Zoning Board of Appeals October 24, 2018 Regular Meeting

STAFF REPORT

Subject: ZBA18-024; 132 Hill Street

Summary:

Miller Building LLC, property owner, is requesting a 15 foot variance from Section 5.20.4 (B) Conflicting Land Use Buffers. The property is zoned R4C Multiple Family Dwelling. The property has submitted a site plan to install a shared driveway along the eastern border with the adjacent property at 140 Hill Street. The proposed driveway will require the variance to enable the construction of the drive between the two properties.

Background:

The petitioners seek approval to demolish the existing 1,830 square foot home and construct a new 11,653-square foot five-unit apartment building. The site is 11,446 square feet. Four of the proposed units would each have six bedrooms and one unit with four bedrooms, and all are intended to be student rentals.

Description and Discussion:

A 15-foot wide conflicting land use buffer (CLUB) is required along both sides and the rear of the property as this site is adjacent to residential uses. Two of the three sides meet the CLUB requirements for width and landscaping. The petitioner is requesting a variance from the eastern side CLUB requirement as this is the location of the proposed shared driveway with 140 Hill Street.

Standards for Approval- Variance

The Zoning Board of Appeals has all the power granted by State law and by Section 5.29.12, Application of the Variance Power from the City of Ann Arbor Zoning Ordinance. The following criteria shall apply:

(a). That the practical difficulties are exceptional and peculiar to the property of the person requesting the variance, and result from conditions which do not exist generally throughout the City.

The applicant states that the 15 foot buffer requirement on each side of the lot (30 feet) results in a 36 foot wide building envelope.

(b). That the practical difficulties will result from a failure to grant the variance, include substantially more than mere inconvenience, inability to attain a higher financial return, or both.

Without the variance, the reduced building envelope makes it extremely difficult to develop the property for multiple-family.

Zoning Board of Appeals ZBA 18-024 October 24, 2018 Page 2

(c). That allowing the variance will result in substantial justice being done, considering the public benefits intended to be secured by this Chapter, the individual hardships that will be suffered by a failure of the Board to grant a variance, and the rights of others whose property would be affected by the allowance of the variance.

The variance allows for a shared driveway with the adjacent property which will eliminate the need for a curb cut and minimizes impervious surface.

(d). That the conditions and circumstances on which the variance request is based shall not be a self- imposed hardship or practical difficulty.

The variance request is not self-imposed as the narrow 66 foot lot width is an existing condition.

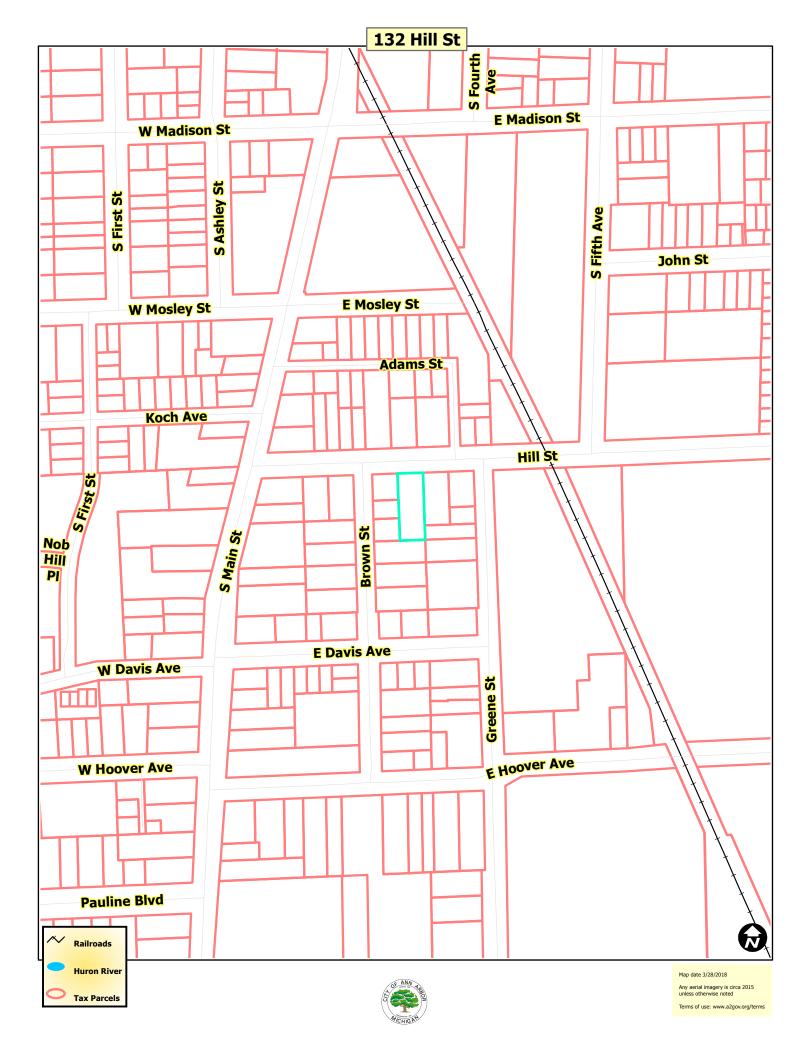
(e). A variance approved shall be the minimum variance that will make possible a reasonable use of the land or structure.

The variance being requested is the minimum necessary to allow for a shared driveway. The applicant will install the buffer along the west and south sides of the property, containing a mixture of 18 trees and numerous shrubs in the buffer. A rain garden will be installed and planted to meet the requirements of the code.

Additionally, the proposal received recommendation of approval from the City Planning Commission on October 2, 2018.

Respectfully submitted,

Jon Barrett Zoning Coordinator





A CHIGAN

Tax Parcels

Map date 3/28/2018 Any aerial imagery is circa 2015 unless otherwise noted Terms of use: www.a2gov.org/terms





Tax Parcels

ZONING BOARD OF APPEALS	Office Use Only
PLANNING DEPARTMENT	Fee Paid: 5600. ZBA: 18-024
City Hall: 301 E. Huron St. Ann Arbor, MI 48104-6120	DATE STAMP
Mailing: P.O. Box 8647, Ann Arbor, MI 48107-8647 Phone: 734.794.6265 planning@a2gov.org	CITY OF ANN ARBOR
Fax: 734.994.8460	RECEIVED
APPLICATION MUST BE FILLED OUT COMPLETELY	AUG 2 3 2018
	PLANNING & DEVELOPMENT SERVICES
PROPERTY INFORMATION	
ADDRESS OF PROPERTY:	
ZONING CLASSIFICATION:	TAX ID: (if known)
RHC	09-09-32-111-012
NAME OF PROPERTY OWNER*:	
	LLC/BOBMILLER
f different than applicant, a letter of authorization from the property	owner must be provided
APPLICANT INFORMATION	
NAME OF APPLICANT: MILLER BUILDING	LC / BOB MILLER
ADDRESS OF APPLICANT:	ANN ARBOR, MI 48103
DAYTIME PHONE NUMBER:	
734.730.4800	
EMAIL: bob@millerbuildinglic	2. Com
APPLICANT'S RELATIONSHIP TO PROPERTY:	ELOPER
REQUEST INFORMATION	
A VANIANCE NEQUEST (Complete the section -	TERATION TO A NON-CONFORMING STRUCTURE kip to Section 2)
Section 1 - VARIANCE REQUEST	
CHAPTER(S) AND SECTION(S) FROM WHICH A VARIANCE IS REQUESTED: (Ex	ample: Chapter 55, Section 5:26)
CHAPTER 62, SECTION 5:1	SED Dimension: (Example: 32')
Required billetion (Lineuplet to)	SED Dimension: (Example: 32)
Give a detailed description of the work you are proposing and why it will read	uire a variance (Attach additional sheets if necessary)
Give a detailed description of the work you are proposing and why it winted	
F-0 CUNDER DOWEWNI WI ADTORE	NT DODOEDTY BOTH PARCELS
ARE ZONED RUC AND USED AS 132 HILL IS ONLY 66 WIDE. TH	RENTAL PROPERTY.
132 HILL IS ONLY 66 WIDE. TH	ELOTINES WOULD
132 HILL IS ONLY 66 WIDE. IN BUFFER OF 15' ALONG BOTH SID Version 1-08/2017 REQUIRE 30'. A DRIV	EWAY WOULD REQUIRE
Version 1-08/2017 REQUIRE 30'. A DRIV REQUIRES 18'. THIS RESULTS IS NOT SUFFICIENT TO ACC	IN 18' WIDTH WHICH Page 3 of
IS NOT SUFFICIENT TO ACC	OWIODALL A DALEDING.



ZONING BOARD OF APPEALS

PLANNING DEPARTMENT

301 E. Huron St. Ann Arbor, MI 48104-6120 City Hall: P.O. Box 8647, Ann Arbor, MI 48107-8647

Phone: 734.794.6265 734.994.8460 Fax: planning@a2gov.org

NA

Section 2 – ALTERATION TO A NON-CONFORMING STRUCTURE

Current Use of the Property:

Mailing:

The proposed change is allowed in accordance with Structure Non-Conformance, Section 5:87 (1) (a) & (b), which reads as follows:

(1) A non-conforming structure may be maintained or restored, but no alteration shall be made to a nonconforming structure unless one of the following conditions is met:

a. The alteration is approved by the Zoning Board of Appeals upon finding that it complies as nearly as practicable with the requirements of this Chapter and that it will not have a detrimental effect on neighboring property.

b. The alteration conforms to all the requirements of this Chapter and is made to a building which will be a single-family dwelling on completion of the alteration and is located in an R1, R2, R3, or R4 district.

REQUIREMENT	EXISTING CONDITION	CODE REQUIREMENT
Lot Area		
Lot Width		
Floor Area Ratio		
Open Space Ratio		
Setbacks		
Parking		
Landscaping		
Other		

c. The structure is considered non-conforming due to the following reasons.

Describe the proposed alterations and state why you are requesting this approval:

The alteration complies as nearly as is practicable with the requirements of the Chapter and will not have a detrimental effect on neighboring property for the following reasons:





301 E. Huron St. Ann Arbor, MI 48104-6120 City Hall: P.O. Box 8647, Ann Arbor, M: 48107-8647

Phone: 734.794.6265 Fax: 734.994.8460 planning@ alaos.org

Section 2 - ALTERATION TO A NON-CONFORMING STRUCTURE

PLANNING DEPARTMENT

Wherefore, Petitioner requests that permission be granted from the above named Chapter and Section of the Ann Arbor City Code in order to permit:

REQUIRED MATERIALS

The following materials are required for ALL variance requests. Failure to provide these materials will result in an incomplete application and will delay staff review and Zoning Board of Appeals consideration of the request. The materials listed below must accompany the application and constitute an inseparable part of the application.

