Impact

There is no anticipated traffic impact from the proposed development. The front two landscaping islands closest to Cedar Street at the main drive entry have been purposefully planned without tree plantings. In discussion with the City Planner, it was agreed that trees in this location could create a un-safe visual barrier to vehicle leaving and entering the site from Cedar Street.

b. Increase in Building and Parking Lot Coverage

The proposed building addition will remove approximately 5,000 sf of parking lot. The revised parking lot layout will remove approximately 1,300 sf of parking lot along the Cedar Street corridor and add approximately 4,700 sf of new parking lot in the front northeast corner of the property. This results in a net increase of building and parking lot coverage of the site by 1.6%. The proposed landscaping plan enhances the front of the parcel where this infrastructure improvements are being made.

c. Increase in outdoor sales, displays, or manufacturing area

There is no proposed increase in outdoor sales, displays or manufacturing

d. Physical characteristics of the site and surrounding area including topography, vegetation, and other natural features

The north property line abuts to the adjacent commercial business (Taco Bell and BP gas station). We feel that additional buffering with our neighbor will not add to the aesthetics of the site. This property line is not visible from the public right of way as it is behind the neighboring buildings.

The west and northwest property line abuts MDOT US 127 off-ramp right-of-way. The area within MDOT right-of-way is 50-150 feet in width and is currently naturally vegetated. The western portion of our site is turf lawn. We feel that area is sufficiently landscaped to provide aesthetically appealing visual view to travelers entering the City of Mason via the off-ramp

The south property line abuts a vacant parcel which is naturally vegetated. We feel that additional buffering along the south property line will not increase the quality of either parcel.

The southeast property line abuts a long drive which has the feel of a roadway corridor. In-lieu of a Type A buffer, we have proposed tree plantings consistent with a road frontage buffer.

Leisure Tyme Request for Waiver Page 3

The northeast property line (Cedar Street Frontage) has been landscaped with canopy trees. This planting scheme is consistent with landscape frontages of other properties along Cedar Street which also have only street trees or no plantings.

e. Visual, Noise, Air Pollution

The proposed development will not result in an increase in Visual, Noise or Air Pollution.

f. Health, Safety, Welfare

To require a full screening along the non- road frontage lines, would potentially create a unsafe condition for patrons and the community as activities on site would not be seen from outside the property.

g. Additional dwelling units and resulting density in a residential development

The proposed development is not residential in nature. It also does not abut any residential developments.

h. Location and dimension of existing easement on the site

There are no public easements located on the site.

i. Any other criteria pertinent to the proposed use or character of the site.

City Ordinance requires a Type A buffer along the non-road frontage property lines. The Type A Buffer requires: "The buffer zone shall contain a minimum six-foot high screen comprised of plant material, deciduous or evergreen trees, erns, screen walls or fence, or any combination of these elements". We feel that to completely screen this business, which is a natural attraction for the community, from view is not in the best interest of the community and would be a detriment to attracting customers to the facility. Furthermore, to fully screen the property from view would create a safety hazard in the community as no one would be able to see what is happening on the site.

The Leisure Tyme business has been in operation since 1961. During that time, the site has remained fairly non-landscaped except for lawn grass in the non-paved portions of the site. The proposed landscaping will significantly improve the aesthetics of the Cedar Street and will be a benefit to the community by providing an aesthetically pleasing entry into the City of Mason.

We hope the above narrative assists you in your decision in regards to this matter. We look forward to working with the City to our mutual success of the City of Mason.

Sincerely,

Jim Cicorelli

CITY OF MASON
P.O. BOX 370
201 W. ASH ST.
MASON MI 48854-370
Phone : (517) 676-9155
WWW.MASON.MI.US

Received From: WESTSIDE BUILDING COMPANY 916 LAURELWOOD DR LANSING MI 48917

Date: 02/14/2019

Time: 3:06:26 PM

\$0.00

Receipt: 100243366

Cashier: KM

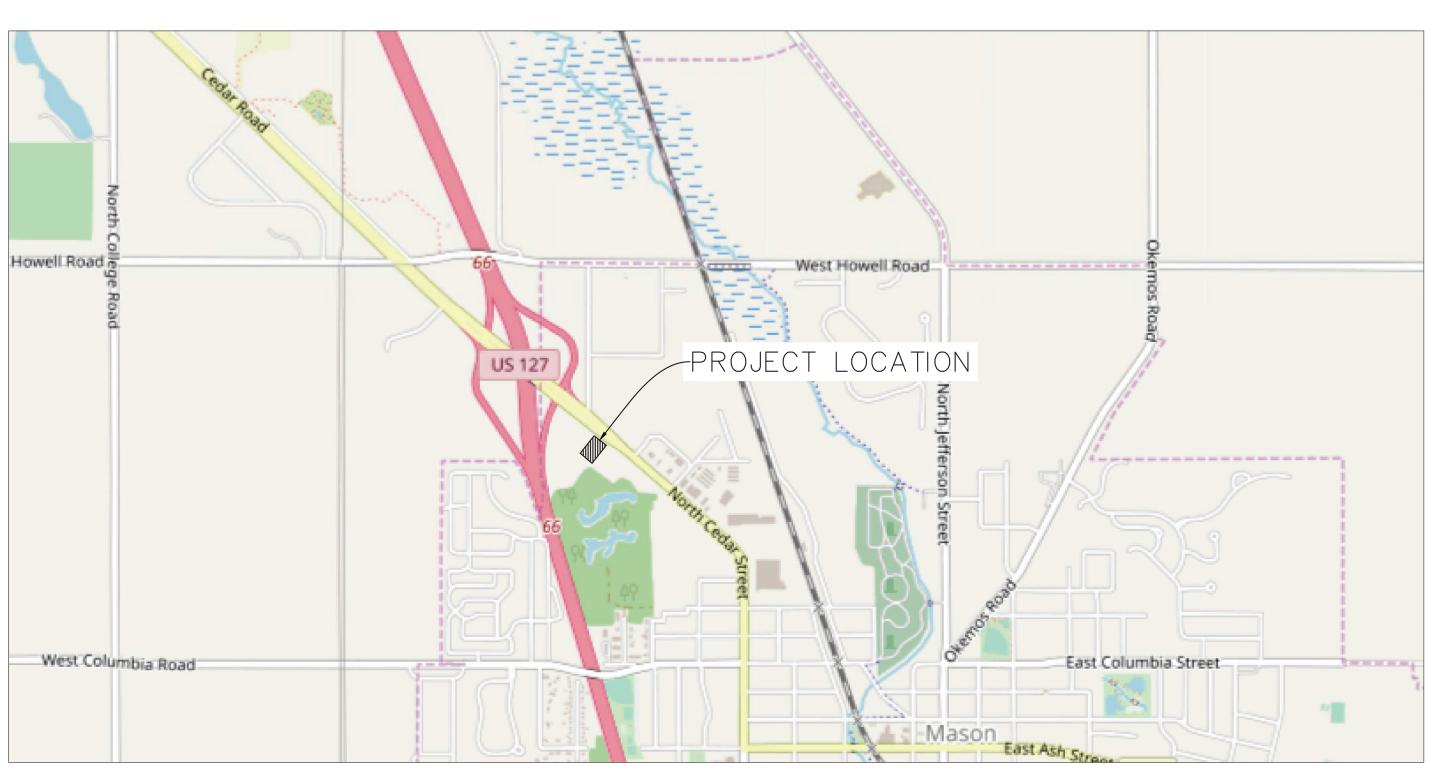
Change:

SITE PLAN REVIEW 801 N CEDAR ST

ITEM REFERENCE	AMOUNT
PERBUS PERMIT-VARIOUS BUS LICENSE	& PERMIT
S 801 S CEDAR ST- SITE PLAN REV	\$200.00
TOTAL	\$200.00
CHECK 3621 Total Tendered:	\$200.00 \$200.00

CITY LIMITS

801 CEDAR STREET SECTION 5, TOWN 2N, RANGE 1W CITY OF MASON, INGHAM COUNTY, MICHIGAN



SITE LOCATION

PROPOSED DEVELOPMENT:

A 4,828 BUILDING ADDITION TO FRONT AND ADDITIONAL PARKING IN NORTH EAST PORTION

PROPERTY DATA:

LAND AREA: 6.94 ACRES

TAX ID NUMBER: 33-19-10-05-153-006

ZONING:

CONTACTS:

PLANNING

ELECTRIC

WATER

SANITARY

STORM

TRANSPORTATION

ELIZABETH HUDE, DIRECTOR

2700 PORT LANSING RD

201 W. ASH ST

MASON, MI 48854

LANSING, MI 48906

CONSUMERS ENERGY 1955 W PARNALL RD

JACKSON MI 49201

CONSUMERS ENERGY

1955 W PARNALL RD

DONALD B. HECK, PE

DONALD B. HECK, PE

DONALD B. HECK, PE

312 NORTH STREET

(517) 676-9200

312 NORTH STREET

(517) 676-9200

MASON, MICHIGAN 48854-1169

MASON, MICHIGAN 48854-1169

MASON, MICHIGAN 48854-1169

312 NORTH STREET

(517) 676-9200

JACKSON MI 49201

(517) 788-1191

(517) 788-1191

(517) 335-3754

CITY OF MASON PLANNING DEPARTMENT

MDOT LANSING TRANSPORTATION CENTER

WOLVERINE ENGINEERS & SURVEYORS, INC.

WOLVERINE ENGINEERS & SURVEYORS, INC.

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EXISTING PARCEL ZONING: C2 PROPOSED PARCEL ZONING: C2

- BUILDING REQUIREMENTS: FRONT SETBACK = 50SIDE SETBACK = 10' SIDE SETBACK = 10'REAR SETBACK = 10'MAXIMUM BUILDING HEIGHT = 45
- BUILDING SETBACKS PROVIDED FRONT SETBACK = 120'WEST SIDE SETBACK = 47' EAST SIDE SETBACK = 88' REAR SETBACK = 91' PROPOSED BUILDING HEIGHT = 26'

MINIMUM LOT WIDTH = 100' PROVIDED LOT WIDTH = 326'

MAXIMUM PERCENT OF LOT COVERAGE BY ALL STRUCTURES = 50% EXISTING PERCENT OF LOT COVERAGE BY ALL STRUCTURES = 11.05% PROPOSED PERCENT OF LOT COVERAGE BY ALL STRUCTURES = 12.77%

MINIMUM GREENSPACE = 10% PROPOSED GREENSPACE = 49%

A PARCEL OF LAND BEING PART OF THE NORTHWEST 1/4 OF SECTION 5, TOWNSHIP 2 NORTH, RANGE 1 WEST, VEVAY TOWNSHIP, NOW CITY OF MASON, INGHAM COUNTY, MICHIGAN; BEING SURVEYED AND FURTHER DESCRIBED AS BEGINNING AT THE INTERSECTION OF THE EAST AND WEST 1/4 LINE, OF SECTION 5, T2N, R1W, AND THE EASTERLY RIGHT OF WAY LINE OF U.S. 127 AS FENCED AND OCCUPIED SAID POINT BEING NORTH 89°28'08' EAST PER STATE PLANE COORDINATES, NORTH AMERICAN T2N, R1W, VEVAY TOWNSHIP, INGHAM COUNTY, MICHIGAN; THENCE NORTH 89°28'08'' 37°07'14' EAST) 376.30 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF M-36, CEDAR STREET AS DEFINED IN SURVEY RECORDED IN BOOK 9, PAGE 739; THENCE NORTH 54°04'07'' WEST 321.56 FEET (RECORDED AS NORTH 53°27'42'' WEST 320.98 FEET) TO THE SOUTHEASTERLY LINE OF PARCEL AS PREVIOUSLY SURVEYED AND RECORDED IN LIBER 4, PAGE 1267, INGHAM COUNTY RECORDS; THENCE ALONG SAID PARCEL THE FOLLOWING THREE COURSES: SOUTH 36°01'39'' WEST 157.00 FEET (RECORDED AS SOUTH 36°32'18'' WEST 150 FEET); THENCE NORTH 53°58'21'' WEST 157.00 FEET (RECORDED AS NORTH 36°32'19' EAST 150 FEET); THENCE SOUTH FOR NORTHBOUND EXIT RAMP TO M-36, CEDAR STREET (RECORDED AS SOUTH 68°47'58'' WEST 234.9 FEET IN WARRANTY DEED LIBER 3094, PAGE 123 FOR THIS SUBJECT PARCEL); THENCE SOUTHERLY ALONG THE EAST LINE OF TRUNKLINE US-127 WAY DOCUMENT LIBER 892, PAGES 432 AND 433, INGHAM COUNTY RECORDS, THE FOLLOWING TWO COURSES: SOUTH 13°44'04'' WEST (RECORDED AS SOUTH 13°24'58'' WEST) 285.85 FEET; THENCE SOUTH 03°14'04''W 252.51 FEET (RECORDED AS SOUTH 5, TOGETHER WITH A PERPETUAL ACCESS EASEMENT AS DEFINED IN DEED LIBER 915,

BEGINNING IN THE CENTERLINE OF NOW EXISTING CEDAR STREET (M-36) AT A POINT LOCATED AS FOLLOWS: BEGINNING AT THE NORTHWEST CORNER OF SECTION 5, T2N, R1W, CITY OF MASON, INGHAM COUNTY, MICHIGAN, THENCE EAST ON THE NORTH LINE OF SECTION 5, 621.5 FEET TO THE INTERSECTION OF CENTERLINE OF HOWELL ROAD AND KERNS STREET, THENCE SOUTH IN THE CENTERLINE OF KERNS STREET SOUTH 0° 23'42'' WEST: 2117.77 FEET TO THE CENTERLINE OF CEDAR STREET, THENCE NORTH 53° 27'42'' WEST 67.85 FEET FOR SAID POINT OF BEGINNING, THENCE SOUTH 36° 32'18" WEST 200.00 FEET, THENCE NORTH 53° 27'42'' WEST 200.0 FEET, THENCE NORTH 36° 32'18'' EAST 200.0 FEET TO THE CENTER OF CEDAR STREET. THENCE SOUTH 53° 27'42'' EAST 200.0 FEET TO BEGINNING.

LEGAL DESCRIPTION:

DATUM OF 1983 (PREVIOUSLY RECORDED IN WARRANTY DEED LIBER 3094, PAGE 123 AS BEING SOUTH 89°25'40'' EAST) 67.91 FEET FROM THE WEST 1/4 CORNER, SECTION 5, EAST (RECORDED AS SOUTH 89°25'40' EAST) 502.80 FEET ALONG THE EAST AND WEST 1/4 LINE OF SAID SECTION 5; THENCE NORTH 36°01'02'' EAST (RECORDED AS NORTH (RECORDED AS NORTH 53°27'42'' WEST) 200.00 FEET; THENCE NORTH 36°01'39'' EAST 68°43'50'' WEST 235.89 FEET ADJACENT TO THE FENCED AND OCCUPIED RIGHT OF WAY RIGHT OF WAY AS PREVIOUSLY DEFINED IN DETERMINATION OF NECESSITY OF RIGHT OF 02°54'58'' WEST 248.55 FEET) TO POINT OF BEGINNING ON NORTHWEST 1/4 OF SECTION PAGE 266 AND 267, BEING A 75 FOOT EASEMENT OVER THE SOUTHEASTERLY 75 FEET OF THE FOLLOWING DESCRIBED REAL ESTATE:

LEGEND

SQUARE FEET

TOP OF BANK

TOP OF CURB

TOP OF WALK

TYPICAL

WATER

TOP OF RETAINING WALL

STORM

STM

WTR

ABBREVIATIONS SYMBOLS A ABANDONED MANHOLE BC BACK OF CURB O PR/EX COMBINED MANHOLE BITUMINOUS D PR/EX STORM MANHOLE/CATCHBASIN BUILDING ☐ PR/EX STORM CATCH BASIN (CURB) BULKHEAD → PR/EX FLARED END SECTION BOTTOM OF BAN PR/EX STORM DOWNSPOUT CALCULATED S PR/EX SANITARY MANHOLE CENTERLINE ° PR/EX SANITARY CLEANOUT CATCH BASIN (W) PR/EX WATER MANHOLE CLEAN OUT ₩Y PR/EX WATER VALVE COMBINED CONCRETE ♦ PR/EX WATER SPRINKLER ELECTRIC MW PR/EX MONITORING WELL ELEVATION PR/EX FIRE HYDRANT ENCROACHMENT R PR/EX UTILITY RISER EDGE OF METAL T PR/EX COMMUNICATIONS MANHOLE EXISTING PR/EX GAS VALVE FACE OF CURB PR/EX GAS METER FINISH SURFACE © PR/EX ELECTRIC MANHOLE FLARED END SECTION PR/EX ELECTRIC POWER POLE FLOW LINE -> PR/EX ELECTRIC POWER POLE GUY WIRE FOUND CAPPED IRON ROD PR/EX ELECTRIC TRANSFORMER GAS LINE ☐ UTILITY HANDHOLE LINEAR FEET LANDSCAPE ←GO PR/EX POWER POLE WITH LIGHT FIXTURE MANHOLE ♠ PR/EX FLOOD LIGHT MEASURED PR/EX DECIDUOUS TREE MONUMENT PR/EX CONIFEROUS TREE NUMBER ↑ STUMP ON CENTER ∞ ∞ PR/EX PARKING METER OFFSET PR/EX MAILBOX PROPERTY LINE AC PR/EX AC UNIT PROPOSED → PR/EX SIGN RECORDED POINT OF BEGINNING PR/EX FLAG POLE ■ PR/EX BENCH POINT ON LINE → PR/EX BIKE RACK RIGHT-OF-WAY PR/EX PARKING SPACE COUNT SAN SANITARY

LINE TYPES

	PR/EX CURB AND GUTTER
xxx	PR/EX MAJOR CONTOUR
XXX	PR/EX MINOR CONTOUR
x'' STM x'' S TM _	PR/EX STORM SEWER
X' SAN X'' SAN	PR/EX SANITARY SEWER
UG ELEC UG ELEC	PR/EX UNDERGROUND ELECTRIC LII
OH ELEC OH ELEC	PR/EX OVERHEAD ELECTRIC LINE
X' GAS	PR/EX GAS LINE
X'' WTR	PR/EX WATER LINE
	PR/EX COMMUNICATION LINE
X'' STE X'' STE	PR/EX STEAM LINE
	PR/EX TREE LINE
XXXXXXX	PR/EX FENCE
	RIGHT-OF-WAY
	PROPERTY LINE
	— ADJACENT PROPERTY LINE
	HISTORICAL PROPERTY LINE
	— EASEMENT
	— SETBACK
	SECTION LINE
	— SILT FENCE
	DISTURBANCE LIMITS
	RUNOFF AREA
	SOIL TYPE CONTOURS (NRCS)
***********************	CURB REMOVAL
	BITUMINOUS PAVEMENT REMOVAL
	CONCRETE REMOVAL
	CONCRETE HATCHING
	BITUMINOUS PAVEMENT HATCHING
	STONE LANDSCAPE HATCHING
	MULCHED LANDSCAPE HATCHING

SHEET INDEX

1 CIVIL - COVER 2 CIVIL - OVERALL SITE PLAN 3 CIVIL - DEMOLITION 4 CIVIL - LAYOUT

5 CIVIL - GRADING & UTILITIES 6 CIVIL - DETAILS

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH ACT 240, PA OF 1937 AS AMENDED.



5/3/2019

O PR/EX CONC BALLARD

TRAFFIC LIGHT

ITEM TO BE REMOVED

SECTION CORNER

SOIL XXX SOIL CLASSIFICATION (NCRS)

SURFACE DRAINAGE PATH DIRECTION

(SOIL BORING

⊕ BENCHMARK

FOUND MONUMENTATION

O SET CAPPED IRON ROD #

Kurt R. Krahulik LICENSE NO. 046794 DC ENGINEERING 1210 N. CEDAR ST, SUITE B LANSING, MI 48906 (517) 853-7866

OWNER	LEISURE TYME LLC 801 N CEDAR MASON, MI 48854
ARCHITECT	PAUL D. BARBOUR AND ASSOCIATES 9617 COLUMBIA HWY. EATON RAPIDS, MI 48827 (517) 663-0088
ENGINEER	DC ENGINEERING PC 1210 NORTH CEDAR ST, SUITE B LANSING, MICHIGAN 48906 (517) 852-7866
CONTRACTOR	WESTSIDE BUILDING COMPANY 3310 BARDAVILLE DRIVE, SUITE 3 LANSING, MI 48906 (517) 749-3898



2019-03-29 REVISED BOUNDARY

2019-03-05 CITY COMMENTS

REVISIONS

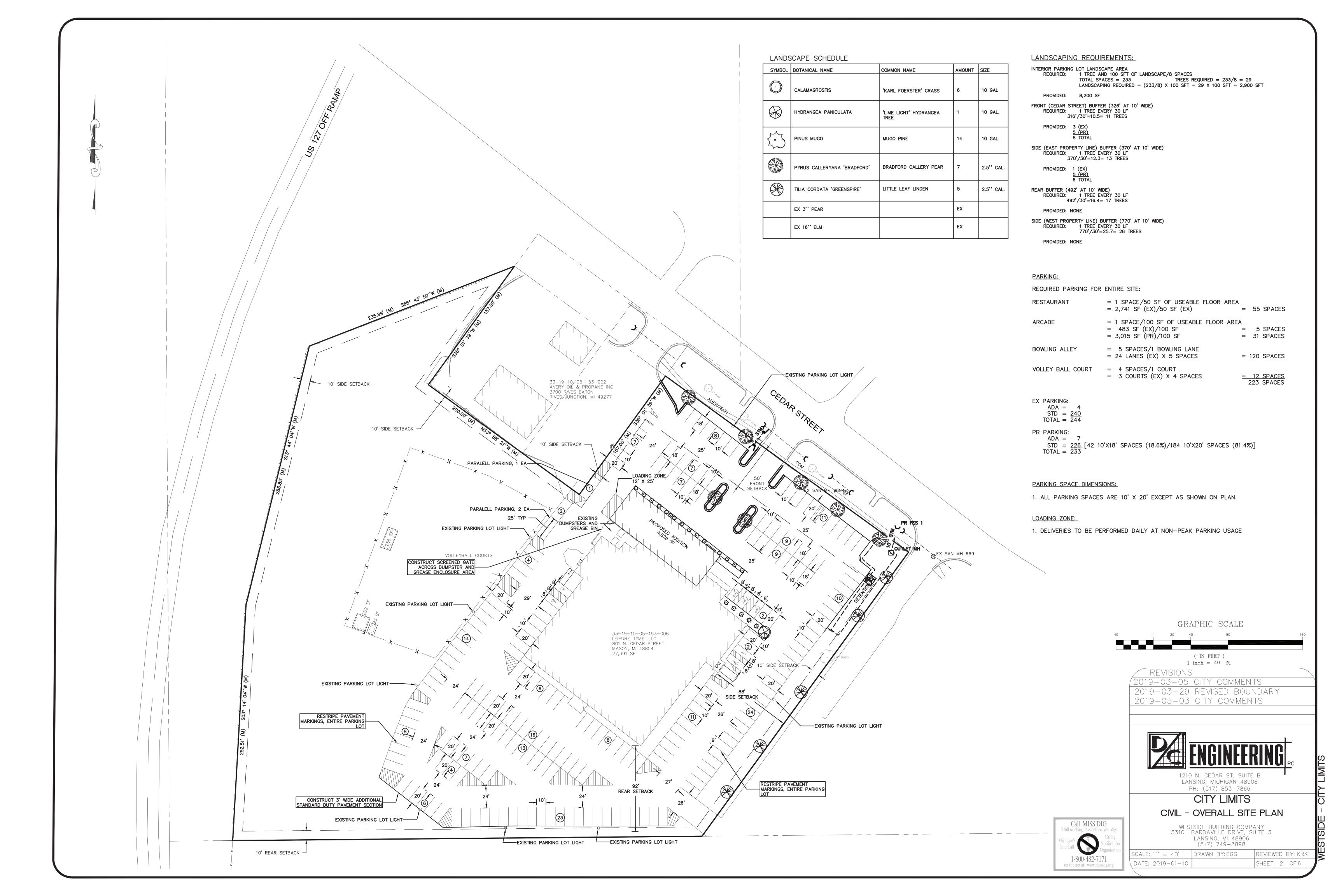


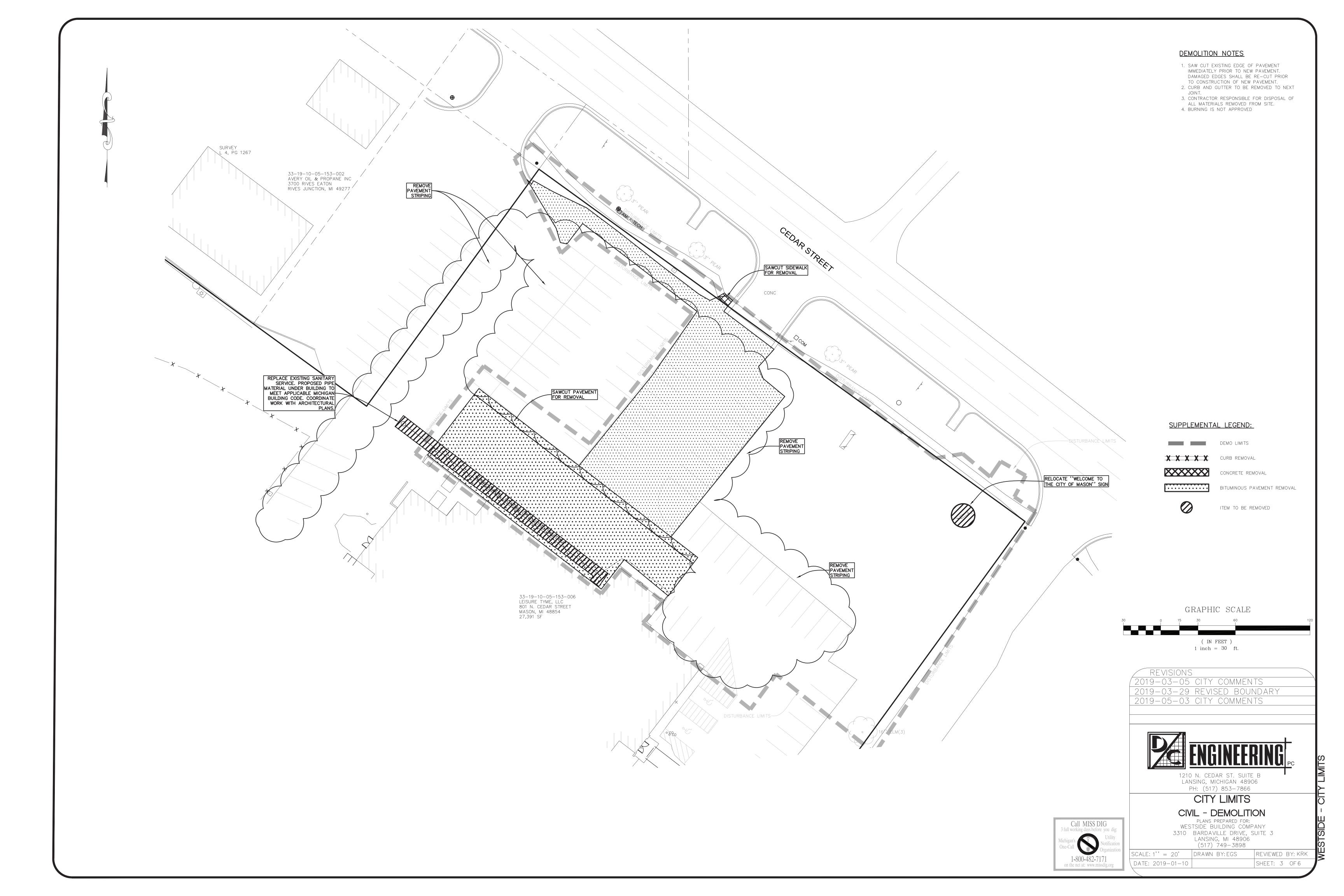
LANSING, MICHIGAN 48906 PH: (517) 853-7866

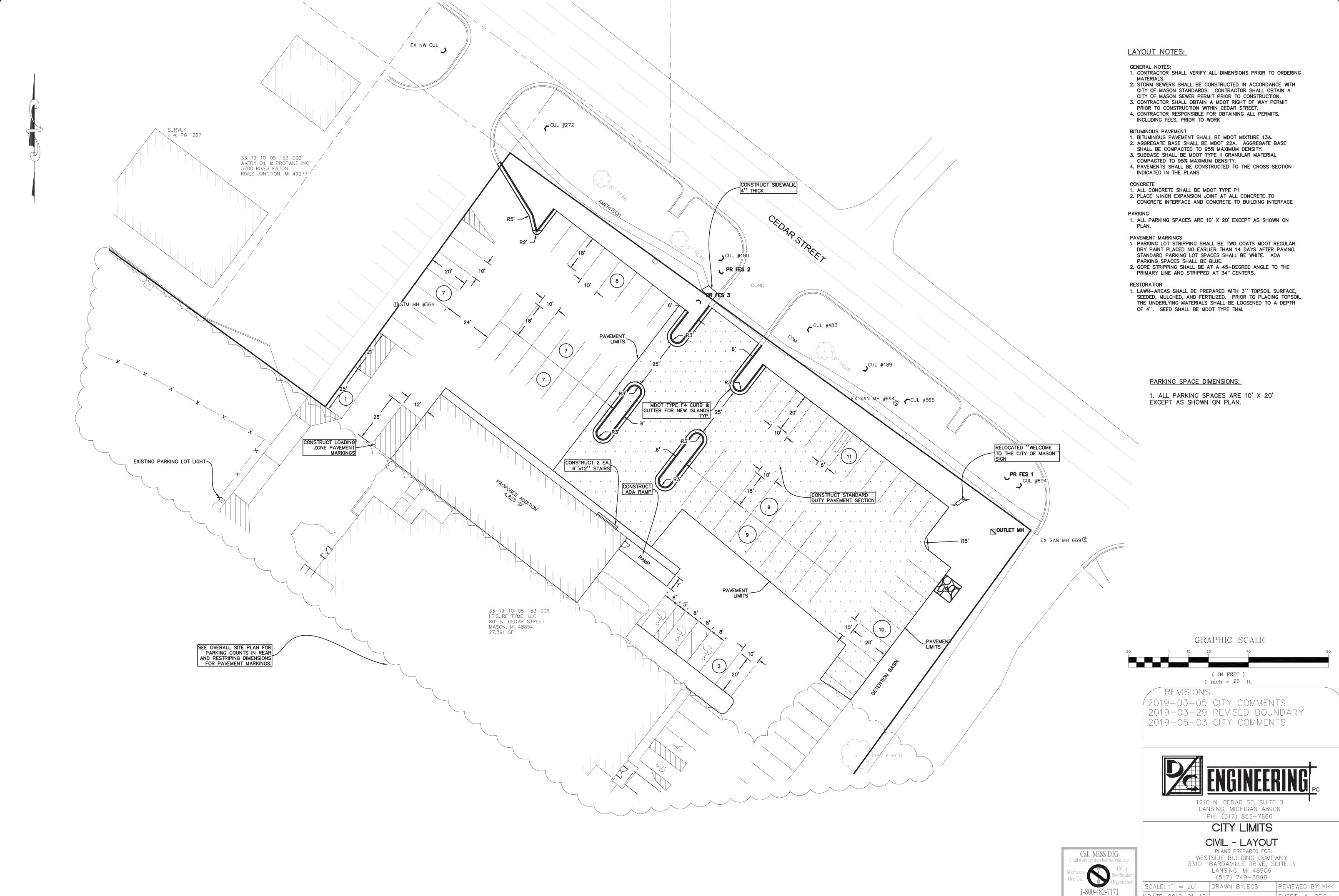
CITY LIMITS CIVIL - COVER PLANS PREPARED FOR: WESTSIDE BUILDING COMPANY 3310 BARDAVILLE DRIVE, SUITE 3

LANSING, MI 48906 (517) 749-3898SCALE: NONE DRAWN BY: EGS REVIEWED BY: KRK DATE: 2019-01-10 | SHEET: 1 OF 6

Call MISS DIG 1-800-482-7171 the net at: www.miss



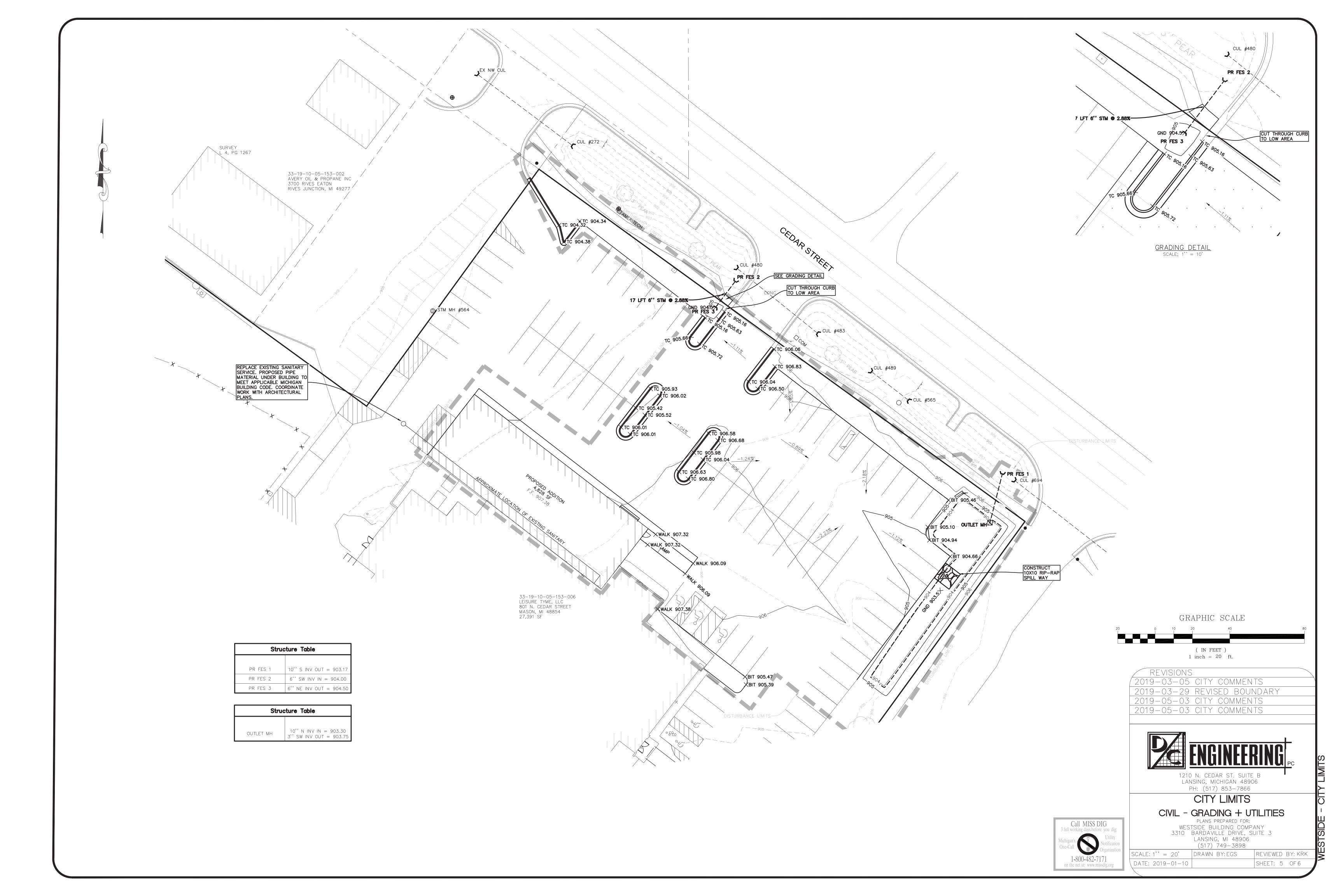


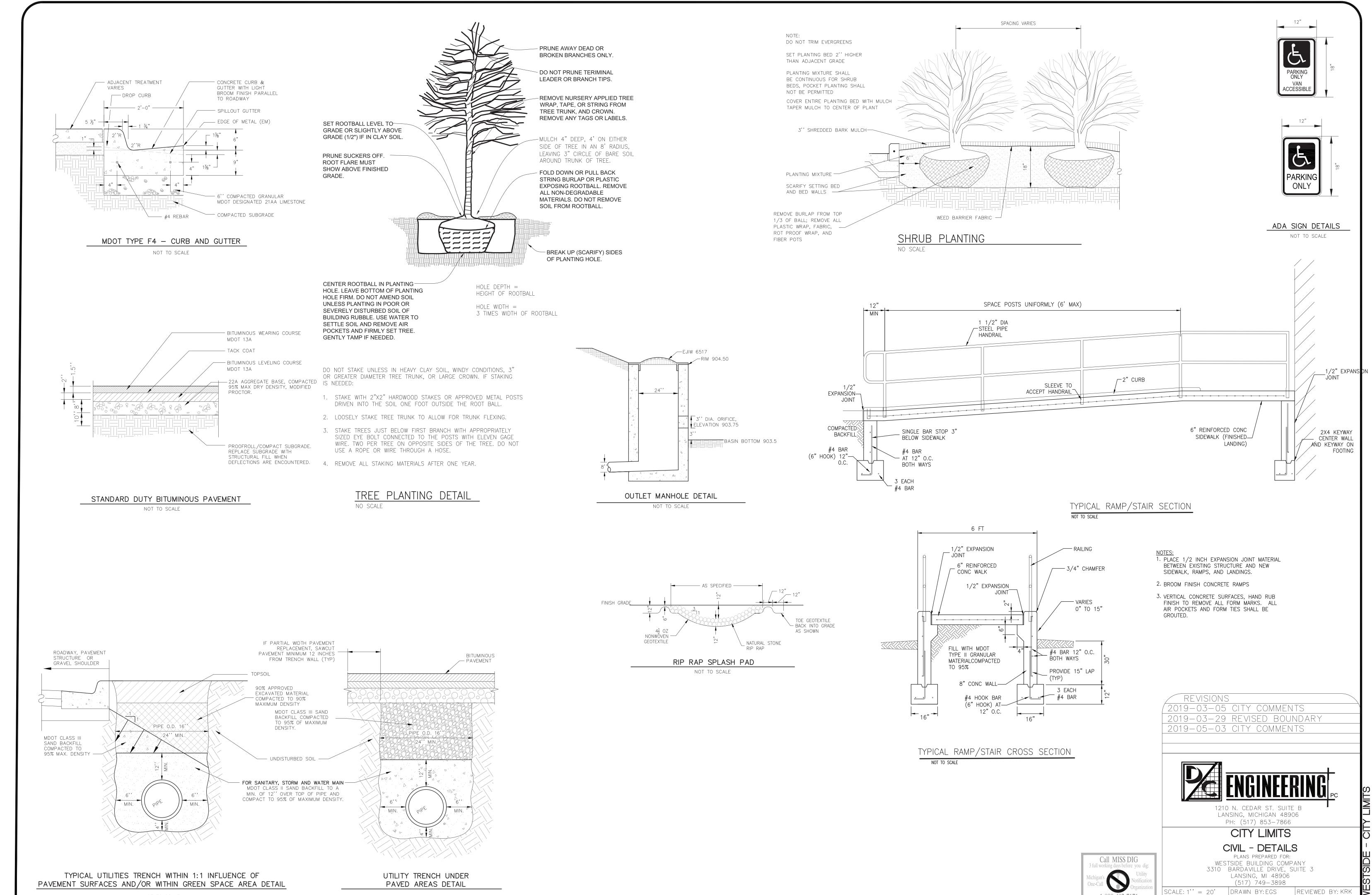


TSIDE - CITY LIMITS

SHEET: 4 OF 6

DATE: 2019-01-10





NOT TO SCALE

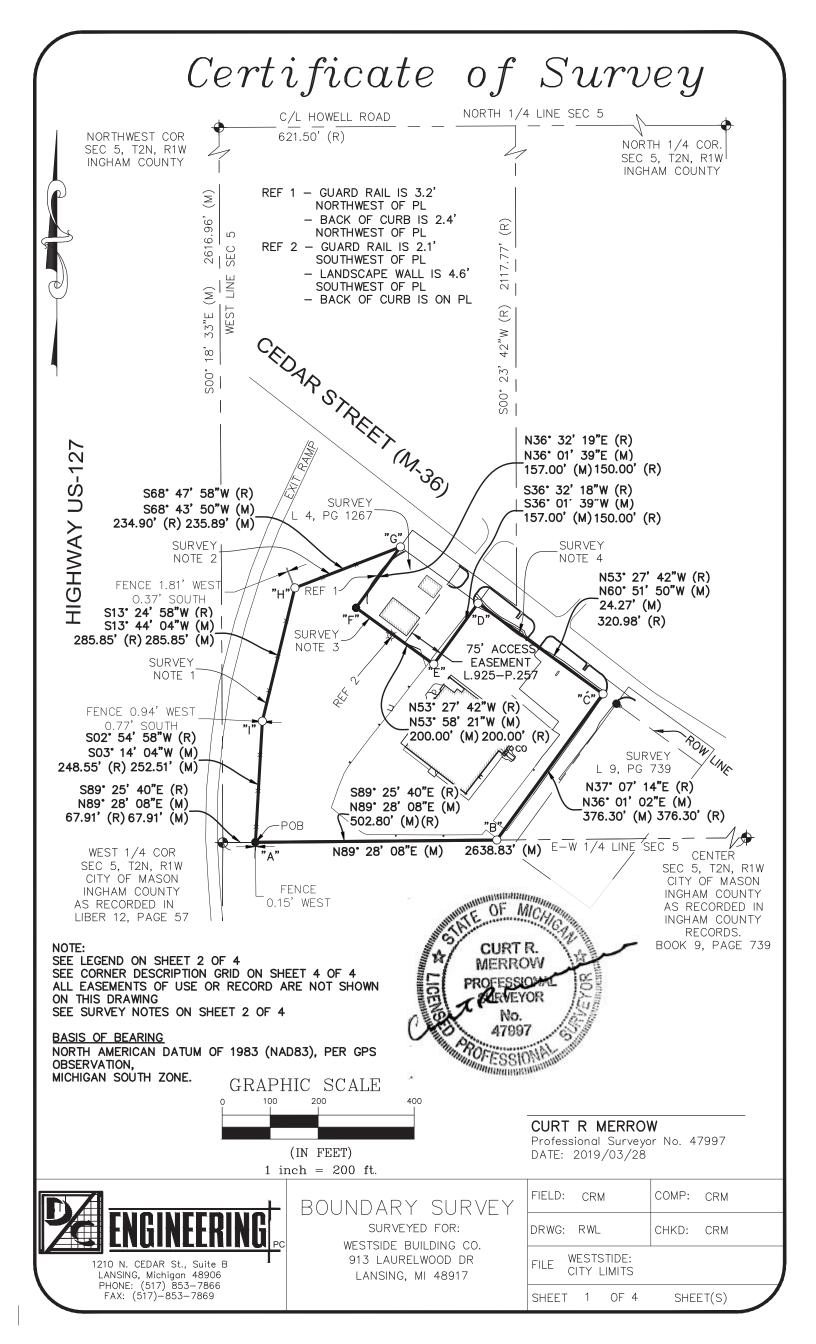
NOT TO SCALE

DRAWN BY: EGS REVIEWED BY: KRK
SHEET: 6 OF 6

1-800-482-7171

on the net at: www.missdi

DATE: 2019-01-10



Certificate of Survey

SURVEY NOTES:

DURING THE COURSE OF THE SURVEY, IT WAS FOUND THERE WERE SUBSTANTIAL DIFFERENCES BETWEEN DESCRIBED AND OCCUPIED LINES OF OWNERSHIP. THE NOTES BELOW IDENTIFY THE SIGNIFICANT ADJUSTMENTS TO THE AS PROVIDED LEGAL DESCRIPTION.

- THE MDOT RIGHT OF WAY WAS HELD ALONG THE WEST LINE OF THE SITE. THE WEST LINE OF SUBJECT PARCEL WAS SURVEYED AND DEFINED PER TRUNKLINE US-127 RIGHT OF WAY DEFINED IN DETERMINATION OF NECESSITY OF RIGHT OF WAY DOCUMENT LIBER 892, PAGE 432 AND 433, INGHAM COUNTY RECORDS AND SHOWN ON MDOT RIGHT OF WAY MAP, SHEET 24, DATED 2-03-2006. THE EXISTING RIGHT OF WAY FENCE ALONG THE EAST SIDE OF SAID HIGHWAY IS CONSISTANT WITH THE COMMON LINE BETWEEN PROPERTIES AS DEFINED BY MDOT IN ABOVE DOCUMENTS.
- 2. THE NORTHWESTERLY PROPERTY LINE WAS SURVEYED BY HOLDING THE DEFLECTION POINT AT THE NORTHWESTERLY PROPERTY LINE WAS SURVEYED BY HOLDING THE DEFLECTION POINT AT LOCATION CORNER "H". THIS CORNER WAS DEFINED BY MDOT IN DOCUMENT LIBER 892, PAGE 433. THIS PORTION OF RIGHT OF WAY AS DEFINED BY MDOT IN ABOVE SAID DETERMINATION OF NECESSITY DOCUMENT DID NOT MATCH THAT WHICH WAS OCCUPIED BY MDOT RIGHT OF WAY FENCE. THE BEARING ALONG THIS LEG OF THE PROPERTY APPEARS TO BE A SCRIVENER ERROR IN SAID DOCUMENT. THE NORTHEASTERLY END OF THIS PROPERTY LINE WAS HELD WHERE THE 43 FEET RIGHT OF WAY OF M-36 IS DEFINED IN SURVEY RECORDED IN LIBER 4, PAGE 1267. THE LINE SURVEYED CLOSELY MATCHES THE OCCUPIED RIGHT OF WAY FENCE AS PREVIOUSLY CONSTRUCTED AND OCCUPIED BY BOTH PARTIES OCCUPIED BY BOTH PARTIES.
- 3. THIS LINE WAS HELD BASED ON THE ADJACENT PARCEL AS WAS PREVIOUSLY SURVEYED IN 1986, BY POLARIS SURVEYING CO, SURVEY LIBER 4, PAGE 1267. THIS LINE WAS PERPETUATED BY UNRECORDED SITE PLAN SURVEY BY MR. GLENN A. FAUSER, PS 18657, DATED 3-18-1998. THE SAID ADJACENT PARCEL AS SHOWN WAS RETRACED DURING THIS SURVEY FROM THE NORTHWEST CORNER OF SECTION 5. A 1/2" IRON WAS FOUND AT THE SOUTHWESTERLYMOST CORNER OF THIS PARCEL. THE ABOVE REFERENCED SITE PLAN WHICH WAS COMPLETED IN 1998 APPEARS TO BE CONSISTANT WITH FEATURES BUILT ON SITE AND CURRENTLY IN PLACE ON SITE. DURING THE COURSE OF THIS SUBJECT SURVEY, THE PREVIOUSLY SURVEYED, MONUMENTED, AND DEVELOPED PROPERTY DATING TO 1986 WAS HELD. NO ADDITIONAL INFORMATION WAS FOUND TO DEFINE THESE COMMON LINES IN A 1986 WAS HELD. DIFFERENT LOCATION.
- THE RIGHT OF WAY FOR THE SOUTHWEST LINE OF STATE TRUNKLINE M-36, CEDAR STREET WAS DEFINED BASED ON PRE-EXISTING SURVEYS ON EACH SIDE OF THIS SEGMENT OF RIGHT OF WAY LINE. SURVEYS WHICH WERE USED WAS THAT AS DEFINED IN BOOK 9 OF SURVEYS, PAGE 739 TO THE SOUTHEAST AND HOLDING THE RIGHT OF WAY POSITION AS DEFINED IN LIBER 4 OF SURVEYS, PAGE 1267 TO THE NORTHWEST.

