SUPERIOR CHARTER TOWNSHIP PLANNING COMMISSION SUPERIOR TOWNSHIP HALL

3040 N. PROSPECT, SUPERIOR TOWNSHIP, MI 48198 AGENDA

FEBRUARY 23, 2022 7:00 p.m.

- 1. CALL TO ORDER
- 2. ROLL CALL
- 3. DETERMINATION OF QUORUM
- 4. ADOPTION OF AGENDA
- 5. APPROVAL OF MINUTES
 - A. Approval of the December 15, 2021 regular meeting minutes
- 6. CITIZEN PARTICIPATION
- 7. CORRESPONDENCE
- 8. PUBLIC HEARINGS, DELIBERATIONS AND ACTIONS
- 9. REPORTS
 - A. Ordinance Officer Report
 - B. Building Department Report
 - C. Zoning Administrator
- 10. OLD BUSINESS
 - A. STPC 21-04 Arbor Hills Animal Clinic Final Site Plan
- 11. NEW BUSINESS
 - A. STPC 21-05 Hyundai Site Expansion Preliminary Site Plan
- 12. POLICY DISCUSSION
- 13. ADJOURNMENT

Thomas Brennan III, Commission Secretary 3040 N. Prospect, Ypsilanti, MI 48198

Laura Bennett, Planning Clerk 734-482-6099

SUPERIOR CHARTER TOWNSHIP PLANNING COMMISSION DECEMBER 15, 2021 DRAFT MINUTES Page 1 of 6

1. CALL TO ORDER

Chairman Gardner called the regular meeting to order at 7:00 p.m.

2. ROLL CALL

The following members were present: Brennan, Dabish-Yahkind, Findley, Gardner, McGill, Sanii-Yahyai, Steele. Also present were Benjamin Carlisle, Carlisle Wortman and Rick Mayernik, Building/Zoning Administrator.

3. DETERMINATION OF QUORUM

A quorum was present.

4. ADOPTION OF AGENDA

A motion was made by Commissioner Sanii-Yahyai and supported by Commissioner Brennan to adopt the agenda as presented. The motion carried.

5. APPROVAL OF MINUTES

A. Minutes of the October 27, 2021 Meeting

A motion was made by Commissioner Brennan and supported by Commissioner Sanii-Yahyai to approve the minutes as presented. The motion carried.

6. CITIZEN PARTICIPATION

None.

7. CORRESPONDENCE

None.

8. PUBLIC HEARINGS, DELIBERATIONS AND ACTIONS

- A. STPC 21-05 Hyundai Site Expansion Area Plan Amendment
 - 1. Public Hearing

SUPERIOR CHARTER TOWNSHIP PLANNING COMMISSION DECEMBER 15, 2021 DRAFT MINUTES Page 2 of 6

Motion by Commissioner Findley, supported by Commissioner Brennan to open the public hearing.

Mark Torrigain stated that the proposed plan is consistent with what is happening at Hyundai.

Brian Latouf, Vice President of Safety at Hyundai, stated the applicant wants to create an engineering center and safety office that is fully functional and 160 people will work at the new site. He also explained that the proposed test track does not mean crashing cars and squealing tires.

Alexander Taylor 3715 Prospect Road asked if batteries would be created at the site and what the plan was if there was a spill, especially being close to the Snidecar Drain. He noted concerns with batteries holding toxic heavy metals. He also stated that the site plan shows there are 1,284 trees on site, but it is unclear which trees will be removed. He also inquired about the endangered species on the site

Mr. Torrigian replied with the follow items:

- No batteries are created onsite and there have been no spills since 2005.
- He is unsure which trees will be removed but the applicant is making sure to minimize tree removal.
- Regarding the test track no vehicles will be crashed together on the site.
- The roosting period of the threatened bat species will be taken into account since there are restrictions during that time.
- The intent of this lab is not for battery testing. They are also working on technology that does not need the heavy metals.

Mr. Latouf stated that the goal is to be safer to the environment.

Mr. Kassab, IBI Group, noted that the applicant is trying to prove that they are going above and beyond when it comes to endangered species and wetlands. He added there is a focus on the due diligence.

Commissioner Gardner stated that as part of the Preliminary Site Plan the applicant will need to identify which trees will be removed. SUPERIOR CHARTER TOWNSHIP PLANNING COMMISSION DECEMBER 15, 2021 DRAFT MINUTES Page 3 of 6

> If any heritage trees are removed, they'll need to be replaced based on a ratio.

As a Wilson, 1846 Superior Road, stated there will many trees removed based on the site plan and location of building. He feels that many of trees on site are landmark.

The applicant was questioned about the asphalt pad and its purpose, as well as a future roll over test area.

Mr. Wilson noted problems with phragmites. He added that they are not hard to control and would like to see the applicant commit to phragmites control.

Commissioner Gardner shares the concerns about the trees. He stated that the trees to be removed will need to be identified in subsequent submittals.

Mr. Torrigian stated that the pad is called a Vehicle Dynamic Assessment (VDA). It is for cars spinning and seeing the dynamics of it. The ponds will deal with the runoff from the pad. Also, a fence will be placed around the track for deer prevention. He continued to state the phragmite issue is being looked at and he has talked to the Supervisor regarding it. Mr. Torrigian cannot commit to anything on the phragmite issue now.

Motion by Commissioner Brennan supported by Commissioner Steele to close the public hearing.

2. Deliberation

Mr. Carlisle stated that the comments brought up will be looked at during Preliminary and Final Site Plan stages. He reviewed the Planner's Review dated December 2, 2021.

Commissioner Gardner inquired about the area east of LeForge Road that will be across from the VDA pad as well as lighting. He asked how the applicant will minimize the impact to adjacent properties.

Mr. Torrigian stated that the property across LeForge Road is also zoned Planned Manufacturing (PM). He doesn't believe there will be SUPERIOR CHARTER TOWNSHIP PLANNING COMMISSION DECEMBER 15, 2021 DRAFT MINUTES Page 4 of 6

many lights, and there will no lighting at the VDA pad. Also, the retention pond is between the VDA pad and LeForge Road.

George Tsakoff reviewed the Engineer's Report dated November 10, 2021.

Commissioner Steele inquired about the 1,200 regulated and 2,000 tagged trees.

Mr. Kassab explained that a majority of the trees are not landmark or heritage trees. Also, the condition of the trees are noted on the site plan and dead trees are not included in the tree count.

Commissioner Gardner asked the applicant to elaborate on the gravel boneyard, shown on the site plan.

Mr. Torrigian explained that a gravel boneyard is a gravel area where cars are parked that are done being tested and awaiting being moved to a scrap yard.

3. Action

Motion to recommend approval of STPC 21-05 Hyundai Site Expansion Plan Amendment after review of the standards set forth in section 7.102, for the following reasons:

- 1. Planned future land uses in the Master Plan include research and development (R & D) operations. The expansion of the Hyundai facility is noted in the Master Plan and consistent with Growth Management Policies.
- 2. The applicant's addition will require the removal of standing trees, which will be mitigated, but the addition is avoiding any work in a flood plain or the Snidecar Drain. The applicant has attempted to design the site to limit impacts upon natural features. A detailed review of natural future impact will be conducted during site plan review.
- 3. Provided the applicant is able to mitigate noise and lighting impact through site plan improvements, the impact upon adjacent properties shall be minimal.
- 4. Through thoughtful site planning, the site expansion can be compatible with surrounding lands uses.

SUPERIOR CHARTER TOWNSHIP PLANNING COMMISSION DECEMBER 15, 2021 DRAFT MINUTES Page 5 of 6

5. The site is encumbered with wetlands, tree stands, and two streams. The layout and location of the proposed expansion seem logical in order to reduce impact upon those natural features.

Roll Call:

Yes: Brennan, Dabish, Findley, Gardner, McGill, Sanii-

Yahyai, Steele.

No: None. Absent: None. Abstain: None.

The motion carried.

9. REPORTS

A. Ordinance Officer Report

A motion was made by Commissioner Brennan and supported by Commissioner Sanii-Yahyai to receive the report. The motion carried.

B. Building Department Report

A motion was made by Commissioner Brennan and supported by Commissioner Sanii-Yahyai to receive the report. The motion carried.

C. Zoning Administrator Report

A motion was made by Commissioner Findley and supported by Commissioner Sanii-Yahyai to receive the report. The motion carried.

10. OLD BUSINESS

None.

11. NEW BUSINESS

A. STPC 21-05 Hyundai Site Plan Major/Minor Site Plan Determination

Commissioner Gardner stated that there is an addition of approximately 50% of the ground floor coverage.

Mark Torrigian stated he understands this is a major change to the area plan.

SUPERIOR CHARTER TOWNSHIP PLANNING COMMISSION DECEMBER 15, 2021 DRAFT MINUTES Page 6 of 6

Motion by Commissioner Brennan, supported by Commission McGill, to find that STPC 21-05 Hyundai Site Expansion is a major site plan amendment for the following reasons:

- 1. The applicant proposes an increase in the number structures.
- 2. The applicant proposes an increase in non-residential floor area of over five percent (5%).
- 3. The applicant proposes an increase in GFC or FAR of the entire Special District of more than one percent (1%).

Roll Call:

Yes: Brennan, Dabish, Findley, Gardner, McGill, Sanii-Yahyai,

Steele.

No: None. Absent: None. Abstain: None.

The motion carried.

12. POLICY DISCUSSION

None.

13. ADJOURNMENT

Motion by Commissioner Brennan, supported by Commissioner Findley to adjourn.

Motion Carried.

The meeting was adjourned at 8:11 pm.

Respectfully submitted, Thomas Brennan III, Planning Commission Secretary

Laura Bennett, Recording Secretary Superior Charter Township 3040 N. Prospect Rd. Ypsilanti, MI 48198 (734) 482-6099

Superior Township Monthly Report January/February 2022

Resident Complaints/ Debris:

8317 N Warwick- Furniture on Extension - (Tagged)

931 Stamford Rd- Leaf Bags on Extension - (Tagged)

928 Stamford Rd.- Leaf Bags on Extension - (Tagged)

9001 Arlington Dr.- Chair on Extension - (Tagged)

1574 Harvest Ln.- Debris on Extension - (Tagged)

1531 Harvest Ln.- Furniture on Extension - (Tagged)(Owner Informed)

1532 Harvest Ln.- Chest on Extension - (Tagged)

8824 Somerset- Chair on Extension - (Tagged)

1709 Sheffield- Bags of Debris on Extension - (Tagged)

1812 Hamlet- Bags of Leaves on Extension - (Tagged)

8695 Hemlock Ct.- Cabinet & Carpet on Extension - (Tagged)

9867 High Meadow- Cabinet on Extension - (Tagged)

9216 Ascot Dr.- Cabinet on Extension - (Tagged)

1390 Stamford Rd.- Mattress & B/spr. on Extension - (Tagged)

8650 Cedar Ct.- Refuse on Extension - (Tagged)(Spoke with Owner)

1631 Harvest Ln.- Washer & Dryer on Extension - (Tagged)

8287 Berkshire- Cabinet on Extension - (Tagged)

9745 Ravenshire- Chest on Extension - (Tagged)

Vehicle Complaints:

7631 Abigal- Trailer on Street- (Tagged for Removal)

1780 Sheffield- Vehicle Blocking Mailbox- (Tagged for Removal)

Page: 1
Printed: 02/01/22

SUPERIOR TOWNSHIP BUILDING DEPARTMENT YEAR-TO-DATE REPORT

January 2022 To Date

Category	Estimated Cost	Permit Fee	Number of Permits
Electrical	\$0.00	\$2,905.00	22
Mechanical	\$0.00	\$4,739.00	36
Plumbing	\$0.00	\$2,078.00	13
PRIVATE ROAD	\$0.00	\$100.00	1
Res-Additions (Inc. Garages)	\$774,000.00	\$1,472.00	2
Res-Manufactured/Modular	\$70,000.00	\$450.00	3
Res-New Building	\$884,112.00	\$5,944.00	4
Res-New Building (Attached SFD)	\$816,124.00	\$5,304.00	4
Res-Other Building	\$4,950.00	\$100.00	1
Res-Renovations	\$281,820.00	\$1,445.00	6
Totals	\$2,831,006.00	\$24,537.00	92

Printed: 02/01/2022

SUPERIOR TOWNSHIP BUILDING DEPARTMENT MONTH-END REPORT January 2022

Category	Estimated Cost	Permit Fee	Number of Permits
Electrical	\$0.00	\$2,905.00	22
Mechanical	\$0.00	\$4,739.00	36
Plumbing	\$0.00	\$2,078.00	13
PRIVATE ROAD	\$0.00	\$100.00	1
Res-Additions (Inc. Garages)	\$774,000.00	\$1,472.00	2
Res-Manufactured/Modular	\$70,000.00	\$450.00	3
Res-New Building	\$884,112.00	\$5,944.00	4
Res-New Building (Attached SFD)	\$816,124.00	\$5,304.00	4
Res-Other Building	\$4,950.00	\$100.00	1
Res-Renovations	\$281,820.00	\$1,445.00	6
Totals	\$2,831,006.00	\$24,537.00	92

Zoning Report

February 15, 2022

<u>Masterplan Update</u>- The Master Plan Committee will meet on Thursday, February 17th. The main agenda items will be committee review of draft Master Plan Policies and a draft Master Plan Outline.

Zoning Board of Appeals- The Township has received an application requesting a setback variance relating to the location of a parking lot on Berry Road for the Southeast Michigan Land Conservancy. Additionally, the ZBA needs to address the interpretation requests and an appeal of a Zoning Official decision heard and postponed at the ZBA's January 12, 2022, meeting. I would anticipate a ZBA meeting in late March or early April to address these appeals.

6595 Plymouth- Ann Arbor Road- The Township has received a request to rezone two parcels near the Plymouth Road/M-14 connector intersection. The properties back up to the M-14 off ramp and are currently zoned R-1 (2 acre minimum). The applicant (SE Michigan Land Holdings) requests a rezoning to the R-2 (1 acre minimum) district. You may recall, these are the same properties proposed for Champion Sports recreation center and sports fields in 2019.

Richard Mayernik
Building/Zoning Official

ARBOR HILLS ANIMAL CLINIC



5347 Plymouth Road Final Site Plan Documents January 26, 2022 To: Washtenaw County Planning Department From: Mark Wilson, Arbor Hills Animal Clinic

Date: 12/13/2021

RE: 5347 Plymouth Road, Ann Arbor MI 48105

We are very much looking forward to attending the January 2022 meeting in the hopes of receiving our Final Site Plan Approval on this property. As part of today's submission, you are receiving the following:

- 1. Copy of the original Site Plan Review Application
- 2. Updated Interior Plans
- Updated civil drawings which reflect a slight modification of the parking area to accommodate that actual location (different from drawings obtained earlier in the process) following our site inspection by the WC Health Department (Jonathon Pelukas).
- 4. Updated civil drawings that reflect the lighting planned for this location.
- 5. A copy of the GeoTechnical study, conducted by the PEA group, reflecting the results of the field infiltration testing as required by the WCWRC. (Appendix A)
- 6. Updated civil plans reflecting a detailed landscape plan for the property.
- Updated civil plans reflecting Storm Water Management as required by Superior Township based upon the results of the Water Infiltration Study and completed in cooperation with the WCWRC.
- 8. Update civil drawings which reflect the taper lanes requested by George Streight, representing the WCRC.
- An email from Gary Streight, of the WCRC, including a marked-up copy of the prior civil drawings requiring all of the following which are reflected on the new civil plans: (Appendix B)
 - a. A 4' shoulder is required. 6" 23A limestone
 - b. The pavement cross section for the approach and tapers shall be 1.5" 5E1, 1.5" 4E1, 2" 3C, 10" 21AA Limestone
 - c. Inclusion of the storm water management plan (which is included in the new civil drawings)
 - d. Show existing and proposed grades at 50' intervals along the edge of existing pavement, proposed pavement edge and shoulder.
- 10. An email from Jonathon Pelukas, of the Washtenaw County Health Department, indicating that the septic field meets all requirements but that the location of the septic tanks must change based upon the location of the foundation of the corredor attaching the two existing buildings. Mr. Pelukas has included a drawing of where he wishes to have the new tanks placed. A contract has been signed with Jack Black Septic to complete this work and we are awaiting an opening in the calendar to have the work completed. (Appendix C)
- 11. Approval letter from Superior Township Fire Department...all "Review Comments and Requirements" are included by the architect in both the plans and the contractor instructions (bid-book) as part of this project. (Appendix D)

- 12. Termination of "Maintenance Agreement for Easement and Right of Way" between the previous owners of this property and the current owners of the parcel bordering this property on the East. This document terminates the prior easement that existed on previous drawings. This document was filed with the county by E-Title following our closing. (Appendix E)
- 13. A document titled "Easement" which provides an easement agreement, on the property bordering this property on the East side, giving the owners at 5347 Plymouth Road the ability to make modification to the tree line (as needed for sight lines) or to encroach on the neighboring property, if needed, to create the needed taper lanes on Plymouth Road. (Appendix F)

To: Superior Township Planning & Zoning

From: Mark Wilson Date: 12/17/2021

RE: Exterior Lighting & Hours of Operation

As we go through the final phases of the approval process for this property, I want to assure that we are all on the same page in terms of the hours of operation of the clinic as well our plans regarding the exterior lighting (light poles) in the Arbor Hills Parking Lot.

First, in terms of the hours of operation, Arbor Hills is currently open (this time of year) from 8am - 7pm daily. Our general hours of operation will vary from 8am - 9pm daily, depending upon the time of year and needs of the community. Although our office may be designated to close at a particular time, veterinary emergencies can cause the clinic to stay late while treating or stabilizing a family companion. These situations are both unpredictable and unavoidable in the veterinary profession. While we are not an emergency clinic, there are situations where we will make the decision to come in, after hours, to provide emergency treatment on one of our clients' companions. This has become especially true, during the pandemic, when emergency centers are routinely closing their ER's and leaving clients with no other option. Therefore, it is altogether possible that the clinic could be operating, in a limited capacity beyond the normal scheduled hours. This could include Saturday and Sunday hours, outside of our regularly scheduled weekend hours, as well.

In terms of exterior lighting, the safety of our staff and clients is paramount. Because of the unpredictable nature of the schedule of a veterinary hospital, I want to be sure people are not exiting the clinic into a dark parking lot. When people stay late, for whatever reason, they should still be exiting into a well illuminated parking lot. Therefore, instead of the agreement being for the lights to turn off 60 minutes after our scheduled close, I would like the agreement to be that the lights will go off within 30 minutes after the final staff member exits the building. While this will generally be within 60 minutes of our end of day, I want to plan for the exceptional situation.

As I have stated at every meeting, it is important to us that we be good neighbors for the community surrounding Arbor Hills. In my experience, clearly defined parameters and expectations lead to positive relationships and uncertainty creates conflict. I think it is in everyone's best interest to iron out these details early in the process.

Table of Contents

Section 1: Site Plan Review Application

Section 2: Updated Interior Plans

Section 3: Updated Civil Drawings - Exterior Site Plan.

Appendix A: GeoTechnical Study - GroundWater Infiltration

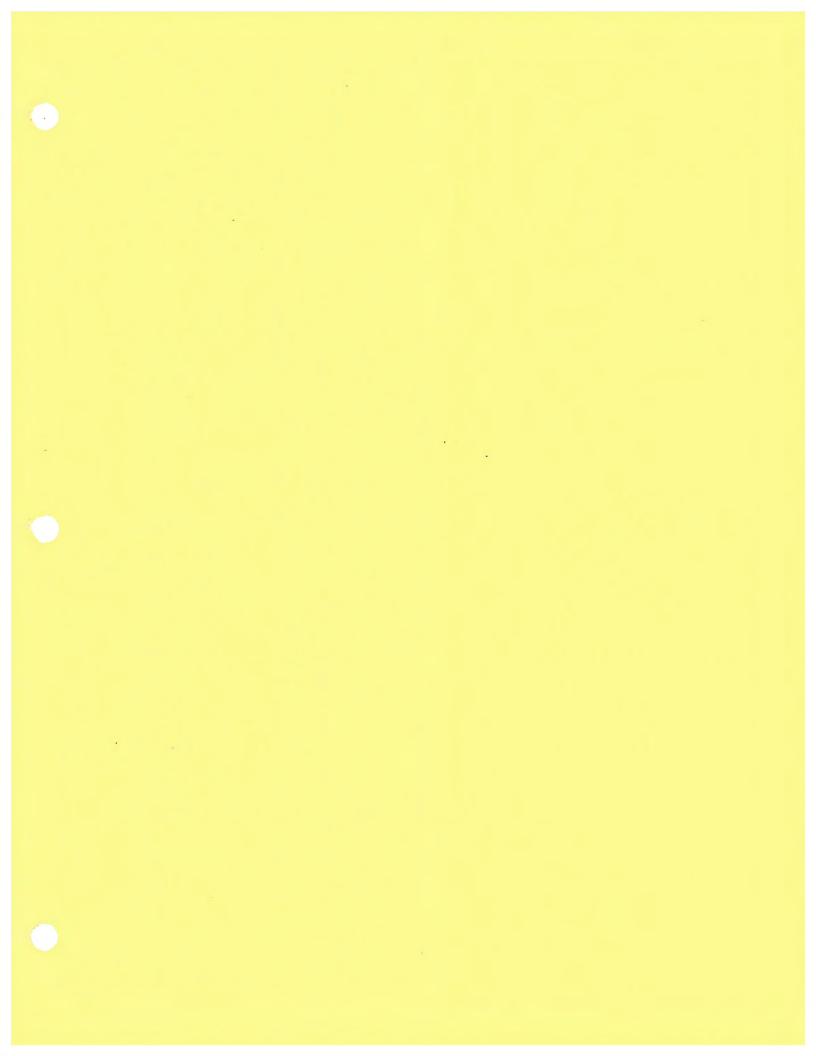
Appendix B: Scope of Work and Emails between Arbor Hills Animal Clinic and Gary Streight, WCRC, regarding the taper lane requirements and the need for a Left turn lane study and vision line study to be completed.

Appendix C: Information regarding Well & Septic including email from Jonathan Pelukas regarding the acceptability of the well and the septic and the requirement to relocate the septic tanks prior to construction of the addition. Also, in this section, is a copy of the contract with Jack Black Septic to complete this work.

Appendix D: Letter from Superior Township Fire Department granting approval with conditions. All conditions are included within the scope of the work outlined by our architect in the building documents.

Appendix E: Termination of Easement Agreement

Appendix F: Easement Agreement allowing AHAC use of the property bordering AHAC on the east, as required by WCRC, if necessary.



SITE PLAN REVIEW APPLICATION

(This application must be typewritten or printed. All questions must be answered.)

APPLICANT	NAME Mark & Kristin Wi	ilson, DBA Arbor Hills Animal Clinic, PLLC
NAME OF PR	ODOCED	
	ENT Arbor Hills Animal Cl	linia
DE VELOT MI	MI Arbor Finis Aritmar Ci	11116
APPLYING F	OR □ PRELIMINAR	Y SITE PLAN
	□ FINAL SITE P	LAN
	■ COMBINED P	RELIMINARY AND FINAL SITE PLAN
	(Combination	is at discretion of Planning Commission)
	□ MINOR SITE I	PLAN
	□ MAJOR/MINC	OR CHANGE DETERMINATION
	□ ADMINISTRA	TIVE REVIEW
	WILL PROJECT BE PH	[ASED? □ YES ■ NO
	IF PROJECT IS PHASE	D COMPLETE THE FOLLOWING:
	 Total number of phase 	ses
	 Phase number of curr 	· · · · · · · · · · · · · · · · · · ·
		eliminary site plan approval
	- Trame and date of pro	similary site plan approval
	Date of Previous Pha	ase Approvals:
	Phase #	DateDate
	Phase #	Date
	Phase #	Date Date
SEEKING AT	DITIONAL APPROV	AL FOR A CONDITIONAL USE ■ YES □ NO
,		
Signature of th	e Clerk or Designee	
9/30/2021		
Date of Receip	ot of Application	
\$5,900.00		
Amount of Fee	2	

Superior Charter Township, 3040 N. Prospect Rd., Ypsilanti, MI 48198 Telephone: 734-482-6099 Website: superiortownship.org Fax 734-482-3842

GENERAL INFORMATION

•	Name of Proposed Development Arbor Hills Animal Clinic PLLC		
•	Address of Property 5347 Plymouth Road, Ann Arbor MI 48105		
•	Current Zoning District Classification of Property VC		
	Is the zoning classification a Special District as defined by Article 7? YES NO		
•	Has this property been the subject of a rezoning request, Zoning Board of Appeals petition or other Township action with the past five (5) years? YES NO		
Please explain No			
•	Tax ID Number(s) of property 10-18-155-013		
•	Site Location - Property is located on (circle one) N S E W side of Plymouth Boad between Church Road and Short Street Roads.		
•	Legal Description of Property (please attach a separate sheet) Where a metes and bounds description is used, lot line angles or bearings shall be indicated on the plan. Lot line dimensions and angles or bearings shall be based upon a boundary survey prepared by a registered surveyor and shall correlate with the legal description.		
Site Ar	ea (Acreage) and Dimensions		
•	Are there any existing structures on the property? W YES NO Please explain: There are two buildings on the property. One is a 2 story structure of about 3,600 square feet. The second is a one story structure of approximately 500 square feet.		

Superior Township Site Plan Review Application Page 3 of 5 Revised 04/30/19

	PROPO	PROPOSED LAND USE			
□ Residential	■ Office	■ Commercial	□ Other		
If other, please specif	Ĵy		· .		
Give a complete d Use as a veterin business hours (each unit approxim escription of the pr ary clinic. The cli	oposed development. nic is a day practice open e no late evening or overn			
	ESTIN	1ATED COSTS			
 Site improvements Landscaping \$10 Total \$1,250,000 	0,000				
	ESTIMATED DATES OF CONSTRUCTION				
Initial construction January, 2022 Project completion April, 2022 Initial construction of phases (IF APPLICABLE)					
Completion of subsequent phases. (IF APPLICABLE)					
Estimated date of first occupancy May, 2022					
■f	IDENTIFY EACH DRAWING SUBMITTED BY NAME OF PLAN OR DRAWING, DATE AND DRAWING NUMBER (ATTACH ADDITIONAL SHEET IF NECESSARY)				
Stonefield Cover She	et	C3 Stonefield Site Plar	1		
Stonefield Demolition Plan		C4 Stonefield Grading & Dr	ainage Plan		

Superior Charter Township, 3040 N. Prospect Rd., Ypsilanti, MI 48198 Telephone: 734-482-6099 Website: superiortownship.org Fax 734-482-3842

	APPLICANT INFORMATION		
•	APPLICANTS NAME Mark Wilson		
•	Company Arbor Hills Animal Clinic		
	2717 Plymouth Road, Ann Arbor MI 48105		
	Telephone Number 248-763-2936 Email		
•	PROPERTY OWNER'S NAME Karla Groesbeck & Paula Weber		
	Company		
	Address5347 Plymouth Road, Ann Arbor MI 48105		
	Telephone Number Email		
•	DEVELOPER'S NAME NA		
	Company		
	Address		
	Telephone NumberEmail		
•	ENGINEER'S NAME Renata Garbarino (contact)		
	Company Kem-Tec/Stonefield Engineering/Design		
	Address 22556 Gratiot Avenue, Eastpoint MI 48021		
	Telephone Number 586-772-222 Email rgarbarino@kemtec-survey.com		
•	ARCHITECT/PLANNER'S NAME Peter Hill		
	Company HDA Associates		
	Address101 E 2nd Avenue Suite 350, Rome GA 30161		
	Telephone Number 888-221-9232 Email pete@hda-architects.com		
	Superior Charter Township, 3040 N. Prospect Rd., Ypsilanti, MI 48198 Telephone: 734-482-6099 Website: superiortownship.org Fax 734-482-3842		

Superior Township Site Plan Review Application Page 5 of 5 Revised 04/30/19

The applicant indicated on page 4 must sign this application. All correspondence regarding the application and plan will be directed to the applicant. If the applicant is not the property owner, the owner's signed consent must also be provided with this application.

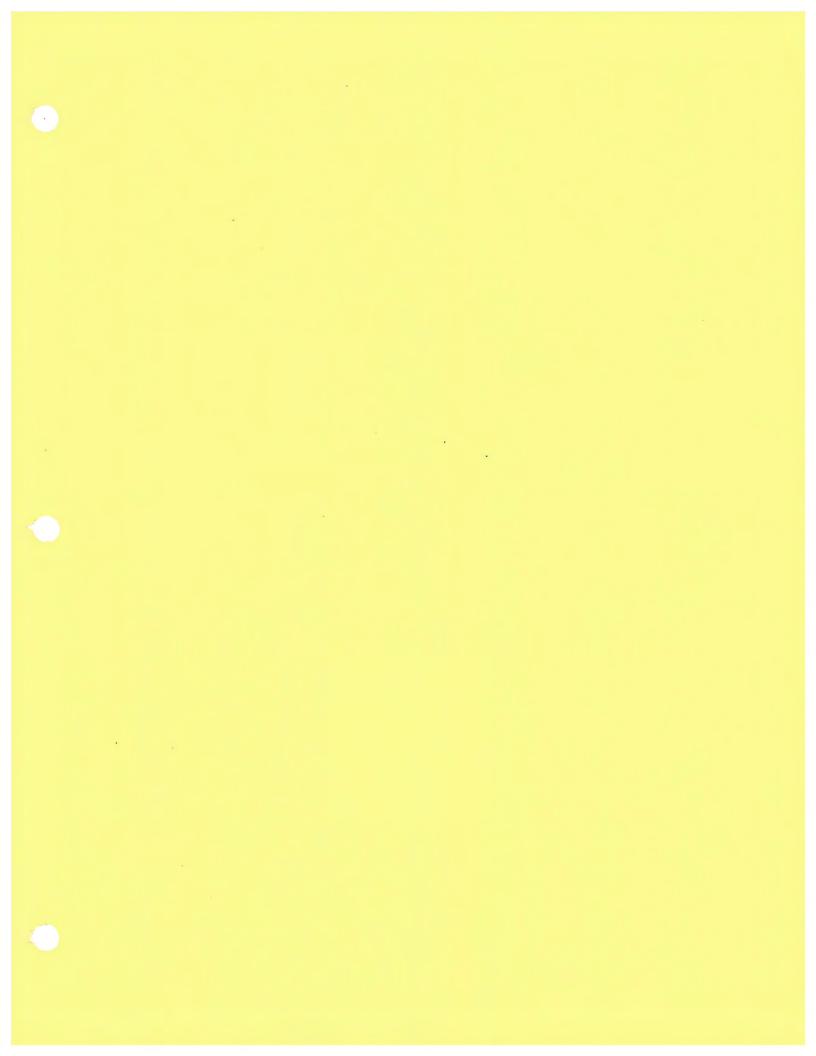
APPLICANT'S DEPOSITION

I hereby depose and certify that all information contained in this application, all accompanying plans and all attachments are complete and accurate to the best of my knowledge.

APPLICANT'S PRINTED NAME: Mark T WI	lson/Kristin L Wilson
APPLICANT'S SIGNATURE MAD	DATE 9/30/2021
PROPERTY OWNER'S PRINTED NAME	·
PROPERTY OWNER'S SIGNATURE	DATE

IDENTIFY EACH DRAWING SUBMITTED BY NAME OF PLAN OR DRAWING, DATE AND DRAWING NUMBER (ATTACH ADDITIONAL SHEET IF NECESSARY)

C5 Stonefield Construction Details	Septic Plot & Elevations 6/3/1996
1 Kem Tech Draft Site Plan	Certificate of Survey 4/3/1995
A 2.0 HDA First Floor Interior Floor Plan	
A 2.1 HDA Second Floor Interior Floor Plan	
A 6.0 HDA Exterior Elevation Views	





Construction Documents for the

ARBOR HILLS ANIMAL CLINIC

5347 PLYMOUTH ROAD ANN ARBOR, MI 48105

GENERAL NOTES

- THIS PROJECT CONSISTS OF THE CONSTRUCTION OF ARBOR HILLS ANIMAL CLINIC ALONG WITH ALL ASSOCIATED SITE WORK AND EQUIPMENT INSTALLATION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND REGULATIONS, INCLUDING THE AMERICANS WITH DISABILITIES ACT.
- CONTRACTOR SHALL VERIFY ALL CLEARANCES DIMENSIONS AND SIZES PRIOR TO ORDERING OR PURCHASING ASSEMBLIES OR FIXTURES FOR CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY CONSTRUCTION AND ALL STAGING, SCHEDULING MATERIAL DELIVERS AND OTHER ITEMS THAT AFFECT THE SEQUENCE OF CONSTRUCTION OR SCHEDULING THE CONSTRUCTION PROLECT.
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH
- NOTE THAT ALL DIMENSIONS ARE TO CENTER LINE OF STUD OR FACE OF MASONRY UNIT, U.O.N. DIMENSIONS FOLLOWED BY "CLR." OR "CLEAR" INDICATE CLEARANCES REQUIRED FROM FACE OF FINISH TO FACE OF FINISH.
- CONCEALED INSULATION SHALL HAVE FLAME SPREAD OF 0-25 AND A SMOKE-DEVELOPED INDEX OF 0-450 AS DETERMINED IN ACCORDANCE WITH ASTM E 84.
- CONCEAL ALL PIPING IN WALLS. WHERE PIPING IS TOO LARGE, WALLS ARE TO BE FURRED OUT TO THE MINIMUM DISTANCE NECESSARY TO CONCEAL PIPING.
- ALL GYPSUM BOARD ABUTTING OTHER MATERIALS IS TO BE FINISHED WITH METAL EDGES.
- DOORS IN EXITS SHALL NOT BE SUBJECT TO THE USE OF A KEY FOR OPERATION FROM THE INSIDE OF THE BUILDING.
- ALL INTERIOR AND EXTERIOR DOORS SHALL HAVE HANDICAP HARDWARE (LEVERS, PANIC HARDWARE, OR USHAPE DESIGNED DEVICES, ETC.) NO KNOBS OR HARDWARE THAT REQUIRES TWISTING OF THE WRIST.
- 12. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS STRUCTURAL WELDING CODE. PROOF OF WELDERS CERTIFICATE SHALL BE AVAILABLE AT THE JOB SITE.
- ALL EXTERIOR GLASS DOORS AND GLASS PANELS ADJACENT TO THE DOORS SHALL BE TEMPERED. ALL GLASS PANELS EXTENDING TO FINISH FLOOR SHALL HAVE HORZONTAL FRAME MEMBERS 3 FEET ABOVE FINISH FLOOR. ALL EXTERIOR GLAZING SHALL BE INSULATED.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROVIDING ALL NECESSARY WOOD BLOCKING WITHIN ANY WALLS FOR ANY WALL MOLINIED AGENETS, MILLWORK, EQUIPMENT, ETC. COORDINATE LOCATION AND BLOCKING WITH THE ARCHITECT OR SUPPLIES WHERE NECESSARY.
- PENETRATIONS INTO OR THROUGH, EITHER VERTICAL OR HORIZONTAL FIRE RATED BARRIERS SHALL BE PROTECTED BY A SYSTEM LISTED BY A RECOGNIZED TESTING AGENCY.
- FIRE EXTINGUISHERS IN BUSINESS OCCUPANCIES AND OFFICE AREAS SHALL BE LOCATED PER THE REQUIREMENTS OF INFPA 10 AND THE LOCAL FIRE MARSHAL. THE SIZE SHALL BE A MINIMUM OF 2A-10-BC, 4 F.E. ARE REQUIRED AND SHALL BE INSTALLED AT A MAXIMUM OF 48' A.F.F. TO THE TOP OF THE HANDLE 4 SURPINCE MOUNTED FIRE EXTINGUISHERS SHALL BE PROVIDED FOR THIS
- THESE DRAWINGS ALONG WITH THE PROJECT MANUAL & SPECIFICATIONS COMPRISE THE CONTRACT DOCUMENTS A BROWT TO BE CONSIDERED SEPARATELY BUT AS COMPLIMENTARY. WHAT IS REQUIRED BY ONE IS TO BE CONSIDERED RECOURSED BY ADDITIONAL PROPERTY.
- IN THE CASE OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ARCHITECTS INTERPRETATION.
- 19. ALL H.C. EXITS SHALL BE ZERO STEP ENTRY AND LEAD TO AN ACCESSIBLE ROUTE TO A PUBLIC
- TOILET ROOM AND OTHER EXHAUSTS MUST EXHAUST TO THE OUTDOORS AT LEAST 3' HORIZONTALLY AND VERTICALLY FROM OPENINGS AND INTAKES, NOT TO SOFFITS PER INC 501.2.