All materials must be provided on 8 1/2" by 11" sheets:

- One (1) hardcopy and one (1) electronic copy shall be submitted.
- The electronic copy shall include all associated supporting documentation with application submission.
- Survey of the property including all existing and proposed structures, dimensions of property, and area of property.
- Building floor plans showing interior rooms, including dimensions.
- Photographs of the property and any existing buildings involved in the request.
- Any other graphic or written materials that support the request.

ACKNOWLEDGEMENT

in Arbor City Code for I, the applicant, hereby request a variance from the above named Chapter (s) and Section (s) of the p the stated reasons, in accordance with the materials attached hereto. Signature: V Phone number:

& MILLER BUILDINGLLCCOM Email address

I, applicant, hereby depose and say that all the aforementioned statements, and the statements contained in th submitted herewith, as true and correct.

Signature

naterials

Lober

Further, I hereby give the City of Ann Arbor Planning and Development Services unit staff and members of the Zoning Board of Appeals permission to access the subject property for the purpose of reviewing, equest

Signature

Version 1-08/2017

DEVELOPER/PETITIONER/OWNER: MILLER BUILDING LLC BOB MILLER 801 WEST LIBERTY ANN ARBOR, MI 48103 PHONE: 734-730-4800

ARCHITECT: LEWIS GREENSPOON ARCHITECTS DAVID LEWIS 440 SOUTH MAIN SUITE 2 ANN ARBOR, MI 48104 PHONE: 734-786-3757

ENGINEER/PETITIONER'S AGENT: MACON ENGINEERING, LLC KATHY KEINATH, P.E. P.O. BOX 314 CHELSEA, MICHIGAN 48118 PHONE: 734-216-9941 EMAIL: kjkeinath@yahoo.com

SURVEYOR: ARBOR LAND CONSULTANTS KEVIN GINGRAS 2936 MADRONO ANN ARBOR, MI 48103 PHONE: 734-669-2960

MULTI-FAMILY RESIDENTIAL CITY OF ANN ARBOR, WASHTENAW COUNTY SITE PLAN SP18-014

STATEMENT OF INTEREST IN LAND:

MILLER BUILDING IS ACTING AS THE OWNER, PETITIONER AND DEVELOPER OF THE SITE.

DEVELOPMENT PROGRAM

THE PROPOSED DEVELOPMENT WILL INCLUDE FIVE RESIDENTIAL UNITS. THERE WILL BE 8 PARKING SPACES PROVIDED ON THE SITE. THE PROJECT WILL MOST LIKELY PROVIDE STUDENT HOUSING. THE DEVELOPMENT HAS BEEN PLANNED TO PROVIDE ADEQUATE PARKING, INGRESS AND EGRESS, STORM WATER MANAGEMENT FACILITIES, PEDESTRIAN CONNECTIONS AND ALL OTHER REQUIRED SITE ELEMENTS. THE SITE IS TO BE DEVELOPED IN ONE PHASE. THE PROPOSED PROJECT IS SCHEDULED TO BEGIN UPON APPROVAL AND COMPLETED BY 2019. CONSTRUCTION COST ARE CURRENTLY ESTIMATED TO BE \$1,000,000.

COMMUNITY ANALYSIS

THE PROPOSED PROJECT IS LOCATED ON THE SOUTH SIDE HILL STREET BETWEEN BROWN AND ADAMS STREETS, JUST EAST OF SOUTH MAIN STREET. THE SITE CONTAINS ONE LOT THAT IS ZONED R4C. THE EXISTING USE IS SINGLE FAMILY RESIDENTIAL. THE PROPOSED USE OF THE BUILDING IS RESIDENTIAL. THE PROPERTY TO THE WEST, EAST, NORTH AND SOUTH IS CURRENTLY ZONED R4C RESIDENTIAL. THE PROPOSED DEVELOPMENT WILL NOT HAVE A NEGATIVE IMPACT ON PUBLIC SCHOOLS, AIR OR WATER QUALITY. THERE ARE NO HISTORIC FEATURES ON THE SITE. THE NATURAL FEATURES ON THE SITE INCLUDE ONE LANDMARK TREE THAT IS TO REMAIN UNDISTURBED.

THE PROPOSED DEVELOPMENT WILL BE AN IMPROVEMENT TO THE EXISTING SITE WHICH INCLUDES AN OLDER HOME THAT HAS DETERIORATED. THE INTENDED USE AS A RESIDENTIAL PROPERTY WILL BE CONSISTENT WITH OTHER RESIDENTIAL USES IN THE NEIGHBORHOOD.

THE PROJECT WILL BE HARMONIOUS WITH THE SURROUNDING PROPERTIES IN THE NEIGHBORHOOD AND SPECIFICALLY THE PROPERTIES TO THE EAST, WEST, SOUTH AND NORTH OF THE SITE. THE FRONT YARD SETBACK HAS BEEN AVERAGED AS ALLOWED BY ZONING CODE TO BE CONSISTENT WITH THE ADJACENT PROPERTIES.

GENERAL DESCRIPTION OF NATURAL FEATURES

THERE ARE NO FLOODPLAINS, WOODLAND, WETLANDS, WATERCOURSES, STEEP SLOPES OR ENDANGERED SPECIES HABITAT ON THE SITE. THERE IS ONE 16" LANDMARK MAPLE TREE LOCATED AT THE SOUTHWEST CORNER OF THE PROPERTY THAT WILL NOT BE DISTURBED.

NATURAL FEATURES STATEMENT OF IMPACT

THE ONLY NATURAL FEATURE ON THE SITE IS A 16" LANDMARK MAPLE TREE LOCATED ALONG THE SOUTHWEST PROPERTY LINE. THE PARKING LOT HAS BEEN DESIGNED WITH A COMPACT CAR SPACE AT THE SOUTHWEST CORNER WITH PROPOSED GRADES TO MATCH EXISTING GRADES TO AVOID ANY NEGATIVE IMPACTS TO THE TREE. THE TREE WILL REMAIN ON THE SITE AND WILL BE PROTECTED WITH TREE FENCING AROUND THE CRITICAL ROOT ZONE DURING CONSTRUCTION . THERE IS ONE 16" LANDMARK MAPLE TREE THAT IS A CITY STREET TREE. THIS TREE WILL NOT BE DISTURBED EXCEPT FOR THE REPLACEMENT OF THE EXISTING SIDEWALK. EXISTING GRADES WILL BE MAINTAINED TO THE EXTENT POSSIBLE TO REDUCE ANY POSSIBLE IMPACTS TO THE TREE.

TRAFFIC IMPACT ANALYSIS VEHICULAR. PEDESTRIAN AI

VEHICULAR, PEDESTRIAN AND BICYCLE ROUTES ARE SHOWN ON THE PLANS. NO TRUCK TRAFFIC TO THE SITE IS ANTICIPATED. ONE NEW ENTRANCE TO THE PARKING AREAS WILL BE LOCATED ON HILL STREET. THE NEW APPROACH WILL BE PART OF A SHARED DRIVEWAY EASEMENT WITH THE ADJACENT PROPERTY TO THE EST. THE EXISTING CURB CUTS ON HILL STREET WILL BE REMOVED. THE SITE IS EXPECTED TO HAVE LESS THAN 1 TRIP PER UNIT PER HOUR AND LESS THAN 32 TRIPS PER PEAK HOUR. NO TRAFFIC STUDY IS REQUIRED.

				A	M Peak Ho	ur	Р	M Peak Ho	ur
Land Use	ITE Code	Amount	Units	In	Out	Total	In	Out	Total
Residential Units	230	5	DU	0.5	2.4	2.9	2.3	1.1	3.4
Trip Rates taken fr	om ITE Trip	Generatior	n manual, 9	th Edition					

LEGAL DESCRIPTION TAX ID 09-09-32-111-012

LOT 10 AND THE EAST $\frac{1}{2}$ OF LOT 11, "WILLIAM A. BENEDICT'S PLAT", A SUBDIVISION OF THE NORTHEAST $\frac{1}{4}$ OF SECTION 32, TOWN 2 SOUTH, RANGE 6 EAST, ANN ARBOR TOWNSHIP (NOW THE CITY OF ANN ARBOR), WASHTENAW COUNTY, MICHIGAN, AS RECORDED IN LIBER 44 OF DEEDS, PAGE 748, OF WASHTENAW COUNTY RECORDS CONTAINING 0.26 ACRES OF LAND, MORE OR LESS.

132 HILL STREET

SITE TRIP GENERATION

COMPARISON CHART

	EXISTING	REQUIRE
ZONING	R4C	R4C
USES		
RESIDENTIAL	1 Unit	n/a
BEDROOMS PER UNIT	N/A	n/a
TOTAL BEDROOMS	N/A	n/a
BUILDING		
FLOOR AREA	4,236 sf	n/a
PROPERTY REGULATIONS		
LOT AREA/DWELLING UNIT	11,446 sf	2,175 sf
MIN ACTIVE OPEN SPACE PER DWELLING UNIT	N/A	300 sf
LOT AREA MIN	11,446 sf	8,500 sf
MIN LOT WIDTH	65.95	60 ft
MAX. BUILDING HEIGHT	25 ft	30 ft
MIN OPEN SPACE	N/A	40%
PROPERTY SETBACKS		
FRON	IT 12.78 ft	25.00 ft
REA	AR 103.74 ft	30.00 ft
SIE	DE 9.73 ft	12.00 ft
OFF STREET PARKING		
PARKING 1.5 PER UNIT RESIDENTIAL	2	7.5
BICYCLE PARKING 1 PER 5 UNITS RESIDENTIAL	0	1 A

