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REVISIONS

NO.	DATE	
1	11.23.2022	REVISED PER 1ST CZP COMMENTS
2		
3		
4		
5		
6		

CONDITIONAL ZONING
PERMIT DRAWINGS
FOR:
BARBEE CHAPEL APARTMENTS
5101 BARBEE CHAPEL RD
CHAPEL HILL, NC 27517
PROJECT NUMBER: TLA-22001

BARBEE CHAPEL APARTMENTS

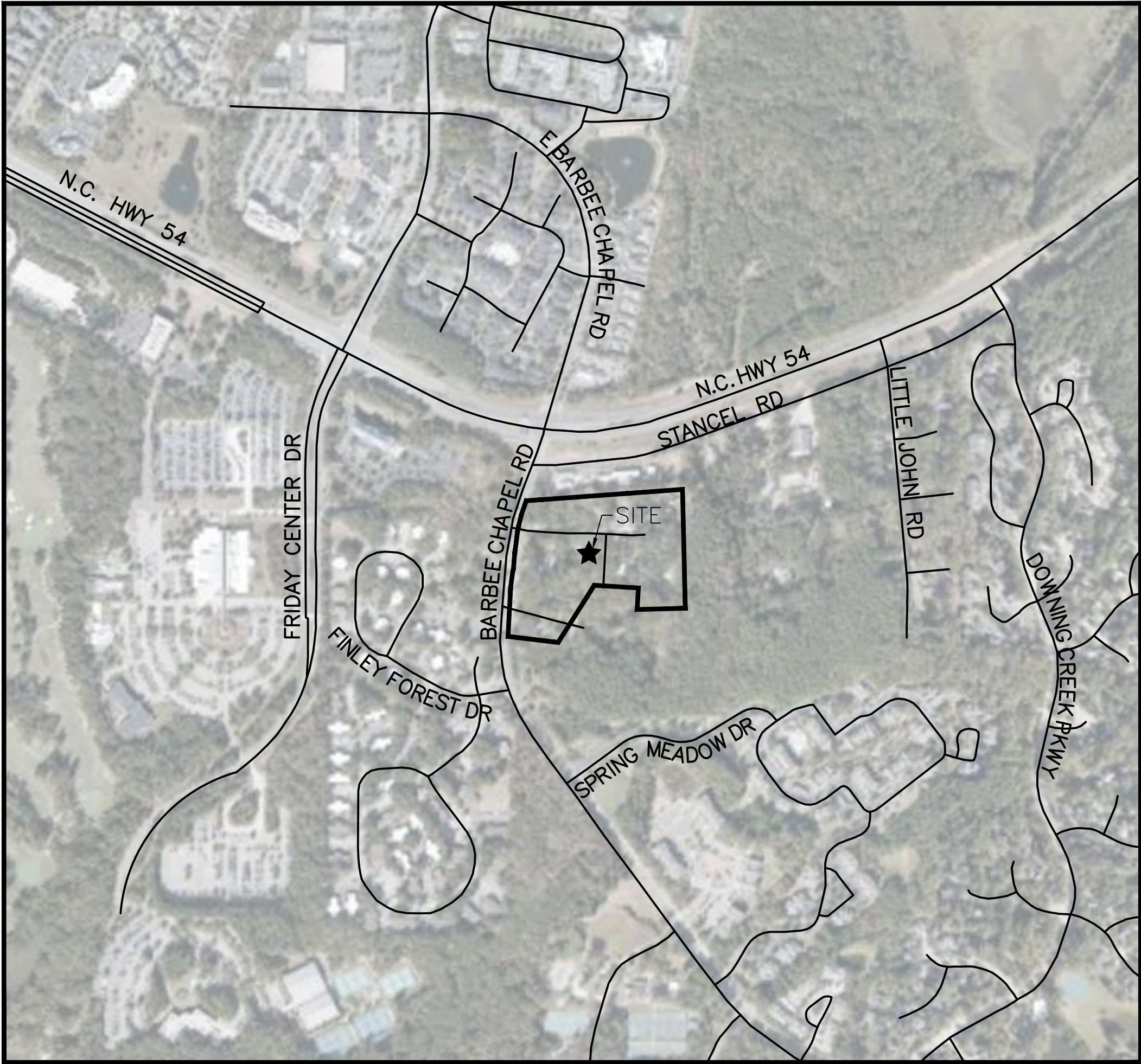
5101 BARBEE CHAPEL RD
CHAPEL HILL, NC 27517