PROJECT CODE CRITERIA

WASHTENSAW COUNTY, MICHIGAN

- Building: 2015 McHolpan Building Code 2015 McHolpan Febaldistan Code For Existing Buildings Mechanicat: 2015 McHolpan Mechanicat Code Gas Planja: 2015 McHolpan McHanicat Code Puration; 2015 McHolpan Plumbing Code Puration; 2015 McHolpan Plumbing Code Electrical: 2017 McHolpan Electrical Code Base on the 2017 National Electrical Code w/ Part 8 State
- Amendments
 Energy, 2015 International Energy Conservation Code Part 10 w/ ANSI/ASHRAERESNA Standard 99.1-2013
 Fire Safety, 2015 International Fire Code
 (ICOANS) A171- 2009 8 Michigan Barner Free Design's Law of Public Act 1 of 1986 as Amended.
 2010 NPPA 13, 130 à 138
 2013 NPPA 13, 100 à 138

BUILDING CODE SUMMARY

BOARDING BUILDING

BUILDING OCCUPANCY CLASSIFICATION: BUSINESS TYPE OF CONSTRUCTION 58 SPRINKLED ON NOT SPRINKLED: NOT SPRINKLED BUILDING AREA PROVIDED: 4, 129 SF BUILDING AREA PROVIDED: 4, 129 SF EXISTING BUILDING HEIGHT: 24-07 OCCUPANT LOAD:

FIRST FLOOR EXISTING AREA - 2.495/100 OCCUPANTS = 25 OCCUPANTS FIRST FLOOR NEW AREA - 291/100 OCCUPANTS = 00CUPANTS SECOND FLOOR EXISTING AREA - 1.359/100 OCCUPANTS - 44 OCCUPANTS TOTAL OCCUPANTS-42 OCCUPANTS

PROJECT LOCATION



PROJECT DIRECTORY

MED CONSULTANT

CORMERSTONE DESIGN SERVICES, LLC 3740 DAVINCI COURT, STE 100

PHONE: 770-717-0040
EMAIL: JNYGAARD@CSDESIGNSERVICES.NET

PEACHTREE CORNERS, GA 30092

ENGINEER: JAMIE NYGAARD, P.E.

PROPERTY OWNER: MARK AND KRISTIN WILSON 2717 PLYMOUTH ROAD ANN ARBOR, MICHIGAN 84105 PHONE-248,763,2936 EMAIL: MARKWILSON BARBORHILLSVET COM

CIVIL ENGINEERING CONSULTANT KEM-TEC 22556 GRATIOT AVENUE EASTPOINTE, MICHIGAN 48021 ENGINEER RENATA GARBARINO

586,772,2222 EMAIL: RGARBARINO@KEMTEC-SURVEY.COM ARCHITECT: HDA ARCHITECTS, INC. 101 E 2ND AVE

ROME GA 30161 706.531,9998

EMAIL-PETERHOA, ARCHITECTS COM ARCHITECT OF RECORD: DANNY CLARK

DRAWING INDEX

COVER SHEET, INDEX, & NOTES LIFE SAFETY PLAN

AS-1.0 OVERALL SITE PLAN A-0.1 DEMOLITION PLANS

A-1.1 DIMENSION PLANS

REFERENCE PLANS 4.13 REFLECTED CEILING PLANS

FLOOR FINISH PLAN

A-15 BOOF PLAN & DETAILS

BUILDING ELEVATIONS BUILDING AND WALL SECTIONS

STAIR SECTIONS AND DETAILS INTERIOR FLEVATIONS

SCHEDULES A DETAILS

STRUCTURAL NOTES

A62 FOUNDATION AND FLOOR FRAMING

MG-1.1 MED GASICENTRAL VAC PLAN



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COVER SHEET, INDEX. & NOTES

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FIRE NOTES

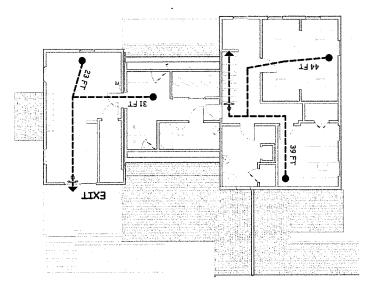
810H Y2 JHOSE LORND YBOAE Y CEIFING 'INCITOING ILLERZILLYT SEVCES' LE BE BEHBEIG SHYTT EE COMLIMINGAS EVAN HEBCOS' INCITOING COMILIEDE MAY THOOMEN HT COMCENTED BEVCES LIEB STYDERS SHYTT EE COMLIMINGAS EVAN HEBCOS' INCITIOES COMITIOE MAY THOOMEN HT COMCENTED BEVCES

- PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIRDUCTS, PUEUMATIC DUCTS, AND SIMILAR BUILDING SERVICES EOUIPWENT THROUGH FIRE BARRIERS SHALL BE PROTECTED AS FOLLOWS:
- THE SPACE BETWEEN THE PENETRATING ITEM AND FIRE BARRIER SHALL BE FILLED WITH A MATERIAL CAPABLE. OF MAINTAINING THE FIRE RESISTANCE RATING OF THE FIRE BARRIER PRODUCT.
- FIRE BARRIERS SHALL BE EFFECTIVELY BUD CONCEALED SPACES WITH THE FOLLOWING: FIREISMOKE BARRIER ABOVE ANY DECORATIVE CEILING AND CONCEALED SPACES WITH THE FOLLOWING: FIREISMOKE BARRIER PROFESS AND CONCEALED SPACES WITH THE FOLLOWINGS.
- ALL FIRE-RATED PARTITIONS AND WALLS SHALL EXTEND TO BOTTOM OF ROOF DECKING OR FATED PLOCHCELLING ASSEMBLIES.
- WHEN A BEAM OR COLUMN BECOMES PART OF THE FIRE PATED WALL OR CEILING IT MUST BE PROTECTED AND BE FIRE TAKED AS IS THE WALL OR CEILING.
- NO HAZARDOUS MATERIALS ARE TO BE STORED ON PREMISES.
- HELEGE ENHANCE VIBE COMMEDIANE OB DECOMITMINATION ECOLISMENT FAID EXPLAINMENT ON SPACIAL OF RESIDENT WILL SPACE SELLONG OB DECOMITMINATION ECOLISMENT ON SPACE AND A DEFINITION OF SPACE OF RESIDENCE WILL A DESIGN OF SPACE OF SPAC
- DÉLÉCIOES IN VICCOBDANCE MILH SECUION 808°S I' SOIS INLEBNATIONAY RECHANICAY CODE SECUION COMMON ABRADEA VAN DELEIGHA VIUS ASCLEMES ANTEINE SAILEMENT BE ANTEI BE BONDISED MILH SHONCE COMMON DELEIGHA VIUS ASCLEMES ANTEINES ANTEIN INTERNATIONAL MECHANICAL CODE, SECTION 606.2.2.
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- OOMBUSTIBLE INTERIOR FINISH PRODUCTS SHALL BE PROVIDED PER REQUIREMENTS OF THE RESPECTIVE OCCUPANTER OF THE PREAD HELD AS SHENGE SIZE EDITION, THAT THE PROJECT IS BEING PROMITED UNDER ACCUPANT OF THE PROJECT IS BEING PROMITED WHITE ACCUPANT OF THE PROJECT IS BEING PROMITED WHITE ACCUPANT OF THE PREQUIREMENTS.
- FOR EMERGENCY RESPONSE PURPOSES. ABOORDED YND YMRIUNIED, LO ESONIAMENL YND EEGLUROY. OH EMBEREING, OCHLUDC FWEET OU DEGLUCES BOORDENEN DU CONNENIER ELDDAGE WINNINN OE DO HORES MOGBUNGEN STORES HAFT ER BOORSE FUNCOURIE WITH MORTHE CONFINENT CONFERENCE CONFINENT STORES HAFT ER BOORSE FUNCOURIE WITH MORTH ECHNICATE CONFINENT STORES CONFINENT STORES FOR THE MEXIMA 121
- 13. ALL H.C. EXITS SHALL BE ZERO STEP ENTRY AND LEAD TO AN ACCESSIBLE ROUTE TO A PUBLIC WAY.

FIRE EXTINGUISHERS

- PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ACCORDANCE WITH MEPA 10.

'INDIREDICLION' WO'ONLED ALLH HAMDIE HO HIGHEL LIHM 48. V'E'E'. AIGIRE WID VOCESSIBE'E EINVE NEMBER WID FOCKLIONS LO BE DELEBNINED BA FOCKE GOAEBNING BUONIDE CEVES SK'108°C BISE EXLINGRISHEUS LO BE WOUNLED ON MYTE BEVOKEL MHERE BEVDIE'A.



.0-1 = .9WE / FST LIFE SAFETY PLAN - FIRST FLOOR **EXIL** H.C. EXIT **Z3 FT** 31 FT 34 FT H.C.EXIT **38 FT** 79 8F ! =

.0-1 - .91/2 / 1-51 TIFE SAFETY PLAN - SECOND FLOOR

1-57

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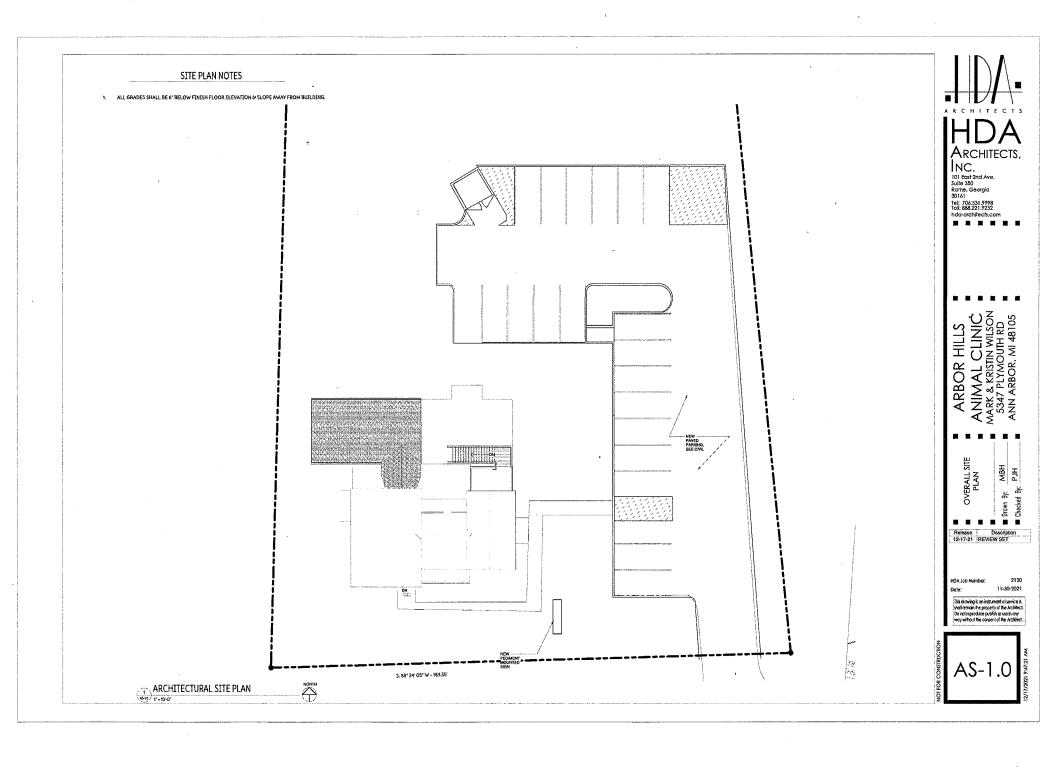
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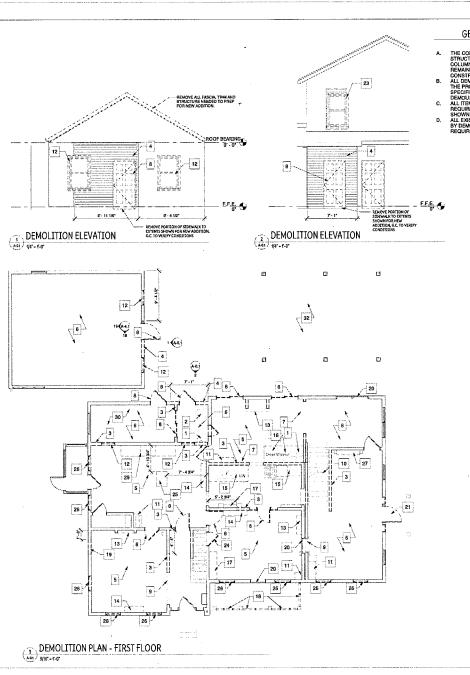
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LIFE SAFETY PLAN

ARBOR

HILLS





GENERAL DEMOLITION NOTES

- THE CONTRACTOR SHALL INVESTIGATE THE EXISTING STRUCTURE PRIOR TO THE DEMOLITION OF ANY WALLS, COLLIMNS, BEAMS, ETC... AND SHALL SHOPE ALL TEMS TO REMAIN AS REQUIRED OURING GENOLITION AND NEW CONSTRUCTION.

 ALL DEMOLISHED MATERIALS AND ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR SHALL DISPOSE OF ALL SHOPE OF ALL SHAPE OF THE PROPERTY OF THE CONTRACTOR SHALL DISPOSE OF ALL SHAPE OF THE PROPERTY OF THE CONTRACTOR SHALL DISPOSE OF ALL SHAPE OF THE CONTRACTOR SHALL DISPOSE OF ALL SHAPE OF THE CONTRACTOR SHALL DISPOSE OF ALL SHAPE OF THE CONTRACTOR OUT OF THE CONTRACTOR OF THE CONT

SPECIFIC DEMOLITION NOTES

- ,
- REMOVE EXISTING PLUMBING FIXTURES CAP SUPPLY AND WASTE. CONNECT NEW FIXTURES TO EXISTING PLUMBING IN THIS AREA REMOVE EXISTING TOLET FIXTURE AND RELATED TO THE TACCESSORIES. ABANDON SUPPLY AND WASTE. WASTE. WASTE THE THIS THE TOLET OF THE TACKET OF THE TOLET O
- DEMOLISH EXISTING EXTERIOR WALL CONSTRUCTION TO EXTENT INDICATED AND AS REQUIRED FOR NEW ADDITION.

 DEMOLISH EXISTING ORNATE DECORATIVE CELLING AROUND LIGHT FIXTURES AND LIGHT CONTROL OF THE ASSETTING FLOOR FIXES WITHOUT BLEMISH. EDGE OF EXISTING EXILING TO BE SECURED AS REQUIRED. DEMOLISH EXISTING COLOR FIXES WITHOUT BLEMISH. EDGE OF EXISTING COLOR FIXES WITHOUT BLEMISH. THE ADDITION OF THE ASSETTING FOR THE ADDITION OF THE ASSETTING FOR THE ASSETTING

- CONSTRUCTION
- CONSTRUCTION.

 REMOVE EXISTING WINDOW AND PATCH AND REPAIR AS NEEDED. REPAINT INTERIOR TYP.

 DEMO ALL EXISTING FIREPLACES AND PATCH AND REPAIR AS NEEDED FOR NEW CONSTRUCTION.

 RELOCATE EXISTING SHELVING TO UPSTARS OFFICE.
- REMOVE EXISTING KITCHEN EQUIPMENT.
- REMOVE ALL EXISTING APPLIANCES.
- DEMOLISH ALL EXISTING CABINETRY/SHELVING AND PATCH AND REPAIR AS NEEDED FOR NEW CONSTRUCTION.
 DEMOLISH EXISTING ACRYLIC ON FRONT PORCH TO ORIGINAL COLUMNS AND FRAMING. PATCH
- 18.

- DEMOLISH EXISTING ACRIVIC ON PROVIT PORCH TO ORIGINAL COLUMNS AND FAMMING. PAILCH AND PAINT AS NEEDED. TERMOVE PORTION OF EXTERIOR WALL IN PREPARATION FOR NEW WINDOW. RESEAL SHIP EXISTING DOOR. RAISE DOOR, SIDELEGHTS AND THRESHOLD TO BE AT NEW FINISHED FLOOR, PATCH, PAINT AND REPAIRS AND EXISTING PAILLING TO MEET AND ACCESS TO WEW STATES. REPLACE EXISTING PAILLING TO MEET AND EQUIREMENTS AND ACCESS TO WEW STATES. REPLACE EXISTING PAILLING TO MEET AND PACCESS TO WEW STATES.
- 22. 23.

- NEEDED.

 RELOCATE EXISTING DOOR TO NEW LOCATION.

 DEMO EXISTING PORTION OF FLOOR, CELLING.

 MAITER AND PROVIDE SLOCKING AND SUPPORT OF EXISTING STRUCTURE AS NEEDED.

 REMOVE EXISTING WISDOW AND REPLACE WITH NEW WINDOW. GC VERIFY ALL EXISTING

 OPENINGS AND WINDOW SIZES.

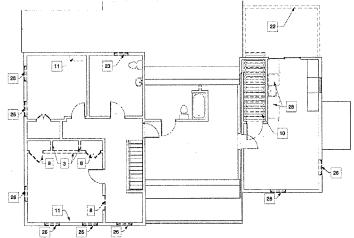
- OPENINGS AND WINDOW SIZES.

 RELOCATE EXISTING FIREPLACE HEARTH TO NEW LOCATION. PATCH AND REPAIR AS NEEDED.

 REMOVE EXISTING FURNITURE TO PREP FOR NEW CABINETRY.

 RELOCATE EXISTING CABINET UNIT TO NEW UPSTAIRS OFFICE LOCATION.

 REMOVE EXISTING ROOF FRANING IN 175 ENTIRETY. INSTAIL 2.8 FLOOR FRAMING AT 16° OC W/3.4°
- THE DECKING
- DEMOLISH EXISTING RAIL AND PEDESTAL REMOVE EXISTING PERGOLA.



DEMOLITION PLAN - SECOND FLOOR

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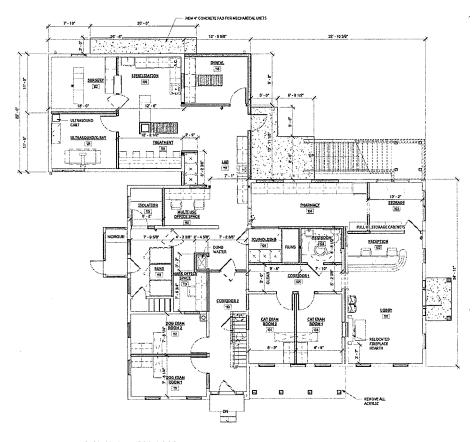
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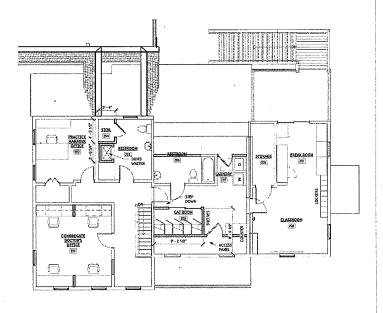
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DIMENSION PLAN - FIRST FLOOR

DIMENSION PLAN - SECOND FLOOR

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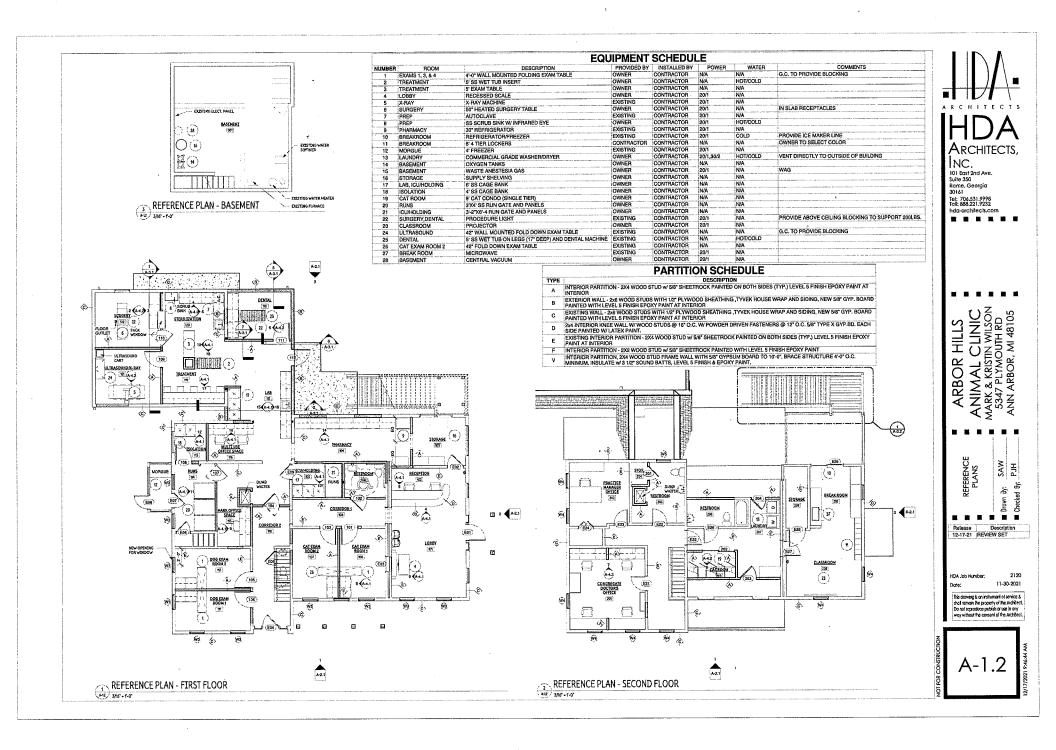
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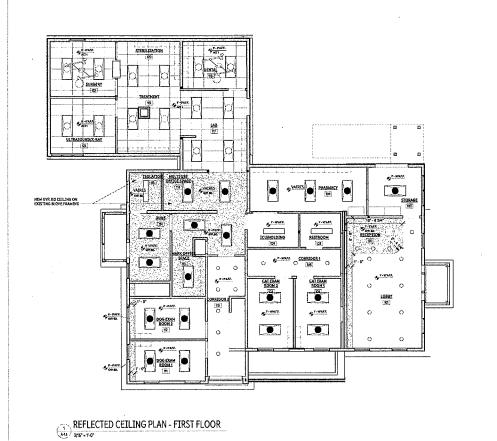
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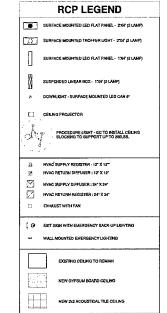
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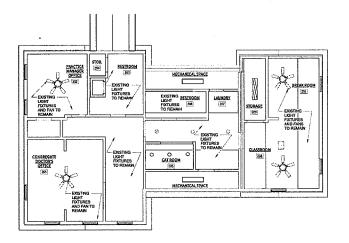
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NOTE: PATCH AND REPAIR EXISTING CEILINGS AS REQUIRED



REFLECTED CEILING PLAN-SECOND FLOOR

ARCHITECTS NC.

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REFLECTED CEILING PLANS REFLEC CEILING Drawn By: S

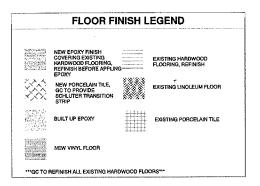
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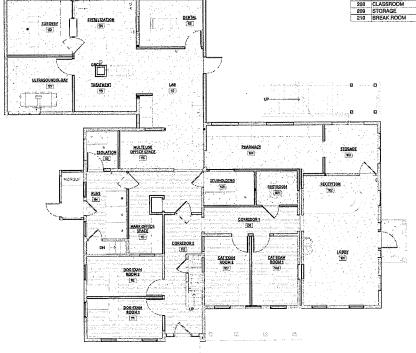
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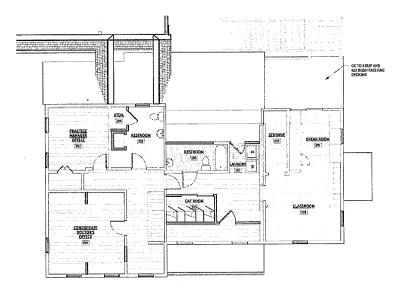
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FINISH PLAN - FIRST FLOOR

FINISH PLAN - SECOND FLOOR



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FLOOR FINISH PLAN 8 <u>~</u> Drawn

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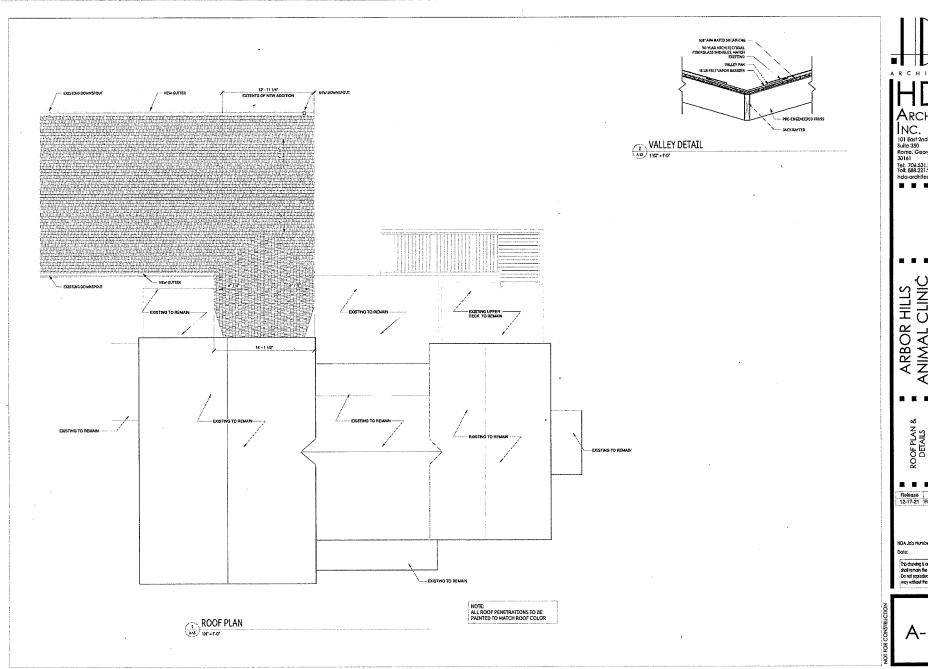
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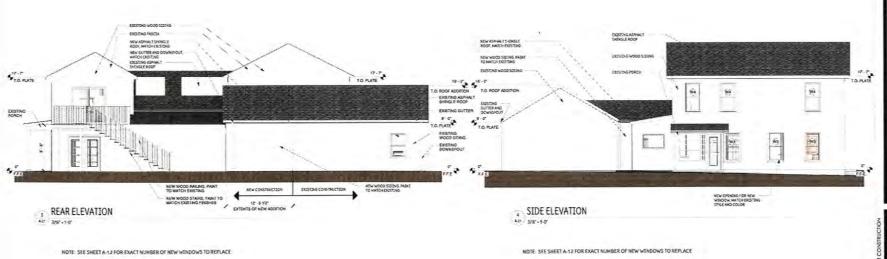
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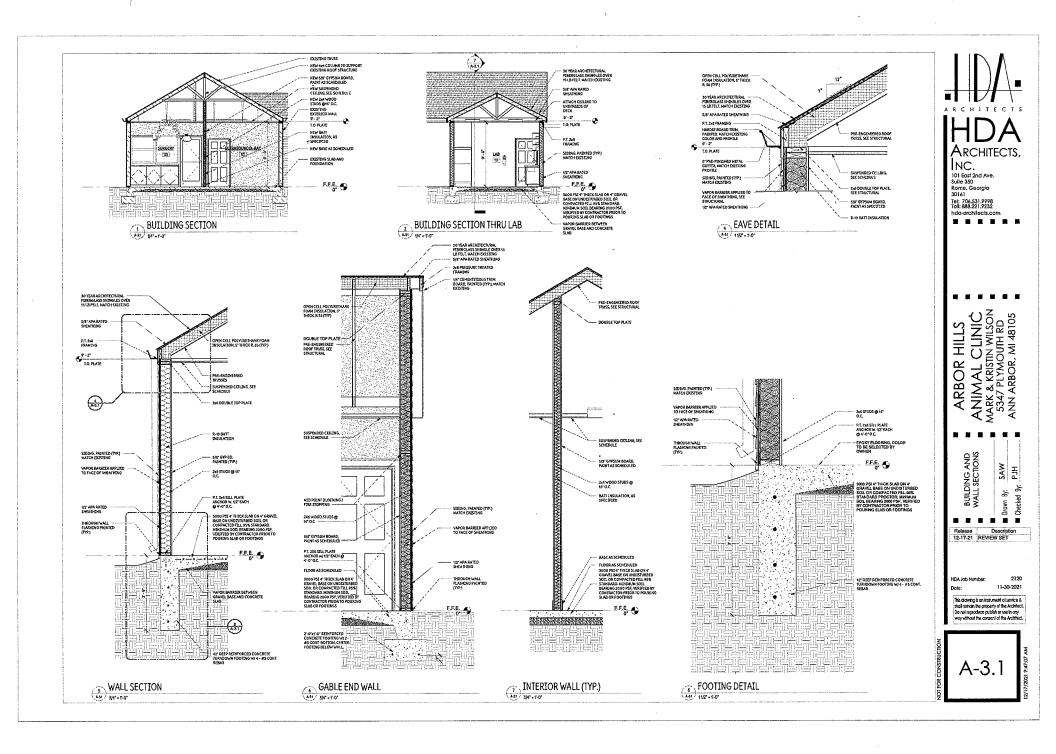
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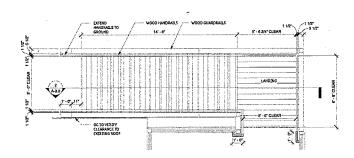
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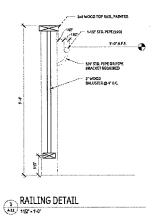
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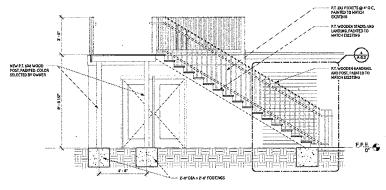
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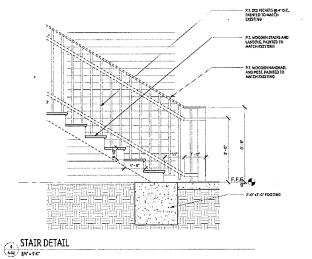


ENLARGED STAIR PLAN





STAIR SECTION

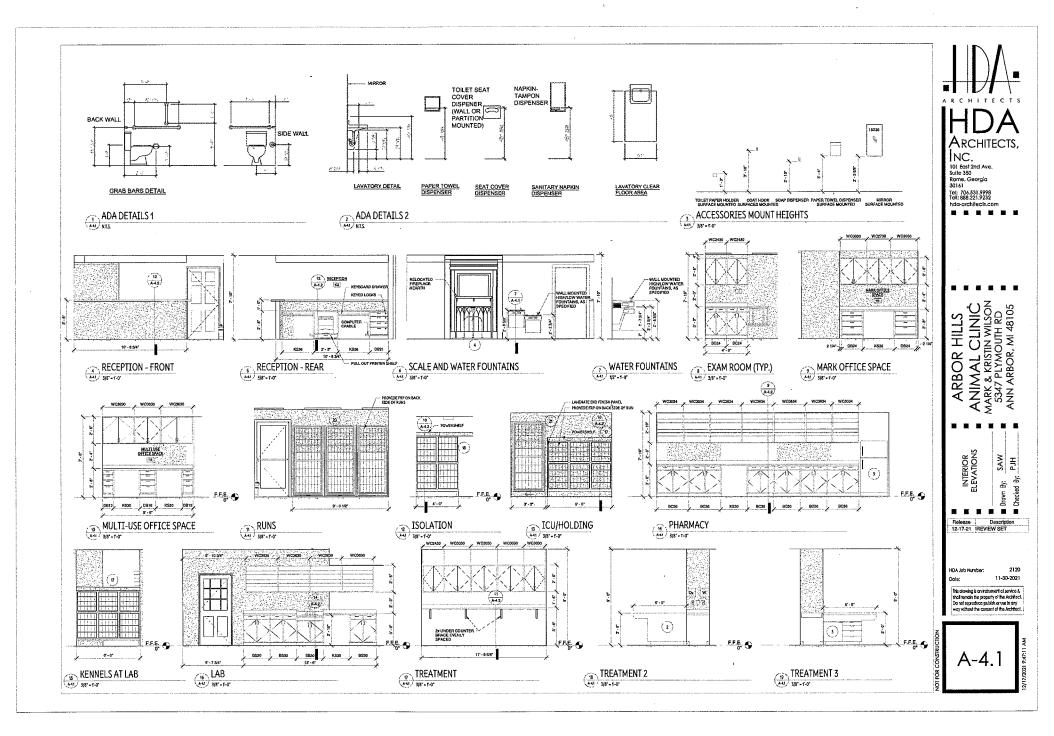


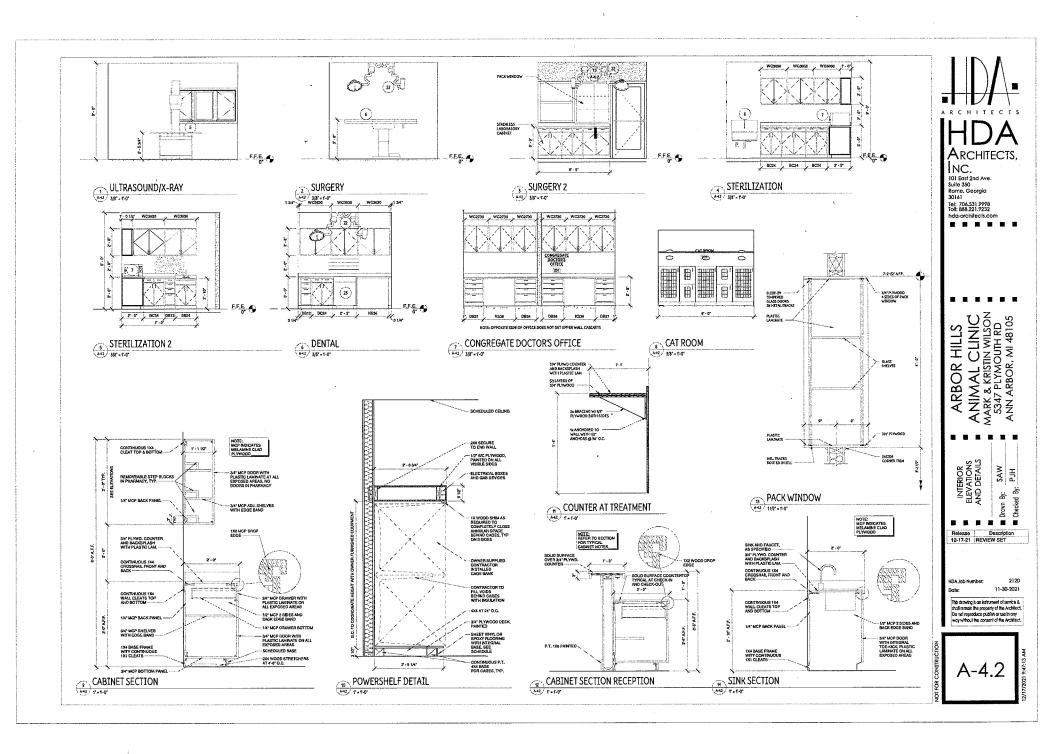
STAIR SECTIONS AND DETAILS Release Description 12-17-21 REVIEW SET HDA Job Number: This clawing is an instrument of service & shall remain the property of the Architect. Do not reproduce publish or use in any way without the consent of the Architect.

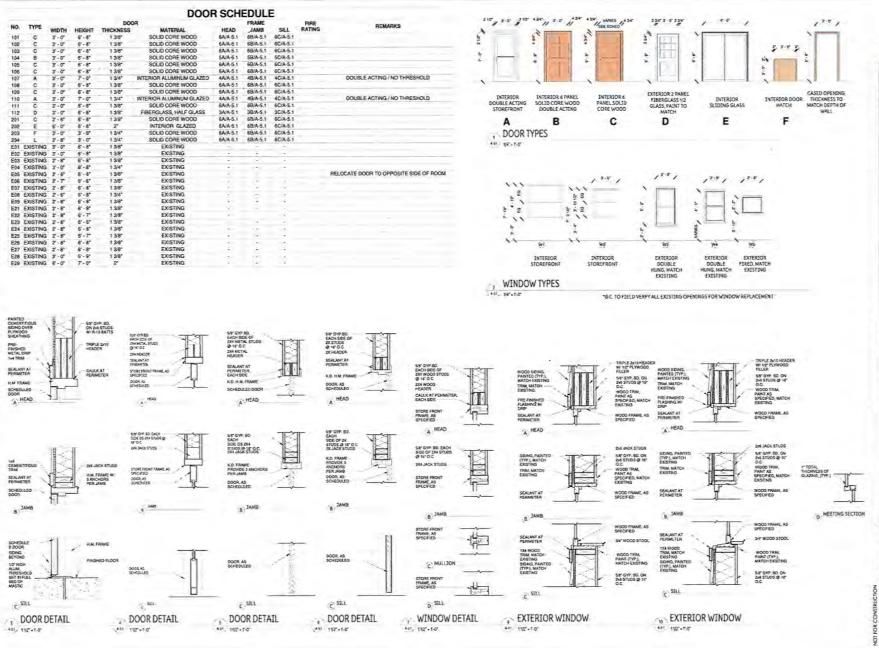
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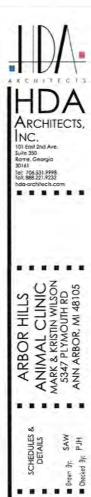
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GENERAL STRUCTURAL NOTES

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- AND DESTINATION OF STATE OF THE SITE.