LEGEND:

= FOUND PROPERTY IRON

SET CAPPED IRON ROD #47997

= SECTION CORNER

PROPERTY LINE

SECTION LINE ADJACENT PARCEL LINE

RIGHT-OF-WAY

= REFERENCE REF

ROW = RIGHT-OF-WAY

= PROPERTY LINE PL

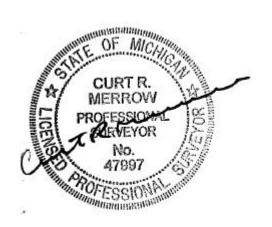
= PLACE OF BEGINNING POR

= POINT ON LINE P.O.L.

= PREVIOUSLY RECORDED AS (R)

(M) = MEASURED

"A" = CORNER REFERENCE



CURT R MERROW

Professional Surveyor No. 47997 DATE: 2019/03/28



LANSING, Michigan 48906 PHONE: (517) 853-7866 FAX: (517)-853-7869

BOUNDARY SURVEY

SURVEYED FOR: WESTSIDE BUILDING CO. 913 LAURELWOOD DR LANSING, MI 48917

FIELD: CRM	COMP: CRM
DRWG: RWL	CHKD: CRM
FILE WESTSTIDE: CITY LIMITS	
SHEET 2 OF 4	SHEET(S)

Certificate of Survey

LEGAL DESCRIPTION AS PROVIDED: PER WARRANTY DEED: LIBER 3094 - PAGE 123

801 NORTH CEDAR STREET, BEING PROPERTY NUMBER 33-19-10-05-153-006:

BEGINNING ON THE EAST AND WEST 1/4 LINE, OF SECTION 5, CITY OF MASON, 83.6 FEET EAST OF THE WEST 1/4 CORNER OF SAID SECTION, THENCE EAST 491.1 FEET; THENCE NORTH 36'32'18" EAST 367.75 FEET SOUTHERLY TO CEDAR STREET; THENCE NORTH 53'27'42" WEST: 320.98 FEET; THENCE SOUTH 36'32'18" WEST 150 FEET; THENCE NORTH 53'27'42" WEST 200 FEET; THENCE NORTH 36'32'18" EAST 150 FEET; THENCE SOUTH 68'47'58" WEST 234.9 FEET; THENCE SOUTH 13'24'58" WEST 285.85 FEET; THENCE SOUTH 02'54'58"; THENCE WEST 248.55 FEET TO THE POINT OF BEGINNING ON NORTHWEST 1/4 SECTION 5, T2N, R1W, TOGETHER WITH A 75 FOOT EASEMENT OVER THE SOUTHEASTERLY 75 FEET OF THE FOLLOWING DESCRIBED REAL ESTATE:

BEGINNING IN THE CENTERLINE OF NOW EXISTING CEDAR STREET (M-36) AT A POINT LOCATED AS FOLLOWS: BEGINNING AT THE NORTHWEST CORNER OF SECTION 5, T2N, R1W, CITY OF MASON, INGHAM COUNTY, MICHIGAN, THENCE EAST ON THE NORTH LINE OF SECTION 5, 621.5 FEET TO THE INTERSECTION OF CENTERLINES OF HOWELL ROAD AND KERNS STREET, THENCE SOUTH IN THE CENTERLINE OF KERNS STREET SOUTH 0°23'42" WEST 2117.77 FEET TO THE CENTERLINE OF CEDAR STREET, THENCE NORTH 53°27'42" WEST 67.85 FEET FOR SAID POINT OF BEGINNING, THENCE SOUTH 36°32'18" WEST 200.00 FEET, THENCE NORTH 53°27'42" WEST 200.0 FEET, THENCE NORTH 36°32'18" EAST 200.0 FEET TO THE CENTER OF CEDAR STREET. THENCE SOUTH 53°27'42" EAST 200.0 FEET TO BEGINNING, THE FOREGOING PROPERTY MAY ALSO BE DESCRIBED A: S FOLLOWS ACCORDING TO A CERTAIN SURVEY:

BEGINNING AT THE INTERSECTION OF THE EAST AND WEST 1/4 LINE, OF SECTION 5, T2N, R1W, AND THE EASTERLY RIGHT OF WAY LINE OF U.S. 127 AS FENCED AND OCCUPIED SAID POINT BEING SOUTH 89°25'40" EAST 67.91 FEET FROM THE WEST 1/4 CORNER, SECTION 5, T2N, R1W, VEVAY TOWNSHIP, INGHAM COUNTY, MICHIGAN; THENCE SOUTH 89°25'40" EAST 502.80 FEET ALONG THE EAST AND WEST 1/4 LINE OF SAID SECTION 5; THENCE NORTH 37°07'14" EAST 376.30 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF M-36, CEDAR STREET; THENCE NORTH 53° 27'42" WEST 320.98 FEET; THENCE SOUTH 36°32'18" WEST 150 FEET; THENCE NORTH 53° 27'42" WEST 200 FEET; THENCE NORTH 36°32'19" EAST 150 FEET; THENCE SOUTH 68°47'58" WEST 234.9 FEET; THENCE SOUTH 13°24'58" WEST 285.85 FEET; THENCE SOUTH 02°54'58" WEST 248.55 FEET TO POINT OF BEGINNING ON NORTHWEST 1/4 OF SECTION 5, TOGETHER WITH A 75 FOOT EASEMENT OVER THE SOUTHEASTERLY 75 FEET OF THE FOLLOWING DESCRIBED REAL ESTATE:

BEGINNING IN THE CENTERLINE OF NOW EXISTING CEDAR STREET (M-36) AT A POINT LOCATED AS FOLLOWS: BEGINNING AT THE NORTHWEST COMER OF SECTION 5, T2N, R1W, CITY OF MASON, INGHAM COUNTY, MICHIGAN, THENCE EAST ON THE NORTH LINE OF SECTION 5, 621.5 FEET TO THE INTERSECTION OF CENTERLINES OF HOWELL ROAD AND KERNS STREET, THENCE SOUTH IN THE CENTERLINE OF KERNS STREET SOUTH 0° 23'42" WEST: 2117.77 FEET TO THE CENTERLINE OF CEDAR STREET, THENCE NORTH 53° 27'42" WEST 67.85 FEET FOR SAID POINT OF BEGINNING, THENCE SOUTH 36° 32'18" WEST 200.00 FEET, THENCE NORTH 53° 27'42" WEST 200.0 FEET, THENCE NORTH 36° 32'18" EAST 200.0 FEET TO THE CENTER OF CEDAR STREET. THENCE SOUTH 53° 27'42" EAST 200.0 FEET TO BEGINNING.

SEE LEGAL DESCRIPTION AS SURVEYED SHEET 4 OF 4



CURT R MERROW

Professional Surveyor No. 47997

DATE: 2019/03/28



BOUNDARY SURVEY

SURVEYED FOR: WESTSIDE BUILDING CO. 913 LAURELWOOD DR LANSING, MI 48917

FIELD: CRM	COMP: CRM
DRWG: RWL	CHKD: CRM
FILE WESTSTIDE: CITY LIMITS	
SHEET 3 OF 4	SHEET(S)

Certificate of Survey

LEGAL DESCRIPTION AS SURVEYED:

A PARCEL OF LAND BEING PART OF THE NORTHWEST 1/4 OF SECTION 5, TOWNSHIP 2 NORTH, RANGE 1 WEST, VEVAY TOWNSHIP, NOW CITY OF MASON, INGHAM COUNTY, MICHIGAN; BEING SURVEYED AND FURTHER DESCRIBED AS BEGINNING AT THE INTERSECTION OF THE EAST AND WEST 1/4 LINE, OF SECTION 5, T2N, R1W, AND THE EASTERLY RIGHT OF WAY LINE OF U.S. 127 AS FENCED AND OCCUPIED SAID POINT BEING NORTH 89°28'08" EAST PER STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983 (PREVIOUSLY RECORDED IN WARRANTY DEED LIBER 3094, PAGE 123 AS BEING SOUTH 89°25'40" EAST) 67.91 FEET FROM THE WEST 1/4 CORNER, SECTION 5, T2N, R1W, VEVAY TOWNSHIP, INGHAM COUNTY, MICHIGAN; THENCE NORTH 89°28'08" EAST (RECORDED AS SOUTH 89°25'40" EAST) 502.80 FEET ALONG THE EAST AND WEST 1/4 LINE OF SAID SECTION 5; THENCE NORTH 36°01'02" EAST (RECORDED AS NORTH 37°07'14" EAST) 376.30 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF M—36, CEDAR STREET AS DEFINED IN SURVEY RECORDED IN BOOK 9, PAGE 739; THENCE NORTH 54°04'07" WEST 321.56 FEET (RECORDED AS NORTH 53°27'42" WEST 320.98 FEET) TO THE SOUTHEASTERLY LINE OF PARCEL AS PREVIOUSLY SURVEYED AND RECORDED IN LIBER 4, PAGE 1267, INGHAM COUNTY RECORDS; THENCE ALONG SAID PARCEL THE FOLLOWING THREE COURSES: SOUTH 36°01'39" WEST 157.00 FEET (RECORDED AS SOUTH 36°32'18" WEST 150 FEET); THENCE NORTH 53°58'21" WEST (RECORDED AS NORTH 53°27'42" WEST) 200.00 FEET; THENCE NORTH 36°01'39" EAST 157.00 FEET (RECORDED AS NORTH 36°32'19" EAST 150 FEET); THENCE SOUTH 68°43'50" WEST 235.89 FEET ADJACENT TO THE FENCED AND OCCUPIED RIGHT OF WAY FOR NORTHBOUND EXIT RAMP TO M-36, CEDAR STREET (RECORDED AS SOUTH 68°47'58" WEST 234.9 FEET IN WARRANTY DEED LIBER 3094, PAGE 123 FOR THIS SUBJECT PARCEL); THENCE SOUTHERLY ALONG THE EAST LINE OF TRUNKLINE US-127 RIGHT OF WAY AS PREVIOUSLY DEFINED IN DETERMINATION OF NECESSITY OF RIGHT OF WAY DOCUMENT LIBER 892, PAGES 432 AND 433, INGHAM COUNTY RECORDS, THE FOLLOWING TWO COURSES: SOUTH 13°44'04" WEST (RECORDED AS SOUTH 13°24'58" WEST) 285.85 FEET; THENCE SOUTH 03°14'04"W 252.51 FEET (RECORDED AS SOUTH 02°54'58" WEST 248.55 FEET) TO POINT OF BEGINNING ON NORTHWEST 1/4 OF SECTION 5, TOGETHER WITH A PERPETUAL ACCESS EASEMENT AS DEFINED IN DEED LIBER 915, PAGE 266 AND 267, BEING A 75 FOOT EASEMENT OVER THE SOUTHEASTERLY 75 FEET OF THE FOLLOWING DESCRIBED REAL ESTATE:

BEGINNING IN THE CENTERLINE OF NOW EXISTING CEDAR STREET (M-36) AT A POINT LOCATED AS FOLLOWS: BEGINNING AT THE NORTHWEST CORNER OF SECTION 5, T2N, R1W, CITY OF MASON, INGHAM COUNTY, MICHIGAN, THENCE EAST ON THE NORTH LINE OF SECTION 5, 621.5 FEET TO THE INTERSECTION OF CENTERLINE OF HOWELL ROAD AND KERNS STREET, THENCE SOUTH IN THE CENTERLINE OF KERNS STREET SOUTH 0° 23'42" WEST: 2117.77 FEET TO THE CENTERLINE OF CEDAR STREET, THENCE NORTH 53° 27'42" WEST 67.85 FEET FOR SAID POINT OF BEGINNING, THENCE SOUTH 36° 32'18" WEST 200.00 FEET, THENCE NORTH 53° 27'42" WEST 200.0 FEET, THENCE NORTH 36° 32'18" EAST 200.0 FEET TO THE CENTER OF CEDAR STREET. THENCE SOUTH 53° 27'42" EAST 200.0 FEET TO BEGINNING.

I hereby certify that I have surveyed and mapped the parcel of land shown in accordance with Act 132, P.A. 1970, as amended. And that the error in the relative positional precision of points established does not exceed 1 part in 10,000. See attached table for relative positional precision for each corner. I certify the map closure of bearings and distances around the perimeter of the property has been calculated to be 1 part in 453,800. This survey is within limits accepted by the practice of professional surveying. I further certify that there are no visible encroachments upon the subject parcel unless noted on the map.

CORNER	RELATIVE POSITIONAL PRECISION	DESCRIPTION OF POINT
Α	0.016'	FND 1/2" IRON & UNREADABLE CAP
В	0.011'	SET 1/2" IRON/CAP#47997
С	0.010'	SET 1/2" IRON/CAP#47997
D	0.012'	SET 1/2" IRON/CAP#47997
E	0.010'	SET 1/2" IRON/CAP#47997
F	0.017	FND 1/2" IRON
G	0.013'	SET 1/2" IRON/CAP#47997
Н	0.011'	SET 1/2" IRON/CAP#47997
I	0.010'	SET 1/2" IRON/CAP#47997



CURT R MERROW

Professional Surveyor No. 47997

DATE: 2019/03/28



BOUNDARY SURVEY

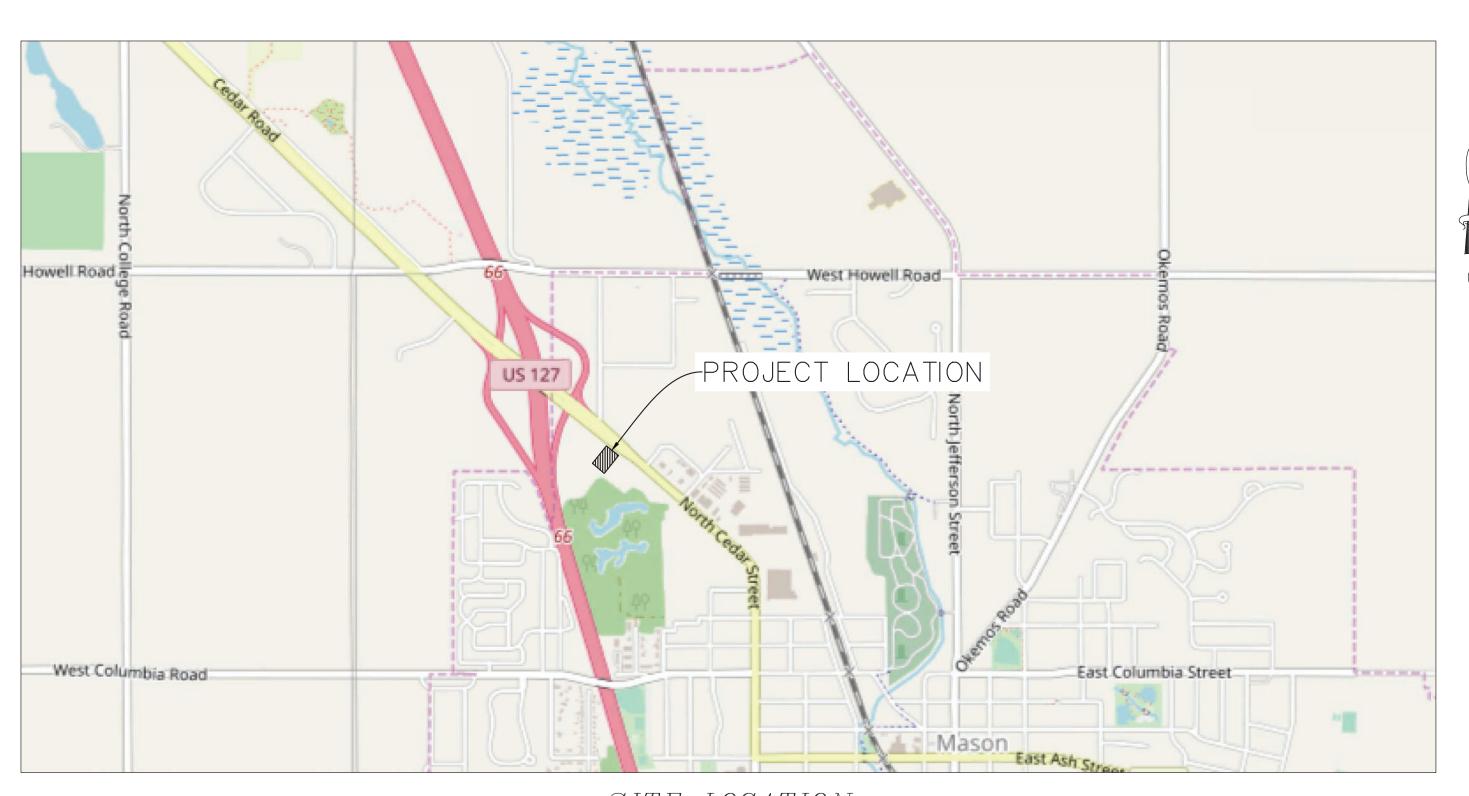
SURVEYED FOR: WESTSIDE BUILDING CO. 913 LAURELWOOD DR LANSING, MI 48917

FIELD: CRM	COMP: CRM
DRWG: RWL	CHKD: CRM
FILE WESTSTIDE: CITY LIMITS	
SHEET 4 OF 4	SHEET(S)

CITY LIMITS

801 CEDAR STREET

SECTION 5, TOWN 2N, RANGE 1W CITY OF MASON, INGHAM COUNTY, MICHIGAN



PROPOSED DEVELOPMENT:

A 4,500 BUILDING ADDITION TO FRONT AND ADDITIONAL PARKING IN NORTH EAST PORTION

PROPERTY DATA:

LAND AREA: 6.94 ACRES

TAX ID NUMBER: 33-19-10-05-153-006

ZONING:

CONTACTS:

PLANNING

ELECTRIC

WATER

SANITARY

STORM

TRANSPORTATION

ELIZABETH HUDE, DIRECTOR

2700 PORT LANSING RD

LANSING, MI 48906

CONSUMERS ENERGY

1955 W PARNALL RD

JACKSON MI 49201

CONSUMERS ENERGY

1955 W PARNALL RD

DONALD B. HECK, PE

DONALD B. HECK, PE

DONALD B. HECK, PE

312 NORTH STREET

(517) 676-9200

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(517) 676-9200

MASON, MICHIGAN 48854-1169

MASON, MICHIGAN 48854-1169

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312 NORTH STREET

(517) 676-9200

JACKSON MI 49201

(517) 788-1191

(517) 788-1191

(517) 335-3754

201 W. ASH ST

MASON, MI 48854

CITY OF MASON PLANNING DEPARTMENT

MDOT LANSING TRANSPORTATION CENTER

WOLVERINE ENGINEERS & SURVEYORS, INC.

WOLVERINE ENGINEERS & SURVEYORS, INC.

WOLVERINE ENGINEERS & SURVEYORS, INC.

EXISTING PARCEL ZONING: C2

MAXIMUM BUILDING HEIGHT = 45

- PROPOSED PARCEL ZONING: C2 BUILDING REQUIREMENTS: FRONT SETBACK = 50SIDE SETBACK = 10' SIDE SETBACK = 10'REAR SETBACK = 10'
- BUILDING SETBACKS PROVIDED FRONT SETBACK = 120'WEST SIDE SETBACK = 47' EAST SIDE SETBACK = 88' REAR SETBACK = 91'

MINIMUM LOT WIDTH = 100' PROVIDED LOT WIDTH = 326'

MAXIMUM PERCENT OF LOT COVERAGE BY ALL STRUCTURES = 50% EXISTING PERCENT OF LOT COVERAGE BY ALL STRUCTURES = 11.05% PROPOSED PERCENT OF LOT COVERAGE BY ALL STRUCTURES = 12.77%

LEGAL DESCRIPTION:

A PARCEL OF LAND BEING PART OF THE NORTHWEST 1/4 OF SECTION 5, TOWNSHIP 2 NORTH, RANGE 1 WEST, VEVAY TOWNSHIP, NOW CITY OF MASON, INGHAM COUNTY, MICHIGAN; BEING SURVEYED AND FURTHER DESCRIBED AS BEGINNING AT THE INTERSECTION OF THE EAST AND WEST 1/4 LINE, OF SECTION 5, T2N, R1W, AND THE EASTERLY RIGHT OF WAY LINE OF U.S. 127 AS FENCED AND OCCUPIED SAID POINT BEING NORTH 89°28'08' EAST PER STATE PLANE COORDINATES, NORTH AMERICAN T2N, R1W, VEVAY TOWNSHIP, INGHAM COUNTY, MICHIGAN; THENCE NORTH 89°28'08'' 37°07'14'' EAST) 376.30 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF M-36. CEDAR STREET ÁS DEFINED IN SURVEY RECORDED IN BOOK 9, PAGE 739; THENCE NORTH 54°04'07' WEST 321.56 FEET (RECORDED AS NORTH 53°27'42' WEST 320.98 FEET) TO THE SOUTHEASTERLY LINE OF PARCEL AS PREVIOUSLY SURVEYED AND RECORDED IN LIBER 4, PAGE 1267, INGHAM COUNTY RECORDS; THENCE ALONG SAID PARCEL THE FOLLOWING THREE COURSES: SOUTH 36°01'39" WEST 157.00 FEET (RECORDED AS SOUTH 36°32'18" WEST 150 FEET); THENCE NORTH 53°58'21" WEST 157.00 FEET (RECORDED AS NORTH 36°32'19' EAST 150 FEET); THENCE SOUTH FOR NORTHBOUND EXIT RAMP TO M-36, CEDAR STREET (RECORDED AS SOUTH 68°47'58'' WEST 234.9 FEET IN WARRANTY DEED LIBER 3094, PAGE 123 FOR THIS SUBJECT PARCEL); THENCE SOUTHERLY ALONG THE EAST LINE OF TRUNKLINE US-127 WAY DOCUMENT LIBER 892, PAGES 432 AND 433, INGHAM COUNTY RECORDS, THE FOLLOWING TWO COURSES: SOUTH 13°44'04'' WEST (RECORDED AS SOUTH 13°24'58'' WEST) 285.85 FEET; THENCE SOUTH 03°14'04''W 252.51 FEET (RECORDED AS SOUTH 5, TOGETHER WITH A PERPETUAL ACCESS EASEMENT AS DEFINED IN DEED LIBER 915, OF THE FOLLOWING DESCRIBED REAL ESTATE:

BEGINNING IN THE CENTERLINE OF NOW EXISTING CEDAR STREET (M-36) AT A POINT LOCATED AS FOLLOWS: BEGINNING AT THE NORTHWEST CORNER OF SECTION 5, T2N, R1W, CITY OF MASON, INGHAM COUNTY, MICHIGAN, THENCE EAST ON THE NORTH LINE OF SECTION 5, 621.5 FEET TO THE INTERSECTION OF CENTERLINE OF HOWELL ROAD AND KERNS STREET, THENCE SOUTH IN THE CENTERLINE OF KERNS STREET SOUTH 0° 23'42'' WEST: 2117.77 FEET TO THE CENTERLINE OF CEDAR STREET, THENCE NORTH 53° 27'42'' WEST 67.85 FEET FOR SAID POINT OF BEGINNING, THENCE SOUTH 36° 32'18" WEST 200.00 FEET, THENCE NORTH 53° 27'42'' WEST 200.0 FEET, THENCE NORTH 36° 32'18'' EAST 200.0 FEET TO THE CENTER OF CEDAR STREET. THENCE SOUTH 53° 27'42'' EAST 200.0 FEET TO BEGINNING.

DATUM OF 1983 (PREVIOUSLY RECORDED IN WARRANTY DEED LIBER 3094, PAGE 123 AS BEING SOUTH 89°25'40'' EAST) 67.91 FEET FROM THE WEST 1/4 CORNER, SECTION 5, EAST (RECORDED AS SOUTH 89°25'40'' EAST) 502.80 FEET ALONG THE EAST AND WEST 1/4 LINE OF SAID SECTION 5; THENCE NORTH 36°01'02'' EAST (RECORDED AS NORTH (RECORDED AS NORTH 53°27'42'' WEST) 200.00 FEET; THENCE NORTH 36°01'39'' EAST 68°43'50'' WEST 235.89 FEET ADJACENT TO THE FENCED AND OCCUPIED RIGHT OF WAY RIGHT OF WAY AS PREVIOUSLY DEFINED IN DETERMINATION OF NECESSITY OF RIGHT OF 02°54'58'' WEST 248.55 FEET) TO POINT OF BEGINNING ON NORTHWEST 1/4 OF SECTION PAGE 266 AND 267, BEING A 75 FOOT EASEMENT OVER THE SOUTHEASTERLY 75 FEET

LEGEND **SYMBOLS ABBREVIATIONS** A ABANDONED MANHOLE BC BACK OF CURB PR/EX COMBINED MANHOLE BITUMINOUS D PR/EX STORM MANHOLE/CATCHBASIN BUILDING ☐ PR/EX STORM CATCH BASIN (CURB) BULKHEAD ₩ PR/EX FLARED END SECTION BOTTOM OF BAN PR/EX STORM DOWNSPOUT CALCULATED S PR/EX SANITARY MANHOLE CENTERLINE CO PR/EX SANITARY CLEANOUT CATCH BASIN W PR/EX WATER MANHOLE CLEAN OUT ₩ PR/EX WATER VALVE COMBINED CONCRETE ♦ PR/EX WATER SPRINKLER ELECTRIC MW PR/EX MONITORING WELL ELEVATION PR/EX FIRE HYDRANT ENCROACHMEN⁻ R PR/EX UTILITY RISER EDGE OF METAL T PR/EX COMMUNICATIONS MANHOLE PR/EX GAS VALVE FACE OF CURB PR/EX GAS METER FINISH SURFACE (E) PR/EX ELECTRIC MANHOLE FLARED END SECTION PR/EX ELECTRIC POWER POLE FLOW LINE -> PR/EX ELECTRIC POWER POLE GUY WIRE FOUND CAPPED IRON ROD PR/EX ELECTRIC TRANSFORMER GAS LINE ☐ UTILITY HANDHOLE LINEAR FEET LANDSCAPE ←GO PR/EX POWER POLE WITH LIGHT FIXTURE MANHOLE A PR/EX FLOOD LIGHT MEASURED PR/EX DECIDUOUS TREE MONUMENT PR/EX CONIFEROUS TREE NUMBER STUMP ON CENTER ∞ ∞ PR/EX PARKING METER OFFSET PR/EX MAILBOX PROPERTY LINE AC PR/EX AC UNIT PROPOSED → PR/EX SIGN RECORDED ► PR/EX FLAG POLE POINT OF BEGINNING ■ PR/EX BENCH POINT ON LINE ** PR/EX BIKE RACK RIGHT-OF-WAY PR/EX PARKING SPACE COUNT SAN SANITARY

SQUARE FEET

TOP OF BANK

TOP OF CURB

TOP OF WALK

TYPICAL

WATER

TOP OF RETAINING WALL

STORM

STM

WTR

LINE TYPES

LINE ITE	<u>ES</u>
	PR/EX CURB AND GUTTER
xxx	PR/EX MAJOR CONTOUR
xxx	PR/EX MINOR CONTOUR
<u>x'' sm</u>	PR/EX STORM SEWER
	PR/EX SANITARY SEWER
UG ELEC UG ELEC	PR/EX UNDERGROUND ELECTRIC LII
OH_ELEC OH_ELEC	PR/EX OVERHEAD ELECTRIC LINE
X''_GAS	PR/EX GAS LINE
	PR/EX WATER LINE
	PR/EX COMMUNICATION LINE
X''_STE	PR/EX STEAM LINE
	PR/EX TREE LINE
xxxxxxx	PR/EX FENCE
	RIGHT-OF-WAY
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	HISTORICAL PROPERTY LINE
	EASEMENT
	SETBACK
	SECTION LINE
	SILT FENCE
	DISTURBANCE LIMITS
without two the without the rest in th	RUNOFF AREA
	SOIL TYPE CONTOURS (NRCS)
********	CURB REMOVAL
	BITUMINOUS PAVEMENT REMOVAL
	CONCRETE REMOVAL
	CONCRETE HATCHING
	BITUMINOUS PAVEMENT HATCHING
	STONE LANDSCAPE HATCHING
200000000000000000000000000000000000000	MULCHED LANDSCAPE HATCHING

SHEET INDEX

1 CIVIL - COVER 2 CIVIL - OVERALL SITE PLAN 3 CIVIL - DEMOLITION 4 CIVIL - LAYOUT

5 CIVIL - GRADING & UTILITIES 6 CIVIL - DETAILS

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH ACT 240, PA OF 1937 AS AMENDED.

O PR/EX CONC BALLARD

TRAFFIC LIGHT

SECTION CORNER

SOIL XXX SOIL CLASSIFICATION (NCRS)

SURFACE DRAINAGE PATH DIRECTION

(SOIL BORING

⊕ BENCHMARK

ITEM TO BE REMOVED

FOUND MONUMENTATION

O SET CAPPED IRON ROD #



	3/29/2019	
Kurt R. Krahulik LICENSE NO. 046794	DATE	
DC ENGINEERING 1210 N. CEDAR ST, SUITE B LANSING, MI 48906 (517) 853-7866		

OWNER	LEISURE TYME LLC 801 N CEDAR MASON, MI 48854
ARCHITECT	PAUL D. BARBOUR AND ASSOCIATES 9617 COLUMBIA HWY. EATON RAPIDS, MI 48827 (517) 663-0088
ENGINEER	DC ENGINEERING PC 1210 NORTH CEDAR ST, SUITE B LANSING, MICHIGAN 48906 (517) 852–7866
CONTRACTOR	WESTSIDE BUILDING COMPANY 3310 BARDAVILLE DRIVE, SUITE 3 LANSING, MI 48906 (517) 749-3898

REVISIONS 2019-03-05 CITY COMMENTS 2019-03-29 REVISED BOUNDARY



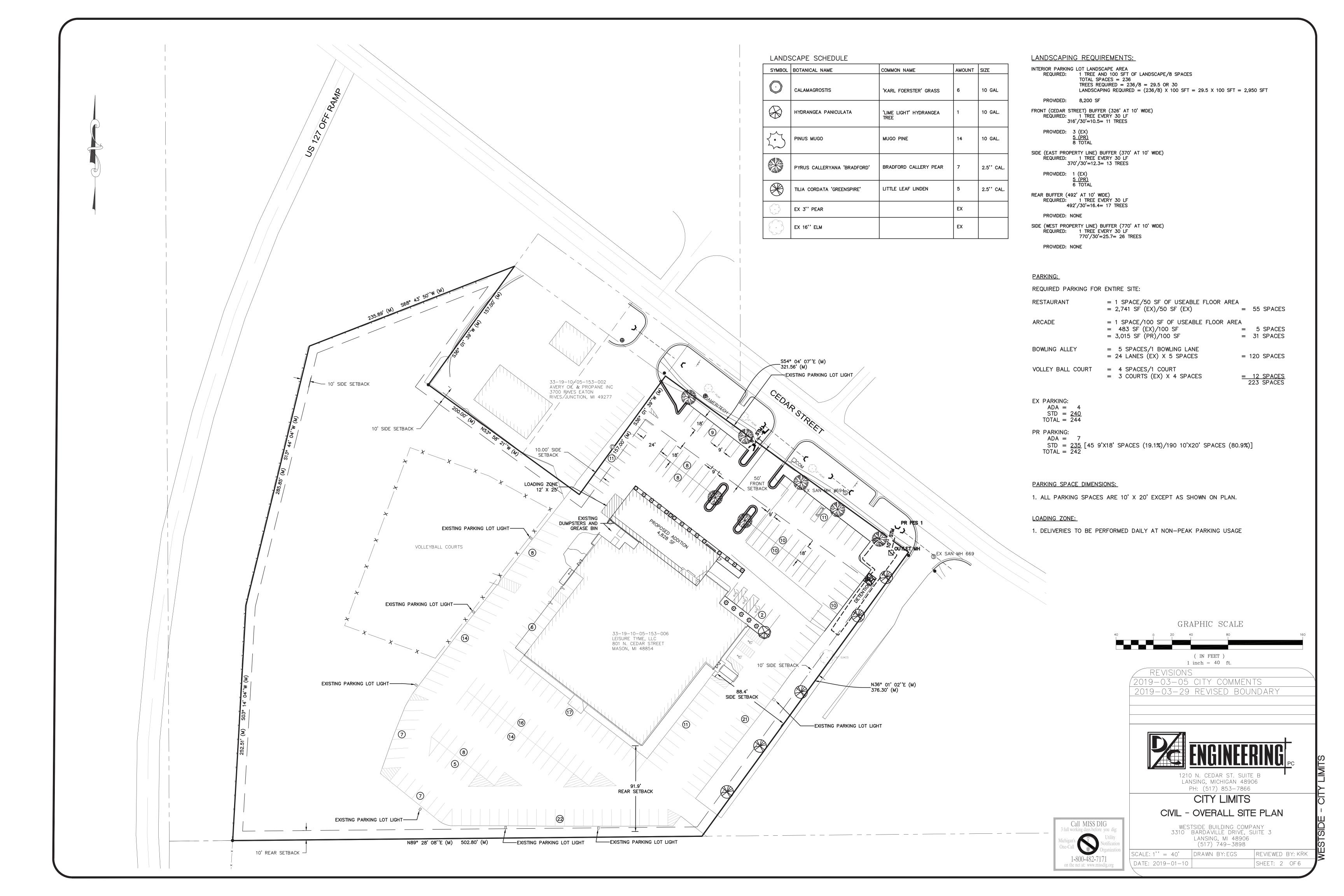
LANSING, MICHIGAN 48906 PH: (517) 853-7866

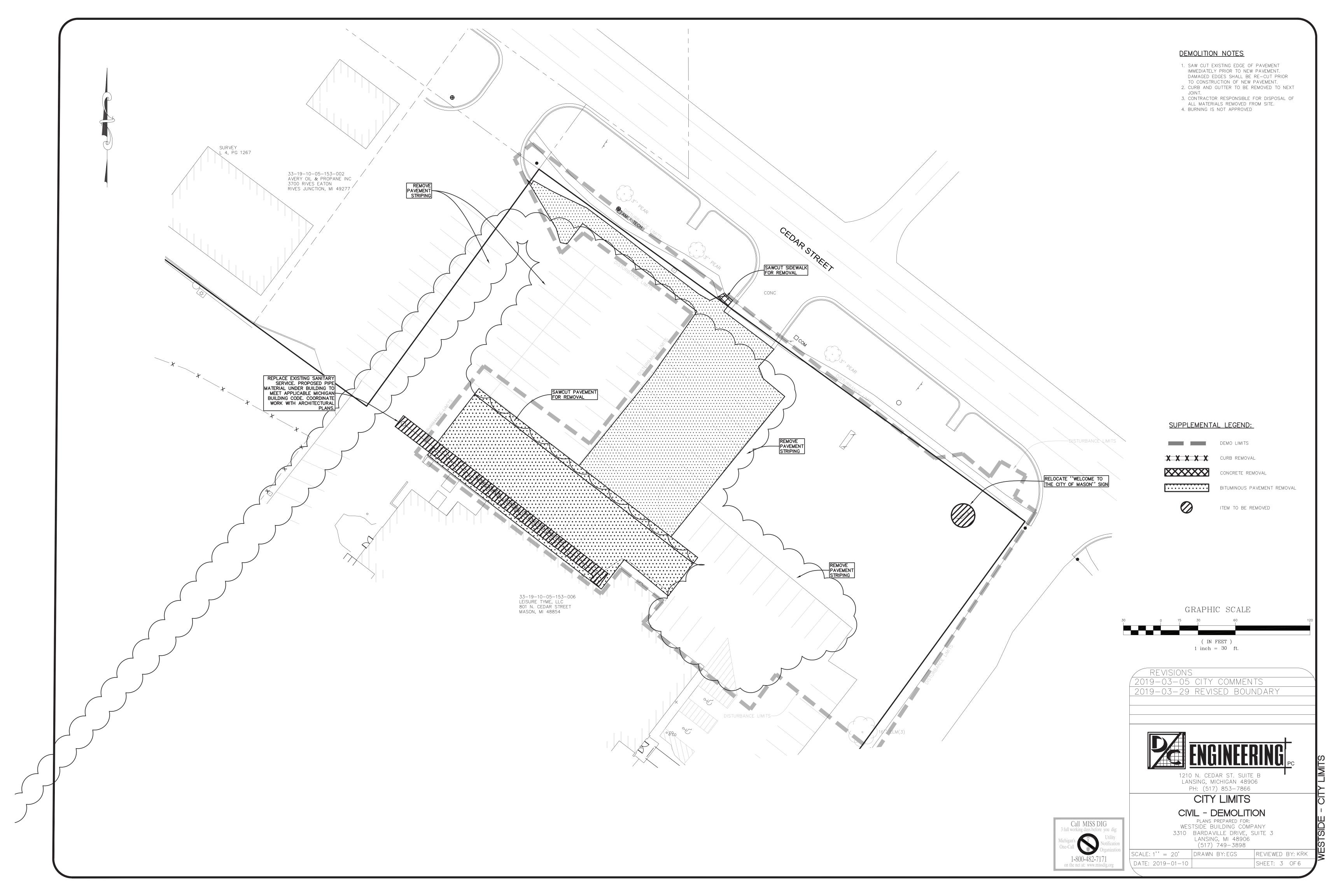
CITY LIMITS CIVIL - COVER PLANS PREPARED FOR:

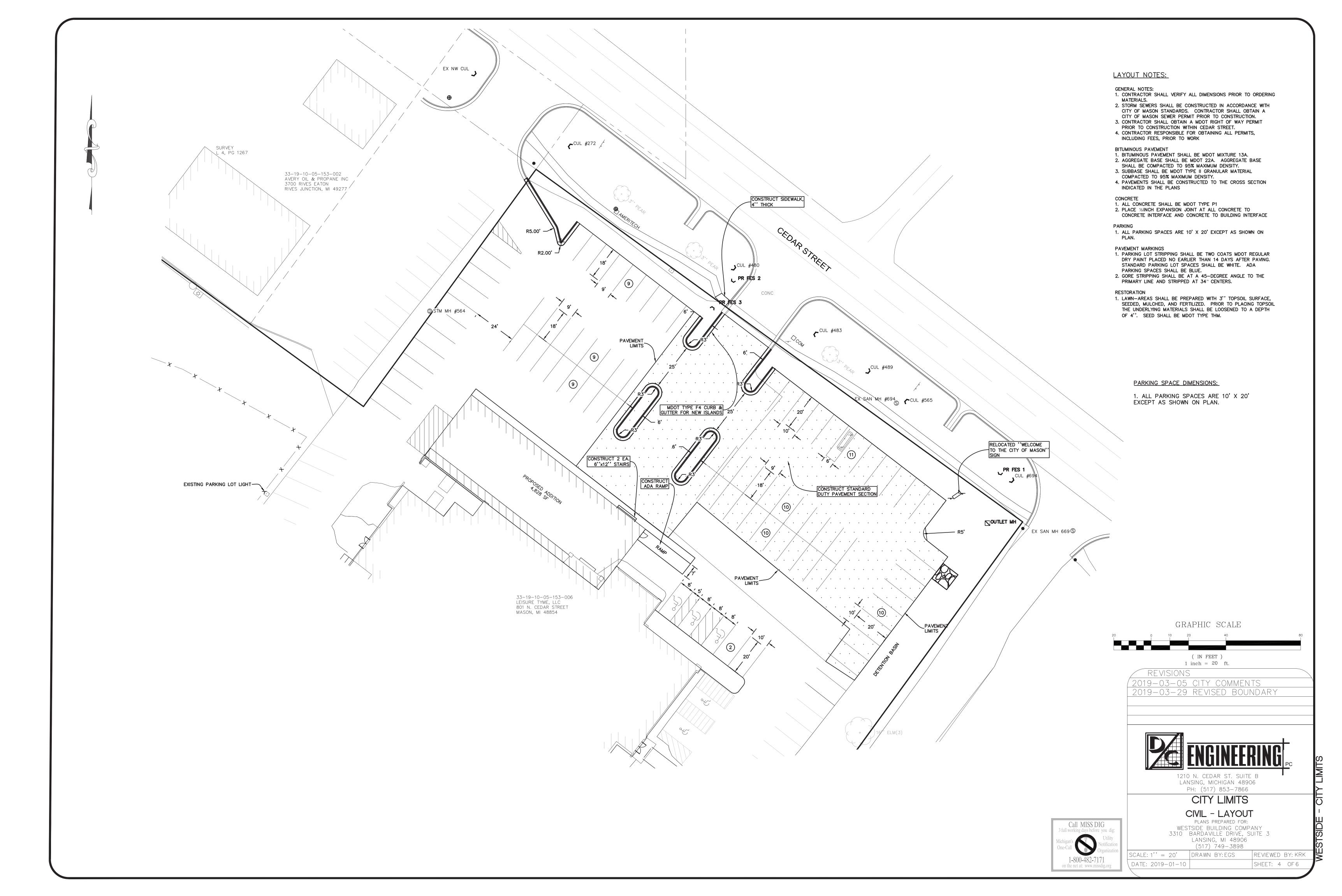
WESTSIDE BUILDING COMPANY 3310 BARDAVILLE DRIVE, SUITE 3 LANSING, MI 48906 (517) 749-3898

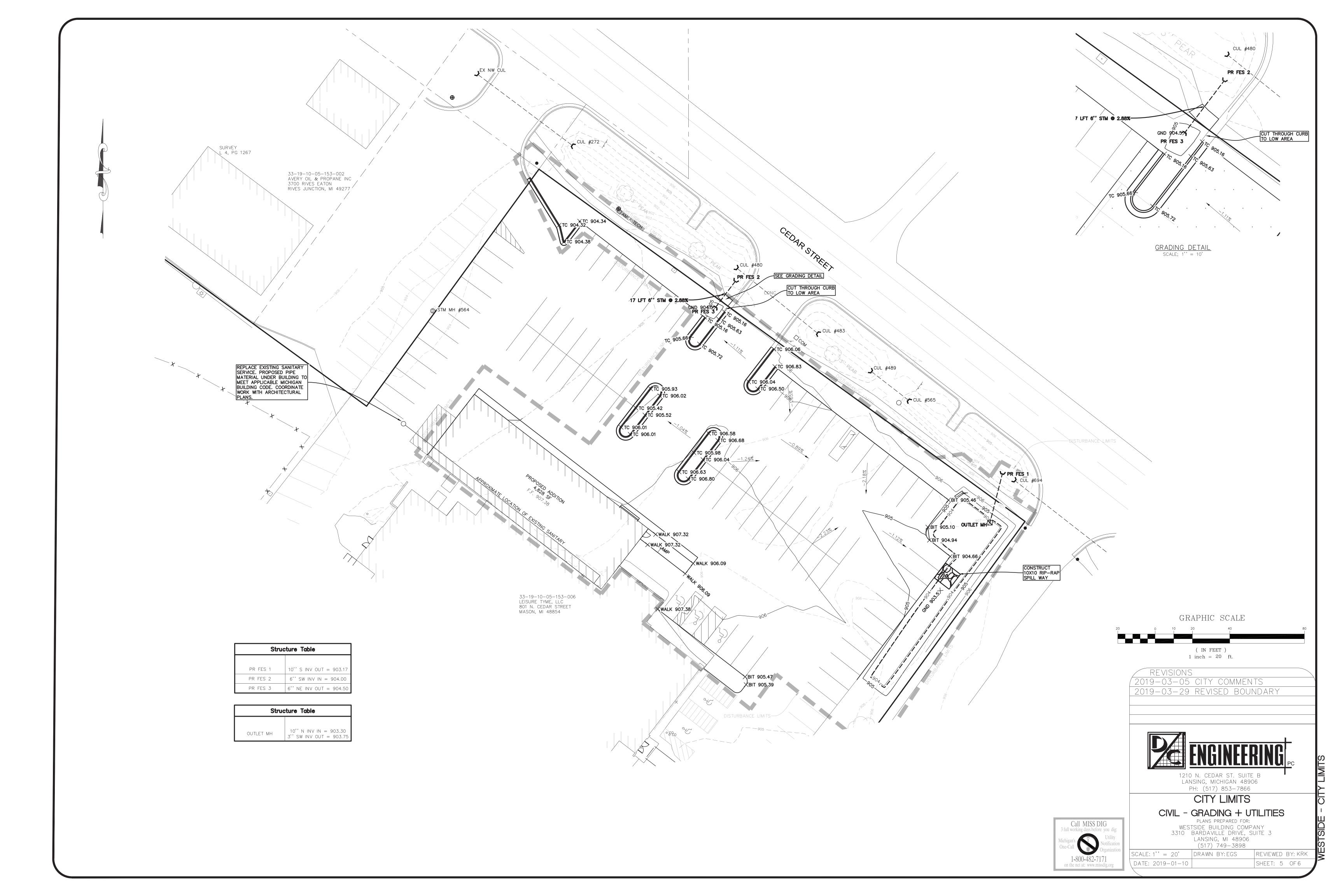
Call MISS DIG 1-800-482-7171 the net at: www.miss

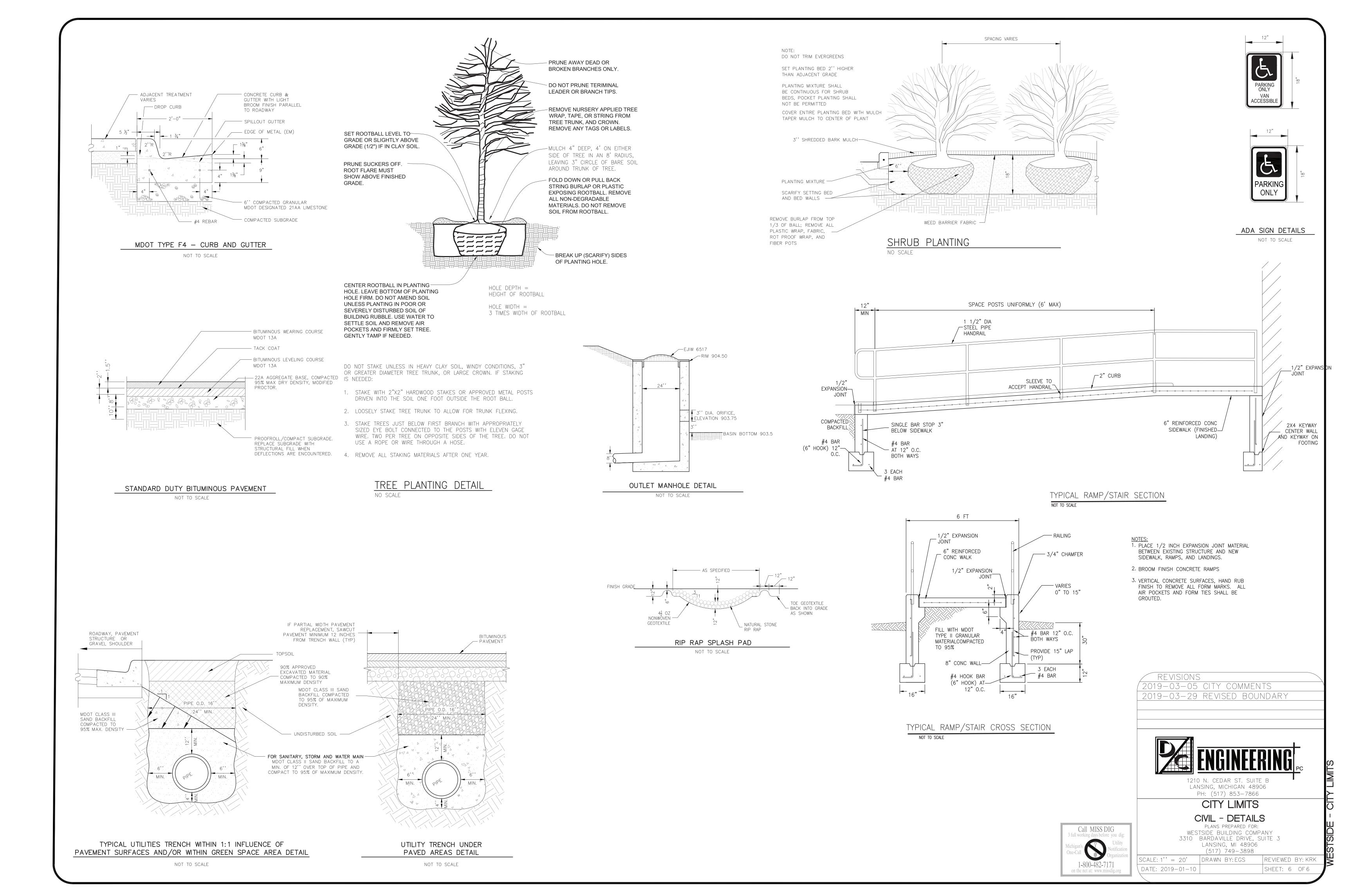
SCALE: NONE DRAWN BY: EGS REVIEWED BY: KRK DATE: 2019-01-10 SHEET: 1 OF 6











Westside Building Company City Limits Development Mason, Michigan Stormwater Management Report

KWRIT R.

