

611 E. UNIVERSITY T2S, R6E CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN SITE PLAN

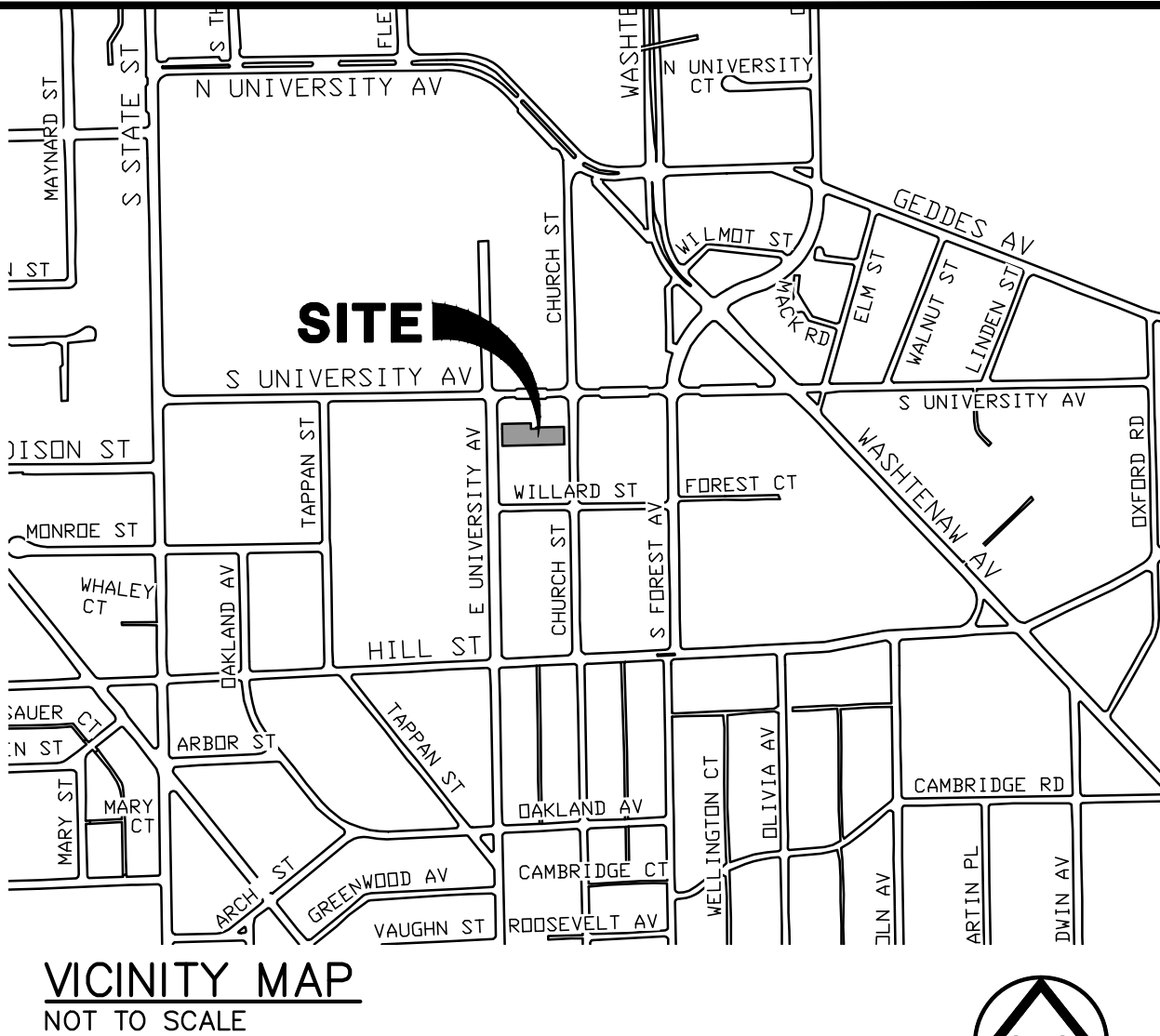
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PROJECT INFORMATION AND ANALYSIS:

1. DEVELOPMENT PROGRAM:

- (a) *Description:* the proposed development is located in the D1 - Downtown Core District, South University Character, overlay. The site has frontage on E. University Street and on Church Street, both of which are secondary frontages. The project includes removal of five existing buildings and construction of a mixed use building and a parklet. The site will be excavated to construct the foundation, a partial basement and a storm water detention chamber. The ground floor includes the lobby, leasing office, bike rooms, retail, maintenance room, trash area, fire command center and employee parking. Additional vehicular parking is provided on levels 2 and 3. A total of 56 spaces of parking are provided including 53 regular spaces, 2 barrier free spaces and 1 barrier free van space. Bike parking is provided in lockable spaces within the ground floor area of the building. Additional bike parking is provided on each street frontage. Apartments are proposed on levels 4 through 13 with a total of 90 units with 343 beds. Apartments include studio, 3, 4 and 5 bedroom units. Level 14 is the mechanical penthouse. Storm water from the building, the parklet area and a small portion of 1112 S. University will be captured and directed to a detention chamber under the ground level parking area. The chamber will discharge to the existing storm sewer in E. University Street. Sanitary sewer and water leads will connect to existing mains in E. University Street.
- (b) *Proposed Phasing and Probable Construction Cost:* the development will be constructed in one phase, beginning on or before 4/1/2017, with completion on or before 9/1/2018. The estimated construction cost is \$29,000,000.

2. COMMUNITY ANALYSIS:

- (a) *Impact on Public Schools:* the units range from studio apartments to units with 2 to 5 bedrooms. The units are designed primarily for young professionals, faculty, visiting professors, and college students. The number of children living in the building is expected to be minimal so there will be virtually no impact on public elementary and high schools.
- (b) *Relationship to Neighboring Uses:* The residential units will provide additional housing and interior parking very close to the University of Michigan Central Campus. The residents are likely to patronize existing restaurants, proposed retail, other businesses in the nearby buildings, and may attend local churches, faculty, visiting professors, and college students. The number of children living in the building is expected to be minimal so there will be virtually no impact on public elementary and high schools.
- (c) *Impact on Air and Water Quality and Existing Natural Features:* No significant impact on air and water quality is expected. There are no landmark trees on the site. There is a landmark, 16-inch caliper honyocust tree within the Church Street right-of-way that is to remain.
- (d) *Impact on Historic Sites/Structures:* The site is not located in or adjacent to a Historic District. The existing buildings are not historic structures.

3. SITE ANALYSIS:

- (a) *Existing Land Use and Site Activity:* Mixed use including: 611 E. University - one story, 995 of restaurant. 615-617 E. University - two story/13,000sf, ground floor has 2 fast food restaurants and a spinning club; second floor office. 612 Church - 2 1/2 story, 2,500 sf, leasing office and two 2-bedroom apartments. 616 Church - five 2-bedroom apartments.
- (b) *Inventory of Site Conditions:* *Soil Types:* Fox Sandy Loam (FoA), at zero to 2 percent slopes. *Vegetation:* no significant vegetation. *Topography:* the site slopes down from the east about 3 feet to the west at approximately 1.5 percent. *Description of On-Site Natural Features:* *Endangered Species Habitat:* none. *100-Year Floodplain:* none. *Landmark Trees:* none. *Steep Slopes:* none. *Extrusive Watercourses:* none. *Wetlands:* none. *Woodlands:* none.
- (c) *Existing Structures On-Site:* Mixed use including: 611 E. University - one story, 995 of restaurant. 615-617 E. University - two story/13,000sf, ground floor has 2 fast food restaurants and a spinning club; second floor office. 612 Church - 2 1/2 story, 2,500 sf, leasing office and two 2-bedroom apartments. 616 Church - five 2-bedroom apartments.
- (d) *Existing and Proposed Pathways / Access Points:* Existing site access is via public streets and sidewalks that are located on the east and west edges of the site. The primary proposed pedestrian access for residents is the entry and lobby is on E. University, at the northwest corner of the building. Secondary/emergency pedestrian entry for residents is from Church Street at the southeast corner of the site. Retail uses on each of the street frontages have direct access to the adjacent public sidewalks. Ingress/egress to the residential parking on levels 2 and 3 will be from E. University Street at the southwest corner of the site. Ingress/egress to employee parking and trash/recycling area will be from Church Street at the northeast corner of the proposed building and via the shared use drive that straddles the north property line.

- (f) *Utility Availability, Existing Rights-of-Way and Easements:* see Existing Conditions Plan. *Water main:* 12" water mains are located in the east half of E. University and on the centerline of Church Street. *Sanitary sewer - a 10" sewer* is located approximately in the center of E. University and a 10" sewer is located in the east half of Church Street. *Storm sewer - a 24" sewer* is located in the east half of E. University and a 15" sewer is located in the east half of Church Street. *General Drainage Pattern:* the site slopes from the east to the west at approximately 1.5 percent.
- (g) *SCHEMATIC DESIGN:*
- (a) *Comparison Chart of Proposed Development and City Requirements:* see the chart on the Cover Sheet.
- (b) *Existing / Proposed Topography and Limits of Soil Disturbance:* see existing topography on the Existing Conditions Plan. Proposed grading and limits of disturbance are shown on the Grading Plan.
- (c) *Orientation and General Location of Proposed Improvements:* see Dimensional Site Plan.
- (d) *Vertical Sections Resulting in Significant Change of Steep Slope:* not applicable.
- (e) *Proposed Circulation Patterns On-Site:* see Dimensional Site Plan and Architectural Plans. Primary pedestrian access for residents is at the northwest corner of the building. Secondary pedestrian access is provided at the southeast corner of the building.

- (f) *Proposed Lot and Setback Lines:* see Dimensional Site Plan.
- (g) *Disturbance of Natural Features and Proposed Mitigation Measures:* No regulated natural features exist on site. There are no landmark trees on the site or in the adjacent street rights-of-way.
- (h) *GENERAL INFORMATION:*
- (a) *Project Name:* 611 E. University.
- (b) *Pettitioner's Name and Address:* Collegiate Development Group, 7711 Bonhomme, Suite 625, St. Louis, MO 63105.
- (c) *North Arrow and Drawing Scale:* see each sheet.
- (d) *Existing and Proposed Zoning:* D1.
- (e) *Total Floor Area (no. of dwelling units):* 133,805 sf gross including 130,204 sf residential/90 units, leasing and amenity area, and 3,601 sf retail.
- (f) *Proposed Building Height:* 150 feet maximum.
- (g) *Statement of Interest:* the properties are under sales contract. A letter of authorization to submit the site plan has been provided.
- (h) *Map of Applicant's Contiguous Land Holdings in Proposed Development Area:* the applicant has no additional land holdings in the proposed development area.
- (i) *Vicinity Map of Property Within 250 feet of Development:* see the Cover Sheet.
- (j) *Project Time Schedule:* start on or before 4/1/2017, and complete on or before 9/1/2018.
- (k) *Location / Identification of Public Areas/Municipal Corporation Lines in Proposed Development Area:* See Existing Conditions plan. The site is located in downtown Ann Arbor.
- (l) *Legal Description of Parcel:* See Existing Conditions plan.
- (m) *Copy of Proposed Plan in 8-1/2 x 11 format:* to be provided as pdfs.

SITE PLAN REQUIREMENTS:

- (1) The Existing Conditions Plan shows the survey as prepared by a professional land surveyor.
- (2) The Development Summary and Comparison Chart is shown on the Cover Sheet.
- (3) The number and type of dwelling units, including the number of bedrooms is shown in the Development Summary and Comparison Chart. The development program includes 56 interior parking spaces (9 spaces on the ground floor and the rest on levels 2 and 3); ground floor lobby, retail, leasing, trash, maintenance, and bike parking; 10 levels of apartments above. Apartments include studio, 3, 4 and 5 bedroom units. There are a total of 90 units with 343 bedrooms.
- (4) A parklet is proposed at the northwest corner of the site.

- (5) The site slopes down from east to west about 3 feet. The project is 13 levels with a partial basement. The maximum height is 150 feet to the top of the highest roof appearance. Scaled existing elevations of the proposed building are shown on the architectural plans.
- (6) Building context: see architectural plans.
- (7) Northeast - formerly residence, currently a real estate leasing office, and Underground Printing.
- (8) North - private service parking lot, Innovativr, PNC Bank, Oasis, South U. Pizza, and Rendezvous Hookah Lounge.
- (9) Southeast - Pizza House restaurant and Arbor Blu apartments.
- (10) Southwest - Zoragon Place apartments, Revive and Replenish retail stores.
- (11) Parking: The development has a base FAR of 400%, premium residential FAR of 285.5% for a total of 686.5% / 133,805 square feet.
- (12) The total number of parking spaces is shown in the Development Summary and Comparison Chart. 56 spaces are required for the premium residential FAR. 56 on-street interior parking spaces are provided including 9 spaces on the ground floor and 47 additional spaces on the second and third levels.
- (13) Residential use is 130,204 sf. Retail use is 3,601 sf.
- (14) 53 bike parking spaces are required. 63 spaces are provided including 53 Class A bike parking spaces are provided in the bike room on the ground floor level of the building. 6 Class C spaces on the E. University Street frontage and 4 Class C spaces on the Church Street frontage.
- (15) Storm water runoff from the building and site areas will be collected in a detention chamber in the basement level of the building. The chamber will discharge to the existing storm line in Church Street.
- (16) Proposed setbacks are shown on the Dimensional Site Plan and in the Development Summary and Comparison Chart on the Cover Sheet.
- (17) No fencing is proposed. A screen wall is provided around the transformer in the northwest portion of the site. This enclosure is sized to accommodate a second transformer for the parcels to the north if/when they are redeveloped.
- (18) Trash management systems.

- (19) Per discussion with City staff, the best concept for this particular location is for service vehicles to drive straight in from Church Street and pick up the dumpsters without making any turns and then back straight out. Bollards will be provided adjacent to the proposed building. Mirrors will be provided at the northeast corner of the building. No parking signs will be posted on the joint use drive. A minimum of 25 foot overhead clearance will be provided.
- (20) There are two solid waste management systems on site, one for 611 E. University trash and recycling, and one for Pizza House recycling.
- (21) The 611 E. University trash will be collected via a vertical chute that leads to a mini compactor in the ground floor trash room. The trash dumpsters will be 2 cy units on wheels. Staff will push them out into the shared driveway for pick up.
- (22) The mini compactor will also have two 4-cy dumpsters on wheels for recycling.
- (23) Pizza House will also use the trash compactor in the 611 E. University trash room and will have one 2-cy trash dumpster on wheels. Pizza House will have two 4-cy recycling dumpsters on wheels in the ground level parking area and a grease container.
- (24) See the chart for preliminary trash and recycle pick up schedule.
- (25) Frequency of pickup will be adjusted as necessary.
- (26) Existing structures and driveway curb cuts adjacent to the property are shown on the Existing Conditions Plan.
- (27) Existing and proposed topographic contours are shown on the grading plan.
- (28) Proposed landscaping in compliance with Chapter 62 is shown on the Landscape Plan.
- (29) Soil Erosion Control is shown on the Soil Erosion Control Plan.
- (30) A Drainage Area is the entire site.
- (31) Existing and proposed driveways and curb cuts are shown with dimensions on the Dimensional Site Plan.
- (32) Existing water mains, sanitary sewer mains, and storm sewer lines are shown on the Existing Conditions Plan. Proposed water, sanitary and storm leads are shown on the Utility Plan.
- (33) A street tree escrow is to be provided as shown on the Landscape Plan.
- (34) Landscape Requirements. The E. University streetscape includes proposed street trees and perennials in curved planting beds, concrete sidewalks, bike racks and existing pedestrian lighting. The Church Street streetscape is designed to be similar to the recently completed adjacent Pizza House/Arbor Blu streetscape and includes existing street trees and proposed perennial plantings in curved landscape beds, concrete and brick paver sidewalks, bike racks, and existing pedestrian lighting.
- (35) The Traffic Impact Analysis submitted separately indicates that no street improvements are necessary. The proposed mixed use project provides more parking spaces than are currently on the site.
- (36) An archaeological survey is to follow if required.
- (37) Natural Features:
- (38) Soils: The site is a previously disturbed, previously developed area. The general soils in this area are Fox Sandy Loam (FoA), and Fox Sandy Loam (FoA) at 0 to 2 percent slope. Permeability is moderate. Runoff is slow. The depth to water table is more than 5 feet. Per discussion with the City, the Soil Boring Logs from the adjacent Pizza House/Arbor Blu and Zoragon Place projects are sufficient to determine the soils for the 611 E. University project. Those borings and logs are shown on sheet 2.
- (39) (a) The limits of soil disturbance are shown on the Overall Grading Plan. The entire site is to be disturbed. E. University Street is to be disturbed for disconnection of existing services and for construction of proposed water and sanitary sewer leads. Church Street is to be disturbed for disconnection of existing services and construction of the proposed storm sewer outlet.
- (40) (b) There is no endangered species habitat on the site.
- (41) (c) There is no 100-year flood plain on the site.
- (42) (d) There are no Landmark trees on the site or within the adjacent street frontages.
- (43) (e) There are no steep slopes on the site. The high point is near the northeast corner of the site. The site slopes approximately 4 feet down to the east and north. The low point is at the northeast corner of the site.
- (44) (f) The adjacent waterways and streets do not drain onto the project site.
- (45) (g) There are no wetlands on the site.
- (46) (h) Natural Features Open Space: not applicable.
- (47) (i) Natural Features Statement of Impact: not applicable.

SITE SUMMARY NOTES:

The proposed development will comply with the following off-street parking regulations for buildings that exceed the normal maximum permitted useable floor area:

No off-street motor vehicle parking is required in the special parking district for structures which do not exceed the normal maximum permitted useable floor area or for structures zoned PUD with useable floor area which does not exceed 400 percent of the lot area. Structures which exceed the normal maximum useable floor area by providing floor area premiums, or PUD-zoned structures that exceed 400 percent of lot area, shall provide parking spaces for the useable floor area in excess of the normal maximum permitted. This parking shall be provided at a rate of 1 off-street parking space for each 1,000 square feet of useable floor area.