 HE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC. WITH THE
 ARCHITECTURAL DAWNINGS PAIGN TO PROCEDURE WITH THE WORK.

CONCRETE

ALL CONCRETE PROPORTIONING, MIXING, TRANSPORTATION, PLACING, TESTING, AND CURING SHALL CONFORM TO ACL SOL ALL CONCRETE SHALL BE LABORATORY DESIGNED AND CONTROLLED TO MEET THE REQUIREMENTS OF ACIA'S AND THE PROJECTS DESIGN BUILDING CODE.

USE OF CALCIUM CHLORIDE CHLORIDE 10%, OR OTHER SALTS IN CONCRETE IS PROHIBITED.
CONCRETE SHALL CONTORN TO THE FOLLOWING:
FOR 28 DAYS
TYPE AGGREGATE
4,000
MORMAL WEIGHT
SUAD-ON-FRADE
0.50 NORMAL WEIGHT FOOTINGS 0.55
NORMAL WEIGHT ALL OTHER CONCRETE 0.50 3.000 4.000

THE AIR CONTENT IN ALL CONCRETE EXPOSED TO WEATHER SHALL BE BETWEEN IS & 3%.

CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS NOTED BELOW, ON PER LATEST ACTIONS CONDITIONS OTHER THAN THOSE LISTED:

CHANGER ALL EXPOSED CORNER 3/4" MINTMUN.

ALL HOCKS CALLED FOR IN STRUCTURAL DRAWINGS SHALL BE ACT STANDARD HOCKS, UNC.

DESINEORCHUG STEEL SHALL CONFORM TO ASTM ASSS GRADE 60 1000

ALL WELDED WIRE HESH SHALL CONFORM TO ASTEMANS, LAP TWO SQUARES AT SPLECES.

DO NOT WELD REINFORCING STEEL UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER

THE ALL REINFORCING STEEL AND EMBEDS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. THE CONTRACTOR SHALL PROVIDE SUPPORTS TO MAINTAIN THE REQUIRED REINFORCING POSITION. WET STICKING, DOWELS INTO CONCRETE IS NOT PERMITTED.

THE CONTRACTOR SHALL COMPARE THE STRUCTURAL PLANS AND DETAILS WITH THE ARCHITECTURAL PANS AND DETAILS AND REPORT ANY DISCRIPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF SHOP DRAWINGS.

THE CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF 1% OF TOTAL REINFORCING STEEL FOR THE PROJECT TO BE FARRICATED AND PLACED DURING CONSTRUCTION AT THE DIRECTION OF THE STRUCTURAL DIGHTER. IN ADDITION TO THE REINFORCING STEEL REQUIRED BY THE STRUCTURAL DAMPING STEEL WARRASHALL RECEPTS CEDEL FOR ANY MUNERAP QUARITH AT THE FORD OF THE PROJECT.

FOUNDATION

A GEDIECHNICAL LINGIENER REDISTERED EN THE STATE OF THE PROTECT SHALL DISPECT AND ASSURE THE ADEQUACY OF ALL SUBGRADES, FILLS AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLARS, FIC WRITTEN ACCEPTANCE OF THE WORLD INSPECTED AND VERIFICATION OF SSUMED SOIL BEACHES PRESSED SHALL BE SUBMITTED TO THE RECHITECT AND THE VIOLUTUAL REGISTER.

WOOD TRUSSES

TROS MANUFACTURES (SIAL SUBJECT SEEP DROWNESS) SIGLOTING ACTUAL INSIGLATION, DESIGN, ORDIGINET AT BECAUSE SCHOOL MANUFACTURES (SIAL SUBJECT SU

ROOF FRAMING PLAN AND TRUSS TYPES ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE DESIGN CONCEPT ONLY FOR ROOF CONTENDATION

TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH ANSITYML "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION".

ROOF TRUSS DESIGN CRITERIA

BRACE BOTTOM CHORD AS REQUIRED FOR WIND UPLIFT.

COORDINATE ROOF AND FLOOR TRUSS LOCATIONICON TIGURATION WITH PLUMBING WALLS AND HVAC EQUIPMENTS DIAS TO AVOID CONTLICTS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF DUCTS, STACKS, PIPES, ETC.

THEODAY: THES BRACHS SALL BE JIMIALED BLACCEDAYS ATTH TECHNELOND DESIGN PERCEITATION FOR THE PORMET BRACHS OF HEAT A ALT CONNECTION WOOD TRESSEY FOR SAILS OF WHICH ARE ALT CONNECTED WOOD TRUSSEY FOR SAIL SALL LIVES BRACHS OF REVIOUS USING LING AND BRACHS SHETH PLATE CONNECTED WOOD TRUSSEY TID HISLINSTALL ALL WEB BRACHS REQUIRED BY THE TRUSS DECISION THE PROPERTY BOTTOM CHOOK AND WEB BRACHS SHALL REMAIN PERMENTION FOR ALL WEB BRACHS REQUIRED BY THE TRUSS

SUPPLEMENTARY NOTES

trie contractor is solely responstrie for the design, adequacy, and safety of erection, bracing, shoring, temporary Supports, etc. The structural elements are not considered stable until the structure is complete.

REVIEW OF THE SUBMITTAL INFORMATION SHALL BE FOR GENERAL REQUIREMENTS OF THE PROJECT AND SHALL NOT INCLUDE CHECKING OF DETAILED DIMENSIONS OR DETAILED QUANTITIES, NOR REVIEW OF THE CONTRACTORS SAFETY MEASURES ON OR OFF THE WORKSTIE OR THE MEMAS AND METHODS OF DOING ANY MORK.

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND ARCHITECTURAL AND STRUCTURAL PLAN DIMENSIONS AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS.

ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH FOLIDMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.

ANY ENGINEEZING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP BRANCINGS PRIOR TO SUBMITTAL TO ARCHITECT/EMGINEES. SUDMITHALS WHICH ON NOT CONTAIN THE CONTRACTORS SHOP DRAWNING STAMP OR HAVE BEEN MERELY "RUBBER STAMPED" SHALL BE RETURNED WITHOUT REVIEW CONTRACTOR SHOULD ALLOW THO WEEKER FOR SUBMITHAN REVIEW.

CONTRACTOR SHALL NOT ORDER MATERIAL OR COMMENCE WITH CONSTRUCTION UNITE. SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED, WORK DONE OR ORDERS PLACED BEFORE SHOP DRAWING APPROVAL IS AT THE CONTRACTOR'S RISK.

THE PROJECTS STRUCTURAL DRAWINGS AND ELECTRONIC FILES ARE THE PROPERTY OF HOA ARCHITECTS, INC. THE CONTRACTOR AND SURCONTRACTOR SHALL COMPRISATE HOA ARCHITECTS, INC. FOR THE USE OF THE PROJECTS CAD FILES FOR ANY PURPOSE INCLUDING SHOP ORAWING PREPARATION.

THE CONTRACTOR SHALL NOT SCALE DRAWINGS. DIMENSIONS SHOWN ON ARCHITECTURAL AND STRUCTURAL PLANS AND DETAILS WILL CONTROL.

WOOD

CLIP, CONFECTIONS, HAMBERS, MOLD-DOWNS, TEC. SHOWN ON THESE DRAWINGS ARE SIMPSON STRONG-TIE CONNECTORS, UND. FASTERESS OF DITHER MANUFACURERS MAY BE SUSSTITUTED PORVIDED THE LOAD VALUES OF THE SUBSTITUTED FASTERER FOR GROUP IT WORD SPECIES FORMULS OR DECEEDS HIS SPECIFIED FASTERIES.

NATILING OF ALL MEMERERS SHALL BE IN ACCORDANCE WITH THE BUILDING CODE, SEE CODE FOR TABLE.

ALL SLEEPERS AND SILLS SHALL BE HADE OF PRESSURE TREATED WOOD.

AT OPPININGS O'OR LESS PROVIDE ONE STUD UNDER HEADER, AT OPERINGS OVER & PROVIDE 2 STUDS UNDER HEADER. STUDS FULL HEIGHT EACH SIZE OF EXTERIOR OF MINNES SMALL EQUAL ONE HALF THE WOMEN OF STUDE INTERREPTED BY THE OPPINING ROUNDED UP CE. IF S STUDS ARE DITERREPTED BY THE OFFICIANG PROVIDE 2 FLU HEIGHT STUDS EACH SIZE OF THE ORSHING IN ADDITION TO THE STUDS UNDER

AT OPENINGS, PROVIDE 1-LSTAM SEMPSON STRAP TO STUDS EACH END OF HEADERS. PROVIDE 2 HEADER STRAPS AT OPENINGS 6' AND GREATER, MOVE REQUIRED DEE SCHED) FLOOR TO FLOOR THANGS ENHANT OPENING TO EACH SIZE OF OPENING (ONE MALE EACH SIZE), ALSO, PROVIDE LITZO FORMATORY IN FOLDOWN TO STUDS SEACH SIZE OF OPENING FAN GREATER.

STILL PLATE BOLT AND ANCHOR BOLT WASHERS SHALL BE 1/8">2">2" AT BEARING LOCATIONS WITH UPLIFT.

ROOF SHEATHING SHALL BE 19732" MINIHUM APA RATED SHATHING, EXPOSURE 1 WITH 40720 SPAN RATING.

WALL SHEATHING SHALL BE 7/16" MINIMUH APA RATED SHEATHING, EXPOSURE 1 WITH 24/16 SPAN RATING, SHEATHING MAY BES CRITINED VERTICALLY OR HORZONTALLY FOR FLEXIBLE WALL FINISHES SHEATHING WASTS BY ORIGINED HORZONTALLY FOR FLEXIBLE WALL FINISHES SHEATHING OR 15/12" 2-05 ORIGINED HORZONTALLY FOR BRITILE WALL FINISHES SHEATHING OR 15/12" 2-05 TAYSHEATH RATEWOOD OR 15/12" COS BE 15/20.

NON SHEAR WALL WOOD WALL SHATHING SHALL BE UNSLOCKED, FASTER SHEATHING TO STIDS WIRE Q 6' OC AT PANEL EDGES AND AT 6' OC AT INTERNEDIATE SUPPORS, FOR NATLING REQUIREMENTS AT SHEAR WALLS, SEE SHEAR WALL SCHEDULE

ROOF DECKING SHALL BE NAILED WITH AS NAILS AT 7/16" DECK, SPACE NAILS AT 6" AT SUPPORTED EDGES OF DECK (4" AT EXTERIOR WALLS) AND 6" SPACING AT INTERNEDIAL TE SUPPORTS, NAILS SHALL BEATING SHANK.

PROVIDE A MINIMUM OF 3 STUDS UNDER BEAMS OR GIRDER TRUSSES CARRYING FLOOR OR ROOF LOADS, UND ON PLAN

ROOF JOIST SANLL BE LATERALLY SUPPORTED AT THE ENDS BY SOLID BLOCKING OR DIAGONAL STRUTS, SUCH BRIDGING MAY BE CHITTED WHERE ETH OF JUIST IS MALED TO A HEADER, BAND JOIST OR TO AN ADJOINING SUITD, ALSO PROVIDE SOLID BLOCKING OR DIAGONAL, STRUTS AT 80-90 WARDHOW SPACELY.

ALL DOUBLE HEADERS SHALL BE NATED TOGETHER WITH 164 NAILSS STAGGERED AT 16" ON CENTER 2" FROM TOP AND BOTTOM. HEADERS SHALL BE 2-2-12, UNO.

HOLES AND NOTCHES HUST SE APPROVED BY THE EXIGINEER. IF APPROVED THE NOTCHES ON THE ENDS OF JOISTS SHALL NOT EXCEED ONE-FOUNT HIS DEPTH. HOLES SOURCE POR JOYER OF CASES UNILL NOT ME WITHOUT HE IT DO AS DOTTOM THIS OF THE TODIST DEPTH HAD THE FOUNTERS OF STOKE ONE SOURCE HOLD SHALL BOT DEVELOPED. HIS THE NOTCH THE PROVINCE HES OF SHE STAND HIS HOW AS DOTTOM OF JOIST SHALL HOLD OCCEED ONE STATH THE JOIST DEPTH AND SHALL HOT BE LOCATED IN THE HIDDLE ONE-THERD OF THE SPAN.

STRESS GRADE. SOUTHER PINE NO. 2 OR ENGINEER APPROVED EQUAL. ALL DESIGN VALUES ARE UNDER HORMAL LOADING AND IN DRY CONDITIONS OF SERVICE. SYP MAY BE SUBSTITUTED FOR SPF.

Pressure-treat Lunger in accordance with the Namual of Recommended Practice of the American wood preservers Association (Ampa).

all fasterners and nails in contact with pressure treated lumber shall be mand of type 204 or type 316 stadness steel unless the lumber is treated with CCA-C or BRC (DOT), but not SBX (DOT) with sodium stlicate (NASIOZ).



101 East 2nd Ave. Suite 350 Rome. Georgia 30161

Tel: 706,531,9998 Toll: 888,221,9232 hda-architects.com

ARBOR HILLS
ANIMAL CLINIC
MARK & KRISTIN WILSON
5347 PLYMOUTH RD
ANN ARBOR, MI 48105

STRUCTURAL NOTES

N N N

----Description 12-17-21 REVIEW SET

SAW PJH

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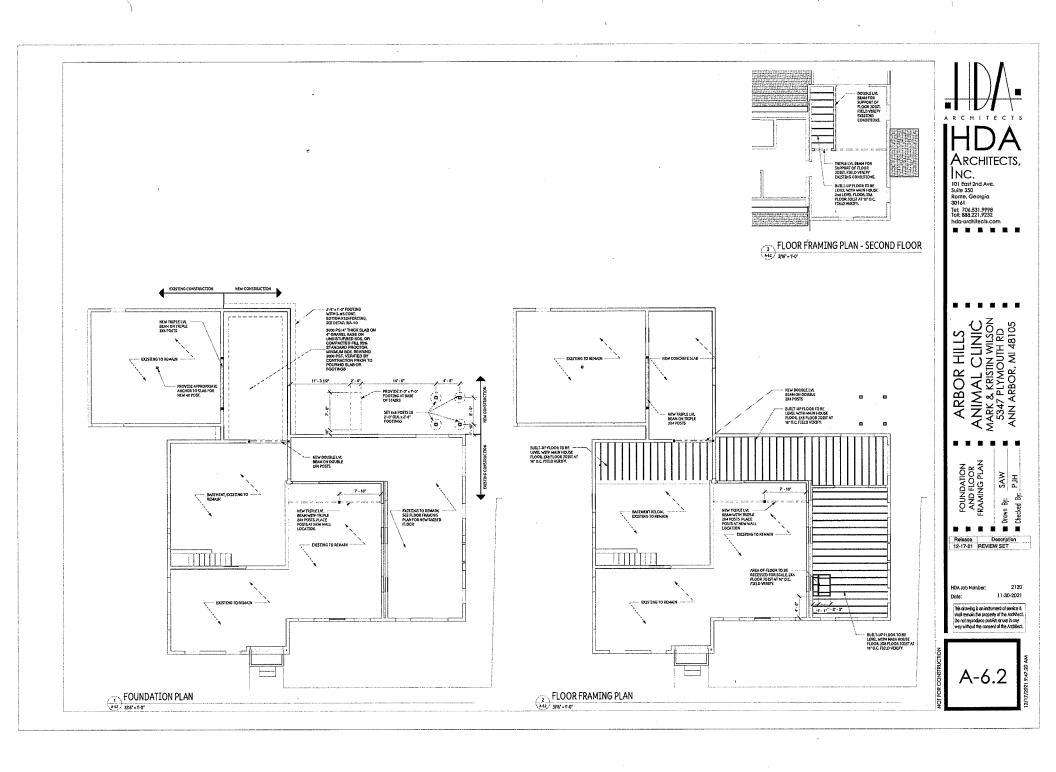
11-30-2021

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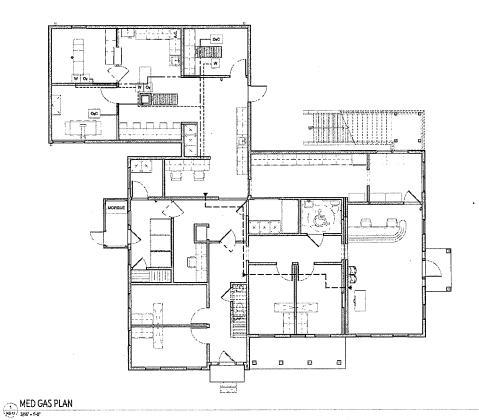
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MED GAS PLAN-BASEMENT

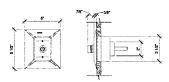


LEGEND	PURCHASED BY	
o.c	02 CEILING OUTLET	OWNER
O ₁	OS WALL DUTLET	
w	WASTE DAS OUTLET	OWNER
	WASTE GAS ANESTHESI	CONTRACTOR
	O2 LINE	CONTRACTOR
	CENTRAL VACUUM	CONTRACTOR

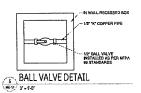
GENERAL NOTES



O2 CEILING OUTLET, TYP.



O2 WALL PLATE, TYP.



INC.

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5347 PLYMOUTH RD
ANN ARBOR, MI 48105

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Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>

5347 Plymouth Rd

2 messages

Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>

Mon, Dec 20, 2021 at 12:38 PM

To: Peter J Hill <pete@hda-architects.com>, Jim <jim@hda-architects.com>, Susan Wade <susan@hda-architects.com>

I think I sent an email on Friday asking this, but in case I didn't, do you have any exterior drawings that show the placement of any HVAC equipment and the Generator?

Mark T. Wilson, Practice Manager, Arbor Hills Animal Clinic (he/him)

Jim <jim@hda-architects.com>

Mon, Dec 20, 2021 at 1:12 PM

To: Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>, Peter J Hill <pet@hda-architects.com>, Susan Wade <susan@hda-architects.com>

Hello Mark,

We don't have any exterior shots of these locations, but their locations will be behind the new surgery suite. This equipment will also be behind the fence.

Thanks,

Jim



Hill Design Associates Architects, Inc.

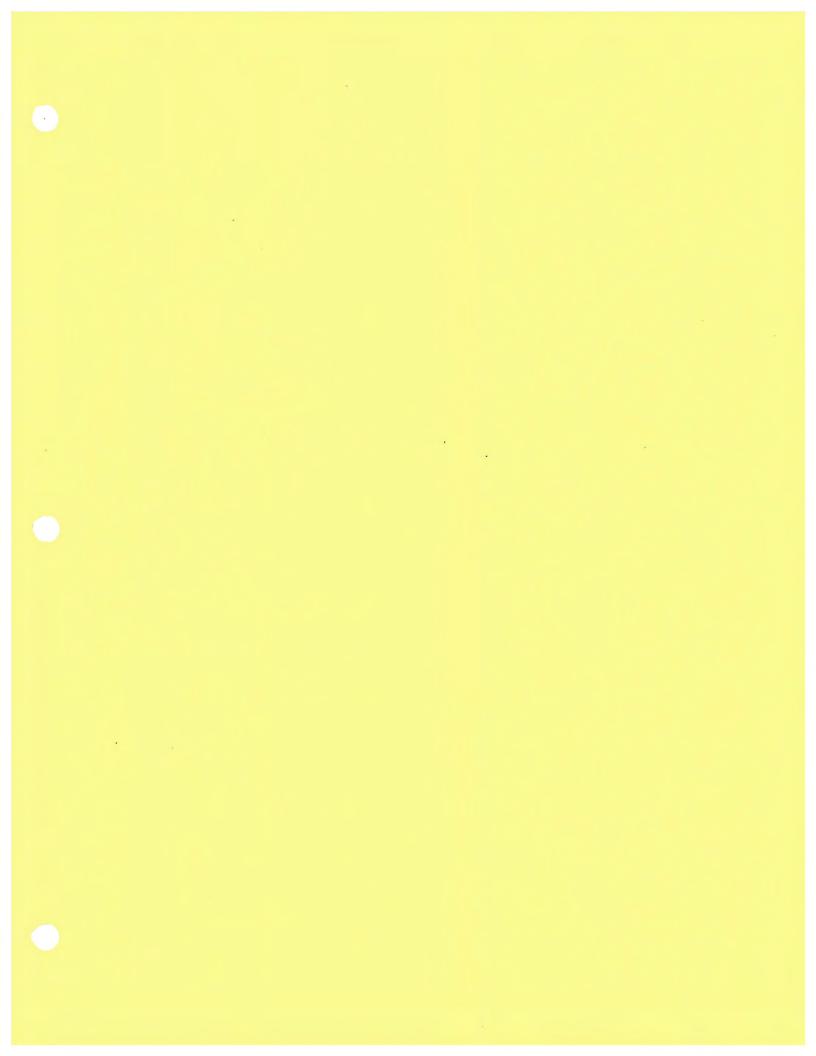
Rome GA Dawsonville GA

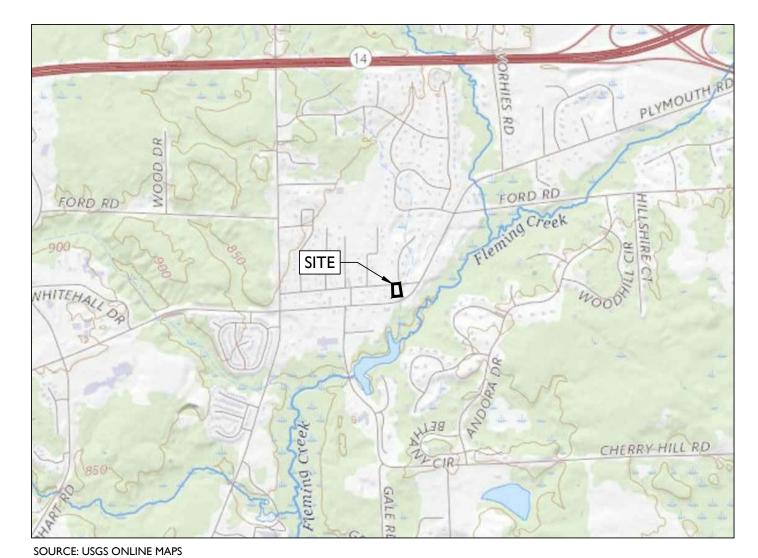
888.221.9232 toll free

706.531.9998

706.531.9966

[Quoted text hidden]





LOCATION MAP

SOURCE: GOOGLE EARTH PRO

Know what's **below**

Call before you dig.

SCALE: $I'' = 2,000' \pm$

SITE IMPROVEMENT PLANS **FOR**

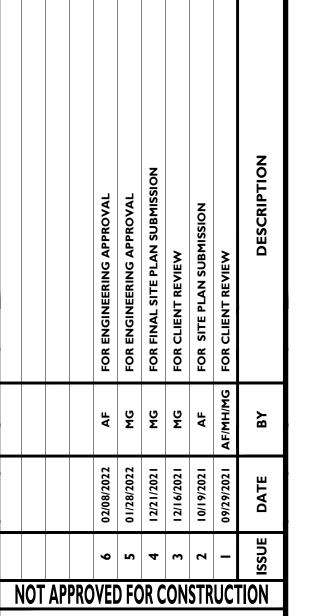
5347 PLYMOUTH ROAD PROPOSED VETERINARY CLINIC

PARCEL ID: 10-18-155-013 5347 PLYMOUTH ROAD SUPERIOR CHARTER TOWNSHIP, WASHTENAW COUNTY, MICHIGAN 48105

APPLICANT

ZONING DISTRICT

MARKTWILSON@ARBORHILLSVET.COM



STONEFIELD engineering & design

SCALE: AS SHOWN PROJECT ID: DET-210369

COVER SHEET

DRAWING:

C-I



AERIAL MAP

SCALE: I" = 100'±

R-3 - SINGLE-FAMILY RESIDENTIAL **CHURCH ROAD** R-2 - SINGLE-FAMILY RESIDENTIAL PROJECT VC - VILLAGE CENTER SITE PLYMOUTH ROAD SOURCE: SUPERIOR CHARTER TOWNSHIP ZONING MAP **ZONING MAP**

SCALE: $I'' = 100' \pm$

PLANS PREPARED BY:



Detroit, MI · Rutherford, NJ · New York, NY Princeton, NJ · Tampa, FL · Boston, MA

www.stonefieldeng.com

607 Shelby Suite 200, Detroit, MI 48226 Phone 248.247.1115

PLAN REFERENCE MATERIALS:

- I. THIS PLAN SET REFERENCES THE FOLLOWING DOCUMENTS **INCLUDING, BUT NOT LIMITED TO:** ALTA/NSPS LAND TITLE SURVEY PREPARED BY
- **KEM-TEC A GROUP OF COMPANIES DATED: 12/23/2021** AERIAL MAP OBTAINED FROM GOOGLE EARTH PRO LOCATION MAP OBTAINED FROM USGS ONLINE MAPS
- 2. ALL REFERENCE MATERIAL LISTED ABOVE SHALL BE CONSIDERED A PART OF THIS PLAN SET AND ALL INFORMATION CONTAINED WITHIN THESE MATERIALS SHALL BE UTILIZED IN CONJUNCTION WITH THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF EACH REFERENCE AND REVIEW IT THOROUGHLY PRIOR TO THE START OF

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

SHEET INDEX

DRAWING TITLE

GRADING & DRAINAGE PLAN

CONSTRUCTION DETAILS

SIGHT DISTANCE EXHIBIT

SOIL EROSION & SEDIMENT CONTROL PLAN

STORMWATER DESIGN CALCULATIONS

COVER SHEET

DEMOLITION PLAN

LANDSCAPE PLAN

LIGHTING PLAN

SHEET#

C-2

C-3

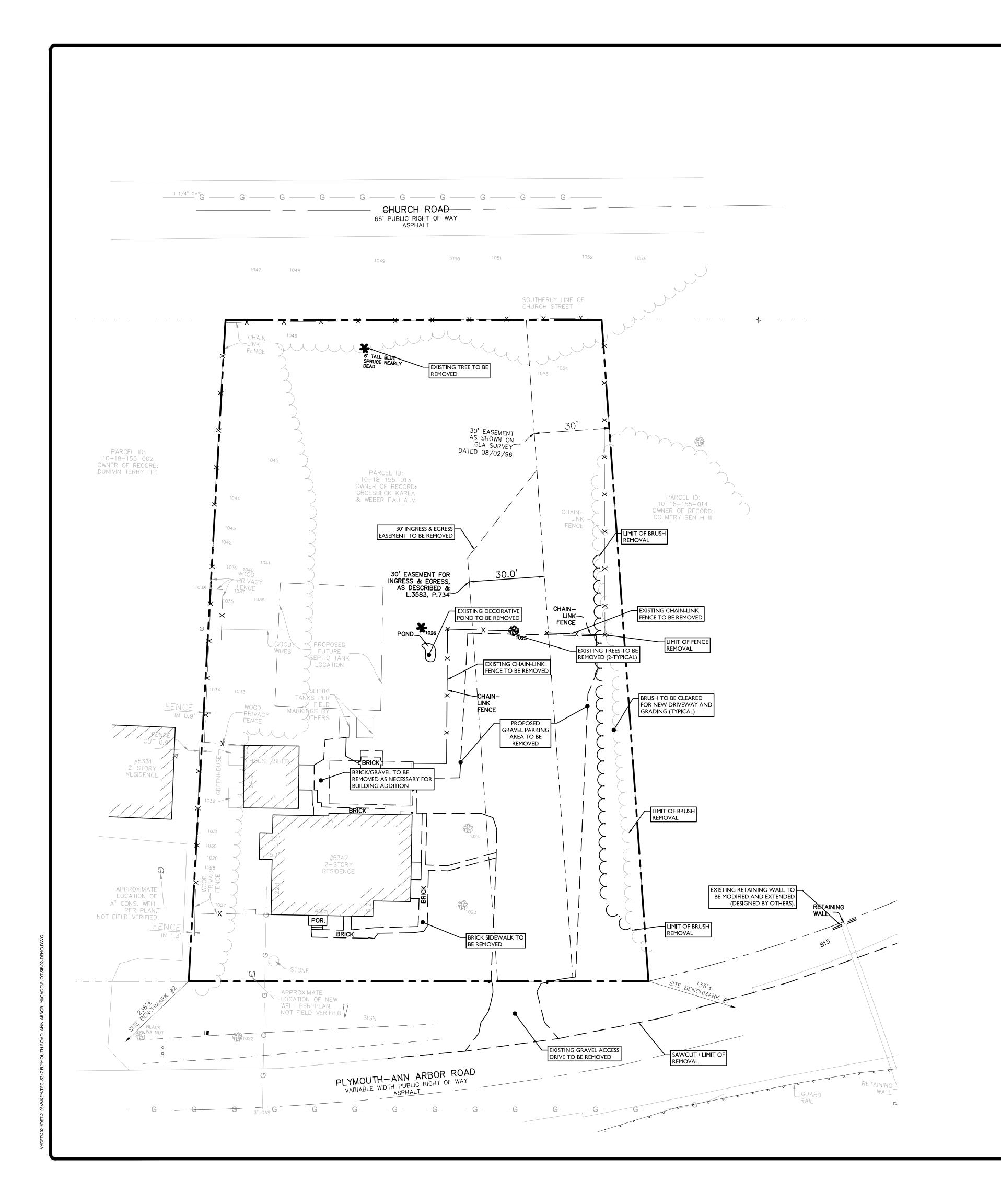
C-4

C-5

C-6

C-7

C-9 TO C-10





SYMBOL

DESCRIPTION

FEATURE TO BE REMOVED / DEMOLISHED

LIMIT OF DISTURBANCE

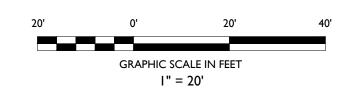
ALL SITE FEATURES WITHIN THE LIMIT THIS PLAN ARE TO REMAIN & BE PROTECTED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF SIGNIFICANT DISCREPANCIES ARE DISCERNED BETWEEN THIS PLAN AND FIELD **CONDITIONS**



DEMOLITION NOTES

- I. THE WORK REFLECTED ON THE DEMOLITION PLAN IS TO PROVIDE GENERAL INFORMATION TOWARDS THE EXISTING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE ENTIRE PLAN SET AND ASSOCIATED REPORTS/REFERENCE DOCUMENTS INCLUDING ALL DEMOLITION ACTIVITIES AND INCIDENTAL TASKS NECESSARY TO COMPLETE THE
- SITE IMPROVEMENTS. 2. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND
- METHODS OF DEMOLITION ACTIVITIES.

 3. EXPLOSIVES SHALL NOT BE USED UNLESS WRITTEN CONSENT FROM BOTH THE OWNER AND ANY APPLICABLE GOVERNING AGENCY IS OBTAINED. BEFORE THE START OF ANY EXPLOSIVE PROGRAM, THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL LOCAL, STATE, AND FEDERAL PERMITS. ADDITIONALLY, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL SEISMIC TESTING AS REQUIRED AND ANY
- DAMAGES AS THE RESULT OF SAID DEMOLITION PRACTICES. 4. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL UTILITIES ARE DISCONNECTED IN ACCORDANCE WITH THE UTILITY AUTHORITY'S REQUIREMENTS PRIOR TO STARTING THE DEMOLITION OF ANY STRUCTURE. ALL EXCAVATIONS ASSOCIATED WITH DEMOLISHED STRUCTURES OR REMOVED TANKS SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO SUPPORT SITE AND BUILDING IMPROVEMENTS. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT DURING BACKFILLING ACTIVITIES TO OBSERVE AND CERTIFY THAT BACKFILL MATERIAL WAS COMPACTED TO A SUITABLE CONDITION.
- 5. DEMOLISHED DEBRIS SHALL NOT BE BURIED ON SITE. ALL WASTE/DEBRIS GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL RECORDS OF THE DISPOSAL TO DEMONSTRATE COMPLIANCE WITH THE ABOVE REGULATIONS.



Material Material

STONEFIELD engineering & design

KEN-TEG :
A GROUP OF COMPANIES

ROAD **YMOUTH**

7

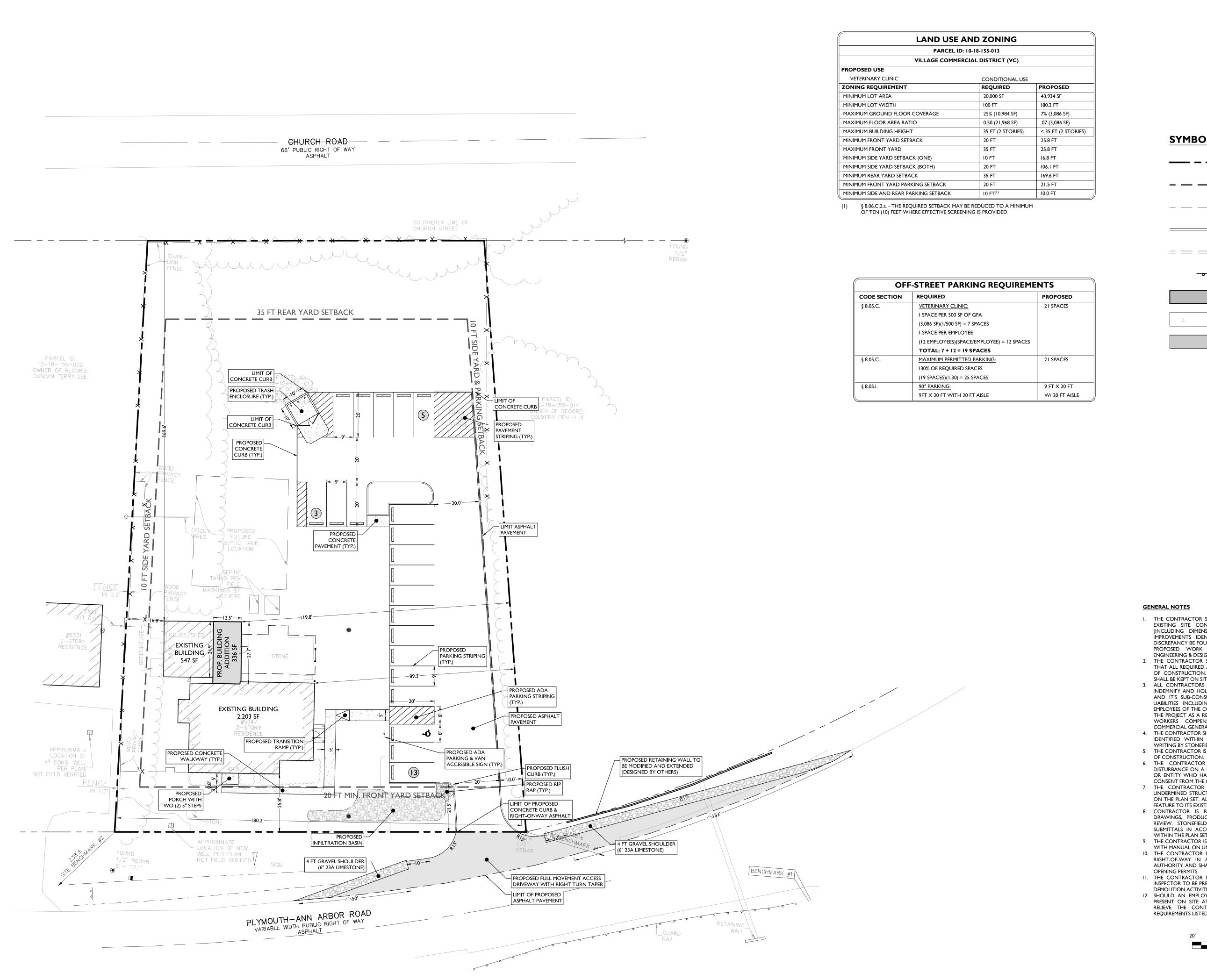
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I" = 20' PROJECT ID: DET-210369

DEMOLITION PLAN

DRAWING:





SYMBOL PROPERTY LINE

SETBACK LINE

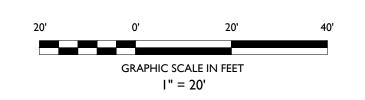
PROPOSED CURB

DESCRIPTION SAWCUT LINE = = = = = PROPOSED FLUSH CURB PROPOSED SIGNS / BOLLARDS PROPOSED BUILDING PROPOSED CONCRETE PROPOSED RIGHT-OF-WAY ASPHALT

GENERAL NOTES

- I. THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ENSURE
- THAT ALL REQUIRED APPROVALS HAVE BEEN OBTAINED PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION. ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS STONEFIELD ENGINEERING & DESIGN, LLC. AND IT'S SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES AND LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS CONNECTED TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS COMPENSATION, LIABILITY INSURANCE, AND LIMITS OF
- COMMERCIAL GENERAL LIABILITY INSURANCE. 4. THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY STONEFIELD ENGINEERING & DESIGN, LLC.