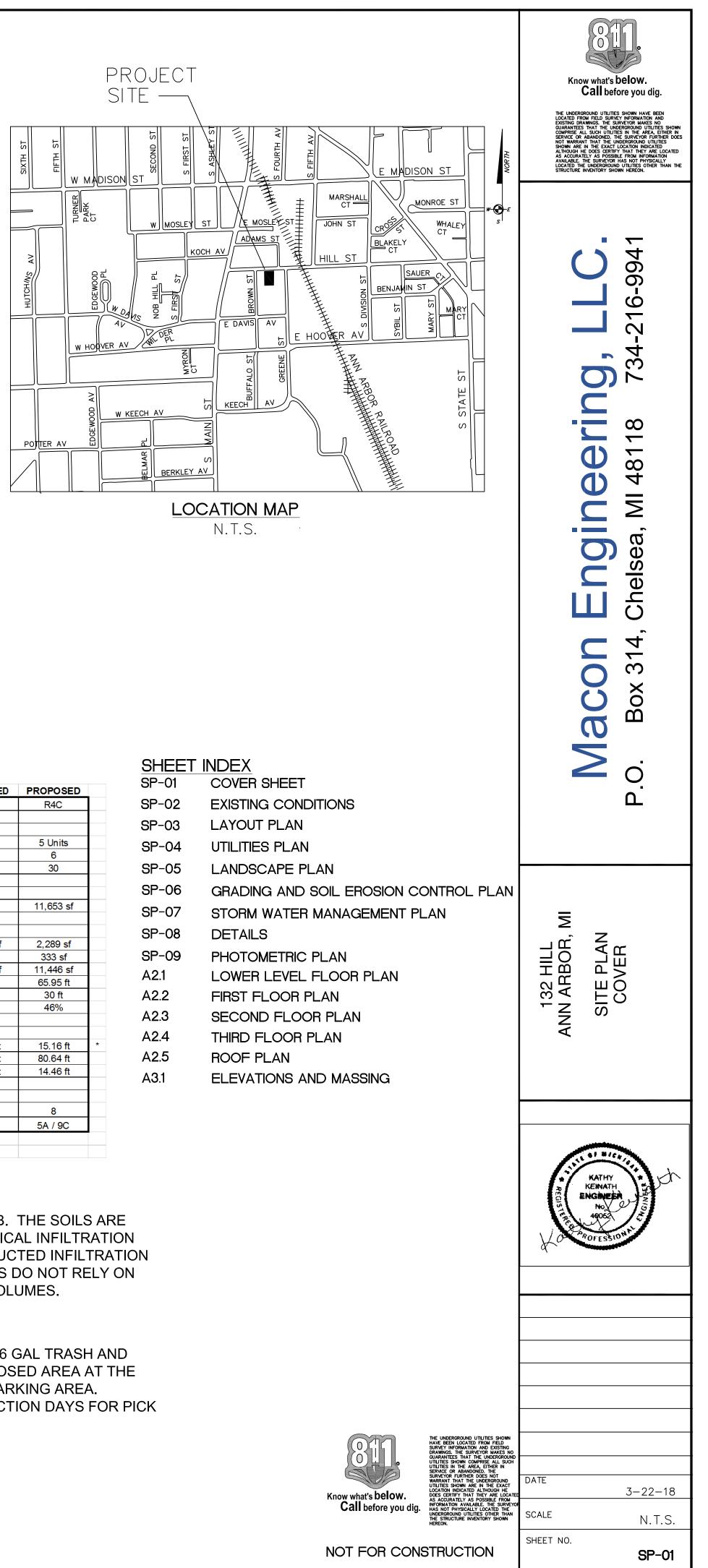
* AVERAGE FRONT SETBACK PROVIDED AS ALLOWED BY CITY CODE

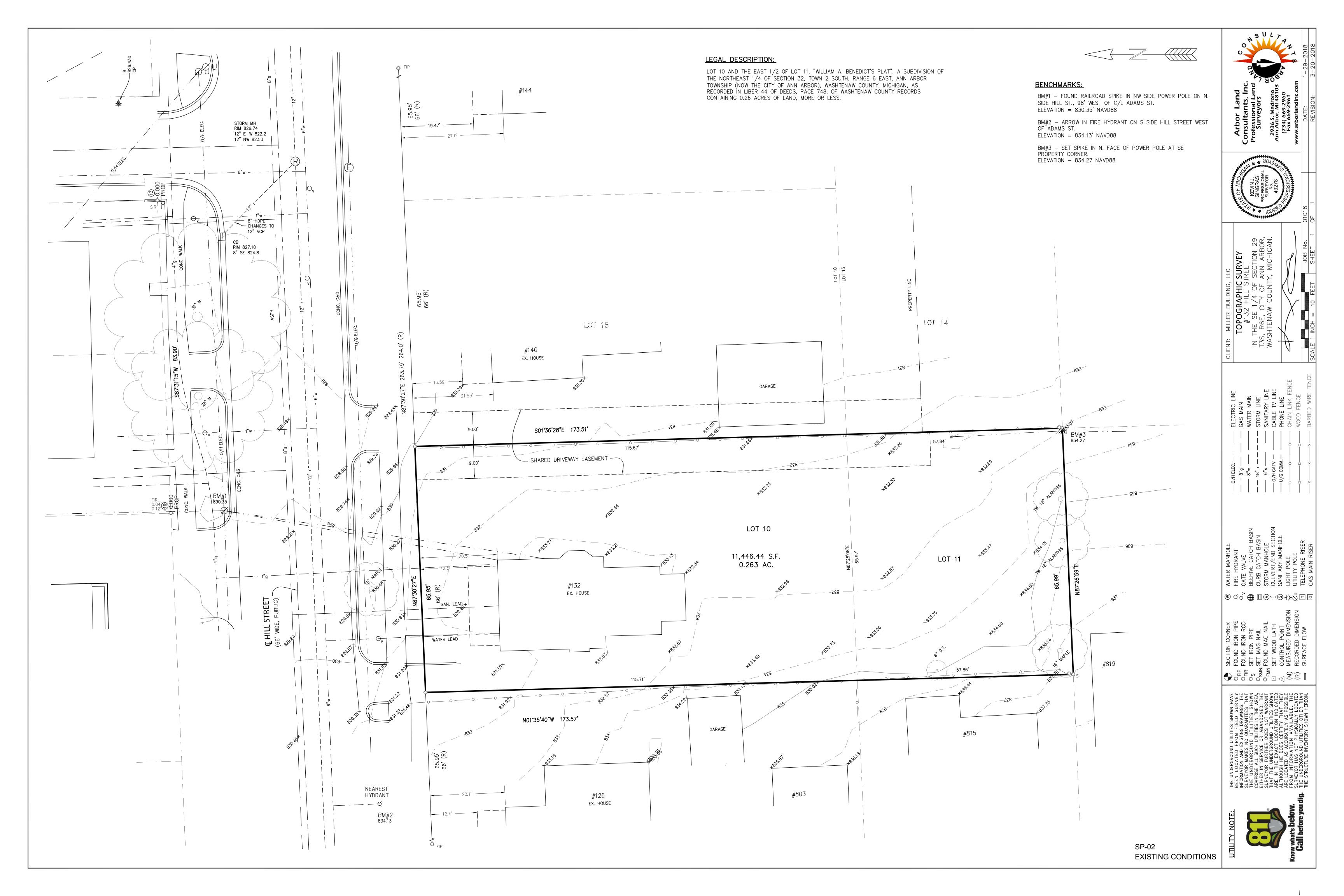
SOIL TYPES

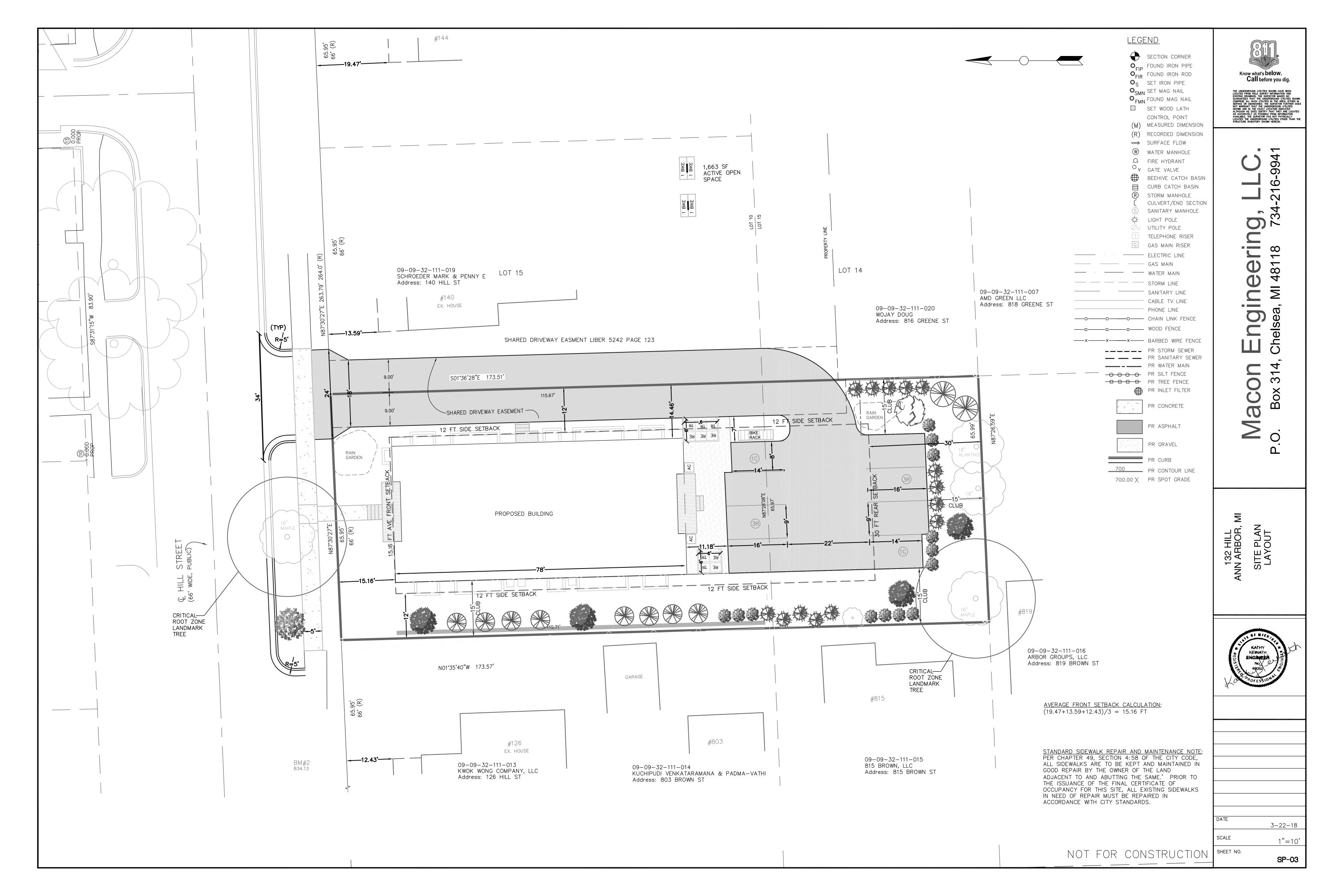
THE SOILS ON THE SITE ARE FOX SERIES FOA AND FOB. THE SOILS ARE CLASSIFIED AS HYDRAULIC SOILS GROUP B WITH TYPICAL INFILTRATION RATES OF 0.6 IN/HR. THE PETITIONER HAS NOT CONDUCTED INFILTRATION TESTING FOR THIS SMALL SITE AS THE CALCULATIONS DO NOT RELY ON INFILTRATION TO MEET THE REQUIRED DETENTION VOLUMES.