The amount of Useable Floor Space above the normal maximum permitted floor area is 55,729.8 SF / 1,000 = 55.73 spaces required. 0.36 parking spaces are required for the proposed retail area. 56 total parking spaces are provided. 9 spaces are on the ground level, and 47 additional spaces are provided on the second and third levels.

The proposed development will comply with the following bicycle parking regulations for buildings in the D1 Zoning District:

Off-street bicycle parking is required for residential uses in the special parking district at a rate of 1 off-street bicycle space for each 2,500 square feet of useable floor area and shall be provided in compliance with the requirements of Section 5-168.1 for Class A spaces. Off-street bicycle parking is required for non-residential uses in the special parking district at a rate of 1 off-street bicycle parking space for each 10,000 square feet of useable floor area and shall be provided in compliance with the requirements of Section 5-168.1 for Class C spaces.

The Useable Floor Area of the building is 133,805 SF residential / 2,500 = 52.08 Class A bike spaces required and 3,601 SF non-residential / 10,000 SF = 0.36 Class C bike spaces required. A total of 52.44 spaces are required. 63 bike spaces are provided, including 53 Class A resident spaces in the bike rooms on the ground floor of the building, 6 Class C spaces on the E. University frontage, and 4 Class C spaces on the Church Street frontage.

The proposed development will comply with the following Residential Use Premium Requirement:

Residential Use Premium. In D1 and D2 districts, 0.75 square foot of floor area in excess of the normal maximum useable floor area in percentage of lot area shall be allowed for each square foot of floor area, regardless of location within the building, that is used for multiple-family dwellings housing and that meets the standards of Chapter 105 (Housing Code).

The allowable Residential Use Premium is calculated to be the proposed floor area by (right) of 78,075.2 SF x 0.75 = 58,556.4 SF maximum. Residential Use Premium proposed is 55,729.8 SF. Maximum permitted FAR is 136,631.6 SF / 700%.

The total proposed floor area (by right) is 133,805 SF / 685.5%.

This includes 130,204 SF of allowable residential Useable Floor Area using premiums.

The proposed development will comply with the following Residential Use Premium Requirement:

Every sleeping room in the building shall have at least 1 window, sliding glass door, skylight, or other acceptable light transmitting media facing directly to the outdoors. The minimum total glazed area for every sleeping room shall be not less than 8% of the habitable floor area of such room. If dwelling units constitute a portion of a mixed use building, dwelling units must be completed and receive a certificate of occupancy in advance or at the same time as the certificate of occupancy for nonresidential use, or the property owner shall provide a performance bond for the residential use at the time the certificate of occupancy is requested, subject to the requirements of Chapter 57.

The proposed development will comply with the following:

As a condition of receiving the additional floor area through a premium option, the building must comply with the following energy efficiency standards for the construction of all new floor area:

1. A minimum of two points must be achieved under the U.S. Green Building Council Leadership in Energy and Environmental Design (LEED) Energy & Atmosphere Credit No. 1. The most recent version in effect at the time of site plan approval shall be applied.

2. Compliance with this requirement shall be verified and documented by the property owner using an industry standard software energy modeling tool (EQUEST or equivalent) prior to the issuance of building permits.

Industry standard software energy modeling data will be utilized by our Mechanical Engineer to document our compliance and submitted for approval as part of our building permit application.

DEVELOPMENT SUMMARY AND COMPARISON CHART

	Required / Permitted	Proposed
Site Area:	None	0.44 ac/19,518.8 sf
Lot Width:	None	E University St.: 88.10 ft Church St.: 70.96 ft
Zoning:	D1	D1
Character District:	South University	South University
Street Frontage Type:	Secondary (both)	Secondary (both)
Land Use:	Apartments/Parking/Retail	Apartments/Parking/Retail
		3,601 sf retail
		90 Units, 207 dua
		343 bedrooms total / 780 bra
		1 bldg: partial basement;
		underground storm detention
		ground level: lobby, leasing, retail, trash,
		bike parking and employee parking;
		resident parking on levels 2 and 3;
		11 levels apartments above;
		fully fire suppressed
Proposed Building:		
Floor Area:	136,631.6 sf max. / 700%	133,805 gsf/685.5%
Floor Area Ratio:	78,075.2 sf / 400%	(130,204 sf resid., 3,601 sf retail)
Residential Premiums:	58,556.4 sf max / 300%	55,729.8 sf / 285.5%
Streetwall Height:	2 stories min., 3 stories max.	3 stories
Offset at Top of Streetwall:	5 ft average	west: 5 ft east: 12.25 ft min.
Unit Types/No.s:		See chart on architectural plans
Vehicular Parking:		
55,729.8 sf residential	55.73 spaces	9 on ground floor
floor area premium		47 spaces on levels 2 and 3 (includes 2 bf and 1 bvf)
		0.62 per unit, 0.16 per bedroom
3,601 sf Retail	0.36 spaces	
Total Vehicular Parking	56.09 / 56 spaces	56 total spaces
Bicycle Parking*:		
Residential @ 1,250 sf	52.08 Class A	53 Class A (interior)
Retail @ 1,10,000 sf	0.36 Class C	10 Class C (exterior)
Total Required	52 Class A, 1 Class C	63 spaces; 0.69 per unit
Setbacks:	Front (west): 0 ft min, 10 ft max. Front (east): 0 ft min, 10 ft max.	Front (west): 0 ft min. Front (east): 5 ft
	Side (north): 0 ft	Side (north): 9.96 ft min.
	Side (south): 0 ft	Side (south): 0 ft min.
	Side (east @ bike room)	Side (east): 0 ft
Building Height:	30+ ft existing	150 ft maximum
	150 ft max. permitted	
Impervious Surface	19,348 sf existing / 99%	19,518.8 sf proposed/100%
Penious Surface	171 sf / 1%	0 sf / 0%

* Bicycle parking includes- 53 Class A inside the bike rooms on the ground floor of the building; 6 Class C spaces on the E. University frontage and 4 Class C spaces on the Church St. frontage.

611 E. UNIVERSITY
Zoned D1, Downtown Core District
S. University Character District
E. University and Church Street are Secondary Frontages

DOWNTOWN STREET DESIGN MANUAL REQUIREMENTS AND RESPONSE

E. UNIVERSITY STREET:
Frontage Context - Commercial
Functional Emphasis - Balanced
Required - sidewalks and pedestrian areas, curb ramps, and corner bumpouts. On-street parking is encouraged for commercial support.
Provided - sidewalks and pedestrian areas including concrete walk, street trees, curbed landscape area and bike racks. There is on-street parking on both sides of E. University Street. The loading zone in the location of the proposed resident parking entry that will be shifted north.

CHURCH STREET:
Frontage Context - Commercial
Functional Emphasis - Balanced
Required - sidewalks and pedestrian areas, curb ramps, and corner bumpouts. On-street parking is encouraged for commercial support.
Provided - sidewalks and pedestrian areas including concrete and brick sidewalk, existing street trees in enlarged, curbed landscape beds, bike racks, and existing street lighting. There is on-street parking only on the east side of Church Street.

GENERAL NOTES:

- Per Chapter 49, Section 4-58 of the City of Ann Arbor code, "all sidewalks are to be kept and maintained in good repair by the owner of the land adjacent to and abutting the same." Prior to issuance of the final certificate of occupancy for this site, all existing sidewalks must be repaired in accordance with City of Ann Arbor standards.
- "The construction covered by these plans shall conform to the City of Ann Arbor public services department standard specifications which are included by reference."
- "The omission of any standard details does not relieve the contractors of their obligation to construct items in complete accordance with Public Services Department standard specifications."
- The parcels will be combined prior to submitting any permit request.
- Trash and recycle pickup is to be public.

SHEET INDEX

SHEET NUMBER SHEET TITLE

- C1 COVER SHEET
C2 REFERENCE SOIL BORING LOGS
C3 EXISTING CONDITIONS
C4 REMOVALS
C5 DIMENSIONAL SITE PLAN
C6 GRADING & SOIL EROSION CONTROL PLAN
C7 UTILITY, STORM WATER MANAGEMENT & FIRE PROTECTION PLAN
C8 DDA DETAILS
C9 DDA & MISCELLANEOUS SITE DETAILS
L1 LANDSCAPE PLAN
AO-01 BASEMENT TO 2ND FLOOR PLANS
AO-02 3RD TO 12TH FLOOR PLANS
AO-03 13TH TO PENTHOUSE PLANS
AO-04 BUILDING ELEVATIONS
AO-05 BUILDING ELEVATIONS

611 E. UNIVERSITY

JOB No.	16028	DATE:	3/28/16
REVISIONS:		REV. DATE:	
		SHEET	1 OF 15
		CADD:	DAG
		ENG:	JCA
		PM:	SWB
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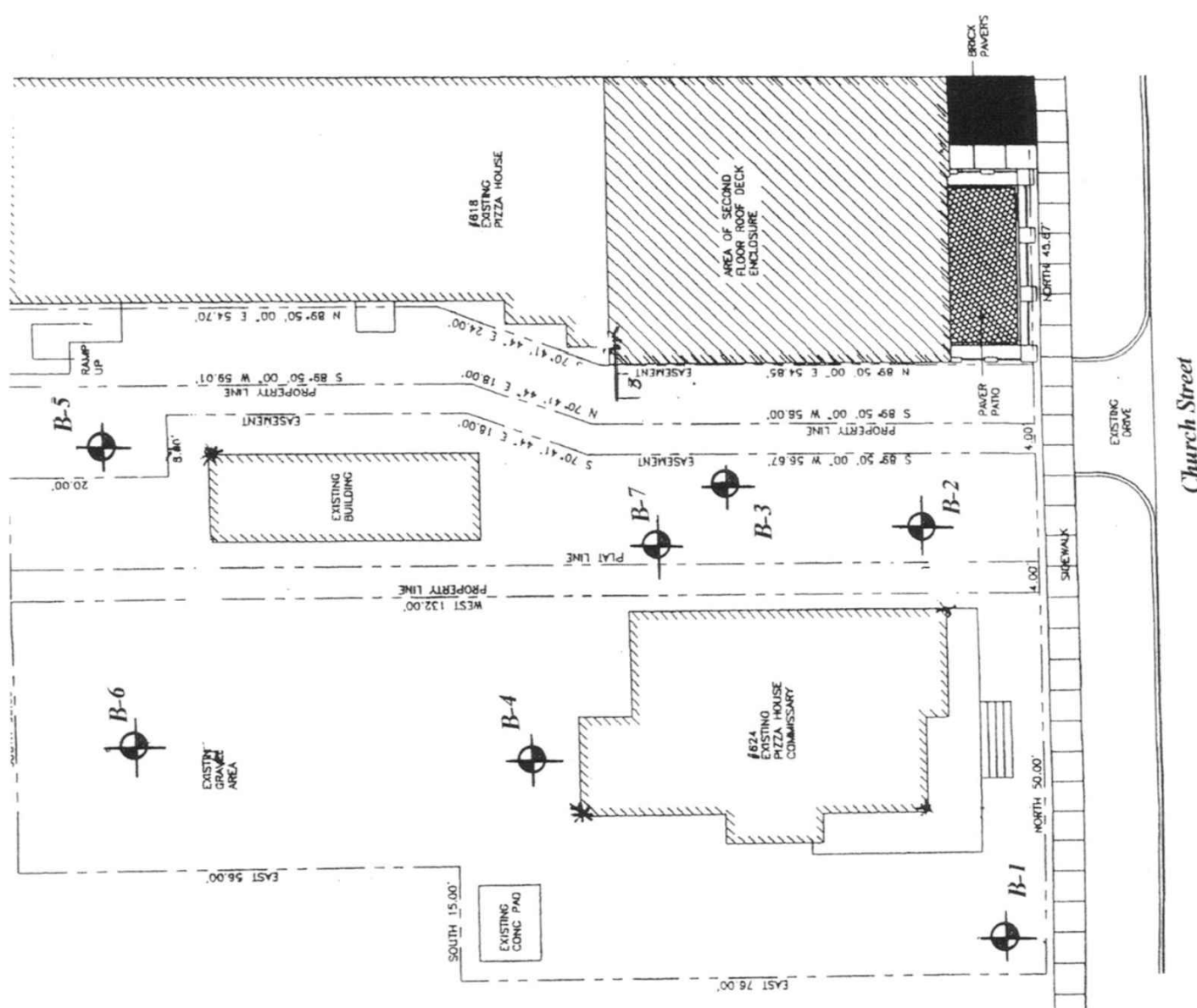
SCOTT BETZOLDT
P.E. #

SCHEMATIC SOIL BORING LOCATION PLAN

Proposed Pizza House Addition
Ann Arbor, Michigan

FIGURE
1

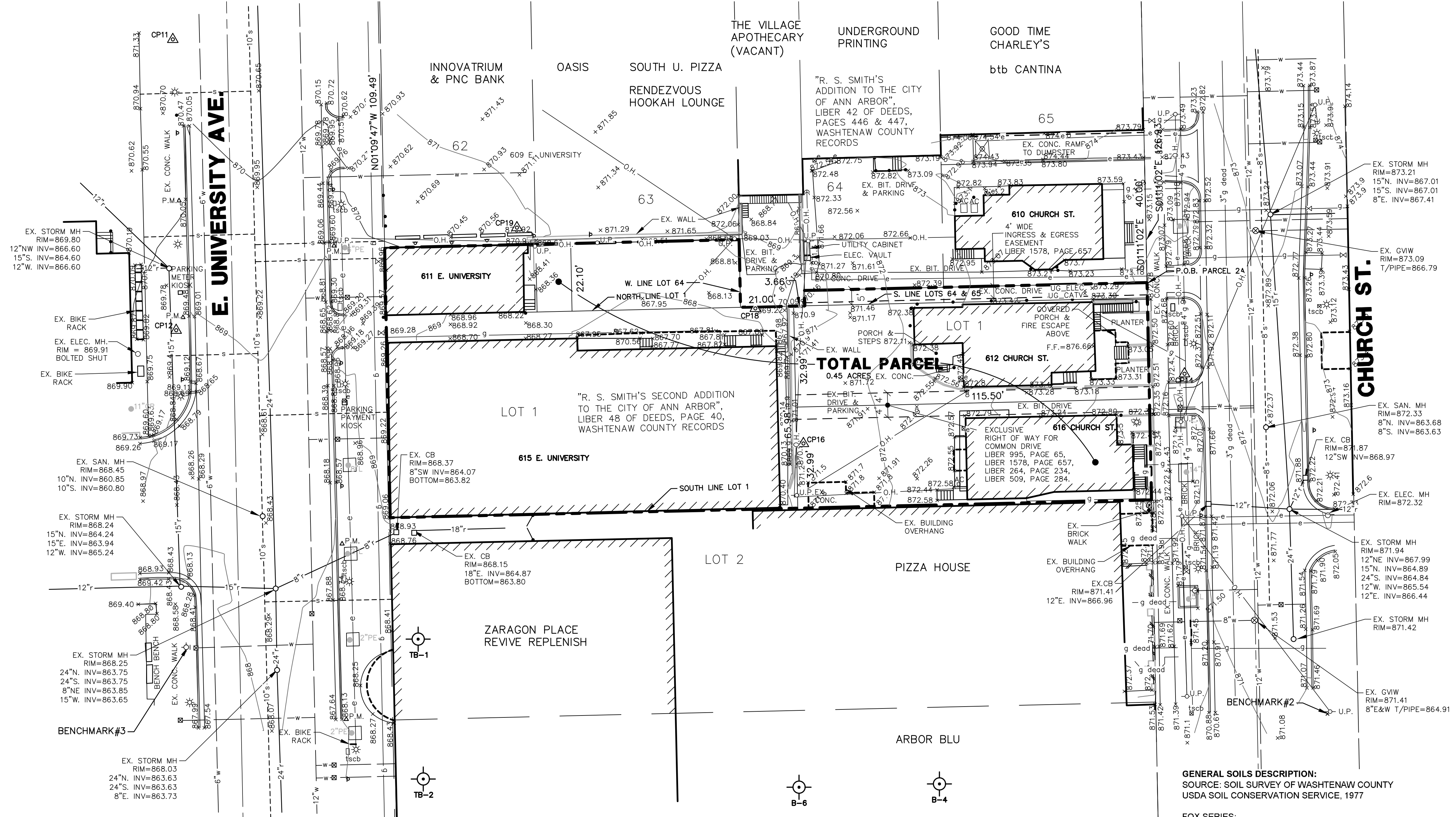
Project Number 04-1116 Scale 1" = 20' +/-



TES CONSULTANTS, P.C.

PROJECT: The Pizza House Addition			TES CONSULTANTS, P.C. 23943 Industrial Park Drive Farmington Hills, MI 48335	
CLIENT: The Pizza House				
LOCATION: Ann Arbor, Michigan				
TES PROJECT #: 04-1116			BORING LOG # B-1	
Sample No./Type	Sample Depth Recovery %	Description of Material	Moisture Content Percent Standard Penetration Test Blows per Foot	Unconfined Compressive Strength Tons per Square Foot
			10 20 30 40 50	0.5 1.0 1.5 2.0 3.0 4.0 5.0
		G.S. Elev.		
SS-1	0	Order reported sand and gravel fill		
	1	SILTY FINE TO MEDIUM SAND FILL		
	2	trace clay and gravel - very loose - moist - dark brown (SM-SP)		
SS-2	3			
	4			
SS-3	5			
	6			
SS-4	7	SILTY FINE TO MEDIUM SAND		
	8	trace gravel - loose to very loose - moist - brown (SM)		
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SS-5	11			
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SS-6	19	FINE TO MEDIUM SAND		
	20	trace silt and gravel - medium dense - moist - brown (SP-SM)		
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SS-7	25			
	26	End of Borehole		
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LEGAL DESCRIPTION

FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. NCS-769473-STLO, DATED DECEMBER 18, 2015
611 E. University:

The Southerly 22.1 feet of the South 1/2 of Lots 62 and 63, except the Easterly 55 feet of Lot 63, Ransom S. Smith's Addition to the City of Ann Arbor, according to the plat thereof as recorded in Liber 42 of Deeds, Page 446, Washtenaw County Records.

FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. NCS-774639-STLO, DATED JANUARY 21, 2016
615 E. University:

Lot 1, Block 1, Excepting and reserving therefrom the East 7 rods of said Lot 1, R.S. Smith's Second Addition to the City of Ann Arbor, according to the recorded plat thereof as recorded in Liber 48 of Deeds, Page 40, Washtenaw County Records.

The East 55 feet of the South 22 feet and 1 inch of the South half of Lot 63, Ransom S. Smith's Addition to the City of Ann Arbor, according to the recorded plat thereof as recorded in Liber 42 of Deeds, Page 446, Washtenaw County Records.

FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. NCS-769474-STLO, DATED DECEMBER 15, 2015
612 Church

The North 1/2 of the East 7 rods of Lot 1, in Block 1, of R. S. Smith's Second Addition to the City of Ann Arbor, according to the plat thereof, as recorded in Liber 48 of Deeds, Page 40, Washtenaw County Records. Reserving a right of way over the South 4 feet of the land herein described and granting a right of way over a strip 4 feet wide, along the South side and next adjoining land herein described. Also the South 5 feet of the East 111 feet of Lots 64 and 65, according to the Plat of Smith's Addition to the City of Ann Arbor, as recorded in Liber 42 of Deeds, Page 446, Washtenaw County Records.

FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. NCS-769477-STLO, DATED DECEMBER 16, 2015
616 Church

The South 1/2 of the East 7 rods of Lot 1, Block 1 of R. S. Smith's Second Addition to the City of Ann Arbor, according to the plat thereof as recorded in Liber 48 of Deeds, Page 40, Washtenaw County Records.

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

TOTAL PARCEL BOUNDARY BEING DESCRIBED AS:

Commencing at the NE Corner of Lot 65 of "R.S. Smith's Addition to the City of Ann Arbor", as recorded in Liber 42 of Deeds, Pages 446 & 447, Washtenaw County Records, thence S 01°11'02" E 126.93 feet along the East line of said Lot 65 and along the West line of Church Street (66.00 feet wide) to the Point of Beginning:

thence continuing S 01°11'02" E 70.96 feet along the East line of said Lot 65 and the East line of Lot 1 of "R. S. Smith's Second Addition to the City of Ann Arbor" as recorded in Liber 48 of Deeds, Page 40, Washtenaw County Records and along said West line of Church Street;

thence S 88°40'01" W 248.60 feet along the South line of said Lot 1;

thence N 01°09'47" W 88.10 feet along the West line of said Lot 1 and along the West line of Lot 62 of said "R.S. Smith's Addition to the City of Ann Arbor" and along the East line of East University Avenue (variable width);

thence N 88°40'32" E 115.73 feet;

thence S 01°10'20" E 22.10 feet along the West line of Lot 64 of said "R.S. Smith's Addition to the City of Ann Arbor";

thence N 88°40'32" E 21.00 feet along the South line of said Lot 64;

thence N 01°10'41" W 5.00 feet;

thence N 88°40'32" E 111.84 feet to the Point of Beginning. Being a part of the E 1/2 of the SW 1/4 of Section 28, T2S, R6E, City of Ann Arbor, Washtenaw County, Michigan and containing 0.45 acres of land, more or less. Being subject to easements and restrictions of record, if any.

EXCEPTIONS:

THIS SURVEY WAS PREPARED USING THE FOLLOWING FIRST AMERICAN TITLE INSURANCE COMPANY, TITLE COMMITMENTS:

611 E. UNIVERSITY COMMITMENT NCS-769473-STLO, WITH AN EFFECTIVE DATE OF DECEMBER 18, 2015.

SCHEDULE B(2):
EXCEPTIONS 6 THROUGH 15: NOT A SURVEY MATTER

615 E. UNIVERSITY COMMITMENT NCS-774639-STLO, WITH AN EFFECTIVE DATE OF JANUARY 21, 2016.

SCHEDULE B(2):
EXCEPTIONS 6 THROUGH 9: NOT A SURVEY MATTER

612 S. CHURCH COMMITMENT NCS-769474-STLO, WITH AN EFFECTIVE DATE OF DECEMBER 15, 2015.

SCHEDULE B(2):
EXCEPTION 6: INTEREST OF ANN ARBOR TRUST COMPANY, TRUSTEE UNDER AGREEMENT DATED DECEMBER 6, 1976, PURSUANT TO QUIT CLAIM DEED RECORDED FEBRUARY 17, 1977 IN LIBER 1582, PAGE 514 (AS TO LOTS 64 AND 65) - PLOTTED

EXCEPTION 7: THE TERMS, PROVISIONS AND EASEMENT(S) CONTAINED IN THE DOCUMENT ENTITLED "WARRANTY DEED" RECORDED JULY 16, 1962 AS LIBER 995, PAGE 65 OF OFFICIAL RECORDS - PLOTTED

EXCEPTION 8: THE TERMS, PROVISIONS AND EASEMENT(S) CONTAINED IN THE DOCUMENT ENTITLED "AFFIDAVIT OF LAND CONTRACT" RECORDED JANUARY 11, 1977 AS LIBER 1578, PAGE 657 OF OFFICIAL RECORDS. - PLOTTED

EXCEPTION 9: NOT A SURVEY MATTER

616 S. CHURCH COMMITMENT NCS-769477-STLO, WITH AN EFFECTIVE DATE OF DECEMBER 16, 2015.

SCHEDULE B(2):
EXCEPTIONS 6 THROUGH 13 - NOT A SURVEY MATTER

EXCEPTION 14: THE TERMS, PROVISIONS AND EASEMENT(S) CONTAINED IN THE DOCUMENT ENTITLED "WARRANTY DEED" RECORDED JULY 26, 1926 AS LIBER 264, PAGE 234 OF OFFICIAL RECORDS - PLOTTED

EXCEPTION 15: THE TERMS, PROVISIONS AND EASEMENT(S) CONTAINED IN THE DOCUMENT ENTITLED "WARRANTY DEED" RECORDED APRIL 15, 1949 AS LIBER 509, PAGE 284 OF OFFICIAL RECORDS - PLOTTED

EXCEPTION 16: NOT A SURVEY MATTER

GENERAL SOILS DESCRIPTION:
SOURCE: SOIL SURVEY OF WASHTENAW COUNTY
USDA SOIL CONSERVATION SERVICE, 1977

FOX SERIES:
Well drained, nearly level to steep soils formed in loamy textured and sandy textured gravelly sand. These soils are on outwash plains, kames, valley trains, terraces, and moraines. Available water capacity and permeability is moderate.

FoA- FOX SANDY LOAM, 0 TO 2 PERCENT SLOPES; CLASS B
This soil is slightly droughty and runoff is slow. Depth to seasonal high water table is >5 feet.

Per discussion with the City's stormwater review, the soil boring reports for the adjacent Zaragon Place & Pizza House/Arbor Blu development at 618-624 Church Street are sufficient for this project. Those borings show all sand to a depth of approximately 54 feet.

USGS HYDROLOGICAL SOILS CATEGORIZATION shows FoA as Class B soil with an average 1/2 inch per hour infiltration. The proposed project includes excavation and disposal of approximately 10 feet of soil for construction of the foundation, partial basement and storm water detention chamber.

BENCHMARK:

- 1) SET BM-TOP/NORTH CORNER ON PLAQUE IN SIDEWALK AT ENTRANCE TO "GOOD TIME CHARLEY'S". ELEVATION=874.33 NAVD 88.
- 2) SET BM-W. SIDE OF UTILITY POLE ON E. SIDE OF CHURCH ST. IN FRONT OF HOUSE #621. ELEVATION=876.39 NAVD 88.
- 3) SET BM-TOP/NUT OF HYDRANT ON W. SIDE OF E. UNIVERSITY ST. IN FRONT OF UNIVERSITY HIGH SCHOOL AND ACROSS FROM ZARAGON PLACE. ELEVATION=870.66 NAVD 88.

NOTES:

- 1) THE LEGAL DESCRIPTION DESCRIBES THE SAME PROPERTY AS INSURED IN THE TITLE COMMITMENT OR ANY EXCEPTIONS HAVE BEEN NOTED HEREIN.
- 2) SAID PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION "X" BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, ON FLOOD INSURANCE RATE MAP NO. 26161C0283E, WITH AN EFFECTIVE DATE OF APRIL 3, 2012.
- 3) LOCATION OF EXIST. UNDERGROUND WATER MAIN, GAS MAIN, ELECTRIC AND TELEPHONE LINES WERE OBTAINED FROM MUNICIPAL RECORDS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION. BEFORE YOU DIG CALL MISS DIG 811

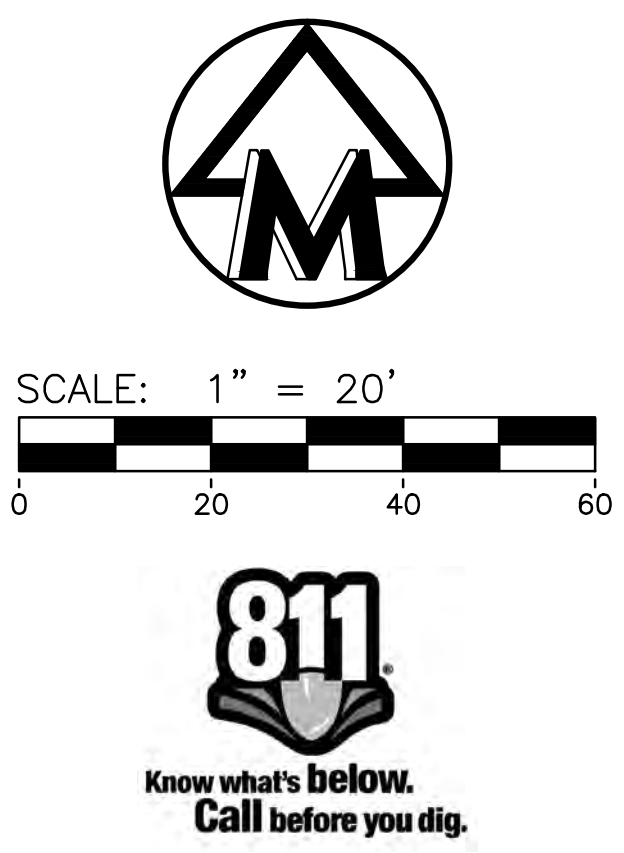
To: _____ and
First American Title Insurance Company:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 2, 3, 4, 7a, 7b, 7c, 8, 9, 10, 11a, 13, 16, 18 and 19 of Table A thereof. The field work was completed on December 9, 2014.

MIDWESTERN CONSULTING, LLC

By: _____
Patrick L. Hastings, P.S. No. 37277

Date: 3/28/16



LEGEND

- 838 EXIST. CONTOUR
- x 836.2 EXIST. SPOT ELEVATION
- U.P. EXIST. UTILITY POLE
- O.H. EXIST. OVERHEAD UTILITY LINE
- * EXIST. LIGHT POLE
- e EXIST. ELECTRIC LINE
- g EXIST. GAS LINE
- c EXIST. COMMUNICATION LINE
- w EXIST. WATER MAIN
- EXIST. HYDRANT
- EXIST. GATE VALVE IN BOX
- EXIST. GATE VALVE IN WELL
- EXIST. CURB STOP & BOX
- r EXIST. STORM SEWER
- EXIST. CATCH BASIN OR INLET
- EXIST. SANITARY SEWER SIGN
- P.M. PARKING METER
- 85.5 ELECTRIC METER
- POST
- FENCE
- SINGLE TREE
- △ FOUND MONUMENT
- CONTROL PT.
- TRAFFIC SIGNAL CONTROL BOX
- EXIST. GAS SHUT OFF

MIDWESTERN CONSULTING

3845 Plaza Drive Ann Arbor, Michigan 48108
(734) 995-0200 • www.midwesternconsulting.com
Land Development • Land Survey • Institutional • Municipal
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CLIENT

COLLEGIATE DEVELOPMENT GROUP
7711 BONHOMME AVE., SUITE 625
ST. LOUIS, MO 63105
ATTN: BRAND STILES
PH: (314) 721-5559

611 E. UNIVERSITY

SITE PLAN
EXISTING CONDITIONS

16028

JOB No.

REVISIONS:

DATE: 3/28/16

SHEET 3 OF 15

ENG: JCA

ADD: JCA

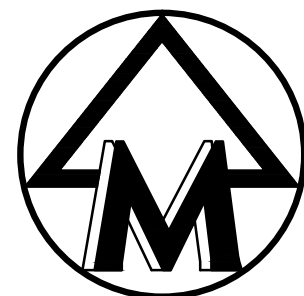
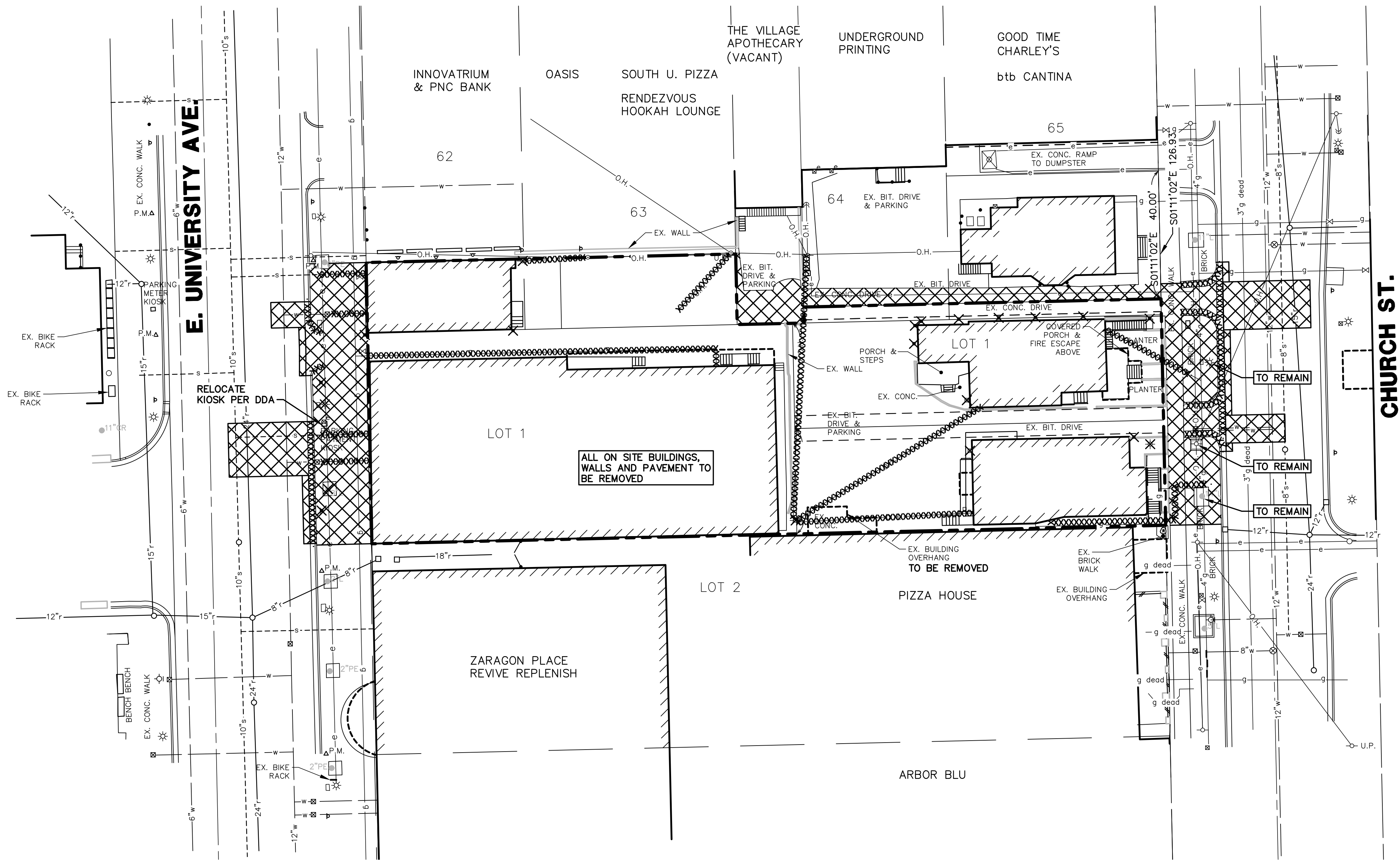
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The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.