KRAHULIKU

ENZINEBR

OA6794

ROFESSIONA

Prepared by:

DC Engineering January 2019

Introduction

The City Limits development is proposing to construction a building addition. This addition will remove existing parking spaced. To offset the loss of these spaces, additional parking lot will be constructed in the northeast corner of the parcel. The development site fronts Cedar Street (M36) and abuts the MDOT US127 Off Ramp on the north and eastern sides of the property. The existing site drains southwesterly by overland flow through the parking lot to an existing culvert at the southwest corner of the parking lot. This culvert conveys the runoff into the MDOT roadside ditch along the US127 Off Ramp. The front northeast corner of the site is currently vacant (lawn). Runoff from this area flows by overland flow in all directions. Flow is either conveyed onto the existing pavement which flows to the culvert at the southwest corner of the parking lot or flows directly into the roadside ditch along Cedar Street.

The proposed work consist of reduction of impervious area in the existing parking lot through construction of landscape islands, landscape beds, and removal of parking area along Cedar Street. Additional parking lot will be constructed in the currently vacant northeast corner of the site. The existing parking lot will continue to drain by overland flow to the culvert at the southwest corner of the parking lot. The new parking area will drain to a detention system on the south side of the new parking area. This basin will discharge flows into the roadside ditch along Cedar Street.

Stormwater Runoff Calculations

Stormwater runoff controls for the proposed additional impervious area need to be controlled to meeting the State of Michigan MS4 Phase II stormwater requirements and MDOT runoff requirements. The stormwater runoff was modeled utilizing the City of Lansing "Site Development Stormwater Tool". This spreadsheet compute the pre- and post-development runoff, including flow controls, utilizing the NRCS Curve Number approach. The spreadsheet computes a runoff hydrograph and routes the hydrograph through the flow control devices to compute the discharge rate and volume to meet the State of Michigan MS4 Phase II stormwater controls.

Two runoff models were performed to analyze the runoff from the site. First, the existing parking lot in the front of the existing building was modeled to determine the reduction in flow realized by the reduction in impervious area. This reduction in runoff is used to offset some of the runoff from the proposed parking lot addition.

The second runoff model analyzes the runoff from the proposed parking lot area. The model also analyzes the discharge controls from the basin.

Figure 1 provides a location map of the development site.

Figure 2 provides the existing conditions map.

Figure 3 provides the proposed conditions map.

Model 1 provides the computation of runoff reduction in the existing parking lot.

Model 2 provides the computation of runoff detention and discharge controls in the proposed detention basin.

Figure 4 provides the NRCS Websoil survey to determine the estimate infiltration capacity of the soils in the detention basin.

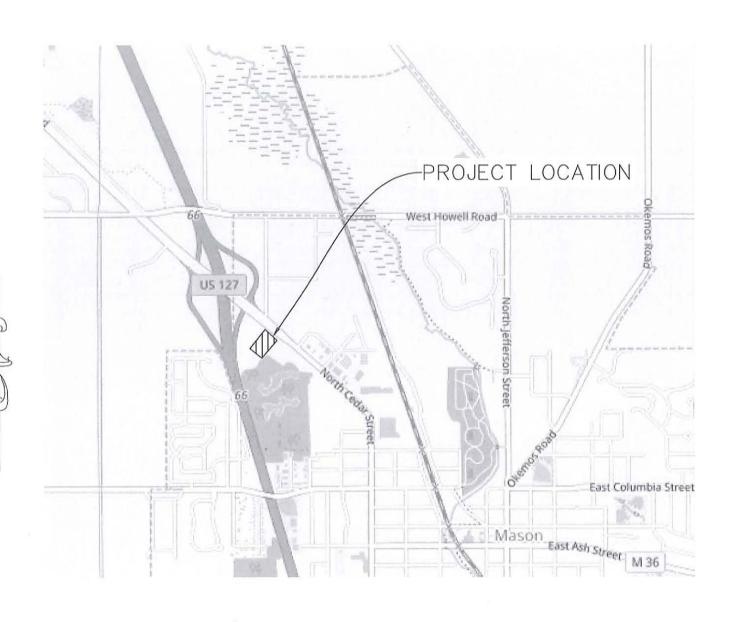
Figure 5 provides the NOAA Altas 14 rainfall amounts utilized in the runoff models.

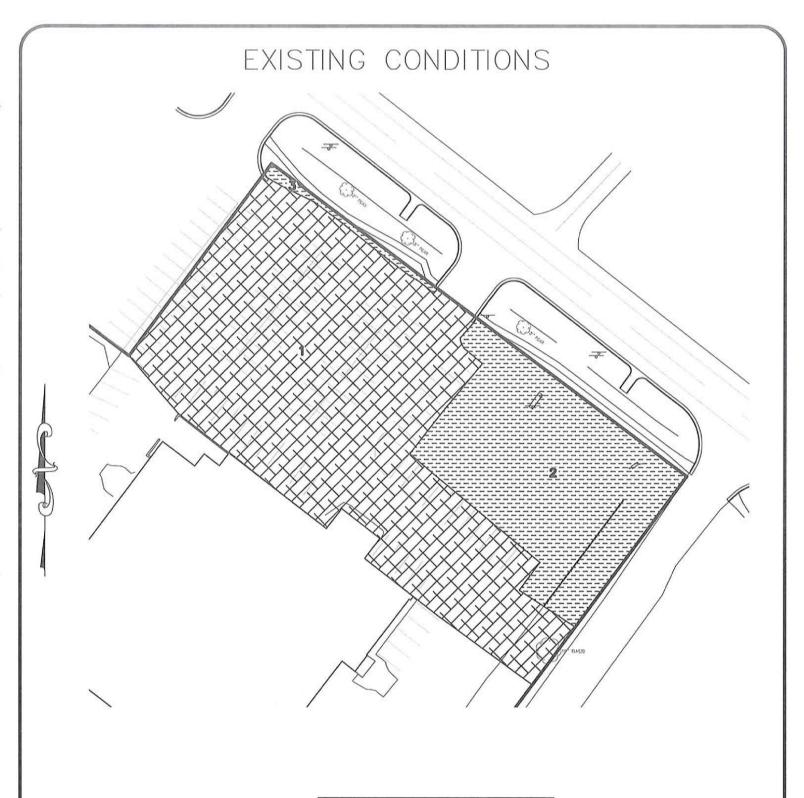
Figure 6 provides the stage-storage curve of the proposed detention basin.

Figure 7 provides computation of the discharge velocity to the Cedar Street roadside ditch.

Figure 8 provides the MDOT Form 2484 "Drainage Design Checklist" which summarizes the runoff characteristics of the discharge to the MDOT road ditch facility.

LOCATION MAP



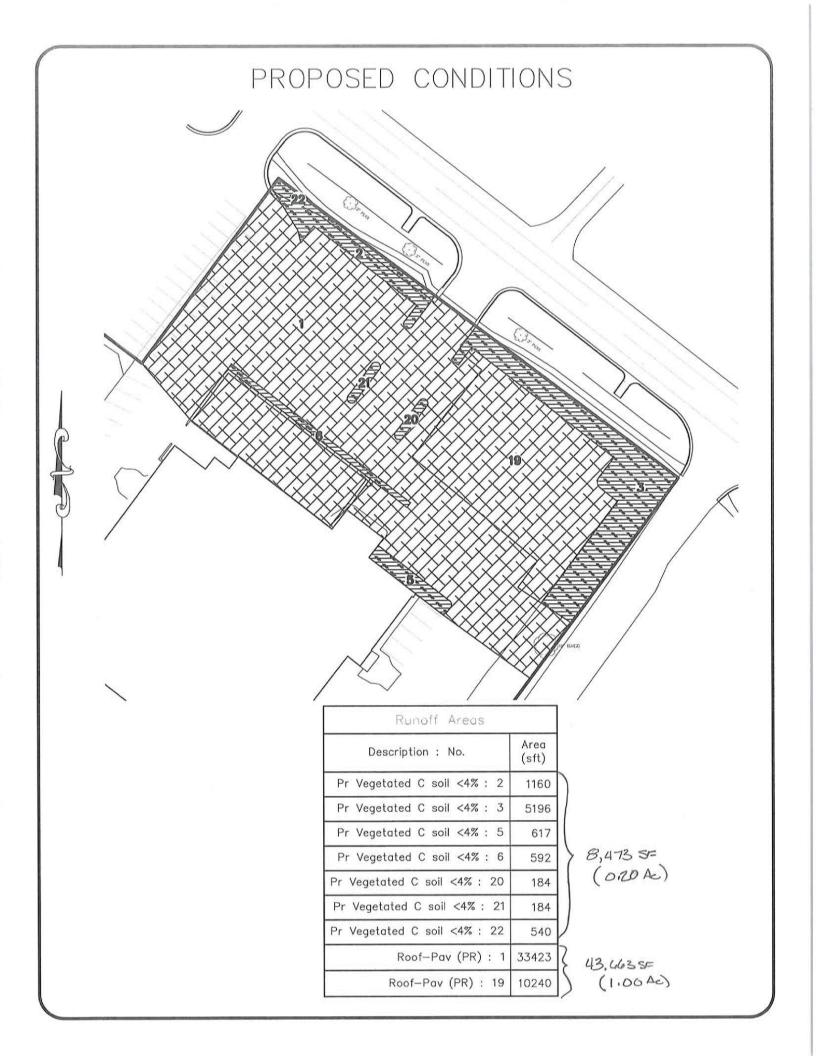


GR	APHIC S	SCALE	
30 	60 		120
			100-100
	(IN FE	ET)	

Runoff Areas	
Description : No.	Area (sft)
Ex Vegetated C soil <4%: 2	15423
Ex Vegetated 🕻 soil <4% : 3	549
Roof-Pav (EX) : 1	36159

(0.83 Ac)

Z=1.20 Ac



MODELI

SITE DEVELOPMENT STORMWATER TOOL (SDST)

RONCEFF CALCULATIONS FOR REDUCTION OF RONCEFF RATE AND VOLUME IN

SITE

Name

City Limits

Parcel Identification

33-19-10-05-53-006

Location Address

801 North Cedar Street, Mason, MI 48854

EXISTING PARKING LOT.

Nearest Major Intersection

Cedar Street and Kerns Road

OWNER

Contact

Organization

City Limits

Address

801 North Cedar Street, Mason, MI 48854

Phone

Email

CALCULATIONS PERFORMED BY

Contact

Kurt R. Krahulik, P.e.

Organization

DC Engineering, P.C.

Address

1210 N Cedar Street, Suite B, Lansing, Mi 48906

Phone

(517) 853-7861

Email

kkrahulik@DCEngPC.com

Date QC By: QC Date:

PROJECT DESCRIPTION

This model is run to analyze the impacts of reducing the impervious area to the existing parking lot. The resulting reduction in flow rates and runoff volumes will be used to offset the runoff rates and volumes for the additional parking lot construction.

COMMENTS, QUESTIONS, OR CONCERNS

FOR CITY USE ONLY

Site Plan Review

Reviewed by

Approved by Date

Comments:

PURPOSE

The purpose of this spreadsheet model is to assist the design professional with sizing stormwater control measures for a given site development project. The spreadsheet model generates flow conditions based on the NRCS Curve Number approach using curvilinear unit hydrographs and a Type II rainfall distribution. Flow is passed through the stormwater control meaures using a simple reservoir routing technique. The intent of the spreadsheet model is to help simplify the calculation steps but is by no means a substitue for professional engineering judgement.

STEPS

1	Site Area and Soil Type	Input site total area and the native soil type. A manual entry for the infiltration rate can be input. Backup information supporting the infiltration rate should be provided when manually adjusting the default values.
2	Condition Prior to Development	Use the drop down boxes to select the cover type for the site and enter the surface area for each cover type. Up to five (5) separate cover types may be selected. The composite CN for the site is automatically calculated. Manual entry of the CN is allowed as an alternative. Time of concentration is also entered. Total site area must equal the area entered in Step 1.
3	Post Development Condition	Use the drop down boxes to select the cover type for the site and enter the surface area for each cover type. Up to five (5) separate cover types may be selected. The composite CN for the site is automatically calculated. Manual entry of the CN is allowed as an alternative. Time of concentration is also entered. Total site area must equal the area entered in Step 1.
4		

4

5	Job Control Stormwater Control Measures	Job control information that doesn't normally change. Do nothing in this section Enter SCMs here. First enter the cross-sectional information, next enter the outlet control mechanism. Cross-section
1 - 27		information is entered from the bottom up. Evaporation and infiltration may be toggled on and off for each control measure independently. It is suggested to work first on the smallest storm and meet the criterion. Then work sequentially on the larger events meeting the incremental criteria for each event.
7	Individual Results	This section shows the detailed results for each SCM.
8	Global Results	This section shows the global results and whether design criteria have been met.

CELL FORMATTING

Step number headings
Labels
Input Cells
Calculated Cells
Linked Cells (similar to calculated cells)
Input Cells, but these are standardized variables and normally should not be changed

NOMENCLATURE

CN	Curve Number	
Coefficient C	Orifice coefficient (typical value is 0.6) or the Weir coefficient (typical value 3.0) depending on selected outlet type	
CPD	Condition Prior to Development	
Dev	Development	
ET	Evapotranspiration	
Infil	Infiltration	
Len	Length	
NA	Not Applicable	
Outflow	Sum of Outlet flow and Overflow (Step 7)	
Outlet	Discharge through the orifice or weir (Step 7)	
Overflow	Discharge overflowing the SCM (Step 7)	
PRF	Peak Rate Factor (a shape factor associated with the curviliear unit hyrograph)	
Qpeak	Peak Flow	
S. Area	Surface Area	
SCM	Stormwater Control Measure	
Vol	Volume	

MODELING CAVEATS

1 The design professional is responsible for proper placement of the stormwater control measure on the site to achieve the necessary overall site drainage control.

2

3

REFERENCES

- 1 USDA NRCS NEH Part 630 Hydrology: Chp 7 Hydrologic Soil Groups, Chp 8 Land Uses and Treatment Classes, Chp 9 Hydrologic Soil-Cover Complexes, Chp 10 Estimation of Direct Runoff from Storm Rainfall, Chp 15 Time of Concentration, and Chp 16 Hydrographs
- 2 Spreadsheet model developed by Dan Christian, Tetra Tech. (517) 394-8615. Dan.Christian@tetratech.com

SITE CHARACTERISTICS 0.83 acres SITE AREA STEP SOIL TYPE HSG Auto Manual C Sandy clay loam 0.17 0.38 NRCS Velocity Method for Time of Concentration EE NRCS WEBSON SUNDY 2-year 24-hour Rainfall (in) 2.42 Please provide backup information to support manual entry of infiltration rate FIGURE 4 CONDITION PRIOR TO DEVELOPMENT Surface Cover No. Cover Area (ac) CN 1 Urban | Open Space (lawns, parks, golf, cemeteries) | Poor (grass cover <50%) 81 0.01 2 Urban | Paved Parking, Roofs, Driveways (excl. ROW) | 100% impervious 0.82 98 NA 4 Not Used NA NA 5 Not Used 6 Manual Entry Total 0.83 Time of Concentration No. Surface Feature Slope (ft/ft) Manning n Length (ft) Tt (hr) 1 Sheet Flow - Dense grasses 0.24 2 Shallow Conc. - Pavement and small upland gullies 0.02 0.025 0.02 3 Not Used NA 0.00 4 Not Used NA 5 Not Used NA 0.00 6 Manual Entry CPD Tc (hr) 0.10 POST DEVELOPMENT CONDITIONS Surface Cover CN Area (ac) Urban | Paved Parking, Roofs, Driveways (excl. ROW) | 100% impervious 98 2 Urban | Open Space (lawns, parks, golf, cemeteries) | Good (grass cover >50%) 64 NA 3 Not Used 4 Not Used NA 5 Not Used NA 6 Manual Entry 0.83 Total **Time of Concentration** No. Surface Feature Slope (ft/ft) Manning n Length (ft) Tt (hr) Sheet Flow - Smooth Surface 0.02 0.011 2 Shallow Conc. - Pavement and small upland gullies 0.02 0.025

NA

NA

NA

3 Not Used

4 Not Used

5 Not Used

6 Manual Entry

0.00

0.00

0.00

0.10

Post Tc (hr)

JOB CONTROL

CLIMATOLOGY DATA

Water Quality Channel Collection Roadway Protection Pipe) System Flood System Treatment Volume 0.9 10-year 100-year Recurrence Interval 2-year 24-hr 24-hr Duration (hr) 24-hr 24-hr 3.35 0.90 2.41 5.36 Precipitation (in)

Evapotranspiration (in/day) Hyetograph Distribution 0.1 RAINFAU PER ATUSIY Type II SEE FICKE 5

DESIGN CRITERIA

STEP 5

Recurrence Interval	90%	2-year	10-year	100-year
Treatment of Runoff for Sediment Load	Yes	NA	NA	NA
Peak flow (% of CPD)	NA	100%	100%	100%
Volume (% of CPD)	NA	100%	NA	NA
Dewater Time (hr), surface water [time from end of rainfall]	NA	24	24	48
Dewater Time (hr), complete drainage [time from end of rainfall]	NA	48	72	72

CONDITION PRIOR TO DEVELOPMENT

Peak Rate Factor (PRF)	484			
Ratio of Initial Abstraction to Potential Maximum Retention [λ=la/S]	0.05			
Recurrence Interval	90%	2-year	10-year	100-year
Precipitation (in) [P]	0.90	2.41	3.35	5.36
Actual retention after runoff begins (in) [F]	0.19	0.22	0.23	0.23
Precipitation Excess (aka runoff) (in) [Q]	0.71	2.19	3.12	5.13
Precipitation Excess (aka runoff) (cf) [Q]	2,141	6,599	9,410	15,442
Precipitation Excess as a fraction of the total rainfall (%)	79%	91%	93%	96%

POST DEVELOPMENT CONDITIONS (No SCMs)

Peak Rate Factor (PRF)	484			
Ratio of Initial Abstraction to Potential Maximum Retention [λ=la/S]	0.05			
Recurrence Interval	90%	2-year	10-year	100-year
Precipitation (in) [P]	0.90	2.41	3.35	5.36
Actual retention after runoff begins (in) [F]	0.25	0.38	0.43	0.51
Precipitation Excess (aka runoff) (in) [Q]	0.65	2.03	2.92	4.85
Precipitation Excess (aka runoff) (cf) [Q]	1,946	6,108	8,783	14,603
Precipitation Excess as a fraction of the total rainfall (%)	72%	84%	87%	90%

STORMWATER CONTROL MEASURES							STEP 6						
Practice Type None		User Inn	ut Notes a	and Cor	nments		-	-		-			-
Drainage Area (ac) 038 Discharge To SGM 2		oder inp	ar riolos c	ind out	The state of the s								
Sediment Strategy 2. Retaining and infiltration X-sec Entry Auto Galo Reclangular Shope. User Deline	d Ealtyn	and Sid	; Slooms										
Cross Section	Layer	Side	Width	Len	Surface	Total	User Inpu	ıt	Porosity	Field	Void	UserDef	Water
Media Top	(in)	Slope xH:1V	(ft)	(ft)	Area (sf)	Vol (cf)	SA (sf)	Vol (cf)		Capacity	Ratio	Void Override	Sto Vo (cf)
NA NA		AL II. I V	21.0	100.0	77 (1975)	(01)		77414	MA	NA	100%	Override	(00)
NA			210	100.0	A Charles Control	-			NA NA	IVA	100%		
EIA			21.0	100.0				-	NA	Ne	106%		
NA			21.0	100.0	-	- 0			NA	-	100%		
Bottom Aggregate Reservoir (40%)	24	0	21.0	100.0	2,100	4,200			MA	NA	40%		1,88
Total	24					4,200		0					1,68
Surface Storage Depth (in)	0								Allowed	Area (sf)			
Media Storage Depth (in) Media (limiting) Infiltration Rate (in/hr)	130				Ir	ifiltration	Evar n (through	ooration bottom)		2100			
Outlet Type	Opne	Mone	None	Minna	Mone								
Offset from bottom (in)													
coefficient c													
Area (sf) or Length (ft)													
Volume below the offset (cf)		NA	TYA	MA	MA								

CM 2 Practice Type	None		Heer Inni	ut Notes a	and Con	monte			SIDE	-	WITTEN TO			-
rainage Area (ac)			User inpi	ut notes a	and Con	mems								
Discharge To														
ediment Strategy		1.00	(P)	F11										
X-sec Entry	Auto Calo Reclangular Shape: User Deline	a Relian	and Side	a Slopes			12						4	
		Layer	Side	Width	Len	Surface	Total	User Inpi	ut	Porosity	Field	Void	UserDef	Wate
Cross Section	Media	(in)	Slope	(ft)	(ft)	Area (sf)	Vol	SA (sf)	Vol (cf)		Capacity	Ratio	Void	Sto V
			xH:1V	0.0	0.0	12	(cf)	0.	CLOUIS CENT		ACCUPATION COMME	standard control	Override	(cf)
	NA.		(1	6.0	0.0	6	()	(0)		NA	NA -	100%		
	NA .		0	0.0	0.0	0	0	-0		NA	MA	100%		
1	MA		0	0.0	0.0	0	0	()		NA	NA	100%		
9994440000	NA		0	QB	0.0	0	- 0	0		NA	NA.	100%		
Bottom						10)	()	0	0	MA	NA	100%		
	Total	0					0		0			Total		
	Surface Starage Booth (in)	0.00	1							Allowed	Area (sf)			
	Surface Storage Depth (in) Media Storage Depth (in)	0.000						Eva	poration		Alea (al)			
	Media (limiting) Infiltration Rate (in/hr)	10				In	filtration	through)			0			
	Media (iliniting) inilitiation reate (ilinity)	18	1				muado	, (unougn	bottomy					
	Outlet Type	None	Mone	None	None	None								
	Offset from bottom (in)	and the second second				The state of the s								
	coefficient c													
	Area (sf) or Length (ft)													

				STEP 6	con't									
SCM 3	USA:	110												
Practice Type			User Inp	ut Notes a	and Con	nments								
Drainage Area (ac)														
Discharge To	Offsite			the state of	UTTAT		400							-
Cadimont Otratagu	Corpora Street and							400					LOW TO	1000
Sediment Strategy	Auto Galo Restangular Shapa, Usar Define	I Boltetti	and Side	e Slaces										
A-SGC LITTY	THAT WERE INSCREEN STREET SOME SHIPLE	- 5710111411	0112 519	* 4204701040										
		Layer	Side	Width	Len	Surface	Total	User Inp	ut	Porosity	Field	Void	UserDef	Water
Cross Section	Media	(in)	Slope	(ft)	(ft)	Area (sf)	Vol	SA (sf)	Vol (cf)		Capacity	Ratio	Void	Sto Vo
Тор	STANDED STANDARD OF THE STANDA	P-h	xH:1V	0.0	0,0	0	(cf)	- 10					Override	(cf)
	MAC		0	0.0	0.0	C)		0		(H.C.	NA	100%		
	NA		0	0.0	10:10	. 0	0	0		NA	MA	100%		
	NA X		0	0.0	9.0	0	0	0	9	MA	NA.	10030		
	MA		0	0.0	0:0	. 01	- 0	0	1)	MA	NA	100%		
Bottom		100	0	0.0	0:0	.01	1	(1)		N/A)	NA	100%		
	Total	0				1	- 0	4	0	l.		Total		
	Surface Storage Depth (in)	0.00								Allowed	Area (sf)			
	Media Storage Depth (in)	7						Eva	poration		Alea (al)			
	Media (limiting) Infiltration Rate (in/hr)	30				Ir	filtration	n (through			0			
	wedia (iiriitiig) iiriittattori (tate (iiriii)	100												
	Outlet Type	None	- Nime	- None	None	None								
	Offset from bottom (in)	-												
	coefficient c													
	Area (sf) or Length (ft)													
	Volume below the offset (cf)	NO.	NA.	MA	NA	NA.								
Practice Type Drainage Area (ac)			User Inp	ut Notes	and Cor	nments		10/13	M	FRE				
Discharge To														
2 16 1920 10		-												
Sediment Strategy	Select Strategy Auto Calc Rectangular Shape: User Define	d Datron	First Ison	a Winsar										
A-sec Entry	Auto one Repartiner shape 1936 issuite	G DAMON	Paria Dig	G 010178/8	6-10			_						
		Layer	Side	Width	Len	Surface	Total	User Inp	out	Porosity	Field	Void	UserDef	Water
Cross Section	Media	(in)	Slope	(ft)	(ft)	Area (sf)	Vol	SA (sf)	Vol (cf)		Capacity	Ratio	Void	Sto Vo
Тор			xH:1V	0:0	0.0	A STATE OF THE PARTY OF THE PAR	(cf)	0	200000000000000000000000000000000000000		2000		Override	(cf)
	NA		0	0.0	0.0			0		NA.	NA	100%		(
	NA		0	0.0	0.0		(NA	NA	100%		. (
	NA		U	0.0	0.0	0				01,0,	MA	100%		1
120-03101	NA		0	0.0	0.0	(1)		-		NA	NA	100%		
Bottom		-	()	0.0	0.0	1 0				NA	MA	100%		
	Total	0								11		Tota		
	Surface Storage Depth (in)	0.00	Í							Allower	l Area (sf)			
	Media Storage Depth (in)	0.00						Eva	poration		Aica (Si)	1		
	Media (limiting) Infiltration Rate (in/hr)	10				li li	ofiltratio	n (through			0			
	mode (mining) minitation reac (minit)	4.0	ı					(ougi				0		
	Outlet Type	None	None	None	Norte	None								
	Offset from bottom (in)													
	coefficient c													
	Area (sf) or Length (ft)													
	Volume below the offset (cf)		MA	HA	11/2	NA								

INDIVIDU	JAL SCM RESU	LTS		STEP 7	
SCM 1		90%	2-year	10-year	100-year
Qpeak	Inflow (cfs)	0.0	0.0	0.0	0.0
CATION CARDS	Outlet (cfs)	0.0	0.0	0.0	0.0
	Overflow (cfs)	0.0	0.0	0.0	0.0
	Outflow (cfs)	0.0	0.0	0.0	0.0
Depth	Max (in)	0.0	0.0	0.0	0.0
	Remaining (in)	NA	NA	NA	NA
Volume	Inflow (cf)	0	0	0	0
	ET (cf)	0	0	0	0
	Infil (cf)	0	0	0	0
	Outlet (cf)	0	0	0	0
	Overflow (cf)	0	0	0	0
	Outflow (cf)	0	0	0	0
	Remaining (cf)	0	0	0	0
	Continuity	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Continuity	NA	NA	NA	NA
Dewater	Surface (hr)	NA	NA	NA	NA
	Complete (hr)	NA	NA	NA	NA

Sediment Cinena Met: 14	Sediment	Criteria	Met?	N/
-------------------------	----------	----------	------	----

SCM 2		90%	2-year	10-year	100-year
Qpeak	Inflow (cfs)	0.0	0.0	0.0	0.0
50000000000000000000000000000000000000	Outlet (cfs)	0.0	0.0	0.0	0.0
	Overflow (cfs)	0.0	0.0	0.0	0.0
	Outflow (cfs)	0.0	0.0	0.0	0.0
Depth	Max (in)	0.0	0.0	0.0	0.0
080984000	Remaining (in)	NA	NA	NA	NA
Volume	Inflow (cf)	0	0	0	0
	ET (cf)	0	0	0	0
	Infil (cf)	0	0	0	0
	Outlet (cf)	0	0	0	0
	Overflow (cf)	0	0	0	0
	Outflow (cf)	0	0	0	0
	Remaining (cf)	0	0	0	0
	Continuity	NA	NA	NA	NA
Dewater	Surface (hr)	NA	NA	NA	NA
	Complete (hr)	NA	NA	NA	NA

Sediment Criteria Met? NA

	S	TEP 7 co	on't		
SCM 3		90%	2-year	10-year	100-year
Qpeak	Inflow (cfs)	0.0	0.0	0.0	0.0
	Outlet (cfs)	0.0	0.0	0.0	0.0
	Overflow (cfs)	0.0	0.0	0.0	0.0
	Outflow (cfs)	0.0	0.0	0.0	0.0
Depth	Max (in)	0.0	0.0	0.0	0.0
	Remaining (in)	NA	NA	NA	NA
Volume	Inflow (cf)	0	0	0	0
	ET (cf)	0	0	0	0
	Infil (cf)	0	0	0	0
	Outlet (cf)	0	0	0	0
	Overflow (cf)	0	0	0	0
	Outflow (cf)	0	0	0	0
	Remaining (cf)	0	0	0	C
	Continuity	NA	NA	NA	NA
Dewater	Surface (hr)	NA	NA	NA	NA
	Complete (hr)	NA	NA	NA	NA

Sediment	Criteria	Met?	NA

SCM 4		90%	2-year	10-year	100-year
Qpeak	Inflow (cfs)	0.0	0.0	0.0	0.0
	Outlet (cfs)	0.0	0.0	0.0	0.0
	Overflow (cfs)	0.0	0.0	0.0	0.0
	Outflow (cfs)	0.0	0.0	0.0	0.0
Depth	Max (in)	0.0	0.0	0.0	0.0
	Remaining (in)	NA	NA	NA	NA
Volume	Inflow (cf)	0	0	0	0
	ET (cf)	0	0	0	0
	Infil (cf)	0	0	0	0
	Outlet (cf)	0	0	0	0
	Overflow (cf)	0	0	0	0
	Outflow (cf)	0	0	0	0
	Remaining (cf)	0	0	0	0
	Continuity	NA	NA	NA	NA
Dewater	Surface (hr)	NA	NA	NA	NA
	Complete (hr)	NA	NA	NA	NA

Sediment Criteria Met? NA

				STEP 8	
DRAINAGE AF	REA SUMMARY Type	Drainage Area (ac)	% of Drainage	Discharge To	Sediment Criteria
SCM 1	None	0	0.0%	NA	NA
SCM 2	None	0	0.0%	NA	NA
SCM 3	None	0	0.0%	NA	NA
SCM 4	None	0	0.0%	NA	NA
Uncontrolled		0.83	100.0%	Offsite	Yes
Total		0.83	100.0%		

SEDIMENT CONTROL STRATEGY FOR UNCONTROLLED PORTIONS OF THE SITE

Required Yes

Strategy 4. Hydrodynamic sediment removal device (prefabricated device)

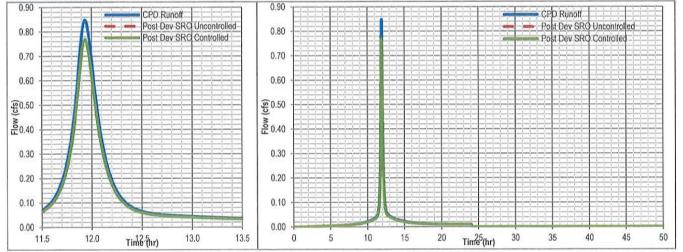
Notes:

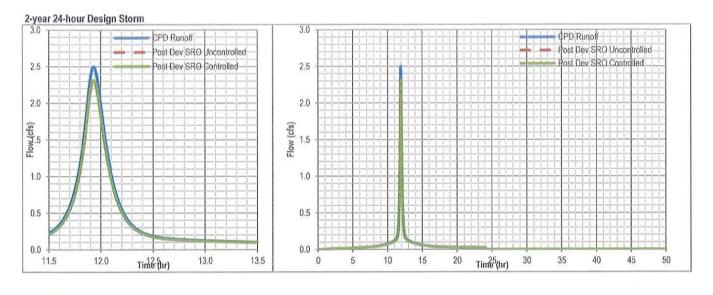
TOTAL SYSTEM RESULTS

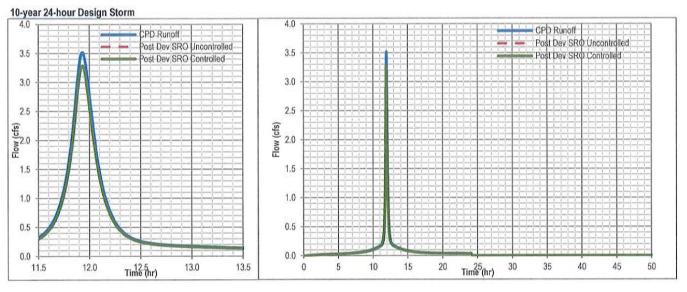
	Recurrence Interval	90%	2-year	10-year	100-year	0
PEAK FLOW	CPD Runoff (cfs)	0.85	2.50	3.52	5.68	- PECASSON RUNCH
	Post Dev SRO Uncontrolled (cfs)	0.77	2.31	3.29	5.39	3 - A PANCET
	Post Dev SRO Controlled (cfs)	0.77	2.31	3.29	5.39	APRIL PEDUOTEO
	Difference CPD - Post Dev (cfs)	0.1	0.2	0.2	0.3	OF IMPERVIOUS ARE
	Criteria	NA	Qpost<= 2.5 cfs	Qpost<= 3.5 cfs	Qpost<= 5.7 cfs	a imire
	Criteria Met (Y/N)	NA	Yes	Yes	Yes	
/OLUME	CPD Runoff (cf)	2,141	6,598	9,410	15,442	
	Post Dev Runoff (cf)	1,946	6,108	8,783	14,603	100
	ET (cf)	0	0	0	0	-RODOCTION IN RUNCH VOLUME = 6,598 -6,108 4900FT.
	Infiltration (cf)	0	0	0	0	Direct Value =
	Outflow (cf)	1,946	6,108	8,783	14,603	person -
	Remaining Storage (cf)	0	0	0	0	6,598
	Continuity Error (%)	0.00%	0.00%	0.00%	0.00%	6. 108
	Continuity Check	Okay	Okay	Okay	Okay	_ 6,1
	Criteria	NA	Qpost<= 6598 cf	NA	NA	406
	Criteria Met (Y/N)	NA	Yes	NA	NA	4100-1
SEDIMENT	Criteria Met (Y/N)	Yes	NA.	NANA	NA	
DEWATER TIME	Surface Water Dewater Time (hr)	0.0	0.0	0.0	0.0	
	Criteria	NA	<= 24 hrs	<= 24 hrs	<= 48 hrs	
	Criteria Met (Y/N)	Yes	Yes	Yes	Yes	
	Complete Drainage Dewater Time (hr)	0.0	0.0	0.0	0.0	
	Criteria	NA	<= 48 hrs	<= 72 hrs	<= 72 hrs	
	Criteria Met (Y/N)	Yes	Yes	Yes	Yes	

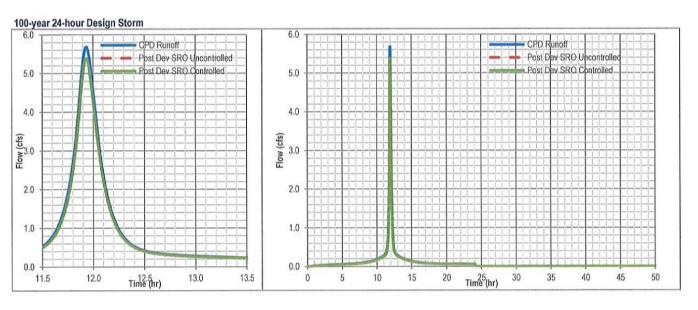
* results are based on a 100-hour simulation













SITE DEVELOPMENT STORMWATER TOOL (SDST)

FOR PARKING LOT
ADDITION.

SITE

Name

City Limits

Parcel Identification

33-19-10-05-53-006

Location Address

801 North Cedar Street, Mason, MI 48854

Nearest Major Intersection

Cedar Street and Kerns Road

OWNER

Contact

Organization

City Limits

Address

801 North Cedar Street, Mason, MI 48854

Phone Email

CALCULATIONS PERFORMED BY

Contact Organization Kurt R. Krahulik, P.e. DC Engineering, P.C.

Address

1210 N Cedar Street, Suite B, Lansing, Mi 48906

Phone Email (517) 853-7861

Date
QC By:
QC Date:

kkrahulik@DCEngPC.com

PROJECT DESCRIPTION

Project consists of the construction a building addition into the existing parking lot and the construction of additional parking lot. The existing parking lot and building currently drain by overland flow to the northwest corner of the site where runoff is collected by a culvert which conveys the runoff to the existing MDOT roadside ditch along the south side of the US 127 exit ramp. The existing lawn area at the southeast corner of the site, to be converted to proposed parking lot, generally drains to the east into the MDOT roadside ditch along the west side of Cedar Street (MDOT 36). The runoff from the proposed parking construction will be drained by overland flow to a surface detention system at the south end of the parking lot. The detention system will be designed to control the 2 year, 10 year and 100 year flows to pre-existing rate, and control the 2 year runoff volume to pre-existing rate. The existing parking lot to the north of the proposed parking addition will have 4 landscape islands installed and be re-alinged to allow for removal of impervious surface along the east edge of the parking lot. This reduction of impervious area, and resulting decrease in runoff rate and volume, will be incorpoated into the discharge rate and volume of the proposed detention system for the additional parking lot area. The infiltration rate for the detention basin was obtained from the NRCS Websoil Survey for a UtB-Urban Land Marlette complex. The average infiltration rate for the subsoils at the proposed detention basin bottom was utilized in the model.

COMMENTS, QUESTIONS, OR CONCERNS

FOR CITY USE ONLY

Site Plan Review

Reviewed by Approved by

Date

Comments:

PURPOSE

The purpose of this spreadsheet model is to assist the design professional with sizing stormwater control measures for a given site development project. The spreadsheet model generates flow conditions based on the NRCS Curve Number approach using curvilinear unit hydrographs and a Type II rainfall distribution. Flow is passed through the stormwater control measures using a simple reservoir routing technique. The intent of the spreadsheet model is to help simplify the calculation steps but is by no means a substitue for professional engineering judgement.

STEPS

1	Site Area and Soil Type	Input site total area and the native soil type. A manual entry for the infiltration rate can be input. Backup information supporting
		the infiltration rate should be provided when manually adjusting the default values.
2	Condition Prior to Development	Use the drop down boxes to select the cover type for the site and enter the surface area for each cover type. Up to five (5)
		separate cover types may be selected. The composite CN for the site is automatically calculated. Manual entry of the CN is
		allowed as an alternative. Time of concentration is also entered. Total site area must equal the area entered in Step 1.
3	Post Development Condition	Use the drop down boxes to select the cover type for the site and enter the surface area for each cover type. Up to five (5)
		separate cover types may be selected. The composite CN for the site is automatically calculated. Manual entry of the CN is
		allowed as an alternative. Time of concentration is also entered. Total site area must equal the area entered in Step 1.
4		

5	Job Control	Job control information that doesn't normally change. Do nothing in this section
6	Stormwater Control Measures	Enter SCMs here. First enter the cross-sectional information, next enter the outlet control mechanism. Cross-section
		information is entered from the bottom up. Evaporation and infiltration may be toggled on and off for each control measure independently. It is suggested to work first on the smallest storm and meet the criterion. Then work sequentially on the larger events meeting the incremental criteria for each event.
7	Individual Results	This section shows the detailed results for each SCM.
8	Global Results	This section shows the global results and whether design criteria have been met.

CELL FORMATTING

STEP X	Step number headings
labels	Labels
input	Input Cells
calculation	Calculated Cells
linked	Linked Cells (similar to calculated cells)
standardized variables	Input Cells, but these are standardized variables and normally should not be changed

NOMENCLATURE

CN	Curve Number
Coefficient C	Orifice coefficient (typical value is 0.6) or the Weir coefficient (typical value 3.0) depending on selected outlet type
CPD	Condition Prior to Development
Dev	Development
ET	Evapotranspiration
Infil	Infiltration
Len	Length
NA	Not Applicable
Outflow	Sum of Outlet flow and Overflow (Step 7)
Outlet	Discharge through the orifice or weir (Step 7)
Overflow	Discharge overflowing the SCM (Step 7)
PRF	Peak Rate Factor (a shape factor associated with the curvillear unit hyrograph)
Qpeak	Peak Flow
S. Area	Surface Area
SCM	Stormwater Control Measure
Vol	Volume

MODELING CAVEATS

1 The design professional is responsible for proper placement of the stormwater control measure on the site to achieve the necessary overall site drainage control.