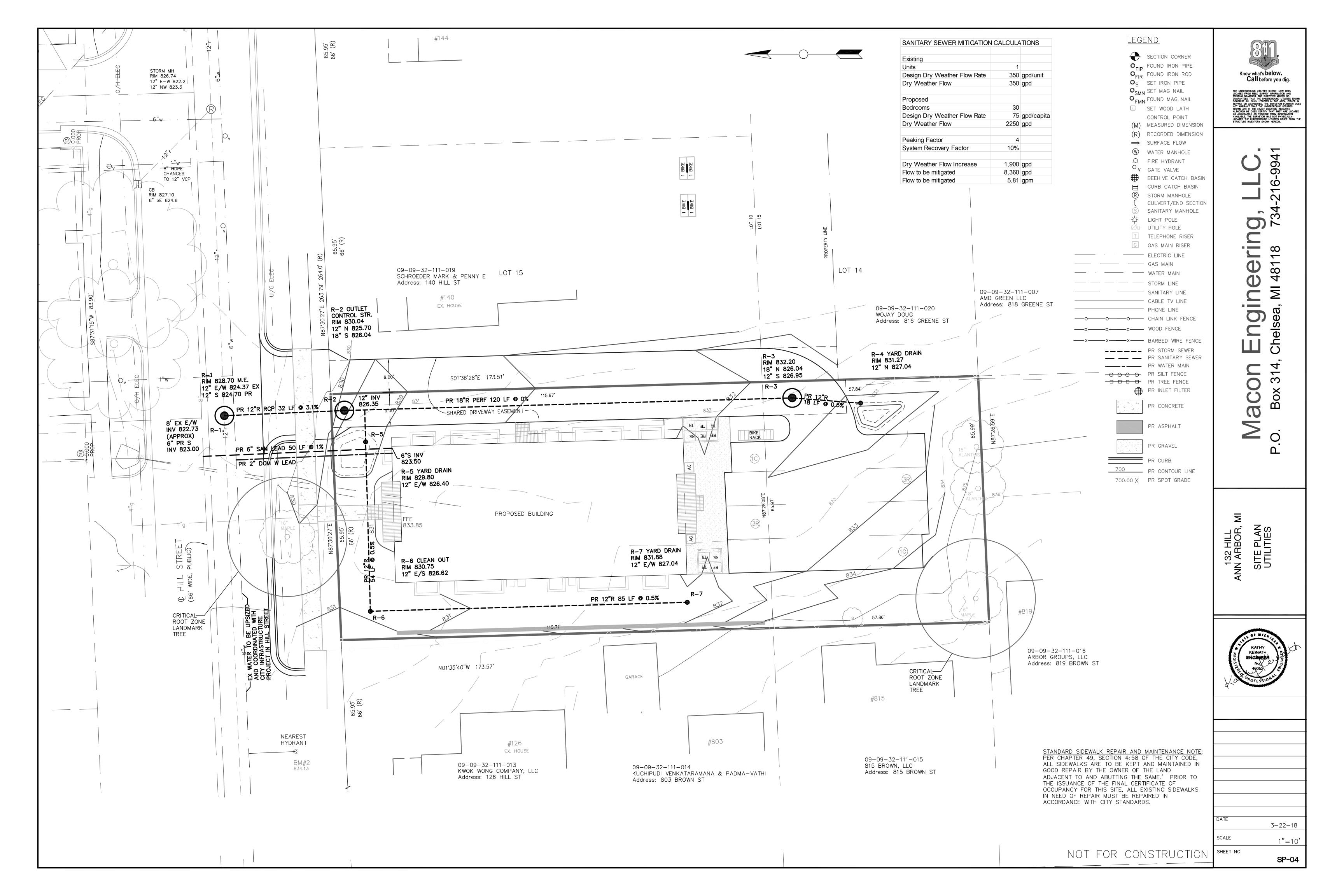
SOLID WASTE DISPOSAL PLAN

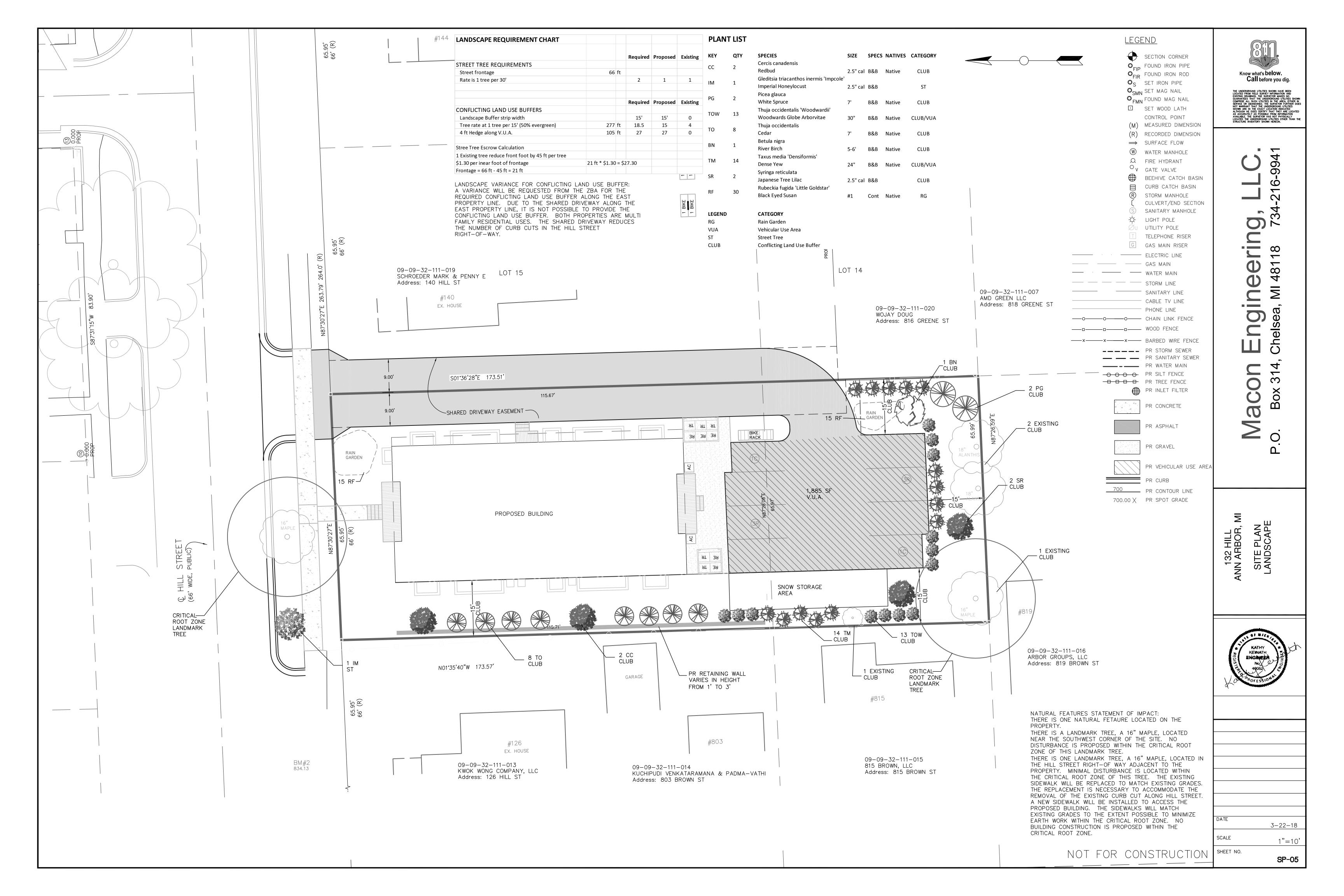
THE DEVELOPMENT PROPOSES TO PROVIDE FIVE (5) 96 GAL TRASH AND FIVE (5) 96 GAL RECYCLING CONTAINERS IN THE ENCLOSED AREA AT THE REAR OF THE BUILDING AND THE EAST SIDE OF THE PARKING AREA. CONTAINERS WILL BE WHEELED CURBSIDE ON COLLECTION DAYS FOR PICK UP.