SCALE: 1" = 20'



0 20 40 60



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

LEGEND

	EXIST. UTILITY POLE
	EXIST. OVERHEAD UTILITY LINE
	EXIST. LIGHT POLE
	EXIST. ELECTRIC LINE
	EXIST. GAS LINE
	EXIST. COMMUNICATION LINE
	EXIST. WATER MAIN
	EXIST. GATE VALVE IN BOX
	EXIST. GATE VALVE IN WELL
	EXIST. CURB STOP & BOX
	EXIST. STORM SEWER
	EXIST. CATCH BASIN OR INLET
	EXIST. SANITARY SEWER
SIGN	
	PARKING METER
	ELECTRIC METER
	POST
	FENCE
	SINGLE TREE
	FOUND MONUMENT
	CONTROL PT.
	TRAFFIC SIGNAL CONTROL BOX
	EXIST. GAS SHUT OFF
PAVEMENT REMOVALS	
	PAVEMENT REMOVALS
REMOVALS	
	REMOVALS

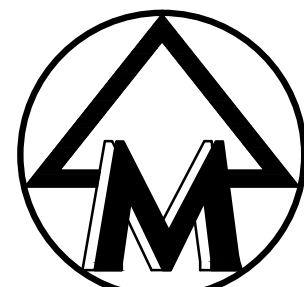
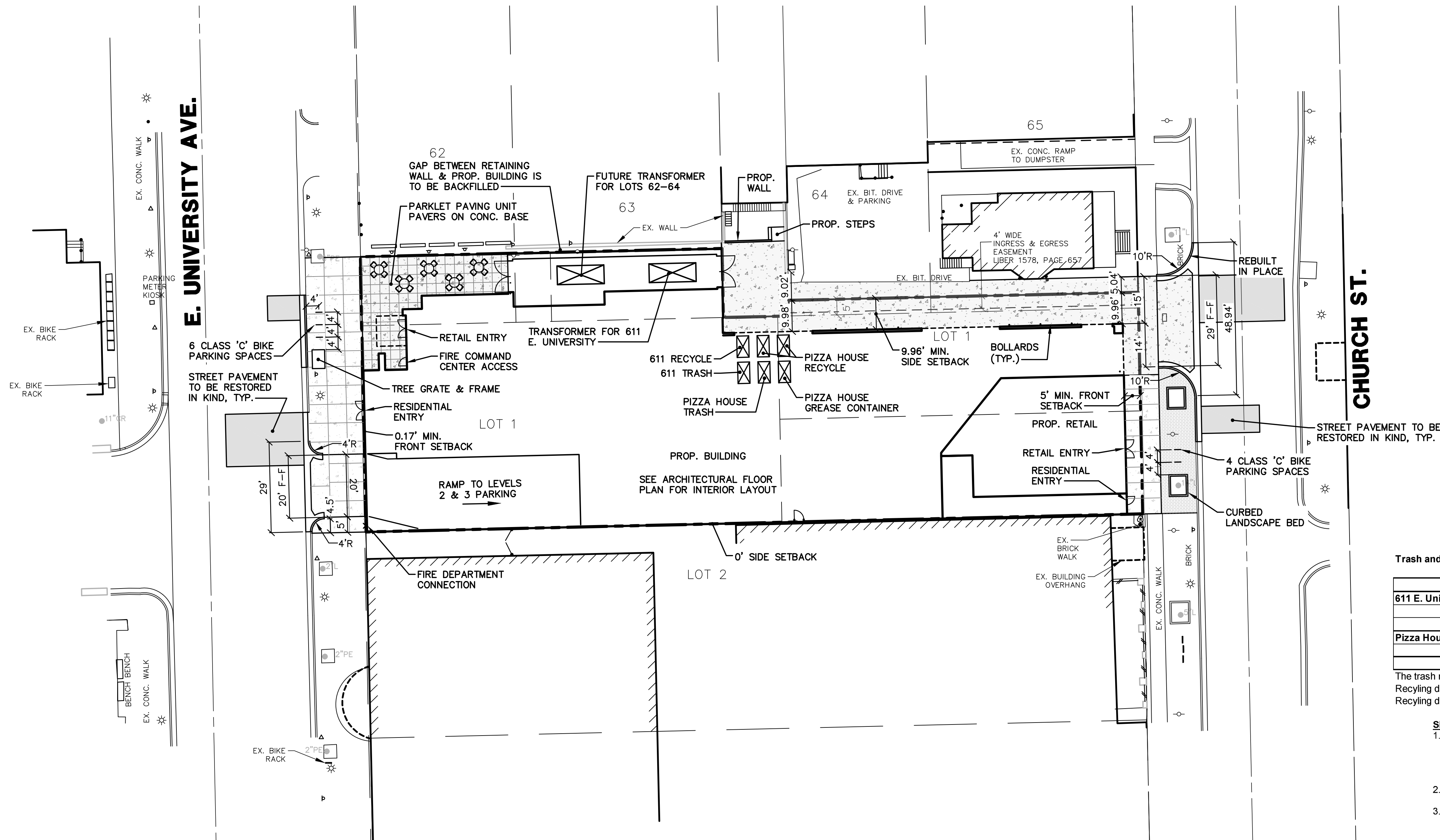
Natural Features Statement of Impact (Chapter 57, Section 5:126)

- (1) A Site Inventory Identifying the Location of Existing Natural Features and a Written Description of Their Quality, Character, and Health:
 - (a) Natural Features and Alternative Plans: There are no steep slopes, woodlands, wetlands, or floodplains on the site. There are no Landmark Trees on-site.
 - (b) Natural Features Protection Plan Identifying Natural Features to be Preserved: Not Applicable.
 - (c) Landmark Tree Inventory and Analysis: There are no landmark size trees on or within the adjacent street frontages.
- (2) A Natural Features Protection Plan Identifying Natural Features to be Preserved: Not Applicable.
- (3) Alternatives Analysis Report for Natural Features that are Proposed to be Disturbed: Not Applicable.


Removal Plan Notes:

1. ASCE 38-02 quality level survey involves surveying visible above ground utility facilities such as manholes, valve boxes, posts, etc., and correlating this information with existing utility records. When using this information, it is not unusual to find that many underground utilities have been either omitted or erroneously plotted.
2. Existing easements are to be relocated or vacated as required.
3. E. University Street and Church Street are under the jurisdiction of the City of Ann Arbor. All work within the rights-of-way is subject to a permit from the City.
4. All existing on-site easements are to be vacated or relocated as necessary per the proposed development plans.
5. The active existing sanitary service leads in E. University Street and Church Street are to be capped by the City from inside the main and per City of Ann Arbor standards.
6. The existing water service leads in E. University Street and Church Street are to be cut and capped at the main by the contractor per City of Ann Arbor standards. The Contractor and City are to verify which water service leads have already been cut and capped at the main.
7. All franchise utilities are to be removed by or per the party having jurisdiction. On street tree is to be removed on E. University Street. No street trees are to be removed on Church Street.
8. All site work is to comply with the City of Ann Arbor Standard Specifications available on line: [www.a2gov.org/departments/engineering/Documents/Table of Contents.pdf](http://www.a2gov.org/departments/engineering/Documents/Table%20of%20Contents.pdf)
9. All existing on-site improvements are to be removed.
10. During demolition of the existing structures, the contractor will be responsible for identifying any existing footing drains that are connected to the sanitary sewer. These are to be verified on site by the City prior to removal. If footing drains for the existing buildings are connected to the sanitary sewer system, disconnection will be required in accordance with current City specifications. To schedule inspection, call the City of Ann Arbor Project Management Services Unit at (734) 794-6410. Disconnection of existing footing drains may be taken as a credit against required sanitary sewer flow mitigation.

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.



SCALE: 1" = 20'











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Know what's below.
Call before you dig

LEGEND

	PROP. CURB & GUTTER
	PROP. BITUMINOUS PAVEMENT
	PROP. CONCRETE PAVEMENT
	PROP. HEAVY DUTY CONCRETE
	PROP. PAVERS
	SIGN
	EXIST. UTILITY POLE
	EXIST. LIGHT POLE
F-F	FACE OF CURB TO FACE OF CURB

Trash and Recycling Pickup Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
611 E. Univ.	2 cy trash		2 cy trash		2 cy trash	
	2 cy recycle		2 cy recycle		2 cy recycle	
Pizza House	2 cy trash			2 cy trash		2 cy trash
	4 cy recycle		4 cy recycle	4 cy recycle	4 cy recycle	
	4 cy recycle	4 cy recycle	4 cy recycle	4 cy recycle	4 cy recycle	

The trash room has a mini compactor that accommodates a 2 cy dumpster on wheels.
Recycling dumpsters in the trash room are 2 cy dumpsters on wheels.
Recycling dumpsters within the ground level parking area are 4 cy dumpsters on wheels.

SITE PLAN NOTES:

1. Standard Sidewalk Repair and Maintenance Note per Chapter 49, Section 4.58 of the City of Ann Arbor Code: All sidewalks are to be kept and maintained in good repair by the owner of the land adjacent to and abutting the same. Prior to the issuance of the final Certificate of Occupancy for this site, all existing sidewalks in need of repair must be repaired in accordance with City standards.
2. All sidewalks constructed in the public right-of-way shall meet requirements and guidelines as set forth in the ADA Standards for Accessible Design.
3. If footing drains for the existing buildings are connected to the sanitary sewer system, connection will be required in accordance with current City specifications. To schedule inspection, call the City of Ann Arbor Project Management Services Unit at (734) 794-6410.
4. Proposed E. University streetscape includes a concrete sidewalk, bike racks, existing street tree and existing lighting. Proposed Church Street streetscape includes concrete and brick sidewalk, bike racks, curved landscape bed, existing street tree and existing lighting.
5. Runoff from the building, the parklet and the transformer area will be captured in the storm water management system. All roof drains will run down through the building and will connect to the storm detention system.
100-year storm water detention is provided in a chamber in the basement level of the building. The chamber will discharge to the existing 12-inch storm sewer in Church Street.
6. The sanitary sewer lead will tap into the existing 10-inch sanitary main in E. University Street. Sanitary sewer modeling is to be done to determine any required off-site sanitary sewer improvements. Sanitary sewer flow mitigation will be provided at the rate of 110% of the proposed flow.
7. Domestic water and fire suppression water services are to tap into the existing 12-inch water main in E. University Street. Booster pumps will be provided for domestic and fire water services.
8. Dewatering operations during construction, if necessary, are to meet City requirements for sediment control and disposal. Dewatering is not anticipated because the on-site soils are sandy and the water table is below the depth of the proposed excavation.
9. There are no proposed firewalls in the building.
10. If temporary tie-backs are required in the right-of-way for construction purposes, a temporary licensing agreement will be provided. If the building's footings will be located in the right-of-way, the horizontal and vertical locations shall be clearly identified on the plans and a permanent licensing agreement will be provided.
11. Trash management systems:
Per discussion with City staff, the best concept for this particular location is for service vehicles to drive straight in from Church Street and pick up the dumpsters without making any turns and then back straight out. Bollards will be provided adjacent to the proposed building. Mirrors will be provided at the northeast corner of the building. No parking signs will be posted on the joint use drive. A minimum of 25% of the building footprint will be provided for trash storage.
There are two solid waste management systems on site, one for 611 E. University trash and recycling, and one for Pizza House recycling.
The 611 E. University trash will be collected via a vertical chute that leads to a mini compactor in the ground floor trash room. The trash dumpsters will be 2 cy units on wheels. Staff will push them out into the shared driveway for pick up. The trash room will also have two 4-cy dumpsters on wheels for recycling.
Pizza House will also use the trash compactor in the 611 E. University trash room and will have one 2-cy trash dumpster on wheels. Pizza House will have two 4-cy recycling dumpsters on wheels in the ground level parking area and a greaser container.
See the chart for preliminary trash and recycle pick up schedule.
Frequency of pickup will be adjusted as necessary.
12. The City of Ann Arbor has a single hauler for all commercial refuse collection in the City that began on July 1, 2009. It extends through June 30, 2017, with one option to extend until June 10, 2019. Waste Management of Michigan, Inc. (WMM) will provide collection and container rental services for all commercial refuse collection services requested by the City.

JOB No.

16028

REV. DATE

DATE: 3/28/16

SHEET 3 OF 13

CADD: DAG

ENG: JCA
PM: SWB

TECH:

611 E. UNIVERSITY

SITE PLAN DIMENSIONAL SITE PLAN

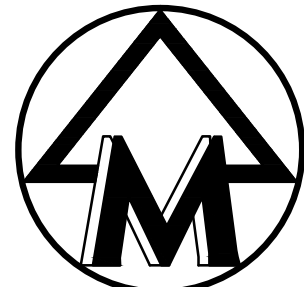
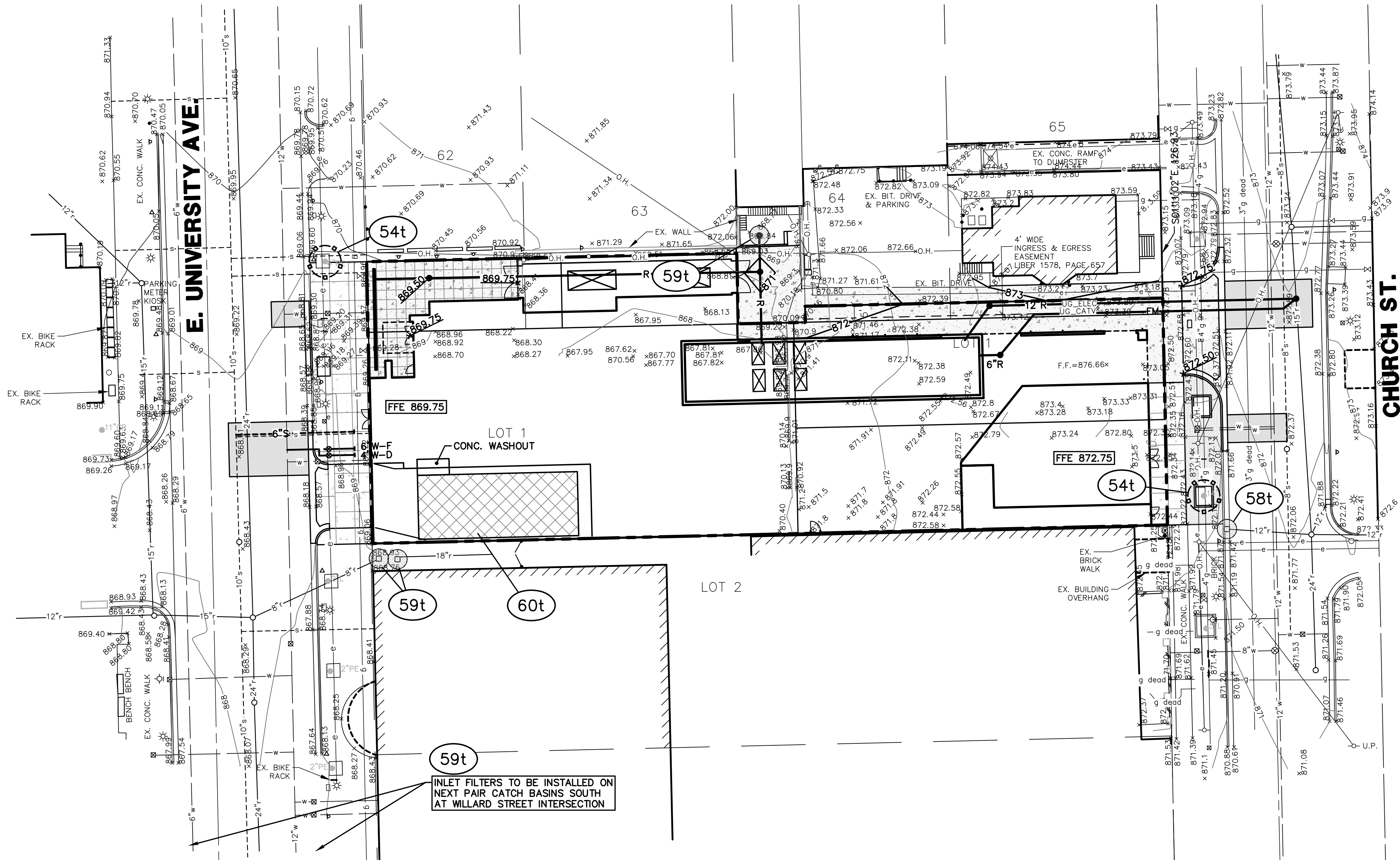
CLIENT

COLLEGIATE DEVELOPMENT GROUP
77711 BONHOMME AVE., SUITE 625
ST. LOUIS, MO 63105
ATTN: BRANDT STILES
PH: (314) 721-5559

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SCALE: 1" = 20'



LEGEND

	EXIST. CONTOUR
	PROP. CONTOUR
	EXIST. SPOT ELEVATION
	PROP. SPOT ELEVATION
	EXIST. UTILITY POLE
	GUY WIRE
	ELEC. TRANSFORMER
	EXIST. OVERHEAD UTILITY LINE
	EXIST. LIGHT POLE
	PROP. LIGHT POLE
	EXIST. TELEPHONE LINE
	EXIST. ELECTRIC LINE
	EXIST. GAS LINE
	EXIST. GAS VALVE
	EXIST. FIBER OPTIC LINE
	EXIST. WATER MAIN
	PROP. WATER MAIN
	EXIST. HYDRANT
	PROP. HYDRANT
	EXIST. GATE VALVE IN BOX
	PROP. GATE VALVE IN BOX
	EXIST. GATE VALVE IN WELL
	PROP. GATE VALVE IN WELL
	EXIST. CURB STOP & BOX
	PROP. CURB STOP & BOX
	REDUCER
	EXIST. BLOW-OFF
	PROP. BLOW-OFF
	POST INDICATOR VALVE
	THRUST BLOCK
	PROP. KNOXBOX
	EXIST. STORM SEWER
	PROP. STORM SEWER
	EXIST. CATCH BASIN OR INLET
	PROP. CATCH BASIN OR INLET
	EXIST. BEEHIVE INLET
	PROP. BEEHIVE INLET
	PROP. ROOF DRAIN
	END SECTION
	HEAD WALL
	CULVERT
	EXIST. DOWNSPOUT
	PROP. DOWNSPOUT
	EXIST. SANITARY SEWER
	PROP. SANITARY SEWER
	EXIST. CLEANOUT
	PROP. CLEANOUT
	C/L OF DITCH
	DRAINAGE DIRECTION
	SIGN
	SINGLE TREE
	TREE OR BRUSH LIMIT
	FENCE
	SILT FENCE
	LIMITS OF DISTURBANCE
	CONSTRUCTION FENCE
	FINISH FLOOR ELEVATION

SOIL EROSION CONTROL MEASURES

t = temporary p = permanent

15		58	
16		59	
54		60	
55			

SOIL EROSION CONTROL NOTES:

- All soil erosion control measures shall comply with the current City of Ann Arbor ordinances, Washtenaw County standards and specifications for soil erosion and sedimentation control, and State of Michigan "Soil Erosion and Sedimentation Control Act - P.A. 347".
- Prior to commencing earthmoving operations, the grading contractor shall install the temporary catch basin filter(s) shown on the plans.
- The removal of trapped sediment and the cleanout or replacement of clogged storm may be necessary after each storm event during the project.
- Only upon stabilization of all disturbed areas may the temporary gravel filters be removed. All storm sewers must be also cleaned of all sediment.
- All inlets and catch basins will have sediment filters installed after their construction. These filters will be maintained until all areas around the structure have been stabilized.
- The Contractor will maintain all necessary soil erosion control devices until soil stabilization has occurred.
- Appropriate emergency access will be provided during construction.
- The estimated cost of soil erosion control measures is \$5000.
- The estimated cost to protect all soil surfaces from erosion should construction discontinue is \$3000.
- External streets will be immediately cleaned of any tracked mud following each mud-tracking occurrence.
- Estimated project earthwork is 1,500 CYD excavation and 200 CYD fill.
- Dewatering operations during construction, if necessary, must be done per City requirements including sediment control and disposal.
- Final locations and dimensions of the mud tracking mat and concrete washout area are to be determined by the contractor subject to City approval.