 5. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS
- 6. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE PROPERTY.
- 7. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTORS EXPENSE. 8. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC. WILL REVIEW THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS REFLECTED WITHIN THE PLAN SET.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. 10. THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS.
- 11. THE CONTRACTOR IS REQUIRED TO RETAIN AN OSHA CERTIFIED SAFETY INSPECTOR TO BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION & DEMOLITION ACTIVITIES.
- 12. SHOULD AN EMPLOYEE OF STONEFIELD ENGINEERING & DESIGN, LLC. BE PRESENT ON SITE AT ANY TIME DURING CONSTRUCTION, IT DOES NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN THIS PLAN SET.



			FOR ENGINEERING APPROVAL	FOR ENGINEERING APPROVAL	FOR FINAL SITE PLAN SUBMISSION	FOR CLIENT REVIEW	FOR SITE PLAN SUBMISSION	FOR CLIENT REVIEW	DESCRIPTION
			AF	MG	MG	MG	AF	AF/MH/MG	ВҮ
			02/08/2022	01/28/2022	12/21/2021	12/16/2021	10/19/2021	09/29/2021	DATE
			9	2	4	٣	2	_	ISSUE
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STONEFIEL engineering & design

0 TH R YMOUTH VETERINARY CLIN

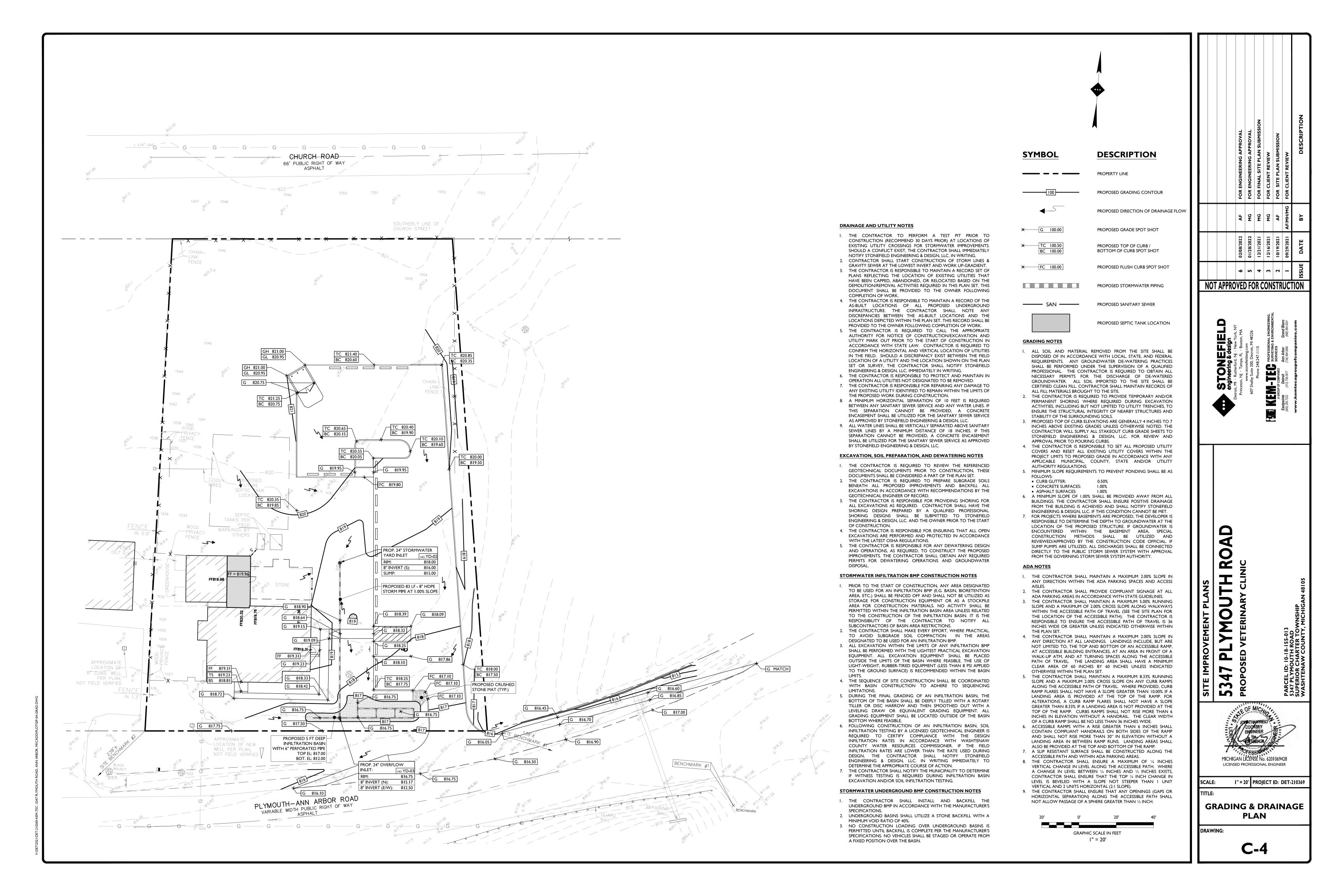
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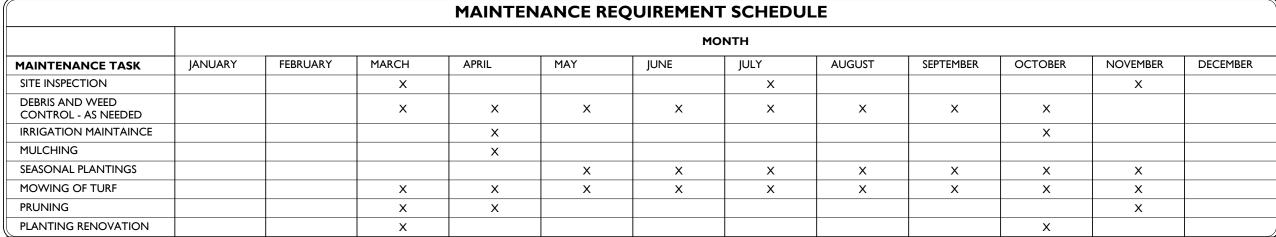
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I" = 20' PROJECT ID: DET-210369

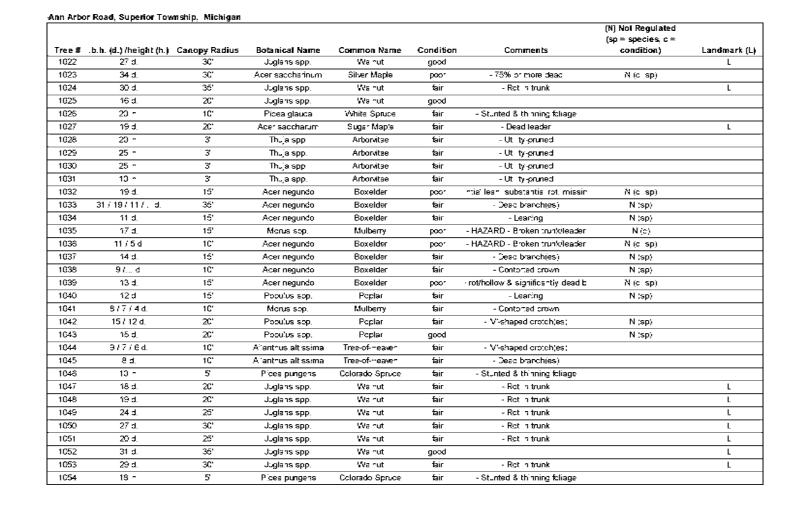
SITE PLAN DRAWING:







Know what's **below Call** before you dig.





			PLANT S	CHEDULE			
DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
	ACE	4	ACER RUBRUM	RED MAPLE	2.5" - 3" CAL	B&B	AS SHOWN
+	ABW	6	ACER RUBRUM 'BOWHALL'	BOWHALL RED MAPLE	2.5" - 3" CAL	B&B	AS SHOWN
£+3	GIN	4	GINKGO BILOBA `PRINCETON SENTRY`	PRINCETON SENTRY MAIDENHAIR TREE	2.5" - 3" CAL	B&B	AS SHOWN
EVERGREEN TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
	JUN	11	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6` - 7` HT	B&B	AS SHOWN
	THU	3	THUJA X `GREEN GIANT`	GREEN GIANT ARBORVITAE	6` - 7` HT	B&B	AS SHOWN
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
(+)	CEA	13	CEANOTHUS AMERICANUS	NEW JERSEY TEA	30" - 36"	POT	AS SHOWN
⊗	HYD	4	HYDRANGEA MACROPHYLLA `ENDLESS SUMMER`	BAILMER HYDRANGEA	30" - 36"	РОТ	AS SHOWN
EVERGREEN SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
0	ICO	13	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	18" - 24"	РОТ	AS SHOWN
SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
	CAR	75	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	I GAL.	POT	18" o.c.

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

LA	NDSCAPING AND BUFFER REQUIR	REMENTS
CODE SECTION	REQUIRED	PROPOSED
	LANDSCAPE STRIP	
§ 3.203.F	A LANDSCAPE STRIP OF 20 FT ALONG ALL STREET FRONTAGES AND EXTEND ACROSS THE ENTIRE WIDTH OF THE LOT.	45.36 FT
§ 3.203-F.3	THE LANDSCAPE STRIP AND FRONT YARD SETBACK AREA SHALL BE IMPROVED WITH PLANTINGS.	PROVIDED
	GREENBELT BUFFER:	
14.10-D.1(a)	MINIMUM WIDTH: 10 FT	45.36 FT
14.10-D.1(c)	I TREE AND 3 SHRUBS PER 15 LF	
	TREES:	
	(183 FT)/(1 TREE / 15 FT FRONTAGE) = 12 TREES	12 TREES
	SHRUBS:	
	(183 FT)/(3 SHRUBS / 15 FT FRONTAGE) = 37 SHRUBS	37 SHRUBS
§ 7.304-E	ANY LANDSCAPE STRIP REQUIRED ALONG CHURCH ROAD SHALL BE LANDSCAPED WITH PLANT MATERIALS AND ARCHITECTURAL ELEMENTS TO SCREEN VIEWS OF PARKING LOTS AND SERVICE AREAS FROM CHURCH ROAD AND PROPERTIES FOR THE NORTH	PROVIDED
§ 8.06-B	PARKING AREA LANDSCAPING ANY OFF-STREET PARKING AREA PROVIDING 5 OR MORE SPACES SHALL BE LANDSCAPED AND SCREENED FROM ALL LOT BOUNDARIES AND ROAD RIGHTS-OF-WAY.	PROVIDED
§ 8.06-E.4	NO MORE THAN 20 PARKING SPACES SHALL BE PERMITTED IN A CONTINUOUS ROW WITHOUT INTERRUPTION BY A LANDSCAPED ISLAND OR SIMILAR ELEMENT.	13 SPACES
	SCREENING METHODS	
3 14.10-D.2(a)	SPACING BETWEEN INDIVIDUAL PLANTS SHALL NOT EXCEED 3 FT ON-CENTER.	PROVIDED
§ 14.10-D.2(C)	LOW-HEIGHT SHRUBS (2 TO 4 FT) SHALL BE USED TO PROVIDE SCREENING TO LOW-LEVEL IMPACTS.	PROVIDED
	INTERIOR LANDSCAPE ISLANDS	
§ 14.10-E.3	LANDSCAPED ISLANDS SHALL BE PROVIDED AT THE ENDS OF PARKING ROWS.	PROVIDED
§ 14.10-E.3.A	PLANTING ISLANDS SHALL HAVE A WIDTH OF 10 FT AND AREA OF 180 SF.	PROVIDED
§ 14.10-E.3.B	2 DECIDUOUS SHADE OR ORNAMENTAL TREES SHALL BE PROVIDED FOR EACH ISLAND. SHRUBS AND LIVE GROUNCOVER PLANTINGS SHALL BE USED TO COVER THE REMAINING AREAS OF THE ISLAND.	3 LANDSCAPE ISLAND 6 TREES AND GROUNDCOVER PROPOSED
§ 5.23.5.D	TREE MITIGATION	
	16" WALNUT TO BE REMOVED	
	MITIGATION: 50% OF ORIGINAL DBH	
	(16" CAL) * (0.50) = 8" CALIPER INCHES REQUIRED	8" CALIPER INCHES PROPOSED
§ 5.23.6.D	TREE MITIGATION LANDMARK TREE	
	20" WHITE SPRUCE TO BE REMOVED	
	MITIGATION: 50% OF ORIGINAL DBH	
	(20" CAL) * (0.50) = 10" CALIPER INCHES REQUIRED	10" CALIPER INCHES PROPOSED

(*) CONTRIBUTION TO THE TREE FUND FOR DEFICIENCY

NATURAL FEATURE AND OPEN SPACE NOTES:

I. NO SLOPES 12% TO 25% OR STEEP SLOPES 25% OR GREATER ARE

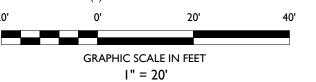
- PRESENT ON SITE. PROPERTY OWNER WILL OWN AND MAINTAIN OPEN SPACE FOR LONG-TERM MAINTENANCE PER THE INCLUDED MAINTENANCE
- PER FEMA FIRM FLOOD MAPPING (MAP #26161C0260E) NO INDICATION OF 100-YEAR FLOOD PLAN IS PRESENT ON THE

IRRIGATION NOTE:

IRRIGATION CONTRACTOR TO PROVIDE A DESIGN FOR AN IRRIGATION SYSTEM SEPARATING PLANTING BEDS FROM LAWN AREA. PRIOR TO CONSTRUCTION, DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE DESIGNER FOR REVIEW AND APPROVAL. WHERE POSSIBLE, DRIP IRRIGATION AND OTHER WATER CONSERVATION TECHNIQUES SUCH AS RAIN SENSORS SHALL BE IMPLEMENTED. CONTRACTOR TO VERIFY MAXIMUM ON SITE DYNAMIC WATER PRESSURE AVAILABLE MEASURED IN PSI. PRESSURE REDUCING DEVICES OR BOOSTER PUMPS SHALL BE PROVIDED TO MEET SYSTEM PRESSURE REQUIREMENTS. DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, CONTROLLERS, AND SLEEVES WITHIN HARDSCAPE AREAS.

LANDSCAPING NOTES

- I. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. 2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS
- WITH A MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED. 3. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM
- 3 INCH LAYER OF MULCH. 4. THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE 3 FEET HORIZONTAL TO I FOOT VERTICAL (3:1
- SLOPE) UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. 5. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S DIRECTION WITHIN AREAS OF DISTURBANCE.
- 6. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT CHANGES IN GRADE ARE PERMITTED IN DISTURBED LANDSCAPING
- 7. A MINIMUM OF (4) INCHES OF TOPSOIL SHALL BE PROVIDED FOR ALL LAWN AREAS, GROUND COVER AND PLANTING BEDS.
- 8. ALL PLANTING BEDS SHALL CONSIST OF SHREDDED HARDWOOD BARK MULCH OR SIMILAR AT A MINIMUM DEPTH OF (3) INCHES. MULCH AROUND TREES AND SHRUBS SHALL BE A MINIMUM OF (4)
- INCHES DEEP AND PULLED ONE (I) AWAY FROM TREE TRUNKS. 9. EFFECTIVE EDGE TREATMENT SHALL BE PROVIDED TO CONTAIN AND PREVENT MIGRATION OF THE MULCH.
- 10. PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE (I) YEAR AFTER INSTALLATION. II. PLANT MATERIALS SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION, FREE FROM WEEDS, DEBRIS AND REFUSE. TREE STAKES, GUY WIRES AND TREE WRAP SHALL BE REMOVED AFTER ONE (I) YEAR.

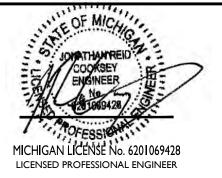


			FOR ENGINEERING APPROVAL	FOR ENGINEERING APPROVAL	FOR FINAL SITE PLAN SUBMISSION	FOR CLIENT REVIEW	FOR SITE PLAN SUBMISSION	FOR CLIENT REVIEW	DESCRIPTION	
			FOR E	FOR E	FOR FI	FOR CI	FOR S	FOR CI		
			AF	MG	MG	MG	AF	AF/MH/MG	ВУ	
			02/08/2022	01/28/2022	12/21/2021	12/16/2021	10/19/2021	09/29/2021	DATE	
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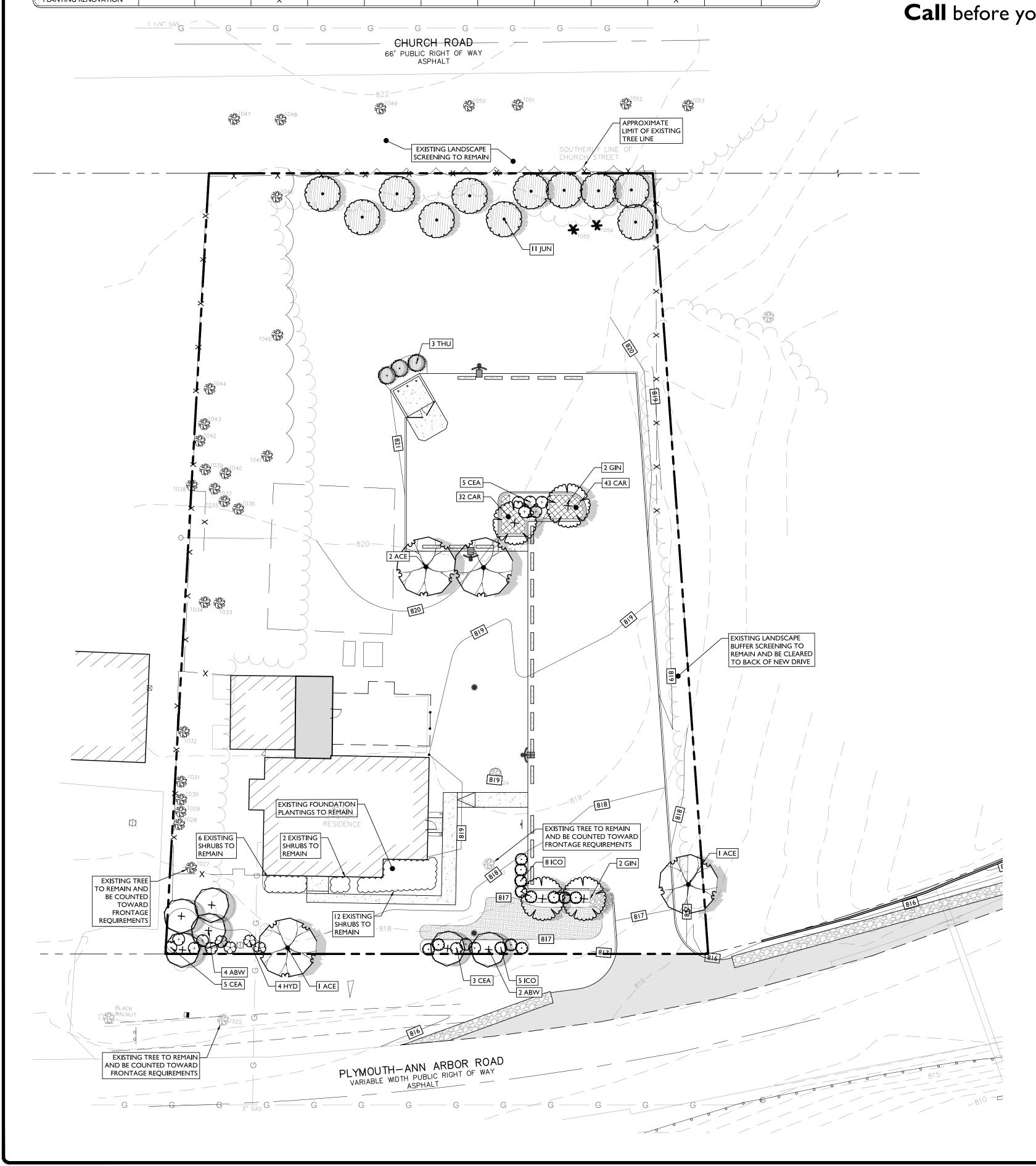
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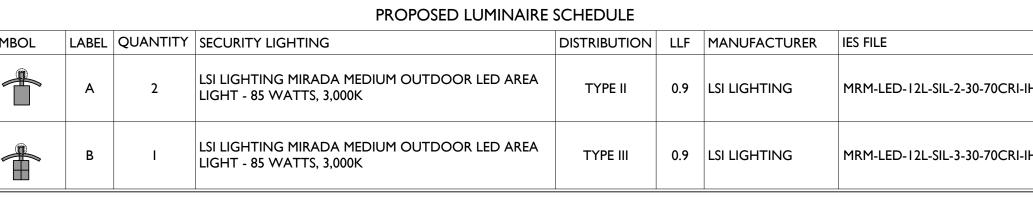
I" = 20' PROJECT ID: DET-210369

LANDSCAPING PLAN

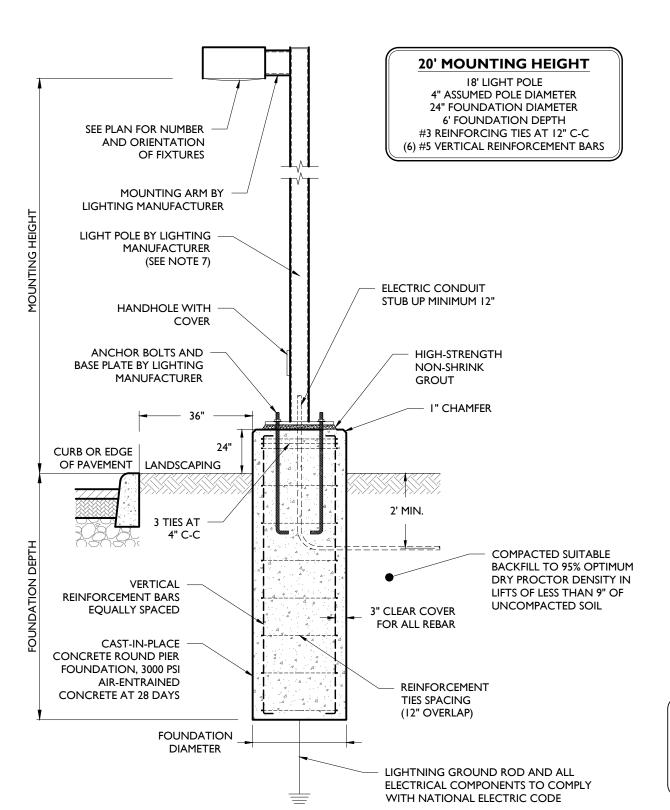
DRAWING:



	PROPOSED LUMINAIRE SCHEDULE									
SYMBOL	LABEL	QUANTITY	SECURITY LIGHTING	DISTRIBUTION	LLF	MANUFACTURER	IES FILE			
	A	2	LSI LIGHTING MIRADA MEDIUM OUTDOOR LED AREA LIGHT - 85 WATTS, 3,000K	TYPE II	0.9	LSI LIGHTING	MRM-LED-12L-SIL-2-30-70CRI-IH			
	В	I	LSI LIGHTING MIRADA MEDIUM OUTDOOR LED AREA LIGHT - 85 WATTS, 3,000K	TYPE III	0.9	LSI LIGHTING	MRM-LED-12L-SIL-3-30-70CRI-IH			



LIGHTING REQUIREMENTS						
CODE SECTION	PROPOSED					
§ 14.11.B.1.	FIXTURE SHIELDING:	PROVIDED				
	ALL FIXTURES SHALL BE FULLY SHIELDED					
§ 14.11.B.3.	MAXIMUM WATTAGE:	85 WATTS				
	250 W FOR FIXTURES UP TO 20 FT HEIGHT					
	400 W FOR FIXTURES ABOVE 20 FT HEIGHT					
§ 14.11.B.4.	MAXIMUM INTENSITY:					
	WITHIN SITE - 10 FC	4.7 FC				
	PROPERTY LINE - 0.2 FC (5 FT ABOVE GRADE)	0.2 FC				
§ 14.11.B.4.	MAXIMUM HEIGHT:	20 FT				
	LESS THAN 50 FT FROM PROPERTY LINE - 15 FT					
	50 FT TO 300 FT FROM PROPERTY LINE - 20 FT					

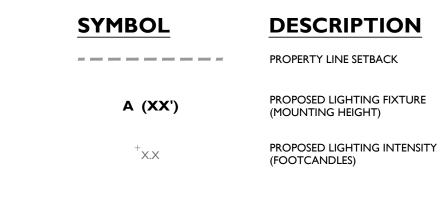


LIGHT POLE INSTALLATION DETAIL

NOTES: I. MINIMUM SOIL BEARING PRESSURE OF 1500 PSF, SOIL FRICTION ANGLE OF 30 DEGREES, AND SOIL DRY UNIT WEIGHT OF 120 PCF SHALL BE CONFIRMED IN THE FIELD BY A QUALIFIED PROFESSIONAL.

NOT TO SCALE

- 2. CAST-IN-PLACE CONCRETE SHALL BE CONSOLIDATED USING VIBRATOR.
- ALL REBAR TO BE NEW GRADE 60 STEEL. 4. PRE-CAST PIERS ACCEPTABLE UPON WRITTEN APPROVAL OF SHOP DRAWING BY ENGINEER.
- CONCRETE TO BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO INSTALLING LIGHT POLE. POURED CONCRETE MIX REQUIRED TO OBTAIN 80% OF DESIGN STRENGTH PRIOR TO INSTALLING LIGHT POLE.
- 6. CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" (WITHIN I" TOLERANCE). POLE SHALL BE RATED FOR 10 MPH HIGHER THAN MAXIMUM WIND SPEED 33FT ABOVE GROUND FOR THE AREA BASED.
- ON ANSI/ASCE 7-93.
- 9. WORK SHALL CONFORM TO ACI BEST PRACTICES FOR APPROPRIATE TEMPERATURE AND WEATHER CONDITIONS. 10. CONTRACTOR TO TEMPORARILY SUPPORT ADJACENT SOIL AND STRUCTURES DURING EXCAVATION IF REQUIRED.





LIGHTING FIXTURE "A" & "B"

GENERAL LIGHTING NOTES

- I. THE LIGHTING LEVELS DEPICTED WITHIN THE PLAN SET ARE CALCULATED UTILIZING DATA OBTAINED FROM THE LISTED MANUFACTURER. ACTUAL ILLUMINATION LEVELS AND PERFORMANCE OF ANY PROPOSED LIGHTING FIXTURE MAY VARY DUE TO UNCONTROLLABLE VARIABLES SUCH ARE WEATHER, VOLTAGE SUPPLY, LAMP TOLERANCE, EQUIPMENT SERVICE LIFE AND OTHER VARIABLE FIELD CONDITIONS.
- 2. WHERE APPLICABLE, THE EXISTING LIGHT LEVELS DEPICTED WITHIN THE PLAN SET SHALL BE CONSIDERED APPROXIMATE. THE EXISTING LIGHT LEVELS ARE BASED ON FIELD OBSERVATIONS AND THE MANUFACTURER'S DATA OF THE ASSUMED OR MOST SIMILAR LIGHTING FIXTURE MODEL.
- 3. UNLESS NOTED ELSEWHERE WITHIN THIS PLAN SET, THE LIGHT LOSS FACTORS USED IN THE LIGHTING ANALYSIS ARE AS FOLLOWS: LIGHT EMITTING DIODES (LED): 0.90 HIGH PRESSURE SODIUM:
- METAL HALIDE: 4. THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING, PRIOR TO THE START OF CONSTRUCTION, OF ANY PROPOSED LIGHTING LOCATIONS THAT CONFLICT WITH EXISTING/ PROPOSED DRAINAGE, UTILITY, OR OTHER IMPROVEMENTS.
- 5. THE CONTRACTOR IS RESPONSIBLE TO PREPARE A WIRING PLAN AND PROVIDE ELECTRIC SERVICE TO ALL PROPOSED LIGHTING FIXTURES. THE CONTRACTOR IS REQUIRED TO PREPARE AN AS-BUILT PLAN OF WIRING AND PROVIDE COPIES TO THE OWNER AND STONEFIELD ENGINEERING & DESIGN, LLC.

PEDESTRIAN WALKWAY AND ACCESS TO THE BUILDING TO BE ILLUMINATED BY ARCHITECTURAL FIXTURES.

NO	STONEFIELD AT						Ann Arbor Grand Blanc (388) 694,0001 I 09/29/2021 AF/MH/MG FOR CLIENT REVIEW	
T PLANS	STON STON	NARY CLINIC Princeton, NJ · Tampa, FL · Boston, MA	www.stonefieldeng.com 607 Shelby Suite 200, Detroit, MI 48226	Phone 248.247.1115	TEMENTAL ENGINEERING,	A GROUP OF COMPANIES SE	Eastpointe Detroit An (360) 295,7222 (313) 758.0677 (734)	SHIP www.kemtecagroupofcompanies.com

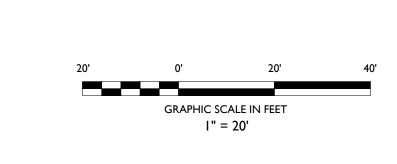
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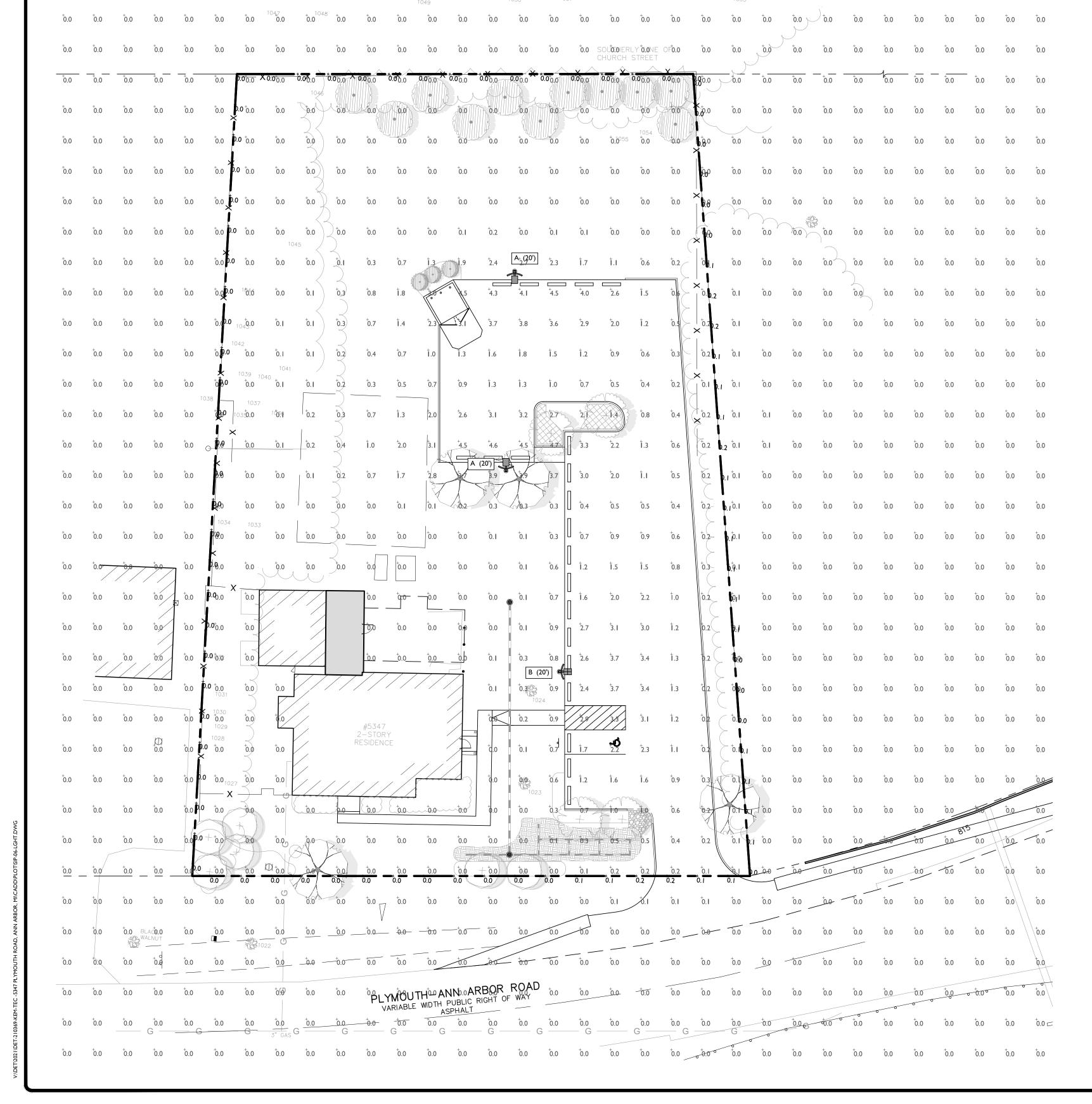


I" = 20' PROJECT ID: DET-210369

LIGHTING PLAN

DRAWING:

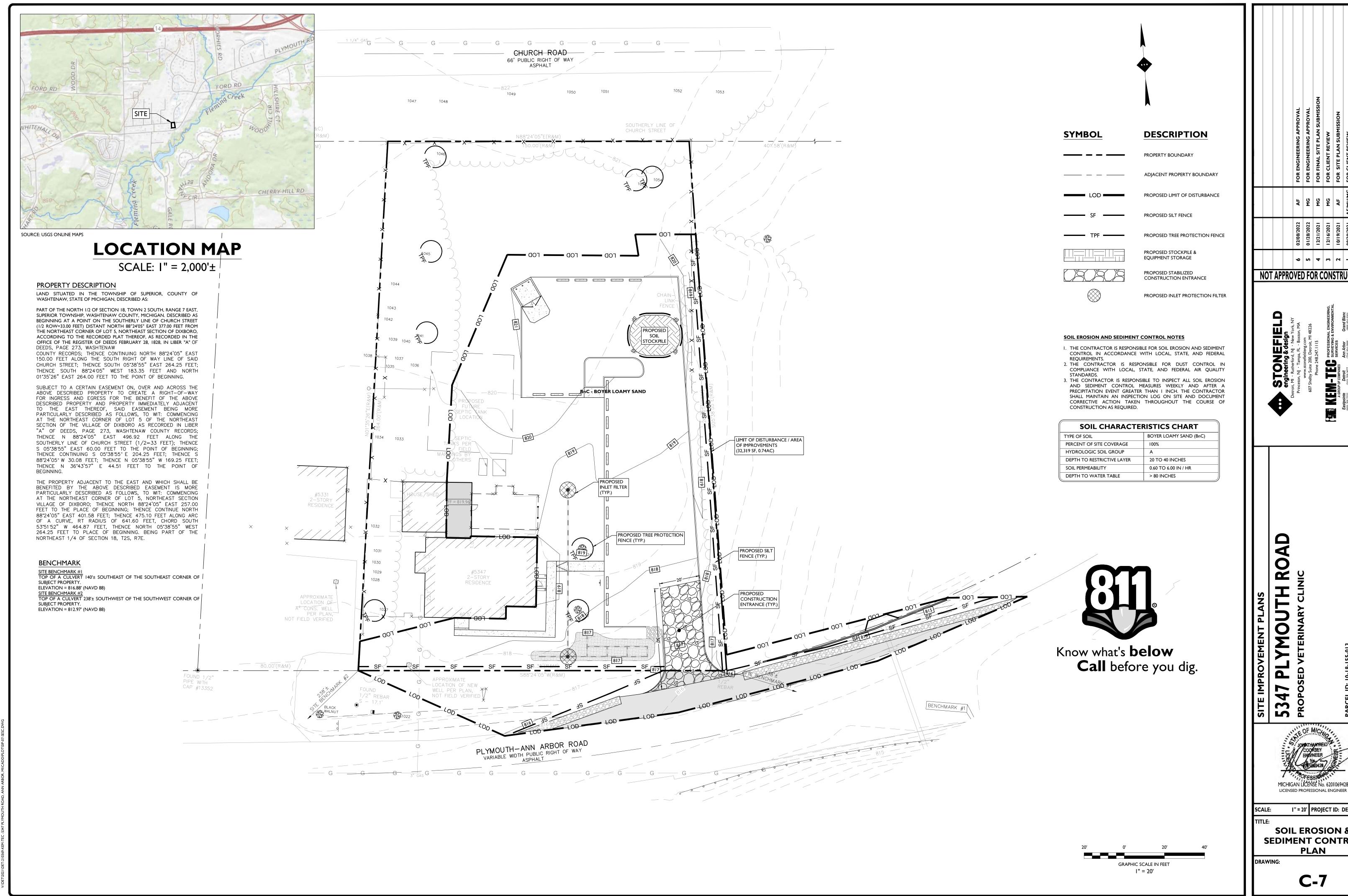




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66' PUBLIC RIGHT OF WAY

— CHURCH ROAD — — —



NOT APPROVED FOR CONSTRUCTION



I" = 20' PROJECT ID: DET-210369

SOIL EROSION & SEDIMENT CONTROL

WASHTENAW COUNTY STORMWA (Based on Washtenaw County Stormwater Mana)		W5. IMPERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CAL	CULATION (V _{bf-imp-post})	W10. DETENTION REQUIREMENTS	
Project: Arbor Hills Animal Clinic	Designer: MG Date: 02/08/22		Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN	$Q_p = 238.6 \text{*} T_c^{-0.82}$	Peak of the Unit Hydrograph, Q _p : 2,750 CFS / IN-MI ²
WI. DETERMINING POST-DEVELOPMENT COVER TYPES, AREAS, CURVE NI		S = (1000 / CN) - 10	Function of Watershed Soil & Conditions, S: 0.20 IN	*Site Area Excluding "Self Crediting" BMPs	*Total Site Area: 0.54 AC
RATIONAL METHOD VARIABLES (REQUIRED FOR FIRST FLUSH RUNOFF CALCULATIONS)		$Q = (P-0.2*S)^2/(P+0.8*S)$	Runoff, Q: 2.12 IN	$Q_{100} = Q_{100-per} + Q_{100-imp}$	100 Year Storm Runoff, Q ₁₀₀ : 5.10
Landcover Area (SF)	C-Value* Weighted Value		Impervious Cover Area: 10,838 SF	PF = (Q _p * Q ₁₀₀ * Area) / 640	Peak Flow, PF: 11.90 CFS
Building / Roof 336 x Pavement / Hardscape 10,502 x	0.95 = 319 0.95 = 9,977	$V_{bf-lmp-post} = Q * (1/12) * Area$	mpervious Cover Post Development Bankfull Volume, V _{BMmp-post} : 1,916 CF	$\Delta = PF - (0.15 * Area)$	Δ: 11.82 CFS
Open Space 12,834 x	0.20 = 2.567	W6. PERVIOUS COVER POST-DEVELOPMENT 100 YEAR STORM RUNOFF C	CALCULATION (V 100-per-post)	$V_{det} = (\Lambda / PF) * V_{100}$	Required Detention Volume, V _{det} : 4,608 CF
Subtotals 23.672	12,863		Rainfall Value (100 Year Storm Event), P: 5.11	WII. STANDARD METHOD RUNOFF VOLUME CALCULATIONS	
[™] C-values obtained from Washtenaw County Water Resources Commissioner HSGA	Composite C Value, C: 0.54	S = (1000 / CN) - 10	Function of Watershed Soil & Conditions, S: 15.64 IN	SUBSURFACE STORAGE / INFILTRATION BED VOLUME	
	Site Area, A: 0.54 AC	$Q_{100-per} = (P-0.2*S)^2/(P+0.8*S)$	Runoff, Q _{100-per} : 0.22 IN	Infiltration Bed Area 575 SF	
NRCS VARIABLES (REQUIRED FOR BANKFULL & 100-YEAR RUNOFF CALCULATIONS)			Pervious Cover Area: 12,834 SF	Subsurface Depth, D: 5.00 FT	Top Elevation 817.00 FT
Cover Type (Pre-Development) Soil Type Area (SF) Meadow A 23.672	Curve Number (CN) Weighted Value	V _{100-per-post} = Q * (1/12) * Area	Pervious Cover Post Development 100-Year Volume, V _{100-per-post} : 238 CF	Void Ratio 30%	Bottom Elevation 812.00 FT
Subtotals 23,672	710,160	WE IMPERVIOUS COVER DOST DEVEL ORMENT IN VEAR STORM BUNGS	F CALCULATION OF	Subsurface Storage Volume 863 CF	
3330043	Composite CN Value, CN: 30.00	W7. IMPERVIOUS COVER POST-DEVELOPMENT 100 YEAR STORM RUNOFI			
Pervious Cover Type (Post-Development) Soil Type Area (SF)			Rainfall Value (100 Year Storm Event), P: 5.11 IN	Flow Type $Area (ft^2)$ Storage Volume (ft^3) Design Infiltration Surface Soil Rate (in / hr)	Infiltration Volume During Total Volume Reduction Storm (ft ³) (ft ³)
Pervious Cover Type (Post-Development) Soil Type Area (SF) Fully Developed Open Space (Good Condition) A 12,834	Curve Number (CN) Weighted Value	S = (1000 / CN) - 10	Function of Watershed Soil & Conditions, S: 0.20 IN	Infiltration Basin 575 0 863 1.7 I. Infiltration Rate x 48 hrs x BMP Area x Unit Conversion = Infiltration Volume	8 4,094 4,957
Subtotals 12.834	500.526	$Q_{100-imp} = (P-0.2*S)^2/(P+0.8*S)$	Runoff, Q _{100-imp} : 4.87 IN		Total Volume Reduction: 4,957 CF
	Composite CN Value, CN: 39.00		Impervious Cover Area: 10,838 SF		Onsite Infiltration Requirement, V _{inf} : 1,456 CF
Impervious Cover Type (Post-Development) Soil Type Area (SF)	Curve Number (CN) Weighted Value	V _{100-imp-post} = Q * (1/12) * Area	Impervious Cover Post Development I 00-Yr Vol, V _{1004mppost} : 4,401 CF		Runoff Volume Credit 3,500 CF
Paved Parking Lots, Roofs, Driveways A 10,838	× 98.0 = 1,062,124	W8. TIME OF CONCENTRATION FOR APPLICABLE FLOW TYPES (T _{c-hrs})		W13. SUMMARY	
Subtotals 10,838	1,062,124	Flow Type K HEIGHT (H) LENGTH (L) SLOPE% (S * 100%) S 0.5 Sheet Flow 0.48 1.5 28 5.36 2.31	$V=K^*S^{0.5}$ $T_c = LI(V^*3,600) (hr)$	A. STORMWATER MANAGEMENT SUMMARY	
	Composite CN Value, CN: 98.00	Waterway 1.2 0.75 19 3.95 1.99 Waterway 1.2 1.75 47 3.72 1.93			
W2. FIRST FLUSH RUNOFF CALCULATION ($V_{\it ff}$)		Waterway 1.2 1.55 1.55 1.00 1.00	$T_{C} = 0.051$	Minimum Onsite Infiltration Requirement, V _{inf} 1,456 CF	
V _{ff} = (IN) * (FT / 2 IN) * (43,560 SF) * A * C	Site Area, A: 0.54 AC		If Tc < 15 minutes use minimum Tc Below	Provided Infiltration Volume: 4,957 CF	
	First Flush Runoff Volume, V _{ff} : 1,072 CF	W9. RUNOFF SUMMARY		% Minimum Required Infiltration Provided: 340%	
W3. PRE-DEVELOPMENT BANKFULL RUNOFF CALCULATION (V_{bf-pre})			,072 CF	Required Detention Volume, V det: 4.608 CF	
	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN		504 CF	Net Required Detention Volume, V_{det} : (349) CF V_{det} - Designed I Provided Infiltration Volume	
S = (1000 / CN) - 10	Function of Watershed Soil & Conditions, S: 23.33			B. DETENTION VOLUME INCREASE WITHOUT INFILTRATION	
$Q = (P-0.2*S)^2/(P+0.8*S)$	Runoff, Q: 0.26 IN		44_CF	% Required Infiltration NOT Provided: 0%	
*Site Area Excluding "Self Crediting" BMPs	*Total Site Area: 23,672 SF	Impervious Cover Post Development Bankfull Volume, V _{bf-imp-post} :	.916_CF	Net % Penalty (20% * % Required Infiltration NOT Provided): 0%	
$V_{bf-pro} = Q * (1/12) * Area$	Pre-Development Bankfull Volume, V _{bf-pre} ; 504 CF		Total Bankfull Volume (V _{bf-post}): 1,960 CF	Total Required Detention Volume, including penalty: (349) CF	
W4. PERVIOUS COVER POST-DEVELOPMENT BANKFULL RUNOFF CALCUL	ATION (V _{bf-per-post})		238_CF	[(100% + %Net Penalty) * Net Required Detention Volume]	
	Rainfall Value (2 Year / 24 Hour Storm Event), P: 2.35 IN	Impervious Cover Post Development 100-Year Storm Volume, V _{100-imp-post} : 4.	4.401_CF		
S = (1000 / CN) - 10	Function of Watershed Soil & Conditions, S: 15.64		Total 100 Year Volume (V ₁₀₀): 4,639 CF		
$Q = (P-0.2*S)^2/(P+0.8*S)$	Runoff, Q: 0.04 IN	ONSITE INFILTRATION REQUIREMENTS			
	Pervious Cover Area: 12,834 SF	$V_{bf-diff} = V_{bf-post} - V_{bf-pre}$	Bankfull Volume Difference, V _{bf-diff} : 1,456 CF	Soction VIIII A	nnondiv
$V_{bf\text{-per-post}} = Q * (1/12) * Area$	Pervious Cover Post Development Bankfull Volume, V _{Mperopent} : 44 CF	Onsite Infiltration Requirement: Use the graeter of Bankfull Volume Difference vs. First Flush Volume *Basin to include additional 20% volume if required infiltration is not provided	Onsite Infiltration Requirement, V _{Inf} : 1,456 CF Bankfull Volume Difference	Section VIII: A	Appendix
				Part L. ENGINEER'S CERTIFICATE OF OUTLET Date: 02/08/2022 Development Name: 5347 Plymouth Road	
				City, Village or Township of Superior	Section 18



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5347 PLYMOUTH ROAD PROPOSED VETERINARY CLINIC

PARCEL ID: 10-18-155-013

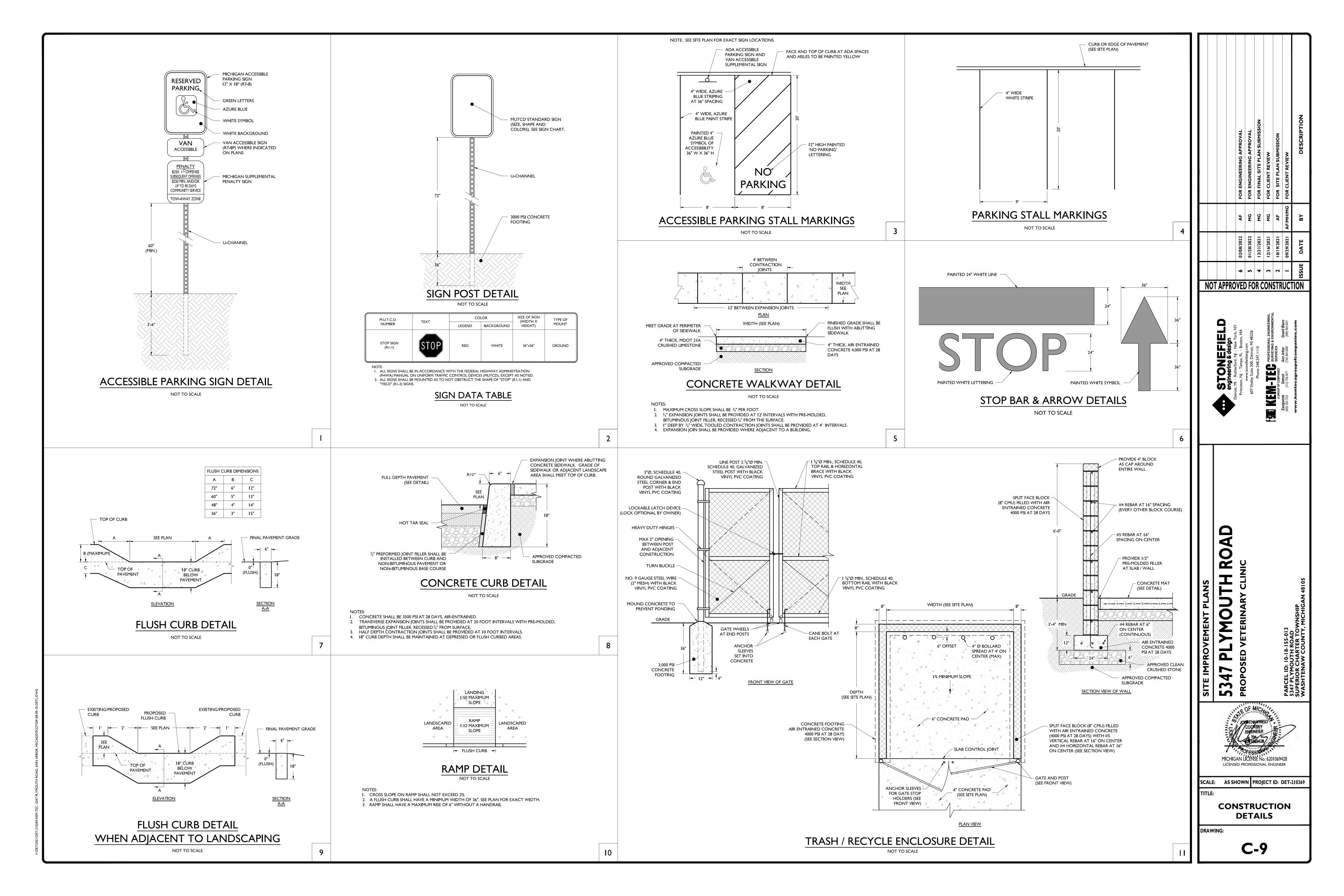


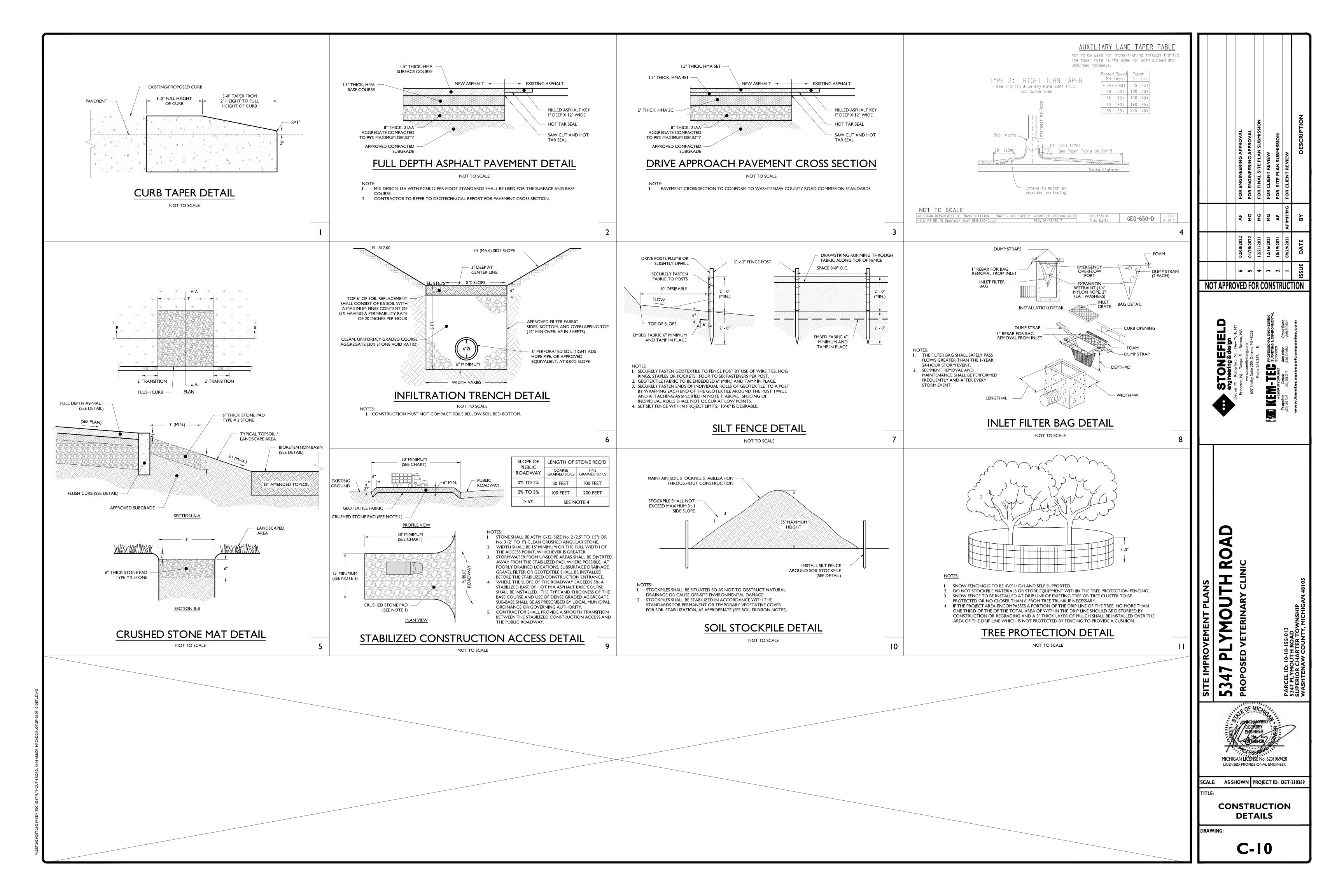
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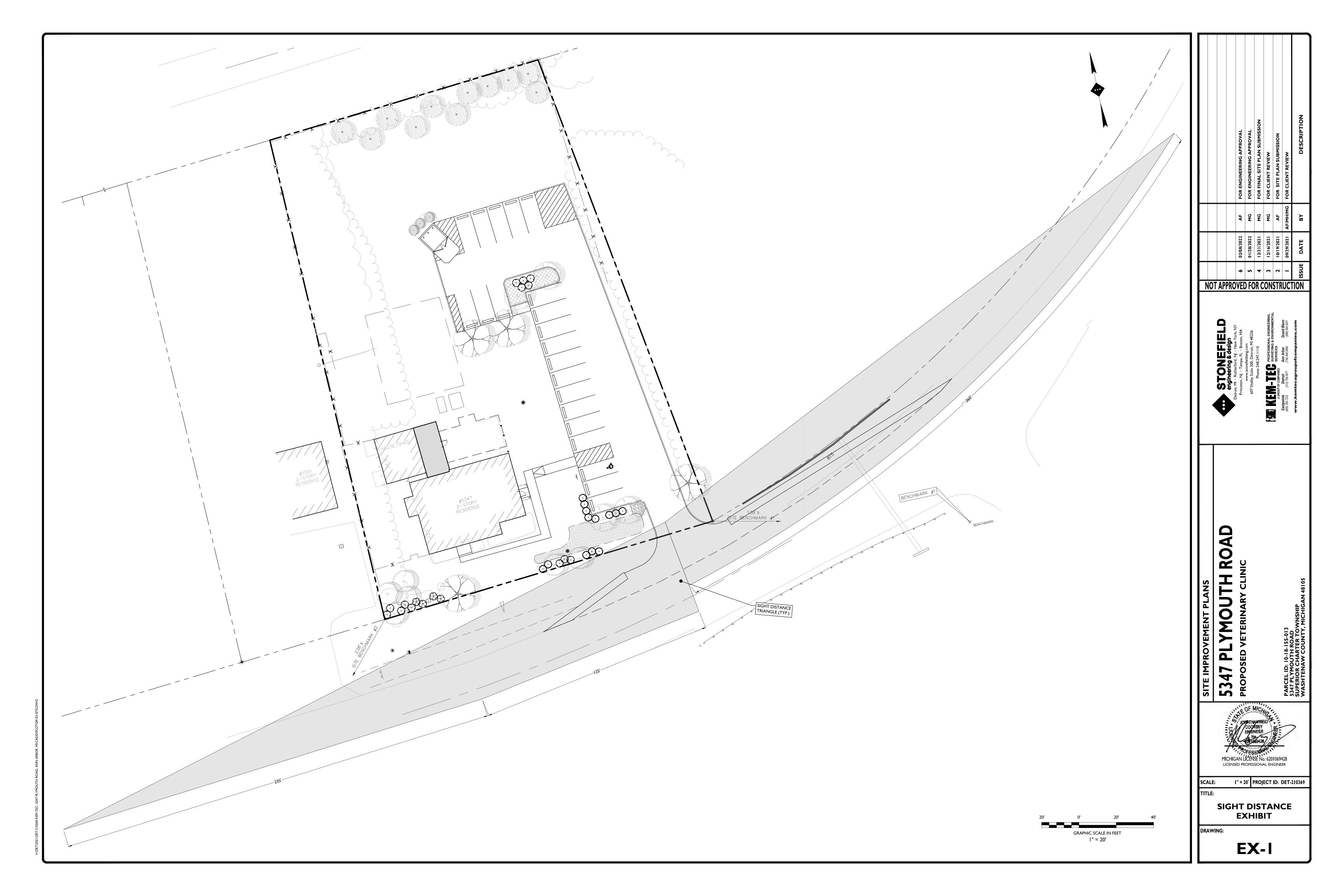
STORMWATER DESIGN
CALCULATIONS

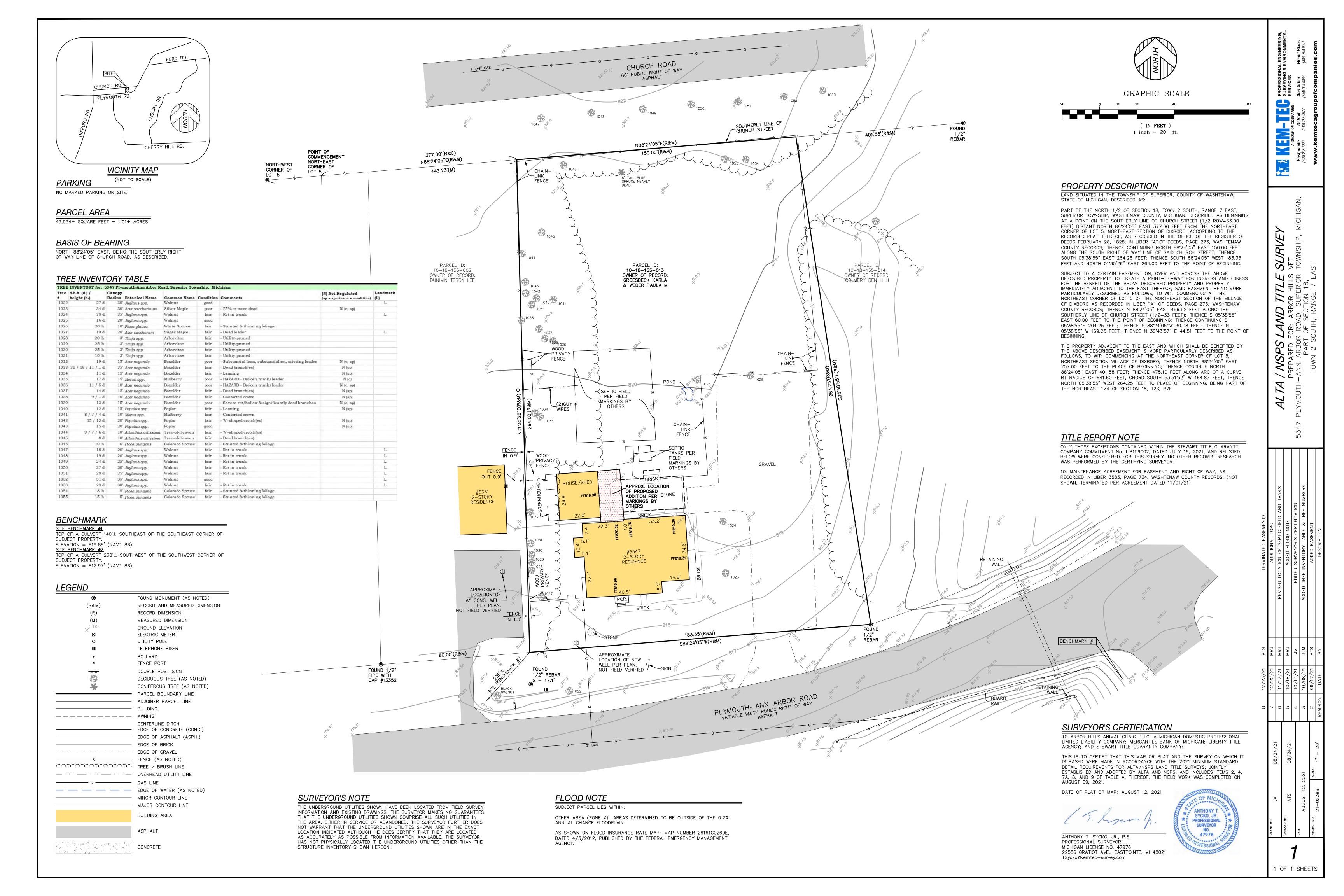
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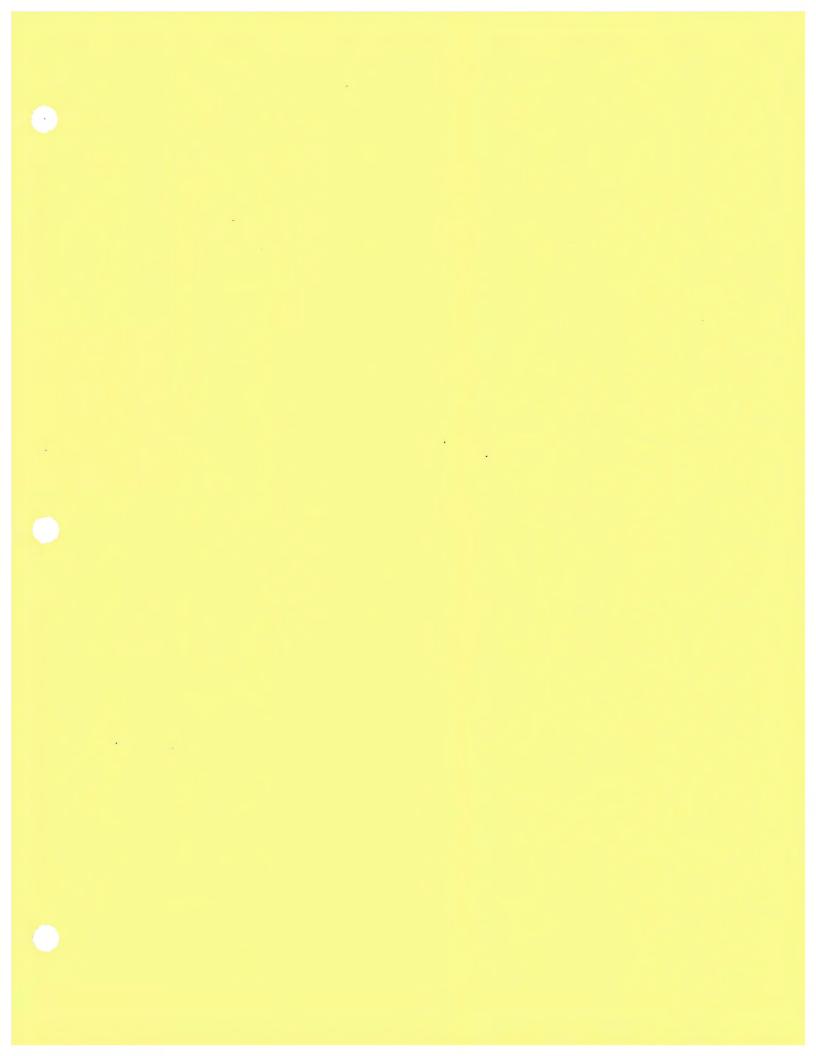
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PEA GROUP

844.813.2949 PEAGROUP.COM

November 18, 2021 PEA Project No: 2021-0587

Mr. Mark Wilson Practice Manager Arbor Hills Animal Clinic 5347 Plymouth Road Superior Charter Township, Washtenaw County, Michigan 48105

RE: Infiltration Testing

Arbor Hills Animal Clinic 5347 Plymouth Road

Superior Charter Township, Michigan

PEA Group is pleased to submit this summary of our field infiltration testing at the above referenced project site. We performed infiltration tests at three locations provided by Mark Wilson of Arbor Hills Animal Clinic. The locations were approved by the Washtenaw County Water Resources Commissioner's Office. The test locations can be found on the Test Location Diagram attached to this report.

At the test locations we encountered approximately 24 inches of clayey topsoil and debris, underlain by clayey sand. The clayey sand extended to depths ranging from 4 to 6.5 feet below the ground surface (bgs.) Underlying the clayey sand, silty sand with varying amounts of gravel was encountered to test pit termination depths of 8 to 14.5 feet. Test location TP-3 was excavated to 14.5 feet, the extent of the mini-excavator onsite, in search of the water table at the site. Ground water was not encountered within the upper 14.5 feet of TP-3.

Infiltration tests were performed within the silty sand soils 6 feet bgs at locations TP-1 and TP-2, and 6.5 feet bgs at TP-3. The tests were conducted at the locations shown on our location plan in granular soils. At the infiltration testing locations, we embedded a 6" inner diameter double ring infiltrometer apparatus approximately 2 inches into the granular soil per the Washtenaw County Stormwater Standards. We observed that the apparatus was embedded with a good seal around both the inner and outer rings so that the percolation was limited to the 6-inch plug of soil within the inner ring. Water was then added to the pipe to approximately 3 inches above the soil. The water level was then measured with a tape to the nearest 1/16" with reference to a fixed point marked on the inner ring. Using 1 minute test increments, we recorded the water level within the inner ring. This process was repeated until all the water had infiltrated into the soil. The results of each test were tabulated on data sheets. The average infiltration rate over the last test interval was used to calculate the reported infiltration rate at the test locations. At test locations TP-1 and TP-2 the infiltration rate was calculated to be 3.56 inches per hour (in./hr.). Using a safety factor of 2, we recommend an allowable infiltration rate of 1.78 (in./hr.). At test location TP-3 the infiltration rate was calculated to be 5.8 in./hr. Using our typical safety of 2, the infiltration rate at TP-3 would be 2.9 (in./hr.). However, we typically don't recommend infiltration rates greater than 2 in./hr. be used for design purposes. Thus, we recommend an allowable infiltration rate of 2 (in./hr.) at location TP-3.

If you have any questions regarding this report, or if we may be of further assistance to you in any respect, please feel free to contact us. We appreciate the opportunity to have been of service to you.

Sincerely.

PEA Group

Kevin Bennett

Geotechnical Staff Engineer

Attachments:

Log of Test Pits Location Plan

Infiltration Data Worksheets

D. Jack Sattelmeier, PE

Director of Geotechnical Engineering

PEA GROUP

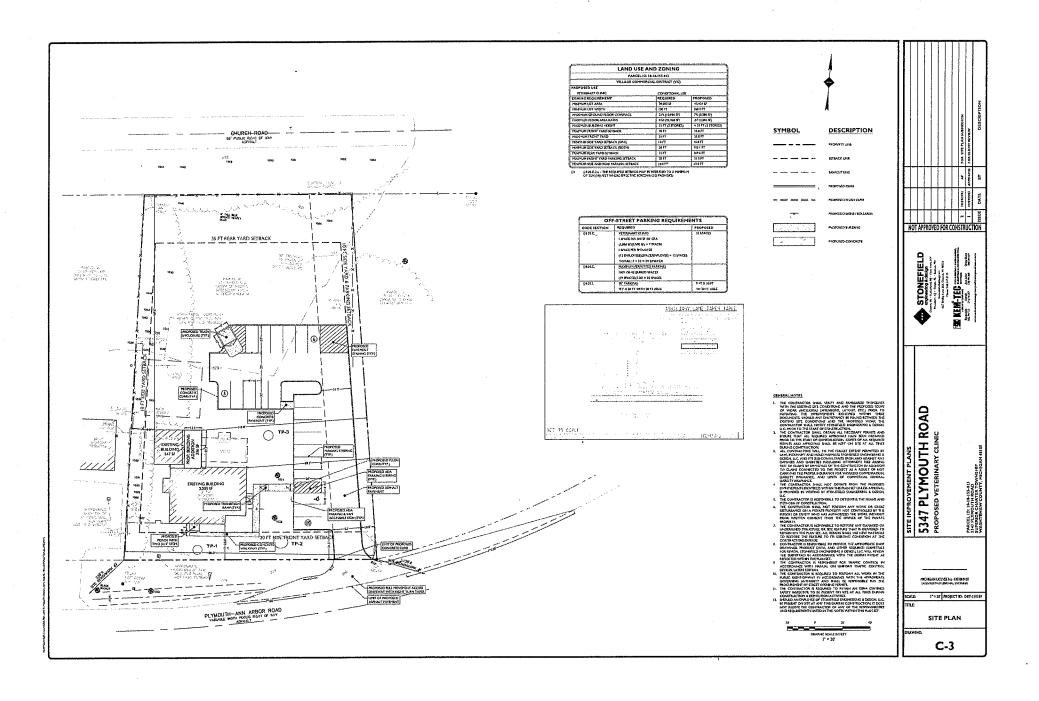
LOG OF TEST PIT

PEA GROUP JOB NO: 2021-0587

PEA GROUP PROJECT NAME: Arbor Hills Animal Clinic

TEST PIT #	ELEV. (Feet)	DEPTH (Feet)	DESCRIPTION	REMARKS
TP-1	819	0' – 2' 2' – 5' 5' – 8'	TOPSOIL: Black Clayey Sand, Trace Debris Brown CLAYEY SAND Brown SILTY SAND	Infiltration performed at 6'.
TP-2	818	0' - 2' 2' - 4' 4' - 9'	TOPSOIL: Black Clayey Sand Brown CLAYEY SAND Brown SILTY SAND, Trace to Little Gravel	Infiltration performed at 6'.
TP-3	821	0' - 2' 2' - 6.5' 6.5' - 14.5'	Brown/Gray GRAVEL, Some Sand Brown CLAYEY SAND Brown SILTY SAND	Infiltration performed at 6.5'.
		,	. ,	
			·	
,	۴			
NOTES: No g	groundwater	encountered above	e 14.5 Ft.	
BY:KB		DATE: 11/9/2021		FIGURE:1

Document3



Field Infiltration Testing

PEA Proj #: 2021-0587

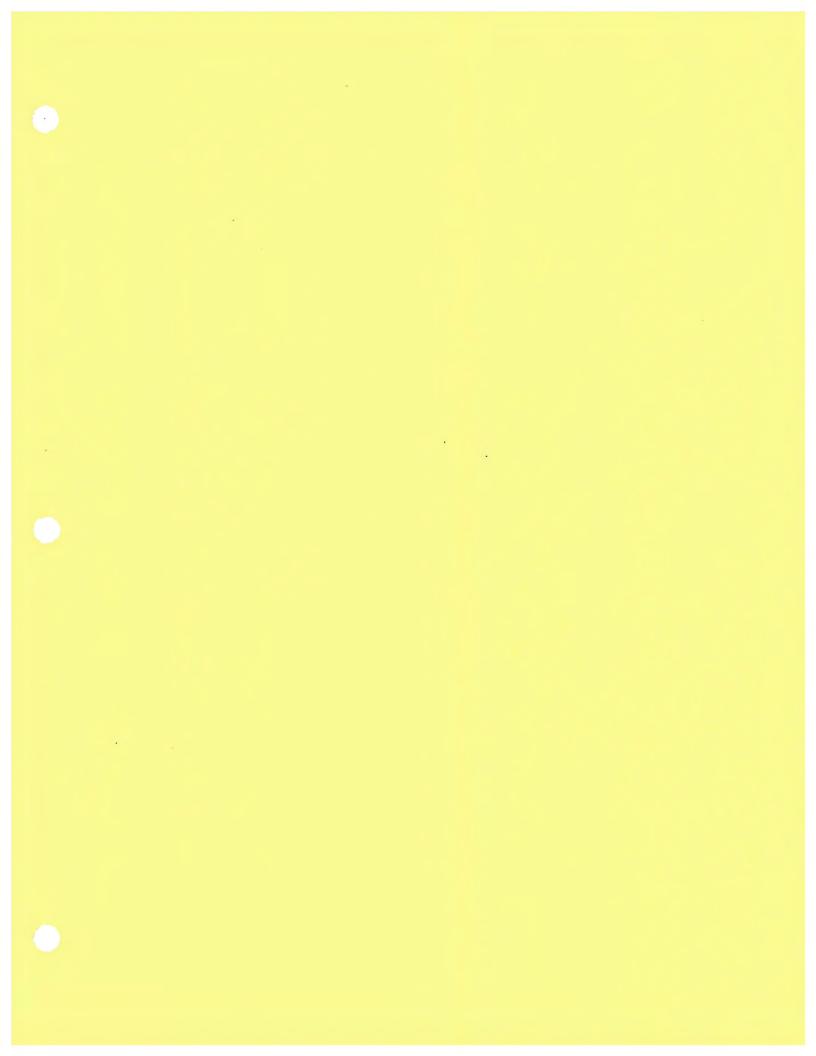
Proj Name: Arbor Hills Animal Clinic

Date: 11/9/2021

Diameter of 6 Casings (in):

	Test	Pit #1			Tes	t Pit #2		
Depth to test:	6'	-	Length of pipe above ground - 2	Depth to test:	6'		Length of pipe	
Test Elevation:	813'		above ground - 2 (in.)	Test Elevation:	812'		above ground - 2 (in.)	
Rf	1.05	k (in./hr)	3.56	Rf	1.05	k (in./hr.)	3.56	
Reading Time	Elapsed Time, min	Depth below Top of Casing, in	Percolation Rate, in/hr	Reading Time	Elapsed Time, min	Depth below Top of Casing, in	Percolation Rate, in/hr	
0	0	0.1875	NA	0	. 0	0.1875	NA	
1	1	0.3125	7.50	1	1	0.25	3.75	
2	1	0.4375	7.50	2	1	0.5	15.00	
3	1	0.5625	7.50	3	1	0.625	7.50	
4	1	0.625	3.75	4	1	0.75	7.50	
5	1	0.75	7.50	5	1	0.8125	3.75	
. 6	1	0.8125	3.75	6	1	0.875	3.75	
7	1	0.875	3.75	7	1	0.9375	3.75	
8	1	0.9375	3.75	8	1	1	3.75	
9	1	1	3.75	9	1	1.0625	3.75	
10	1	1.0625	3.75	10	1	1.125	3.75	
11	1	1.125	3.75	11	1	1.1875	3.75	
12	1	1.1875	3.75	12	1	1.25	3.75	
13	1	1.25	3.75	13	1	1.3125	3.75	
14	1	1.3125	3.75	14	1	1.375	3.75	
				15	1	1.4375	3.75	
	L	L	L	L		l		

	Test	Pit #3		
Depth to test:	6.5'		Length of pipe above ground	
Test Elevation:	815.5		(in.)	
Rf	1.29	k (in./hr.)	5.8	
Reading Time	Elapsed Time, min	Depth below Top of Casing, in	Infiltration Rate, in/hr	
0	0	0.9375	NA	
1	1	`1	3.75	
2	1	1.1875	11.25	
3	1	1.375	11.25	
4	1	1.5	7.50	
5	1	1.5625	3.75	
6	1	1.6875	7.50	
7	1	1.8125	7.50	
8	1	1.9375	7.50	
9	1	2.0625	7.50	
10	1	2.1875	7.50	
. 11	1	2.375	11.25	
12	1	2,5625	11.25	
13	1	2,6875	7.50	
14	1	2.8125	7.50	
15	1	2.9375	7.50	
16	1	3.0625	7.50	



CLIENT: ARBOR HILLS ANIMAL CLINIC

PROJECT: 5347 PLYMOUTH ROAD - PROPOSED VETERINARY CLINIC

DET-210369



RIGHT-OF-WAY WORK COST ESTIMATE

PROJECT: 5347 PLYMOUTH ROAD - PROPOSED VETERINARY CLINIC

ID	LINE ITEM	QUANTITY	UNIT	UNIT COST	ITEM COST
1.0	SITE WORK				
Ι	Aggregate Shoulder	705	ŞF	\$3.00	\$2,115.00
2	Asphalt Pavement	1,869	SF	\$5.00	\$9,345.00
			SUB'	TOTAL \$	11,460.00
			GRANI	TOTAL \$	11,460.00

NOTES:

1. This Cost Estimate has been prepared based upon the site development plans entitled "5347 PLYMOUTH ROAD - PROPOSED VETERINARY CLINIC", prepared by Stonefield Engineering And Design, LLC., dated 12/16/2021

This Cost Estimate has been prepared for Municipal Bonding Only. Contractor bids should be obtained for formal construction cost budgeting and financing.