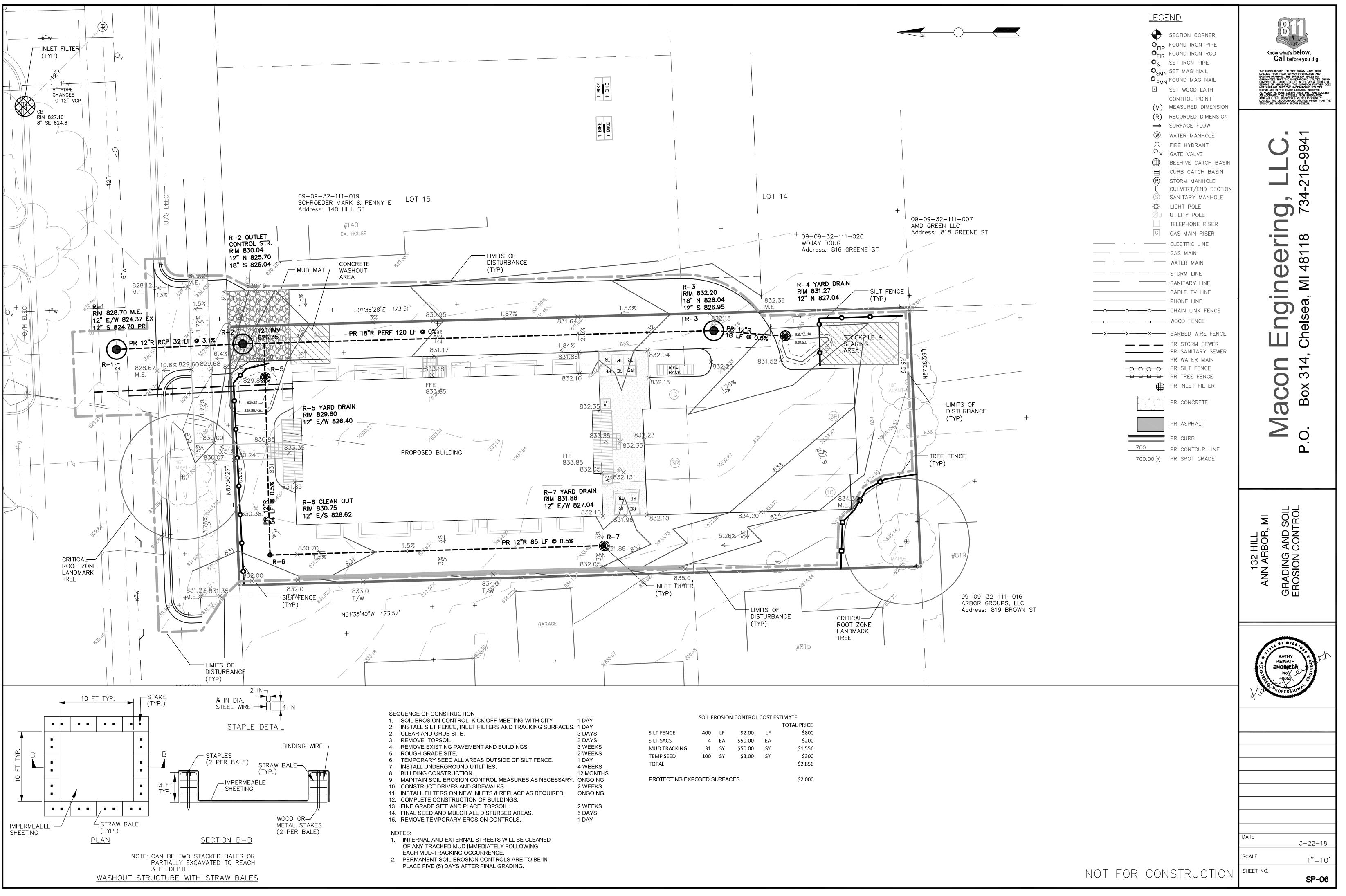


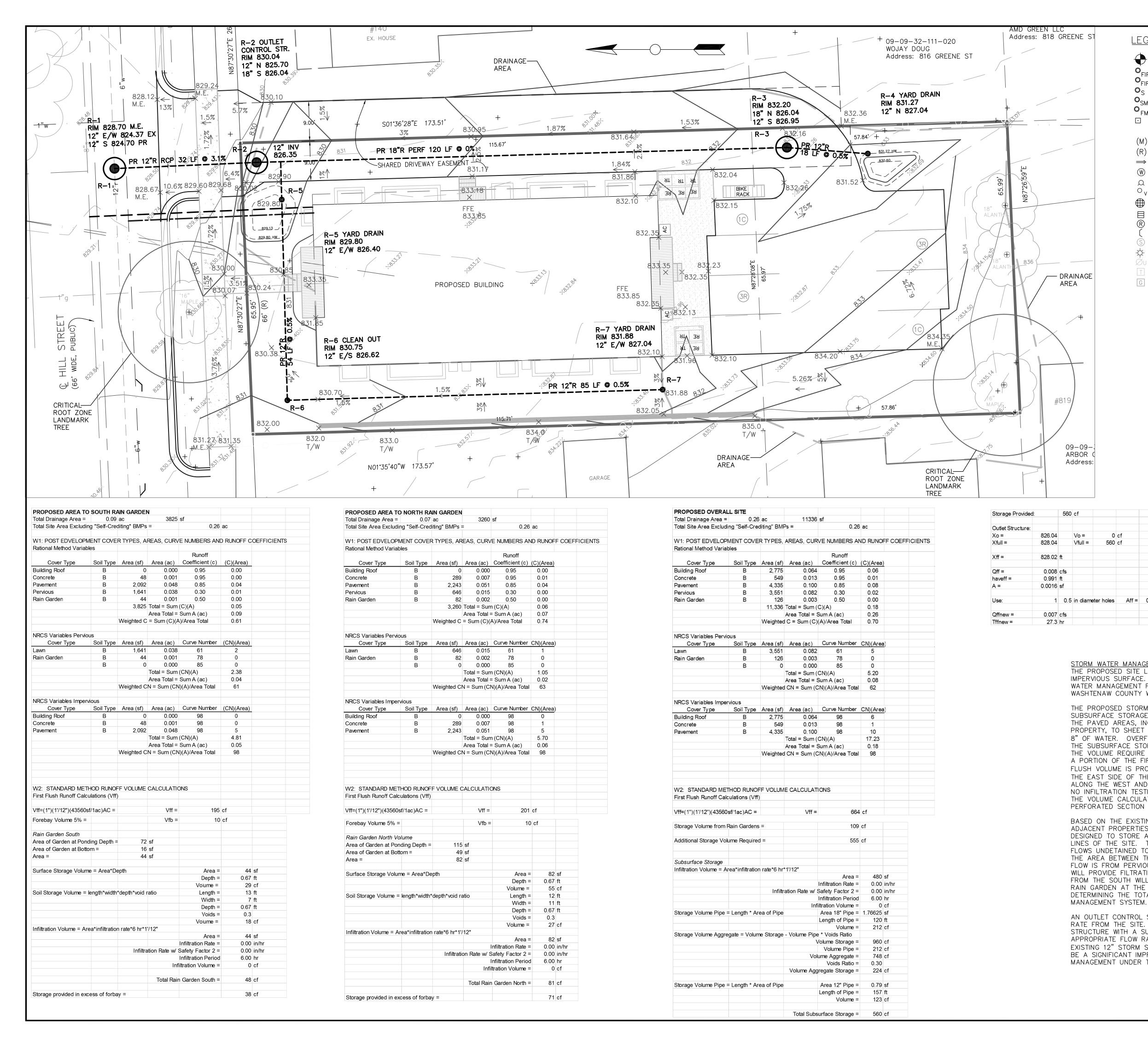








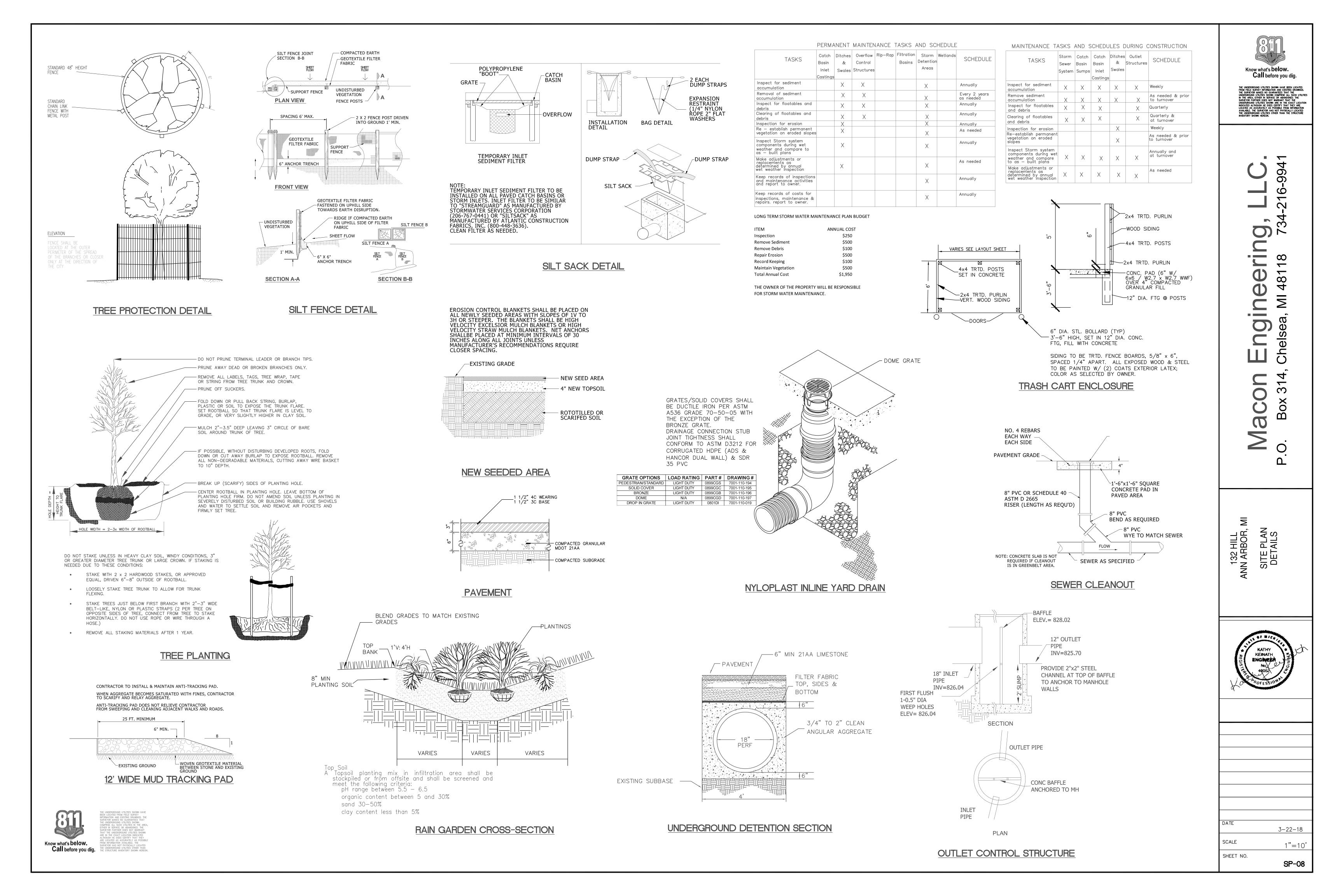


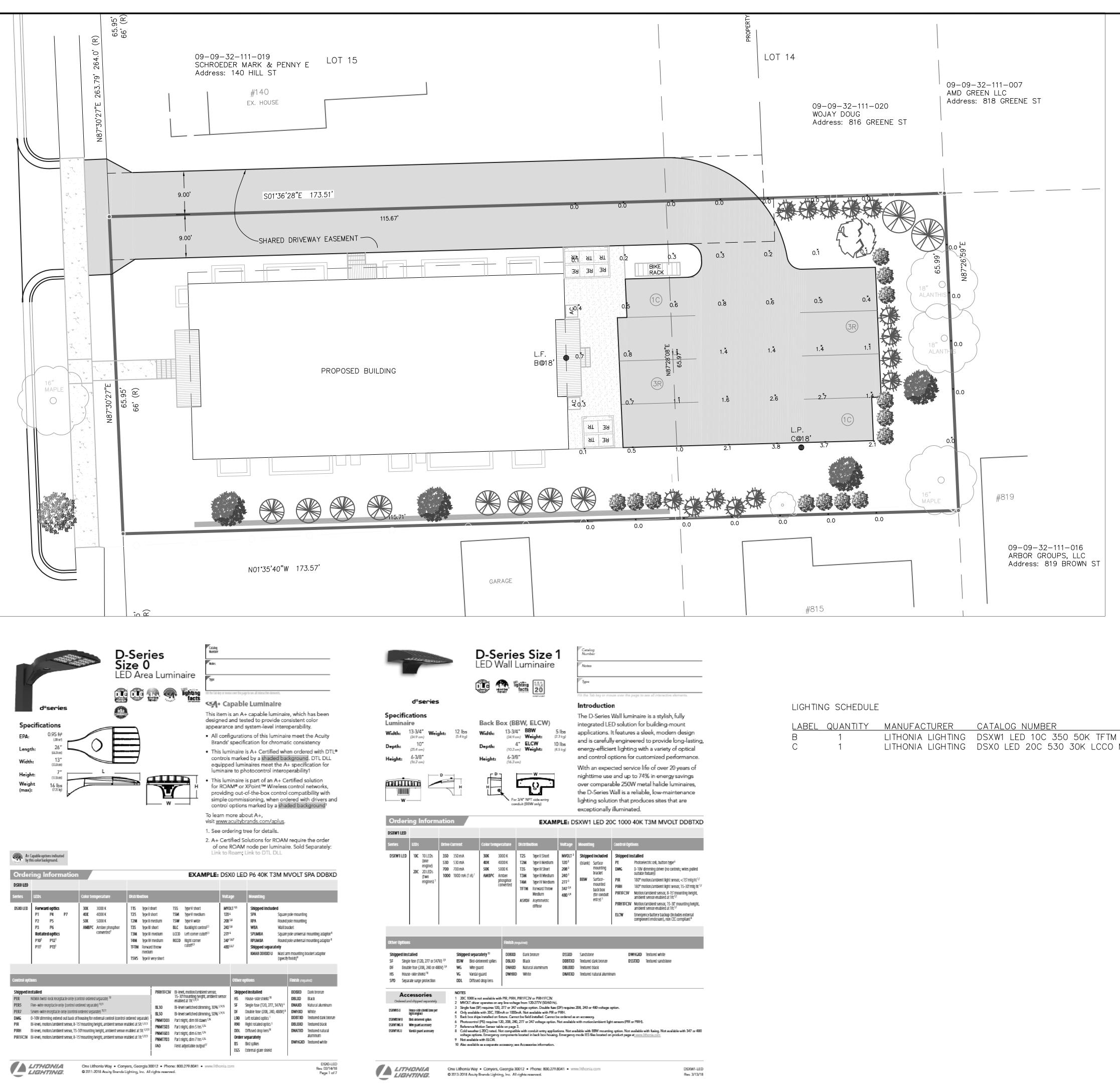


<u>LEGEND</u> SECTION CORNER ELECTRIC LINE FOUND IRON PIPE ----- GAS MAIN ${f O}_{\sf FIR}$ found iron rod Know what's **below**. ----- WATER MAIN Call before you dig. ©_S SET IRON PIPE STORM LINE ©_{SMN} SET MAG NAIL HE UNDERGROUND UTILITIES SHOWN HAVE BEEN OCATED FROM FIELD SURVEY INFORMATION AND USISTING DRAWINGS. THE SURVEYOR MAKES NO UJARANTEES THAT THE UNDERGROUND UTILITIES OWRRISE ALL SUCH UTILITIES IN THE AREA, EIT ERVICE OR ABANDONED. THE SURVEYOR FURTH INFORMATION THAT THE UNDERGROUND UTILITIE HOWN ARE IN THE EXACT LOCATION INDICATED LIHOUGH HE DOES CERTIFY THAT THEY ARE LC USILABLE. THE SURVEYOR HAS NOT FMISICALL OCATED THE UNDERGROUND UTILITIES OTHER TH RUCUTIRE INVENTORY SHOWN HEREON. SANITARY LINE © FMN FOUND MAG NAIL CABLE TV LINE ☑ SET WOOD LATH PHONE LINE CONTROL POINT (M) MEASURED DIMENSION (R) RECORDED DIMENSION \implies SURFACE FLOW $\overline{}$ W WATER MANHOLE ---- PR STORM SEWER 4 🗕 🗕 PR SANITARY SEWER Q FIRE HYDRANT တ PR WATER MAIN OV GATE VALVE Õ - O O O O PR SILT FENCE BEEHIVE CATCH BASIN Q CURB CATCH BASIN $\overline{}$ PR INLET FILTER STORM MANHOLE \sim CULVERT/END SECTION PR CONCRETE SANITARY MANHOLE \mathbf{c} - LIGHT POLE O. \sim UTILITY POLE PR ASPHALT TELEPHONE RISER G GAS MAIN RISER PR GRAVEL 00 $\overline{}$ Ľ $\overline{}$ PR CURB 00 700 PR CONTOUR LINE $\mathbf{4}$ 700.00 X PR SPOT GRADE . \geq σ O (1) els Ch $\mathbf{4}$ $\overline{}$ 3 XO \mathbf{O} Ω Ο 0 cf 560 cf 1 0.5 in diameter holes Aff = 0.0014 sf @ 826.04 AN 132 HILL ANN ARBOR, PLAN I WAT GEME SITE F TORM STORM WATER MANAGEMENT NARRATIVE: HE PROPOSED SITE LAYOUT INCLUDES MORE THAN 5,000 SF AND LESS THAN 10,000 SF OF ຽ≥ IMPERVIOUS SURFACE. BASED ON CITY CODE, THE PROJECT IS REQUIRED TO PROVIDE STORM WATER MANAGEMENT FOR THE FIRST FLUSH VOLUME OF WATER CALCULATED USING THE WASHTENAW COUNTY WATER RESOURCES COMMISSION DESIGN GUIDELINES. THE PROPOSED STORM WATER MANAGEMENT PLAN INCLUDES TWO RAIN GARDENS AND SUBSURFACE STORAGE. THE GRADING PLAN HAS BEEN DESIGNED TO ALLOW RUNOFF FROM THE PAVED AREAS, INCLUDING THE PORTION OF THE DRIVEWAY