MAINTENANCE PROGRAM FOR SOIL EROSION CONTROLS

- The Owner shall be responsible for maintaining the permanent soil erosion control measures. Maintenance responsibilities shall become part of any sales or exchange agreement for the land on which the permanent SESC measures are located.

STORMWATER NARRATIVE:

- The onsite drainage will be routed to the detention chamber located in the basement level of the building. Runoff from the parking in the northwest corner of the site and roof drainage will be routed interior to the building and connected to the detention. The detention system has been sized to provide first flush, bankfull, and 100-year storm detention.

The chamber will have an open bottom to permit infiltration into the sandy soil.

The detention chamber will have an emergency overflow pipe out to Church Street. The storm storage volume will be detained and discharged at a controlled rate through a pumped discharge to the gravity flow emergency overflow line.

Construction Sequence:

- 4/1/2017 thru 9/1/2018
- Inventory Site (1 week)
 - SESC pre-grading meeting
 - Identify construction limits and define site access
 - Install construction fencing as required to secure site
 - Building Demolition (2 weeks)
 - Install silt fence and mud tracking mat
 - Demolish buildings and associated utilities
 - Utility Installation and Site Demolition (10 weeks)
 - Install all soil erosion control measures
 - Demolish site amenities, including curb and gutter and pavement as required
 - Install sanitary sewer extension and lead
 - Install water main and water main leads
 - Install storm sewer extension and lead
 - Install silt sack on completed inlets
 - A wet or dry standpipe shall be installed per 3311.1 of the Michigan Building Code. The standpipe can be permanent or temporary with a permanent or temporary FDC provided. Connections for hose operations shall be 2 1/2" NST.
 - Earth Retention System Installation and Mass Excavation (10 weeks)
 - Maintain existing controls
 - Install earth retention system
 - Excavate for foundation/basement/storm detention chamber
 - Foundation and Building Construction (41 weeks)
 - Maintain existing controls; install permanent controls within five (5) days after final grading or final grade change
 - Construct detention chamber within the building foundation
 - Fine Grade the Site, install Sidewalk, Curb and Gutter, Final Street Paving and continue Building Construction (2 weeks)
 - Maintain existing controls
 - Install Sidewalk, Curb and Gutter and Final Street Paving
 - Plant landscape items
 - Follow-Up After the Site is Stabilized (1 week)
 - Remove construction fence and install new fencing
 - Remove catch basin silt sacks
 - Remove sediment from detention chambers and storm sewer system
 - Clean up debris
 - Finalize Building Construction (1 week)
 - Maintain permanent soil erosion control measures
 - Remove construction fencing
 - Prior to the first Certificate of Occupancy, all Life Safety Systems shall be completed, tested and approved.
 - A "Knox Box" emergency responder access system shall be installed prior to the first Certificate of Occupancy. Forms for the Knox Box are available thru Fire Prevention.
 - Provide as-built certification of the storm water detention system.

Note: Construction sequence & schedule is preliminary and subject to adjustment in response to forces beyond our control. These may include weather, material availability, labor unrest or other unforeseen circumstances.

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

611 E. UNIVERSITY

SITE PLAN
GRADING & SOIL EROSION CONTROL PLAN

C6

JOB No. 16028

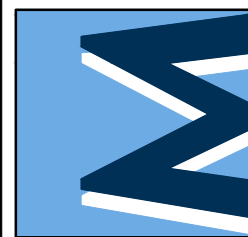
REVISIONS:

DATE: 3/28/16	REV. DATE:
SHEET 6 OF 15	
CADD: JAG	
ENG: JCA	
PM: JWB	
TECH: JWB	
16028SP1.dwg	
16028SP1.dwg	

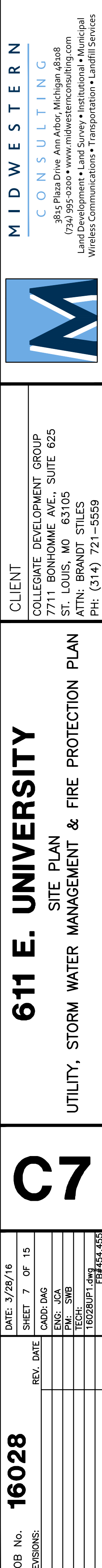
CLIENT

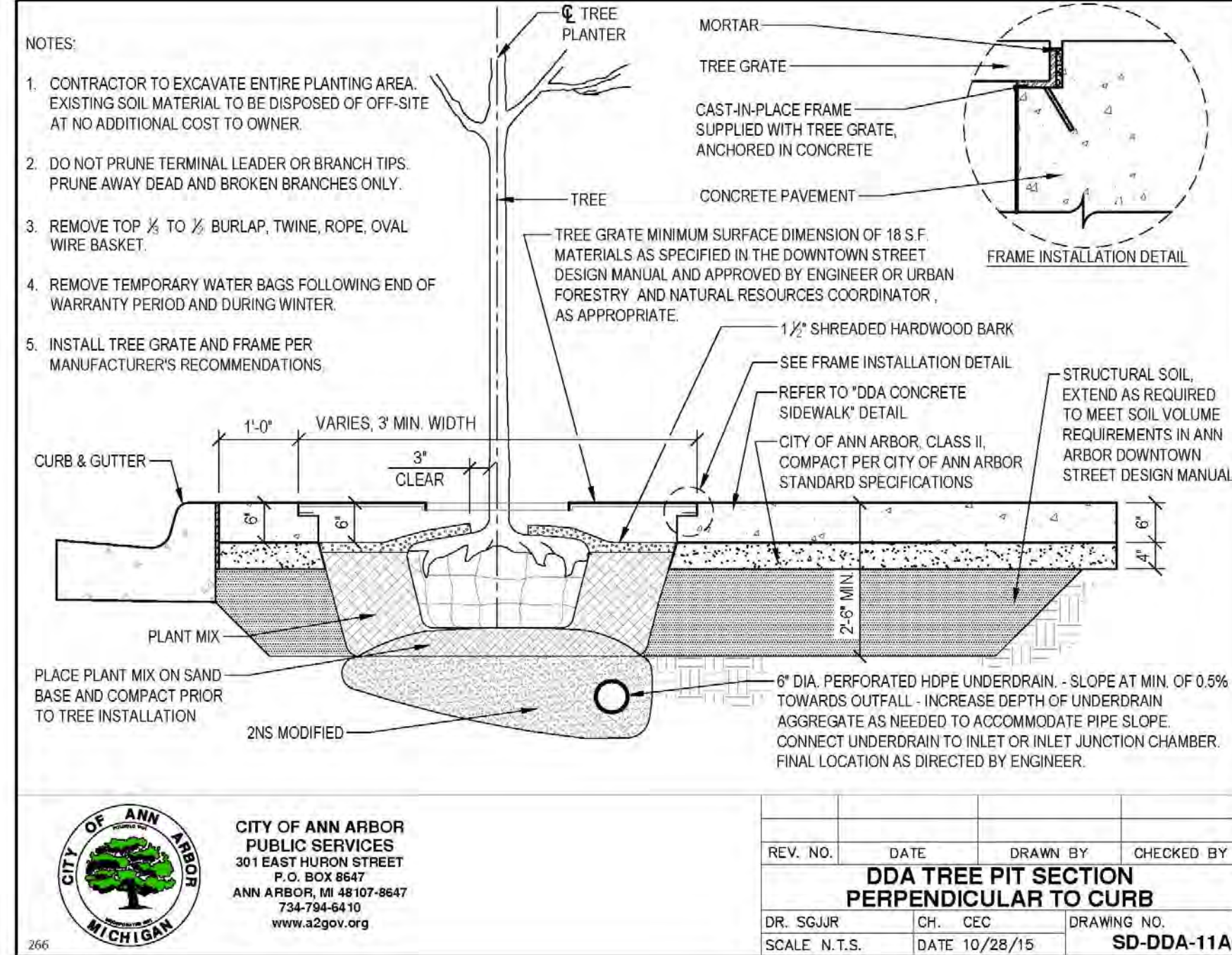
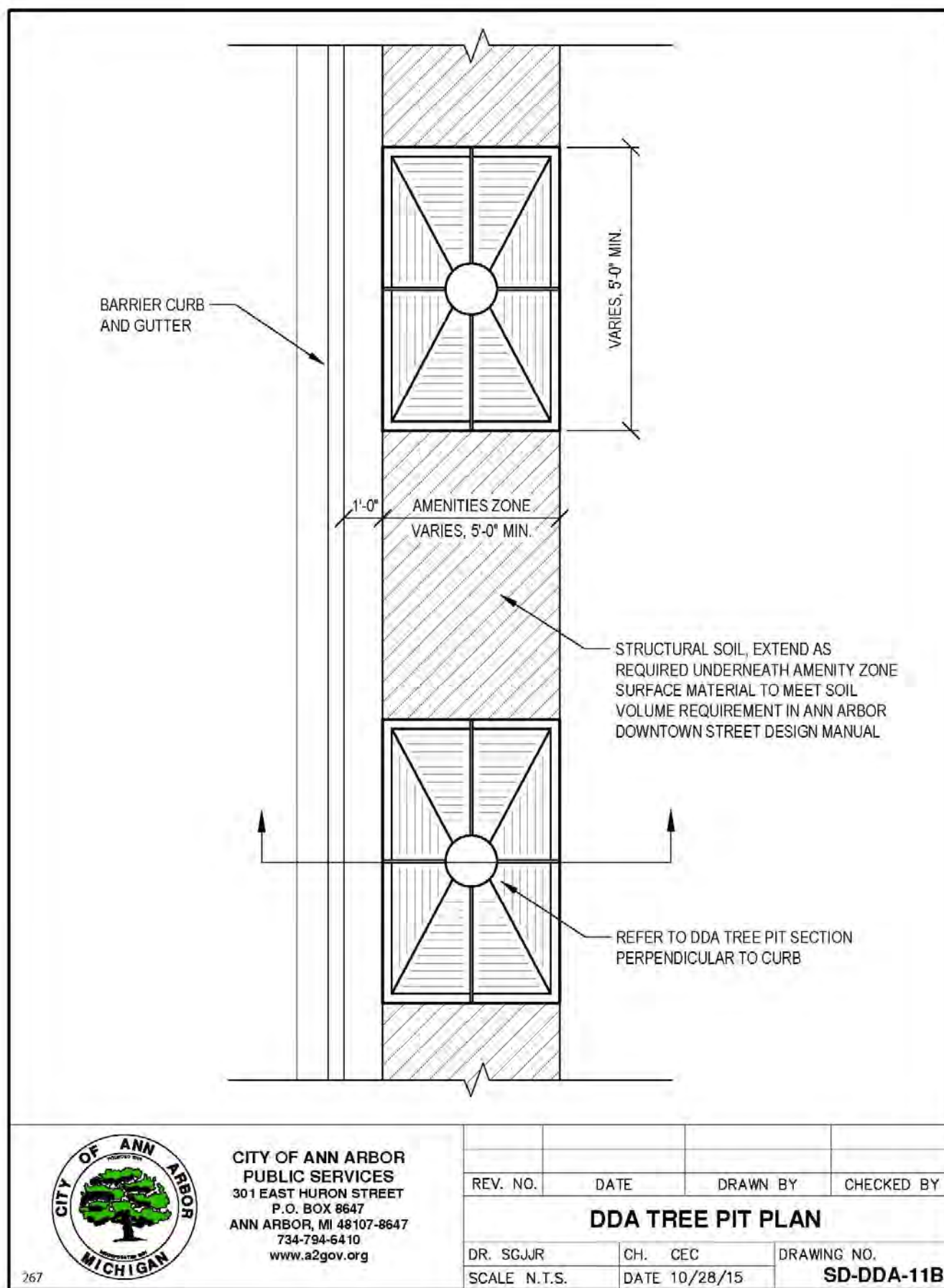
COLLEGIATE DEVELOPMENT GROUP
7711 BONHOMME AVE., SUITE 625
ST. LOUIS, MO 63105
ATTN: BRANDT STILES
PH: (314) 721-5559