2

3

REFERENCES

- 1 USDA NRCS NEH Part 630 Hydrology: Chp 7 Hydrologic Soil Groups, Chp 8 Land Uses and Treatment Classes, Chp 9 Hydrologic Soil-Cover Complexes, Chp 10 Estimation of Direct Runoff from Storm Rainfall, Chp 15 Time of Concentration, and Chp 16 Hydrographs
- 2 Spreadsheet model developed by Dan Christian, Tetra Tech. (517) 394-8615. Dan.Christian@tetratech.com

SITE CHARACTERISTICS SITE AREA 0.37 acres STEP SOIL TYPE HSG Auto Manual Infil (in/hr) C Sandy clay loam 0.17 0.38 NRCS Velocity Method for Time of Concentration SEE NRCS WEBSON SURITY 2-year 24-hour Rainfall (in) 2.42 FIGURE 4 Please provide backup information to support manual entry of infiltration rate CONDITION PRIOR TO DEVELOPMENT Surface Cover Cover No. Area (ac) CN 1 Urban | Open Space (lawns, parks, golf, cemeteries) | Good (grass cover >50%) 64 2 Not Used NA 3 Not Used NA 4 Not Used NA 5 Not Used NA 6 Manual Entry STEP 2 0.37 Total Time of Concentration No. Surface Feature Slope (ft/ft) Manning n Length (ft) Tt (hr) 1 Sheet Flow - Dense grasses 0.02 0.24 100 0.27 2 Shallow Conc. - Grassed waterways 0.01 0.05 0.01 50 3 Not Used NA 0.00 4 Not Used NA 0.00 5 Not Used NA 0.00 6 Manual Entry CPD Tc (hr) 0.29 POST DEVELOPMENT CONDITIONS Surface Cover Area (ac) CN Urban | Paved Parking, Roofs, Driveways (excl. ROW) | 100% impervious 2 Urban | Open Space (lawns, parks, golf, cemeteries) | Good (grass cover >50%) 0.11 64 3 Not Used NA 4 Not Used NA 5 Not Used NA 6 Manual Entry Total 0.37 di Time of Concentration Slope (ft/ft) Manning n Length (ft) No. Surface Feature Tt (hr)

0.02

0.02

NA

NA

NA

0.011

0.025

Post Tc (hr)

0.01

0.01

0.00

0.00

0.00

0.10

1 Sheet Flow - Smooth Surface

3 Not Used

4 Not Used

5 Not Used

6 Manual Entry

2 Shallow Conc. - Pavement and small upland gullies

JOB CONTROL

CLIMATOLOGY DATA

Water Quality Channel Collection Roadway Treatment Volume Protection Pipe) System Flood System Recurrence Interval 0.9 2-year 10-year 100-year 24-hr Duration (hr) 24-hr 24-hr 24-hr 0.90 2.41 3.35 5.36 Precipitation (in)

Evapotranspiration (in/day) Hyetograph Distribution 0.1 RAINFAU PER ATLAS 14
Type II SEE FIGURE 5

DESIGN CRITERIA

Recurrence Interval	90%	2-year	10-year	100-year
Treatment of Runoff for Sediment Load	Yes	NA	NA	NA
Peak flow (% of CPD)	NA	100%	100%	100%
Volume (% of CPD)	NA	100%	NA	NA
Dewater Time (hr), surface water [time from end of rainfall]	NA	24	24	48
Dewater Time (hr), complete drainage [time from end of rainfall]	NA	48	72	72

CONDITION PRIOR TO DEVELOPMENT

Peak Rate Factor (PRF)	484			
Ratio of Initial Abstraction to Potential Maximum Retention Iλ=Ia/S1	0.05			
Recurrence Interval	90%	2-year	10-year	100-year
Precipitation (in) [P]	0.90	2.41	3.35	5.36
Actual retention after runoff begins (in) [F]	0.84	1.83	2.27	2.95
Precipitation Excess (aka runoff) (in) [Q]	0.06	0.58	1.08	2.41
Precipitation Excess (aka runoff) (cf) [Q]	82	783	1,451	3,230
Precipitation Excess as a fraction of the total rainfall (%)	7%	24%	32%	45%

POST DEVELOPMENT CONDITIONS (No SCMs)

Peak Rate Factor (PRF)	484			
Ratio of Initial Abstraction to Potential Maximum Retention Iλ=Ia/S1	0.05			
Recurrence Interval	90%	2-year	10-year	100-year
Precipitation (in) [P]	0.90	2.41	3.35	5.36
Actual retention after runoff begins (in) [F]	0.38	0.69	0.82	1.03
Precipitation Excess (aka runoff) (in) [Q]	0.52	1.72	2.53	4.33
Precipitation Excess (aka runoff) (cf) [Q]	701	2,312	3,393	5,815
Precipitation Excess as a fraction of the total rainfall (%)	58%	71%	75%	81%

STORMWATER CONTROL MEASURES							STEP 6						
SCM 1													
Practice Type Detention		User Inp	ut Notes a	and Cor	nments								
Orainage Area (ac) 0.37													
Discharge To Offsite													
Sediment Strategy 2. Retention and infiltration				4-14		-							
X-sec Entry Auto Calc Rectangular Shape: User Define	d Botton	and Side	e Slopes										
Cross Section	Layer	Side	Width	Len	Surface	Total	User Inp	ut	Porosity	Field	Void	UserDef	Water
Media	(in)	Slope	(ft)	(ft)	Area (sf)	Vol	SA (sf)	Vol (cf)		Capacity	Ratio	Void	Sto Vo
Top		xH:1V	14.5	226.5	3,284	(cf)						Override	(cf)
NA			14.5	226.5	3,284	0			NA		100%		
NA			14.5	226.5	3,284	0			NA	NA	100%		
NA			14.5	226.5	3,284	0			NA	NA	100%		9
NA	1,77		14.5	226.5		0			NA	NA	100%		
Bottom Surface Storage	21	3	4.0	216.0	864	3,402			NA	NA	100%		3,40
Total	21					3,402		0					3,402
Surface Storage Depth (in)	21	1							Allowed	Area (sf)			
Media Storage Depth (in)	0						Eva	poration	\$16 A SERVICE AND ADDRESS OF THE PARTY.	3284			
Media (limiting) Infiltration Rate (in/hr)	0.38				lr	ıfiltration	(through	bottom)	Yes	864			
Outlet Type	Orifice	None	None	None	None								
Offset from bottom (in)	(3		SALES CONTRACTOR OF SALES										
coefficient c	0.6					_	- 00	1500	Sun	- 211	ART	B.	ASIA
Area (sf) or Length (ft)	A Committee of the Comm						Q			000	NO TO	=15-618	CE.
Volume below the offset (cf)	Children on the Control of the Contr	NA	NA	NA	NA		1.30	o I ICM	1 10	-3" Pea 10,		- 1	
400000000000000000000000000000000000000							10	OFIL	PEATT	· .			
	1 11 0	6 ori	Sice										
~	6 1	CANT	rice										

SCM 2	1	I leas le-	ut Mata-	and Car	amonto					101-			
Practice Type None Drainage Area (ac)		User inp	ut Notes a	and Con	nments								
Discharge To Offsite													1315
Sediment Strategy Select Strategy		-	7 5				7707			THE STATE	OT ITS	0.7.00	
X-sec Entry Auto Calc Rectangular Shape User Defin	ed Bolton	and Side	a Siopes										e pito
	Layer	Side	Width	Len	Surface	Total	User Inp	ut	Porosity	Field	Void	UserDef	Water
Cross Section Media	(in)	Slope	(ft)	(ft)	Area (sf)	Vol	SA (sf)	Vol (cf)	0.6 0.045-0195	Capacity	Ratio	Void	Sto Vo
Top		xH:1V	0.0	0.0	0	(cf)	0.					Override	(cf)
MA		(1)	0,0	0.0	0	()	0		NA.	IVA	-100%		
NA		0	0.0	0.0	-	0	(3)		NA	NA	100%		
MA		0	0.0	0.0		0	0		NA	MA.	100%		
NA		0	0.0	0.0	0	.0	9		NA.	MA	100%		
Bottom NA		(1		DIF.	- (3	0	0	- 0	MA	MA	100%		
Tota	0					- 0		0			Total		- 1
Surface Storage Depth (in	0.00	ĺ							Allowed	Area (sf)			
Media Storage Depth (in)	. 0							poration		0			
Media (limiting) Infiltration Rate (in/hr	10				In	filtration	(through	bottom)	Yes	0			
Outlet Type	None	None	Hone	None	None								
Offset from bottom (in	AND RESIDENCE OF THE PARTY OF T												
coefficient of													
Area (sf) or Length (ff		7581		To the									
Volume below the offset (cf		NA	MA	MA	NIA								

				STEP 6	con't									
SCM 3														
Practice Type	None	1	User Inp	ut Notes a	and Com	ments								
Drainage Area (ac			and the second											
Discharge To					-7									
Sediment Strategy														
X-sec Entry	Auto Calo Reciangular Shape. User Deline	d Bottom	and Sid	e Slodes										
													ny na saona and a de	
		Layer	Side	Width		Surface	Total	User Inp		Porosity			UserDef	
Cross Section		(in)	Slope	(ft)	- Control of the Cont	Area (sf)	Vol	SA (sf)	Vol (cf)		Capacity	Ratio		Sto Vol
Top			xH:1V	0.0	0.0	U	(cf)	0	-	1000		2 80100	Override	(cf)
	NA.		9	0.0	9.0	0		0		MA	N/A	100%		Ų
	MA		0	0.0	0.0	0	0	8	- 0.	MA	NA.	100%		0
	NA.		0	0.0	0.0	0	0	0	0	NA	DIA	100%		0
	NA .	1000	()	0.0	0.0	1)	0	0	0	NA.	NA	100%		0
Botton			0	0.0	9.9	0	- 0	0	- 0	NA	NA	10030		0
	Total	- 0				1	0		0	i.		Total	1	- 0

	Surface Storage Depth (in)	0.00						1.1440000		a local distribution in the local distributi	Area (sf)			
	Media Storage Depth (in)	G				40	m v		poration		U.			
	Media (limiting) Infiltration Rate (in/hr)	10				ir.	itiltration	n (through	bottom)	Yes	. 4			
	Outlet Type	Hone	None	Mone	Hone	Mana								
	Offset from bottom (in)													
	coefficient c													
	Area (sf) or Length (ft)													
	Volume below the offset (cf)	LUA	MA	1/1/2	NA	MA								
Practice Type Drainage Area (ac			User Inp	out Notes a	and Con	nments								n A
Discharge To														
Sediment Strateg	Select Strategy				DE								DIE	
	y Auto Calc Rectangular Shape: User Define	d Botton	and Sid	e Slopes										
		Layer	Side	Width	Len	Surface	Total			Porosity		Void	UserDef	
Cross Section		(in)	Slope	(ft)		Area (sf)	Vol	SA (sf)	Vol (cf)		Capacity	Ratio	Void	Sto Vol
Top			xH:1V	0.0	0,0	.0	(cf)	0		Turus.	I contain 1	-372-4650	Override	
	NA .		0	0.0	0.0	0	- 9	0		MA	NA	100%		0
	NA .		0	0.0	0.0	0	(MA	NA	100%		0
	NA		0	0.0	0.0	1)		0		NA	N/A	100%		- 0
	MA		0	0.0	0.0	9	(0		MA	NA	100%		0
Botton			0	0.0	0.0	Q.	1	1 0	0	NA	NA	100%		0
	Total	0					()	0			Total		0
										vzi i	000			
	Surface Storage Depth (in)	0.08						227			Area (sf)			
	Media Storage Depth (in)	0				0.			poration		0			
	Media (limiting) Infiltration Rate (in/hr)	10				li	ntiltratio	n (through	bottom)	Yes	0			
		A.c. market		1		1								
	Outlet Type		None	Mone	Nona	None								
	Offset from bottom (in)													
	coefficient c													
	Area (sf) or Length (ft)					1								

INDIVIDI	JAL SCM RESU	LTS		STEP 7		
SCM 1		90%	2-year	10-year	100-year	
Qpeak	Inflow (cfs)	0.3	0.9	1.3	2.2	
	Outlet (cfs)	0.0	0.4	0.6	8.0	
	Overflow (cfs)	0.0	0.0	0.0	0.0	
	Outflow (cfs)	0.0	0.4	0.6	8.0	
Depth	Max (in)	2.3	5.0	7.0	11.1	9
	Remaining (in)	0.0	0.0	0.0	0.0	
Volume	Inflow (cf)	701	2,312	3,393	5,815	
	ET (cf)	35	46	47	47	
	Infil (cf)	666	1,039	1,080	1,108	
	Outlet (cf)	0	1,227	2,266	4,660	
	Overflow (cf)	0	0	0	0	
	Outflow (cf)	0	1,227	2,266	4,660	
	Remaining (cf)	0	0	0	0	
	Continuity	0.00%	0.00%	0.00%	0.00%	
	Continuity	Okay	Okay	Okay	Okay	
Dewater	Surface (hr)	8.5	17.2	17.2	17.2	
	Complete (hr)	-24.0	0.1	0.1	0.1	

Sediment Criteria Met? Yes (filtered through media)

No OUER PROPOSI	ED FACI	LITY	Carren	ws By

SCM 2		90%	2-year	10-year	100-year
Qpeak	Inflow (cfs)	0.0	0.0	0.0	0.0
	Outlet (cfs)	0.0	0.0	0.0	0.0
	Overflow (cfs)	0.0	0.0	0.0	0.0
	Outflow (cfs)	0.0	0.0	0.0	0.0
Depth	Max (in)	0.0	0.0	0.0	0.0
PONDE STAN	Remaining (in)	NA	NA	NA	NA
Volume	Inflow (cf)	0	0	0	0
	ET (cf)	0	0	0	0
	Infil (cf)	0	0	0	0
	Outlet (cf)	0	0	0	0
	Overflow (cf)	0	0	0	0
	Outflow (cf)	0	0	0	0
	Remaining (cf)	0	0	0	0
	Continuity	NA	NA	NA	NA
Dewater	Surface (hr)	NA	NA	NA	NA
					677,000

NA

NA

NA

NA

Sediment Criteria Met? NA

Complete (hr)

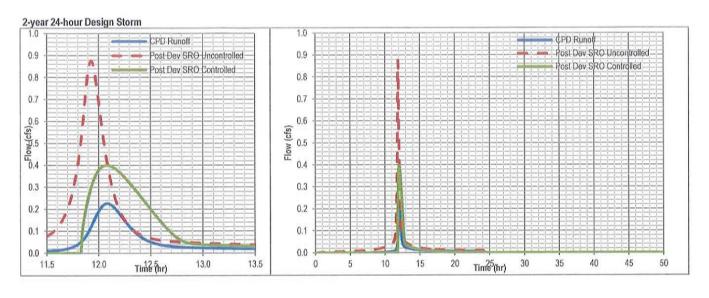
	S	TEP 7 co	on't		
SCM 3		90%	2-year	10-year	100-year
Qpeak	Inflow (cfs)	0.0	0.0	0.0	0.0
	Outlet (cfs)	0.0	0.0	0.0	0.0
	Overflow (cfs)	0.0	0.0	0.0	0.0
	Outflow (cfs)	0.0	0.0	0.0	0.0
Depth	Max (in)	0.0	0.0	0.0	0.0
	Remaining (in)	NA	NA	NA	NA
Volume	Inflow (cf)	0	0	0	0
	ET (cf)	0	0	0	0
	Infil (cf)	0	0	0	0
	Outlet (cf)	0	0	0	0
	Overflow (cf)	0	0	0	0
	Outflow (cf)	0	0	0	0
	Remaining (cf)	0	0	0	0
	Continuity	NA	NA	NA	NA
Dewater	Surface (hr)	NA	NA	NA	NA
	Complete (hr)	NA	NA	NA	NA

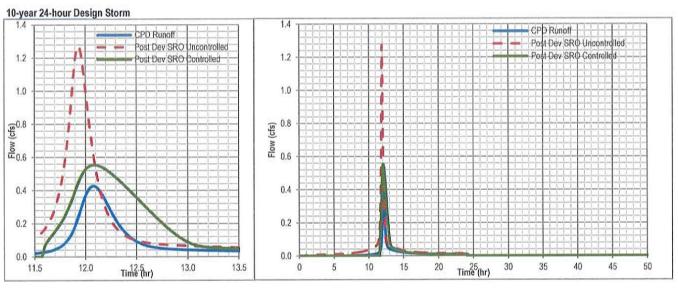
Sediment Criteria Met? NA

SCM 4		90%	2-year	10-year	100-year
Qpeak	Inflow (cfs)	0.0	0.0	0.0	0.0
397	Outlet (cfs)	0.0	0.0	0.0	0.0
	Overflow (cfs)	0.0	0.0	0.0	0.0
	Outflow (cfs)	0.0	0.0	0.0	0.0
Depth	Max (in)	0.0	0.0	0.0	0.0
5240000	Remaining (in)	NA	NA	NA	NA
Volume	Inflow (cf)	0	0	0	0
	ET (cf)	0	0	0	0
	Infil (cf)	0	0	0	0
	Outlet (cf)	0	0	0	0
	Overflow (cf)	0	0	0	0
	Outflow (cf)	0	0	0	0
	Remaining (cf)	0	0	0	0
	Continuity	NA	NA	NA	NA
Dewater	Surface (hr)	NA	NA	NA	NA
	Complete (hr)	NA	NA	NA	NA

Sediment Criteria Met? NA

Peak FLOW CPD Runoff (cfs) 0.02 0.23 0.43 0.97 Post Dev SRO Uncontrolled (cfs) 0.00 0.40 0.55 0.79 Difference CPD - Post Dev (cfs) 0.0 0.2 (0.1) 0.2 Criteria Met (YN) NA	
Detention 0.37 100.0% Offsite Ves None 0 0.0% NA NA NA NA NA NA NA N	
None 0 0.0% NA	
CM None	
SEDIMENT CONTROL STRATEGY FOR UNCONTROLLED PORTIONS OF THE SITE CLEMENT (S. Achieved) For the street Contract of	
Required No Strategy Fly odg/1/3 mos settlement permoval Device professional device d	
Required No Strategy FOR UNCONTROLLED PORTIONS OF THE SITE Required No Strategy For Long Portions Proceedings Process Proces	
Required No StrateGy FOR UNCONTROLLED PORTIONS OF THE SITE Required No Strategy 4 Fed odynamic bedinner removal useries professional desirate professional desir	
Post Dev Ronoff (cfs 0.02 0.23 0.43 0.97 0.79	
PEAK FLOW CPD Runoff (cfs) 0.02 0.23 0.43 0.97 0.97 0.28 0.88 1.27 0.79 0.79 0.29 0.20	73 As
PEAK FLOW CPD Runoff (cfs) 0.02 (0.23) (0.43 0.97 Post Dev SRO Uncontrolled (cfs) 0.28 0.88 1.27 2.17 Post Dev SRO Controlled (cfs) 0.00 (0.40 0.55 0.79 Difference CPD - Post Dev (cfs) 0.0 (0.2) (0.1) 0.2 Criteria	16 < 2.73 °
PEAK FLOW CPD Runoff (cts) Post Dev SRO Uncontrolled (cfs) Post Dev SRO Controlled (cfs) Difference CPD - Post Dev (cts) Criteria Criteria Met (Y/N) Post Dev Runoff (ct) Post Dev Runoff (ct) Post Dev Runoff (ct) Post Dev Runoff (ct) Total (cts) Post Dev Runoff (ct) Post Dev Runoff (ct) Post Dev Runoff (ct) Total (cts) Post Dev Runoff (ct) Total (cts) Post Dev Runoff (ct) Pos	ROMEXISTING
Post Dev SRO Uncontrolled (cfs) Post Dev SRO Controlled (cfs) Difference CPD - Post Dev (cfs) Criteria Met (Y/N) NA Qpost<= 0.2 cfs Qpost<= 0.4 cfs Qpost<= 1 cfs Criteria Met (Y/N) NA No No No Yes VOLUME CPD Runoff (cf) Post Dev Runoff (cf) Fost Dev Runoff (c	ARKING = 3,95
Post Dev SRO Controlled (cfs)	FRAM EXCISTING
Difference CPD - Post Dev (cfs)	PENCA = 3, 840
Criteria Met (Y/N)	
Criteria Met (Y/N)	<3.95ds €
VOLUME	
Post Dev Runoff (cf)	& FROM EXISTIA
ET (cf) 35 46 47 47 47 47 47 47 47	exists = 6.65cl
Infiltration (cf)	7 - 6000 300
Outflow (cf) 0 1,227 2,266 4,660 Remaining Storage (cf) 0 0 0 0 0 Continuity Error (%) 0.00% 0.00% 0.00% 0.00% Continuity Check Okay Okay Okay Okay Okay Criteria MA Opost<= 783 cf NA NA NA Criteria Met (Y/N) NA NO NA	FROM EXISTIN
Remaining Storage (cf)	CIDC = 6.18d
Continuity Error (%) 0.00%	
Continuity Check	6.65 cfs ox
Criteria Met (Y/N)	
Criteria Met (Y/N) NA NO NA NA NA NA NA NA	BEIN VOLUME
SEDIMENT Criteria Met (Y/N) Yes NA	FF = 2,31Z
DEWATER TIME Surface Water Dewater Time (hr) 8.5 11.2 17.2 17.2	- 783
Criteria	
Criteria Met (Y/N) Complete Drainage Dewater Time (hr) Criteria Criteria Met (Y/N) Yes Yes Yes Yes Yes Yes The proper of the proper	1529
Complete Drainage Dewater Time (hr) Criteria NA	T /Man
Criteria NA <= 48 hrs <= 72 hrs <= 72 hrs Criteria Met (Y/N) Yes Yes Yes * results are based on a 100-hour simulation	5010 (440)
* results are based on a 100-hour simulation	Franc 162
* results are based on a 100-hour simulation	Pareinc, 1,03
* results are based on a 100-hour simulation	TECE
	1039CPT
90% Recurrence Interval	MENIDEN
0.30 CPD Runoff 0.30	
Post Dev SRQ Uncontrolled	
Poet Day SRC Controlled	
0.25	
0.20	
(F) (O.15)	
0.10	
0.05	
000	
0.00 1 11.5 12.0 Tint 5hrt 13.0 13.5 0 5 10 15 20 Tint 5thr) 30 35 40 45	
11.5 12.0 Time (hr) 13.0 13.5 0 5 10 15 20 Time (hr) 30 35 40 45	50





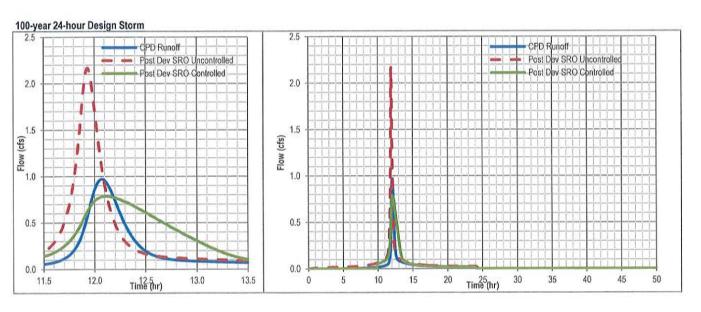


FIGURE Y

Page /

	y	Kf T group index				.37 5 5 56	49	.32	.37
	Organic matter	Kw	Pct			3.0	0.0-0.349	0.0-0.332	0.0-0.337
y, Michigan	Linear		Pct			0.0-1.5-2.9			
Physical Soil Properties-Ingham County, Michigan	Available water capacity		In/In				0.11-0.16-0.	0.18-0.19-0.	0.12-0.16-0.
	Silt Clay Moist Saturated A bulk hydraulic density conductivity c		micro m/sec			14.00-28.00-42. 0.17-0.21-0. 00 24	14.00-28.00-42. 0.11-0.16-0. 0.0-1.5-2.9 00	25-30-35 1.50-1.63 1.40-2.704.00 0.18-0.19-0. 0.0-1.5-2.9 20	15-23-30 1.50-1.63 1.402.70,4.00 0.12-0.16-0. 0.0-1.5-2.9
Physical S			g/cc				1.50-1.58 1-1.65	1.50-1.63 1	1.50-1.63 1
			Pct			10-14-18 1.50-1.58 -1.65	5-12-18	25-30-35	15-23-30
			Pct			-14	43	-37-	-86
	Sand		Pct			-45-	-45-	-34	40-
	Depth		uj		ĺ	6-0	9-15	15-31	31-60 -40-
	Map symbol Depth and soil name			UtB—Urban land-Marlette complex, 2 to 12 percent slopes	Urban land	Marlette			

Data Source Information

Soil Survey Area: Ingham County, Michigan Survey Area Data: Version 15, Oct 5, 2017

- Average in Whether Ret @ Bottom.

INFIGRATION = 2,570 MM/S XO,1417 = 0.58 (2) H.C.





Location name: Mason, Michigan, USA*
Latitude: 42.589°, Longitude: -84.4599°
Elevation: 904.11 ft**
* source: ESRI Maps
* source: USGS NOAA Atlas 14, Volume 8, Version 2



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

PF tabular | PF graphical | Maps & aerials

PF tabular

	PDS	PDS-based point		precipitation frequency estimates with 90% confidence intervals (in inches)	guency es	stimates v	vith 90% c	onfidenc	e interva	ls (in inc	hes) ¹
		-			Average	recurrence	Average recurrence interval (years)	ars)			
<u> </u>	Duration	1	2	2	10	25	50	100	200	200	1000
40	5-min	0.296 (0.252-0.350)	(0.252-0.350) (0.293-0.408)	0.428 (0.362-0.508)	0.501 (0.421-0.597)	0.606 (0.492-0.751)	0.692 (0.546-0.867)	0.782 (0.592-1.00)	0.876 (0.631-1.15)	1.01 (0.693-1.36)	1.11 (0.740-1.52)
~	10-min	0.433 0.504 (0.369-0.512) (0.429-0.597)	0.504 (0.429-0.597)	0.626 (0.530-0.743)	0.733 (0.616-0.874)	0.888 (0.720-1.10)	1.01 (0.799-1.27)	1.15 (0.866-1.47)	1.28 (0.924-1.69)	1.48 (1.01-2.00)	1.63 (1.08-2.23)
	15-min	0.528 (0.449-0.625)	0.615 (0.523-0.728)	0.764 (0.647-0.907)	0.894 (0.752-1.07)	1.08 (0.878-1.34)	1.24 (0.974-1.55)	1.40 (1.06-1.79)	1.57 (1.13-2.06)	1.80 (1.24-2.43)	1.98 (1.32-2.72)
n	30-min	0.746 (0.634-0.882)	0.872 (0.741-1.03)	1.09 (0.921-1.29)	1.27 (1.07-1.52)	1.55 (1.25-1.91)	1.76 (1.39-2.21)	1.99 (1.50-2.55)	2.22 (1.60-2.93)	2.55 (1.75-3.45)	2.81 (1.87-3.84)
9	60-min	0.929 (0.790-1.10)	1.11 (0.946-1.32)	1.43 (1.21-1.69)	1.70 (1.43-2.02)	2.09 (1.69-2.59)	2.40 (1.89-3.01)	2.73 (2.07-3.50)	3.08 (2.21-4.05)	3.55 (2.44-4.80)	3.92 (2.61-5.37)
	2-hr	1.11 (0.954-1.30)	1.35 (1.16-1.59)	1.76 (1.51-2.08)	2.12 (1.80-2.51)	2.63 (2.15-3.24)	3.05 (2.42-3.79)	3.48 (2.65-4.43)	3.93 (2.85-5.13)	4.55 (3.16-6.10)	5.04 (3.39-6.84)
	3-hr	1.21 (1.05-1.42)	1.49 (1.28-1.74)	1.96 (1.68-2.30)	2.38 (2.02-2.79)	2.98 (2.45-3.64)	3.46 (2.77-4.29)	3.97 (3.05-5.03)	4.51 (3.30-5.87)	5.25 (3.67-7.02)	5.84 (3.95-7.89)
	6-hr	1.46 (1.27-1.69)	1.75 (1.52-2.03)	2.27 (1.96-2.63)	2.73 (2.35-3.18)	3.42 (2.85-4.17)	3.99	4.60 (3.57-5.81)	5.25 (3.89-6.80)	6.17 (4.37-8.20)	6.91 (4.73-9.26)
(055) 	12-hr	1.81 (1.59-2.07)	2.06 (1.81-2.37)	2.54 (2.21-2.92)	2.98 (2.59-3.45)	3.67 (3.10-4.46)	4.26 (3.49-5.23)	4.91 (3.86-6.16)	5.62 (4.21-7.24)	6.64 (4.76-8.78)	7.47 (5.18-9.94)
	24-hr	2.15 (1.90-2.44)	2.41 (2.13-2.74)	2.89 (2.55-3.30)	3.35 (2.93-3.84)	4.07 (3.47-4.90)	4.69 (3.88-5.70)	5.36 (4.26-6.68)	6.11 (4.64-7.81)	7.19 (5.22-9.43)	8.08 (5.66-10.7)
	2-day	2.42 (2.16-2.73)	2.77 (2.47-3.12)	3.40 (3.01-3.84)	3.96 (3.49-4.49)	4.80 (4.11-5.69)	5.50 (4.58-6.60)	6.25 (5.01-7.68)	7.06 (5.40-8.91)	8.21 (6.01-10.6)	9.13 (6.46-11.9)
3,3	3-day	2.65 (2.38-2.97)	3.02 (2.71-3.39)	3.67 (3.28-4.13)	4.26 (3.78-4.81)	5.14 (4.43-6.07)	5.88 (4.93-7.02)	6.67 (5.37-8.15)	7.52 (5.78-9.44)	8.71 (6.42-11.2)	9.68 (6.90-12.6)
7	4-day	2.86 (2.58-3.19)	3.23 (2.90-3.61)	3.89 (3.48-4.35)	4.49 (3.99-5.05)	5.39 (4.66-6.33)	6.14 (5.17-7.30)	6.95 (5.63-8.47)	7.82 (6.05-9.79)	9.06 (6.71-11.7)	10.1 (7.21-13.1)
L											



Westside Builders

Project:

City Limits

Basin Describeration (SURFACE STURAGE FOR NEW PACKIX NOA)

	ontour	Contour	Depth	Incremental	Cumulative
Ele	evation	\$ 50.00	(ft)	Volume	Volume
		(sq. ft)		Conic	Conic
				(cu. ft.)	(cu. ft.)
	903.5	1,006.64	N/A	N/A	0
	903.6	1,063.52	0.1	103.49	103.49
	903.7	1,161.34	0.1	111.21	214.7
	903.8	1,258.54	0.1	120.96	335.66
PONDING	903.9	1,355.17	0.1	130.66	466.32
MINDING	904	1,451.24	0.1	140.29	606.61
PONDING	904.1	1,546.65	0.1	149.87	756.48
broding.	904.2	1,641.55	0.1	159.39	915.87
	904.3	1,736.08	0.1	168.86	1084.73
	904.4	1,829.56	0.1	178.26	1262.99
LOOYR	904.5	1,923.54	0.1	187.64	1450.62
PONDING.	904.6	2,069.47	0.1	199.61	1650.23
	904.7	2,279.53	0.1	217.37	1867.6
	904.8	2,555.77	0.1	241.63	2109.23
	904.9	2,890.46	0.1	272.14	2381.37
	905	3,303.26	0.1	309.46	2690.83
	905.1	3,809.96	0.1	355.36	3046.19
	905.2	4,410.60	0.1	410.66	3456.85
	905.3	5,116.05	0.1	475.9	3932.74
	905.4	5,929.78	0.1	551.79	4484.54
	905.5	6,854.06	0.1	638.63	5123.17
Monan	→ 905.6	7,856.53	0.1	734.96	5858.13
become					

EVEVATION OF BASING OVERFLAN AT SOUTH WEST CORNOR OF BASID.



CLIENT NAME WESTSIDE BUILDER JOB NAME CATY LIMITS
SUBJECT DISCHARGE VELOCITY TO READSIDE DITENT PG 1/1

COMPUTED BY KEV DATE 1/16/2019 CHK. BY DATE

PROBLEM:

CONDUTE VELOCITY FROM PROPOSED SURFACES
DETENTION TO MOST READSIDE DITCH

SOLUTICO:

THE PROPOSED PIPE IS AS S'-INCH APE AT SLOPE = 0.47%

PER MASNING: VFULLARE = 1.49 R^{2/3}51/2 = N= 0.013 R= P/4

5 = 0.0047

VF = 2.38 Ps

QFUL = VF . A = 0,830fs.

Proposed Zye 0 = 0.4cfs 10yr 0 = 0.55cfs 10yr Q = 0.79cfs.

> · . Au PREPOSED VEROCITY WILL BE LESS THAN Z.38 fgs.



Michigan Department of Transportation 2484 (01/18)

DRAINAGE DESIGN CHECKLIST FOR ACCESSING STATE TRUNKLINES

Page 1 of 2

INSTRUCTION: ALL FIELDS SHALL BE COMPLETED BY THE APPLICANT.

This checklist provides the required information necessary for MDOT review of drainage connections within MDOT right of way (ROW). MDOT's Drainage Manual (DM) should be used as the primary reference for hydrologic and hydraulic calculations and can be found at: http://www.michigan.gov/stormwatermgt. MDOT will not accept drainage connections from properties that do not naturally drain to the MDOT ROW.

M	Base Information (Provide all) Contour map of existing and proposed conditions
	Hydrologic analysis of existing and proposed conditions (Rational or modified rational methods are not
222	acceptable for determining volume.)
	Plans of proposed storm water conveyance system
	Outlet control details Connection details to MDOT system
	Hydraulic design calculation
	Certification Statement (Signed by a Michigan Registered Professional Engineer.)
_	Information for Detention/Retention Basins
	Elevation vs storage table or curve Elevation vs discharge table or curve
	Soil boring information showing groundwater elevations, permeability tests shall be performed for infiltration
	basins
	Flood Routing Method (Choose one. Required for sites with detention and/or retention.)
	□ NRCS TR55 □ TR20
	☐ Modified Puls Method
	☐ HEC-1
	Other City of LANSING SITE DEVELOPMENT STORMWATER TOOL
	Notes:
	 Program must use a hydrograph to calculate volume. The rational or modified rational methods are not acceptable for flood routing.
	10.16 A MARINE DATE OF THE REPORT OF THE PROPERTY OF THE ARRANGE O
	Additional Information (Provide all that apply) Public Drainage Easement(s)
	(Required when multiple properties share the proposed drainage system)
	NPDES Storm Water Industrial Permit (Certificate of Coverage)
	(Required when storm water discharge associated with industrial activities defined by 40 CFR 122.25(b)(14)).
	Energy Dissipation details to control outlet velocities
_	(Required when proposed velocity is greater than 6 fps)
	Outlet shut off details for water quality purposes
	(Required when the possibility for a potentially hazardous material spillage exists) Local Requirements
_	(Required when either flows or storage volumes are more restrictive then MDOT's requirements.
IQ.	Meeting local requirements does not necessarily indicate MDOT requirements have been met.) Digital copy of modeling program
Ш	(Required when computer application is used)
M	Input and output reports in .pdf format for the range of flows
	(Required when computer application is used)
	Water Quality
X	Applicant verifies that the discharge to MDOT's stormwater system will not cause a violation of MDOT's

National Pollution Discharge Elimination System stormwater discharge permit.

^{**} Failure of the applicant to submit all required materials may result in delays or rejection of the application. **

MDOT 2484 (01/18)

FOR THE COMBINED EXISTING PARKING (DRAINS TO STUTH END PARKING LET) Page 2 of 2
AND PROPOSED PARKING LET EXPANSICO (DRAIN TO MOST READS DE DITCH

Data Summary

	Existing flow to MDOT ROW		Proposed flow to MDOT ROW							
			Withg	out detenti	on	With required detention***				
Frequency	Discharge (cfs)	Run off Volume (cft)	Discharge (cfs)	Velocity * (ft/s)	Run off Volume (cft)	Discharge (cfs)	Velocity Americal Velocity Americal (fVs) Fale 1345/3 Velocity	Required Storage Volume** (cft)	Water Surface Elevation (ft)	
16-year Storm Event 2	2.73	7381			7,535	2.71	AL	(46)	903.9	
50⁴year Storm Event /ບ	3.95	10,861			11,049	3.84	Ala	188	904.1	
100-year Storm Event Harmful Interference Evaluation	6.65	18,672			19,263	6.18	MA	591	901.5	
Drainage Area (Acres)	1,7	20 Ae		*						
Design Storage Volume (cft)		N. S. Pal	3374			144		1,450		

Not applicable (N/A) if "sheet flow" into MDOT right of Way, or detention is proposed.

** Difference in volume between the proposed and existing conditions.

*** Not required if proposed discharge is less than or equal to the existing discharge without detention.

Certification

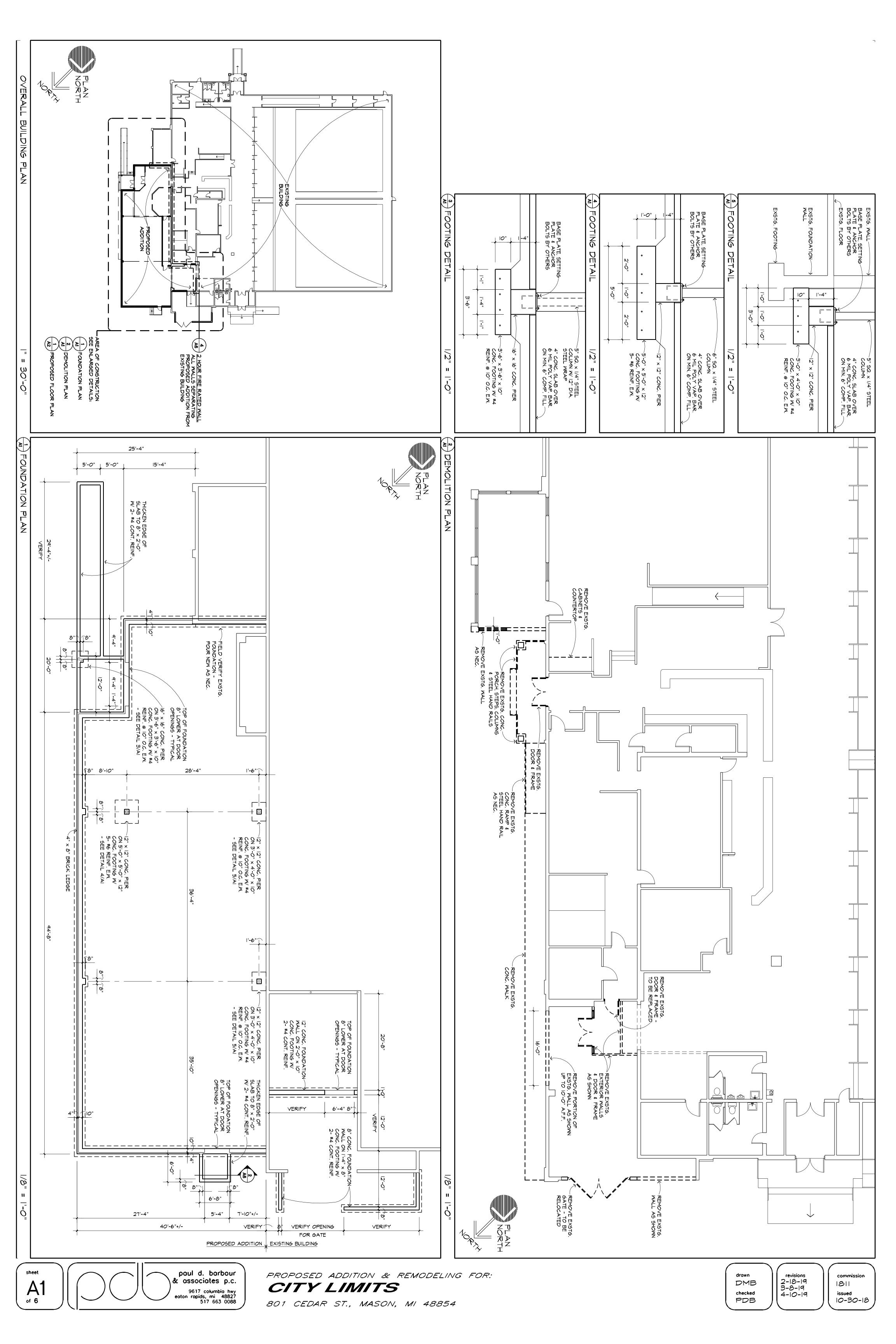
I (print your name) Kur R. Pearfull ,P.E., have prepared the attached plans and specifications for the proposed drainage system. The proposed outlet control from this drainage system is discharged at a flow rate equal to or less than the existing flow rate conditions into the MDOT stormwater conveyance system; the velocity discharged is properly dissipated; there exists sufficient storage on the permit applicant's property for all the range of flows summarized above, so that no harmful interference to MDOT ROW or adjacent properties will be caused as a result of utilizing this facility. This discharge to MDOT's stormwater system will not cause a violation of MDOT's National Pollution Discharge Elimination System stormwater discharge permit.

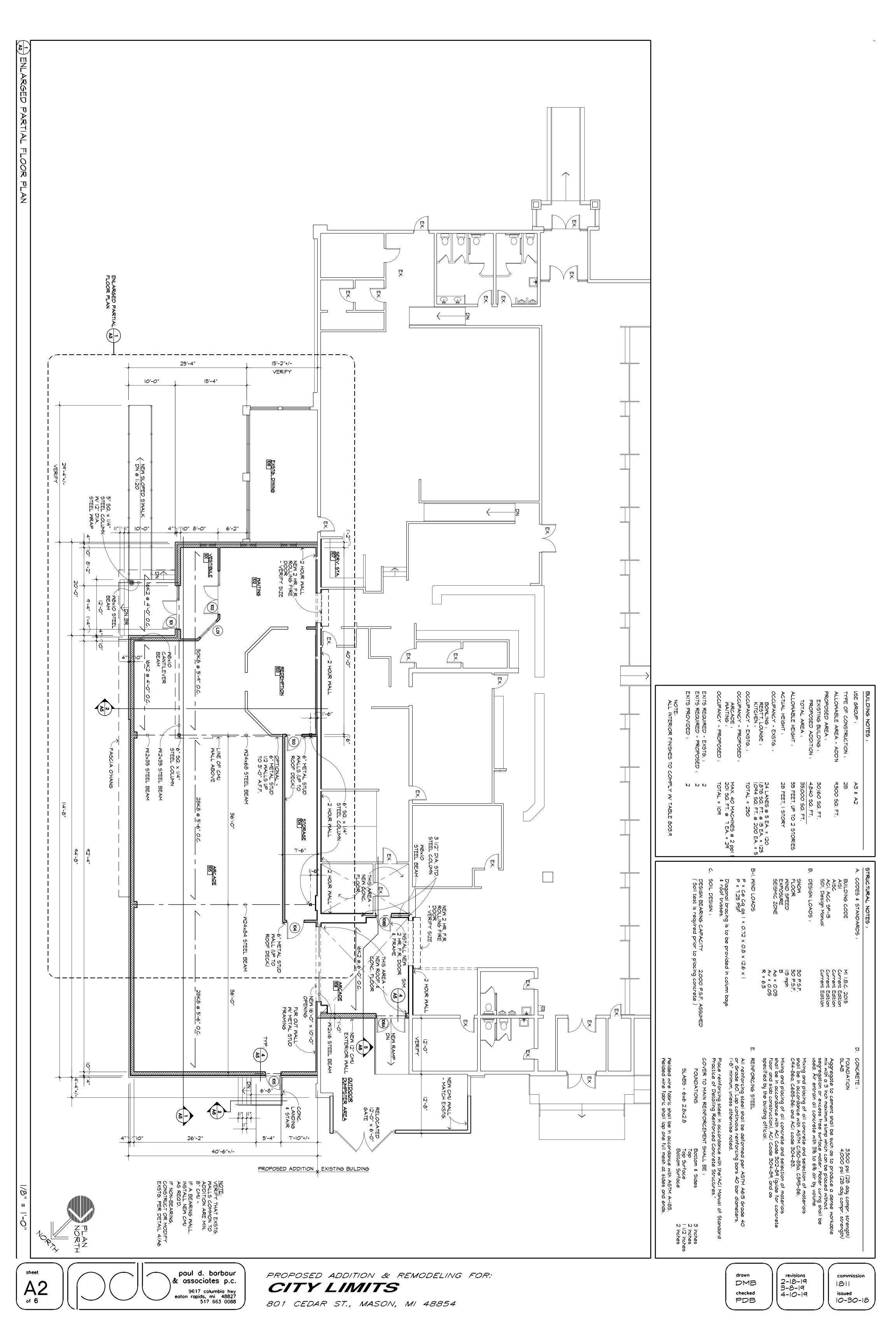


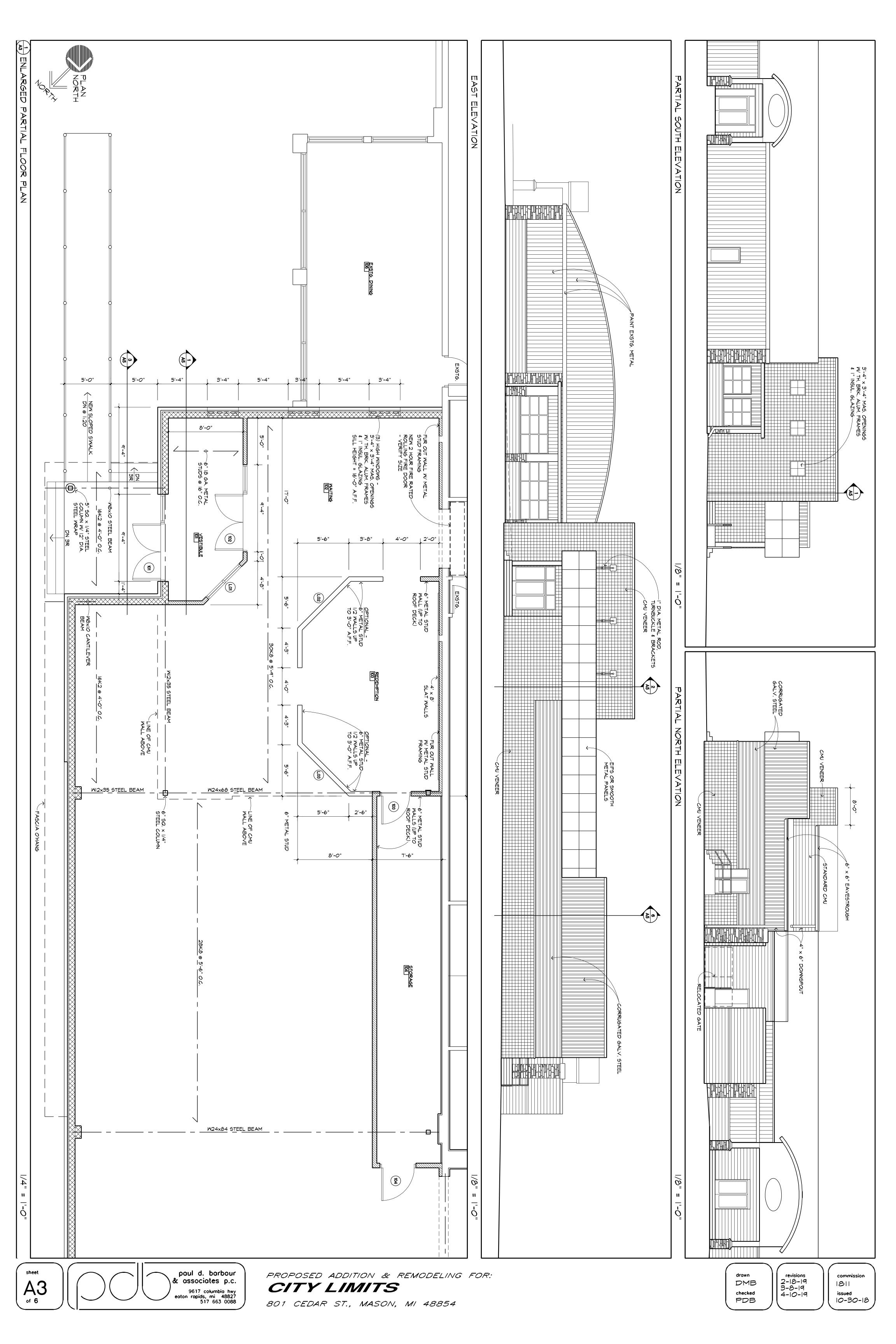
Signature: Kur Know , P.E. Michigan Professional Engineer License Number: 620/046794

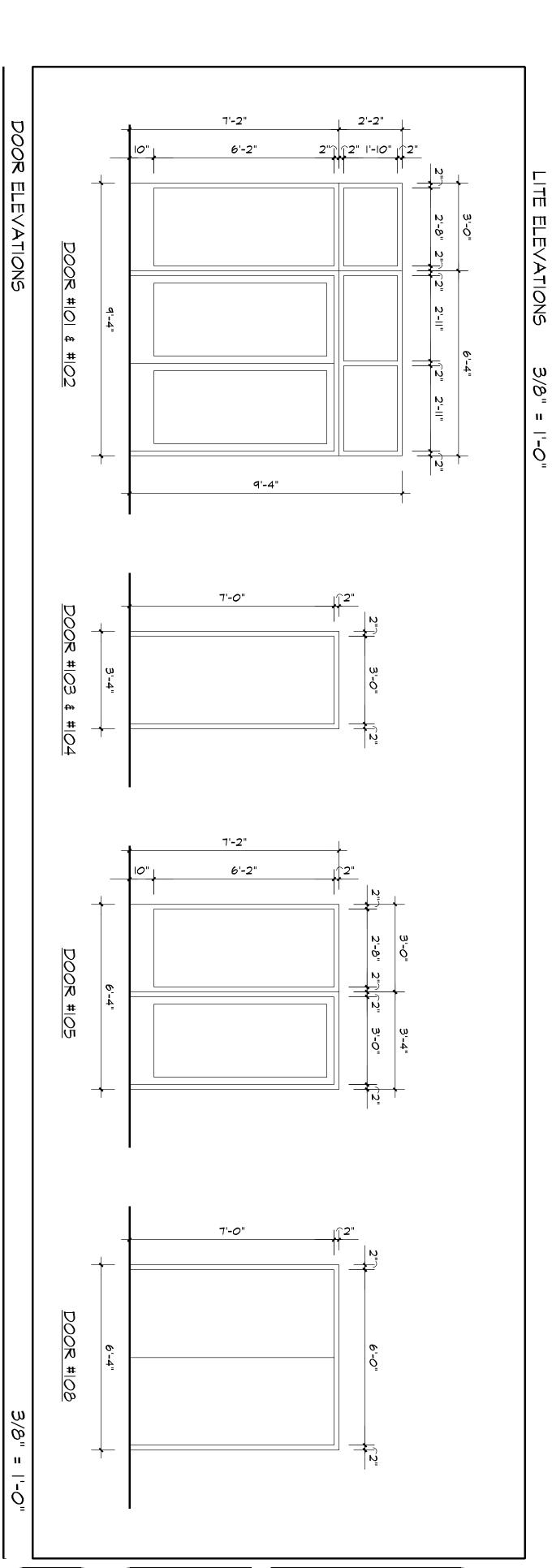
This document shall be sealed in the space provided to the left and submitted with the permit package.