LOCATED ON THE ADJACENT PROPERTY, TO SHEET FLOW TO THE RAIN GARDENS. THE GARDENS ARE DESIGNED TO POND 8" OF WATER. OVERFLOW STRUCTURES ARE LOCATED IN EACH GARDEN THAT EMPTY INTO THE SUBSURFACE STORAGE PIPES. THE GARDENS ARE OF SUFFICIENT CAPACITY TO PROVIDE 61 #/c THE VOLUME REQUIRE TO ACT AS FORBAYS WITH EXCESS CAPACITY AVAILABLE TO PROVIDE KATHY A PORTION OF THE FIRST FLUSH DETENTION VOLUME. THE REMAINING REQUIRED FIRST KEINATH FLUSH VOLUME IS PROVIDED BY THE 18" PERFORATED PIPE BEDDED IN AGGREGATE ALONG ENGINEER THE EAST SIDE OF THE BUILDING UNDER THE DRIVEWAY, AND BY THE 12" PIPE THAT RUNS NoX ALONG THE WEST AND NORTH SIDES OF THE BUILDING. AS THIS SITE IS RELATIVELY SMALL, NO INFILTRATION TESTING WAS PERFORMED AND NO INFILTRATION WAS ACCOUNTED FOR IN THE VOLUME CALCULATIONS ALTHOUGH WATER IS EXPECTED TO INFILTRATE ALONG THE PERFORATED SECTION OF PIPE. BASED ON THE EXISTING DRAINAGE PATTERNS, THERE IS OFF SITE FLOW FROM THE ADJACENT PROPERTIES THAT FLOWS ON TO THE SITE. THE DRAINAGE AREA HAS BEEN DESIGNED TO STORE A SLIGHTLY GREATER AREA THAN THE AREA WITHIN THE PROPERTY LINES OF THE SITE. THERE IS AN AREA ALONG THE WEST SIDE OF THE BUILDING THAT FLOWS UNDETAINED TO THE HILL STREET RIGHT-OF-WAY. THIS AREA RECEIVES FLOW FROM THE AREA BETWEEN THE PROPOSED RETAINING WALL AND THE PROPOSED BUILDING. THE FLOW IS FROM PERVIOUS AREAS AND HAS BEEN DIRECTED TO A VEGETATED SWALE THAT WILL PROVIDE FILTRATION OF THE RUNOFF AND SLOW THE RUNOFF RATE. THE OFFSITE FLOW FROM THE SOUTH WILL FLOW ONTO THE PROPERTY AND ACROSS THE PARKING AREA TO THE RAIN GARDEN AT THE SOUTH SIDE OF THE BUILDING. THE FLOW HAS BEEN INCLUDED IN DETERMINING THE TOTAL VOLUME OF FIRST FLUSH VOLUME FOR THE STORM WATER AN OUTLET CONTROL STRUCTURE IS PROPOSED TO ACHIEVE THE ALLOWABLE DISCHARGE RATE FROM THE SITE. THE OUTLET CONTROL STRUCTURE CONSIST OF A 4 FT DIAMETER STRUCTURE WITH A SUMP AND A BAFFLE WITH ORIFICES SIZED TO MAINTAIN THE APPROPRIATE FLOW RATE. THE OUTLET CONTROL STRUCTURE WILL DISCHARGE TO THE EXISTING 12" STORM SEWER IN HILL STREET. THIS STORM WATER MANAGEMENT SYSTEM WILL BE A SIGNIFICANT IMPROVEMENT TO THE SITE AS THERE IS CURRENTLY NO STORM WATER MANAGEMENT UNDER THE EXISTING CONDITIONS. 3-22-18 SCALE 1"=10' SHEET NO.