MIDWESTERN
CONSULTING

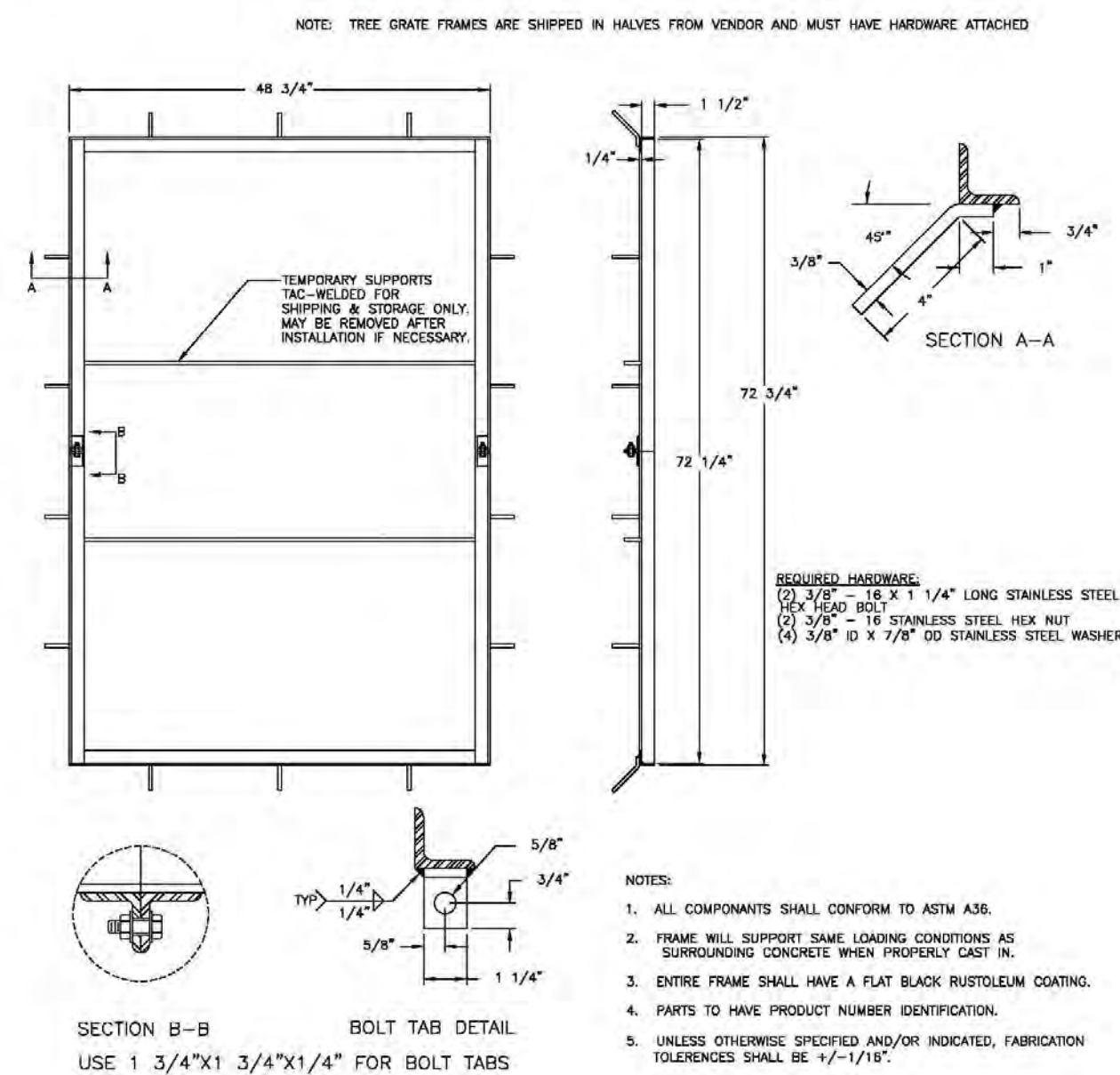


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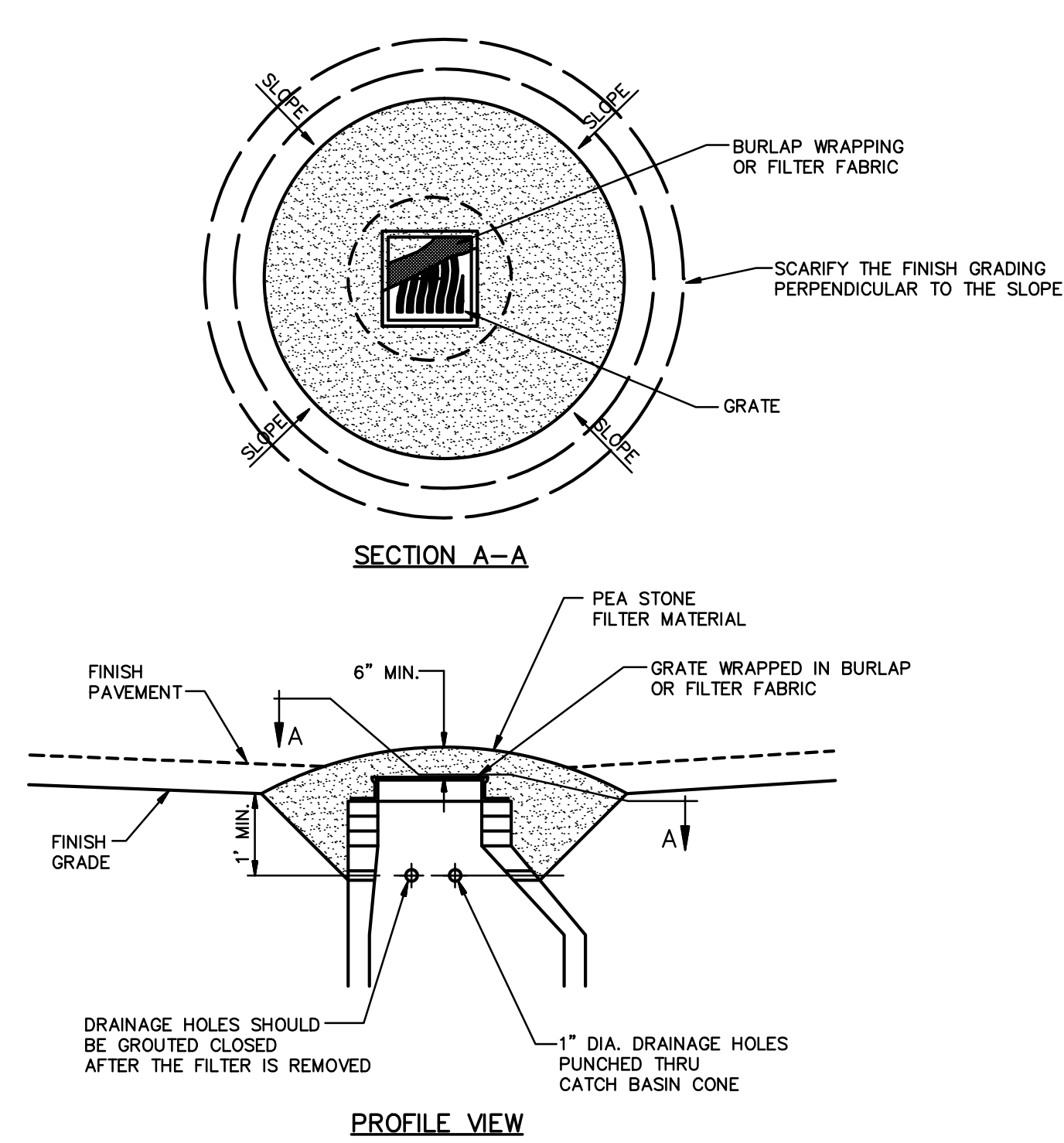
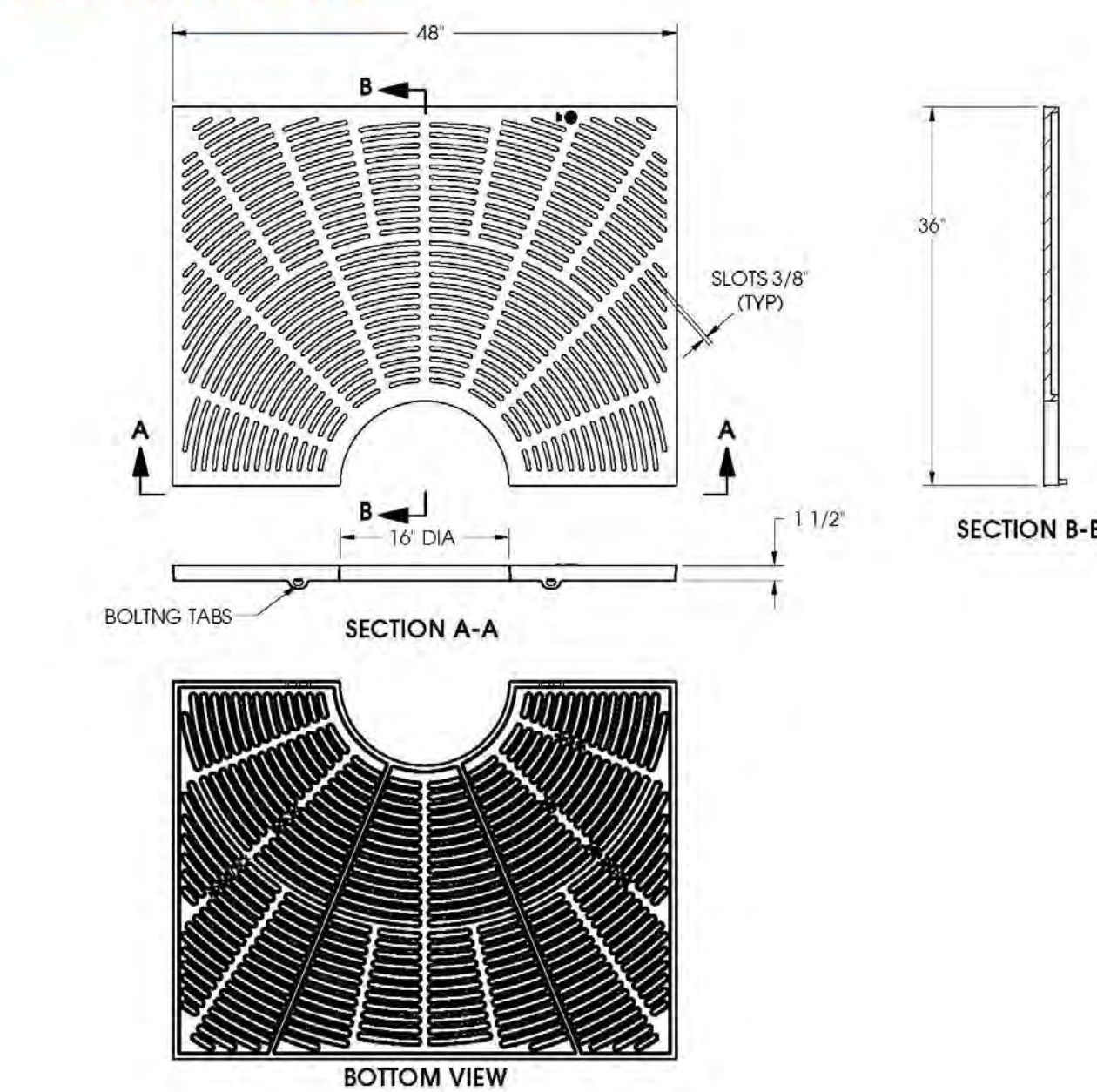




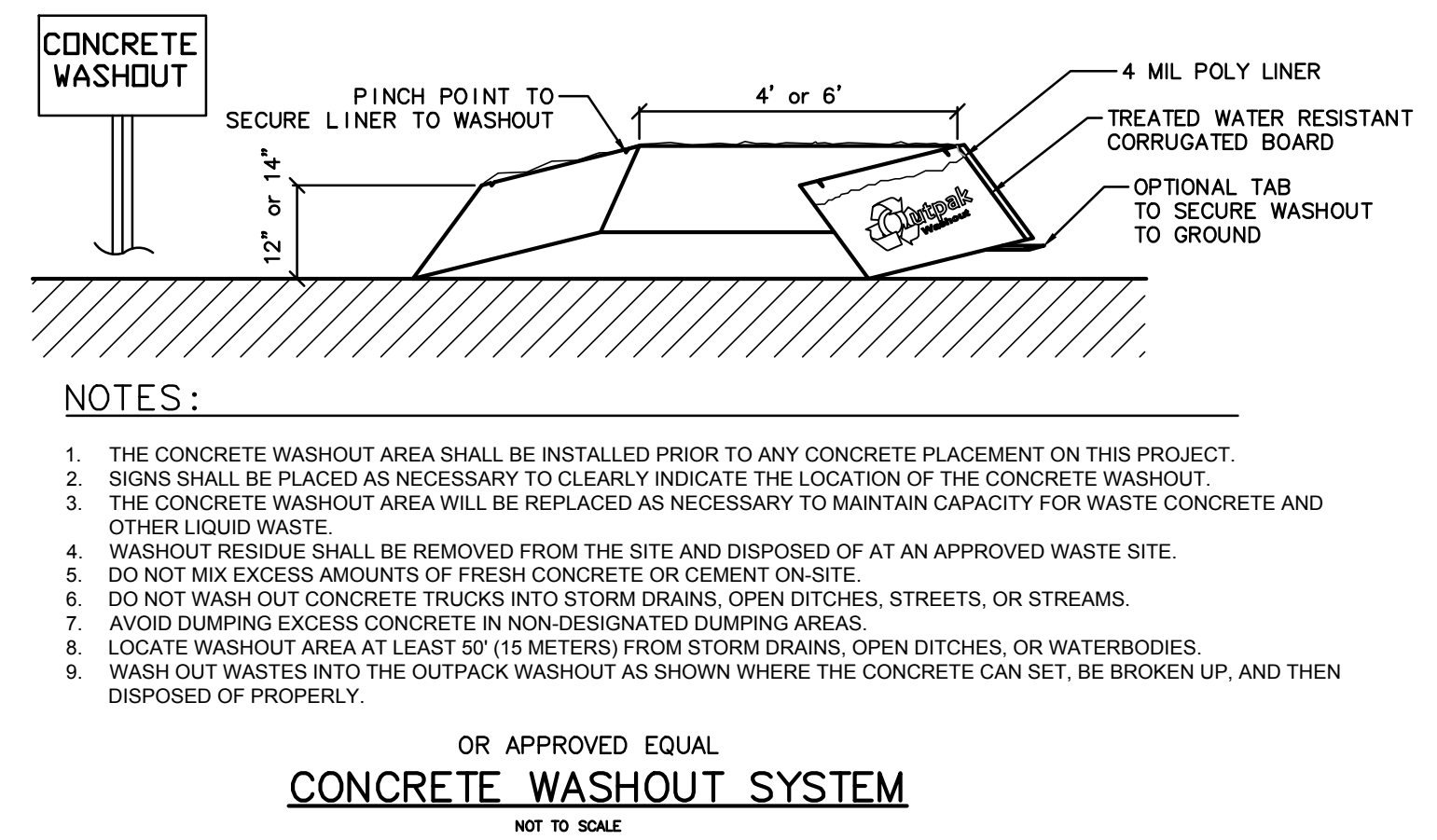
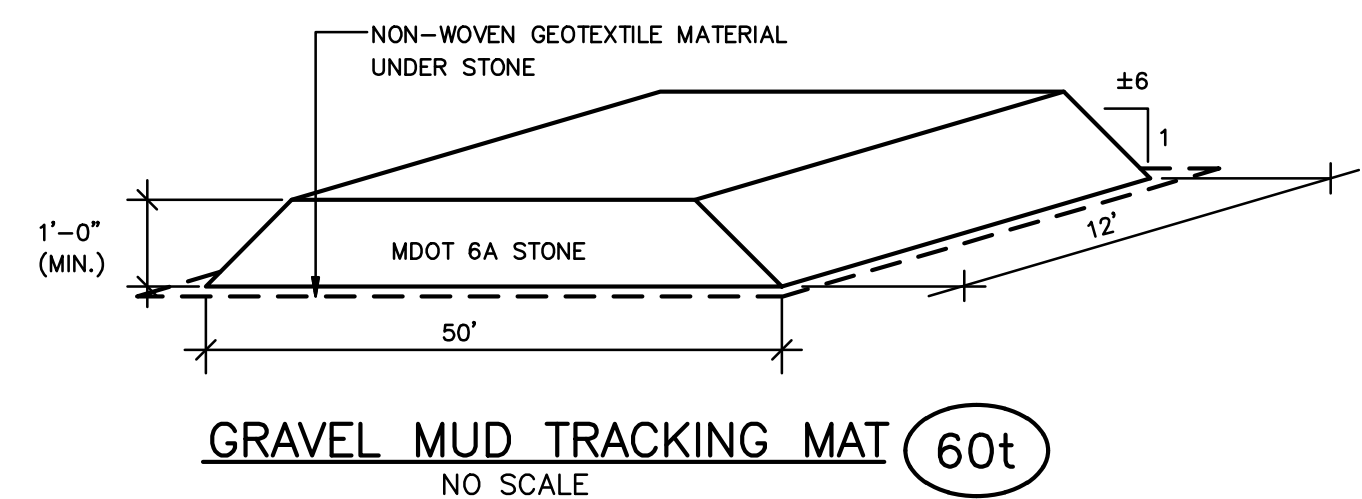
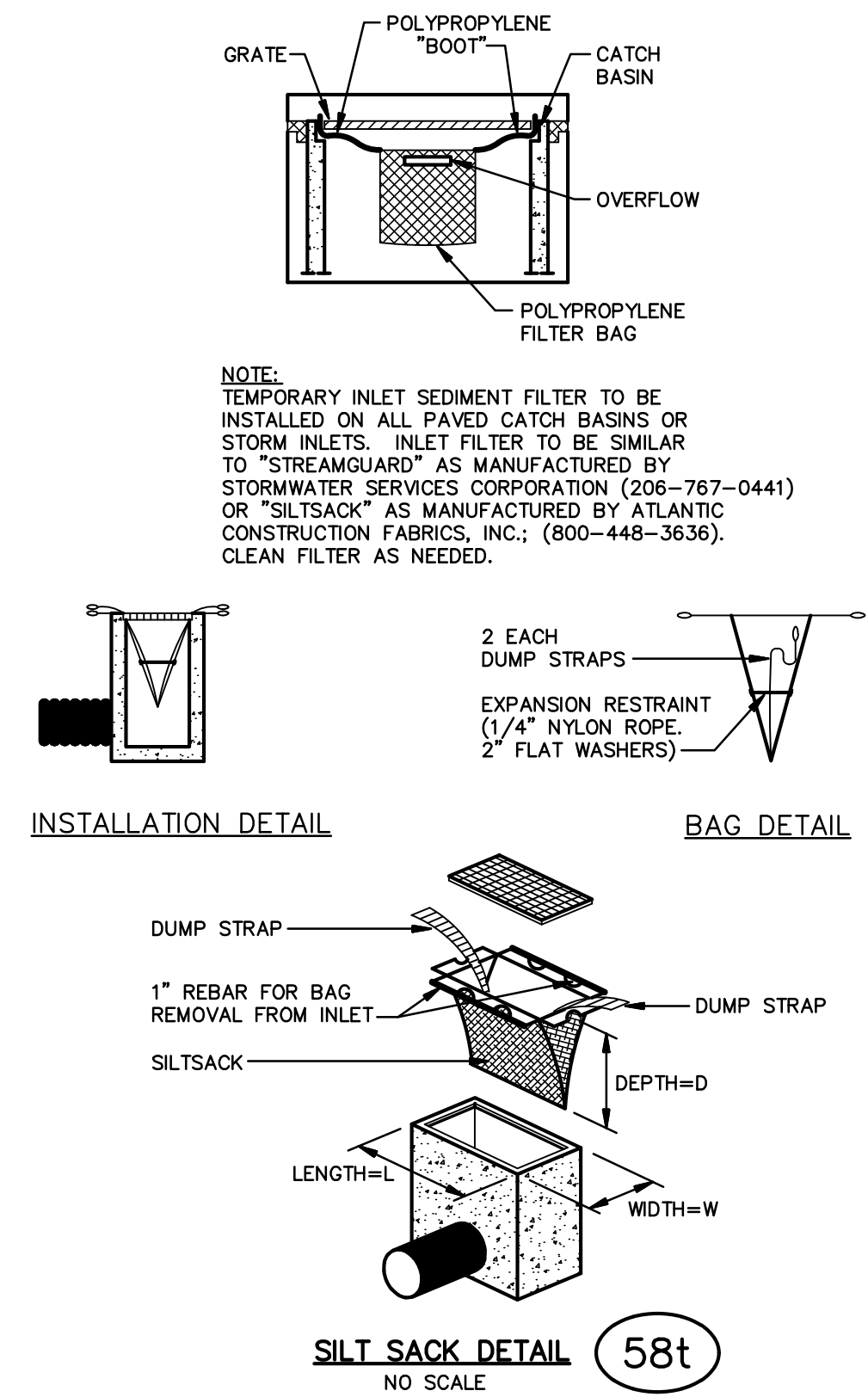
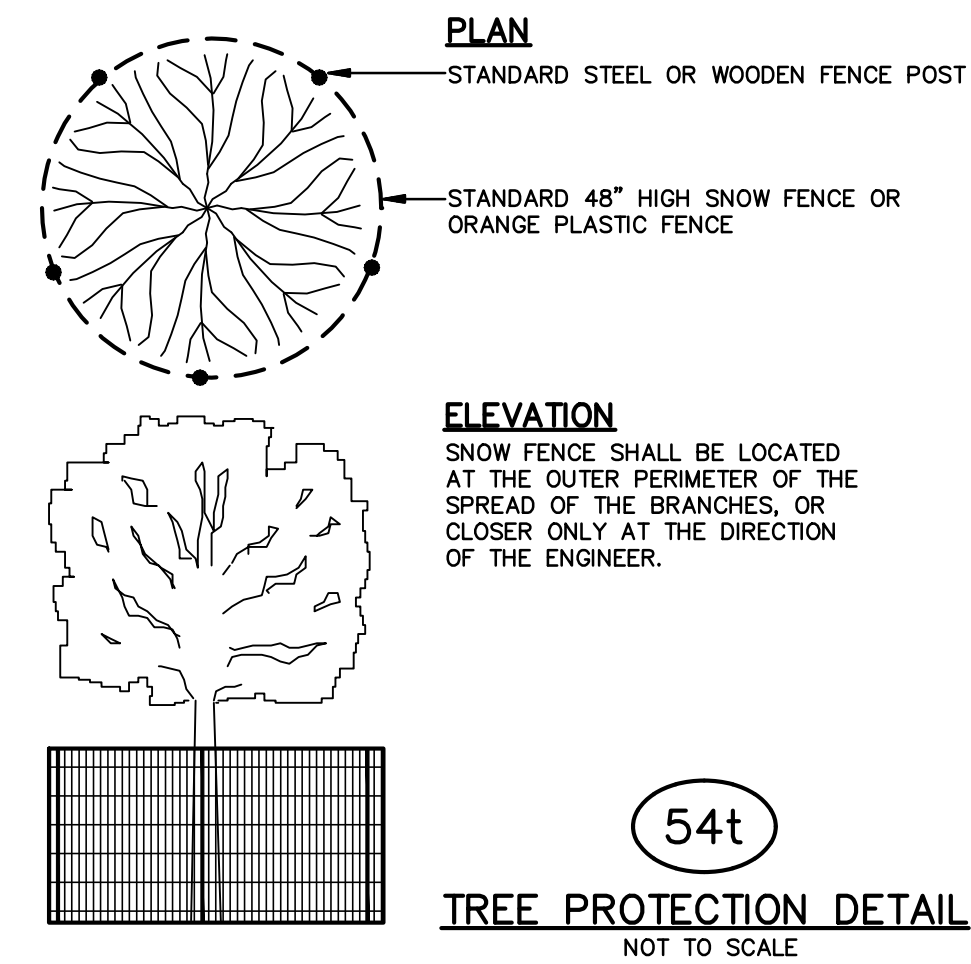
48"X72" Rectangular Tree Grate Frame



8691 Tree Grate



PARKING LOT INLET FILTER (59t)



E. UNIVERSITY AVE.

CHURCH ST.