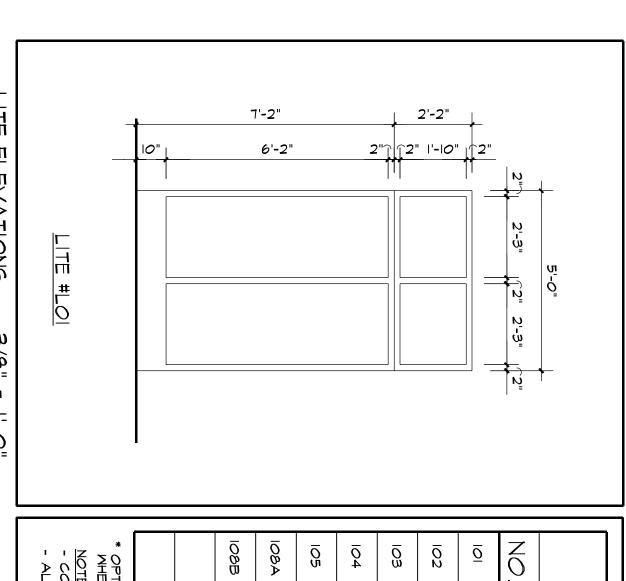
i.e. Required Storage Volume = Proposed Volume - Existing Volume, or (N/A) if Proposed Volume <= Existing Volume







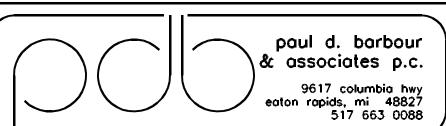




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	PAIR 3'-0" X 7'-0" W/ FULL & SIDE LITE	ALUMINUM/GLASS	ALUMINUM	LOCKSET/DEADBOLT/ PANIC	YES	
0.0	3'-0" × 7'-0"	HOLLOM METAL	BEDI METAL FRAME	LOCKSET	Ö	
	3'-6" × 7'-0"	HOLLOM METAL	REDI METAL FRAME	LOCKSET	Š	
J	3'-0" × 7'-0"	HOLLOM METAL	HOLLOM METAL	LOCKSET/DEADBOLT/ PANIC*	YES	
▶	PAIR 3'-0" X 7'-0"	HOLLOM METAL	HOLLAM MOTTOH	LOCKSET/DEADBOLT/ PANIC*	YES	
a	3'-0" X 7'-0" - 2 HOUR FIRE RATED	HOLLOM METAL	REDI METAL FRAME	PASSAGE	YES	- 2 HOUR FIRE RATED DOOR & FRAME
PTION	ION - PANIC HARDWAR N BUILDING IS OCCUPIE IS:	PTION - PANIC HARDWARE OR A SIGN IS REQUIRED ON THE EGRESS SIDE OF THIS DOOR STATING "THIS DOOR TO REMAIN UNLOCKED HEN BUILDING IS OCCUPIED". THE SIGN SHALL BE IN LETTERS I" HIGH ON A CONTRASTING BACKGROUND, COMPLYING W/ MDC 1008.1.9.3)TES:	O ON THE EGRESS SIDE C	ONTRASTING BACKGRO	THIS DOOR TO RE	EMAIN UNLOCKED W/ MDC 1008.1.9.3

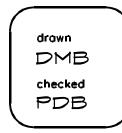
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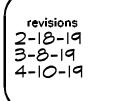
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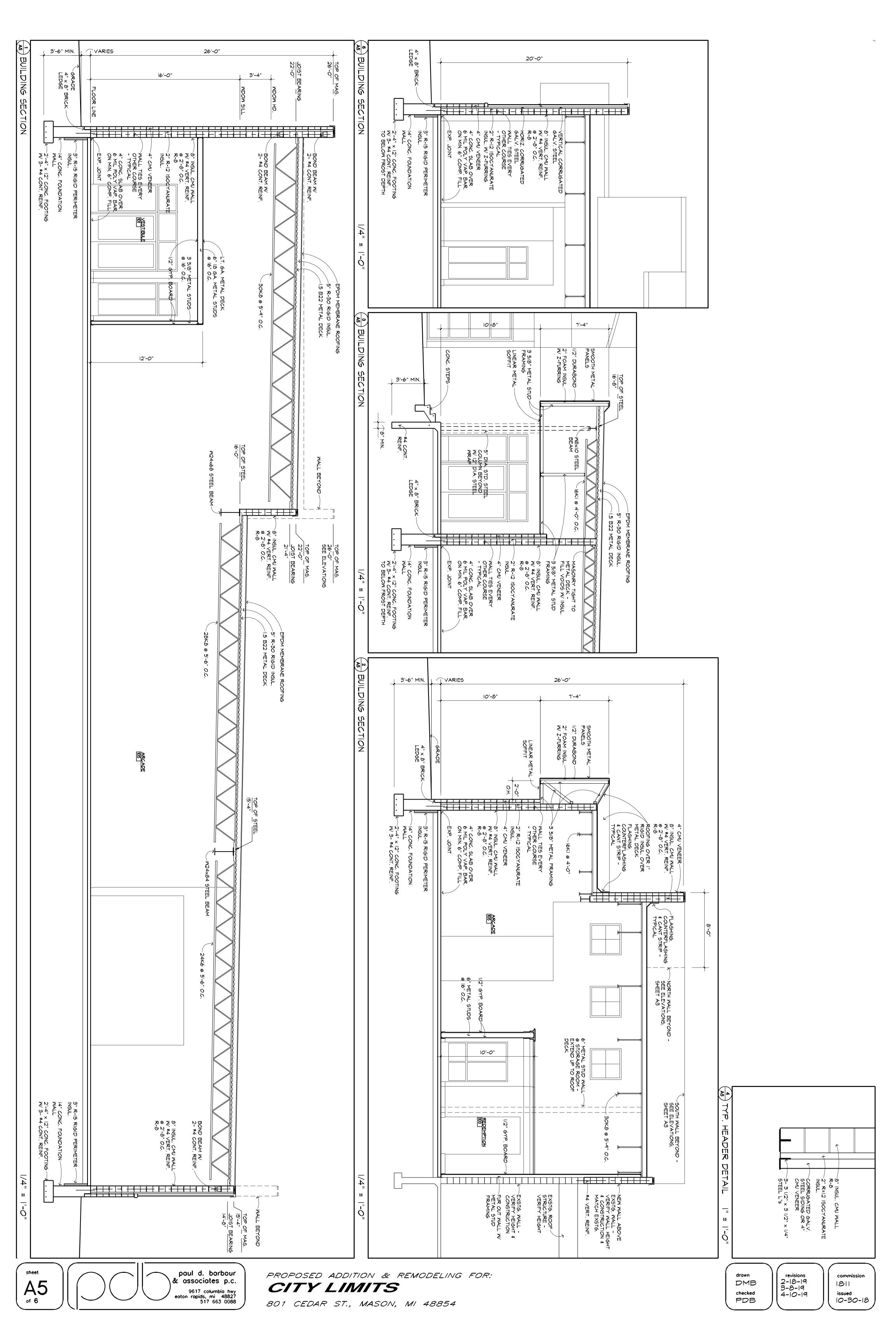
PROPOSED ADDITION & REMODELING FOR:

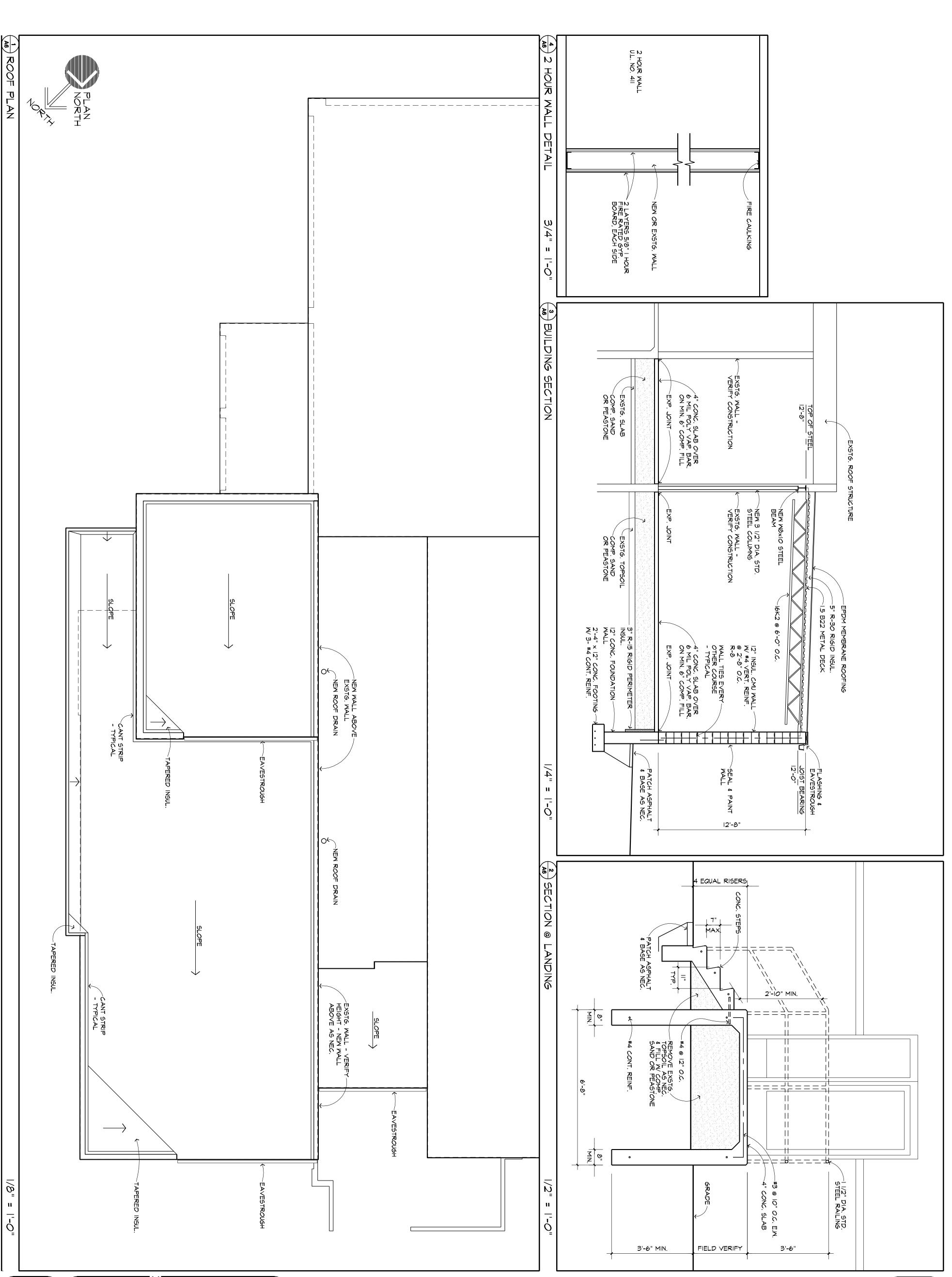
801 CEDAR ST., MASON, MI 48854



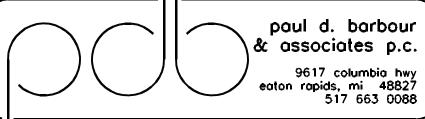








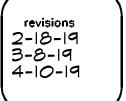
A6



PROPOSED ADDITION & REMODELING FOR:

801 CEDAR ST., MASON, MI 48854

drawn
DMB
checked
PDB





Patrick E. Lindemann

Ingham County Drain Commissioner

PO Box 220 707 Buhl Avenue Mason, MI 48854-0220

Phone: (517) 676-8395 Fax: (517) 676-8364 http://dr.ingham.org



Carla Florence Clos Deputy Drain Commissioner

Paul C. Pratt
Deputy Drain Commissioner

David C. Love Chief of Engineering and Inspection

> Sheldon Lewis Administrative Assistant

March 1, 2019

Elizabeth Hude, Zoning & Development Director Mason City Hall 201 West Ash Street P.O. Box 370 Mason, MI 48854

RE: Request for public comment – 801 N. Cedar, Mason

City Limits – 2019 Building and Parking Addition Conceptual Plan Review; Drain Office #19018

Dear Ms. Hude:

We are in receipt of a February19, 2019 request by the City of Mason for review of a proposed request for comment for an addition to the City Limits facility on the west side of Cedar Street.

This conceptual review is offered as a courtesy to the City of Mason only and should not be construed by the project owner or others as formal submission to the Ingham County Drain Commissioner for site plan or drainage review.

The Ingham County Drain Commissioner (ICDC) offers the City of Mason the following conceptual review comments on the stormwater system for this project:

- Site drainage from most of the property, except a small portion along Cedar Street, goes primarily to an open ditch area along the east side of the US-127 highway. The ditch water flows westerly across the highway through a culvert to a private ditch that becomes the Ocobock Drain, an enclosed County Drain nested in the Aurelius and Vevay Drain Drainage District.
- A smaller portion of the drainage from the front of the property goes to an MDOT ditch on the west side of Cedar Street that flows westerly to the MDOT pipe along the east side of US-127.
- 3. A Permit must be obtained from MDOT for permission to flow an additional volume across the US-127 highway.
- 4. The plans must be submitted to the Drain Commissioner's Office for Site Plan and Drainage Review and approval and for Soil Erosion Control Permit evaluation. Fees and application are found on the Ingham County Drain Commissioner's web site.

We appreciate the opportunity to comment on this plan. It is an honor and a privilege to serve you and the other businesses, citizens and municipalities of Ingham County.

Sincerely,

David C. Love

Ingham County Drain Engineer

CC:

Jim Cicorelli, Leisure Tyme, LLC Kurt Krahulik, P.E., DC Engineering



City of Mason Planning Commission

Staff Report

TO: Planning Commission

FROM: Elizabeth A. Hude, AICP - Community Development Director

SUBJECT: Site Plan Review – 118 W. Oak St.

DATE: May 9, 2019

David Meredith, WCH LLC, has requested Final Site Plan approval for the change of use on the first floor of an existing building located at 118 W. Oak St, formerly known as the old school administration building. The first floor will include the existing Food Bank and proposed new use of space as an arcade and an escape room. The second floor will remain as office space.

City Council adopted Ordinance 226 on March 18, 2019 which re-zoned the parcel from an O1 Office District to C-1 (Central Business District). The building is also located within the Historic District. Section 94-222 states that any use within the C-1 zoning district requires final site plan review. Staff finds that the proposed arcade and escape room are commercial indoor recreational uses consistent with the type of use allowed by right in Sec. 94-141 (13) Public assembly buildings, indoor theaters, and auditoriums.

Further, the proposed uses meet the City's Master Plan Objective #4 for Commercial Development – Encourage commercial development in the downtown area to be of a retail, office and entertainment character to draw people and improve economic vitality.

The new use does increase the number of required off-street parking spaces by more than two, which triggers the need for Planning Commission review per Sec. 94-223(2). Otherwise, as a use allowed by right with no expansion of the building footprint, this would have qualified for Administrative approval.

No changes are currently proposed to the exterior of the building and therefore Historic District Commission (HDC) approval is not required at this time. If the exterior of the building is cleaned, painted, architecturally modified including lighting, or if a sign is proposed, the work will be subject to the requirements of Chapter 31 – Historic Preservation and/or Chapter 58 – Signs.

LAND USE/ZONING/MASTER PLAN:

The site is located and fronts on West Oak Street, a local roadway. The surrounding land uses and zoning are as follows:

	Current Land Use	Zoning	Future Land Use
North	Commercial	C-1 (Central Business District)	Commercial
East	Commercial	C-1 (Central Business District)	Commercial
South	Residential	RM (Multiple Family Residential District)	Residential
West	Residential	01 Office District	Residential

SITE PLAN REVIEW:

The following sections address compliance with site plan requirements. The following comments are provided based upon the plan dated April 16, 2019.

Height, Bulk, Density, and Area Requirements:

As no changes to the structure footprint are proposed, the plan appears to the meet the building height, setbacks and lot coverage site development standards listed in Section 94-121(c) and Table 100-1.

Circulation, Loading and Off-Street Parking

Circulation

The proposed building is adequately served by infrastructure that supports the safe and orderly circulation of motorized and non-motorized traffic - it fronts onto a three-lane public right of way supporting two lanes for bi-directional traffic, one lane of angled on-street parking and a sidewalk. CATA route #46 is available on Jefferson St.

Loading

There shall be no requirement of loading or unloading space in the C-1 district for property with direct access to an alley. (§94-293(c))

The site currently has direct access to an alley and therefore is exempt from the loading space requirement.

Off-Street Parking

§94-292(h)(1) Uses in the C-1 district states that there shall be no off-street parking space requirements in the C-1 district for those uses which require 20 or less off-street parking spaces. Uses requiring more than 20 off-street parking spaces shall have their parking requirement determined by the planning commission. In making such a decision, the planning commission shall consider the availability of both public and private parking spaces.

Based upon the requirements of Table 100-5 Parking space requirements, 62 parking spaces are required to support the existing and proposed uses in the development. A minimum of one of the parking spaces is to be barrier free in in accordance with the Americans with Disabilities Act (ADA). This is detailed in the parking calculation (Table 1) below. The applicant is providing ten private parking spaces in the existing parking area. The spaces will meet the minimum standard size of 10'x20' with a minimum 24' travel lane for two-way traffic.

The plan indicates 11 parking spaces, however, the space adjacent to the alley on the north contains a dumpster. Staff recommends approval with the <u>condition</u> that this will be revised on the plan submitted with the building permit. The dumpster is required to be screened in accordance with Sec. 94-173(b).

Staff finds that there appears to be sufficient parking available in the surrounding public lots and onstreet spaces to accommodate the proposed uses and recommends that the planning commission modify the number of required spaces to 10 based upon the following facts:

1. A parking study was completed as part of a 2009 Downtown Marketing Analysis by McKenna Associates recommending a calculation of 3.23 for 1,000 sq. ft. of useable floor area. The study states that based upon the total building floor area in downtown, which would take into

- consideration the existing site, demand is for 380 spaces total. Factoring in the available private parking lots associated with many of the buildings, this results in a parking surplus of approximately 240% +/- in downtown Mason.
- 2. The applicant is not increasing the building footprint but instead converting existing usable floor area from office space to an indoor recreation use as an arcade and an escape room.

Table 1 – Parking Requirements

		5 11 ///54	<u> </u>	
Use	UFA	Parking/UFA	Customer	Customer
	(per applicant)		Parking Req.	Parking
				Proposed
First Floor Arcade	3608	1 per 100 sq. ft. UFA	37	Adjacent public
and Escape Room		in main meeting		lot at City
		room or club room		Hall/on-street
First and	1632		9	Adjacent public
Second Floor Office	3096		16	lot/on-street
	Total Required		62	
Allowance for us	es in the C-1 District	20	20	
Park	ing provided on-site		10	
Barrier-	free spaces required	1-2	(1)	
UFA = Useable Floor Are	a			

Landscaping

The site is built to the property line by pre-existing building and parking. While no landscape buffer is required as this is in a C-1 district, there is a requirement for landscaping in off-street parking lots. No additional landscaping is proposed on the lot or in the parking area. There is an existing fence and natural screening on the adjacent residential lot.

Staff recommends granting a waiver from the Sec. 94-241 and specifically Sec. 94-241(i)(1)a.1.

- Off-street parking areas containing six or more parking spaces shall be provided with landscaping in accordance with the following:
 - 1. Six through 50 spaces: One canopy tree and 50 sq. ft. of landscaped area per six spaces.

Signs

The site plan does not propose a new or expanded sign located within the property. If any new signage is to be located on the site it will be subject to the requirements of Chapter 58 of the Zoning Ordinance and Chapter 31 – Historic Preservation.

Site Lighting

No changes proposed. During a site visit staff noted very few lights on the building and that the large floodlight on the west side of the building made a loud buzzing noise. The existing lighting may have been sufficient for office use, primarily a day time use, however, given that the arcade and escape room hours go later into the evening. The police department suggests adding lighting to the building and parking area for safety and security. Lighting changes are subject to Historic District Commission review per Chapter 31 Historic Preservation.

Staff recommends removing the existing flood light and replacing it with one that does not emit noise and is shielded down per the standards for lighting in Sec. 94-177(e). Staff recommends approval with the <u>condition</u> that a lighting plan reflecting updated and additional lighting with photometrics will be submitted with the building permit application and in accordance with Sec. 94-177(e) Light and Sec. 94-227 Standards for site plan review and approval.

Water and Sanitary Sewer

The site is served by city water and sewer. No new services are proposed for this project.

Storm Water Management

No changes proposed.

Agency Comments:

Staff met with Police, Fire and Department of Public Works on April 30.

Police	Add lighting to the building for safety and security
Fire	No concerns; interior to meet State Construction Code for fire suppression
	and egress
DPW	Fix drain spilling into the right of way on northside of the building, creates
	unsafe condition including ice in winter; black soot on west side of the
	building should be addressed. (see pics below)





REVIEW CRITERIA:

It appears that the site and proposed use will comply with the site plan review standards listed in Section 94-227 of the Code.

Site Plan Review Standards Sec. 94-227:

In reviewing an application for site plan review and approval the following standards shall apply:

- (1) The site shall be developed so that all elements shall be harmoniously and efficiently organized in relation to the size, shape, type and topography of the site and surrounding property.
- (2) The site shall be developed so as not to impede the normal and orderly development, improvement, and use of surrounding property for uses permitted in this chapter.
- (3) All buildings or groups of buildings shall be arranged to permit emergency vehicle access by some practical means to all sites.
- (4) Every structure or dwelling unit shall have direct access to a public street or indirect access to a public street via an approved dedicated private street.
- (5) Appropriate measures shall be taken to ensure that the addition or removal of surface waters will not adversely affect neighboring properties that controls are in place to minimize sedimentation

- and erosion, and that topographic alterations are minimized to accommodate storm water management.
- (6) Provisions shall be made for the construction of storm sewer facilities including grading, gutters, piping, on-site storage, and treatment of turf as required to handle storm water and prevent erosion.
- (7) Secondary containment for above ground areas where hazardous substances are stored or used shall be provided as required by the city fire chief.
- (8) Exterior lighting shall be designed and located so that the source of illumination is directed away from adjacent properties, the intensity of lighting is the minimum necessary, and the direction of lighting is downward as much as is possible and appropriate for the project.
- (9) All loading and unloading areas, outside storage areas, and refuse receptacles shall be screened from casual view from the public rights-of-way and adjoining land uses.
- (10) Site plans shall meet the driveway, traffic safety, and parking standards of the city in such manner as necessary to address the following:
 - a. Safe and efficient vehicular and non-vehicular circulation, including parking areas, non-motorized linkages to abutting parcels, uses, sidewalks, and trails.
 - b. Shared driveways and service drives.
 - c. Adequate and properly located utilities.
- (11) Provisions shall be made for proposed common areas and public features to be reasonably maintained.
- (12) The site plan submittal shall demonstrate compliance with all applicable requirements of this chapter, chapters 58 and 74, the building code, and county, state, and federal law.

STAFF RECOMMENDATION:

With the findings and analysis described above, the following action is recommended for consideration by the Planning Commission:

The Planning Commission approve Resolution No. 2019-05.

Attachments:

- 1. Resolution
- 2. Application
- 3. Site Plan

CITY OF MASON PLANNING COMMISSION RESOLUTION No. 2019-05

APPROVAL OF FINAL SITE PLAN ON PROPERTY LOCATED AT 118 W. OAK

May 14, 2019

WHEREAS, a request has been received from David Meredith to review parking requirements for the intended use of an arcade; and

WHEREAS, the proposal was shown on plans dated March 4, 2019; and

WHEREAS, the subject property is further described as 118 W. Oak; and

WHEREAS, the parcel is zoned C-1 (Central Business District); and

WHEREAS, Section 94-222 states that any use within the C-1 zoning district requires site plan review; and

WHEREAS the Planning Commission accepts the staff report dated May 9, 2019 as finding of fact that with the following waivers and conditions listed herein, the plans will comply with the Final Site Plan Review Standards listed in Section 94-227 of the Mason Code with the following conditions:

- Plans will be revised to reflect 10 on-site parking spaces and a screened dumpster in the northern most space that meets the requirements of Sec. 94-173(b); and
- Plans will be revised to reflect updated and additional lighting on the building in accordance with Sec. 94-177(e) Light and Chapter 31 Historic Preservation; and
- The drain spilling into the right of way will be corrected to the satisfaction of the DPW, Building Official, and Zoning Official; and
- The façade will be cleaned and the source of the black soot corrected to the satisfaction of the DPW, Building Official, and Zoning Official and in accordance with the requirements of Chapter 31 Historic Preservation; and further,
- The Planning Commission finds that as no new parking is being created, the site is adjacent to a landscape buffer to the west, adjacent to two rights of way on the north and south, a parking lot and building to the east, a requirement for additional landscaping is excessive

NOW THEREFORE BE IT BE RESOLVED, that the Mason Planning Commission does hereby approve a Final Site Plan for the change of use on the first floor of an existing building located at 118 W. Oak Street to include an arcade and escape room with the following waivers and conditions:

- Landscaping requirements as stated in Sec. 91-241 are waived; and
- Plans will be revised to reflect 10 on-site parking spaces and a screened dumpster in the northern most space that meets the requirements of Sec. 94-173(b); and
- Plans will be revised to reflect updated and additional lighting on the building in accordance with Sec. 94-177(e) Light and Chapter 31 Historic Preservation; and
- The drain spilling into the right of way will be corrected to the satisfaction of the DPW, Building Official, and Zoning Official; and
- The façade will be cleaned and the source of the black soot corrected to the satisfaction of the DPW, Building Official, and Zoning Official and in accordance with the requirements of Chapter 31 Historic Preservation; and further; and
- The hours of operation will not extend past 9:00 p.m. Monday through Thursday, not past midnight (12:00 a.m.) Friday and Saturday, and not past 8:00 p.m. on Sunday.

Yes ()		
No ()		
Absent	()
Vacant	()

CLERK'S CERTIFICATION: I hereby certify that the foregoing is a true and accurate copy of a resolution adopted by the Planning Commission at its meeting held Tuesday, May 14, 2019, the original of which is part of the City of Mason Planning Commission minutes.

Sarah J. Jarvis, Clerk City of Mason Ingham County, Michigan

MASON

<u>APPLICATION – SITE PLAN REVIEW/SPECIAL USE PERMIT</u>

City of Mason

Planning Department • 201 W. Ash Street • Mason, MI 48854 Phone: 517/676-9155 • Fax: 517/676-1330

www.mason.mi.us

	The state of the s
Applicant– Please check one of the following:	PLANNING DEPARTMENT USE ONLY
Preliminary Site Plan Review	Application Received:
Final Site Plan Review	Tax ID:
Special Use Permit*	Fee:
Administrative Review	Receipt #:
* includes Preliminary Site Plan Review	
	Which one do you want checked
I. <u>APPLICANT INFORMATION</u>	Willich one do you want checked
NameDavid Meredith	
Organization WCH LLC	
Address 480 Promec. Dr., Grand	Ledge, MI 48837
Telephone Number517-627-8532	Facsimile Number517-627-2562
Interest in Property (owner, tenant, option, etc.)	
	, request must be accompanied by a signed letter of
authorization from the owner.	
II. PROPERTY INFORMATION	
Owner David Meredith	Telephone Number 517-627-8532
Property Address 118 W. Oak St., Mas	on, MI 48854
	Name Lot Number
	heet):
APPLICANT CE	RTIFICATION
By execution of this application, the person signing repres	ents that the information provided and the accompanying
documentation is, to the best of his/her knowledge, true and he or she is authorized and does hereby grant a right or	accurate. In addition, the person signing represents that
premises and uses thereon to verify compliance with the te	rms and conditions of any Special Use Permit and/or Site
Plan approval issued as a result of this application.	10.01.0010
Signature	Date

III. REQUEST DESCRIPTION

A. <u>Written Description</u> – Please use this section to describe the use or uses proposed. Attach additional pages, if necessary.

New tenant would like to have an "Escape Rooms" on the 2nd floor.

An Arcade for kids on the 1st floor while parents are in the Escape Room.

B. Available Services

Paved Road (Asphalt or Concrete) X YES D NO Public Storm Sewer Not sure D YES D NO

C. Estimate the Following

Traffic Generated Not sure

Population Increase Not sure

Hours of Operation See attached pM
spreadsheet day

Total Employees 4-6 Shifts 1st&2nd

Employees in Peak Shift 2

Total Bldg. Area Proposed see drawings

Parking Spaces Provided see drawings

D. Project Phasing

This project will be completed in:

M One Phase

Multiple Phases – Total No. of Phases:

Note: The phases of construction for multi-phase projects must be shown on the site plan

IV. APPLICATION MATERIALS

How many copies?

The following are checklists of items that generally must be submitted with applications for Prelimi Review, Final Site Plan Review, and Special Use Permits. Applicants should review Articles VI and VII or Chapter 94 of the Mason Code for a complete listing of application requirements. All site plan drawings must comply with the requirements of Section 94-226(d) of the Zoning Ordinance. Incomplete applications will not be processed.

- ★ Completed application form
- 20 copies of site plan drawings is larger than 11" x 17" (30 copies for Special Use Permits)
- $\mathbf{N} = 1 11$ " x 17" copy of the site plan
- M Plans submitted on CD (Commercial only) Flash Drive
- ★ Legal description
- □ Construction schedule for proposed project
- Construction calculations for utilities
- X Fee (see below)
- Any other information deemed necessary

<u>Application Fee</u> – all requests must be accompanied by a fee, as established by the City Council. The fee schedule for Preliminary Site Plan Reviews, Final Site Plan Reviews, and Special Use Permits is as follows (As of October 16, 2006):

Administrative Reviews	\$70.00
Preliminary Site Plan Reviews	\$200.00
Final Site Plan Review	\$100.00
Special Use Permits (includes preliminary site plan review)	\$275.00
Engineering Review	\$220.00*

^{*}Two-hour minimum fee for projects increasing demand on public utilities. Actual fees incurred are billed to applicant upon completion of review.

Application: Site Plan Review/Special Use Permit - Page 2 of 3

V. APPLICATION DEADLINES

<u>Preliminary Site Plan/Special Use Permit Review</u> – Applications for Preliminary Site Plan Review may be submitted at any time. Complete applications must be received a minimum four (4) weeks prior to a Planning Commission meeting to be placed on the agenda. Upon receipt of a complete application, a public hearing will be scheduled for the next regularly scheduled meeting (for Special Use Permits only). The Planning Commission has the final authority to approve, approve with conditions or deny an application for Preliminary Site Plan/Special Use Permit Review. The Planning Department staff will issue a letter to the applicant advising of any changes or revisions that may be necessary prior to making application for Final Site Plan Review.

<u>Final Site Plan Review</u> – Complete applications must be received a minimum of four (4) weeks prior to a Planning Commission meeting to be placed on an agenda. The Planning Commission has the final authority to approve, approve with conditions or deny an application for Final Site Plan Review. Planning Commission meetings are held on the second Tuesday after the first Monday of every month, unless the Tuesday is a Township recognized holiday, in which case the meeting is held on the following day (Wednesday).

VI. STAFF REPORT

The Planning Department Staff will prepare a report to the Planning Commission regarding an application for Preliminary Site Plan Review, Final Site Plan Review or Special Use Permit. The report will explain the request and review whether it complies with the zoning standards of the Mason Code. Staff will present the findings of that report during the Planning Commission meeting. An applicant who wishes to obtain one (1) copy of that report, at no cost, prior to the meeting must provide a written request to the Planning Department. The report is generally complete on the Friday before the meeting and can be mailed to the applicant or picked up by the applicant in the Planning Department.

Application: Site Plan Review/Special Use Permit – Page 3 of 3

CITY OF MASON P.O. BOX 370 201 W. ASH ST. MASON MI 48854-370 Phone : (517) 676-9155 WWW.MASON.MI.US

Received From: WCH OF MICHIGAN PO BOX 513 GRAND LEDGE MI 48837

Date: 03/05/2019

Time: 3:07:43 PM

Receipt: 100244356

Cashier: KM

118 W OAK REZONING

ZONING PERMIT - SITE PLAN REVIEW

ITEM REFERENCE

AMOUNT

PERBUS PERMIT-VARIOUS BUS LICENSE & PERMIT S

REZONING

\$300.00

PERBUS PERMIT-VARIOUS BUS LICENSE & PERMIT

ZONING PERMIT - SITE PLAN REV \$100.00

TOTAL \$400.00

CHECK 002160

\$300.00

CASH

\$100.00

Total Tendered:

\$400.00

Change:

\$0.00

Summer 2018 CITY OF MASON

MESSAGE TO TAXPAYER

INTEREST ADDED SEPTEMBER 1ST. POSTMARKS DO NOT COUNT. CREDIT CARDS ACCEPTED ON OUR WEBSITE WWW.MASON.MI.US

PLEASE READ REVERSE SIDE OF STATEMENT

PAYMENT INFORMATION

This tax is due by: 08/31/2018

CITY OF MASON Pay by mail to:

PAUL BORLE, TREASURER 201 W. ASH ST. PO BOX 370

MASON, MI 48854-0370

PROPERTY INFORMATION

Property Assessed To: WCH OF MICHIGAN LLC 480 PRO-MEC DR. GRAND LEDGE, MI 48837

MASON PUBLIC School: 33130

Prop #: 33-19-10-08-240-019

Prop Addr: 118 W OAK

Legal Description:

LOTS 7 & 8 BLK 16, SEC 8 T2N R1W CITY OF MASON, INGHAM, CO

TAX DETAIL

COMM-IMPROVED 134,501 Taxable Value: Class: 201 140,010 State Equalized Value: DDA 0.0000 PRE/MBT %:

Mort Code:

Taxes are based upon Taxable Value. 1 mill equals \$1.00 per \$1000 of Taxable Value. Amounts with no millage are either Special Assessments or other charges added to this bill.

ASSESSME		TA A CONTRACTION
	MILLAGE	AMOUNT
ESCRIPTION	15.25000	2,051.14
CITY TAX	5.99870	806.83 512.07
INGHAM ISD	3.80720	807.00
STATE ED FUND	6.00000 17.93880	2,412.78
MPS OPERATING COUNTY	6.80000	914.60

Date Received: 7-3-19
GL Account:

Total Tax Administration Fee

55.79470

7,504.42 54.53

TOTAL AMOUNT DUE

7,558.95

OPERATING FISCAL YEARS

The taxes on bill will be used for governmental operations for the following fiscal year(s):

01/01/18 - 12/31/18 07/01/18 - 06/30/19 County: Twn/Cty: 07/01/18 - 06/30/19 School:

10/01/18 - 09/30/19 Does NOT affect when the tax is due or its amount



Including Rec Time Arcade & Escape Ingham County Escape Room

Normal Business Hours

Day Hours of Operation
Monday - Thursday 2:30pm - 9:00pm
Friday 2:30pm - 12:00am
Saturday 10:00am - 12:00am
Sunday 10:00am - 8:00pm

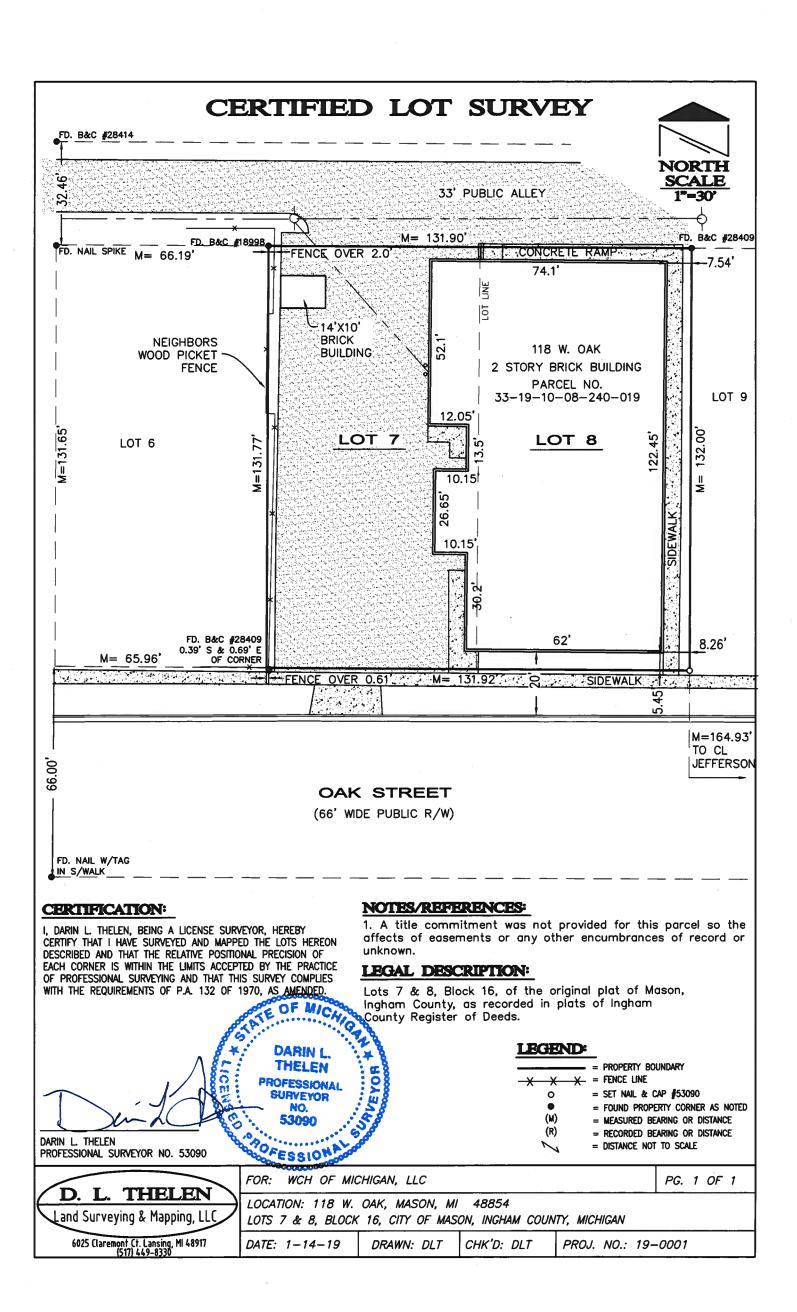
Holidays, Spring Break, Summer Break

 Monday - Thursday
 10:00am - 9:00pm

 Friday
 10:00am - 12:00am

 Saturday
 10:00am - 12:00am

 Sunday
 10:00am - 8:00pm



2.0 PROPERTY INFORMATION

2.1 Legal Description of Parcels

The subject site is comprised of two rectangular lots (7 and 8) that form one legal parcel with the following tax identification number: 33-19-08-240-010. The parcel has the following legal description:

Lots 7 and 8 of Block 16, Section 8, Township 2 North, Range 1 West, City of Mason, Ingham County.

2.2 Survey Map Information

Figure 1 is site map that depicts the legal survey property boundaries and tax identification number of the parcel that comprises the subject site. Appendix D contains a plat map that depicts the dimensions of the subject site.

2.3 Site Map and Plan

Figures 2 and 3 are site maps that depict the site structures.

2.4 Area Map

Figure 4 is a site location map that depicts the subject site in relation to the surrounding area.

2.5 Property Address

The street address of the subject site is: 118 W. Oak Street, Mason, Michigan 48854.

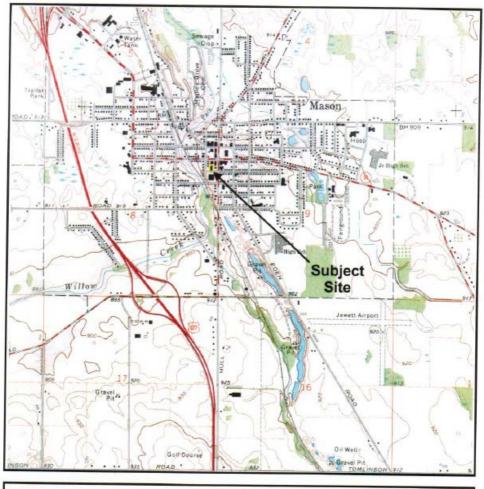
2.6 Location Information

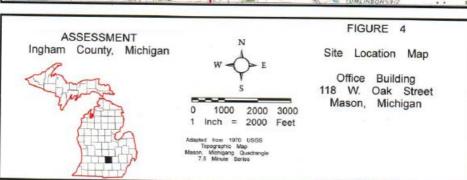
The subject site sits on the north side of W. Oak Street midway between Jefferson Street (east) and Park Street (west), in the central business district of Mason. The subject site has the coordinates of Township 2 North, Range 1 West, NE ¼ of the SE ¼ of the NE ¼ of Section 8. The subject site is at latitude N42.57822° and longitude W84.44411°. The latitude and longitude coordinates were obtained from global positioning system (GPS) and correspond to the entrance to the subject site off of Oak Street.

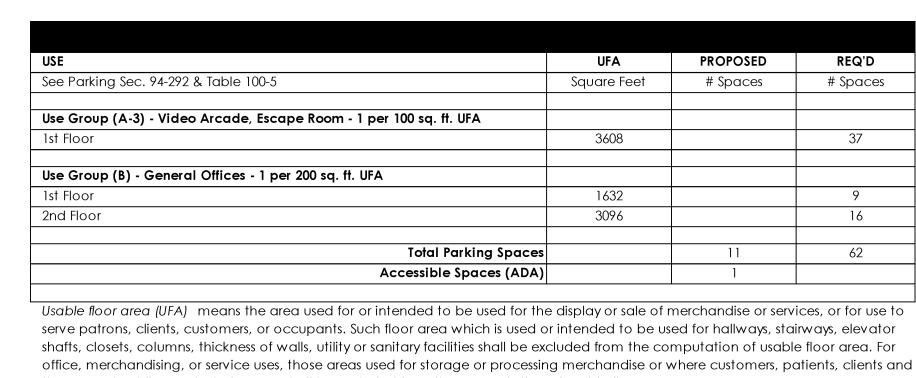


Parcel ID:33-19-08-240-010

118 W. Oak Street City of Mason Ingham County, Michigan







serve patrons, clients, customers, or occupants. Such floor area which is used or intended to be used for hallways, stairways, elevator shafts, closets, columns, thickness of walls, utility or sanitary facilities shall be excluded from the computation of usable floor area. For office, merchandising, or service uses, those areas used for storage or processing merchandise or where customers, patients, clients and the general public are denied access shall be excluded from the computation of usable floor area. Measurement of usable floor area shall be the sum of the horizontal areas of each story of a structure measured from the internal

faces of the exterior walls.

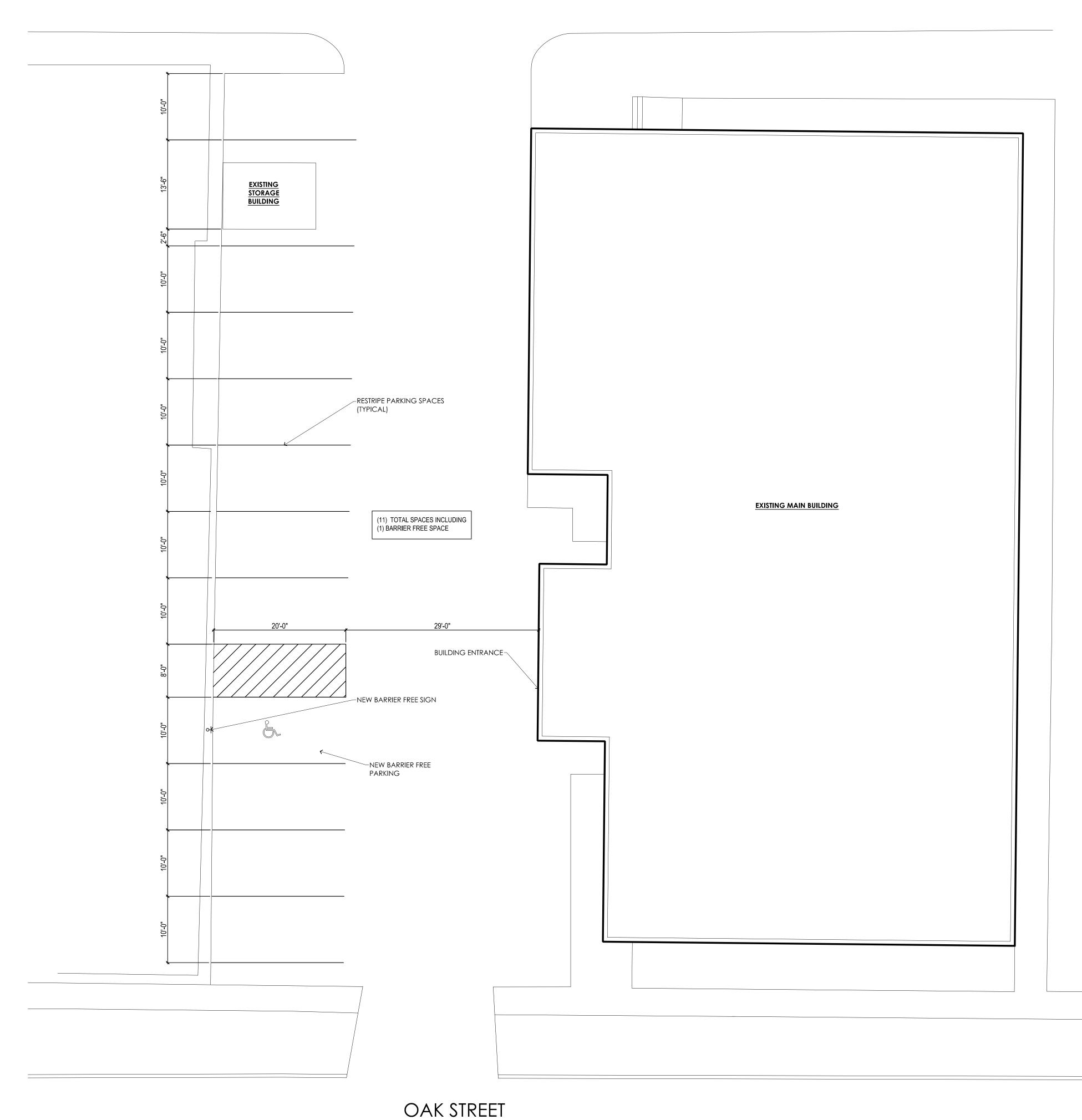
SITE PLAN SCALE: 1/8" = 1'-0" Str

KMEarchite Grand Ledge, MI p. 517.896.6011 e. kmearchitecture@gmo

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04.16.19 bids & construction



CODE DATA:

A-3 & B (FIRST LEVEL) USE GROUP: B (SECOND LEVEL)

CONSTRUCTION TYPE:

OCCUPANT LOAD

FIRST LEVEL ARCADE (A-3)

186 OCCUPANTS ESCAPE ROOM (A-3) 27 OCCUPANTS

31 OCCUPANTS

BUILDING AREA: FIRST LEVEL - 8,550 SF SECOND LEVEL - 4,400 SF

2015 MICHIGAN BUILDING CODE

SECTION 508 MIXED USE AND OCCUPANCY

508.2 Accessory occupancies. Accessory occupancies are those occupancies that are ancillary to the main occupancy of the building or portion thereof. Accessory occupancies shall comply with the provisions of Sections 508.2.1 through 508.2.4

508.2.1 Aggregate accessory occupancies shall not occupy more than 10% of the building area of the story in which they are located and shall not exceed the

508.2.2 Occupancy classification. Accessory occupancies shall be individually classified in accordance with Section 302.1. The requirements of this code shall apply to each portion of the building based on the occupancy classification of that space.