- 3. This Cost Estimate is preliminary only and subject to modification upon consultation with the Project Team and/or relevant jurisdictional agencies.
- 4. This Cost Estimate does not include utility authority fees, construction stakeout, environmental soil and/or groundwater conditions, inspection fees, bonds, building construction, tenant signage, permit fees, as-built survey, insurance fees, union labor, or any unforeseen subsurface conditions. Costs for excluded items should be considered when preparing a comprehensive construction budget.
- 5. This Cost Estimate has been prepared without the benefit of a Topographic Survey or Geotechnical Report.

STONEFIELD

December 14, 2021

Gary Streight, PE Project Manager Washtenaw County Road Commission 555 North Zeeb Road Ann Arbor, Michigan 48103

RE: Left-Turn Lane Warrant Analysis

Proposed Veterinary Clinic 5347 Plymouth Road Parcel ID: 10-18-155-013

City of Ann Arbor, Washtenaw County, Michigan

SE&D Job No. DET-210369

Dear Mr. Streight:

Stonefield Engineering and Design, LLC ("Stonefield") has prepared this analysis to examine if a left-turn lane is warranted for the proposed development. The subject property is located along the northerly side of Plymouth Road in the City of Ann Arbor, Washtenaw County, Michigan. The existing site contains a 2,203-square-foot two (2)-story frame dwelling and a 546-square-foot building previously used as a small wedding and elopement venue. Existing access is provided via one (1) full-movement driveway along Plymouth Road. Under the proposed development program, the existing structure would be moderately expanded and retenanted as a veterinary clinic. Access is proposed to remain.

Trip generation projections for the proposed veterinary clinic were prepared utilizing the Institute of Transportation Engineers' (ITE) <u>Trip Generation Manual</u>, I Ith Edition. Trip generation rates associated with Land Use 640 "Animal Hospital/Veterinary Clinic" were cited for the 3,086-square-foot veterinary clinic. Table I provides the weekday morning and weekday evening peak hour trip generation volumes associated with the proposed development.

TABLE I - PROPOSED TRIP GENERATION

	Weekday Morning Peak Hour			Weekday Evening Peak Hour		
Land Use	Enter	Exit	Total	Enter	Exit	Total
3,086 SF Veterinary Clinic ITE Land Use 640	7	4		7	3	10

The trips generated by the proposed development were distributed according to the existing travel patterns along the adjacent roadway. A trip distribution of 50% eastbound trips and 50% westbound trips along Plymouth Road, was utilized.

The Michigan Department of Transportation (MDOT) provides guidelines for when left-turn lanes should be constructed. At any unsignalized intersection on a two-lane urban or rural highway which satisfies the direction hourly volume criteria between left-turning volumes and opposing volumes.

A curve representing the percentage of left turns in the advancing volume during the weekday morning and weekday evening, was calculated. Plymouth Road northbound has an advancing volume of 113 vehicles during

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STONEFIELD

Proposed Veterinary Clinic City of Ann Arbor, Washtenaw County, Michigan December 14, 2021 Page 2 of 2

the weekday morning peak hour and 539 vehicles during the weekday evening peak hour. The proposed development is expected to generate a total of four (4) left-turn ingress-movements during the weekday morning peak hour and a total of four (4) left-turn ingress-movements during the weekday evening peak hour. This equates to 3.5% and 0.7% of the advancing volume during the weekday morning and weekday evening peak hour, respectively. The figure indicates for Plymouth Road with a posted speed limit of 45 mph that a left-turn lane is not warranted during any of the weekday peak periods. The MDOT chart for the determination of left-turn lane warrants on a two (2) lane, 45 mph roadway is enclosed as part of this memorandum.

Please do not hesitate to contact our office if there are any questions.

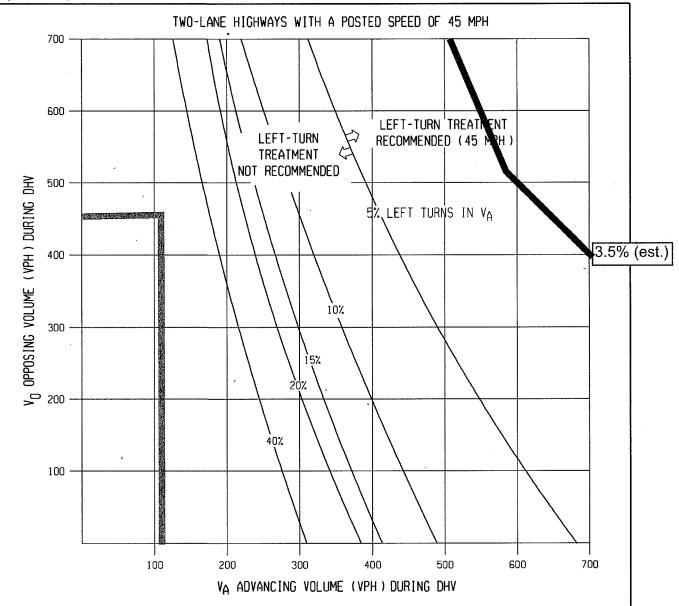
Best regards,

John R. Corak, PE

Stonefield Engineering and Design, LLC

via FedEx with Enclosures

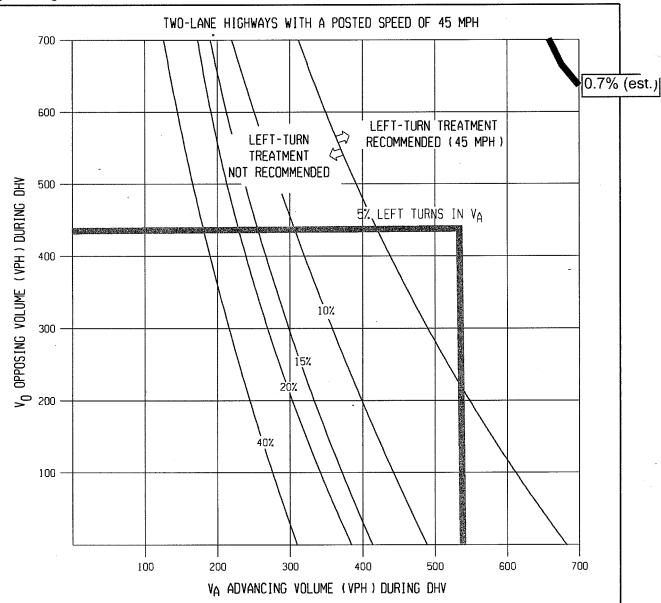
Z:\Michigan\DET\2021\DET\210369-Kem-Tec -5347 Plymouth Road, Ann Arbor, Mi\Calculations & Reports\Traffic\Reports\2021-12-14 Left-Turn Lane Warrant Analysis\2021-12-14 Left Turn Lane Warrant Analysis.docx



Instructions:

- 1. The family of curves represent the percentage of left turns in the advancing volume (V_A). The designer should locate the curve for the actual percentage of left turns. When this is not an even increment of 5, the designer should estimate where the curve lies.
- 2. Read ${
 m V}_{
 m A}$ and ${
 m V}_{
 m O}$ into the chart and locate the intersection of the two volumes.
- 3. Note the location of the point in #2 relative to the line in #1. If the point is to the right of the line, then a left-turn lane is recommended. If the point is to the left of the line, then a left-turn is not recommended based on traffic volumes.

NECHIGAN DEPORTMENT OF TRATEGORIAL TRAFFIC AND SAFETY NOTE	FOR LEFT	OLUME GUIDELINE -TURN LANES AT ED INTERSECTIO	
DRAWN BY: MTS CHECKED BY: JAT	08/05/2004 PLAN DATE:	605A	SHEET 4 OF 6
FILE: K:/DGN/ts notes/No		REV. 08/05/	



Instructions:

- 1. The family of curves represent the percentage of left turns in the advancing volume (V_A). The designer should locate the curve for the actual percentage of left turns. When this is not an even increment of 5, the designer should estimate where the curve lies.
- 2. Read V_{Δ} and V_{D} into the chart and locate the intersection of the two volumes.
- 3. Note the location of the point in #2 relative to the line in #1. If the point is to the right of the line, then a left-turn lane is recommended. If the point is to the left of the line, then a left-turn is not recommended based on traffic volumes.

Medigon Deportment of Fransportation TRAFFIC AND SAFETY NOTE	FOR LEF	OLUME GUIDELINES T-TURN LANES AT ZED INTERSECTION	
DRAWN BY: MTS	08/05/2004	6054	SHEET
CHECKED BY: JAT	PLAN DATE:	HCUd	4 OF 6
FILE: K:/DGN/ts notes/Note	FILE: K:/DGN/ts notes/Note605A tsn.dgn		

Location Info				
Location ID	0100710011_NB			
Туре	I-SECTION			
Functional Class	-			
Located On	Plymouth Rd			
NORTH OF	Ford Rd			
Direction	NB .			
Community	Superior Twp			
MPO_ID	855705629			
HPMS ID				
Agency	Washtenaw County Road Commission			

Interval: 15 mins					
Time	15 Min				Hourly Count
Time	1st	2nd	3rd	4th	Hourly Count
00:00 - 01:00	4	3	4	3	14
01:00 - 02:00	2	1	1	0	4
02:00 - 03:00	1	0	1	0	2
03:00 - 04:00	1	0	0	0	1
04:00 - 05:00	1	1	1	2	. 5
05:00 - 06:00	2	6	5	4	17
06:00 - 07:00	6	7	21	19	53
07:00 - 08:00	21	20	34	38	113
08:00 - 09:00	42	43	29	37	151
09:00 - 10:00	35	32	30	28	125
10:00 - 11:00	31	42	36	37	146
11:00 - 12:00	30	48	45	53	176
12:00 - 13:00	55	33	51	40	179
13:00 - 14:00	45	40	42	46	173
14:00 - 15:00 🔻	54	65	46	63	228
15:00 - 16:00	84	94	92	100	370
16:00 - 17:00	94	127	152	109	482
17:00 - 18:00	145	142	144	108	539
18:00 - 19:00	68	65	60	33	226
19:00 - 20:00	42	39	19	32	132
20:00 - 21:00	34	32	19	29	114
21:00 - 22:00	28	26	19	14	87
22:00 - 23:00	12	20	13	8	53
23:00 - 24:00	9	9	. 3	7	28
TOTAL					3418

Count Data Info				
Start Date	5/23/2019			
End Date	5/24/2019			
Start Time	1:00 PM			
End Time	1:00 PM			
Direction				
Notes				
Count Source	0100710011_NB			
File Name	0100710011_NB.txt			
Weather				
Study	-			
Owner	pcawley			
QC Status	Accepted			

Location Info				
Location ID	0100710011_SB			
Туре	I-SECTION			
Functional Class				
Located On	Plymouth Rd			
NORTH OF	Ford Rd			
Direction	SB			
Community	Superior Twp			
MPO_ID	855705630			
HPMS ID				
Agency	Washtenaw County Road Commission			

Interval: 15 mins					
Time		15 [Vlin	Harris Carret	
rime	1st	2nd	3rd	4th	Hourly Count
00:00 - 01:00	4	1	1	0	6
01:00 - 02:00	1	2	1	0	L
02:00 - 03:00	2	0	. 3	2	7
03:00 - 04:00	0	0	1	1	2
04:00 - 05:00	1	3	2	5	11
05:00 - 06:00	8	7	25	21	61
06:00 - 07:00	33	39	68	92	232
07:00 - 08:00	77	123	133	116	449
08:00 - 09:00	80	100	118	76	374
09:00 - 10:00	59	74	48	35	216
10:00 ~ 11:00	40	28	46	50	164
11:00 - 12:00	31	45	42	50	168
12:00 - 13:00	32	63	49	58	202
13:00 - 14:00	48	48	59	37	192
14:00 - 15:00	50	56	69	64	239
15:00 - 16:00	56	52	51	59	218
16:00 - 17:00	91	92	95	84	362
17:00 - 18:00	135	110	106	81	432
18:00 - 19:00	81	78	58	33	250
19:00 - 20:00	25	28	23	7	83
20:00 - 21:00	25	20	8	16	69
21:00 - 22:00	17	20	10	17	64
22:00 - 23:00	-12	14	18	6	50
23:00 - 24:00	6	3	4	6	19

TOTAL

Count	Data Info
Start Date	5/23/2019
End Date	5/24/2019
Start Time	1:00 PM
End Time	1:00 PM
Direction	
Notes	
Count Source	0100710011_SB
File Name	0100710011_SB.txt
Weather	-
Study	
Owner	pcawley
QC Status	Accepted



Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>

KE: WCRC App. 18005 - Arbor Hills Vet 21-02389

3 messages

Renata Garbarino < RGarbarino@kemtec-survey.com>

Fri, Dec 10, 2021 at 12:31 PM

To: Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>, Peter J Hill <pete@hda-architects.com>, Jim <iim@hda-architects.com>

Mark,

Our fee for left turn warrant analysis is \$1,200.00

Let us know if we should include within our scope when addressing all comments.

Thank you,

Renata Garbarino



22556 Gratiot Avenue

Eastpointe, MI 48021

Phone: (586) 772-2222

Fax: (586) 772-4048

From: Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>

Sent: Thursday, December 09, 2021 10:59 AM

To: Renata Garbarino <RGarbarino@kemtec-survey.com>; Peter J Hill <pet@hda-architects.com>; Jim

<jim@hda-architects.com>

Subject: Fwd: WCRC App. 18005 - Arbor Hills Vet

RE: RE: Kem-Tech Reference: 5347 Plymouth Rd., Superior Twp. 21-02389

Renata,

Attached are the comments from the road commission as well as a marked-up drawing. Please share these with Civil as they finalize their work on this project.

ark T. Wilson, Practice Manager, Arbor Hills Animal Clinic (he/him)

cc: Pete & Jim

----- Forwarded message -----

From: Streight, Gary <streightg@wcroads.org>

Date: Wed, Dec 8, 2021 at 10:03 AM

Subject: WCRC App. 18005 - Arbor Hills Vet

To: Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>

Cc: kenschwartz@superior-twp.org <kenschwartz@superior-twp.org>, Jones, Lisa <jonesl@wcroads.org>

Mark.

I have reviewed the submitted plan for the above project and offer the following comments for your use in addition to the attached plan markups:

- Provide a cost estimate for all work within the Plymouth Road right of way for approval.
- An Inspection fee equal to 3% of the approved cost estimate is required.
- A deposit equal to the full amount of the cost estimate must be provided in the form of a letter of credit or cashier's check.
- Provide the name, contact info and certificate of insurance for the contractor performing the work.

Once you have addressed the above comments and plan comments, please submit a set of plans to permits@wcroads.org for review. No work within the right of way shall occur until a permit has been issued. If you have any questions feel free to contact me.

Gary Streight, P.E.

Project Manager



Washtenaw County Road Commission

555 N. Zeeb Road, Ann Arbor, Michigan

Direct: (734) 327-6692 | Main: (734) 761-1500

wcroads.org | Follow us on Facebook

Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com> To: Renata Garbarino < RGarbarino@kemtec-survey.com>

Fri, Dec 10, 2021 at 12:51 PM

Please. Invoice me at your convenience. Thank you.

Jark T. Wilson, Practice Manager, Arbor Hills Animal Clinic (he/him)

[Quoted text hidden]

Renata Garbarino < RGarbarino@kemtec-survey.com> To: Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com> Fri, Dec 10, 2021 at 1:04 PM

Will do.

[Quoted text hidden]



Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>

wCRC App. 18005 - Arbor Hills Vet

4 messages

Streight, Gary <streightg@wcroads.org>

Wed, Dec 8, 2021 at 10:03 AM

To: Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>

Cc: "kenschwartz@superior-twp.org" <kenschwartz@superior-twp.org>, "Jones, Lisa" <jonesl@wcroads.org>

Mark,

I have reviewed the submitted plan for the above project and offer the following comments for your use in addition to the attached plan markups:

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Gary Streight, P.E.

Project Manager



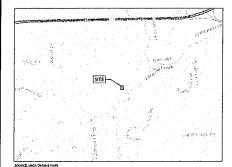
Washtenaw County Road Commission

555 N. Zeeb Road, Ann Arbor, Michigan

Direct: (734) 327-6692 | Main: (734) 761-1500

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Plan Markups.pdf 10411K



SITE IMPROVEMENT PLANS **FOR**

5347 PLYMOUTH ROAD PROPOSED VETERINARY CLINIC

PARCEL ID: 10-18-155-013 5347 PLYMOUTH ROAD SUPERIOR CHARTER TOWNSHIP, WASHTENAW COUNTY, MICHIGAN 48105

APPLICANT

MARK & KRISTIN WILSON DBA ARBOR HILLS ANIMAL CLINIC FLLC 2717 FLYHOLITH ROAD ANN ABBOR, MICHIGAN 48165 MARKTWILSON@ARBORHILLSYET.COM

5347 PLYMOUTH ROAD PROPOSED VETERINARY CLINIC

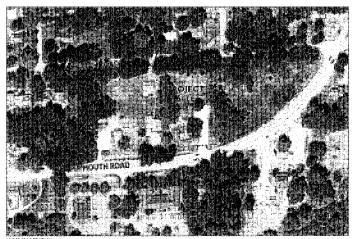


COVER SHEET

C-I

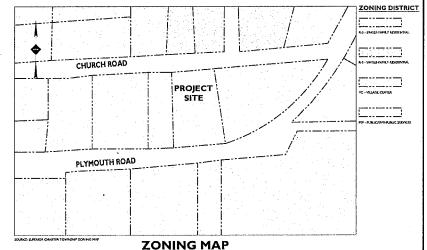
LOCATION MAP

SCALE: 1" = 2,000'±



AERIAL MAP SCALE: I" = 100'±

PLANS PREPARED BY:



SCALE: I" = 100'±





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

607 Shelby Suite 200, Detroit, MI 48226 Phone 248,247.1115

PLAN REFERENCE MATERIALS:

THIS FIAN SET REFERENCES THE FOLLOWING DOCUMENTS INCLUDING, BUT NOT LIMITED TO.

SHAPE THE SET REFERENCES THE FOLLOWING DOCUMENTS INCLUDING, BUT NOT LIMITED TO.

REPORT OF THE SET REPORT OF TH

ADDITIONAL SHE	ETS
DRAWING TITLE	SHEET #
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SHEET INDEX

C-2 CJ

C.S

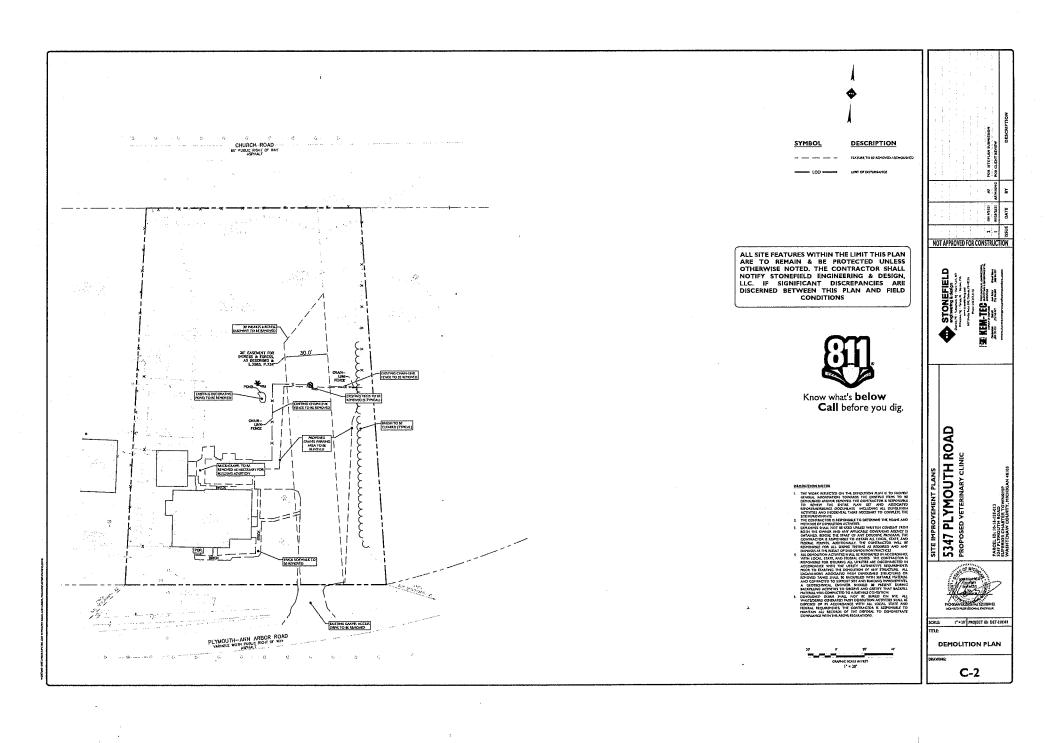
DRAWING TITLE COVER SHEET

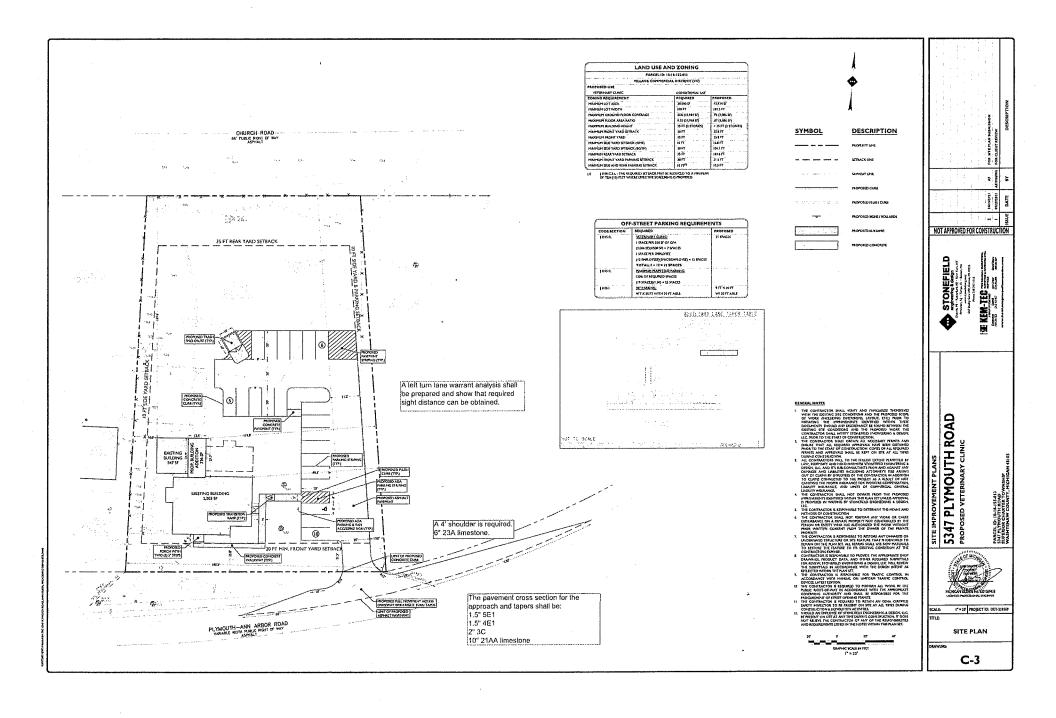
GRADING & ORAINAGE PLA

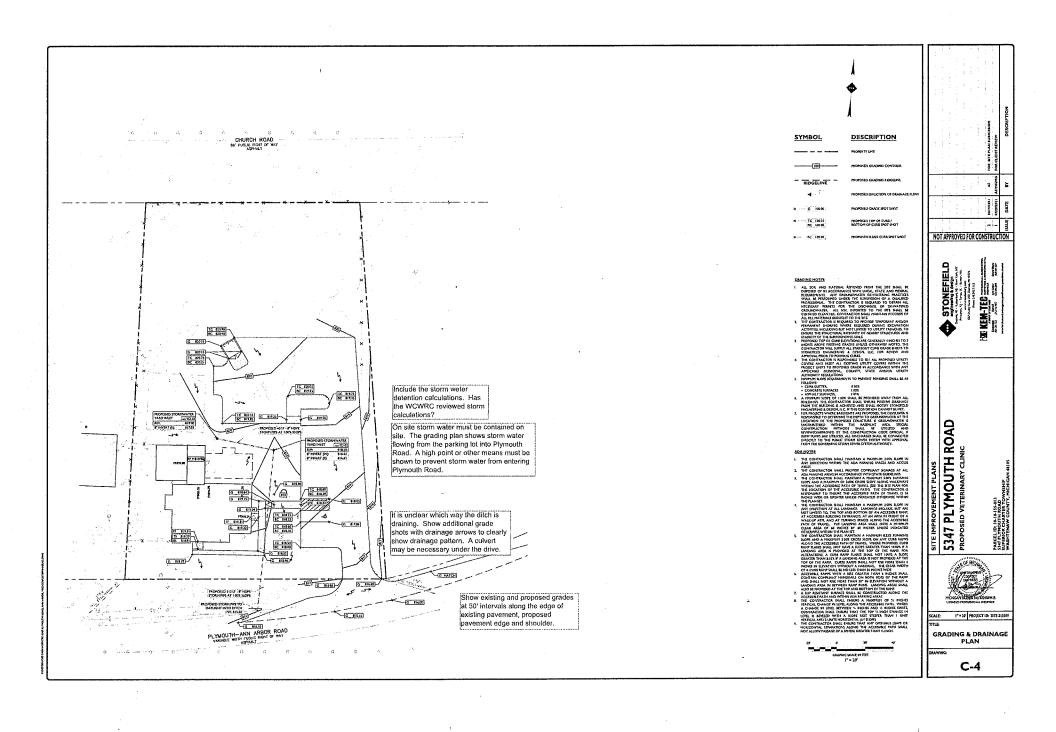
CONSTRUCTION DETAILS

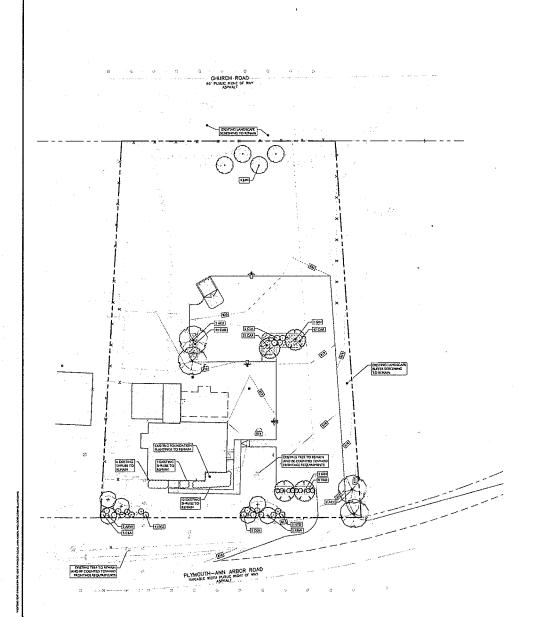
SITE PLAN

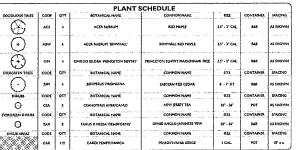
LIGHTING PLAN











LA	NDSCAPING AND BUFFER REQUIR	EMENTS
ODE SECTION	AEQUIRED	PROPOSEO
	LANDSCAPESTRO	
13201#	A CANDSCAPE STREET OF 20 FT ALDING ALL STREET MONTAGES AND EXTEND ACROSS THE ENTRE WASHIND OF THE LOT.	45.36 FT
3,703-7.7	THE LANDICASE STUP AND TRONT YARD SETBACK.	MONDED
	GADINARY BUILDA	
(4.0-0.1(4)	MINIMUM WIDTH 10 FT	45.1677
(LIDOIN)	I TREE AND 3 SHELRES PER 15 EF	
	TUPS.	1
	(IND FINE) TRUE (IS FT FRONTAGE) = IS TRUES	DTMP
	AMME	
	((E) FLY() SHOURS / () FT (HON (AGE) + 17 SHAURS	37 SHRURS
7,3014	ANY LANDSCAPE TEAP REQUISIO ALONG CHURCH TI WALL BE LANDSCAPED WITH PEANT HATERIAS AND ANGHRECHAEL ERPHINES TO SERVEN WITH OF PARCHICLOS AND SERVER AVENT MONTH CHARCHS AND MORRITOR FOR THE NORTH	MONDED
15044	PARKING LIER EMPIREMENTS ANY OFFICIAL FRANCISCO REAL PROVIDING S OR HOLE SEATER THAT HE AND SCATTO AND SCREENED FROM ALL LOT BOLKSCHAME AND ROAD INCIDENCE AND ROAD INCIDENCE AND ROAD INCIDENCE AND ROAD INCIDENCE AND ROAD	TROVIDED
104-54	NO HORE THAN 10 PARKING SPACES SHALL BE, PERMITTED BY A CONTINUOUS ROW WITHOUT BITTARUTTION BY A LANDSCAPED MAND ON SHELAR BEIDENT.	(O SPACES
	SCREENING METHODS	
(4)LCC D.1(e)	SPACING SETWIEN PROMOUAL PLANTS SHALL NOT EXCRED SET ON CENTER.	MONOCO
14.10-D.2(C)	LOW-HEIGHT SHRUMS IT TO 4 FT) PHALL BE USED TO MONDE SCREENING TO LOW-LEVEL PRACES	PROVIDED
	INTERIOR LANDSCAPE BLANDS	
14.19.E.1	LANDSCAPED ISLANDS SHALL SE PROVICED AT THE FACE OF PARENCE ROWL	PROVIDED
HIRESA	PLANTING BLANES SHALL HAVE A WHOTH OF 19 FT	MONORD
14.10428	2 OLCENIOUS SHADE OR ONNAHENTAL TAKES SHALL SE HIGHIODI FOR EXCH SLAND SHALES AND LINE CROINCOVER FLANTINGS SHALL NO USED TO COVER THE REMAINING AMEAS OF THE BLAND.	J LANDSCAME BLAND 6 TALES AND GROUNDGOVER MOPOSED
טנונג	TREE HITIGATION	
	16" WALNUT TO BE REPOYED	
	HET/GATION: 50% OF ORIGINAL DBIT	
	(18, CVT) + (872) # 8, CYTMEY INCHES STONASTO	E CAUPLE INCHES PROPOSED
71110	THE HITIGATION LANDMAN THIT	
	HTTGATION: 59% OF DAGRAM DIFF	
	OF CALL 10.00: - IF CALPUS NOWS MEGUND	IS CALIFE INCHES
	(in this year) - in the property of the	MOPOSED



Know what's **below Call** before you dig.