NOT FOR CONSTRUCTION

SP-07

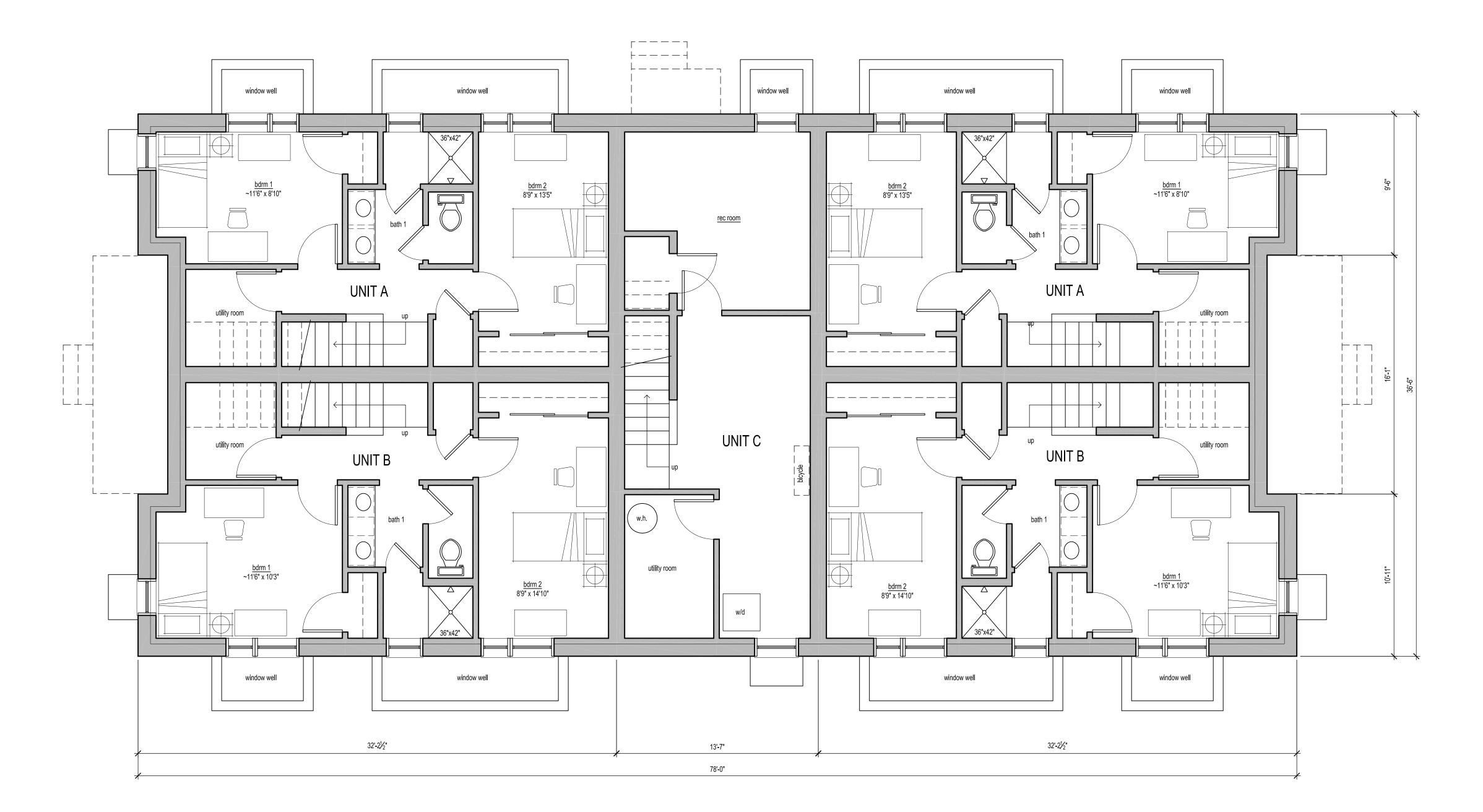


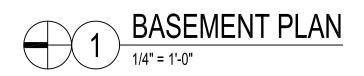


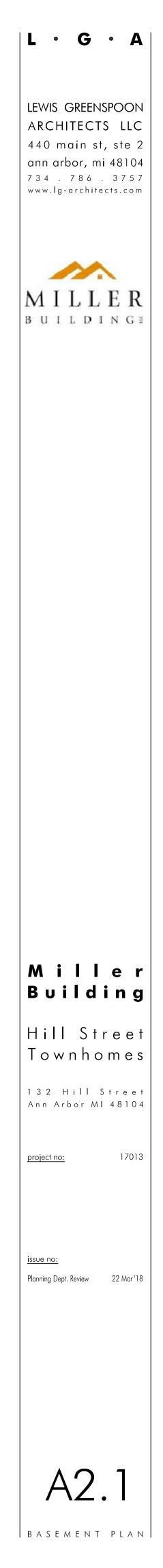
m	DSSXD DOBTXD DBLEXD DNATXD	Sandstone Textured dark bronze Textured black Textured natural aluminum	DWHGXD DSSTXD	Textured white Textured sandstone
CC BV				

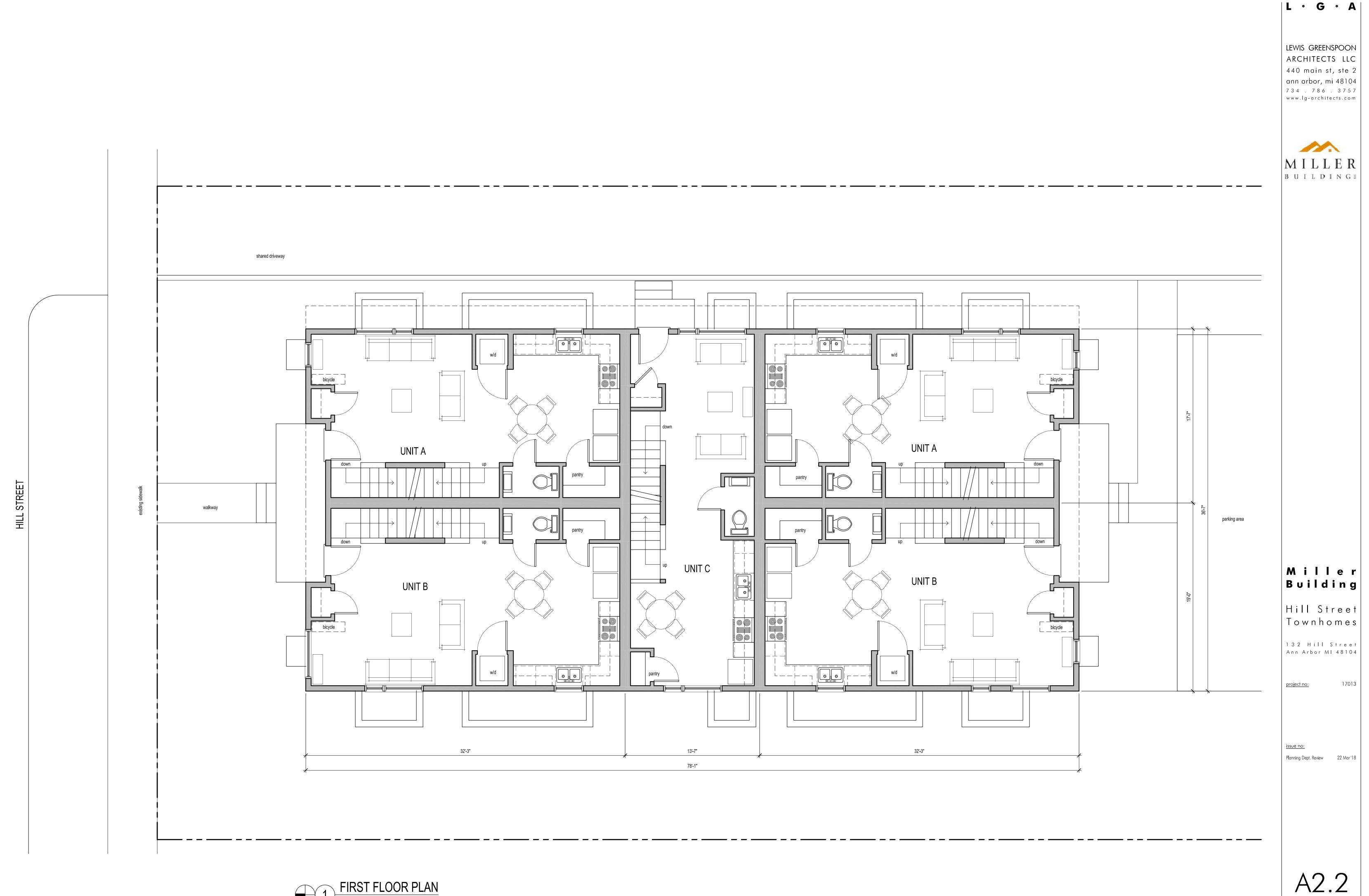
14			LEGEND SECTION CORNER FIP FOUND IRON PIPE FIR FOUND IRON ROD	Know what's below.
09–09–32–111–020 WOJAY DOUG Address: 816 GREENE ST	09-09-32-111-007 AMD GREEN LLC Address: 818 GREENE ST		 ● FIR FOOND INON ROD ● S SET IRON PIPE ● SMN SET MAG NAIL ● FMN FOUND MAG NAIL ⊡ SET WOOD LATH CONTROL POINT (M) MEASURED DIMENSION 	Know what's below. Call before you dig. The underground utilities shown have been located from field survey information and existing drawings. The survey information and custanters that the underground utilities shown comprise all such utilities in the area, either in service or adamdoned. The survey of further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The survey of has not physically located the underground utilities other than the structure inventory shown hereon.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			(R) RECORDED DIMENSION ⇒ SURFACE FLOW W WATER MANHOLE Q FIRE HYDRANT O GATE VALVE BEEHIVE CATCH BASIN CURB CATCH BASIN E CURB CATCH BASIN E CURB CATCH BASIN W STORM MANHOLE CULVERT/END SECTION SS SANITARY MANHOLE LIGHT POLE UTILITY POLE TELEPHONE RISER G GAS MAIN WATER MAIN STORM LINE SANITARY LINE CABLE TV LINE PHONE LINE PR STORM SEWER PR STORM SEWER PR WATER MAIN PR CONCRETE PR INL	Macon Engineering, LLC. P.O. Box 314, Chelsea, MI 48118 734-216-9941
LIGHTING SCHEDULE LABEL QUANTITY MANUFACTU B 1 LITHONIA LIC C 1 LITHONIA LIC	GHTING DSXW1 LED 10C 350 50K TFTM MVOLT	DESCRITPTION LAMP HS W/ HOUSE SHIELDS LED CORNER CUTOFF LED		132 HILL ANN ARBOR, MI SITE PLAN PHOTOMETRIC
				KATHY KEINATH ENGINEEN No 40052 ROFESSIONI