SECTION 903 AUTOMATIC SPRINKLER SYSTEMS

903.2.1.2 Where required Group A-3. An automatic sprinkler system shall be provided for Group A-3 occupancies were one of the following conditions exists:

- 1. The fire area exceeds 12,000 square feet
- 2. The fire area has an occupant load greater than 300 or more.
- 3. The fire area is located on a floor other than a level of exit discharge serving such occupancies

SECTION 1007 ACCESSIBLE MEANS OF EGRESS

1007.1 Accessible means of egress required. Accessible means of egress shall comply with this section. Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress is required by Section 1015.1 or 1019.1 from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress.

- 1. Accessible means of egress are not required in alterations to existing buildings.
- 2. One accessible means of egress is required from an accessible mezzanine level in accordance with Section 1007.3, 1007.4 or 1007.5.
- 3. In assembly spaces with sloped floors, one accessible means of egress is required from a space where the common path of travel of the accessible route for access to the wheelchair spaces meets the requirements in Section 1025.8.

1007.2 Continuity and components. Each required accessible means of egress shall be continuous to a public way and shall consist of one or more of the following components:

- 1. Accessible routes complying with Section 1104.
- 2. Stairways within vertical exit enclosures complying with Sections 1007.3 and 1020.
- 3. Exterior exit stairways complying with Sections 1007.3 and 1023.
- 4. Elevators complying with Section 1007.4.
- 5. Platform lifts complying with Section 1007.5.
- 6. Horizontal exits complying with Section 1022.
- 7. Ramps complying with Section 1010.
- 8. Areas of refuge complying with Section 1007.6.
 - Exceptions:
- 1. Where the exit discharge is not accessible, an exterior area for assisted rescue must be provided in accordance with Section 1007.8.
 - 2. Where the exit stairway is open to the exterior, the accessible means of egress shall include either an area of refuge in accordance
- with Section 1007.6 or an exterior area for assisted rescue in accordance with Section 1007.8.

SECTION 1008 DOORS

1008.1.1 Size of doors. The minimum width of each door opening shall sufficient for the occupant load thereof and shall provide a clear width of 32 inches.

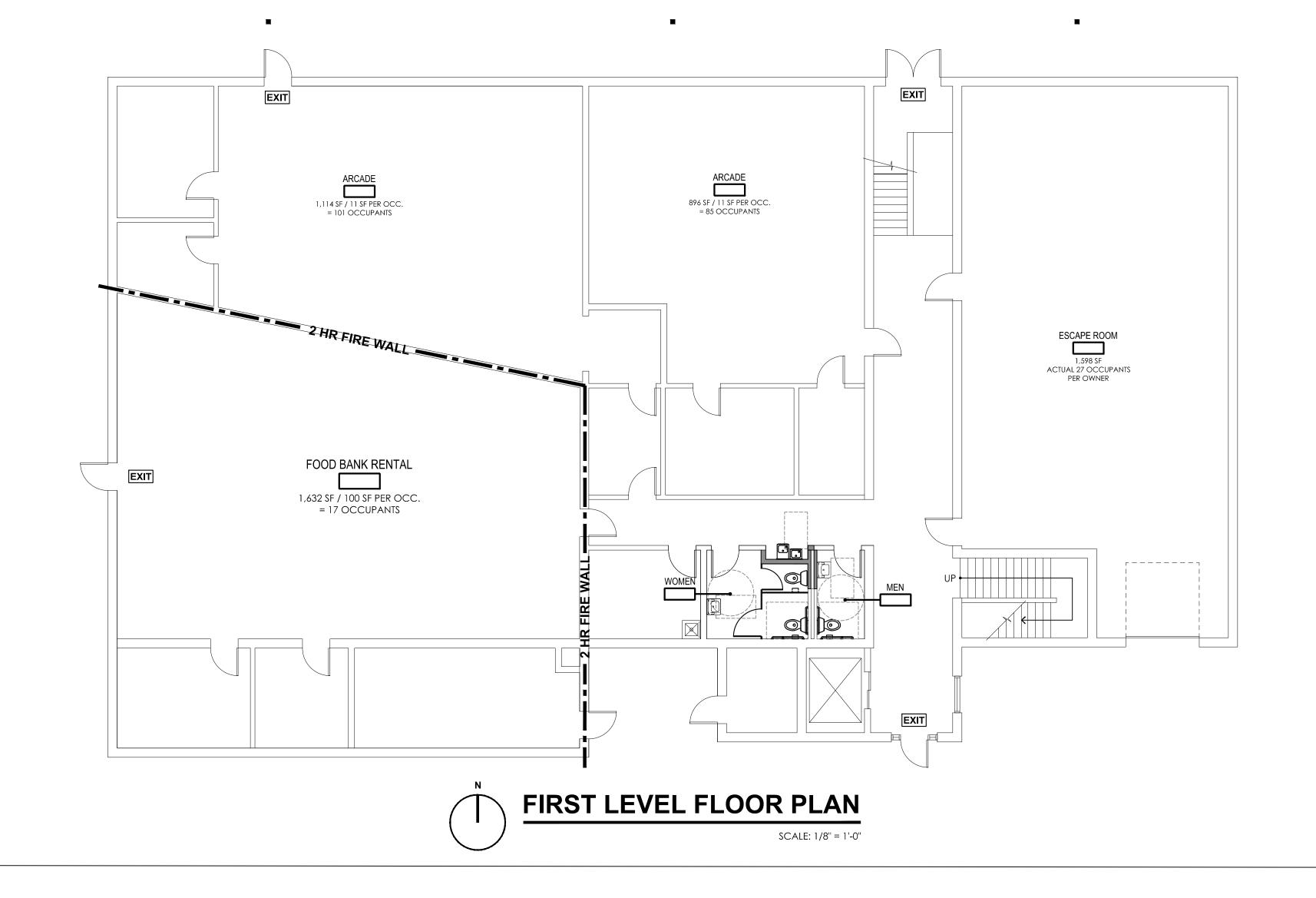
1008.1.2 Door swing. Egress doors shall be of the pivoted or side-hinged swinging type. Doors shall swing in the direction of egress travel where serving a room or are containing an occupant load of 50 or more.

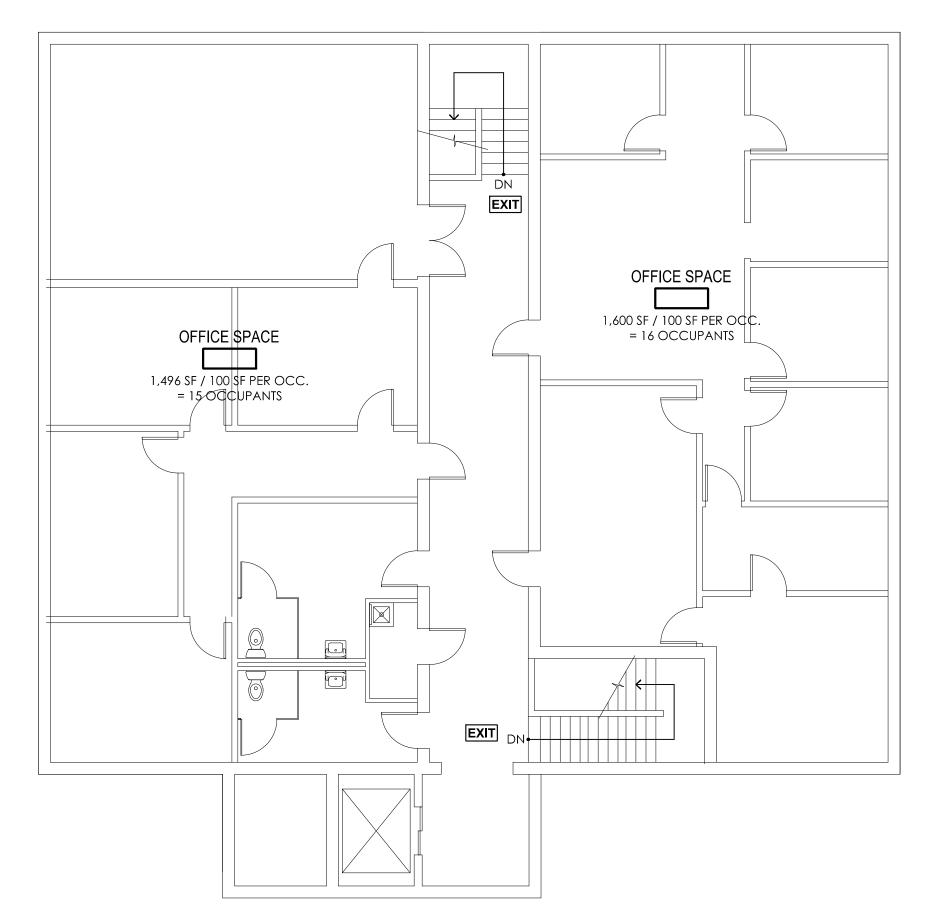
SECTION 1011 EXIT SIGNS

1011.1 Where required. Exits and exit access doors shall be marked by an approved exist sign readily visible from any direction of egress travel.

Classification	Description	Water	Closets	Lava	tories	Drinking	Other
Classification	bescription	Male	Female	Male	Female	Fountain	Olliei
A-3	Auditoriums without permanentseating, art galleries,exhibition halls, museums,lecture halls, libraries,arcades and gymnasiums	1 per 125	1 per 65	1 per 200	1 per 200	1 per 500	1 service sink
В	Buildings for the transactionof business, professional services, otherservices involving merchandise,office buildings,banks, lightindustrial and similar uses	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1 per 200	1 per 200	1 per 100	1 service sink

Classification	Total Number of Occupants	Water (Closets	Lava	tories	Drinking	Other
Classification	Total Northbel of Occupants	Male	Female	Male	Female	Fountain	Olliei
1st Floor Level -(A-3)	213	1	1	1	1	1	l 1
1st Floor Level -(B)	17		'	'	'		'
2nd Floor Level -(B)	31	1	1	1	1	1	1







KM Grand I p. 517.8 e. kmec



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bids & construction



City of Mason Planning Commission

Staff Report

TO: Planning Commission

FROM: Elizabeth A. Hude, AICP - Community Development Director

SUBJECT: Site Plan Review – 525 N. Cedar St. – Timeless Treasures

DATE: May 9, 2019

Tavis Cherry, Timeless Treasures, has requested final site plan approval for the renovation of an existing building to be used as an antique mall with up to 68 vendor spaces located at 525. N. Cedar St. The proposal is shown on the following plans and documents:

- Zoning Permit Application, received April 15, 2019
- Letter requesting consideration of a parking reserve area, dated April 12, 2019
- Letter requesting a waiver of landscaping requirements, dated May 6, 2019
- Civil drawings, DC Engineering, dated March 25, 2019, revision submitted May 6, 2019
- Architectural drawings, Studio Intrigue, dated/last revised March 1, 2019

The applicant paid the required fee of \$100, and together with the plans and documents listed above, the application appears to satisfy the submittal requirements of Sec. 94-226(c).

CONSTRUCTION SCHEDULE

The project is expected to begin as soon as possible and be open for business in the summer of 2019.

LAND USE/ZONING/MASTER PLAN:

The development is proposed on a parcel zoned C-2 General Commercial District. The applicant seeks to expand the useable floor area of a building for a retail use, a use permitted by right under Sec. 94-142(9). In accordance with Sec. 94-222(1), uses in the C-2 zoning district are subject to final site plan review prior to the granting of a building permit or a certificate of occupancy. In accordance with Sec. 94-223(2), because the use increases the number of required parking spaces from the previous use by more than two spaces, staff is unable to review the site plan administratively and hereby refers the application to the Planning Commission for review.

In addition, special outdoor events may take place once per month which would provide for additional vendor space outdoors. Outdoor retail sales and service are permitted by right according Sec. 94-142(14) and subject to site plan review. Staff recommends the applicant pursue a Special Event application for future outdoor events through the City Manager's office, or return with an amended site plan to permanently approve the outdoor retail area and additional parking. This does not need to be made a condition of the site plan approval.

The surrounding land uses and zoning are as follows:

	Current Land Use	Zoning	Future Land Use
North	Commercial	C-2 General Commercial District	Commercial
East	Commercial	C-2 General Commercial District	Commercial
South	Public (Ingham County Road Commission) Vacant	C-2 General Commercial District AG Single Family Agricultural	Public Mixed Use
West	Vacant	01 Office District	Mixed Use

The use and redevelopment of this property is generally consistent with the Master Plan, p.3-2:

"Cedar Street Business Corridor: The Cedar Business Corridor includes most of the land along Cedar Street from the US-127 interchange to South Street. This corridor presents varying conditions as one travels its length. The Plan establishes differing policies for the northern and southern portions of the corridor.

The northern half of the corridor, generally extending from the highway interchange to North Street, is afforded excellent regional access by the presence of the US-127 interchange. This segment has evolved as a business corridor catering to the convenience needs of the highway traveler and uses that particularly benefit from proximity to the highway because of the regional market on which they rely. The Plan supports the continued role of this portion of Cedar as a highway business corridor. The Plan supports the redevelopment of properties in this area to enhance their impact on the City's overall character.

Future commercial development and redevelopment should be characterized by predominantly highway-oriented uses and uses that are particularly dependent on regional access. However, this corridor segment should undergo improvements to heighten public safety and visual amenities. These improvements should include streetscape improvements that address, in part, landscaping and lighting, signage, limitations on the frequency and number of driveways, and the use of shared service drives. This portion of Cedar Street serves as one of the primary entrances into the City. Its visual character impacts perceptions of the community as a whole and its desirability as a place of commerce."

COMMENTS – DEPARTMENTS AND AGENCIES

Staff circulated the application and plans to city staff and agencies with jurisdiction over the project on April 29, 2019. The following comments were received.

Police	Provide additional lighting on the building near entrances, at the rear.
Fire	Remove gates at curb, verify 20' un-obstructed access lane at south gate in side yard.
DPW	Parking surface in the rear needs to meet City standards. Future plan needs to address drainage.

STAFF REVIEW

Staff finds that the Site Plan appears to meet the standards for Final Site Plan Approval with the requested waivers and conditions noted below. Comments are provided below as findings of fact related to the requirements and standards listed.

§94-227. Standards for site plan review and approval. In reviewing an application for site plan review and approval the following standards shall apply:

STATUS/N OTE	REQUIREMENT
	s to meet requirement; D = Does not appear to meet requirement; I = Information Needed; R
	ndation; W = Waiver requested; Italics = Staff comments
М	(1) The site shall be developed so that all elements shall be harmoniously and efficiently organized in relation to the size, shape, type and topography of the site and surrounding property.
No changes	to the building or topography are proposed. The landscaping and removal of the gate and
_	mprove the efficiency of the site and its relationship to the surrounding property.
М	(2) The site shall be developed so as not to impede the normal and orderly development, improvement, and use of surrounding property for uses permitted in this chapter.
The site arro	angement is pre-existing and does not appear to impede use of surrounding properties.
М	(3) All buildings or groups of buildings shall be arranged to permit emergency vehicle access by some practical means to all sites.
The gate at vehicles.	the curb and guardrail will be removed and improve access to the building by emergency
south sides	is accessible from all sides for emergency vehicle access. The gate openings on the north and of the buildings are marked and measure 20' wide (south) and 24' wide (north). The south main unobstructed.
M	(4) Every structure or dwelling unit shall have direct access to a public street or indirect access to a public street via an approved dedicated private street.
	cated on a public right of way known as Cedar Street/M-36. M-36 is under the jurisdiction of n Department of Transportation.
Μ	(5) Appropriate measures shall be taken to ensure that the addition or removal of surface waters will not adversely affect neighboring properties, that controls are in place to minimize sedimentation and erosion, and that topographic alterations are minimized to accommodate storm water management.
NOTE: See (
M/I	(6) Provisions shall be made for the construction of storm sewer facilities including grading, gutters, piping, on-site storage, and treatment of turf as required to handle stormwater and prevent erosion.
parking are	are proposed to the existing topography or storm water management. If the rear overflow ea is required to be constructed, storm drainage plans are required for the parking
area in the M	(7) Secondary containment for above ground areas where hazardous substances are stored or used shall be provided as required by the city fire chief.
No hazardo	us substances will be stored or used on site.
M	(8) Exterior lighting shall be designed and located so that the source of illumination is directed away from adjacent properties, the intensity of lighting is the minimum necessary, and the direction of lighting is downward as much as is possible and appropriate for the project.
_	proposed to existing lighting on the site. The plan shows existing lights on all sides of the
building's ex	
М	(9) All loading and unloading areas, outside storage areas, and refuse receptacles shall be screened from casual view from the public rights-of-way and adjoining land uses.
A 12x25 loa	ding zone will be provided on the south side of the building.
See a-c	(10) Site plans shall meet the driveway, traffic safety, and parking standards of the city in

below	such manner as necessary to address the following:				
M	a. Safe and efficient vehicular and non-vehicular circulation, including parking areas,				
	non-motorized linkages to abutting parcels, uses, sidewalks, and trails.				
There is an	There is an existing sidewalk in the MDOT right of way. The proposed plan appears to meet the				
requirement	requirements for safe and efficient vehicular access and Sec. 94-176 Supplemental Access Regulations.				
See also comments in (12) below, Sec. 94 Art. X – Parking and Loading Areas.					
M	b. Shared driveways and service drives.				
The site has	one access points – a curb cut along M-36 on the property				
M/I	c. Adequate and properly located utilities.				
The site is currently served by water and sanitary sewer. No new water or sanitary sewer services					
are propos	are proposed for this project. If the rear overflow parking area is required to be constructed,				
storm drainage plans are required for the parking area in the rear.					
М	(11) Provisions shall be made for proposed common areas and public features to be				
	reasonably maintained.				
The plan appears to meet this requirement.					
M/R	(12) The site plan submittal shall demonstrate compliance with all applicable				
	requirements of this chapter, chapters 58 and 74, the building code, and county, state, and				
See below	federal law.				
М	Chapter 94 – Zoning and Chapter 100 – Dimensional Requirements				

The plan appears to the meet the building height, setbacks and lot coverage site development standards listed in Section 94-121(c) and Tables 100-1 and 100-2 as noted on the plan sheets.

M Sec. 94-172(3) Vision clearance across corner lot.

The proposed plan appears to meet the requirements for vision clearance where the drive intersects with M-36. There appear to be no obstructions caused by landscaping or signage.

D/W Sec. 94 – Art. X Off-street Parking and Circulation

Sec. 94-292(j)(1) prohibits parking in a front yard in a C-2 district. The front yard is defined as the area between the front property line and the building line (Figure 100-101) except upon a finding by the planning commission that such parking is a critical component of the operation of the particular use and that adequate provisions are included for the screening and landscaping of such parking area.

The existing building and front yard parking are pre-existing conditions and the public entrances to the building are oriented accordingly. Staff supports a finding that parking is a critical component to the operation of the existing building and should be allowed to continue. Landscaping will be provided to soften the impact as discussed in the next section - landscaping requirements.

The front parking area is delineated in a manner that provides for adequate circulation of vehicles and a clear path toward the entrance. The removal of the gate and guardrail will improve circulation on the site.

Staff has reviewed the request for deferred parking. They are required to provide 56 spaces but propose to provide 29 and set aside a designated reserve area for the remaining 27 spaces. In accordance with Sec. 94-292(g)(2) Parking space deferment, the Planning Commission has the following authority:

"Where the property owner can demonstrate that the required amount of parking is excessive, the site plan approving body may waive the parking requirement and approve a parking area smaller than required. The parking

area waived shall be designated as reserved parking area for possible future use. The site plan approving body may subsequently require the applicant to construct additional parking spaces upon a determination by said body that the reduced number of parking spaces is not adequate to meet the parking needs of the use and public safety and welfare is at risk. Upon such a determination, the applicant shall convert the reserved parking area into available parking spaces in compliance with said determination and the requirements of this article within six months of being so directed in writing by the zoning official. The approved site plan shall clearly identify the location of this reserved parking area including dimensions and dotted parking space layout, and no buildings, structures, or similar improvements shall be established in the reserved parking area. A notice clearly identifying the location and number of reserved parking spaces should be recorded with the Ingham County Register of Deeds by the owner as a condition of final site plan approval. This discretion shall be guided by the basis of determination set forth at section 94-191(f). This subsection shall apply only to office, commercial, and industrial uses that are required to provide more than 50 parking spaces."

While the comparison provided in the letter does not consider the fact that the referenced businesses are part of a C1 district where parking is provided in public lots and on-street parking spaces, there is sufficient space on the lot to create parking in the future if necessary. Therefore, staff recommends that the Planning Commission waive the parking requirement for 56 spaces and allow a reserved parking area for 27 spaces to be set aside for future conversion into available parking if directed to do so by the zoning official; and that the location and number of spaces shall be recorded with the Ingham County Register of Deeds prior to obtaining a certificate of occupancy.

M/R Sec. 94-241 Landscape, screening and buffer requirements

It appears that per Sec. 94-241(e)(6) the Planning Commission has the ability to waive requirements in Sec. 94-241. The applicant has submitted a request for waivers from the landscaping requirements. Therefore, the Planning Commission may choose to waive the requirements as requested so long as the intent to provide landscaping within parking areas, and to enhance aesthetic and ecological qualities, character, privacy, and land value is met. The Planning Commission has the option to accept the proposed plan and waive the requirements for the landscaping pursuant to Section 94-241 (e)(6), or require the plan to be revised with the required vegetation.

The applicant has submitted a letter requesting waivers from the landscaping requirements.

Per Sec. 94-241 the site is required to have:

Sec. 94-241(c)8 - 10% of the site area shall be landscaped with grasses and other live groundcovers, planting beds, and trees, or combinations thereof, and the site shall include a minimum of one tree per 10,000 square feet of disturbed land, or fraction thereof...

With the existing vegetation the plan appears to meet this requirement.

Sec. 94-241(e)(1) – Buffer A on all sides of the property: 5-foot landscape buffer; if the applicant cannot reasonably comply with the buffer zone standards, then the Planning Commission can determine the character of the buffer based upon the standards listed in Sec. 94-241(e)(3).

Front – 4,000 s.f. landscape buffer along the front is proposed with ten (10) trees. Rear/Sides – Waiver requested.

Sec. 94-241(i) – Off-street parking landscape development standards require one canopy tree and 100 sq. ft. of landscaped area per eight spaces. Landscaped areas shall be protected by a raised standard or rolled concrete curb.

The applicant has not proposed any landscaping changes to the existing parking area; however, the front

buffer will improve the visual impact of the parking lot. Per the previous discussion on parking, the new parking area in the rear will be subject to the landscaping requirements.

Table 100-4 sets forth the required landscape buffers for the C-2 Zoning District.

	Zoning	Landscape Buffer Required
orth front)	C-2 (Hebs Inn)	А
lortheast front)	C-2 separated by Cedar Street (M-36)	A (see Sec. 94-241(e)(4))
outh	C-2	А
outh	AG	В
West	01	А

M/I Chapter 58 - Signs

No new or expanded freestanding sign is proposed.

Any proposed signage will require a separate building permit subject to the requirements of Chapter 58 of the Zoning Ordinance, including Division 2 of said chapter.

Chapter 74 – Subdivisions – Not applicable

Building Code – The building permit is currently under review by the Building Inspector. A building permit will not be issued until the site plan is approved.

County, State and Federal Law – See Agency Comments. The applicant is responsible for seeking and complying with additional permit requirements.

ACTION

§94-226. Final site plan review and approval.

The planning commission shall have the authority to approve, approve with conditions, or deny an application for final site plan review and approval. The Planning Commission may also choose to amend the proposed resolution, or continue the review to a future time and date certain to allow for plans to be revised and/or for the applicant to provide additional information.

§94-229. Extension of site plan approval.

Approvals of a final site plan are valid for a period of 12 months. Only one extension of a final site plan may be granted for an additional 12 months at the sole discretion of the approving authority. A final site plan is deemed to have expired if a building permit has not been obtained for the development within 12 months of approval of the final site plan. A request to extend preliminary or final site plan validity shall be submitted prior to the expiration of the preliminary or final site plan.

§94-230. Conformance to approved site plan.

A development project shall conform to the approved final site plan. Failure to conform to the approved final site plan shall constitute a violation of this chapter.

However, amendments to an approved site plan can be made subject to the provisions of §94-228 Amendments to an approved site plan.

§94-231. Review standards for planning commission decision.

- (a) A decision rejecting, approving, or conditionally approving a site plan shall be based upon requirements and standards contained in the zoning ordinance, other statutorily authorized and properly adopted local unit of government planning documents, other applicable ordinances, and state and federal statutes.
- (b) A site plan shall be approved if it contains the information required by the zoning ordinance and is in compliance with the conditions imposed under the zoning ordinance, other statutorily authorized and properly adopted local unit of government planning documents, other applicable ordinances, and state and federal statutes.

The applicant has submitted a Final Site Plan that, with the waivers and conditions listed, appears to contain the information required by the zoning ordinance, and will meet the standards for Final Site Plan approval.

Therefore, the following motion is offered for consideration:

MOTION

Motion to approve Resolution 2019-06.

Attachments:

- 1. Resolution
- 2. Application
- 3. Site Plan
- 4. Architectural Plans

Introduced: Second:

CITY OF MASON PLANNING COMMISSION RESOLUTION No. 2019-06

A RESOLUTION APPROVING A FINAL SITE PLAN FOR THE CHANGE OF USE OF AN EXISTING 8,100 SQUARE FOOT BUILDING TO AN ANTIQUE MALL WITH A NEW PARKING RESERVE AREA ON PROPERTY LOCATED AT 525 N. CEDAR STREET.

May 14, 2019

WHEREAS, a request has been received from Tavis Cherry, Timeless Treasures for a Final Site Plan approval for the change of use of an existing 8,100 square foot building to an antique mall with a new parking reserve area; and

WHEREAS, the proposal was shown on revised plans submitted on May 6, 2019 and dated March 25, 2019; and

WHEREAS, the subject property is further described as 525 N. Cedar; and

WHEREAS, the parcel is zoned C-2 (General Commercial District); and

WHEREAS, Section 94-222 states that any use within the C-2 zoning district requires site plan review; and

WHEREAS the Planning Commission accepts the staff report dated May 9, 2019 as finding of fact that with the following waivers listed herein, the plans will comply with the Final Site Plan Review Standards listed in Section 94-227 of the Mason Code; and

WHEREAS the Planning Commission further makes the following findings of fact:

- The Planning finds that the applicant has demonstrated that the required amount of parking is excessive; and
- The Planning Commission finds that due to the unique topography due to pre-existing vegetation
 along the rear property line, pre-existing parking surfaces and buildings along the north, and south
 property lines and the MDOT right of way, a waiver from the buffer requirements can be granted
 which considers existing vegetation, pre-existing parking surfaces between adjacent properties,
 and visibility for traffic traveling along the MDOT right of way.

NOW THEREFORE BE IT BE RESOLVED, that the Mason Planning Commission does hereby approve a Final Site Plan for the change of use of an existing 8,100 square foot building to an antique mall with a new parking reserve area property located at 525 N. Cedar Street with the following waivers:

- A waiver is granted to allow for a reserved parking area for 27 spaces to be set aside for future conversion into available parking if directed to do so by the zoning official; the location and number of spaces shall be recorded with the Ingham County Register of Deeds prior to obtaining a certificate of occupancy; and
- A waiver of the landscaping requirements is granted and landscaping is approved as shown on the plan

Yes () No () Absent ()

Vacant ()

CLERK'S CERTIFICATION: I hereby certify that the foregoing is a true and accurate copy of a resolution adopted by the Planning Commission at its meeting held Tuesday, May 14, 2019, the original of which is part of the City of Mason Planning Commission minutes.

Sarah J. Jarvis, Clerk
City of Mason

Ingham County, Michigan



PERMIT APPLICATION

ZONING

	Applicant– Please check one of the following:	DEPARTMENT USE ONLY			
	Preliminary Site Plan Review	Application Received:			
X	Final Site Plan Review				
	Special Use Permit*	Tax ID:			
	Administrative Review	Fee:			
* in	cludes Preliminary Site Plan Review	Receipt #:			
	Applicant Information:				
	Name:				
	Organization: Timeless Treasures				
	Address: 2563 Lamb Road Mason, MI 48854				
	Telephone Number:517-202-6637	Facsimile Number:			
	Interest in Property (owner, tenant, option, etc.):				
	Note: If applicant is anyone other than owner, red	quest must be accompanied by a signed letter of authorization			
	from the owner.				
	Property Information:				
	Owner: Tavis Cherry Telephone Number: 517-202-6637				
	Property Address: 525 N. Cedar Street Mason, MI 48854				
		Jame: Lot Number:			
		e sheet): COM W 1/4 COR SEC 5, S 89-25-40 E 2268.91 FT, S 00-34-20 W			
	72NR1W CITY OF MASON. 4.17 ACRES	00 FT, S 00-34-20 W 204.78 FT, S 89-25-40 E 1019.23 FT TO POB SEC 5			
	APPLICA	ANT CERTIFICATION			
В	y execution of this application, the person signing	represents that the information provided and the accompanying			
III.	documentation is, to the best of his/her knowledge, true and accurate. In addition, the person signing represents that				
11	he or she is authorized and does hereby grant a right of entry to City officials for the purpose of inspecting the premises				
11	and uses thereon to verify compliance with the terms and conditions of any Special Use Permit and/or Site Plan				
	approval issued as a result of this application.				
5	ignature: Jours of Cheng	Date:			
	· · · · · · · · · · · · · · · · · · ·				
		Street; Mason, MI 48854-0370 9155: Website: www.mason.mi.us			

Requested Description:

, ,				
necessary. Use existing building and site for antique store.				
i □ No				
-				
40 0.0 C 70 40 C 70 M 80 V 80 C 10 C 70 C 70 C 70 C 70 C 70 C 70 C 7				
ory Site Plan of Chapter comply with processed.				
Preliminary				
)6):				
- / -				
/-				

201 West Ash Street; Mason, MI 48854-0370 Office: 517.676.9155; Website: www.mason.mi.us **Engineering Review**

\$220.00*

*Two—hour minimum fee for projects increasing demand on public utilities. Actual fees incurred are billed to applicant upon completion of review.

Application Deadlines

Preliminary Site Plan/Special Use Permit Review

Applications for Preliminary Site Plan Review may be submitted at any time. Complete applications must be received a minimum four (4) weeks prior to a Planning Commission meeting to be placed on the agenda. Upon receipt of a complete application, a public hearing will be scheduled for the next regularly scheduled meeting (for Special Use Permits only). The Planning Commission has the final authority to approve, approve with conditions or deny an application for Preliminary Site Plan/Special Use Permit Review. The Planning Department staff will issue a letter to the applicant advising of any changes or revisions that may be necessary prior to making application for Final Site Plan Review.

Final Site Plan Review

Complete applications must be received a minimum of four (4) weeks prior to a Planning Commission meeting to be placed on an agenda. The Planning Commission has the final authority to approve, approve with conditions or deny an application for Final Site Plan Review. Planning Commission meetings are held on the second Tuesday after the first Monday of every month, unless the Tuesday is a Township recognized holiday, in which case the meeting is held on the following day (Wednesday).

Staff Report

The Planning Department Staff will prepare a report to the Planning Commission regarding an application for Preliminary Site Plan Review, Final Site Plan Review or Special Use Permit. The report will explain the request and review whether it complies with the zoning standards of the Mason Code. Staff will present the findings of that report during the Planning Commission meeting. An applicant who wishes to obtain one (1) copy of that report, at no cost, prior to the meeting must provide a written request to the Planning Department. The report is generally complete on the Friday before the meeting and can be mailed to the applicant or picked up by the applicant in the Planning Department.

Resources: More questions? Please contact our Customer Service Desk at 517.676.9155.

Revised 7.2.2018 (Community Development)



April 12, 2019

Ms. Elizabeth A. Hude Community Development Director 201 West Ash Street Mason, MI 48854

Re: 525 N. Cedar Street

Parking Waiver Request

Dear Ms. Hude;



Timeless Treasures is proposing to utilize the existing development at 525 N. Cedar Street for their antique business. Per City of Mason zoning ordinance, the site is required to be provided with 56 parking spaces. We believe this number of parking spaces exceeds the need for the proposed use. We hereby request a reduction of the number of parking spaces to 29. Additionally, the site use plan will provide for a reserve location for the additional 27 parking spaces should the need arise in the future. Following is our justification for the request.

The City of Mason Zoning Code parking requirement does not have a category explicitly for an antique store. The closest category would be a retail store. This requires one parking space for every 150 sqft of useable floor area. The existing building has approximately 8,100 sqft of useable floor space. This results in a require parking space count of 56 spaces.

We have researched other municipal zoning codes in the area and have identified three which provide a category more suitable for an antique store. These municipalities include: City of Lansing, Delta Township, and Delhi Township. These communities would categorize an antique store as a furniture store which would require one parking space per 850 sqft of useable floor space. Using this rate, the required parking for the site would be 10 spaces.

We have also researched the provided parking at three other antique stores in the Mason area, explicitly the Old Mill Antiques Mall, Mason Antiques District, and Maple Street Mall. These businesses operate with parking well below that required by zoning code. The provided parking at these businesses is summarized in the following table. Building area has been obtained from on-line assessor data and the count of provided parking was obtained using Google earth. Usable Floor Area was assumed to be 85% of the total building area.

Business	Total Floor Area	Usable Floor Area	Parking Required per City Mason Zoning	Parking Provided	Parking Provided per sqft Usable Floor Area
	(sf)	(sf)	(each)	(each)	(sf per space)
Old Mill Antiques Mall	4,400	3,740	44	13	288
Mason Antiques District	6,708	5,702	39	16	357
Maple Street Mall	7,676	6,525	44	16	408

We are proposing to provide 29 parking spaces at the proposed Timeless Treasure facility. This equates to one parking space per 280 sqft of usable floor space. This rate of parking is approximately one-half of the rate required by City of Mason ordinances, is approximately twice the rate of other municipality, and is higher than the three other antique stores in Mason.

We believe the proposed 29 parking spaces will be adequate for the Timeless Treasure operation. The existing site does have an additional 2.5 acres of vacant space west of the existing building. This area is available to construct additional parking spaces in the event that more spaces are required. A "reserve" parking area for 27 parking spaces has been indicated on the site use plan.

We thank you for your consideration in this matter. If you have any questions, or require additional information, please feel free to contact me.

Sincerely,

Kurt R. Krahulik, P.E.

Kurt Krahall

Vice-President

CC: Tavis Cherry, Timeless Treasures

RECEIVED

APR 15 2019

CITY OF MASON PLANNING DEPT.

May 6, 2019

City of Mason Planning Commission 201 West Ash Street Mason, MI 48854

RE: Timeless Treasure Proposed Site Improvements

To whom it concerns:

Timeless Treasures has purchased the property at 525 N Cedar Street with the purpose of creating an antique store. We are proposing minor site improvements, such as removal of gates and guardrails, and redesign of the front parking lot. Per ordinance, we are required to bring the landscaping of the entire property up to current code. Our site improvements also include removing existing pavement along the Cedar Street frontage for the purpose of adding landscaping. We are not proposing to add landscaping along the other three property lines. We are formally requesting the Planning Commission waive some of the landscaping requirements.

The Ordinance requires that the landscape plan has a maximum scale of 1"=20' and be sealed by a licensed landscape architect. The submitted landscape plan is at a 1"=40' scale. We feel that this scale adequately presents the proposed landscaping plan, and that a larger scale would not provide additional information or clarification. We also feel that the landscape plan is simplistic in nature and does not require the expertise of a licensed landscape architect. We request the Planning Commission waive these two requirements.

The proposed landscaping improvements consist of the construction of 4,000 sf of landscape area. Ordinance requires the planting of ten trees along Cedar Street. Ten trees are proposed. We are not proposing to add any additional plantings along the other three property lines. We request the Planning Commission waive the required plantings along the non-vegetated portions of the north and south property lines.

It is our understanding that the Planning Commission may waive landscaping requirements, if they choose, when considering the following:

a. Traffic Impact

There is no anticipated traffic impact from the proposed development. The addition of the trees along the Cedar Street frontage will soften the impact of the Cedar Street corridor.

b. Increase in Building and Parking Lot Coverage

There is no proposed change in building or parking lot coverage.

c. Increase in outdoor sales, displays, or manufacturing area

Timeless Treasure Request for Waiver Page 2

There is no proposed increase in outdoor sales, displays or manufacturing

d. Physical characteristics of the site and surrounding area including topography, vegetation, and other natural features.

The rear of the property abuts up to vacant lands. This area of the rear of the property is already fully vegetated.

The north property line, except as noted above, has no plantings. There is an existing building on the adjacent parcel which runs along the majority of the non-planted property line. We do not feel that additional plantings along this section of the property line would enhance either parcel.

The south property line is shared with an adjacent commercial business and the Ingham County Road Commission storage yard. The adjacent commercial property's parking lot and our parking lot, currently extend to the property line. This configuration is a pre-existing condition. We feel that a change in this configuration would be detrimental to each business operations. The remainder of the south property line is against the Road Commission's storage yard. This portion of the property line is hidden from view from the street. We feel that additional plantings along this portion of the property line would not enhance either parcel.

e. Visual, Noise, Air Pollution

The proposed development will not result in an increase in Visual, Noise or Air Pollution.

f. Health, Safety, Welfare

We do not believe that the addition of plantings along the south and north property lines will adversely impact the Health, Safety, and Welfare of the public.

g. Additional dwelling units and resulting density in a residential development

The proposed development is not residential in nature. It also does not abut any residential developments.

h. Location and dimension of existing easement on the site

There are no public easements located on the site.

i. Any other criteria pertinent to the proposed use or character of the site.

None

We hope the above narrative assists you in your decision in regards to this matter. We look forward to working with the City to our mutual success of the City of Mason.

Sincerely,

Tavis Cherry

CITY OF MASON P.O. BOX 370 201 W. ASH ST. MASON MI 48854-370 Phone : (517) 676-9155 WWW. MASON. MI. US

> Received From: CHERRY, TAVIS JAMES 2563 LAMB ROAD MASON MI 48854

Date: 04/15/2019

Receipt: 100247068

Cashier: SO

ZONING PERMIT APPLICATION 525 N CEDAR-TIMELESS TREASURES

525 N CEDAR-TIMEE	TNUOMA
ITEM REFERENCE	& PERMIT
PERBUS PERMIT-VARIOUS BUS LICENSES S 525 N CEDAR-ZONING PERMIT	the second was the second the sec
TOTAL-	\$100.00 \$100.00
TUTOV 417	\$100.00
Total Tendered:	00.00
Change:	

Time: 3:42:18 PM

CITY OF MASON P.O. BOX 370 201 W. ASH ST. MASON MI 48854-370 Phone : (517) 676-9155 WWW. MASON. MI. US

Received From: CHERRY, TAVIS JAMES 2563 LAMB ROAD MASON MI 48854

Time: 3:42:18 PM Date: 04/15/2019 Receipt: 100247068

Cashier: SO

ZONING PERMIT APPLICATION 525 N CEDAR-TIMELESS TREASURES

J2J 11	AMOUNT
ITEM REFERENCE PERBUS PERMIT-VARIOUS BUS LICENSE	& PERMIT
PERBUS PERMIT-VARIOUS BUS S 525 N CEDAR-ZONING PERMIT	\$100.00
525 N GEDAN LONG	\$100.00
TOTAL CHECK 417 Total Tendered:	\$100.00 \$100.00
Total Tenderous	\$0.00
Change:	

TIMELESS TREASURES

525 N. CEDAR STREET SECTION 5, TOWN 2N, RANGE 1W

ZONING DISTRICT AND ORDINANCE |C-2|: GENERAL COMMERCIAL DISTRICT

SEC. 94-142

REQUIRED

20,000

100

50₍₁₁₎

10₍₃₎

10(3)

50%

45

15

PROPOSED

186,275

204

59

MAIN BLDG N = 62

MAIN BLDG S = 23

ACCESSORY BLDG N = 161

ACCESSORY BLDG S = 11

MAIN BLDG = 673

ACCESSORY BLDG = 538

7% (12,628 SF)

PER ASSESSOR RECORD,

AVERAGE HEIGHT = 14 FT.

PER ASSESSOR RECORD,

AVERAGE HEIGHT = 14 FT.

SEC TION

REQUIREMENTS -

MINIMUM LOT SIZE

MINIMUM LOT WIDTH

STRUCTURE (SQ. FEET)

(SQ. FEET)

(FEET)

(FEET)

(FEET)

(FEET)

BUILDING*

= 10'

= 10'

= 10'

ALL STRUCTURES

LOT AND BUILDING DIMENSIONAL

MINIMUM LOT AREA PER PRINCIPAL

MINIMUM FRONT YARD SETBACK

MINIMUM SIDE YARD SETBACK

MINIMUM REAR YARD SETBACK

MAXIMUM HEIGHT PRINCIPAL

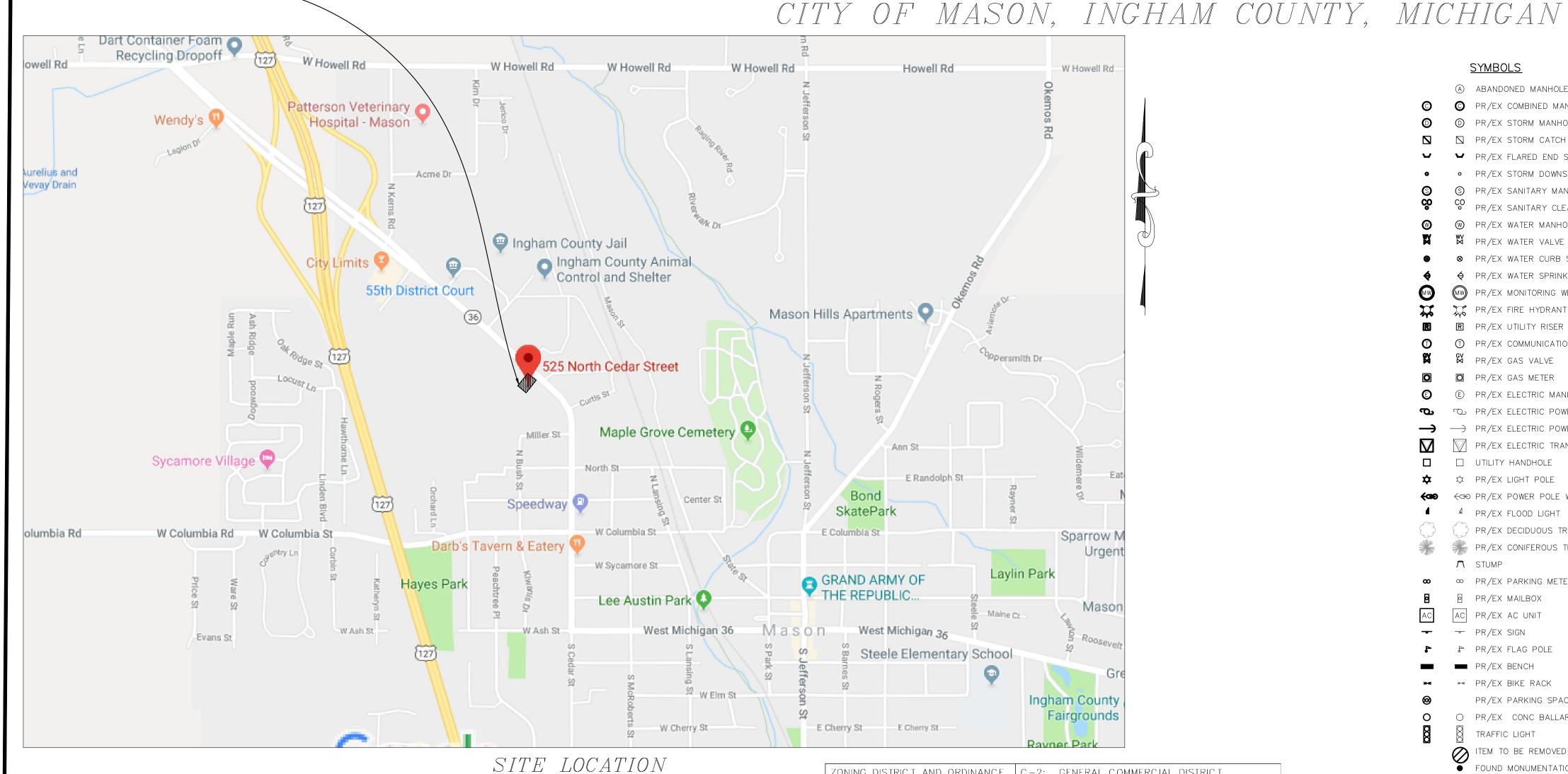
STRUCTURE (FEET) *MAIN

MAXIMUM HEIGHT PRINCIPAL

STRUCTURE (FEET) *GARAGE*

MAXIMUM % OF LOT COVERAGE BY

TABLES 100-1 AND 100-2



PROJECT LOCATION-

CONTACTS:

PLANNING

ELECTRIC

WATER

SANITARY

STORM

TRANSPORTATION

ELIZABETH HUDE, DIRECTOR

2700 PORT LANSING RD

LANSING, MI 48906

CONSUMERS ENERGY

1955 W PARNALL RD JACKSON MI 49201

CONSUMERS ENERGY

1955 W PARNALL RD

DONALD B. HECK, PE

DONALD B. HECK, PE

DONALD B. HECK, PE

312 NORTH STREET

(517) 676-9200

312 NORTH STREET

(517) 676-9200

MASON, MICHIGAN 48854-1169

MASON, MICHIGAN 48854-1169

MASON, MICHIGAN 48854-1169

312 NORTH STREET

(517) 676-9200

JACKSON MI 49201

(517) 788-1191

(517) 335-3754

(517) 788-1191

201 W. ASH ST MASON, MI 48854

CITY OF MASON PLANNING DEPARTMENT

MDOT LANSING TRANSPORTATION CENTER

WOLVERINE ENGINEERS & SURVEYORS, INC.

WOLVERINE ENGINEERS & SURVEYORS, INC.

WOLVERINE ENGINEERS & SURVEYORS, INC.

NO SCALE

PROPOSED DEVELOPMENT:

USE EXISTING SITE AS AN AUCTION HOUSE. NO SIGNIFICANT IMPROVEMENTS PROPOSED.