ANUSCAPING NOTES

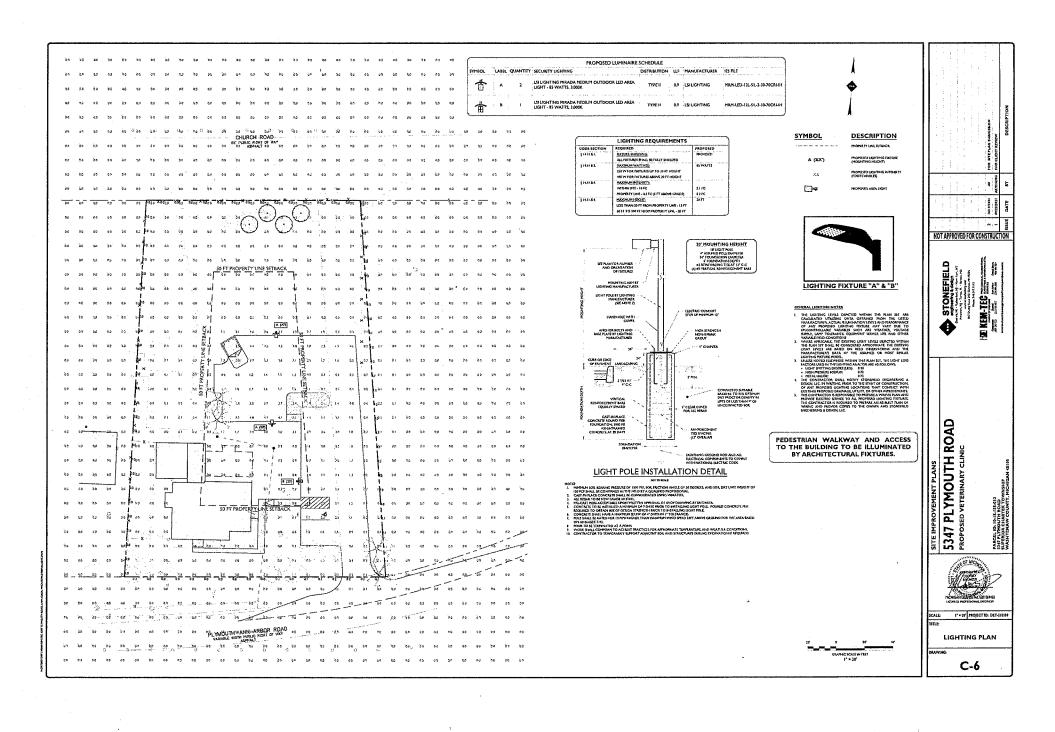


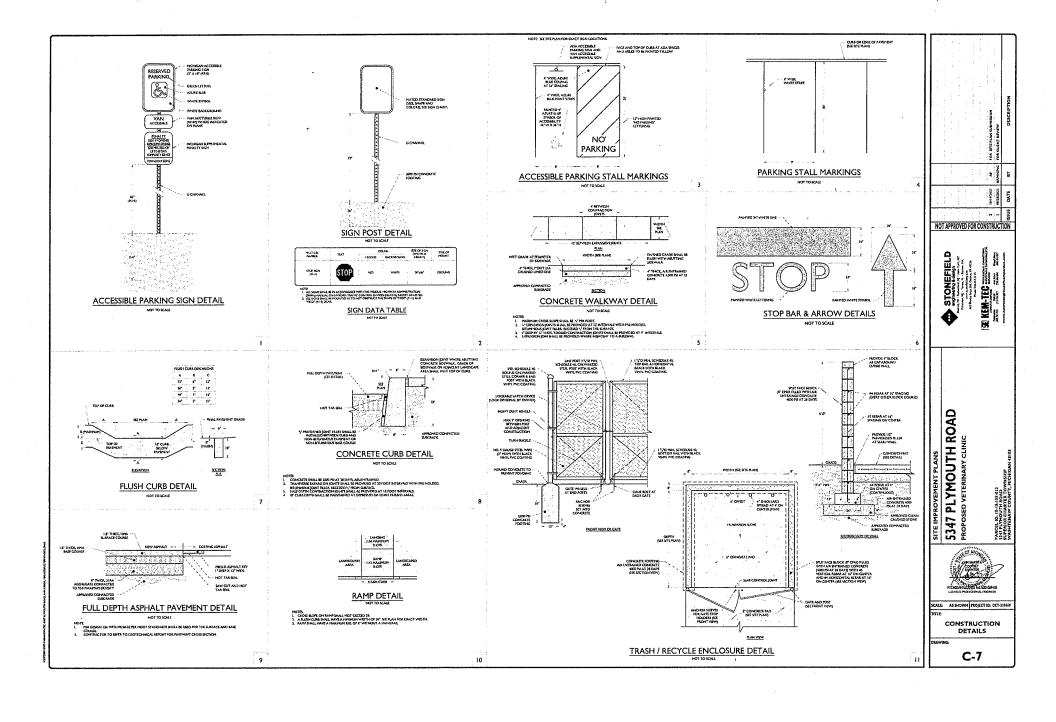
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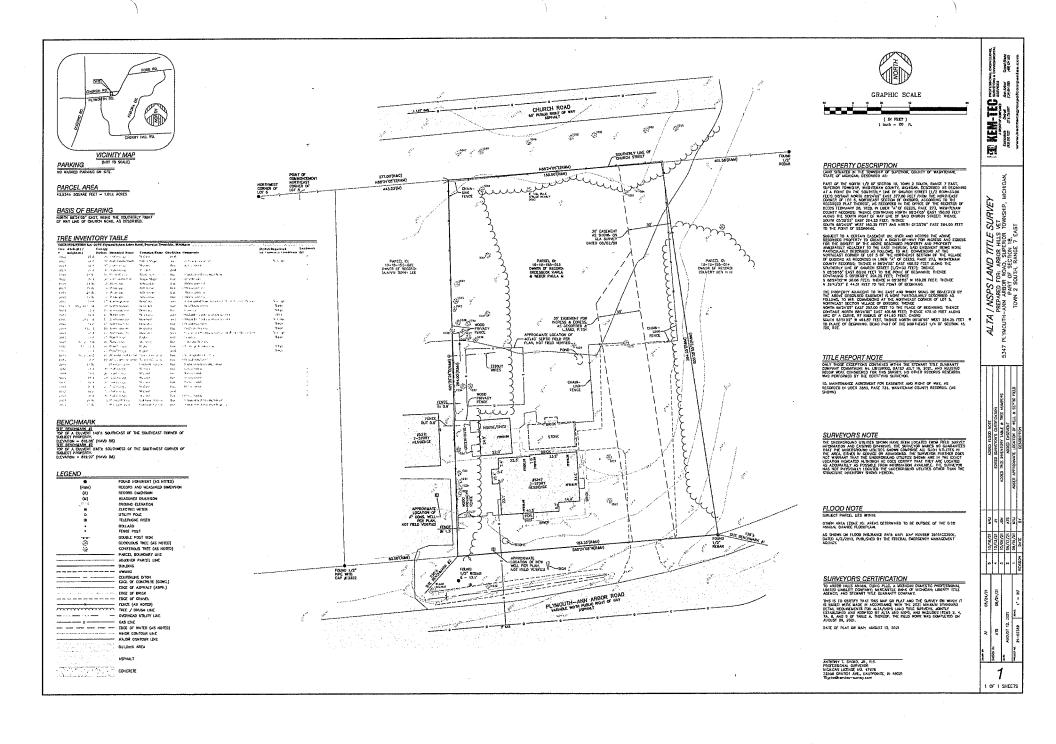
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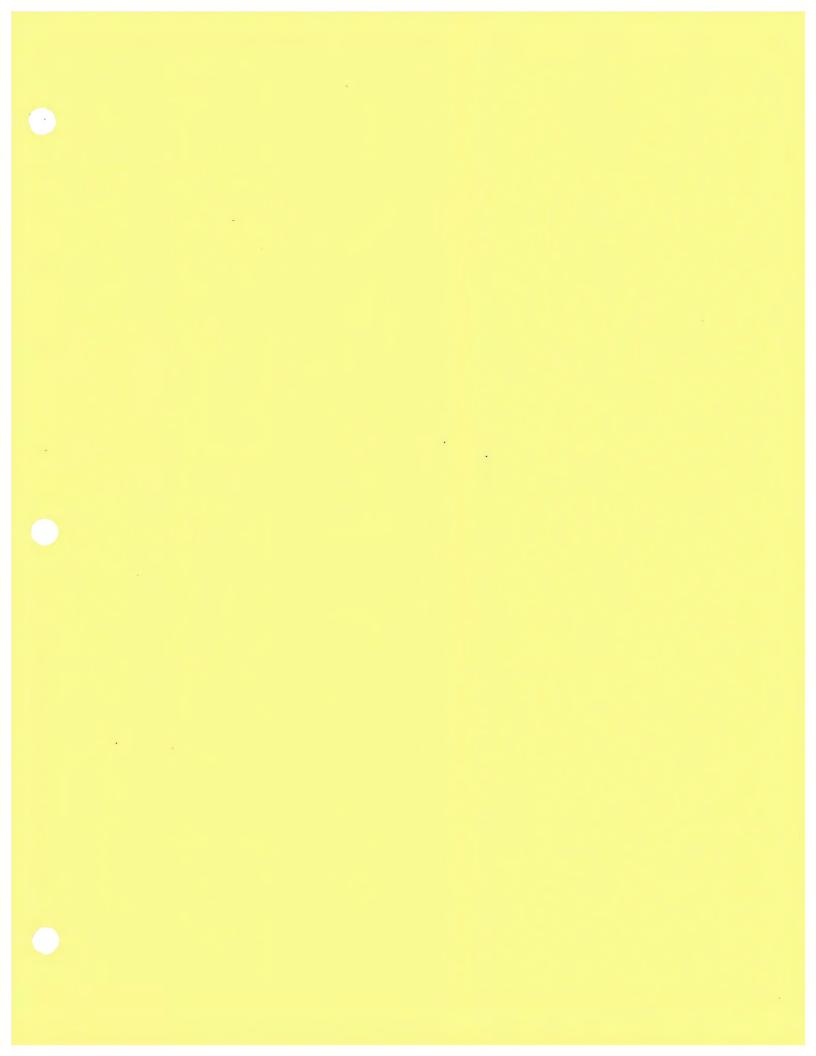
LANDSCAPING PLAN

C-5











Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>

5347 Plymouth

1 message

Brandi Moreland <brandi@boltonseptic.com> To: marktwilson@arborhillsvet.com

Thu, Dec 16, 2021 at 2:05 PM

To Whom it may concern,

Mark Wilson signed a contract with us to replace his septic tanks located at 5347 Plymouth Rd. in Ann Arbor, MI on 11/16/21. The permit for the work was issued by Washtenaw County on 11/23/21. Everything is in order to complete this work. We are only waiting on our schedule to open up in order to get this job completed.

Please feel free to contact me if you have any questions or concerns.

Regards.

Brandi Moreland

Bolton Septic dba Jack Spack Septic 7035 E. M36 Ste #B Whitmore Lake, MI 48189 248-852-0440 Boltonseptic.com

Thu, Dec 9, 12:40 PM (4 days ago)

Jonathon Pelukas

Hi Mark

There really is no other "approval" I can provide at this point. The proposed addition approval is predicated on moving the existing tanks. The existing drainfield was found to be properly functioning and sized appropriately.

Thanks

From: Jonathon Pelukas <pelukasj@washtenaw.org>

Date: Tue, Nov 16, 2021 at 1:36 PM

Subject: RE: One more question

To: Mark from Arbor Hills Animal Clinic <marktwilson@arborhillsvet.com>

Hi Mark

I have attached 2 drawings. One is with where I think the existing septic tanks are and the other is with where I suggest they should go. I also included my estimate of the location of the drainfield in relation to the existing structures. The plan is to 1" to 40' scale but I also wrote down my estimation of ~28' to the property line and ~12 to the chapel/proposed corridor.

I hope this helps...

Jonathan Pelukas, REHS, RS

Senior Sanitarian

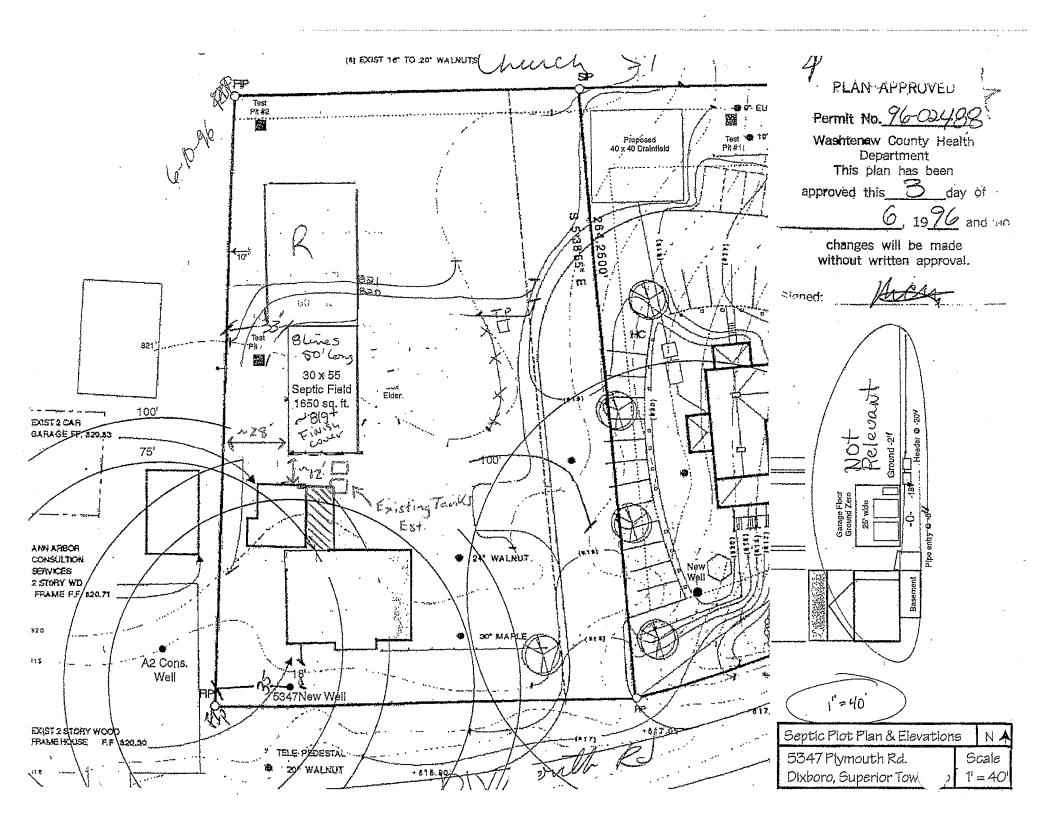
Washtenaw County Health Department

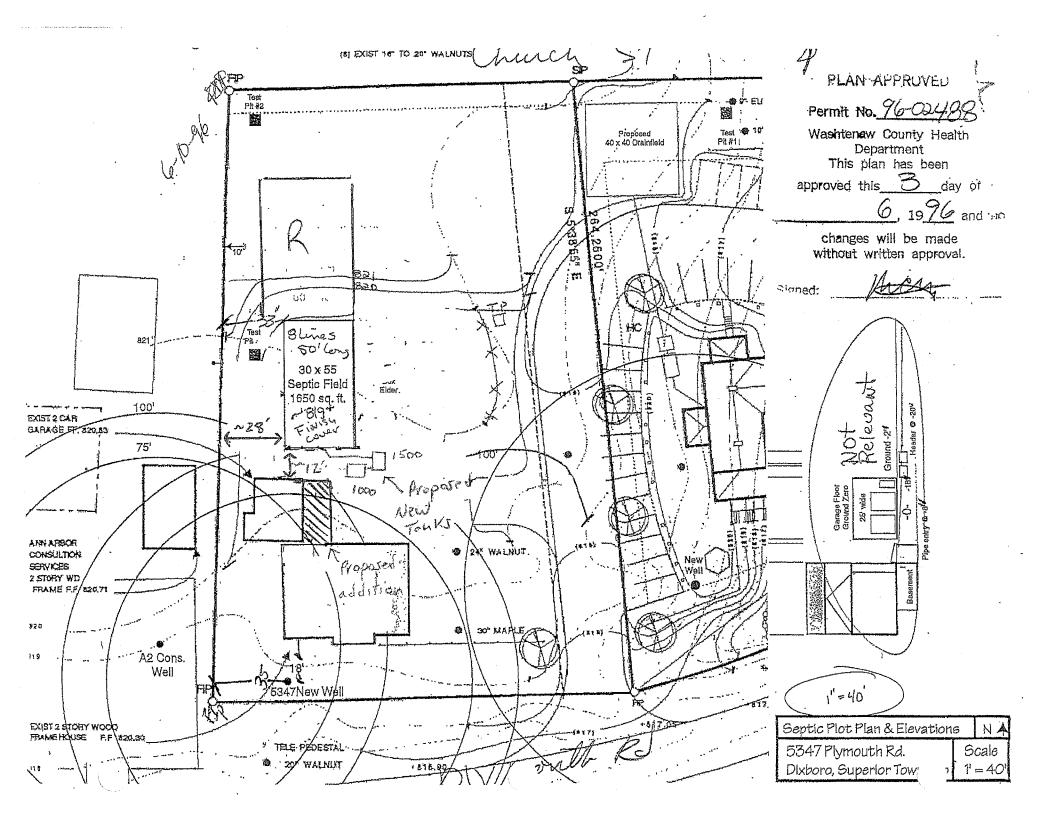
Environmental Health Division

P: 734-222-6861 • F: 734-222-3930

705 N Zeeb Road, Ann Arbor, MI 48107

Please note my email address has changed to pelukasj@washtenaw.org





Jack Spack Septic 7415 Carpenter Rd. Ypsilanti, MI 48197 734-434-3220

SEPTIC SYSTEM INSTALLATION CONTRACT

The undersigned, Mark Wilson, is/are the legal representative(s) for property located at 5347 Plymouth Rd., Ann Arbor, Washtenaw County, Michigan.

The authorized agent does hereby authorize Jack Spack Septic to install on-site an approved septic tank(s). Installation to have Washtenaw County Health Department Permit and involvement of all applicable inspections.

TOTAL PRICE: \$7,200.00

PAYMENT TERMS: 50% Payment is due day work begins. Balance is due within 24 hours of final inspection taking place. **3% added to all payments made via credit card.**

CONTRACT TERMS: This contract is for a specific performance, namely to supply the necessary materials and labor to install septic tank(s). Once all inspections and final health department approval is obtained, Jack Spack Septic is deemed to have completed its part of the contract.

SCOPE OF WORK: Obtain Septic Tank Only permit from Washtenaw County, install new septic system per Washtenaw permit #TBD. Provide final rough grade once work is approved by county. Refer to permit for specific septic system details/specs. Scope to include coordinating all county inspections.

IMPORTANT NOTICE: Reasonable caution will be exercised during construction. However, we are not responsible for any direct or indirect damage to trees, driveways, fences, roads, sidewalk, brick pavers, stamped concrete, underground dog fencing, private utilities, sprinkler lines/system or remediation expense arising from the disturbing of any onsite ground contamination. Settling is a common natural occurrence after excavation/backfilling. We caution against reinstalling sod/landscaping/etc. without giving appropriate time for settling

to take place. Settling can take up to a year (or more) depending on soil conditions.

LIMITED WARRANTY: We warranty our workmanship to be free from defect for 3 years from date of installation. Warranty is limited to the manufacturer's warranty on all electric/mechanical components (if applicable). Warranty is limited to actual replacement cost of any defective materials/workmanship. Bolton Septic LLC has the sole right to repair/replace defective materials and/or workmanship directly or contract a licensed third party to make necessary warranty repairs. Landscaping/sprinkler repair following warranty work is not included in warranty.

ADDITIONAL REMARKS / SPECIFICATIONS (if none, write none): Additional cost may be added if line from house to tanks need to be replaced (tbd).

Authorized Signature

X Brandi Moreland Date 11/12/21

Brandi Moreland, Representative

Jack Spack Septic

Authorized Signature

Mark T Wilson (Nov 16, 2021 08:02 EST)

Property Representative

Jack Spack Septic Contract

Final Audit Report

2021-11-16

Created:

2021-11-12

Ву:

brandi moreland (brandi@mmseptic.com)

Status:

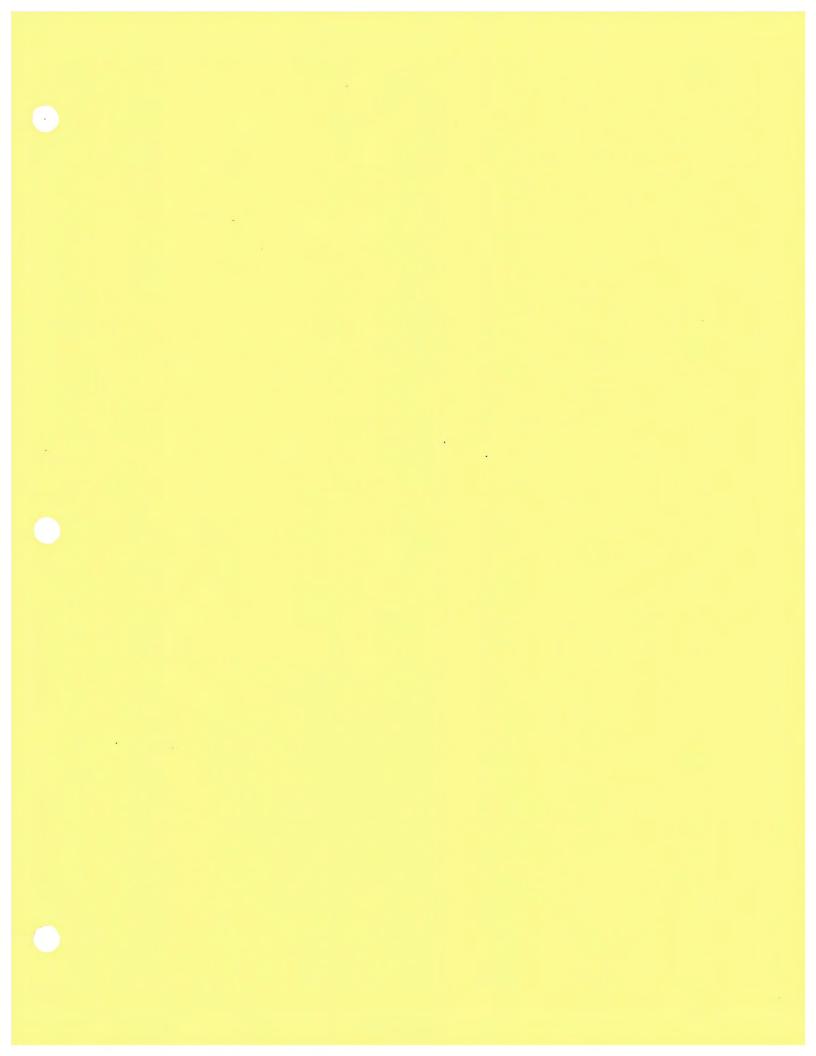
Signed

Transaction ID:

CBJCHBCAABAAl0RiDuKxxTZ8N3eWKPPRgHkyabO2lRfB

"Jack Spack Septic Contract" History

- Document created by brandi moreland (brandi@mmseptic.com) 2021-11-12 2:13:14 PM GMT
- Document emailed to Mark T Wilson (marktwilson@arborhillsvet.com) for signature 2021-11-15 3:39:04 PM GMT
- Email viewed by Mark T Wilson (marktwilson@arborhillsvet.com) 2021-11-16 1:00:51 PM GMT
- Ø Document e-signed by Mark T Wilson (marktwilson@arborhillsvet.com)
 Signature Date: 2021-11-16 1:02:51 PM GMT Time Source: server
- Agreement completed. 2021-11-16 1:02:51 PM GMT



Superior Township Fire Department Bureau of Fire Prevention 7999 Ford Road Ypsilanti, MI 48198

Site Plan Review Report

Date:

20 Oct. 2021

Business Name:

Arbor Hills Animal Clinic

Business Address:

5347 Plymouth Rd., Ann Arbor, MI 48105

Contractor:

Stonefield Engineering

607 Shelby, Suite 200, Detroit, MI 48226 Tel: 248-247-1115

Applicable Codes:

IFC 2015

Reviewed By:

Victor G. Chevrette, Fire Chief

Plans Dated:

9-29-2021

Job No:

DET-210369

Review Comments and Requirements

- 1. IFC 2015, chapter 5, section 506.1, Key box (KNOX) shall be installed.
- 2. IFC 2015, Interior Finish, all interior finishes shall apply according to code.
- 3. IFC 2015, chapter 9, section 906. If extinguishers shall be installed according to code.
- 4. IFC 2015, chapter 11 Existing Buildings, section 1104.3 and 1104.10 shall be complied according Code.
- 5. IFC 2015, chapter 10, section 1008, means of egress illumination shall apply according to code.

Status of Plans:

- () Approved as submitted pending field inspection and final testing
- (x) Approved conditionally see remarks
- () Denied see remarks

Remarks:

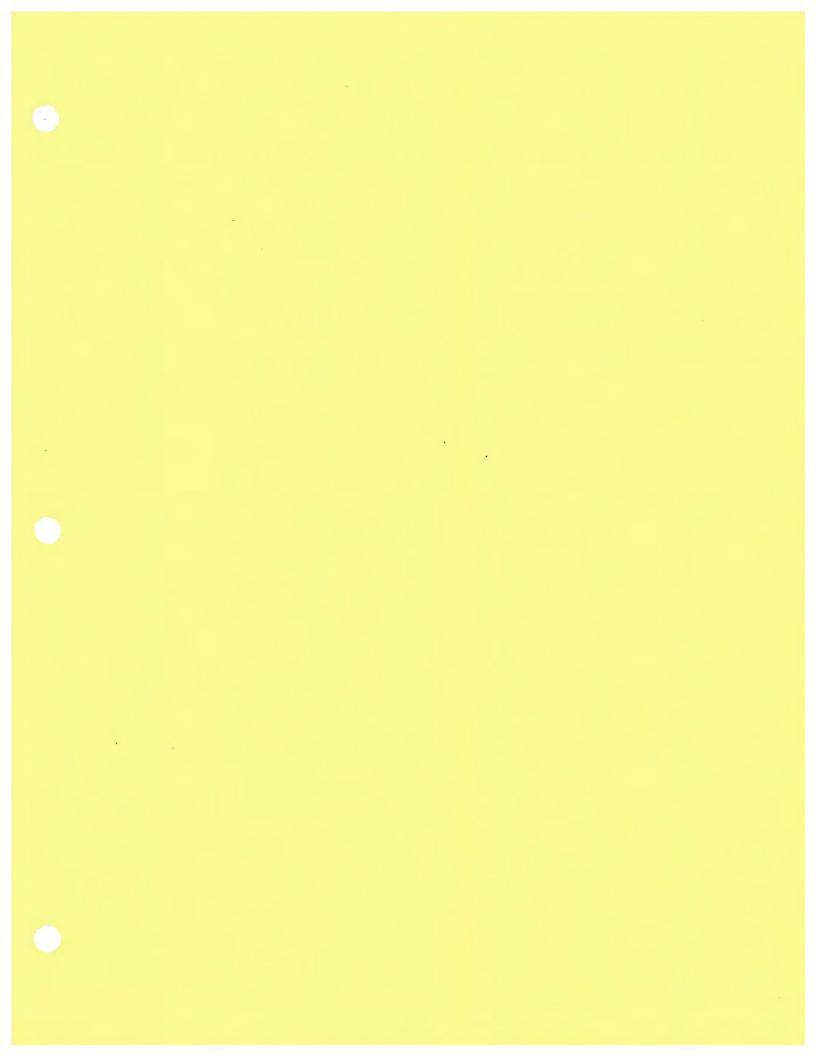
See review comments and also HVAC systems not shown on plans. Business Group B.

Pospectfully Submitted,

Victor G. Chevrette, Fire Chief

Superior Township Fire Department

In (1) set of these plans will be retained by the Fire Department, one (1) set forwarded to the mechanical inspector, three (3) sets are available for pickup with the permit.



Termination of "Maintenance Agreement for Easement and Right-of-Way"

Karla N. Groesbeck and Paula M. Weber, whose address is 5347 Plymouth Road, Ann Arbor, MI 48105 (Groesbeck/Weber); Ben H. Colmery, III, whose address is 5300 Plymouth Road, Ann Arbor, MI 48105 (Colmery); and Goode Investments, LLC, a Michigan limited liability company, whose address is 7887 Curtis Road, Northville, MI 48168 (Goode), make this Termination of "Maintenance Agreement for Easement and Right-of-Way", dated illot , 2021 (the Termination). Together, the above-referenced persons and entities are the Parties, or individually, a Party.

Recitals:

- A. In 1997, Groesbeck/Weber and the predecessor in interest to Colmery and Goode entered into a "Maintenance Agreement for Easement and Right-of-Way," recorded at Liber 3583, Page 734, Washtenaw County Records (WCR).
- B. The property owned by Groesbeck/Weber is described as Part 1 on the attached Exhibit A. The property owned by the predecessor in interest to Colmery and Goode is described as Part 2 on Exhibit A. The easement which is subject of the "Maintenance Agreement for Easement and Right-of-Way" is described as Part 3 on Exhibit A.
- C. In 2007, Goode sold to Colmery on land contract, as evidenced by the Affidavit of Land Contract recorded at Liber 4600, Page 246, WCR. The property sold to Colmery is described in the attached Exhibit B.
- D. Groesbeck/Weber have entered into a sales agreement to sell Part 1 to a third party, who desires to terminate the "Maintenance Agreement for Easement and Right-of-Way" given changed circumstances affecting the various properties, and the Parties are willing to do so.

Agreement:

Based on the Recitals, and other valuable consideration, the Parties agree as follows:

 The "Maintenance Agreement for Easement and Right-of-Way," recorded at Liber 3583, Page 734, WCR, is terminated and discharged, and no parties under the "Maintenance Agreement for Easement and Right-of-Way" have any further rights or obligations under it.

- 2. This Termination shall be recorded, and its terms shall be binding on the Parties and their successors and assigns. In the event that any of the terms of this Termination are held to be partially or wholly invalid or unenforceable, the other terms shall remain in effect. The laws of the State of Michigan apply to this Termination. This Termination may be signed in counterparts, which taken together shall constitute an original document.
- 3. This transaction is exempt pursuant to MCL 207.505(a) and MCL 207.526(a).

Favor Agreement Karla N. Groesbeck Date: 11/3/202/	Paula M. Weber Date: 11. 3.202) Goode Investments, LLC	
Ben H. Colmery, III		
Date: 11/1/202(
11 (11,2021	By:	
	Its: Authorized Member	
	Date:	
STATE OF MICHIGAN)	
)SS.	
COUNTY OF WASHTENAW	·)	
The foregoing instrument v	as acknowledged before me on November, 2021, i	n
	Karla N. Groesbeck and Paula M. Weber.	
3 , 5 , 3	-1- 00	
	Lane MI The	
v	DANA M LEMKE	_
	, Notary Public	
	Acting in Washtenaw County	
	Washtenaw County, State of Michigan My Commission expires: 06-30-2027	
	My Commission expires: へん・30~スヘック	

STATE OF MICHIGAN	
)SS.
COUNTY OF WASHTENAW)
The foregoing instrument	was acknowledged before me on Movember 1,
2021, in Washtenaw County, Mich	
S HUMPHREY NOTARY PUBLIC - MICHIGAN WAYNE COUNTY ACTING IN THE COUNTY OF Wash to the county of th	S. H. Morry Notary Public Acting in Washtenaw County Washtenaw County, State of Michigan My Commission expires: Tuly 18, 2027
STATE OF MICHIGAN)
BIZILI OF IMORIO, III)SS.
COUNTY OF WASHTENAW)
	was acknowledged before me on,
2021, in Washtenaw County, M	lichigan, by, the Authorized LC, on behalf of Goode Investments, LLC.
2021, in Washtenaw County, M	lichigan, by, the Authorized
2021, in Washtenaw County, M Member of Goode Investments, Ll Tax Parcel Nos. J 10 18 155 014 a Commonly known as 5347 Plymo	ichigan, by, the Authorized LC, on behalf of Goode Investments, LLC. , Notary Public Acting in Washtenaw County Washtenaw County, State of Michigan My Commission expires:
2021, in Washtenaw County, M Member of Goode Investments, Ll Tax Parcel Nos. J 10 18 155 014 a Commonly known as 5347 Plymo	ichigan, by

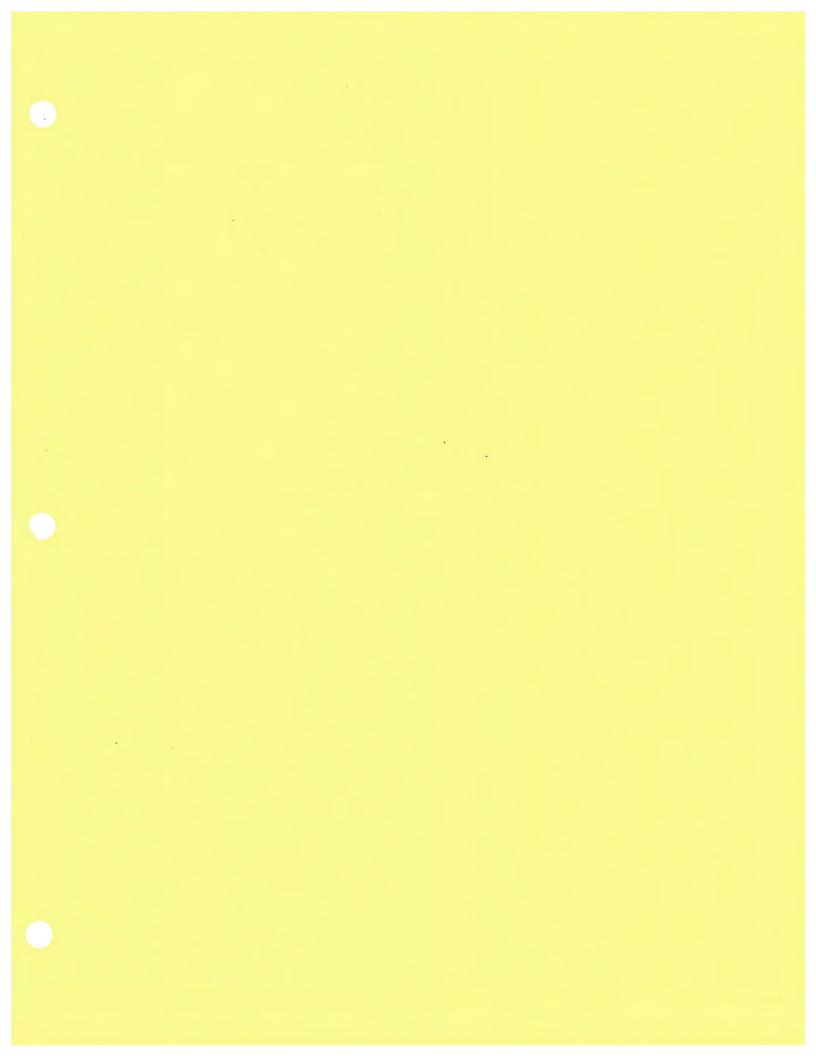
under the "Maintenance Agreement for Easement and Right-of-Way" have any further rights or obligations under it.

- 2. This Termination shall be recorded, and its terms shall be binding on the Parties and their successors and assigns. In the event that any of the terms of this Termination are held to be partially or wholly invalid or unenforceable, the other terms shall remain in effect. The laws of the State of Michigan apply to this Termination. This Termination may be signed in counterparts, which taken together shall constitute an original document.
- 3. This transaction is exempt pursuant to MCL 207.505(a) and MCL 207.526(a).

Karla N. Groesbeck	Paula M. Weber
Date:	Date:
Ben H. Colmery, III Date:	Goode Investments, LLC By: ALLAS L. Grooce Its: Authorized Member Date: 16/31/2021
STATE OF MICHIGAN))SS.
COUNTY OF WASHTENAW)
The foregoing instrument	was acknowledged before me on , 2021, in
Washtenaw County, Michigan, by	Karla N. Groesbeck and Paula M. Weber.
· · · · · · · · · · · · · · · · · · ·	, Notary Public
	Acting in Washtenaw County
	Washtenaw County, State of Michigan
	My Commission expires:

STATE OF MICHIGAN)
)SS.
COUNTY OF WASHTENAW)
	was acknowledged before me on,
2021, in Washtenaw County, Mich	
•	
	, Notary Public
	Acting in Washtenaw County
	Washtenaw County, State of Michigan
	My Commission expires:
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STATE OF MICHIGAN)
)SS.
COUNTY OF WASHTENAW	<u> </u>
The foregoing instrument	was acknowledged before me on 10 31/2021,
2021, in Washtenaw County, M	fichigan, by ALLON L. GOOG, the Authorized
Member of Goode Investments, Ll	LC, on behalf of Goode Investments, LLC.
•	Mare
	, Notary Public
	Acting in Washtenaw County Close Of Washtenaw County, State of Michigan
	My Commission expires:
	-
Tax Parcel Nos. J 10 18 155 014 a Commonly known as 5347 Plymo	
Prepared by and when recorded re	eturn to: Scott E. Munzel (P39818), 9 Jefferson Court,

Exhibit A- page containing legal descriptions Exhibit B- Colmery property



Easement

MK Wilson Holdings, LLC, whose address is 5347 Plymouth Road, Ann Arbor, MI 48105 (Wilson); Ben H. Colmery, III, whose address is 5300 Plymouth Road, Ann Arbor, MI 48105 (Colmery); and Goode Investments, LLC, a Michigan limited liability company, whose address is 7887 Curtis Road, Northville, MI 48168 (Goode), make this Easement, dated 11101, 2021 (the Easement). Together, the above-referenced persons and entities are the Parties, or individually, a Party.

Recitals:

- A. Wilson purchased the property described in the attached Exhibit A (the Property). Wilson desires to insure that they can use the driveway located on Plymouth Road to access the Property.
- B. Colmery and Goode are land contract purchaser and land contract seiler under a land contract for the property described in the attached Exhibit B (the Colmery Property).
- C. To insure access to the Property, the Washtenaw County Road Commission (WCRC) or Superior Township (the Township) may require that the purchaser be able to remove vegetation or foliage along Plymouth Road, either in the public right of way or extending on to the Colmery Property. Furthermore, the WCRC or Township may require the construction of a deceleration lane within the Plymouth Road right of way, that could encroach upon the Colmery Property.
- D. The Parties desire to enter into this Easement to allow for the potential removal of vegetation and potential construction of a deceleration lane, on the Colmery Property.

Agreement:

Based on the Recitals, and for \$10.00, the Parties agree as follows:

- 1. Colmery and Goode convey to Wilson, its assigns or successors in interest, a non-exclusive easement to enter upon the Colmery Property and to remove vegetation and foliage, if so required by the WCRC or the Township, or by the rules or regulations of either the WCRC or the Township. The area that Wilson may remove vegetation or foliage shall extend to only the minimum distance required by the WCRC, the Township, or their rules and regulations, so as to maintain a commercial driveway entrance from Plymouth Road to the Property, and any such removal shall be done with due care to remove the minimum amount of vegetation and foliage, in a manner that is designed to cause the least harm to the vegetation.
- 2. Colmery and Good convey to Wilson, its assigns or successors in interest, a non-exclusive easement to construct a deceleration lane upon the Colmery Property, if so required by the WCRC or the Township, or by the rules or regulations of either the WCRC or the Township, for access by a commercial driveway from Plymouth Road to the Property. The area that Wilson may use shall be the least possible area in order to comply with the requirements of the WCRC, the Township, or their rules and regulations, so as to maintain a commercial driveway entrance from Plymouth Road to the Property.
- 3. Any such activities to remove vegetation or foliage, or to construct and maintain a deceleration lane, shall be at the sole cost and expense of Wilson. Moreover, Wilson shall insure that no liens based on Wilson's work shall attach to the Colmery Property, and shall bond over any such liens within 15 days upon notice from Colmery or Goode of such a lien, or otherwise becoming aware of such a lien.
- 4. Wilson shall defend, indemnify, and hold the current or future owners of the Colmery Property (the Owners) harmless from any loss, expense, claim, or damage incurred by the Owners, arising out of the use of the Colmery Property by Wilson, its tenants, guests, contractors, agents, or delivery persons, except if caused by the Owners' negligence.
- 5. This Easement shall be recorded, shall run with the land, and its terms shall be binding on the Parties and their successors and assigns. In the event that any of the terms of this Easement are held to be partially or wholly invalid or unenforceable, the other terms shall remain in effect. The laws of the State of Michigan apply to this Easement. This Easement may be signed in counterparts, which taken together shall constitute an original document.