SP-09

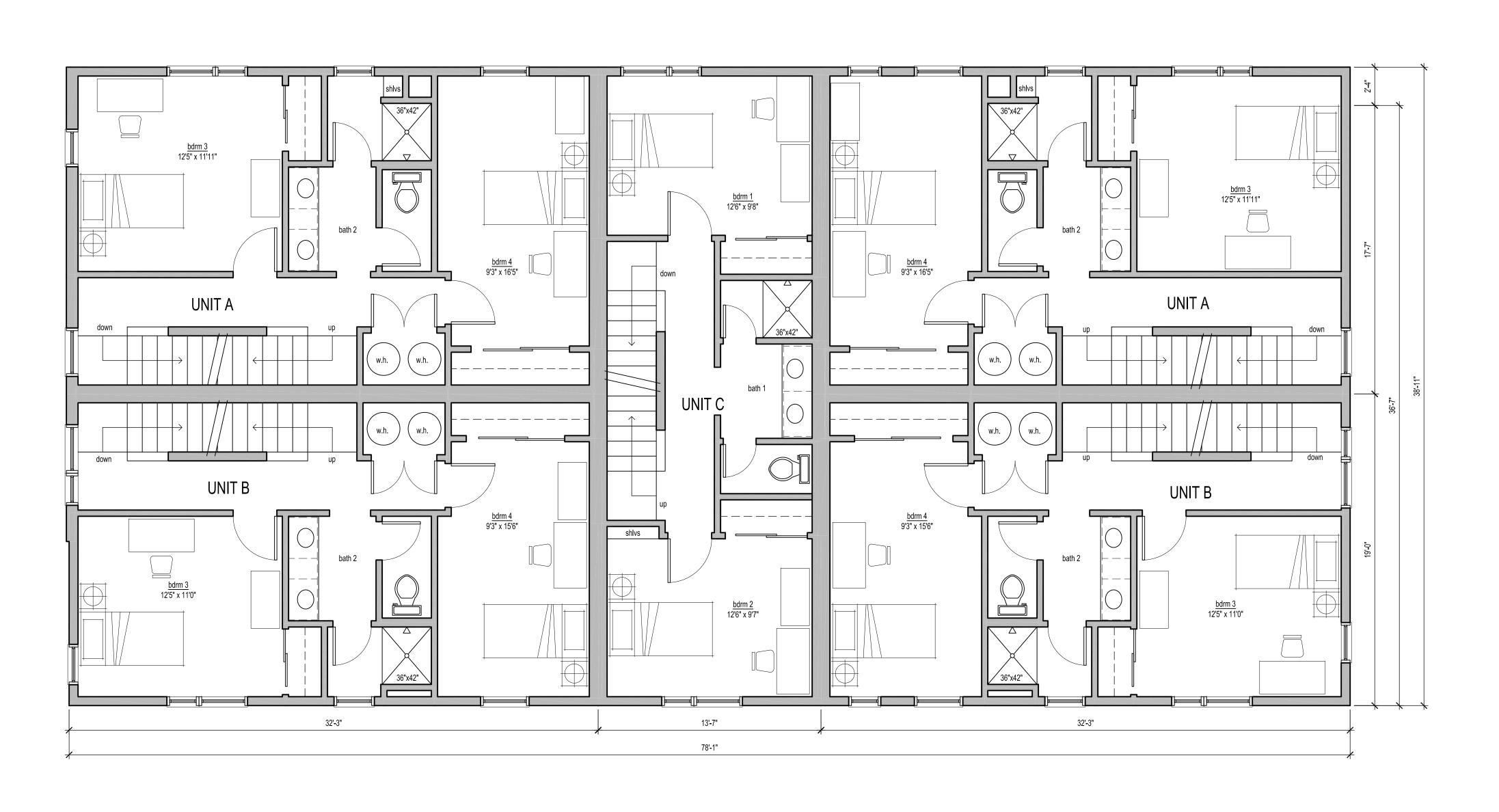




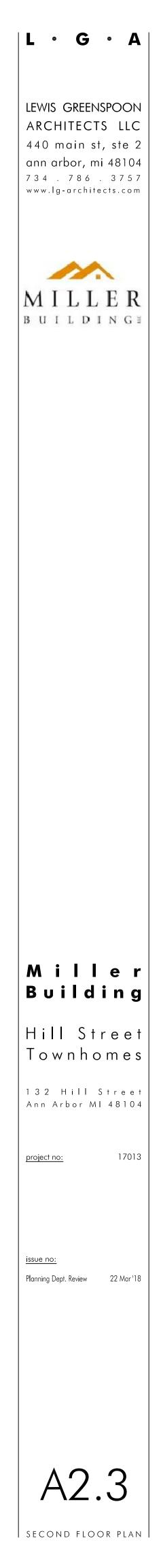


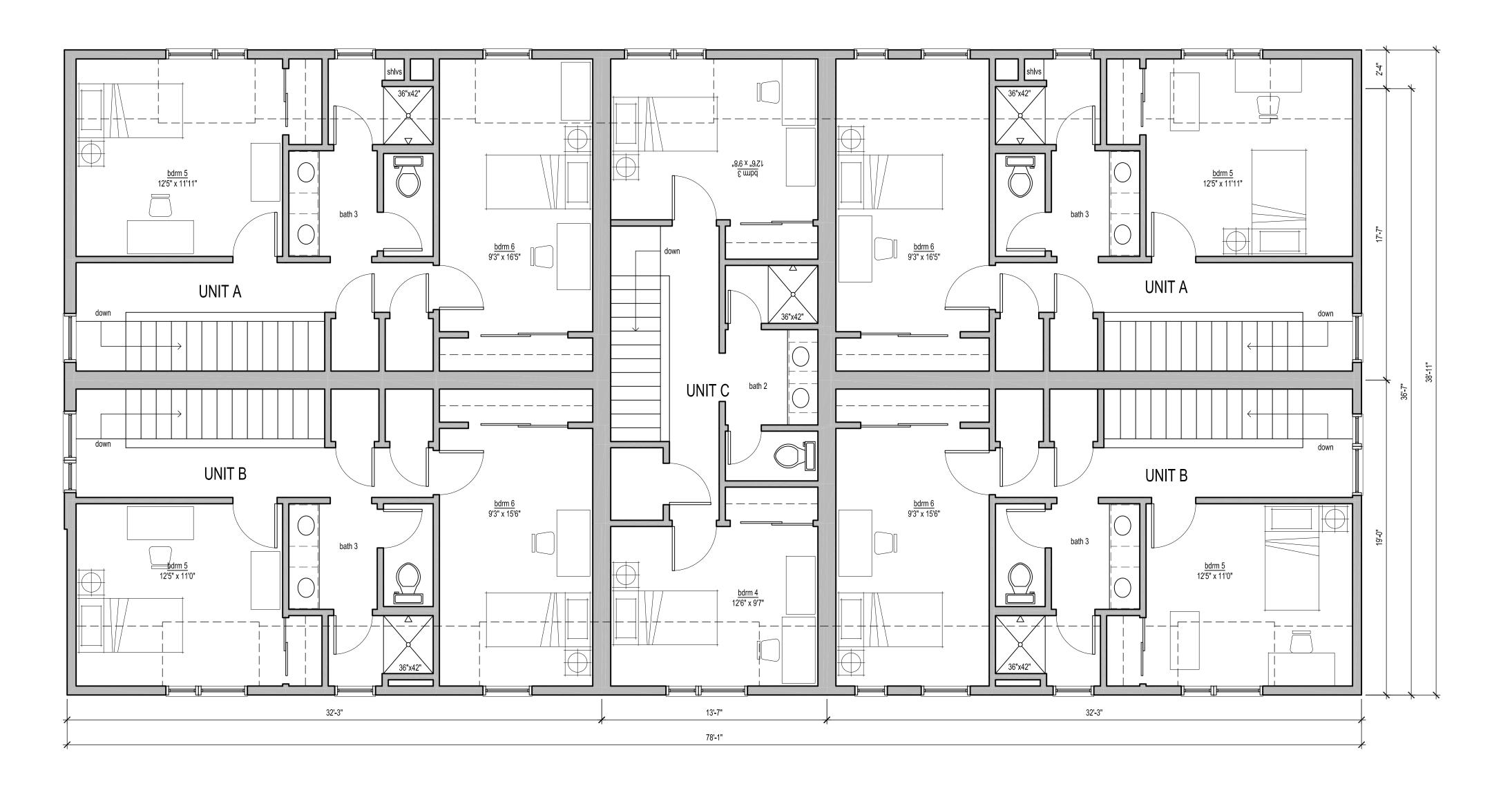


FIRST FLOOR PLAN 1/4" = 1'-0"

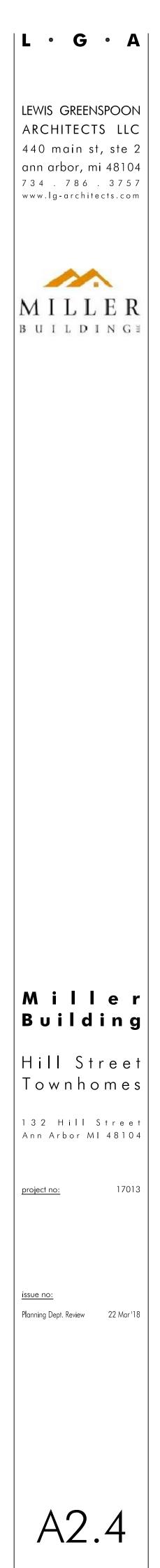




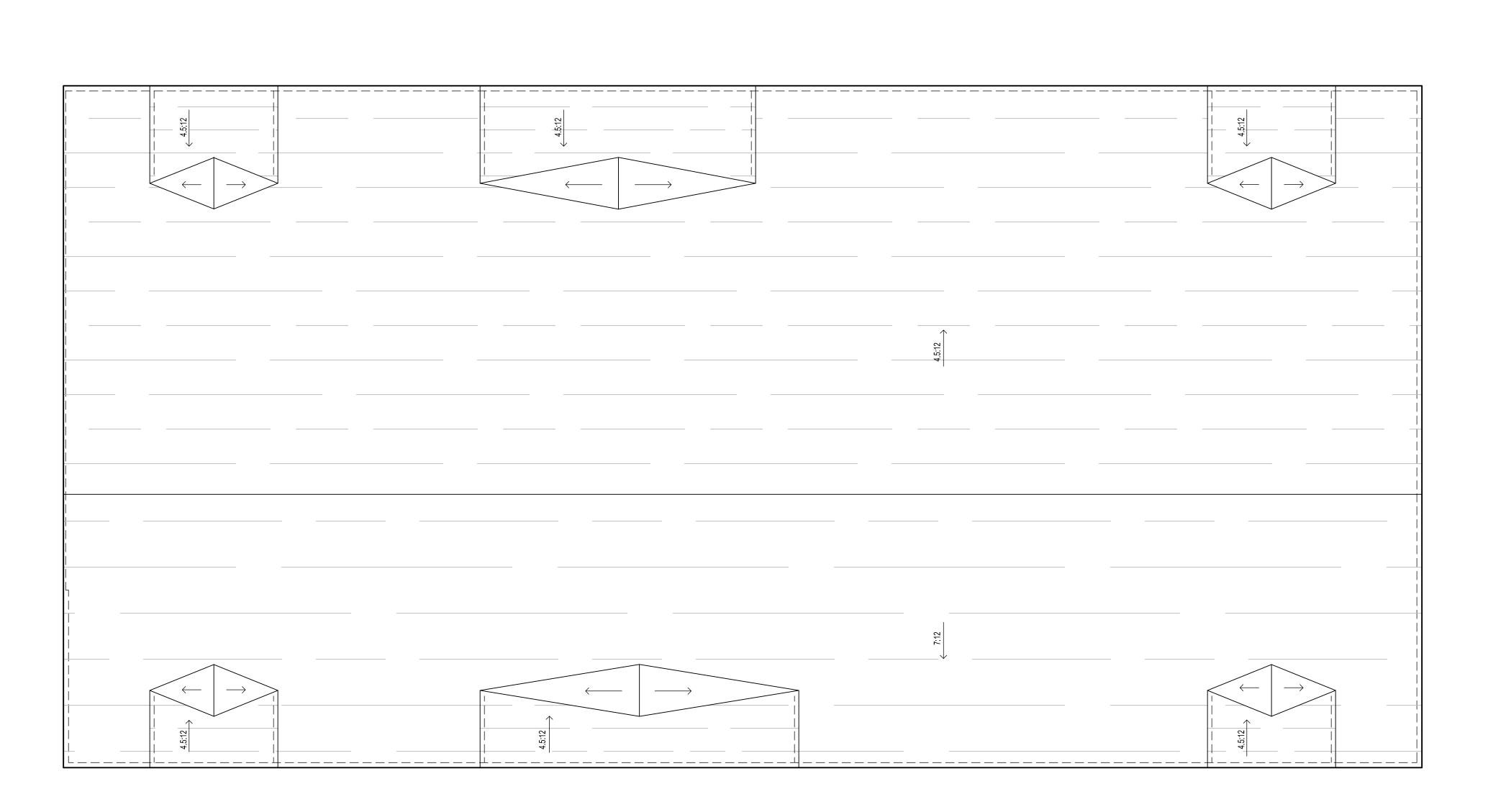


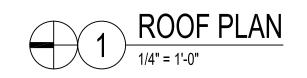






THIRD FLOOR PLAN





L	•	G	٠	Α
ARC 440 ann 734	CHI mc arb	GREEN TEC uin s or, n 7 8 6 urchit	TS ni 48 . 3	LLC te 2 104 7 5 7
		L I . D		R G ≡
В ц Н і	ו נ	II Id St	ir re) g e t
	Arb	ill or M	NI 48	
<u>issue n</u> Planning		Review	22	Mar '18

ROOF PLAN