W 800 FT, S 00-34-20 W 204.78 FT, S 89-25-40E 1019.23 FT TO POB SEC 5 T2NR1W CITY OF MASON. 4.17 ACRES

ZONING:

BUILDING REQUIREMENTS: FRONT SETBACK SIDE SETBACK SIDE SETBACK REAR SETBACK

MAXIMUM BUILDING HEIGHT = 45'

BUFFER REQUIREMENTS:

PROPERTY DATA: LAND AREA: 4.17 ACRES TAX ID NUMBER: 33-19-10-05-328-003 **LEGAL DESCRIPTION:**

COM W 1/4 COR SEC 5, S 89-25-40 E 2268.91 FT, S 00-34-20 W 987.36 FT TO POB, N 46-22-46 W 300 FT, N 89-25-40

EXISTING PARCEL ZONING: C2 PROPOSED PARCEL ZONING: C2 ADJACENT PARCEL ZONING: C2

BUFFER = ZONE A

		<u>L_L</u>	<u> GLND</u>
	SYMBOLS	ABE	REVIATIONS
A	ABANDONED MANHOLE	ВС	BACK OF CURB
0	PR/EX COMBINED MANHOLE	BIT	BITUMINOUS
(PR/EX STORM MANHOLE/CATCHBASIN	BLD	BUILDING
	PR/EX STORM CATCH BASIN (CURB)	BLK	BULKHEAD
7	PR/EX FLARED END SECTION	BB	BOTTOM OF BANK
0	PR/EX STORM DOWNSPOUT	С	CALCULATED
<u>S</u>	PR/EX SANITARY MANHOLE	CL	CENTERLINE
co	PR/EX SANITARY CLEANOUT	СВ	CATCH BASIN
(W)	PR/EX WATER MANHOLE	СО	CLEAN OUT
₩V	PR/EX WATER VALVE	CMB	COMBINED
8	PR/EX WATER CURB STOP	CONC	CONCRETE
\(\phi \)	PR/EX WATER SPRINKLER	ELEC	ELECTRIC
MW	PR/EX MONITORING WELL	EL	ELEVATION
\overline{A}	PR/EX FIRE HYDRANT	ENC	ENCROACHMENT
R	PR/EX UTILITY RISER	EOM	EDGE OF METAL
①	PR/EX COMMUNICATIONS MANHOLE	EX	EXISTING
g∨ ⊠	PR/EX GAS VALVE	FC	FACE OF CURB
0	PR/EX GAS METER	FS	FINISH SURFACE
E	PR/EX ELECTRIC MANHOLE	FES	FLARED END SECTION
9	PR/EX ELECTRIC POWER POLE	FL	FLOW LINE
\rightarrow	PR/EX ELECTRIC POWER POLE GUY WIRE	FOIR	FOUND CAPPED IRON ROD
	PR/EX ELECTRIC TRANSFORMER	GAS	GAS LINE
	UTILITY HANDHOLE	LF	LINEAR FEET
ф	PR/EX LIGHT POLE	LS	LANDSCAPE
	PR/EX POWER POLE WITH LIGHT FIXTURE	МН	MANHOLE
A	PR/EX FLOOD LIGHT	(M)	MEASURED
	PR/EX DECIDUOUS TREE	MON	MONUMENT
	PR/EX CONIFEROUS TREE	NO	NUMBER
$ \wedge $	STUMP	OC	ON CENTER
∞	PR/EX PARKING METER	OS	OFFSET
0	PR/EX MAILBOX	PL	PROPERTY LINE
AC	PR/EX AC UNIT	PR	PROPOSED
-	PR/EX SIGN	(R)	RECORDED
4.	PR/EX FLAG POLE	POB	POINT OF BEGINNING
	PR/EX BENCH	POL	POINT ON LINE
× ×	PR/EX BIKE RACK	R.O.W.	RIGHT-OF-WAY
_	PR/EX PARKING SPACE COUNT	SAN	SANITARY
	PR/EX CONC BALLARD	SF	SQUARE FEET
	TRAFFIC LIGHT	STM	STORM
\oslash	ITEM TO BE REMOVED	TB	TOP OF BANK
•	FOUND MONUMENTATION	TC	TOP OF CURB
0	SET CAPPED IRON ROD #	TR	TOP OF RETAINING WALL

SECTION CORNER

SOIL XXX SOIL CLASSIFICATION (NCRS)

SURFACE DRAINAGE PATH DIRECTION

SOIL BORING

⊕ BENCHMARK

<u>LEGEND</u>

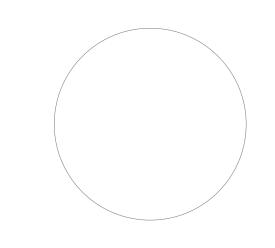
LINE TYPE	<u>ES</u>
	PR/EX CURB AND GUTTER
xxx	PR/EX MAJOR CONTOUR
xxx	PR/EX MINOR CONTOUR
	PR/EX STORM SEWER
	PR/EX SANITARY SEWER
UG ELEC UG ELEC	PR/EX UNDERGROUND ELECTRIC LINE
— OH ELEC — — — OH ELEC —	PR/EX OVERHEAD ELECTRIC LINE
X'_GAS	PR/EX GAS LINE
	PR/EX WATER LINE
	PR/EX COMMUNICATION LINE
X''_STE	PR/EX STEAM LINE
	PR/EX TREE LINE
× = × = × = × = × = ×	PR/EX FENCE
	RIGHT-OF-WAY
	PROPERTY LINE
	ADJACENT PROPERTY LINE
	HISTORICAL PROPERTY LINE
	EASEMENT
	SETBACK
	SECTION LINE
	SILT FENCE
	DISTURBANCE LIMITS
	RUNOFF AREA
	SOIL TYPE CONTOURS (NRCS)
********	CURB REMOVAL
	BITUMINOUS PAVEMENT REMOVAL
	CONCRETE REMOVAL
	CONCRETE HATCHING
	BITUMINOUS PAVEMENT HATCHING
	STONE LANDSCAPE HATCHING
	· ·

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH ACT 240, PA OF 1937 AS AMENDED.

TW TOP OF WALK

WTR WATER

TYPICAL



Kurt R. Krahulik LICENSE NO. 046794 DC ENGINEERING 1210 N. CEDAR ST, SUITE B LANSING, MI 48906 (517) 853-7866

OWNER	SEVOR PROPERTIES LLC 11108 EDEN TRAIL EAGLE, MI 48822
ARCHITECT	TBD
ENGINEER	DC ENGINEERING PC 1210 NORTH CEDAR ST, SUITE B LANSING, MICHIGAN 48906 (517) 852-7866
CONTRACTOR	TBD



MULCHED LANDSCAPE HATCHING

1210 N. CEDAR ST. SUITE B LANSING, MICHIGAN 48906 PH:

(517) 853-7866

525 N CEDAR CIVIL - COVER PLANS PREPARED FOR: TIMELESS TREASURES

2563 LAMB RD MASON, MI 48854 (517-202-6637 DRAWN BY: EGS REVIEWED BY: KRK

SHEET: 1 OF 3

REVISIONS

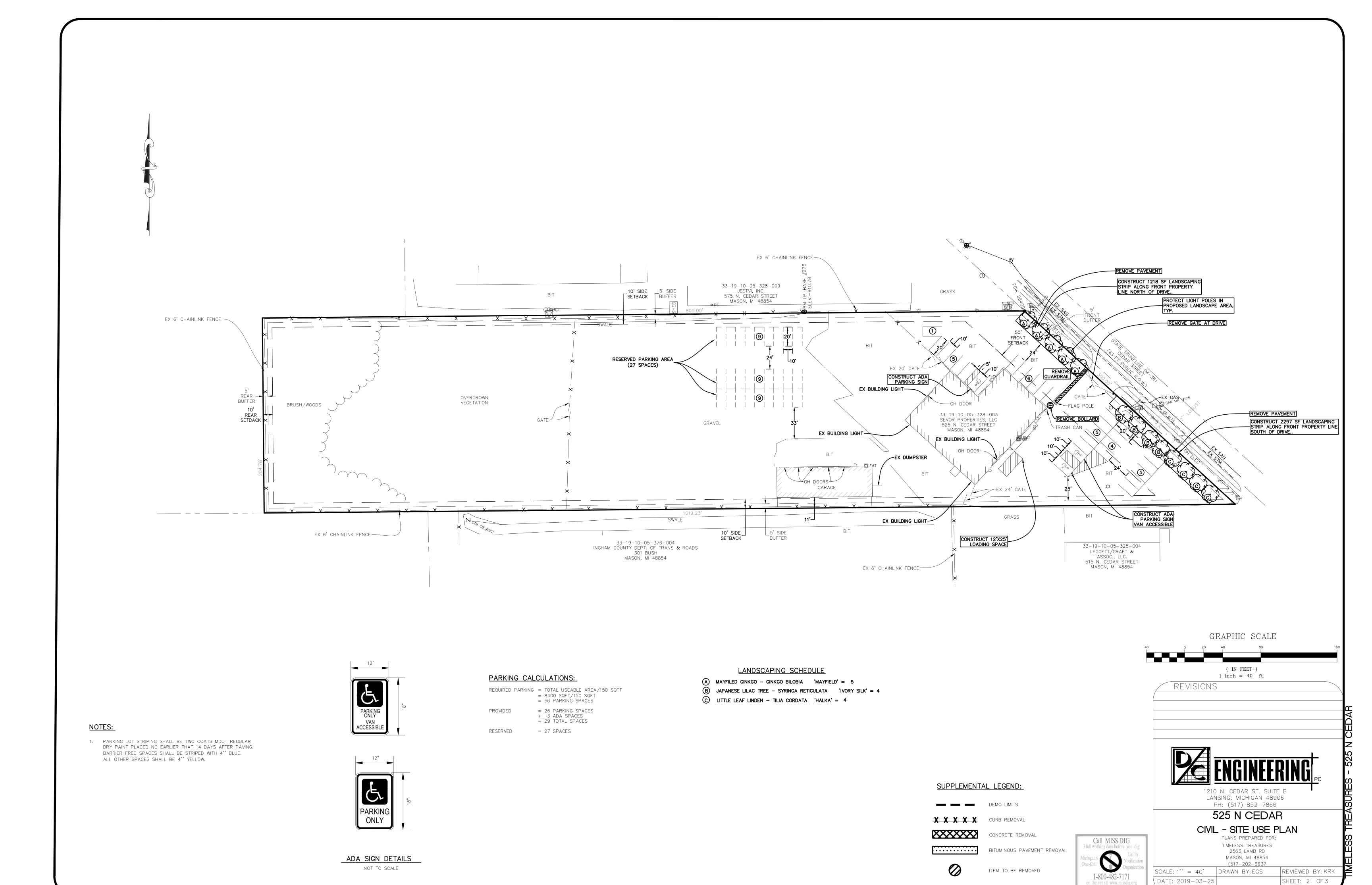
SCALE: NONE

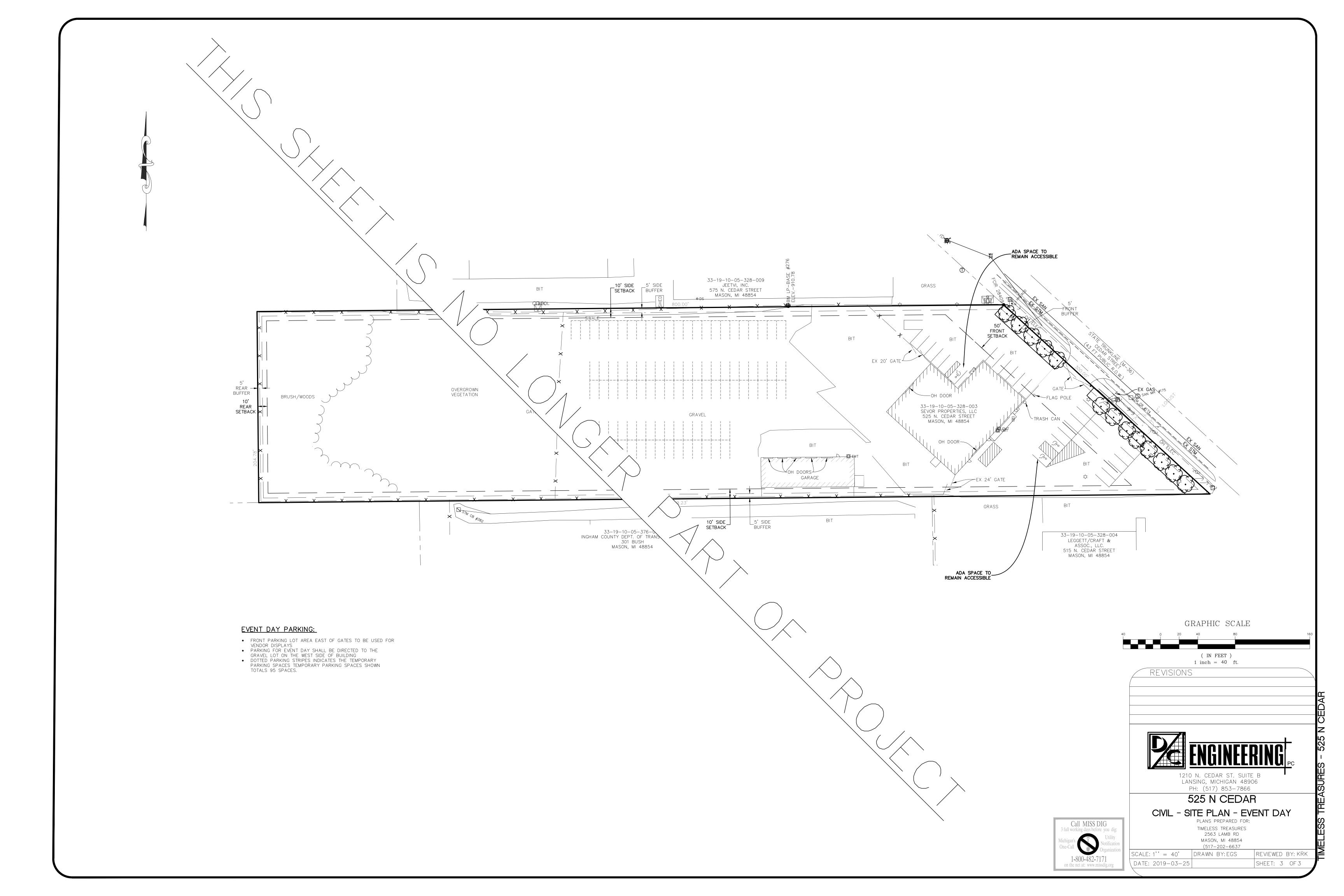
\ DATE: 2019-03-25

Call MISS DIG

1-800-482-7171

on the net at: www.miss





525 N. CEDAR ST.

MASON, MI 48854

GENERAL NOTES

I. NO WORK SHALL COMMENCE ON THIS PROJECT UNTIL ALL REQUIRED PERMITS ARE EXECUTED BY LOCAL BUILDING AUTHORITIES. FAILURE TO COMPLY MAY RESULT IN REMOVAL OF WORK-IN-PLACE FOR INSPECTION AND / OR CODE COMPLIANCE. ALL COST ASSOCIATED WITH REMOVAL, CHANGES, AND RECONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

- 2. DO NOT SCALE THESE DRAWINGS
- 3. ALL WORK ON THIS PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES.

4. <u>DEFECTS IN SERVICE:</u> THE OWNER SHALL PROMPTLY REPORT TO STUDIO [INTRIGUE] ARCHITECTS ANY DEFECTS OR SUSPECTED DEFECTS IN THE SERVICES OF WHICH THE OWNER BECOMES AWARE, SO THAT STUDIO [INTRIGUE] ARCHITECTS MAY TAKE MEASURES TO MINIMIZE THE CONSEQUENCES OF SUCH A DEFECT. THE OWNER FURTHER AGREES TO IMPOSE A SIMILAR NOTIFICATION REQUIREMENT ON ALL CONTRACTORS IN ITS OWNER/CONTRACTOR CONTRACT AND SHALL REQUIRE ALL SUBCONTRACTS AT ANY LEVEL TO CONTAIN A LIKE REQUIREMENT. FAILURE TO NOTIFY SHALL RELIEVE STUDIO [INTRIGUE] ARCHITECTS OF THE COSTS OF REMEDYING THE DEFECTS ABOVE THE SUM SUCH REMEDY MOULD HAVE COST HAD PROMPT NOTIFICATION BEEN GIVEN WHEN SUCH DEFECTS WERE FIRST DISCOVERED.

5. <u>DESIGN / DOCUMENT OWNERSHIP</u> DRAWINGS, DESIGN & SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, AS WELL AS THE DESIGN OF ANY WORK PRODUCED BY STUDIO [INTRIGUE] ARCHITECTS SHALL REMAIN THE PROPERTY OF STUDIO [INTRIGUE] ARCHITECTS WHETHER THE PROJECT WHICH THEY ARE INTENDED FOR IS EXECUTED OR NOT. STUDIO [INTRIGUE] ARCHITECTS HOLDS THE COPYRIGHT AND ANY AND ALL RIGHTS ASSOCIATED THEREWITH FOR THE INSTRUMENTS OF SERVICES AND THE FINISHED WORK, INCLUDING THE RIGHT TO SELL, PUBLISH, MAKE DERIVATIVE WORKS OR USE IN ANY MANNER DESIRED. THE CLIENT OF STUDIO [INTRIGUE] ARCHITECTS SHALL BE PERMITTED TO OBTAIN COPIES OF THESE INSTRUMENTS OF SERVICE FOR THEIR USE IN THE OCCUPANCY AND PLANNING OF THIS PROJECT. THE DRAWINGS, SPECIFICATIONS AND/OR DESIGN SHALL NOT BE USED BY THE CLIENT OF STUDIO [INTRIGUE] ARCHITECTS ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO STUDIO [INTRIGUE] ARCHITECTS. THE CLIENT IS GRANTED A LIMITED REPRODUCTION LICENSE TO REPRODUCE DRAWINGS AND SPECIFICATIONS AS NEEDED IN THE EXECUTION OF THIS PROJECT. SHOULD THIS AGREEMENT BE TERMINATED, THE LIMITED LICENSE IS TERMINATED. IF TERMINATION IS DUE TO BREACH OF CONTRACT BY ARCHITECT, THE LICENSE IS TERMINATED, AND A NEW LICENSE SHALL BE GRANTED FOR THE CLIENT TO CONTINUE WITH A NEW DESIGN PROFESSIONAL. THE CLIENT IS NOT PERMITTED UNDER ANY CIRCUMSTANCES TO SELL, LEASE, RENT, PUBLISH OR OTHERWISE DISTRIBUTE THESE INSTRUMENTS OF SERVICE OR DESIGNS TO OTHER PARTIES WITHOUT THE EXPRESS WRITTEN CONSENT OF, AND

6. ELECTRONIC DOCUMENTS:

[INTRIGUE] ARCHITECTS.

THE CLIENT OF STUDIO [INTRIGUE] ARCHITECTS HAS NOT BEEN GRANTED A LICENSE TO OBTAIN, UTILIZE OR DISTRIBUTE ELECTRONIC FILES CONTAINING INSTRUMENTS OF SERVICE OR DESIGNS OF STUDIO [INTRIGUE] ARCHITECTS WITHOUT THE EXPRESS WRITTEN AGREEMENT OF, AND APPROPRIATE COMPENSATION TO: STUDIO [INTRIGUE] ARCHITECTS.

APPROPRIATE COMPENSATION AND CREDIT TO, STUDIO

CONSTRUCTION MEANS AND METHODS: CONSTRUCTION MEANS AND METHODS ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR FOR THE PROJECT.

STUDIO [INTRIGUE] ARCHITECTS ASSUMES NO RESPONSIBILITY FOR THE CONSTRUCTION MEANS AND METHODS PROVIDED BY THE CONTRACTOR, NOR SHALL ANY REVIEW OR OBSERVATION OF WORK BY STUDIO [INTRIGUE] ARCHITECTS RELIEVE THE CONTRACTOR OF THAT RESPONSIBILITY.

8. CONSTRUCTION OBSERVATION: UNDER THIS AGREEMENT, CONSTRUCTION OBSERVATION, IF PROVIDED IN THE PROPOSAL BY STUDIO [INTRIGUE] ARCHITECTS, IS INTENDED SOLELY TO MONITOR GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS PRODUCED BY STUDIO [INTRIGUE] ARCHITECTS AND IS NOT A GUARANTEE THAT THE CONTRACTOR HAS PROPERLY PERFORMED ITS WORK. A SEPARATE WRITTEN AGREEMENT DETAILING THE EXTENT OF OBSERVATION AND/OR INSPECTION MAY BE PROVIDED, IF DESIRED. IN THE ABSENCE OF ANY SUCH OVERRIDING AGREEMENT, THE CONDITIONS STATED ABOVE SHALL REMAIN IN EFFECT.

REQUEST FOR CLARIFICATION OR INTERPRETATION THE OWNER'S AGREEMENT WITH THE CONTRACTOR SHALL STATE THAT THE CONTRACTOR MAY, AFTER EXERCISING DUE DILIGENCE TO LOCATE REQUIRED INFORMATION, REQUEST FROM STUDIO [INTRIGUE] ARCHITECTS, LLC CLARIFICATION OR INTERPRETATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. STUDIO [INTRIGUE] ARCHITECTS, LLC SHALL, WITH REASONABLE PROMPTNESS, RESPOND TO SUCH CONTRACTOR'S REQUESTS FOR CLARIFICATION OR INTERPRETATION, HOWEVER, IF THE INFORMATION REQUESTED BY THE CONTRACTOR IS APPARENT FROM FIELD OBSERVATIONS, IS CONTAINED IN THE CONTRACT DOCUMENTS OR IS REASONABLY INFERABLE FROM THEM, THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ALL REASONABLE COSTS CHARGED BY STUDIO [INTRIGUE] ARCHITECTS, LLC TO THE OWNER FOR THE ADDITIONAL SERVICES REQUIRED TO PROVIDE SUCH INFORMATION.

GENERAL NOTES CONT..

10. UNAUTHORIZED CHANGES IN THE EVENT THE OWNER, THE OWNER'S CONTRACTORS OR SUBCONTRACTORS, OR ANYONE FOR WHOM THE OWNER IS LEGALLY LIABLE MAKES OR PERMITS TO BE MADE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY STUDIO [INTRIGUE] ARCHITECTS WITHOUT OBTAINING PRIOR WRITTEN CONSENT OF STUDIO [INTRIGUE] ARCHITECTS, THE OWNER SHALL ASSUME FULL RESPONSIBILITY FOR THE RESULTS OF SUCH CHANGES. THEREFORE THE OWNER AGREES TO WAIVE ANY CLAIM AGAINST AND TO RELEASE FROM ANY LIABILITY, STUDIO [INTRIGUE] ARCHITECTS, ARISING DIRECTLY OR INDIRECTLY FROM SUCH CHANGES.

II. STUDIO [INTRIGUE] ARCHITECTS, ITS CONSULTANTS, OFFICERS AND EMPLOYEES ARE NOT RESPONSIBLE FOR JOB SITE SAFETY PRECAUTIONS, COMPLIANCE, MEANS/METHODS. JOB SAFETY IS THE FULL RESPONSIBILITY OF THE GENERAL CONTRACTOR.

12. ALL BIDDERS MUST VISIT THE SITE TO EXAMINE THE EXISTING CONDITIONS AND ANY OBSTACLES. NO ADDITIONAL PAYMENT WILL BE APPROVED BY THE OWNER FOR CONDITIONS AND/OR OBSTACLES THAT THE BIDDER COULD HAVE IDENTIFIED THROUGH THE REQUIRED SITE

13. CONTRACTOR SHALL INCLUDE THE COST OF ALL LABOR, MATERIALS, STATE SALES TAX AND USE TAXES TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE DOCUMENTS.

14. CONTRACTOR SHALL INCLUDE THE COST OF ALL PLAN REVIEW, BUILDING PERMITS (INCLUDING TRADE PERMITS) AND INSPECTION FEES NECESSARY TO COMPLETE THE CONSTRUCTION OF THIS PROJECT.

15. CONTRACTOR SHALL PROVIDE AND PAY FOR TEMPORARY UTILITIES SUCH AS WATER, ELECTRIC, HEAT, ETC. AS NECESSARY TO COMPLETE PROJECT.

16. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS. DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCEMENT. PRIOR TO COMMENCEMENT OR PLACEMENT OF INTERIOR WALLS, THE CONTRACTOR SHALL COMPLETE A PRELIMINARY WALL LAYOUT ON THE FLOOR SYSTEM. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT.

17. VERIFY LOCATION OF ALL EXISTING UTILITIES -- NOTIFY OWNER OF SCHEDULE TO TURN OFF ANY UTILITIES. DRAWINGS ARE NOT INTENDED TO SHOW THE LOCATION OF UTILITIES, THOSE SHOWN OR NOTED ARE APPROXIMATE.

18. BARRICADE AND PROTECT WORK AREAS, ADJACENT WALKWAYS AND ACCESSES TO PROTECT WORKMEN, PEDESTRIANS, ADJACENT TENANTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL JOB SITE SAFETY PRECAUTIONS AND OBSERVATIONS.

AVOID ENCROACHMENT ON ADJACENT PROPERTIES OR TENANT SPACES. THE GENERAL CONTRACTOR SHALL REPLACE AND/OR REPAIR DAMAGE TO ADJACENT PROPERTIES OR TENANT SPACES RESULTING FROM ENCROACHMENT DURING CONSTRUCTION OPERATIONS.

20. KEEP ALL DRIVE LANES AND BUILDING EXITS CLEAN AND CLEAR AT ALL TIMES.

21. STRUCTURAL COMPONENTS SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ARCHITECT.

22. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GENERAL CLEANING DUTIES TO REMOVE ALL DEBRIS ASSOCIATED WITH THE DEMOLITION INCLUDING, BUT NOT LIMITED TO: LOT SWEEPING, INSPECTION / REPLACEMENT OF HVAC FILTERS, DUSTING, WINDOW CLEANING, ETC.

23. NOT USED

<u>PENETRATIONS</u> PENETRATIONS THROUGH UNRATED ROOF/CEILING AND FLOOR/CEILING ASSEMBLIES SHALL HAVE THE ANNULAR SPACE AROUND THE PENETRATION FILLED IN ACCORDANCE WITH 2015 MBC 714.5 TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.

PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE PROTECTED BY UL LISTED FIRE-STOPPING SYSTEMS IN ACCORDANCE WITH 2015 MBC 714.

25. NOT USED.

INTERIOR COLORS AND FINISHES SHALL BE SELECTED BY THE TENANT.

27. NOT USED.

WOOD FRAMING SHALL BE FIRE STOPPED SO THAT VERTICAL & HORIZONTAL CAVITIES DO NOT EXCEED 10'-0"

29. NOT USED

30. NOT USED.

INTERIOR FINISHES SHALL CONFORM TO THE REQUIREMENTS OF 2015 MBC 803.

THE CORRIDOR (AND CONTIGUOUS SPACES) SHALL HAVE MINIMUM CLASS B WALL AND CEILING FINISHES - FLAME SPREAD OF 26-75; SMOKE-DEVELOPED 0-450.

ROOMS AND ENCLOSED SPACES SHALL HAVE MINIMUM CLASS C WALL AND CEILING FINISHES - FLAME SPREAD OF 76-200; SMOKE-DEVELOPED 0-450.

GENERAL NOTES CONT...

32. ALL FLOOR SURFACES SHALL BE SLIP RESISTANT AND SECURELY ATTACHED IN ACCORDANCE WITH 2015 MBC 1003.4. THE STATIC COEFFICIENT OF FRICTION FOR ALL FLOOR SURFACES SHALL BE 0.6 MINIMUM.

33. PROVIDE ADEQUATE CLEARANCES FOR SERVICING OF EQUIPMENT PER CODE.

34. PROVIDE ALL NECESSARY NAILERS, BLOCKING AND GROUNDS AS REQUIRED TO SUPPORT HANDRAILS, GUARDRAILS, WINDOW COVERINGS, DOORSTOPS, WALL MOUNTED CABINETS, ETC. SET WORK PLUMB, LEVEL AND ACCURATELY CUT.

35. GRAB BARS INSTALLED IN THE TOILET ROOMS SHALL BE DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT.

36. ALL WATER FAUCETS SHALL MEET ICC/ANSI REQUIREMENT FOR OPERABLE PARTS - OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.

37. TOILET ROOM SIGNAGE (VISUAL/TACTILE) SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE. TOILET ROOM SIGNAGE SHALL BE MOUNTED SO THAT THE BASELINE OF THE VISUAL CHARACTERS IS 48" TO 60" ABOVE THE ADJACENT FLOOR SURFACE.

38. EACH PANE OF TEMPERED GLAZING SHALL BE LABELED TO SPECIFY THE LABELER, THE SAFETY GLAZING STANDARD, THE TYPE AND THE THICKNESS. THE LABEL SHALL BE ACID-ETCHED, SAND BLASTED, CERAMIC FIRED, OR EMBOSSED, OR SHALL BE OF A TYPE THAT ONCE APPLIED CANNOT BE REMOVED WITHOUT BEING DESTROYED

39. ALL FIRE EXTINGUISHER LOCATIONS SHOWN ARE APPROXIMATE. EXTINGUISHERS LOCATED IN PUBLIC AREAS SHALL BE INSTALLED IN SEMI-RECESSED CABINETS (PROJECTION NOT TO EXCEED 4"). EXTINGUISHERS IN NONPUBLIC AREAS (HVAC CLOSETS, STORAGE ROOMS) EQUIPMENT ROOMS) SHALL BE BRACKET-MOUNTED. ALL FIRE EXTINGUISHER LOCATIONS AND MOUNTING HEIGHTS SHALL BE APPROVED BY THE LOCAL FIRE MARSHAL PRIOR TO INSTALLATION.

40. WHERE REQUIRED BY THE LOCAL FIRE MARSHAL, A KNOX BOX SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.

42. NOT USED.

43. BRAILLE EXIT SIGN PLACARDS TO BE LOCATED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEMAY, AND THE EXIT DISCHARGE. IN ACCORDANCE WITH SECTION 1013.4 OF THE 2015 MBC AND COMPLYING WITH ICC AII7.1.

44. CONTRACTOR SHALL PROVIDE ACCESS OR ACCESS PANELS TO ALL VALVES, DAMPERS AND OTHER NECESSARY UTILITY ADJUSTMENT ITEMS.

45. NOT USED.

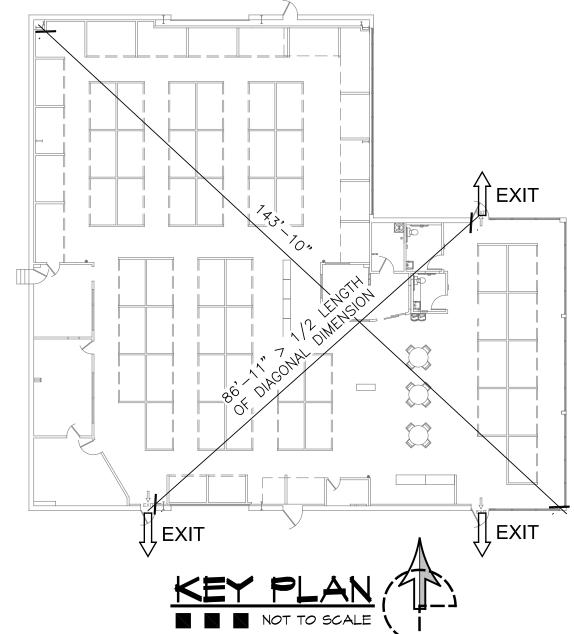
46. GYPSUM BOARD MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C1396.

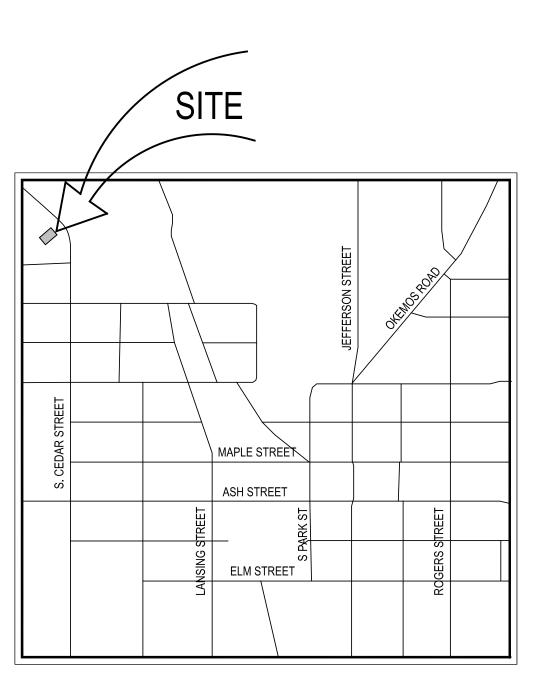
47. GYPSUM BOARD MATERIALS USED IN FIRE RATED ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF THE UL ASSEMBLIES LISTED.

APPLICANT/GENERAL CONTRACTOR TO BE DETERMINED

STUDIO [INTRIGUE] ARCHITECTS, LLC KENNETH L. JONES, II, AIA, NOARB LICENSE # 1301054003 (EXP. 10/31/19) 1114 S. WASHINGTON AVE., #100 LANSING, MI 48910 517-372-8804 PHONE 517-372-8805 FAX

KENJ@STUDIOINTRIGUE.COM



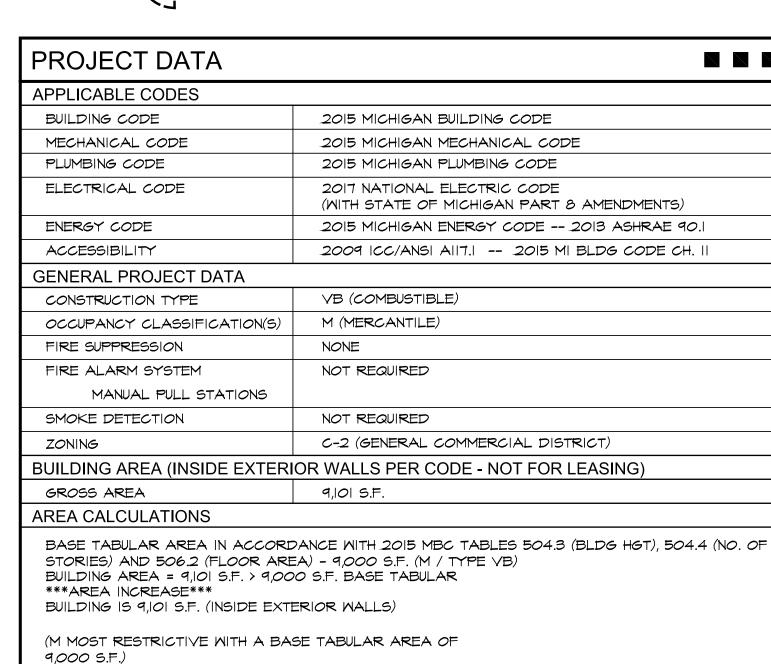




NARRATIVE

THIS BUILDING WAS LAST USED AS A MOTORCYCLE/ATV SHOWROOM AND SERVICE FACILITY (B) BUSINESS USE.

THE PROPOSED M (MERCANTILE) USE WILL CONSIST OF VENDOR 'BOOTHS' USED FOR RETAIL PURPOSES. AN ADDITIONAL RESTROOM IS BEING ADDED, COMPLIANT WITH WITH THE OCCUPANT LOAD, ALONG WITH A DRINKING FOUNTAIN AND MOP SINK. EXIT SIGNAGE AND EMERGENCY LIGHTING WILL ALSO BE INSTALLED.



If = (F/P - 0.25) * W/30

If = (424'-7"/424'-7" - 0.25) *20/30

Aa = 9,000 + (9,000*.50)Aa = 9,000 + 4,500

Aa = 13,500 S.F.

13,500 S.F. > 9,101 S.F. (OKAY)

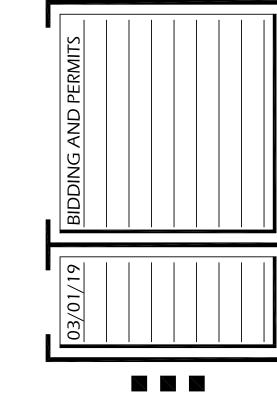
OCCUPANCY CALCULATIONS

GROUP 'M' OCCUPANCY GROUP 'M' FLOOR AREA: TABLE 1004.1.2:

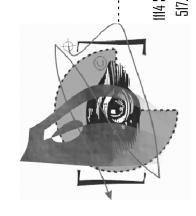
9,101 S.F. (GROSS) 60 (GROSS) S.F. / OCCUPANT

USE OCCUPANT LOAD: 9,101 (GROSS) S.F. / 60 = 151.6 OCCUPANTS TOTAL OCCUPANT LOAD: 152 OCCUPANTS

SHEET INDEX					
SHEET	SHEET DESCRIPTION	DATE			
IX	SHEET INDEX / CODE DATA / LOCATION MAP	03/01/19			
₽F	BARRIER FREE REFERENCE SHEET	03/01/19			
D-I	DEMOLITION PLAN / DEMOLITION NOTES	03/01/19			
A-I	FLOOR PLAN / ENLARGED PLAN / INTER. FINISH SCHEDULE / WALL CONST. KEY	03/01/19			
P-I	SANITARY PLAN / PIPING PLAN / PLUMBING NOTES / PLUMBING FIXTURE SCHEDULE	03/01/19			
E-I	GRAPHIC POWER & LIGHTING PLAN / ELECTRICAL NOTES / LIGHT FIXTURE SCHEDULE	03/01/19			
E-2	EMERGENCY LIGHTING PHOTOMETRIC PLAN	03/01/19			



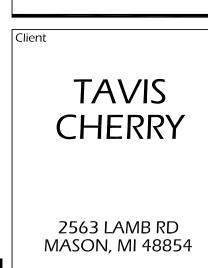
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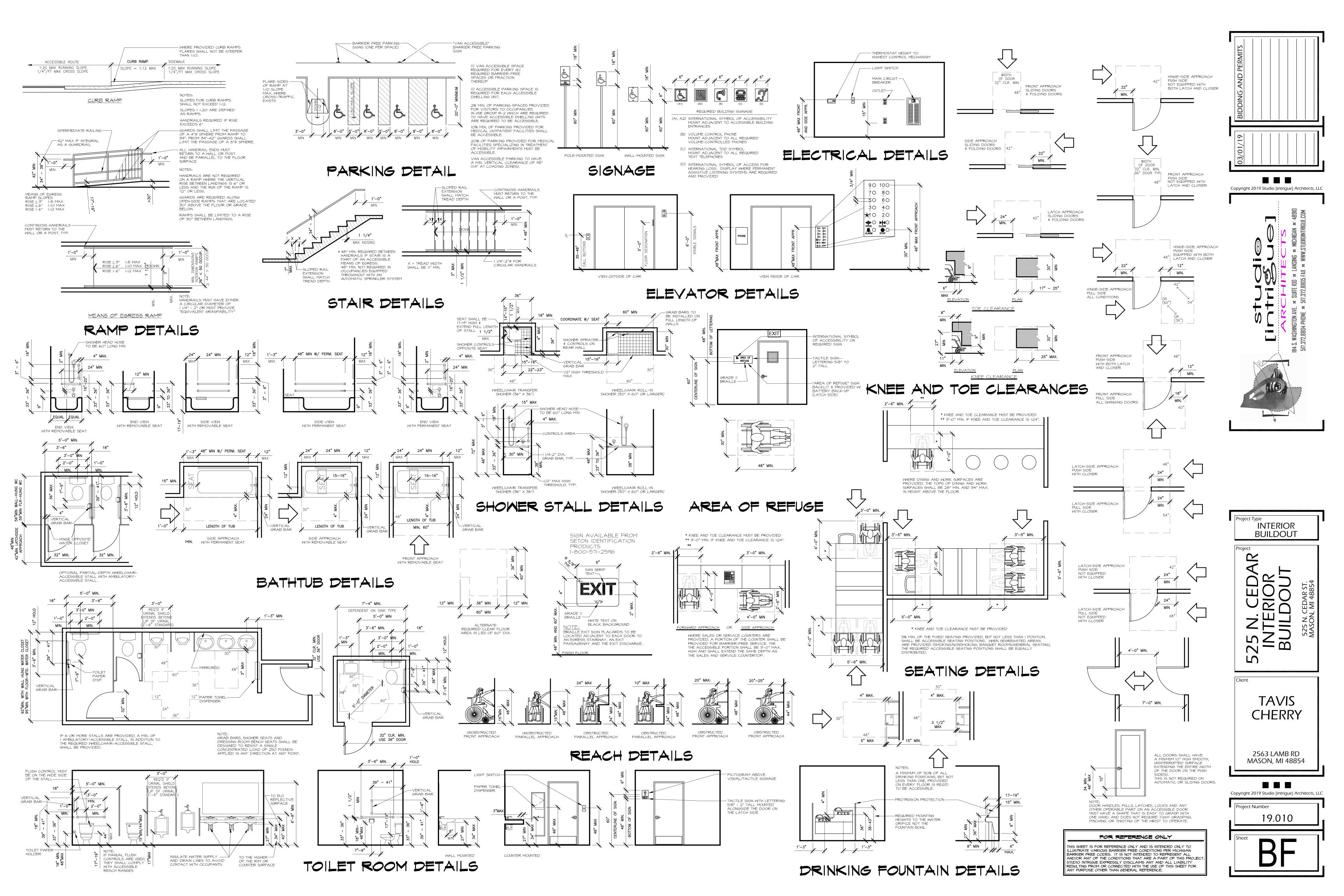


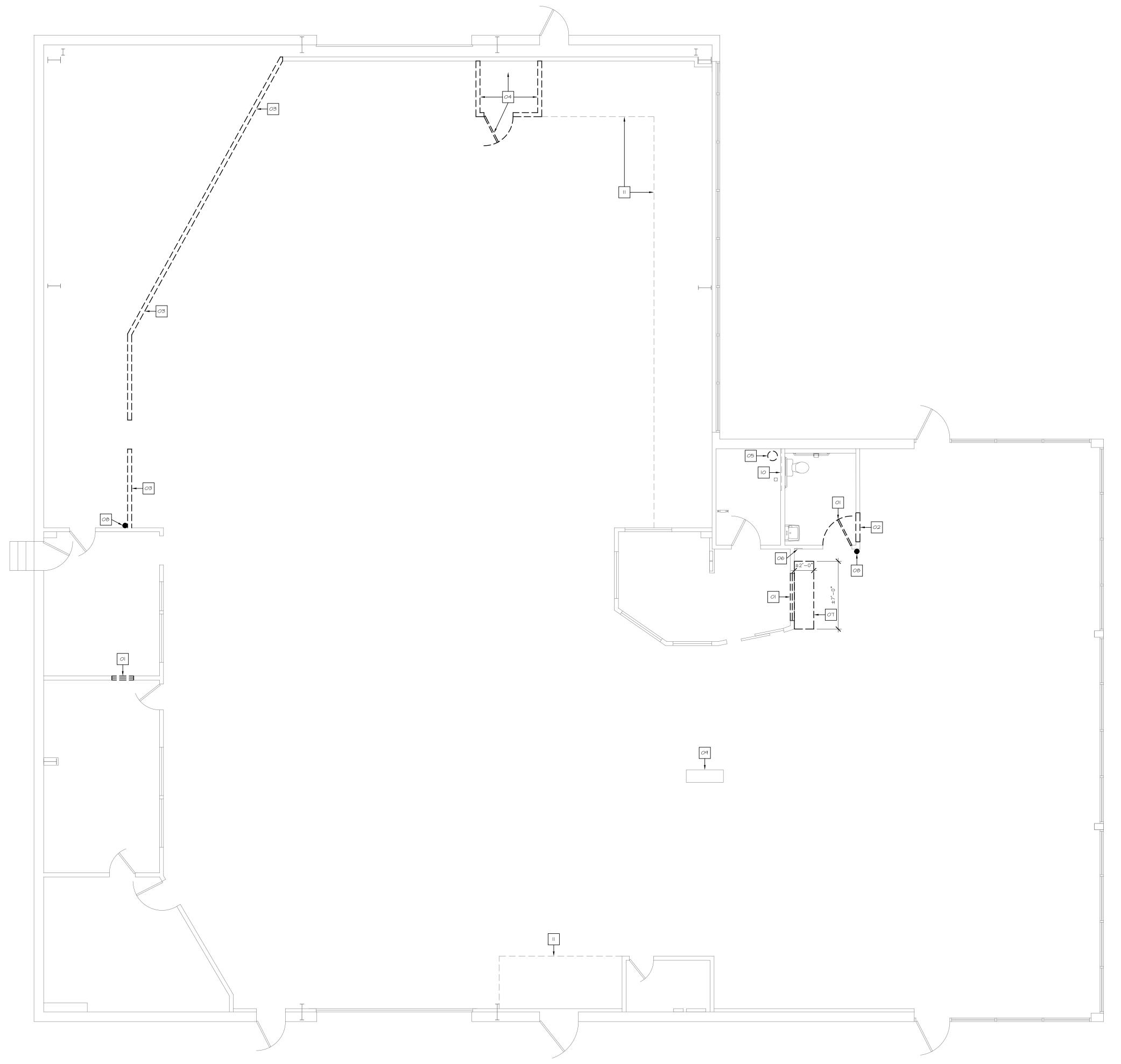
INTERIOR BUILDOUT

 \simeq $\vdash \equiv$



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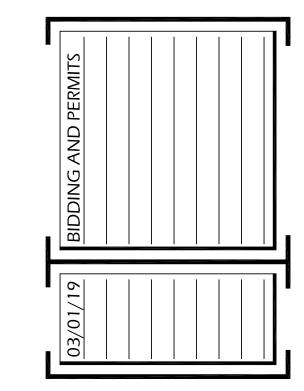
DEMOLITION PLAN NOTES KEY

- REMOVE EXISTING DOOR / WINDOW SYSTEM, AND PREPARE WALL FOR INFILL TO MATCH EXISTING WALL CONSTRUCTION.
- REMOVE EXISTING WALL AS REQUIRED PREPARE FOR INSTALLATION OF NEW DOOR. SEE SHEET A-I.
- 73 REMOVE EXISTING WALL CONSTRUCTION AS REQUIRED.
- REMOVE EXISTING WALL, DOOR + FRAME AND PORTION OF CEILING ABOVE AS REQUIRED. PREPARE AREA FOR NEW CONSTRUCTION. SEE SHEET A-I.
- REMOVE EXISTING WATER HEATER AND WATER LINES AS REQUIRED. SEE SHEET P-I FOR EXTENT OF NEW LAYOUT.
- EXISTING SANITARY AND PIPING EXPOSED. P.C. TO REMOVE
 AND CAP EXISTING LINES AS REQUIRED. PREPARE AREA FOR
 NEW CONSTRUCTION AS REQUIRED. V.I.F.
- REMOVE PORTION OF EXISTING CONCRETE SLAB AS REQUIRED FOR NEW SANITARY LAYOUT. SEE SHEET P-1.
- REMOVE, SALVAGE AND PREPARE EXISTING FIRE EXTINGUISHERS FOR REUSE AS REQUIRED.
- 9 EXISTING ENCLOSURE TO REMAIN.
- EXISTING STUDS AND PLUMBING EXPOSED. PREPARE WALL FRAMING FOR NEW DRYWALL PATCH AS REQUIRED. V.I.F.
- | EXISTING OVERHEAD PLATFORM TO REMAIN.