LOT 1

LOT 2

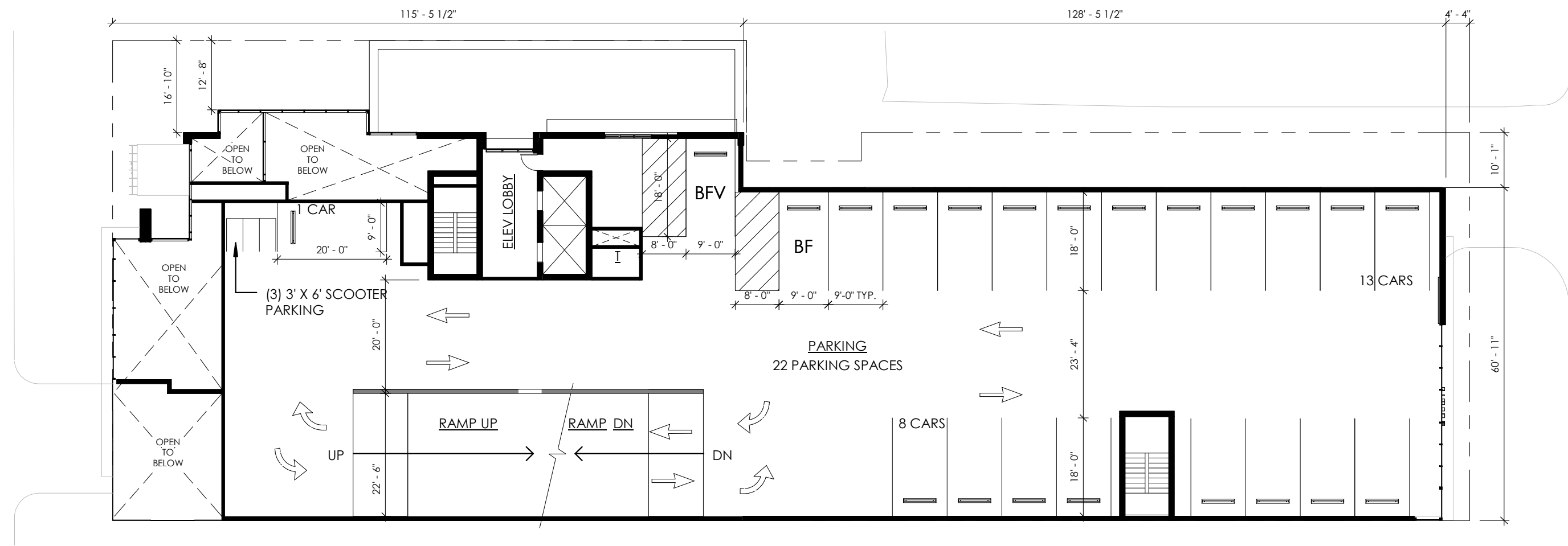
LANDSCAPE REQUIREMENTS:

- STREET TREE CANOPY LOSS:** 7" honeylocust on E. University.
Mitigation required = 7 caliper inches
Mitigation provided = 7 caliper inches (1 4-inch cal. Tulip Poplar, 1 3-inch cal. American Hornbeam)
- STREET TREE ESCROW:**
E. University Street frontage = 88 lf
Church Street frontage = 71 lf
159 lf x \$1.30 = \$206.70 or equivalent

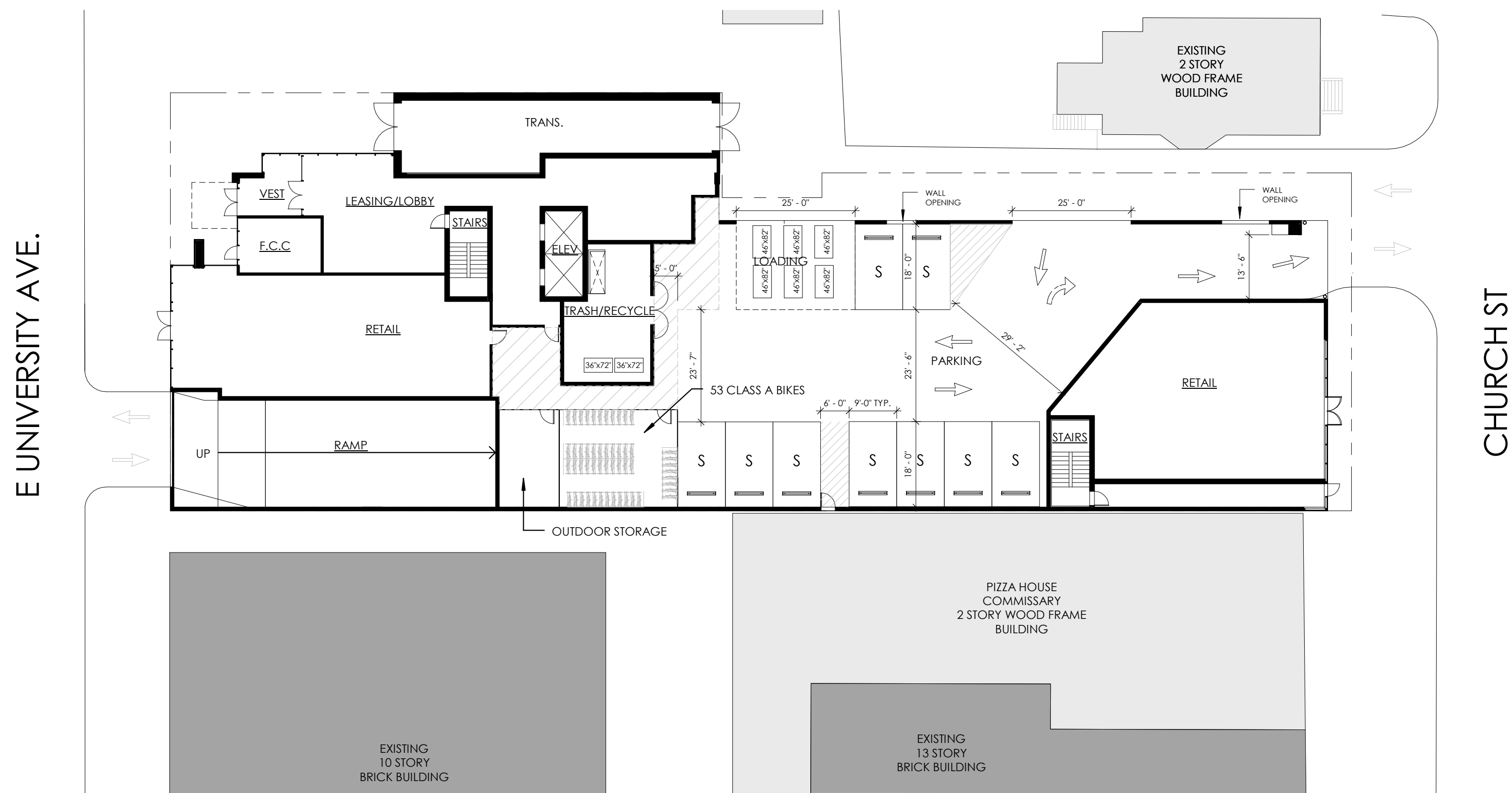
1. STREET TREE CANOPY LOSS: 7" honeylocust on E. University.
Mitigation required = 7 caliper inches
Mitigation provided = 7 caliper inches (1 4-inch cal. Tulip Poplar, 1 3-inch cal. American Hornbeam)
2. STREET TREE ESCROW:
E. University Street frontage = 88 lf
Church Street frontage = 71 lf
159 lf x \$1.30 = \$206.70 or equivalent
Street tree escrow of \$206.70 will be provided prior to issuing building permits and will be refunded after city staff inspection shows long term survival of the proposed street trees.
3. LANDMARK TREE REPLACEMENT: none required
4. 5.602 VEHICULAR USE AREA LANDSCAPING AND SCREENING:
RIGHT-OF-WAY SCREENING: Not applicable
INTERIOR LANDSCAPE ISLANDS: Not applicable
5. 5.603 CONFLICTING LAND USE BUFFERS: Not applicable

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
1	LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	4"	BB	6' BRANCH HT.
1	CC	CARPINUS CAROLINIANA	AMERICAN HORNBEAM	3" cal.	BB	6' BRANCH HT.

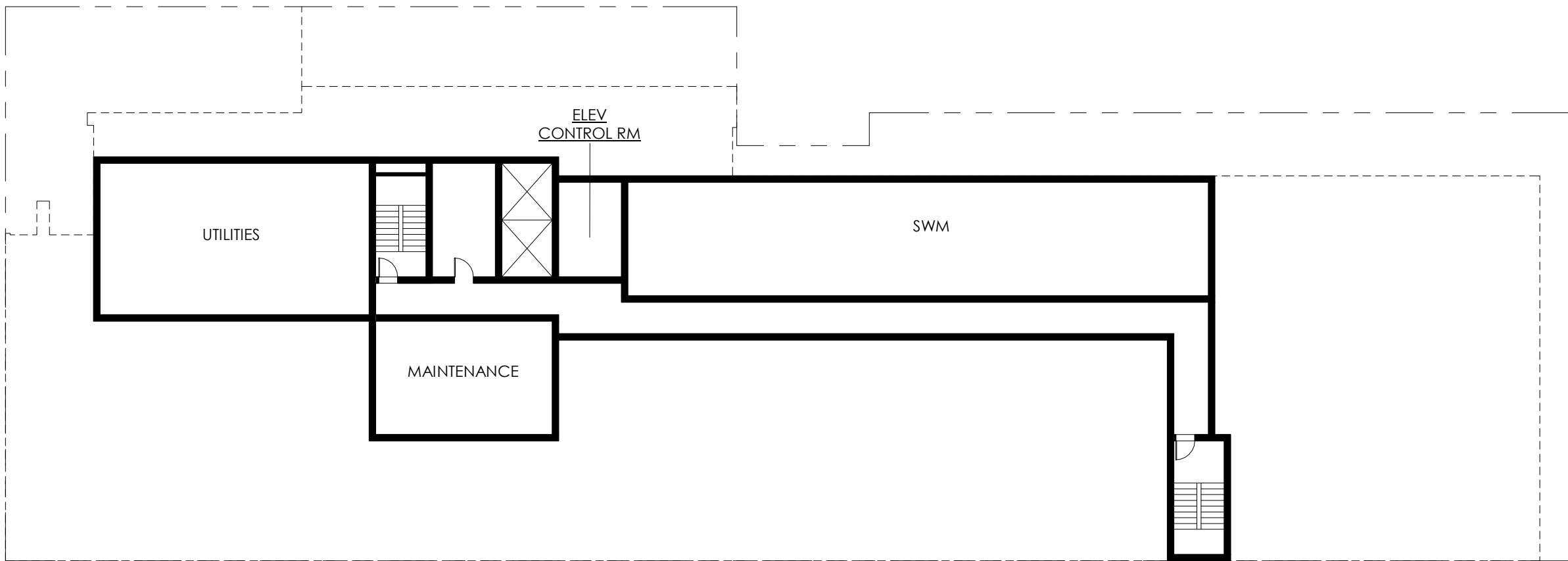




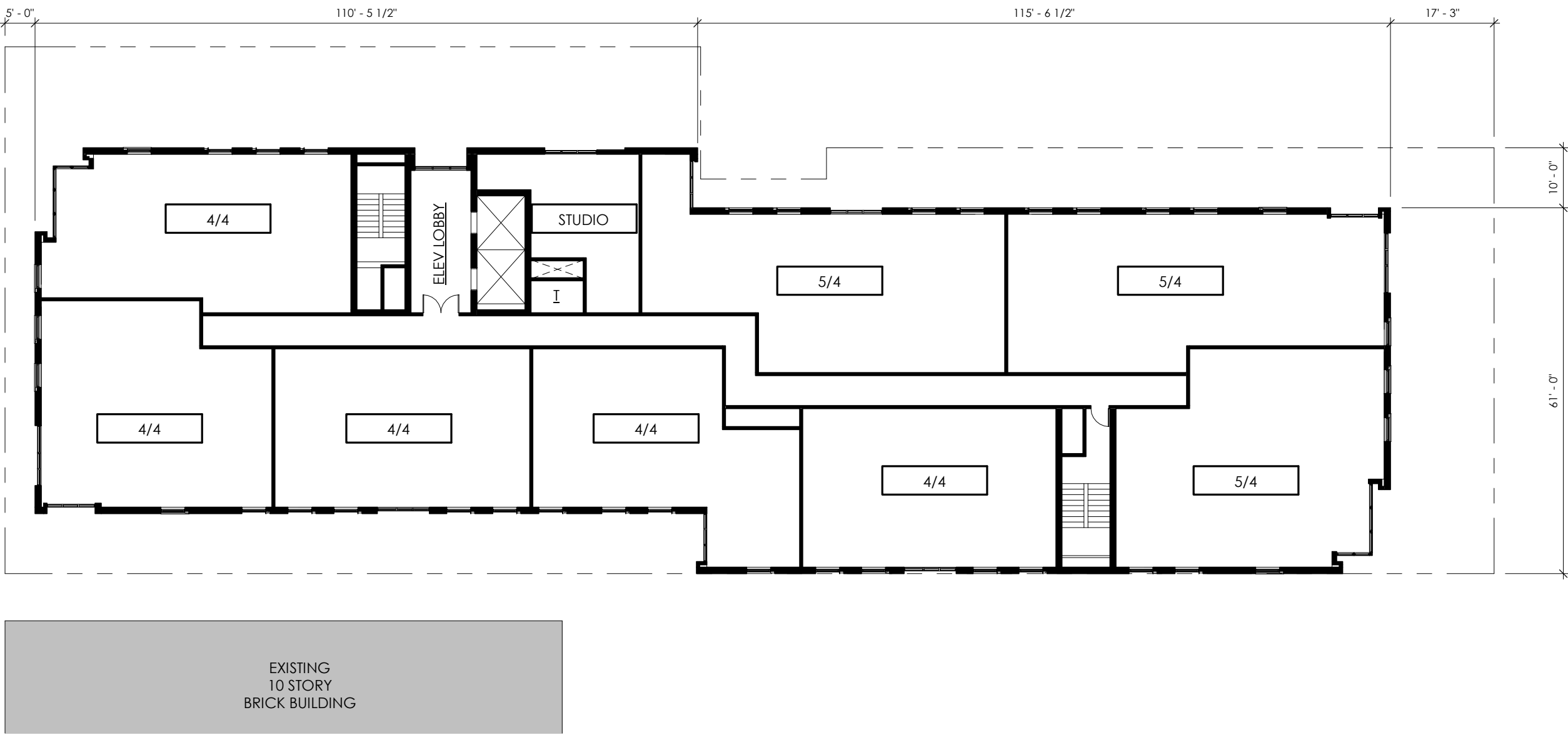
③ LEVEL 2 - SITE PLAN SUBMISSION
SCALE: 1" = 20'-0"