CONDITIONAL ZONING PERMIT DRAWINGS

PROJECT NUMBER: TLA-22001

DATE: SEPTEMBER 29, 2022

REVISED: NOVEMBER 23, 2022



VICINITY MAP
1" = 500'



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SITE DATA		
PIN	9798-04-72-8235, 9798-04-72-7580, 9798-04-72-9483, 9798-04-72-9596, 9798-04-82-2404, 9798-04-82-2505, 9798-04-82-3481, 9798-04-82-1515, 9798-04-72-9722, 9798-04-82-4628	
SITE AREA	455,841 SF / 10.46 AC	
GROSS LAND AREA	455,841 SF + 10%(455,841 SF) = 501,425 SF / 11.51 AC	
ZONING	EXISTING	R-2
	PROPOSED	R-6
RIVER BASIN	CAPE FEAR	
WATERSHED	JORDAN LAKE - UPPER NEW HOPE	
WATERSHED PROTECTION	JORDAN LAKE WATERSHED, F/I-B	
EXISTING USE	SINGLE FAMILY	
PROPOSED USE	MULTI-FAMILY	
UNITS	PROPOSED	346 MULTI-FAMILY UNITS 24 TOWNHOME UNITS
		370 TOTAL UNITS
DENSITY	PROPOSED	33 UNITS/ACRE
IMPERVIOUS	EXISTING	1.69 AC (14.7% OF GLA)
	MAX ALLOWED	8.06 AC (70.0% OF GLA)
BUILDING HEIGHT	ALLOWED	39'
	PROPOSED	60'
RECREATION SPACE	REQUIRED	0.05 * 501,425 SF = 25,071 SF
	PROPOSED	25,071 SF
VEHICULAR PARKING	REQUIRED	
	STUDIO	MIN 1 PER UNIT, MAX 1.25 PER UNIT
	1-BED	MIN 1 PER UNIT, MAX 1.25 PER UNIT
	2-BED	MIN 1.4 PER UNIT, MAX 1.75 PER UNIT
	3-BED	MIN 1.75 PER UNIT, MAX 2.25 PER UNIT
	PROPOSED	PER LUMO
EV PARKING	PROPOSED	> 5% OF PROPOSED PARKING
BIKE PARKING	REQUIRED	1 PER 4 UNITS
	PROPOSED	PER LUMO
SETBACKS	REQUIRED	STREET = 20' INTERIOR = 10' SOLAR = 8'
	PROPOSED	STREET = 20' INTERIOR = 10' SOLAR = 8'
BUFFERS	REQUIRED	NORTH: 20' TYPE C EAST/SOUTH: 10' TYPE B WEST: 20' TYPE C
	PROPOSED	NORTH: 10' MODIFIED EAST: 10' MODIFIED SOUTH: 4-10' MODIFIED WEST: 10-15' MODIFIED
DISTURBED AREA	470,000 SF (10.8 AC)	

ORANGE COUNTY SOLID WASTE STANDARD PLAN
NOTES (CONSTRUCTION WASTE):

- ALL EXISTING STRUCTURES 500 SQUARE FEET AND LARGER SHALL BE ASSESSED PRIOR TO THE ISSUANCE OF A DEMOLITION PERMIT TO ENSURE COMPLIANCE WITH THE COUNTY'S REGULATED RECYCLABLE MATERIALS ORDINANCE (RMO) AND TO ASSESS THE POTENTIAL FOR DECONSTRUCTION AND/OR THE REUSE OF SALVAGEABLE MATERIALS. CONTACT THE ORANGE COUNTY SW ENFORCEMENT OFFICER AT 919-968-2788 TO ARRANGE FOR THE ASSESSMENT.
- PURSUANT TO THE COUNTY'S RMO, CLEAN WOOD WASTE, SCRAP METAL, AND CORRUGATED CARDBOARD PRESENT IN CONSTRUCTION OR DEMOLITION WASTE MUST BE RECYCLED.
- PURSUANT TO THE COUNTY'S RMO, ALL HAULERS OF MIXED CONSTRUCTION AND DEMOLITION WASTE WHICH INCLUDES ANY REGULATED RECYCLABLE MATERIALS SHALL BE LICENSED BY ORANGE COUNTY.
- PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY ON THE SITE, THE APPLICANT SHALL HOLD A PRE-DEMOLITION/PRE-CONSTRUCTION CONFERENCE WITH SOLID WASTE STAFF. THIS MAY BE THE SAME PRE-CONSTRUCTION MEETING HELD WITH OTHER DEVELOPMENT/ENFORCEMENT OFFICIALS.
- THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS ('ACM') AND/OR OTHER HAZARDOUS MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH ANY AND ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND GUIDELINES.