6. This transaction is exempt p	ursuant to MCL 207.505(a) and MCL 207.526(a).
MK, Wilson Holdings, LLC	Goode Investments, LLC
By: Mark T. Wilson	By:
Its: Authorized Member	Its: Authorized Member
Date: 11/3/2021	Date:
Ben H. Colmery, III	
Date: 11/1/2021	
STATE OF MICHIGAN)
)SS.
COUNTY OF WASHTENAW)
Washtenaw County, Michigan, by Holdings, LLC, on behalf of MK V DANA M. LEMKE Notary Public. State of Michigan County of Wayne My Commission Expires 06-30-2027 Acting in the County of Literal Market	was acknowledged before me on 11 3, 2021, in Mark T. Wilson, Authorized Member of MK Wilson Wilson Holdings, LLC. DANA M. Lowle, Notary Public Acting in Washtenaw County Washtenaw County, State of Michigan My Commission expires: 06-30-2027
STATE OF MICHIGAN))SS.
COUNTY OF WASHTENAW)
The foregoing instrument	was acknowledged before me on November 1.
2021, in Washtenaw County, Mich	nigan, by Ben H. Colmery, III.
	5. thy Grey
NOTATO FUBLIC - MICHIGAN	Acting in Washtenaw County
WAYNE COUNTY	Washtenaw County, State of Michigan
ACTING IN THE COUNTY OF LEGIT OF ANY CONTRIBUTION EXPIRES JULY 18, 2027	My Commission expires: 18,7027

	Goode Investments, LLC
By: Mark T. Wilson Its: Authorized Member Date:	By: ALCAS L. GOODE Its: Authorized Member Date:
Ben H. Colmery, III Date:	
STATE OF MICHIGAN))SS.
COUNTY OF WASHTENAW)
Holdings, LLC, on behalf of MK	
	Notary Public
	Acting in Washtenaw County
STATE OF MICHIGAN	Acting in Washtenaw County Washtenaw County, State of Michigan
COUNTY OF WASHTENAW	Acting in Washtenaw County Washtenaw County, State of Michigan My Commission expires:))SS.)
COUNTY OF WASHTENAW	Acting in Washtenaw County Washtenaw County, State of Michigan My Commission expires:))SS.) was acknowledged before me on
COUNTY OF WASHTENAW The foregoing instrument	Acting in Washtenaw County Washtenaw County, State of Michigan My Commission expires:))SS.) was acknowledged before me on

STATE OF MICHIGAN

)SS.

COUNTY OF WASHTENAW

) The foregoing instrument was acknowledged before me on 10 31 202, 2021, in Washienaw County, Machigan, by Account the Authorized Member of Goode Investments, LLC, on behalf of Goode Investments, LLC.

Notary Public

Acting in Washtenaw County Washtenaw County, State of Michigan

My Commission expires

JEROME P. MCWILLIAMS Notary Public - State of Florida Commission # HH 000429 My Comm. Expires Sep 11, 2024 Bonded through National Notary Assn

Tax Parcel Nos. J 10 18 155 014 and J 10 18 155 013. Commonly known as 5387 Plymouth Road (vacant land)

Prepared by and when recorded return to: Scott E. Munzel (P39818), 9 Jefferson Court, Ann Arbor, MI 48103 (734) 994 6610

Exhibit A

Premises situated in Superior Township, Washtenaw County, Michigan, described as:

Part of the North 1/2 of Section 18, Town 2 South, Range 7 East, Superior Township, Washtenaw County, Michigan, described as beginning at a point on the Southerly line of Church Street (1/2 ROW= 33.00 feet) distant North 88° 24' 05" East 337.00 feet from the Northeast corner of Lot 5, Northeast Section of Dixboro, according to the recorded plat thereof, as recorded in the Office of the Register of Deeds February 28, 1828, in Liber "A" of Deeds, Page 273, Washtenaw County Records; thence continuing North 88° 24' 05" East 150.00 feet along the South right of way line of said Church Street; thence South 05° 38' 55" East 264.25 feet; thence South 88° 24' 05" East 183.35 feet and North 01° 35' 26" East 264.00 feet to the point of beginning.

Exhibit B

Premises situated in Superior Township, Washtenaw County, Michigan, described as:

Part of the North 1/2 of Section 18, Town 2 South, Range 7 East, Superior Township, Washtenaw County, Michigan, described as: Beginning at a point on the Southerly line of Church Street (1/2 ROW= 33.00 feet) distant N 88° 24' 05" E 527.00 feet from the Northeast corner of Lot 5 of the Northeast Section of the Village of Dixboro, according to the recorded Plat thereof, as recorded in Liber A of Deeds, Page 273, Washtenaw County Records; thence continuing N 88° 24' 05" E 401.58 feet along said South right of way line of Church Street to a point on the Northerly right of way line of Plymouth Road (66 feet wide); thence 475.70 feet along the arc of a curve to the right, having a radius of 641.60 feet, a central angle of 42° 28' 48" and a long chord bearing S 53° 51' 32" W 464.87 feet; and thence N 05° 38' 55" 264.25 feet to the Point of Beginning.



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

Date:

October 15, 2021

January 13, 2022

Preliminary Site Plan and Conditional Use Review For Superior Township, Michigan

Applicant: Kristin and Mark Wilson

Project Name: Arbor Hills Animal Clinic

Location: 5347 Plymouth Road

Plan Date: December 21, 2021

Zoning: VC, Village Center District

Action Requested: Preliminary Site Plan and Conditional Use

PROJECT DESCRIPTION

The applicant has submitted a conditional use application for a proposed animal clinic at 5347 Plymouth Road. The applicant proposes to maintain and convert the existing structure to the animal clinic. The site is zoned VC, Village Center District. Animal Clinic is a Conditional Use in the VC District and subject to Section 5.110. The site is adjacent to the yoga practice center, and across Plymouth Road from the Boro Restaurant and the Landau Building. The building has been used as a single-family home, an in-home daycare facility, and a wedding venue.



According to the information provided by the applicant, Arbor Hills Animal Clinic has been in operation for more than 35 years. They serve both "companion" animals (cats and dogs), "small furry animals" (hamsters, gerbils, guinea pigs), and small farm animals (sheep, goats, and miniature horses). Hours of operation would be Monday through Friday from 9 a.m to 6 p.m, and Saturday from 8 a.m to 2 p.m. There is no boarding of overnight animals. The operation does not provide emergency hours.

PLANNING COMMISSION APPROVAL

The preliminary site plan was approved by the Planning Commission on following conditions:

1. Provide landscaping plan.

CWA comment: The applicant has provided a landscape plan that is compliant with ordinance requirements.

2. Provide additional landscape screening at the rear of the site.

CWA comment: The applicant has added additional landscaping at the rear of their site.

3. Provide lighting plan in compliance with Section 14.11.

CWA comment: The applicant has provided a photometric plan that is compliant with ordinance requirements. The applicant is proposing three (3) pole mounted lights.

4. Obtain outside agency approvals.

CWA comment: The applicant has obtained all outside agency approvals.

5. Address any outstanding comments from Township Engineer.

CWA comment: see Township Engineer memo.

Items to be Addressed: None

CONDITIONAL USE STANDARDS

Conditional use standards are set forth in Section 11.05.

No Conditional Use Permit shall be granted unless the Planning Commission makes affirmative findings of fact and records adequate data, information, and evidence showing that:

- a. The proposed use will be harmonious, and in accordance with the objectives, intent, and purposes of this Ordinance;
- b. The proposed use will be compatible with the natural environment and existing and future land uses in the vicinity;
- c. The proposed use will be compatible with the Growth Management Plan;
- d. The proposed use will be served adequately by essential public facilities and services, such as highways, streets, police and fire protection, drainage ways and structures, refuse disposal, or that the persons or agencies responsible for the establishment of the proposed use shall be able to provide adequately for any such services;
- e. The proposed use will not be detrimental, hazardous, or disturbing to existing or future neighboring uses, persons, property, or the public welfare;
- f. The proposed use will not create additional requirements at public cost for public facilities and services that will be detrimental to the economic welfare of the community.

We find that the required standards have been met:

- 1. The applicant is repurposing an existing building for a use recognized in the Master Plan.
- 2. The repurposing of the existing building is consistent with the growth management plan.
- 3. The Village Center subarea notes a goal to gradually convert to a mixed-use area. Existing residential structures should be retained but may be converted to the non-residential uses. Though animal clinic is not a listed use, it could be considered consistent with the listed use of a small professional office.
- 4. Provided the applicant meet the noted conditions of increased landscaping and providing a lighting plan in compliance with ordinance requirements, the use shall have no impact upon adjacent properties.
- 5. The use will not create additional requirements at public cost for public facilities and services that will be detrimental to the economic welfare of the community.
- 6. The conditional use process permits the Township to put reasonable conditions upon the application including no outdoor dog run, no overnight boarding of animals, no onsite cremation, and no farm animals, that ensures protection to adjacent properties.

Arbor Hills Animal Clinic January 13, 2022

We've attached a resolution of approval for the Conditional Use, codifying the conditions of approval

RECOMMENDATION

We recommend approval of the final site plan approval and the Conditional Use resolution.

I look forward to meeting with the Planning Commission to discuss my memo.

Sincerely,

CARLISLE/WORTMAN ASSOC., INC.

Benjamin R. Carlisle, AICP, LEED AP

Principal

cc: Ken Schwartz, Township Supervisor

Lynette Findley, Township Clerk

Richard Mayernik, CBO, Building Department

Laura Bennett, Planning Coordinator

George Tsakoff, Township engineer



February 16, 2022

CHARTER TOWNSHIP OF SUPERIOR

3040 N. Prospect Road Ypsilanti, MI 48198

Attention: Lynette Findley, Township Clerk

Regarding: Arbor Hills Animal Clinic

Final Site Plan - Review No. 2 OHM Job No. 0140-21-0100

Dear Ms. Findley,

On behalf of the Township, we have reviewed the revised Final Site Plan submittal for the above referenced project dated February 8, 2022. In our opinion, this plan is ready for further consideration by the Planning Commission at their February meeting regarding final site plan approval. We do offer the following comments related to engineering aspects of the submittal that would still need to be addressed by the Applicant during the engineering plan review stage. Our comments are as follows:

Grading, Stormwater Management and Utilities

- 1. On Sheet C-3, *Site Plan*, the leader line from the note at the northeast corner of the parking lot ("LIMIT OF CONCRETE CURB") should point further west to the end of the curb at the end of the striped area of the parking lot. Also, the "LIMIT ASHPALT PAVEMENT" note on the east side of the parking lot should be deleted as this side of the parking lot will have concrete curb and gutter. This should be addressed on the future engineering plan submittal.
- 2. The background notation of "Proposed Future Septic Tank Location" is directed at the existing septic field location and should point to the septic tanks currently noted as "Septic Tanks Per Field Markings By Others" or the notes combined (e.g., Proposed Future Septic Tank Locations Per Field Markings By Others"). This should be addressed on the future engineering plan submittal.
- 3. Review of the stormwater management facilities and calculations by the Washtenaw County Water Resources Commissioner's Office (WCWRC) is still ongoing. Recent comments were issued by WCWRC that the Applicant's Engineer will need to resolve during the engineering plan submittal. This is assuming that the Planning Commission agrees to have the WCWRC comments resolved administratively after final site plan approval. We can provide more detail on these comments at the February PC Meeting.

Status of Permits Required

- 4. Permit from the Washtenaw County Health Department (WCHD) for modifications to the on-site septic system has been issued.
- 5. Permit from the Washtenaw County Road Commission (WCRC) is required for the paving of the access drive within the public Right-of-way of Plymouth Rd.
- 6. Permit from the WCWRC for soil erosion and sedimentation control (SESC) measures is required.
- 7. Permit from Township Building Department is required.

Arbor Hills Animal Clinic Final Site Plan February 16, 2022 Page 2 of 2



If you have any questions regarding our review, please do not hesitate to contact me at (734) 466-4439, or Cresson Slotten at (734) 466-4585.

Sincerely, **OHM Advisors**

George Tsakoff, PE Principal

cc: Ken Schwartz, Township Supervisor (via e-mail)

Richard Mayernik, CBO, Building Department (via e-mail)

Laura Bennett, Planning Coordinator (via e-mail) Ben Carlisle, CWA, Twp Planner (via email)

Cresson Slotten, OHM

file

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Arbor Hills Animal Clinic 2717 Plymouth Road Ann Arbor MI 48105 (734) 668-1466

1/28/2022

Superior Township Planning Department Attn: Laura 3040 North Prospect Superior Township, MI 48198

Dear Planning Department Representatives:

This letter is to indicate our intent to modify the curb design during the engineering review stage. We have notified our contractor, Ann Arbor Asphalt that we are required to have a curb on the West side of the parking lot adjacent to the area where the septic field is located on the property. Our contractor has modified the scope of this project to include the curb within this area.

Please let me know if you need any additional information prior to the February meeting at which we will be seeking Site Plan Approval.

Sincerely,

Mark T. Wilson Arbor Hills Animal Clinic





WATER RESOURCES COMMISSIONER
705 North Zeeb Road
P.O. Box 8645
Ann Arbor, MI 48107-8645

email: <u>drains@washtenaw.org</u> https://www.washtenaw.org/drains HARRY SHEEHAN Chief Deputy Water Resources Commissioner

SCOTT A. MILLER, P.E. Deputy Water Resources Commissioner

Telephone 734.222.6860 Fax 734.222.6803

February 8, 2022

Mr. Jonathan Reid Cooksey, P.E. Stonefield Engineering & Design 607 Shelby, Suite 200 Detroit, Michigan 48226

Dear Mr. Cooksey:

RE: Arbor Hills Veterinary Clinic 5347 Plymouth Road Superior Township, Michigan WCWRC Project No. 8162

This office has reviewed the site plans for the above-referenced project to be located in Superior Township. These plans have a job number of DET-210369, a date of December 21, 2021, and were received on January 13, 2022. As a result of our review, we would like to offer the following comments:

- The engineer's certificate of outlet, accompanied by corresponding calculations and documentation, should be submitted to our office for review.
- 2. A storm water narrative, describing the proposed stormwater management system, should be prepared and submitted to our office for review.
- 3. A detail for an infiltration trench is shown on plan sheet C-10, but no infiltration trench is identified on the site plans.
- 4. The crushed stone mat detail shown on plan sheet C-10 identifies the bioretention retention area as having 18 inches of amended topsoil and references a detail. No additional detail is included for the bioretention basin, and the composition of the amended topsoil is not defined.
 - a. The recommended soil blend for amended soils used as planting soil includes 20 to 30 percent composted organic material and less than 10 percent clay.
- 5. A storage volume chart for each basin and BMP should be included.
- 6. The grading plan does not clearly show how the runoff from the pavement will enter the proposed bioretention basin.

Mr. Jonathan Reid Cooksey, P.E. Stonefield Engineering & Design Arbor Hills Veterinary Clinic WCWRC Project No. 8162 Page 2 of 3

- 7. On Worksheet W11, the "infiltration volume during storm" should be based on a 6-hour storm, not a 48-hour storm.
- 8. A long-term stormwater maintenance plan, including budget and responsible party, should be designed and included with the plan set. The maintenance plan shown on plan sheet C-5 is not specific to the stormwater features.
- 9. Inspection of the infiltration basins following storms of 1 inch or more should be included in the long-term stormwater maintenance plan.
- 10. Mowing of the stormwater features and buffer area is allowed a maximum of twice per year.
- 11. A note should be included to indicate that no chemicals are allowed in stormwater features or buffer zones with the following exception: invasive species may be treated with chemicals by a certified applicator.
- 12. Within areas above the maximum ponding elevation of the proposed bioretention basin, seeding and/or live plantings are allowed. Only native seeds (as defined by Michigan Flora, michiganflora.net) are allowed for permanent soil stabilization. Annual seeds are allowed in an amount necessary to temporarily stabilize the limits of disturbance. Include the species list and quantity for the Native Grass seed mix.
- 13. Below the maximum ponding elevation of the proposed bioretention basin, live plantings must cover the entire area. The first flush elevation should be noted on the details. Native plants are preferred. Cultivars and non-native perennials are allowable if approved by WCWRC. Plants listed on the WCWRC Rain Garden Plant List are acceptable. Invasive species are not allowed (see the City of Ann Arbor's invasive species list).
- 14. Plantings should be locally adapted and appropriate to the hydric conditions proposed. For more information on individual species, see "Plants for Stormwater Design: Species Selection for the Upper Midwest" by Daniel Shaw & Rusty Schmidt.
- 15. Plantings should be spaced according to each species size and growth potential to allow for sufficient coverage as required by the soil erosion permit.
- 16. Please see the attached invoice for the current fees and remit these fees upon receipt. As requested, the invoice is being submitted directly to Arbor Hills Animal Clinic, PLLC.

Mr. Jonathan Reid Cooksey, P.E. Stonefield Engineering & Design Arbor Hills Veterinary Clinic WCWRC Project No. 8162 Page 3 of 3

At your convenience, please send us a complete set of revised plans and the additional information requested above so that we may continue our review. If you have any questions, please contact our office.

Sincerely,

Theresa M. Marsik, P.E.

Stormwater Engineer

(approval\Arbor Hills Veterinary Clinic rev1)

cc: Mark Wilson, Arbor Hills Animal Clinic, PLLC

Lynette Findley, Superior Township Clerk

Laura Bennett, Superior Township Planning Department George Tsakoff, Superior Township Engineer (OHM Advisors)

FINDINGS OF REQUIRED STANDARDS AND RESOLUTION OF APPROVAL ANN ARBOR ANIMAL CLINIC, LLC January 13, 2022

WHEREAS an application for a Conditional Use Permit for a commercial veterinary clinic on the premises located at 5437 Plymouth Road, Ann Arbor, MI 48105, tax parcel L- J -10-18-155-013 in Section 18, Superior Charter Township, Washtenaw County, Michigan, was submitted; and

WHEREAS in accordance with Article 11.03.F of the Township Zoning Ordinance, the Superior Township Planning Commission held a public hearing on September 22, 2021, and public comments were received and considered; and

WHEREAS the Superior Township Planning Commission reviewed the Conditional Use Permit application for this use and per the requirements of Article 11.05.C of the Township Zoning Ordinance finds the following:

1. The proposed use will be harmonious, and in accordance with the objectives, intent, and purposes of this Ordinance.

The proposed use is harmonious and in accordance with the objectives, intent, and purposes of this Ordinance. The Village Center subarea notes a goal to gradually convert to a mixed-use area. Existing residential structures should be retained but may be converted to the non-residential uses. Though animal clinic is not a listed use, it could be considered consistent with the listed use of a small professional office.

2. The proposed use will be compatible with the natural environment and existing and future land uses in the vicinity.

The repurposing of an existing building is compatible with the natural environment and land uses in the vicinity.

3. The proposed use will be compatible with the Growth Management Plan.

The applicant is repurposing an existing building for a use recognized in the Master Plan. The repurposing of the existing building is consistent with the growth management plan.

4. The proposed use will be served adequately by essential public facilities and services, such as highways, streets, police and fire protection, drainage ways and structures, refuse disposal, or that the persons or agencies responsible for the establishment of the proposed use shall be able to provide adequately for any such services.

The proposed use can be adequality served by public facilities and services.

5. The proposed use will not be detrimental, hazardous, or disturbing to existing or future neighboring uses, persons, property, or the public welfare.

Provided the applicant meet the noted conditions of increased landscaping and providing a lighting plan in compliance with ordinance requirements, the use shall have no impact upon adjacent properties. The conditional use process permits the Township to put reasonable

Ann Arbor Animal Clinic January 13, 2022 Page 2 of 2

conditions upon the application including no outdoor dog run, no overnight boarding of animals, no onsite cremation, and no farm animals, that ensures protection to adjacent properties.

6. The proposed use will not create additional requirements at public cost for public facilities and services that will be detrimental to the economic welfare of the community.

The use will not create additional requirements at public cost for public facilities and services that will be detrimental to the economic welfare of the community.

NOW THEREFORE BE IT RESOLVED, that the Superior Township Planning Commission hereby approves the Conditional Use Permit for the Ann Arbor Animal Clinic with the following conditions:

- 1. There shall be no overnight boarding of animals or emergency animal clinic hours.
- 2. There shall be no outdoor dog run.
- 3. All parking lot lighting shall be turned off no later than 30 minutes after closing of business.
- 4. No onsite cremation.
- 5. No unsupervised outdoor care of animals...

Superior Township Site Plan Review Application Page 1 of 5 Revised 04/30/19

SITE PLAN REVIEW APPLICATION

(This application must be typewritten or printed. All questions must be answered.)

APPLICANT NAM	E David Kassab	
NAME OF PROPO DEVELOPMENT <u>+</u>		and Inspection Lab (STIL)
APPLYING FOR	(Combination: □ MINOR SITE F	LAN RELIMINARY AND FINAL SITE PLAN is at discretion of Planning Commission) PLAN OR CHANGE DETERMINATION
WILI	L PROJECT BE PH	ASED? □ YES ■ NO
IF PR	OJECT IS PHASEI	D COMPLETE THE FOLLOWING:
• Pl		rent applicationeliminary site plan approval
• D	ate of Previous Phas	se Approvals:
	Phase #	Date Date Date Date
	Phase #	Date
	Phase #	Date
	Phase #	Date
SEEKING ADDIT		AL FOR A CONDITIONAL USE YES No
Signature of the Cler	rk or Designee	
Date of Receipt of A	application	
Amount of Fee		

Superior Township Site Plan Review Application Page 3 of 5 Revised 04/30/19

CONTRACTOR TO SELECT SECURITY	PROPOSED LAND USE		
□ Residential	□ Office	□ Commercial	Other
If other, please specify	y Industrial - Automotiv	/e	
Number of units N			
Total floor area of each unit N/A			
Give a complete description of the proposed development. STIL building will be approx. 100,000SF and contain offices, workshops, and lab areas.			
	V 101		
		contain observation labs and c	
Site improvements ir	nclude 400 meter straiç	ght track, vehicle test pad, and b	pattery lab.
	ESTIM	ATED COSTS	
Buildings and other	er structures \$28,000	000.00	
• Site improvements	\$7,000,000.00		
• Landscaping \$600	,000.00		
Total \$35,600,000.0	00		
F	ESTIMATED DAT	ES OF CONSTRUCTION	
 Initial construction 	May 2022		
	•		
	August 2023		
Project completion		ICABLE)	
Project completion	August 2023 n of phases (IF APPL)	ICABLE)	
Project completionInitial construction	n of phases (IF APPL	-	
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Project completion Initial construction Completion of sub Estimated date of initial construction	n of phases (IF APPL) sequent phases. (IF A first occupancy May ACH DRAWING S ATE AND DRAWING SHEET I	APPLICABLE) 2023 SUBMITTED BY NAME ONG NUMBER (ATTACH	OF PLAN OR

APPLICANT INFORMATION

•	APPLICANTS NAME David Kassab
	Company IBI Group
	Address 25200 Telegraph Rd. Suite 300 Southfield, MI 48033
	Telephone Number
•	PROPERTY OWNER'S NAME Mark Torigian
	_{Company} Hyundai Motor America
	Address 10550 Talbert Ave. Fountain Valley, CA 92708
	Telephone Number 734-337-2298 Email MTORIGIAN@HATCI.COM
•	DEVELOPER'S NAME Mark Torigian
	Company Hyundai America Technical Center, Inc.
	Address 6800 Geddes Rd. Ypsilanti, MI 48198
	Telephone Number 734-337-2298 Email MTORIGIAN@HATCI.COM
•	ENGINEER'S NAME Gregg Tannar
	Company IBI Group
	Address 25200 Telegraph Rd. Suite 300 Southfield, MI 48033
	Telephone Number 248-936-8000 Email gregg.tannar@ibigroup.com
•	ARCHITECT/PLANNER'S NAME Gregg Stouder
	Company IBI Group
	Address 25200 Telegraph Rd. Suite 300 Southfield, MI 48033
	Telephone Number 248-936-8000 Email gregg.stouder@ibigroup.com
	Superior Charter Township 3040 N Prospect Pd Vpsilanti MI 48108

Superior Charter Township, 3040 N. Prospect Rd., Ypsilanti, MI 48198 Telephone: 734-482-6099 Website: superiortownship.org Fax 734-482-3842

Superior Township Site Plan Review Application Page 5 of 5 Revised 04/30/19

The applicant indicated on page 4 must sign this application. All correspondence regarding the application and plan will be directed to the applicant. If the applicant is not the property owner, the owner's signed consent must also be provided with this application.

APPLICANT'S DEPOSITION

I hereby depose and certify that all information contained in this application, all accompanying plans and all attachments are complete and accurate to the best of my knowledge.

APPLICANT'S PRINTED NAME: David Kassab		
APPLICANT'S SIGNATURE	DATE	2022-02-07
PROPERTY OWNER'S PRINTED NAME Mark Torig		
PROPERTY OWNER'S SIGNATURE	DATE_	3.1.3027

Legal Descriptions of Parcels:

- Parcel Number: J -10-32-100-003: ASSR REQ QCD L4621 P837 06/08/04 SU 32-1A PCL "I" COM AT NE COR OF SEC 32, TH S 87-03-35 W 60.00 FT TO A POB, TH S 02-12-36 E 2118.18 FT, TH S 87-03-35 W 1140.10 FT, TH N 02-12-36 W 2118.18 FT, TH N 87-03-35 E 1140.10 FT TO THE POB. PT OF NE 1/4 SEC 32, T2S-R7E. 55.44 AC. SPLIT ON 06/09/2004 FROM J -10-32-100-001;
- Parcel Number: J -10-32-100-007: OWNER REQUEST SU 32-1B-1A PCL " II-A " COM AT NE COR OF SEC 32, TH S 02-12-36 E 2178.18 FT TO A POB, TH CONT S 02-12-36 E 369.59 FT, TH S 87-33-10 W 1803.00 FT, TH S 02-12-36 E 108.00 FT, TH S 87-33-10 W 504.33 FT, TH N 02-00-37 W 2636.05 FT, TH N 87-03-35 E 1098.21 FT, TH S 02-12-36 E 2178.18 FT, TH N 87-03-35 E 1200.10 FT TO THE POB. PT OF NE 1/4 SEC 32, T2S-R7E. 75.40 AC. SPLIT ON 03/06/2007 FROM J -10-32-100-005, J 10-32-100-006;



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

Date: February 8, 2022

Combined Preliminary and Final Site Plan Review For Superior Township, Michigan

Applicant: David Kassab, IBI Group

Project Name: Hyundai Safety Testing and Inspection Laboratory

Location: 6800 Geddes Rd

Plan Date: January 26, 2022

Zoning: PM / Planned Manufacturing

Action Requested: Preliminary Site Plan

PROJECT DESCRIPTION

The applicant has submitted a preliminary site plan to expand the existing Hyundai America facility on Geddes Road. The 121-acre site is currently improved with 157,804 square feet of buildings. The proposed expansion of site facilities is for research and development operations. The proposed improvements include:

- STIL Building: +/- 58,000 sq.ft of office, vehicle workshops, crash labs, and electronic labs
- FCIL Building: +/- 36,500 sq.ft of office, crash hall, observation lab, control lab and analysis lab
- Substation House: +/- 4,400 sq.ft
- Battery Lab: +/- 2,100 sq.ft
- Outdoor testing area: outdoor gravel testing area and post-crash vehicle storage area and 400-meter straight test track.
- 213 parking spaces for employee and visitor parking

In December 2021, the Township Board based on a recommendation from the Planning Commission, approved an amendment to the existing Area Plan.

SITE



Area of proposed work:



Size of Subject Property:

The parcel is 121 acres

Proposed Uses of Subject Parcel:

Construction of R and D and testing facilities

<u>Current Use of Subject Property</u>:

R and D and Office

Current Zoning:

The property is currently zoned PD, Planned Manufacturing District.

Surrounding Property Details:

Direction	Zoning	Use
North	A2, Agricultural District,	Vacant
South	A2, Agricultural District, R-4 Single-Family Residential District	Vacant
East	PD, Planned Manufacturing District	Vacant
West	A2, Agricultural District	Vacant

NATURAL FEATURES

Topography: The site has a slight peak in the middle of the proposed construction area. The work will require significant grading.

Woodlands/Landmark Trees: Portions of the southern end of the site are covered with significant woodlands. The applicant has provided a detailed tree survey, which surveyed approximately 1,300 trees. The survey identified 231 landmark trees and 1 sovereign tree.

Landmark Trees		Sovereign Trees	
Preserved	Removed	Preserved	Removed
164	67	1	0

As part of the final site plan, the applicant shall provide a detailed tree mitigation/replacement

schedule as part of the landscape plan.

Wetlands/Snidecar drain: The applicant has indicated the location of wetlands on the site adjacent to the Snidecar drain. The applicant has sited the proposed new improvements to avoid any impacts upon site wetland and the Snidecar drain.

Items to be Addressed: Provide a detailed tree mitigation/replacement schedule for the landscape plan for the final site plan.



Wetland Map

SITE LAYOUT, ACCESS, AND CIRCULATION

The expanded site improvements are located on the south side of the property. There are no additional changes to site access, as the new facilities will be accessed by extending existing parking lots and drive-aisles. Access and circulation are sufficient. The applicant sited the building, test track, and outdoor testing facilities to reduce impact upon natural features.

Items to be Addressed: None

AREA, WIDTH, HEIGHT, SETBACKS

The following table summarizes the Density, Placement, and Height Regulations for the PM, Planned Manufacturing District.

Density, Placement, and Height Regulations

	Required	Provided	Compliance
Lot Area	2.0	121	Complies
Lot Width 150 feet		+150 feet	Complies
Front Setback (min/max)	50 Feet /	+50 Feet	Complies
Side Setback	10 Feet combine total of 20 Feet	+ 20 Feet	Complies
Rear Setback	35 Feet	+ 35 Feet	Complies
Lot Coverage	20 % Max	5.94%	Complies
Floor area Ratio	area Ratio 0.40 Max 4.91%		Complies
Building Height 35 Feet/ 3 Stories		STIL: 31 feet	Complies
		FCIL: 31 feet	
		Battery Lab: 16 feet	
		Substation: 22 feet	

The site meets all PM, Planned Manufacturing District requirements.

Items to be Addressed: None

PARKING

Parking requirement for the new additions. The parking table does consider parking for existing site facilities, as those were reviewed and approved as a part of a previous submittal.

	Required	Provided
Industrial, research and laboratory uses: Five (5) plus (1) per on-duty employee, plus parking for any other accessory office or other use	156 on-duty employees = 156 spaces 4 visitors = 4 spaces	160
Barrier Free	6	6
Total	160 automobile	160 automobile

Please note that there is additional parking for automobiles being tested. Parking complies with ordinance requirements.

Items to be Addressed: None

LANDSCAPING

A concept landscape plan has been provided on sheet L-100 and are supplemented by tree protection and planting details on sheet L-200. The applicant didn't include a landscape calculation table to determine if all landscape calculations have been met.

For the final site plan applicant shall provide a more detailed landscape plan including species type and size, tree mitigation requirements, and table of landscape requirements.

Items to be Addressed: For the final site plan applicant shall provide a more detailed landscape plan including species type and size, tree mitigation requirements, and table of landscape requirements.

LIGHTING

No lighting plan has been provided. A lighting plan will be required for final site plan approval. All parking lot lighting and building mounted lighting should be fully shielded and down directed.

Items to be Addressed: For final site plan submit a lighting and photometric plan.

FLOOR PLANS AND ELEVATIONS

Elevations have been provided for four buildings. Buildings STIL and FCIL are primarily insulated metal panels with store front glass on select elevations. The Battery Lab and Substation buildings are entirely CMU. Color for all buildings have not been determined.

It is difficult to assess the architecture, and material and color selection based on the information submitted by the applicant. The applicant should provide a color rendering, and a perspective of the building from Leforge Road. In addition, the applicant should provide material samples at the Planning Commission meeting.

Items to be Addressed: 1). Provide a color rendering; 2). Provide a rendering of the building from Leforge Road; and 3). Provide material samples at the Planning Commission meeting.

SUMMARY

Overall we support the investment and improvements on this site. As part of the preliminary site plan review, we asked the Planning Commission to discuss the proposed elevations based on additional requested information from the applicant.

We recommend preliminary final site plan approval with the following conditions to be submitted as part of the final site plan:

Hyundai Safety Testing and Inspections Laboratory February 8, 2022

- 1. Detailed landscape plan including species type and size, tree mitigation requirements, and table of landscape requirements.
- 2. Provide a detailed tree mitigation/replacement schedule for the landscape plan for the final site plan.
- 3. Lighting and photometric plan.
- 4. Any additional architectural changes based on Planning Commission discussion.

CARLISLE/WORTMAN ASSOC., INC. Benjamin R. Carlisle, AICP, LEED AP

Principal

cc: Ken Schwartz, Township Supervisor
Lynette Findley, Township Clerk
Richard Mayernik, CBO, Building Department
Laura Bennett, Planning Coordinator
George Tsakof, Township engineer



February 16, 2022

CHARTER TOWNSHIP OF SUPERIOR

3040 N. Prospect Road Ypsilanti, MI 48198

Attention: Lynette Findley, Township Clerk

Regarding: Hyundai Site Expansion

Preliminary Site Plan - Review No. 1

OHM Job No. 0140-21-0120

Dear Ms. Findley,

On behalf of the Township, we have reviewed the Preliminary Site Plan submittal for the above referenced project, as submitted to the Township on January 27, 2022. In our opinion, this plan is ready for action by the Planning Commission at their February meeting regarding preliminary site plan approval. We do offer the following comments related to the submittal to be addressed by the Applicant's Engineer at later stages of the project during final site plan and engineering plan preparation.

- 1. Consistent with past development on this site, the 4" domestic water main will be private, with no easement dedication to Superior Township, and will be the maintenance responsibility of the owner. A meter pit should be placed near the LeForge Rd Right-of-way line to meter the water usage for this private water main. This should be noted on the future Final Site Plan by the Applicant's Engineer. At the engineering plan submittal stage, a detailed meter pit design, signed and sealed by a design engineer licensed in the State of Michigan would be required by the Applicant.
- 2. The 4" domestic water main should be adjusted to the north to connect to the Superior Township 16" ductile iron water main. This Township water main transitions to a 12" asbestos concrete water main south of the drive to the electrical substation. This water main transition location is shown on the "Geddes and LeForge Right-of-Way Improvements As-Built Drawing" (sheet 13) which will be provided to the Applicant's Engineer for future reference. This modification should be included in the Final Site Plan.
- 3. The proposed 8" sanitary sewer(s) will be private, with no easement dedication to Superior Township, and will be the maintenance responsibility of the owner. This should be noted on the Final Site Plan. The new manhole being constructed on the Township's LaForge Road sanitary sewer for the connection of the new private sanitary sewer will be a Superior Township owned manhole. The property owner will need to notify Superior Township Utilities Department when they need to access this manhole for maintenance of their private sewers in the future.
- 4. On sheet CE-001, note #1 and #3 under "Civil General Notes" include references to the Detroit Water & Sewerage Department (DWSD) and Washtenaw County Water Resources Commissioner (WCWRC) for sanitary sewer and potable water permits and approvals. These agency references should be deleted for sanitary sewer and potable water as they do not have jurisdiction. Also, the Michigan Department of Environment, Great Lakes, and Energy (EGLE) should be added as one of the potential approval agencies. These revisions should be addressed on the Final Site Plan by the Applicant's Engineer.



- 5. On Sheet CD-100, there are two different styles of cross hatching used in plan view that both appear like the style identified in the legend as "existing impervious area/building to be removed." The Applicant's Engineer should include all cross-hatching styles in the legend on the future final site plan.
- 6. The stormwater management design on the site plan should be consistent with WCWRC Standards. Review and approval from WCWRC will be required at the Final Site Plan stage of the project.
- 7. The proposed outlet from the easterly detention facility is shown connecting to the LeForge Road ditch. Review and approval from the Washtenaw County Road Commission (WCRC) will be required at final site plan stage for this stormwater discharge and ROW disturbance.
- 8. It is anticipated that the proposed outlet from the westerly detention facility will need an NPDES discharge permit at the final site plan stage, since it will discharge to waters of the state. Also, if there will be impact to the 100-year floodplain, an EGLE permit would be required during final site plan stage.
- 9. The soil erosion and sedimentation control (SESC) measures on the site plan should meet the requirements of the WCWRC Standards and will be required to be shown on the future final site plan.

If you have any questions regarding our review, please do not hesitate to contact me at (734) 466-4439, or Cresson Slotten at (734) 466-4585.

OHM Advisors

Sincerely,

George Tsakoff, PE Principal

cc: Ken Schwartz, Township Supervisor (via e-mail)
Richard Mayernik, CBO, Building Department (via e-mail)
Laura Bennett, Planning Coordinator (via e-mail)
Ben Carlisle, CWA, Twp Planner (via email)
Paul Montagno, CWA
Cresson Slotten, OHM
file

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