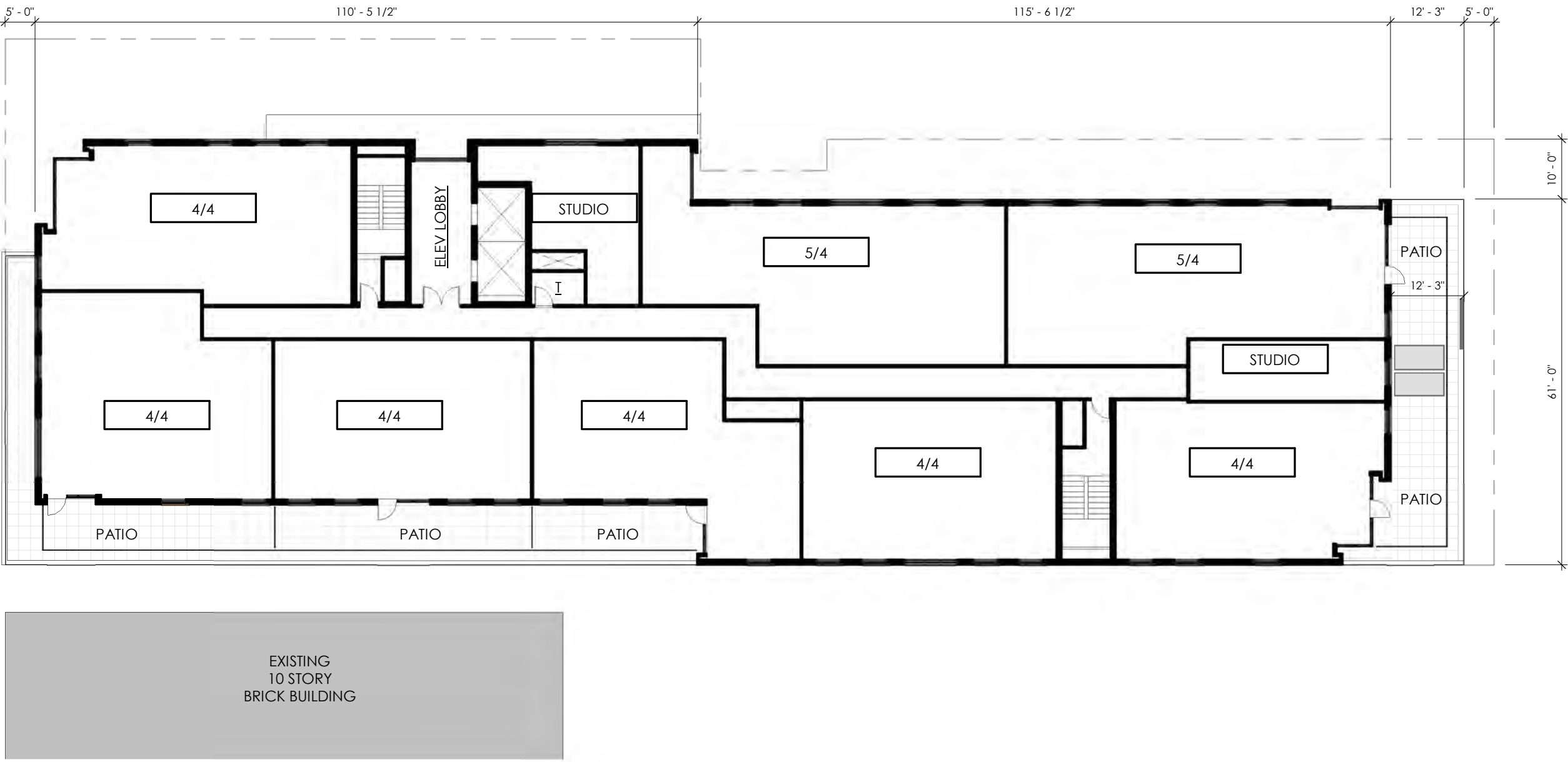
② LEVEL 1 - SITE PLAN SUBMISSION
SCALE: 1" = 20'-0"



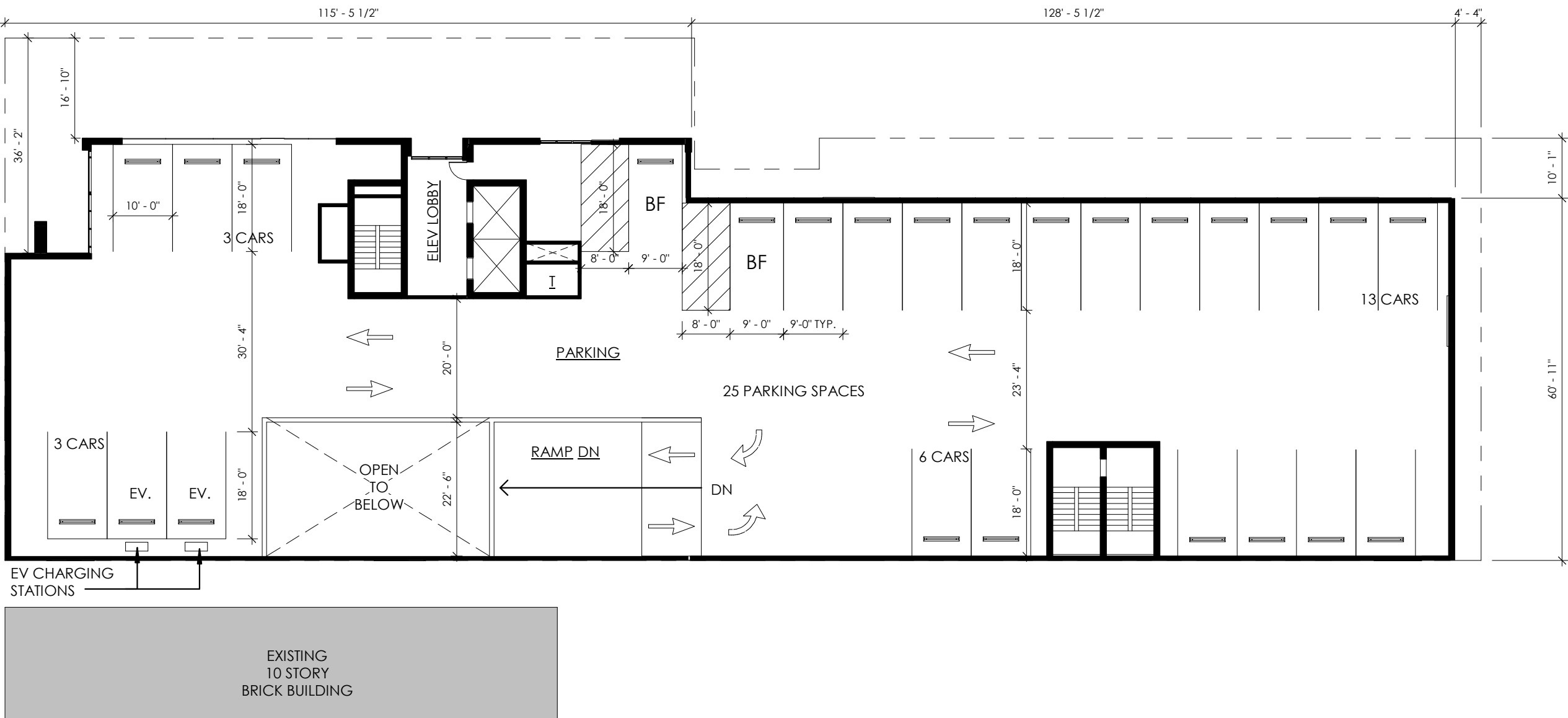
① BASEMENT - SITE PLAN SUBMISSION
SCALE: 1" = 20'-0"



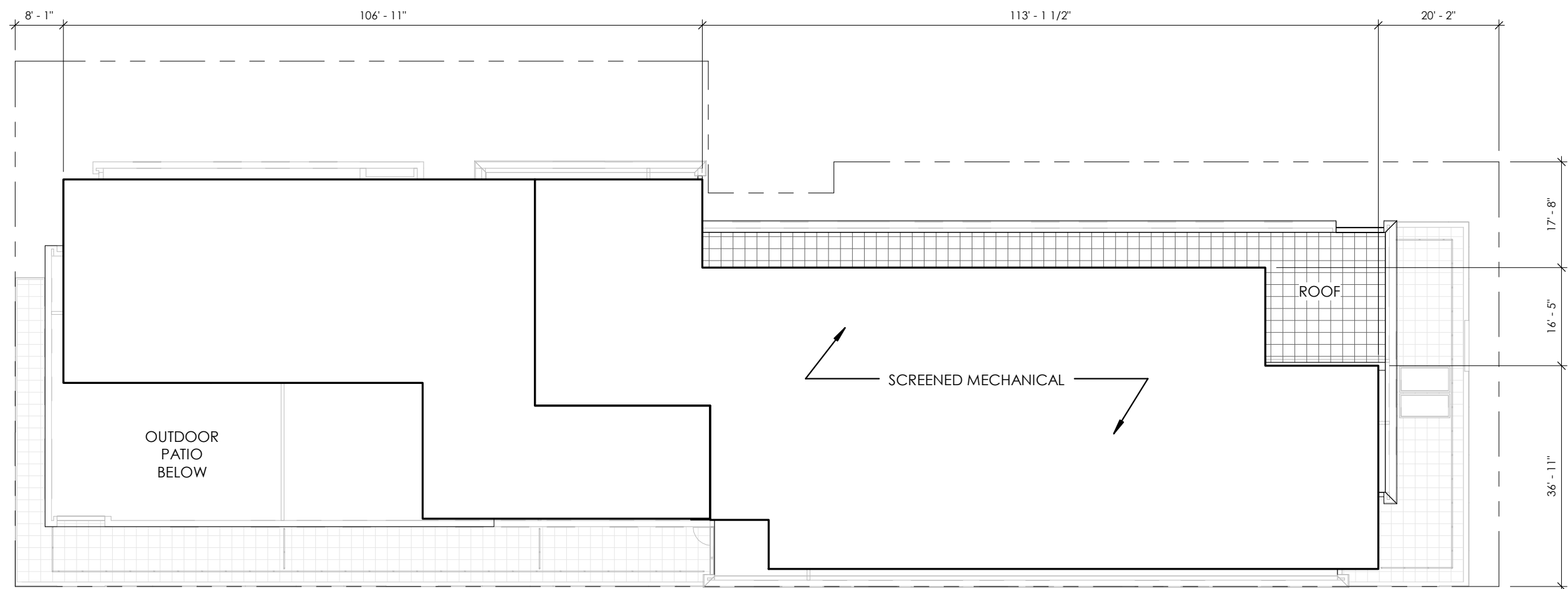
③ 9TH TO 12TH TYPICAL FLOOR
SCALE: 1" = 20'-0"



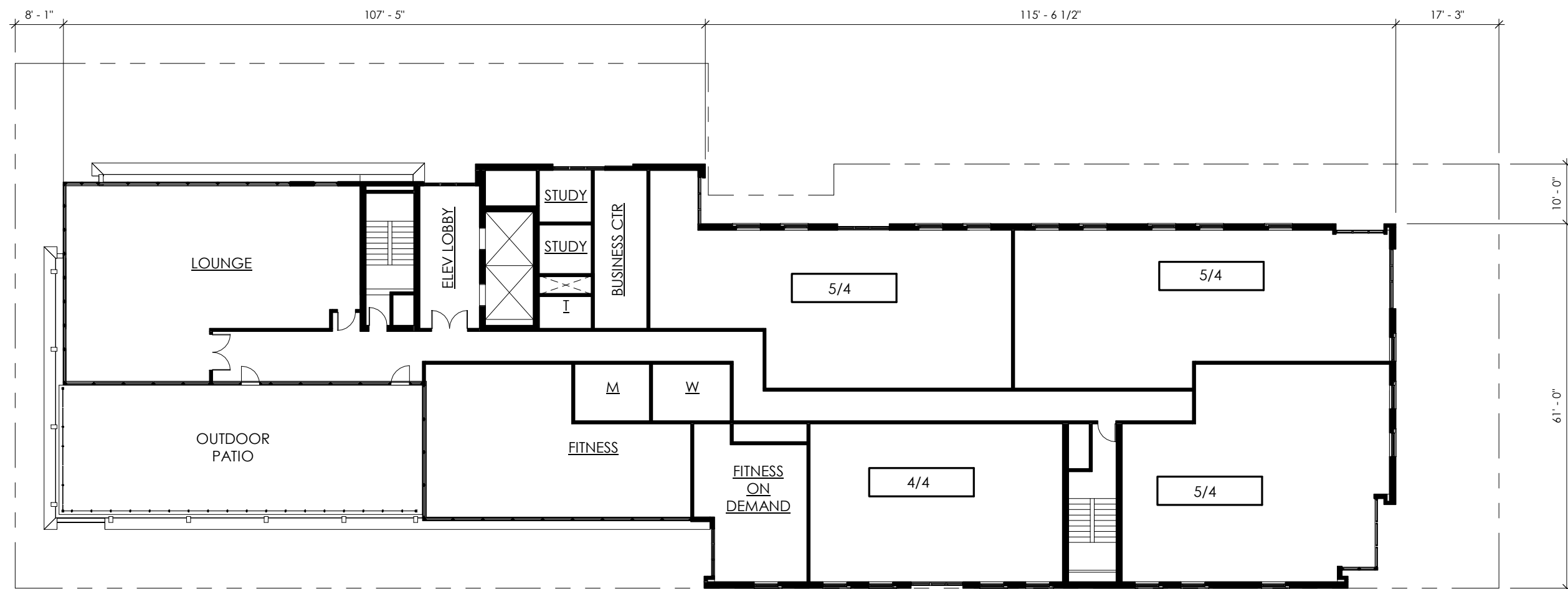
② 4TH TO 8TH TYPICAL FLOOR
SCALE: 1" = 20'-0"



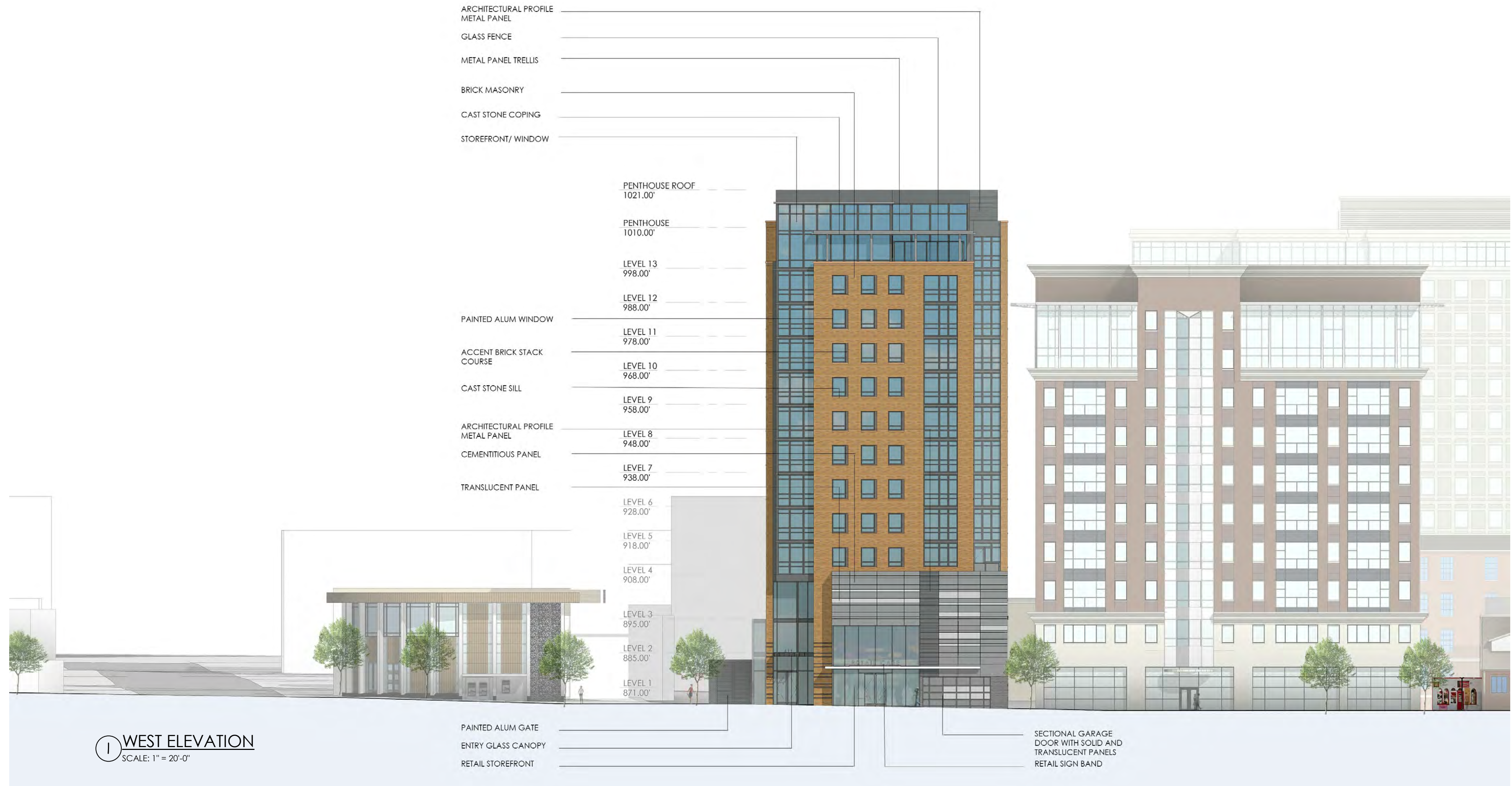
① 3RD FLOOR
SCALE: 1" = 20'-0"



② PENTHOUSE FLOOR
SCALE: 1" = 20'-0"



① 13TH FLOOR
SCALE: 1" = 20'-0"



WDG

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Collegiate
Development
Group
7711 Bonhomme Avenue
Suite 350
St. Louis, MO 63105

SITE PLAN SUBMISSION	03/28/16

PROFESSIONAL SEAL

WDG PROJECT NO:
WA15039

BUILDING
ELEVATIONS

SCALE: 1" = 20'-0"

A0-04