DEMOLITION NOTES

- ALL WORK ON THIS PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES.
- 2. ALL BIDDERS MUST VISIT THE SITE TO EXAMINE THE EXISTING CONDITIONS AND ANY OBSTACLES. NO ADDITIONAL PAYMENT WILL BE APPROVED BY THE OWNER FOR CONDITIONS AND/OR OBSTACLES THAT THE BIDDER COULD HAVE IDENTIFIED THROUGH THE REQUIRED SITE VISIT.
- 3. VERIFY EXISTING DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO REMOVING EXISTING CONSTRUCTION OR ORDERING OF MATERIALS.
- 4. VERIFY LOCATION OF ALL EXISTING UTILITIES--NOTIFY OWNER OF SCHEDULE TO TURN OFF ANY UTILITIES. DRAWINGS ARE NOT INTENDED TO SHOW THE LOCATION OF ANY UTILITIES.
- 5. BEFORE CONTRACTOR COMMENCES WITH DEMOLITION, HE SHALL CHECK WITH ALL LOCAL UTILITIES FOR VERIFICATION OF UNDERGROUND LINES. ALL UTILITIES SHALL BE COORDINATED BETWEEN EXISTING SERVICES, PROPOSED SERVICES AND UTILITY COMPANIES. ANY ABANDONED SERVICE SHALL BE TERMINATED ACCORDING TO THE UTILITY COMPANY'S REQUIREMENTS.
- 6. EXECUTE ALL DEMOLITION IN AN ORDERLY MANNER. PROTECT EXISTING BUILDING ELEMENTS AND UTILITIES THAT ARE TO REMAIN.
- 7. BARRICADE AND PROTECT WORK AREAS, ADJACENT WALKWAYS AND ACCESSES TO PROTECT WORKMEN, PEDESTRIANS, ADJACENT TENANTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL JOB SITE SAFETY PRECAUTIONS AND OBSERVATIONS.
- 8. AVOID ENCROACHMENT ON ADJACENT PROPERTIES OR TENANT SPACES. THE GENERAL CONTRACTOR SHALL REPLACE AND/OR REPAIR DAMAGE TO ADJACENT PROPERTIES OR TENANT SPACES RESULTING FROM ENCROACHMENT DURING CONSTRUCTION OPERATIONS.
- 9. THE GENERAL CONTRACTOR SHALL VISIT THE SITE WITH THE OWNER'S REPRESENTATIVE TO AUDIT ITEMS TO BE SALVAGED TO THE OWNER AND PROTECTED/STORED FOR REINSTALLATION.
- IO. ALL ITEMS THAT ARE NOT BEING SALVAGED TO THE OWNER OR REINSTALLED SHALL BECOME THE PROPERTY OF THE GENERAL CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE. DO NOT STORE OR PERMIT MATERIAL TO ACCUMULATE ON SITE.
- II. MATERIALS REMOVED UNDER THIS CONTRACT SHALL NOT BE ADVERTISED FOR SALE AT THE JOB SITE.
- 12. KEEP ALL DRIVE LANES AND BUILDING EXITS CLEAN AND CLEAR AT ALL TIMES.
- 13. ELECTRICAL SYSTEMS AND OTHER UTILITIES THAT ARE IN CONSTRUCTION NOTED TO BE DEMOLISHED SHALL BE REMOVED BACK TO THE SOURCE--DO NOT ABANDON.
- 14. STRUCTURAL COMPONENTS SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ARCHITECT.
- 15. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GENERAL CLEANING DUTIES TO REMOVE ALL DEBRIS ASSOCIATED WITH THE DEMOLITION INCLUDING, BUT NOT LIMITED TO: LOT SWEEPING, INSPECTION / REPLACEMENT OF HVAC FILTERS, DUSTING, WINDOW CLEANING, ETC.

_		
	WALL LEGEND	
		EXISTING TO REMAIN
		TO BE DEMOLISHED



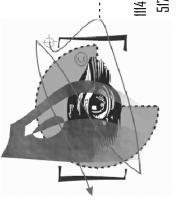
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STCHITECTS

ARCHITECTS

ARCHITECTS

S. WASHINGTON AVE. * SUITE 100 * LANSING * MICHIGAN * 48910



Project Type
INTERIOR
BUILDOUT

525 N. CEDAR TO INTERIOR BUILDOUT

TAVIS

2563 LAMB RD MASON, MI 48854

CHERRY

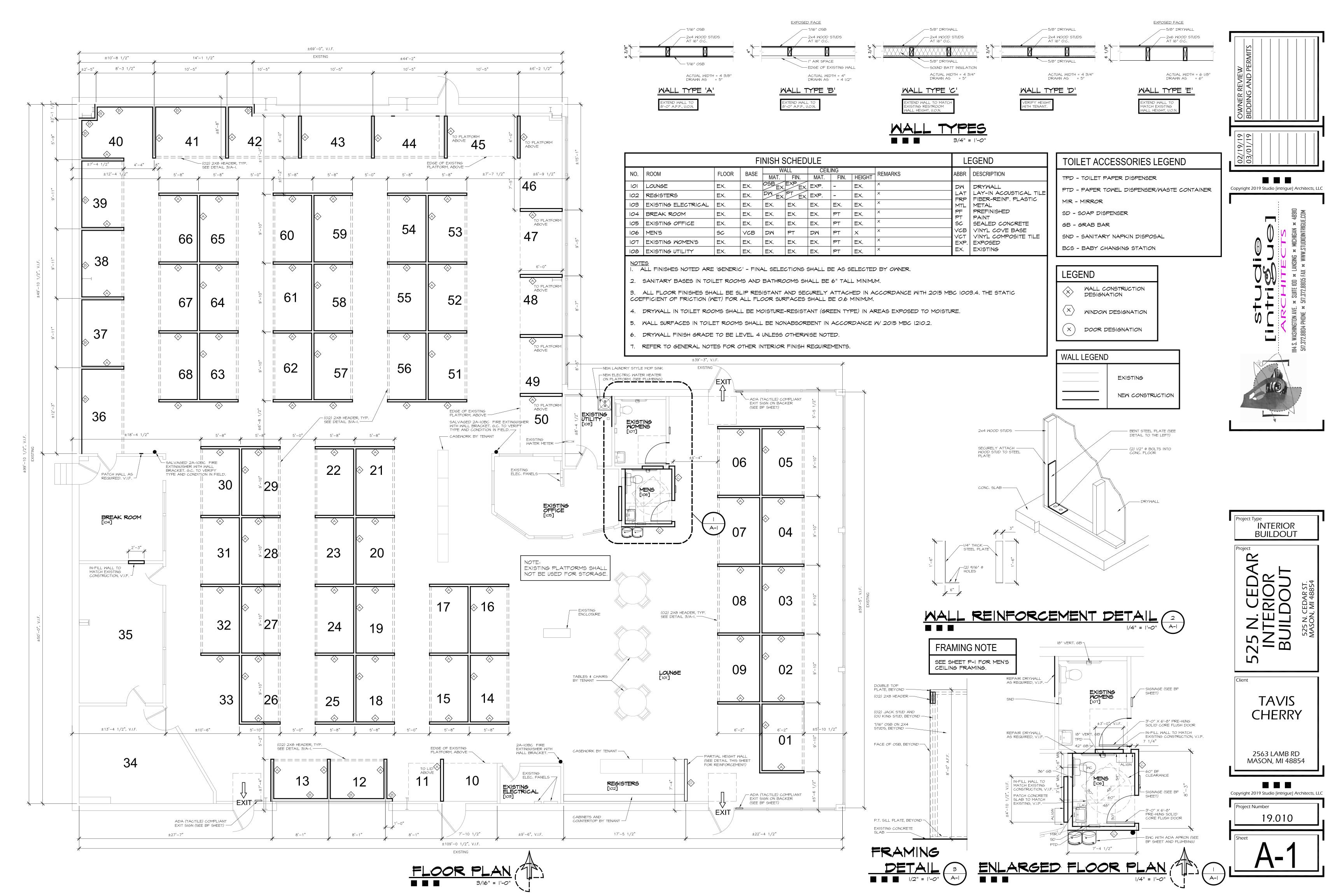
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Project Number

19.010

D-1



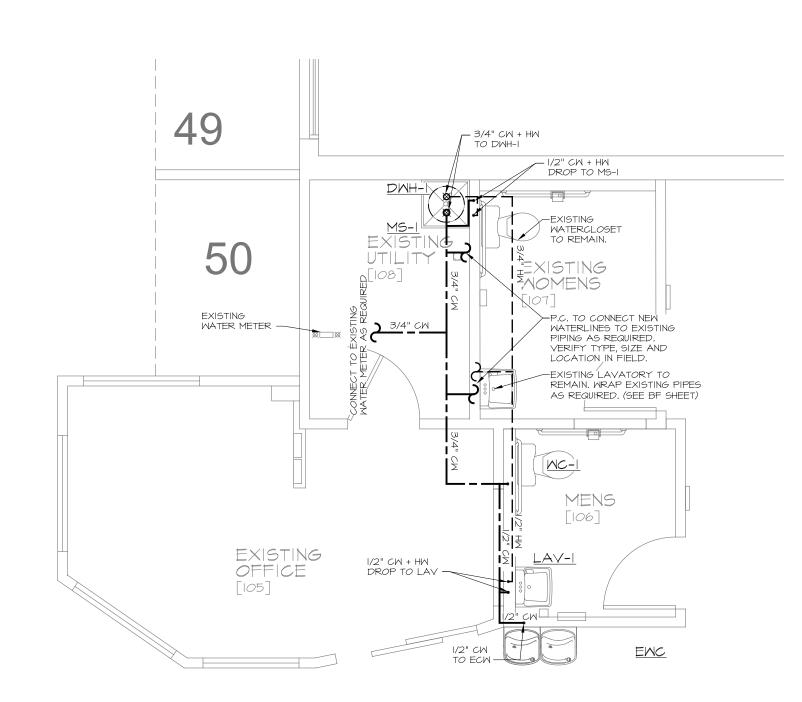


	PLUMBING FIXTURE SCHEDULE					
TAG	FIXTURE	MANUFACTURER	MODEL NO.	COLOR	FITTINGS & ACCESSORIES	NOTES
LAV-I	LAVATORY WALL HUNG UNIT	AMERICAN STANDARD	COMRADE #0124.024	MHITE	DELTA #520-MPU	
MC-I	ADA-COMPLIANT ELONGATED BOWL	AMERICAN STANDARD	CHAMPION 4 RIGHT HEIGHT ELONGATED 2002.014	MHITE	CHROME PLATED TRIP LEVER/ TOILET SEAT WITHOUT COVER	PROVIDE RIGHT OR LEFT HAND TRIP LEVER AS REQUIRED BY ADA
DMH-I	DOMESTIC WATER HEATER	BRADFORDWHITE	REI6U6-INAL		T&P RELIEF VALVE	6 GALLON / I500W ELECTRIC
EMC-I	ELECTRIC WATER COOLER HI/LOW	ELKAY	LZSTL85C	STAINLESS		ORDER PART #LKAPREZL TO COMPLY WITH ADA REQUIREMENTS
MS	MOP SINK	-	-	MHITE	-	TUB STYLE

NOTE: CONTRACTORS TO PROVIDE RIGHT HAND OR LEFT HAND FLUSH VALVE OR TRIP LEVER AS REQUIRED BY BARRIER FREE CODE.

PLUMBING FIXTURE NOTE

PLUMBING FIXTURES LISTED ARE BASIS OF DESIGN. APPROVED EQUIVALENTS MAY BE SUBSTITUTED. VERIFY WITH TENANT.



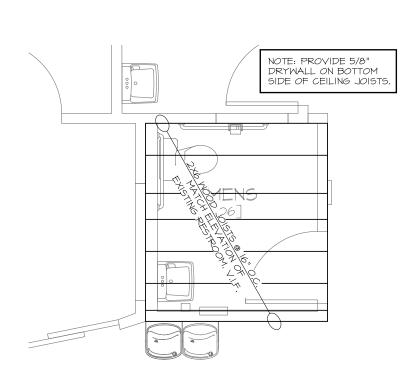
PIPING PLAN

SANITARY NOTE

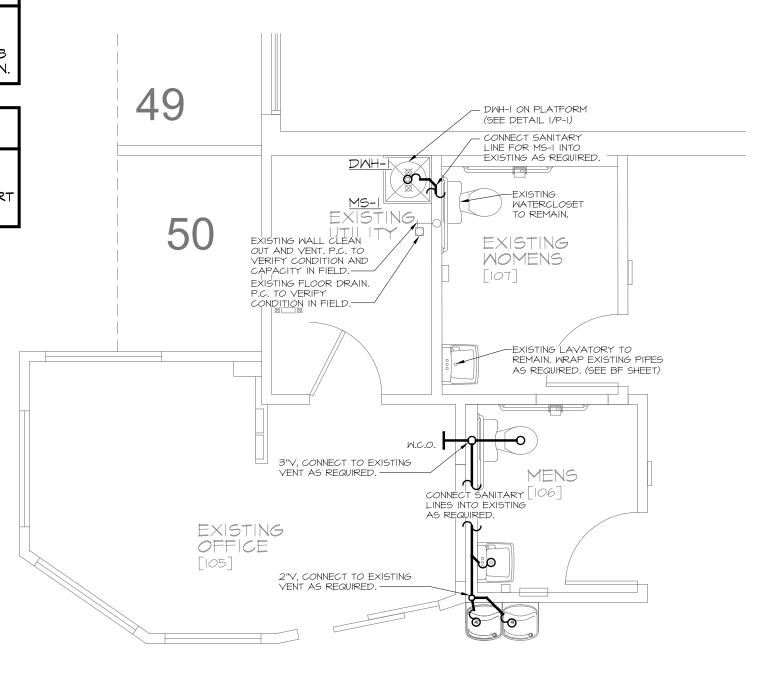
P.C. TO VERIFY LOCATION OF EXISTING SANITARY UNDER CONCRETE SLAB AND COORDINATE EXTENT OF CONCRETE SLAB REMOVAL FOR PROPOSED CONSTRUCTION.

RESTROOM CEILING NOTE

PROPOSED CEILING SHALL NOT BE USED FOR STORAGE ABOVE. THE FRAMING MEMBERS ARE NOT DESIGNED TO SUPPORT ANY ADDITIONAL LOADS.









PLUMBING NOTES

PROVIDE 1/2" CM TO MATER CLOSETS; 1/2" CM & HM TO LAVATORIES. 1/2" MATER LINE SHALL ONLY SUPPLY ONE FIXTURE..

SHUT-OFF VALVES SHALL BE INSTALLED AT EACH FIXTURE.

PROVIDE WATER HAMMER PROTECTION AS REQUIRED.

THE WATER SUPPLY BRANCH SHALL HAVE A VALVE NEAR EACH DOMESTIC WATER

ALL WATER PIPING SHALL BE INSULATED.

WRAP ALL WATER PIPES & SANITARY TRAPS

ALL WATER LINES IN EXTERIOR WALLS SHALL BE HELD ON THE "WARM" SIDE OF THE INSULATION

BELOW SINKS & LAVS PER SHEET BF.

ALL WATER PIPING SHALL BE RUN WITHIN THE CEILING FRAMING UNLESS NOTED OTHERWISE.

MIXING VALVES SHALL BE INSTALLED AT ALL LAVS, SINKS & SHOWERS TO LIMIT THE WATER TEMP TO 110° F.

THE WATER HEATER SHALL HAVE A MINIMUM ENERGY FACTOR OF 0.93 (Et) AND MEET DOE-10-CFR PART 430 TESTING

THE P.C. SHALL PROVIDE INSULATED HEAT TRAP ON OUTLET OF WATER HEATER.

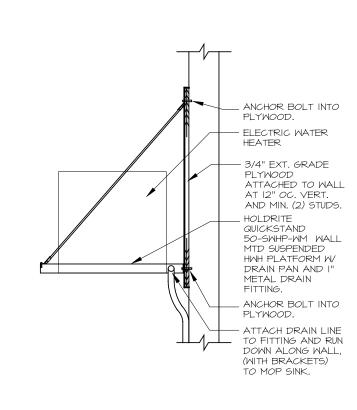
ALL WATER PIPING SHALL BE INSULATED COPPER. PEX MAY NOT BE SUBSTITUTED.

ALL WATER PIPING IS SIZED ASSUMING COPPER PIPING AND TANK TYPE WATER CLOSETS. IF FLUSH VALVE WATER CLOSETS AND PEX PIPING ARE SUBSTITUTED; P.C. SHALL ENLARGED PIPING DIAMETERS TO ACCOMMODATE.

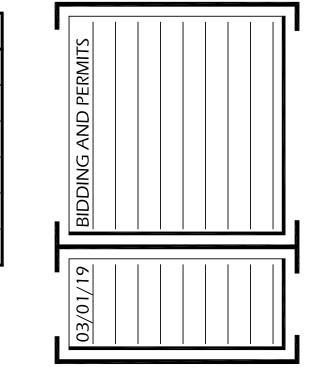
PLUMBING LEGEND

REQUIREMENTS.

		SANITARY LINE	
		COLD WATER (CW)	
	——	HOT MATER (HM)	
FD		FLOOR DRAIN	
MC		MATER CLOSET	
LAV		LAVATORY	
MS		MOP SINK	
ENC		ELECTRIC WATER COOLER	
—)	FIXTURE TRAP	
(NO NO	\ /	DOMESTIC WATER HEATER	

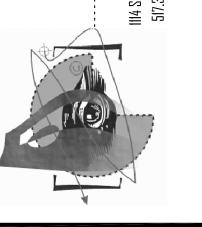






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STCAIR WW.STUDIDINTRIGUE.CDM



Project Type
INTERIOR
BUILDOUT

525 N. CEDAR INTERIOR BUILDOUT

TAVIS
CHERRY

2563 LAMB RD
MASON, MI 48854

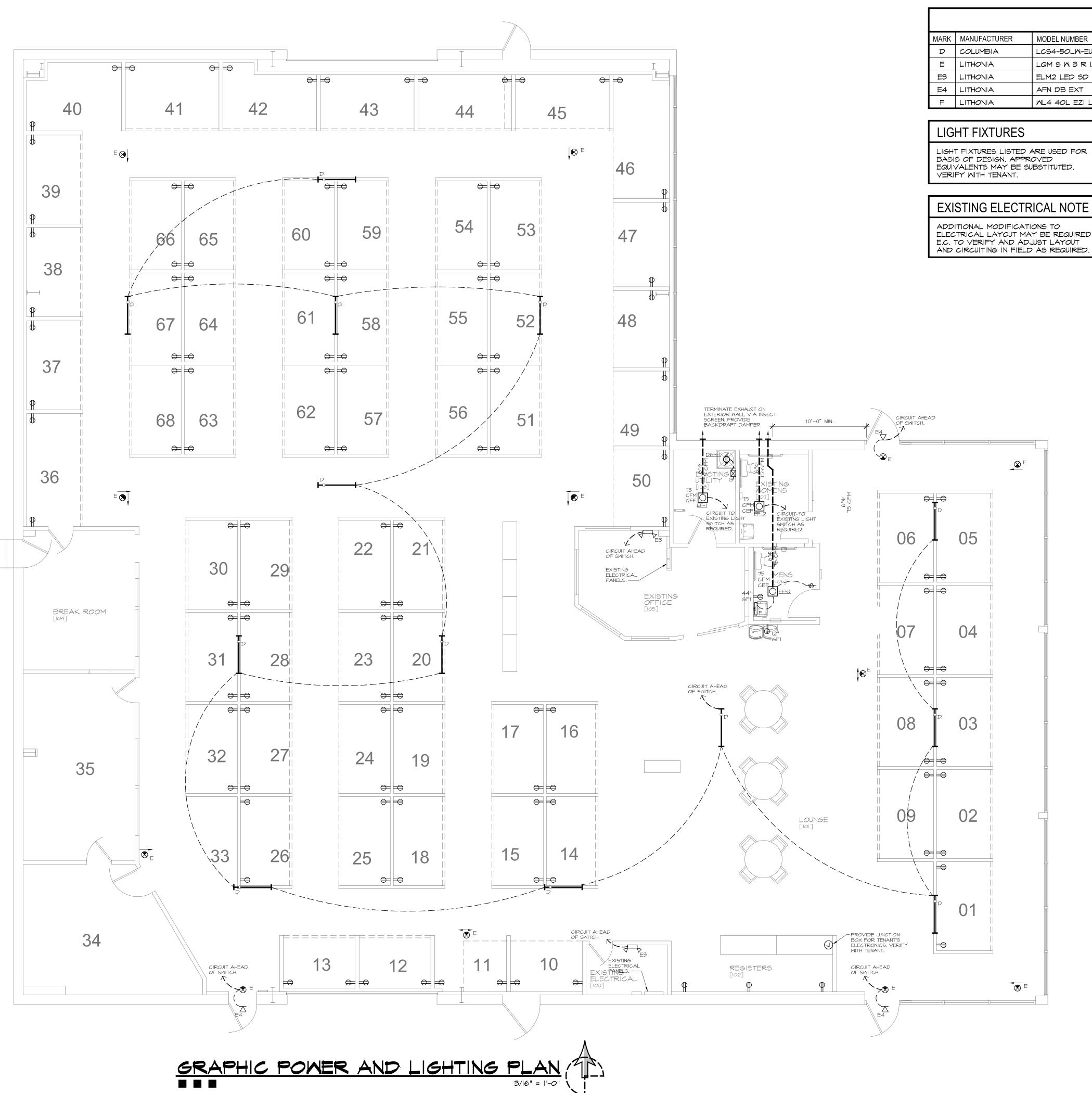
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Project Number

19.010

Sheet

P-1



LIGHT FIXTURE SCHEDULE								
MARK	MANUFACTURER	MODEL NUMBER	LAMPING	REMARKS				
D	COLUMBIA	LCS4-50LW-EU-ELLII4	19M 3000K LED	STRIP LIGHT SUSPENDED WITH CABLE FOR EMERGENCY LIGHTING ONLY. COORDINATE HEIGHT EXISTING SUSPENDED LIGHT FIXTURES.				
E	LITHONIA	LQM 5 M 3 R 120/277 EL N	LED	EXIT W (I) FACE				
E3	LITHONIA	ELM2 LED SD	LED	EMERGENCY LIGHT UNIT				
E4	LITHONIA	AFN DB EXT	2-6W WEDGE BASE XENON	EXTERIOR EGRESS EXIT LIGHTS				
=	LITHONIA	WL4 40L EZI LP830	39.5W LED	WALL MOUNT VANITY LIGHT				

LIGHT FIXTURES LISTED ARE USED FOR

ELECTRICAL LAYOUT MAY BE REQUIRED. E.C. TO VERIFY AND ADJUST LAYOUT

ELECTRICAL NOTES

- ALL ELECTRICAL WORK INCLUDING INSTALLING CONDUIT, WIRE, LIGHTING, PANELS BOARDS, ETC. SHALL BE INSTALLED BY A LICENSED REPRESENTATIVE OF THE ELECTRICAL CONTRACTOR \$ INSPECTED PRIOR TO COVERING.
- 2. LISTED OR LABELED EQUIPMENT SHALL BE USED AND INSTALLED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING.
- 3. THE METAL GAS PIPING SYSTEM SHALL BE ELECTRICALLY CONTINUOUS AND BONDED TO THE GROUNDING ELECTRODE.
- 4. THE LABELING OF THE BRANCH CIRCUITS, FEEDERS AND DISCONNECTS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- 5. VERIFY THE REQUIRED A.I.C. RATING W/ THE LOCAL UTILITY COMPANY.
- 6. NONMETALLIC SHEATHED CABLE (WHERE PERMITTED BY CODE) SHALL NOT BE INSTALLED ABOVE THE SUSPENDED CEILING. ALL RUNS ABOVE THE CEILING SHALL BE IN FLEXIBLE METAL CONDUIT,
- ALL CONDUCTORS SHALL BE COPPER.
- 8. PROVIDE LIGHTING SENSORS AND CONTROLS IN ACCORDANCE WITH TABLE 9.6.1 OF ASHRAE 90.1 - 2013 OF THE MICHIGAN ENERGY CODE.
- 9. THE E.C. SHALL PROVIDE ALL SWITCHING & FINAL CONNECTIONS TO THE M.C.'S EXHAUST FANS.
- 10. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES AND FOOD PREP AREAS SHALL BE GFI OR GFI CIRCUIT
- ALL SERVICES AND PANEL FEEDS SHALL BE IN RIGID EMT -ALL BRANCHES SHALL BE IN MC CABLE.

HVAC NOTES

A. EF-I, EF-2, EF-3 75 CFM

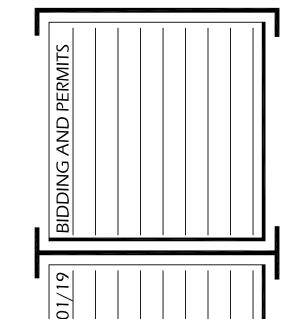
B. ALL EXHAUST FANS SHALL BE PROVIDED & INSTALLED BY THE M.C.

ALL EXHAUST FAN DUCTS SHALL BE TERMINATED TO THE EXTERIOR OF THE BUILDING ENVELOPE VIA A MEATHER PROOF ENCLOSURE. TERMINATING INTO THE ATTIC SHALL NOT BE PERMITTED. SEE NOTES ON THIS SHEET.

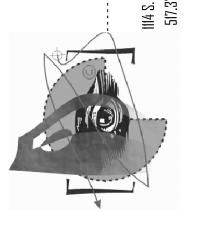
ELECTRICAL LEGEND						
\Rightarrow	DUPLEX RECEPTACLE					
∕ ∕	MOTOR (I PH)					
4	DISCONNECT					
GFI	GROUND FAULT CIRCUIT INTERRUPTER					
A.F.F.	ABOVE FINISHED FLOOR					
(J)	JUNCTION BOX					

LIGHTING	LIGHTING LEGEND					
\$	SINGLE POLE SWITCH					
\$ _{0.5.}	OCCUPANCY SENSOR SWITCH					
⊢ "	SUSPENDED EMERGENCY STRIP LIGHT					
E 🕸	EXIT SIGN					
E2	EXIT LIGHT MITH HEADS					
E3	EMERGENCY LIGHT					
E4Z	EXTERIOR WALL PACK (EMERGENCY)					
F □	VANITY WALL SCONCE					

EXHAUST DUCT CEILING EXHAUST FAN



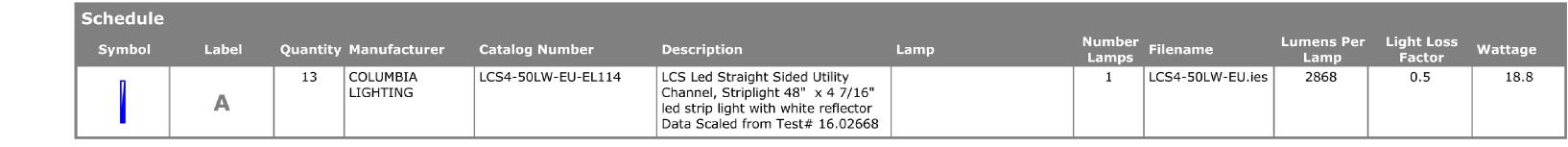
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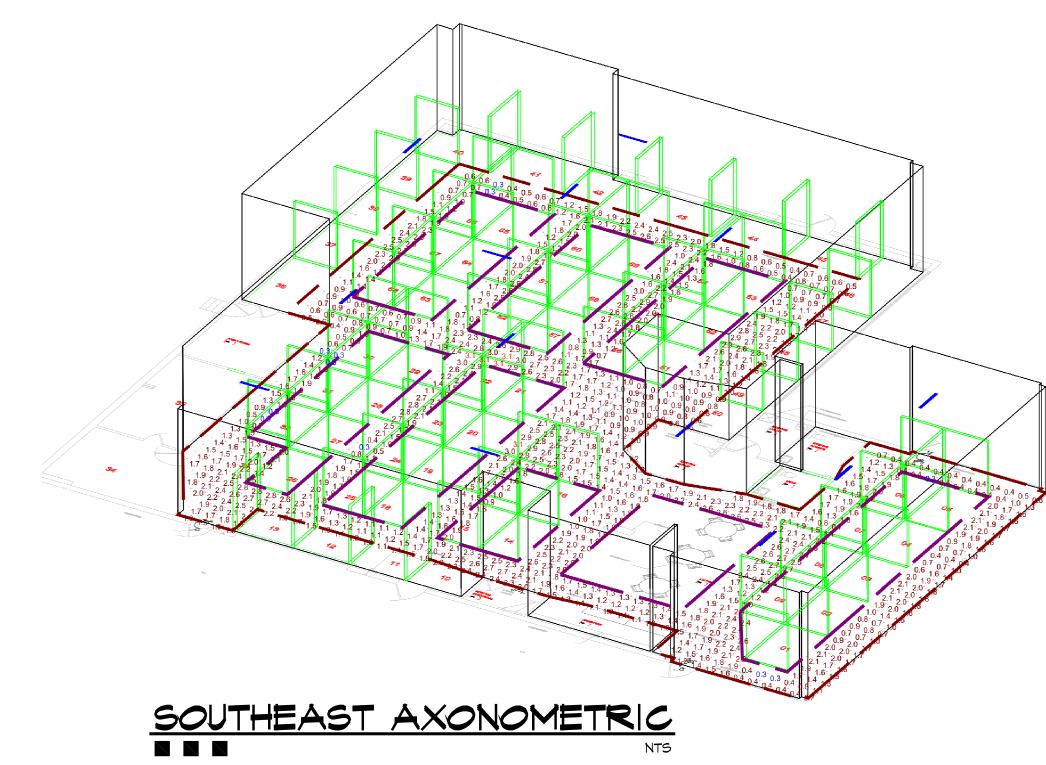


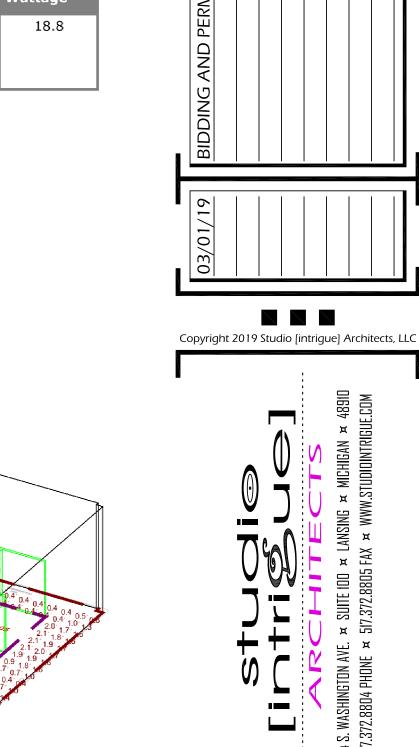
INTERIOR BUILDOUT

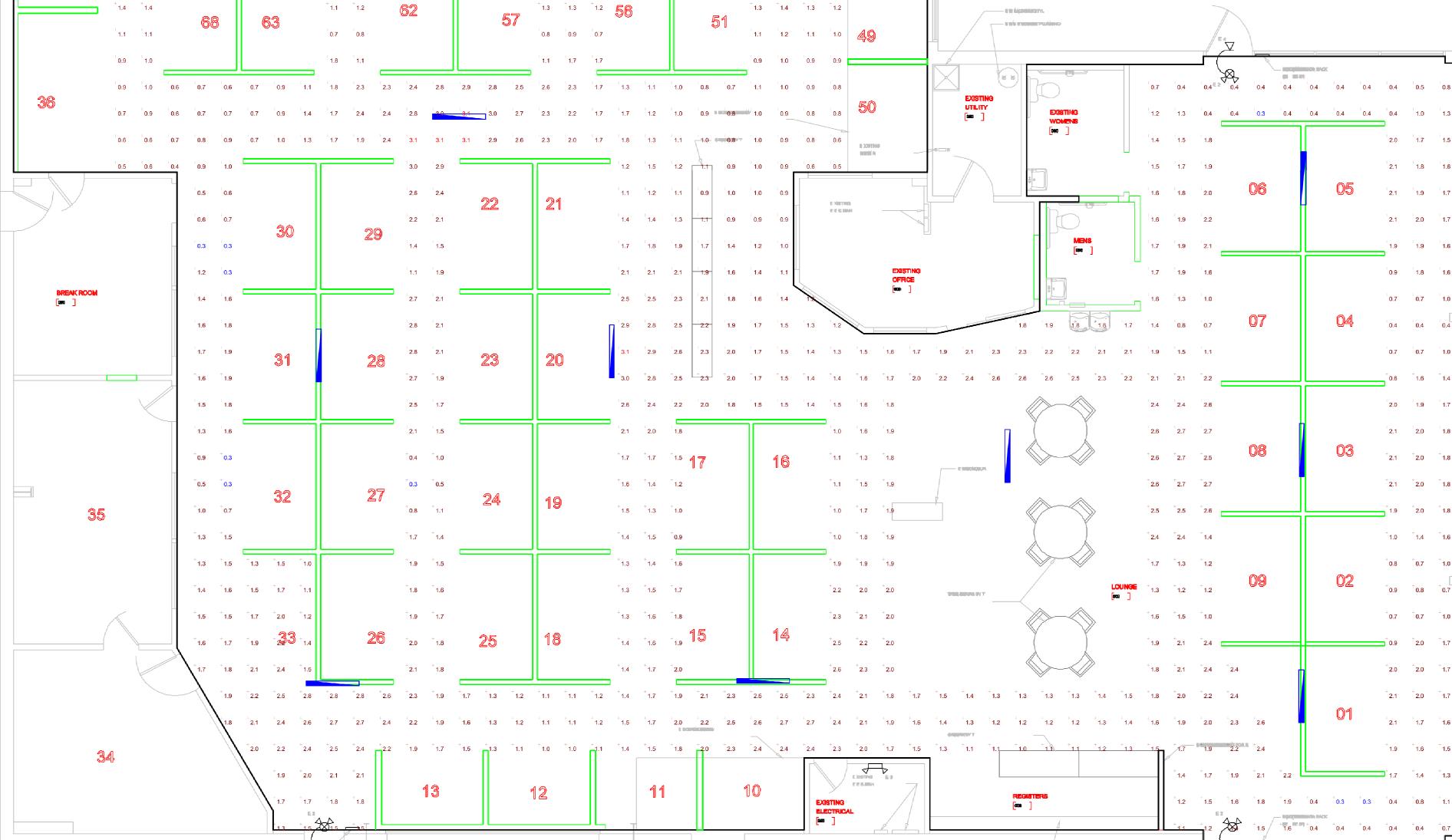
TAVIS CHERRY 2563 LAMB RD MASON, MI 48854

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1.5 1.5 1.4 1.2

⁺1.9 ⁺1.8 ⁺1.7 ⁺1.4

⁺2.6 ⁺2.4 ⁺2.1 ⁺1.8

1.7 1.7 1.6 1.4

⁺1.8 ⁺1.5 ⁺1.3 **5**4

1.6 2.2 1.8

2.5 + 2.9 + 2.0

2.6 2.6 2.0

⁺2.7 ⁺2.6 ⁺1.8

1.3 2.4 1.7

1.1 1.1 1.6

⁺1.8 ⁺1.9

2.3 2.5

⁺1.8 ⁺1.7

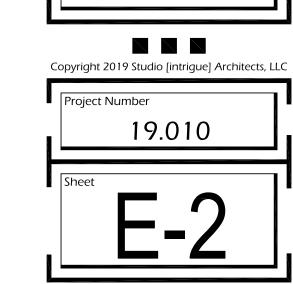
1.7 + 2.6

1.2 1.0

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.6 fc	3.1 fc	0.3 fc	10.3:1	5.3:1

Lun	Luminaire Locations									
	Location								Aim	
No.	Label	х	Υ	Z	мн	Orientation	Tilt	X	Υ	Z
2	Α	407.20	43.51	14.00	14.00	0.00	0.00	407.20	43.51	0.00
4	Α	451.13	43.60	14.00	14.00	0.00	0.00	451.13	43.60	0.00
5	Α	418.93	7.51	14.00	14.00	0.00	0.00	418.93	7.51	0.00
7	Α	441.06	7.81	14.00	14.00	0.00	0.00	441.06	7.81	0.00
9	Α	493.16	0.37	14.00	14.00	0.00	0.00	493.16	0.37	0.00
11	Α	470.94	-0.07	14.00	14.00	0.00	0.00	470.94	-0.07	0.00
12	Α	493.12	-18.21	14.00	14.00	0.00	0.00	493.12	-18.21	0.00
13	Α	429.69	58.56	14.00	14.00	90.00	0.00	429.69	58.56	0.00
14	Α	429.51	25.56	14.00	14.00	90.00	0.00	429.51	25.56	0.00
15	Α	419.98	-17.26	14.00	14.00	90.00	0.00	419.98	-17.26	0.00
16	Α	452.46	-17.06	14.00	14.00	90.00	0.00	452.46	-17.06	0.00
17	Α	493.29	20.94	14.00	14.00	180.00	0.00	493.29	20.94	0.00
18	Α	429.47	43.43	14.00	14.00	0.00	0.00	429.47	43.43	0.00





2563 LAMB RD MASON, MI 48854

EMERGENCY LIGHTING PHOTOMETRIC PLAN



City Manager's Report: May 3, 2019

ACTIVE PROJECTS STATUS UPDATES (PROJECTS NOT COORDINATED BY THE CITY)

Project Name	Status
318 W. Kipp - Klavon's 228 W. Kipp - Klavon's	A Temporary Certificate of Occupancy has been issued. They are open for business! Staff anticipates a Special Use/Site Plan Application for the development of the overflow parking lot in the near future.
322 S. Jefferson Commercial Bank – Downtown Mason	Two building permits are active for interior and exterior renovations to restore two entrance doors on Jefferson St.; replace door and add concrete pad at alley entrance. A third building permit is being issued for renovation of the upstairs offices.
402 S. Jefferson (former Baja Grill)	Grant Agreement has been signed. The building permit is under review.
201 W. Ash City Hall	Anticipate installation of T-Mobile equipment to begin this spring
154 W. Maple (former shoe store)	Building permit has been issued. A Right of Way Permit is under review which will include a temporary easement to use the vacant lot at the alley/Jefferson Street for staging of equipment for the project. A Letter of Intent is being issued for support of the project at a lower amount than requested. Developer is evaluating the feasibility of the project.
600 Buhl St. Ingham Animal Shelter	Building permit active for new construction.
652 Hull Rd New Goodwill	Staff anticipates a building permit application once supplemental permits from the State and County have been obtained.
400 S. Cedar St Harvey Education Center / Mason Public Schools	State building permit active for construction of new addition as part of the Phase 1 Bond Project. More information available at: http://bondprojects.masonk12.net/ .
801 N. Cedar St. (City Limits)	City Limits, has requested final site plan approval to construct a 4,828 square foot addition along with additional parking. The project is expected to be reviewed by the Planning Commission at their regular meeting on May 14.
Ash/Cedar (M-36) - MDOT	MDOT has started the signal upgrade project at the intersection of Ash and Cedar (M-36) next week. The Contractor completed installation of the signal foundations. The signals themselves and the sidewalk work will take place at a later time TBD. This 2nd phase of work will take approximately 1-2 weeks and will have the following traffic impacts: Periodic daily lane closures on M-36 for the Contractor to perform the work. The intersection will not be closed at any time and traffic will be maintained through the intersection.
Howell/Okemos Rd intersection – Ingham County Road Department	ICRD is installing a four-way stop with flashers at this intersection.
SUBDIVISIONS	Subdivisions require three stages of approval before site plan approval and building permits can be issued: (1) Tentative Preliminary Plat, (2) Final Preliminary Plat, (3) Final Plat.
Enclave at Rayner Ponds Subdivision (19 lots, 1 park)	The City has approved a Tentative Preliminary Plat (Stage 1) and is waiting to receive an application for Final Preliminary Plat (Stage 2).
Rayner Ponds — Phase 4 Subdivision (16 lots)	The City approved a Tentative Preliminary Plat in January of 2018 (Stage 1). Staff received an application for Final Preliminary Plat (Stage 2) in December of 2018. A public hearing was held by the Planning Commission on January 15 resulting in a recommendation for approval to City Council. City Council approved the Final Preliminary Plat on January 21, 2019. The applicant will submit a Final Plat for approval (Stage 3) next.

OPERATIONS AND COMMUNITY RELATIONS

- The Code Enforcement Officer position has been moved to Community Development from the Police Department.
- On April 11th Crp. Mentink and Off. Bradley attended a 1-day formal training in police report construction and

- communication to gain additional skills and in current and best practices.
- On April 16th Off. Michele, Cert. Taser Instructor, attended a 1-day course in Michigan Taser Laws and current Policy to enhance his credential as a Taser and use-of –force instructor.
- On April 18th Off. Flores attended a 2-hour seminar to assist in recognizing and working with those with Autism who may have police contacts.
- The Police and Fire Departments responded to a fire at 622 Hall Boulevard on May 3, 2019. The City received mutual aid from Delhi Township Fire Department, Dansville Fire & Rescue, Leslie Fire Department, and Meridian Township Fire Department's RIT Team. There were no injuries, but the house is a total loss.

Staffing Updates:

- New Hires/Promotions: David Latter started as a Seasonal-Temporary Laborer May 1, 2019.
- Departures:
 - Charles Goeke, Code Enforcement Officer Last Day 4/12/2019
 - Daniel Kennedy, Volunteer Fire Fighter Last Day 4/18/2019
 - Bryan Keeler, Police Officer Last Day 4/29/2019
- Open Positions: Seasonal-Temporary Laborer All offers have been made pre-employment screening is being conducted.
 Full-Time Laborer position closed April 17 and applications are under review. Part-Time Custodian position closed May 1 and applications are under review.

LARGE CITY PROJECTS

FY 2018-2019							
Project	Project Name/Description	Status	Completed				
STREETS, SIDE	WALKS, BRIDGES (S)						
2017-S6	South St - Northbrook to City Limits	Complete	Sep				
2017-S7	Avon Street - All	Complete	Sep				
2017-S8	Northbrook - South to Carom Circle	Complete	Sep				
2017-S9	S. Jefferson - Oak Street to Kipp Road	Cannot begin construction before June 9 per contract. Pre-Con meeting scheduled for May 8.					
2017-S10	Sidewalk Program – Downtown and Summerwood	Work downtown nearing completion; Summerwood will begin after downtown.					
2018-S1	MDOT- Temple Street Safety Grant	MDOT Grade Inspection completed. Awaiting MDOT comments and authorization to bid.					
2018-S32	Columbia - Cedar to US 127	Complete	Sep				
UTILITIES: SAN	NITARY SEWER, STORM WATER, AND W	ATER DISTRIBUTION (U)					
2018-U1	Utilities for Properties on Kipp Road	Complete	Sep				
2017-U3.2	Waste Water Treatment Plant Upgrades	Complete	Oct				
2017-U3.3	Design of the New DPW Facility	Delayed until future FY (2019-2020)	N/A				
2017-U6	Abandon Wells by Airport	Delayed until future FY (2021-2022)	N/A				
2017-U9	Northbrook - South to Carom Circle	Complete	Sep				
2017-U10	S. Jefferson - Oak St to Kipp Road	See 2017-S9 above					
2017-U12	300,000 G Storage Tank Top Sealing	Removed, included with WWTP Upgrade Project	N/A				
2017-U13	Well No. 7 Rebuild	Well work is complete. Motor drive is on order.					
2017-U15	Replace Two Fire Hydrants Behind Mason Plaza	Delayed until future FY (2019-2020)	N/A				
2017-U16	Cathodic Protection for Ground Storage Tank	Delayed until future FY (2020-2021)	N/A				
2017-U17	High Service Pump No. 1 Rebuild	Complete	Mar				
2017-U18	Replace Chlorine Analyzer	Complete	Aug				
2018-U35	BS&A Work Order Application	Award of project anticipated in May					
2018-U36	Sewer Push Camera Replacement	Complete	Nov				
2018-U37	Log Jam Removal Sycamore Creek	Complete	Nov				
PARKS/ CEME	TERY/ FORESTRY/ NONMOTORIZED (P)						
2017-P8	Laylin Park Improvements	Staff is evaluating final work priorities for the spring.					

2018-P1	Howell Road - Hayhoe Riverwalk (Dart Trailhead)	Complete	Nov
2018-P2	Howell Road - Hayhoe Riverwalk Trail Extension	Complete	Nov
2018-P3	Planning: 5 yr Parks/Recreation Plan; Bond Park Improvements	City Council approved contract award to LAP on May 6. Staff is executing contract and anticipates project kick-off this month.	
2018-P5	City Tree Evaluation	Notice to Proceed & Contract signed; Pre-Evaluation Meeting held on April 30.	
MOTOR VEHIC	LE POOL (MVP)		
2017-MVP6	1/2 Ton 2x4 Pickup Truck	Complete	Sep
2017-MVP7	Mower	Complete	Jul
2017-MVP8	Police Cars	Complete	Jan
2017-MVP9	Large Items (Leaf Vacuum)	Complete	Nov
2017-MVP10	5-yard Dump/Plow Truck	Complete (Build Out with Equipment Next Year)	May
2017-MVP18	Command Vehicle	Complete	Oct
2017-MVP30	Front End Material Loader	Complete	Nov
		·	
BUILDING, PRO	PERTY, EQUIPMENT (B)		
BUILDING, PRO 2017-B1	PPERTY, EQUIPMENT (B) Library- Facility Evaluation	The concept design is being revised and finalized based upon public feedback. The project will be prepared to move forward to the final design and construction phases once funding has been confirmed.	
		based upon public feedback. The project will be prepared to move forward to the final design and construction phases once funding has been	Oct
2017-B1	Library- Facility Evaluation	based upon public feedback. The project will be prepared to move forward to the final design and construction phases once funding has been confirmed.	
2017-B1 2017-B3.1	Library- Facility Evaluation Police: Portable Radios	based upon public feedback. The project will be prepared to move forward to the final design and construction phases once funding has been confirmed. Complete Phase 1 completed. Phase 2/3 scheduled for the	
2017-B1 2017-B3.1 2017-B4	Library- Facility Evaluation Police: Portable Radios City Hall Landscaping and Lighting	based upon public feedback. The project will be prepared to move forward to the final design and construction phases once funding has been confirmed. Complete Phase 1 completed. Phase 2/3 scheduled for the spring as time and budget allows.	
2017-B1 2017-B3.1 2017-B4 2017-B6	Police: Portable Radios City Hall Landscaping and Lighting Fire: Fire Engine 809/Tower 808	based upon public feedback. The project will be prepared to move forward to the final design and construction phases once funding has been confirmed. Complete Phase 1 completed. Phase 2/3 scheduled for the spring as time and budget allows. Truck is on order; completion anticipated 2020	
2017-B1 2017-B3.1 2017-B4 2017-B6 2018-B4	Police: Portable Radios City Hall Landscaping and Lighting Fire: Fire Engine 809/Tower 808 IT: BS&A Timesheet Program IT: BS&A Cemetery and HR Upgrade IT: AV Room Technology Patch	based upon public feedback. The project will be prepared to move forward to the final design and construction phases once funding has been confirmed. Complete Phase 1 completed. Phase 2/3 scheduled for the spring as time and budget allows. Truck is on order; completion anticipated 2020 Not started, connection issues with offsite facilities	Oct
2017-B1 2017-B3.1 2017-B4 2017-B6 2018-B4 2018-B4	Police: Portable Radios City Hall Landscaping and Lighting Fire: Fire Engine 809/Tower 808 IT: BS&A Timesheet Program IT: BS&A Cemetery and HR Upgrade	based upon public feedback. The project will be prepared to move forward to the final design and construction phases once funding has been confirmed. Complete Phase 1 completed. Phase 2/3 scheduled for the spring as time and budget allows. Truck is on order; completion anticipated 2020 Not started, connection issues with offsite facilities Complete	Oct

FY 2019-2020						
Project	Project Name/Description	Status	Completed			
	2019 Local Streets	Bonds and Insurances in hand; Pre-Construction Meeting set for May 8, Contract and Notice of Award to be signed at the pre-construction meeting. Anticipate May 15th start of construction.				