LANDSCAPE PROTECTION NOTES:

- PLAN SHOWS RARE AND SPECIMEN TREES IN ACCORDANCE WITH THE ORDINANCE THAT WAS IN EFFECT AT THE TIME OF APPROVAL.
- LANDSCAPING SHALL BE COORDINATED TO PRESERVE EXISTING TREES AS MUCH AS POSSIBLE. CONFLICTS BETWEEN PROPOSED PLANTINGS AND EXISTING TREES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR REMEDIATION.
- ALL IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC CONTROLLERS THAT ACTIVATE THE SYSTEM ACCORDING TO A DESIRED FREQUENCY AND DURATION, AND SHALL ALSO BE EQUIPPED WITH RAIN OR SOIL MOISTURE SENSORS THAT WILL PREVENT IRRIGATION DURING PERIODS OF RAINFALL OR WHEN THERE IS SUFFICIENT MOISTURE IN THE GROUND FOR PLANT HEALTH AND SURVIVAL IN ACCORDANCE WITH THE LOCAL GOVERNMENT WATER CONSERVATION ORDINANCES.

PAVEMENT MARKING/SIGNAGE NOTES:

- ALL SIGNAGE SHALL BE COORDINATED WITH THE TOWN OF CHAPEL HILL.
- ALL SIGNAGE SHALL MEET MUTCD STANDARDS AND SPECIFICATIONS.
- ALL SIGNAGE SHALL MEET NCDOT PEDESTRIAN SAFETY SPECIFICATIONS.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) AND/OR TOWN OF CHAPEL HILL STANDARDS AND SPECIFICATIONS.
- ALL SIGNS SHALL BE PRISMATIC AND ADHERE TO THE MINIMAL RETROREFLECTIVITY STANDARDS FOUND IN THE LATEST VERSION OF THE MUTCD.
- ALL PAVEMENT MARKINGS ON PUBLIC STREETS SHALL BE THERMOPLASTIC AND ARE TO BE PLACED PER NCDOT STANDARDS (REFERENCE 2012 NCDOT DETAILS (1205.01-1205.12)
- SIGN DESIGNS FOR STREET NAME SIGNS SHALL BE APPROVED BY TRANSPORTATION/ENGINEERING DEPARTMENT STAFF TO ENSURE COMPLIANCE WITH MUTCD SPECIFICATIONS. DESIGNS MUST BE APPROVED BY TOWN STAFF PRIOR TO ACCEPTANCE OF STREETS OR ISSUANCE OF 1ST CO.
- ALL STREET NAME SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD INCLUDING MIXED CASE LETTERING, PROPOPER LETTER HEIGHTS, AND RETROREFLECTIVITY.

CONSTRUCTION MANAGEMENT NOTES:

- ALL LARGE TRUCKS AS RELATED TO VEHICULAR CONSTRUCTION TRAFFIC SHALL ENTER/LEAVE THE SITE THROUGH THE TEMPORARY CONSTRUCTION ENTRANCES & EXITS AS SHOWN ON THIS PLAN. LAND CLOSURES SHALL BE ESTABLISHED AS SHOWN ON THIS PLAN AND CONSTRUCTION PERSONNEL SHALL BE IN ATTENDANCE TO MANAGE AND DIRECT VEHICULAR AND PEDESTRIAN TRAFFIC.
- ENTRANCE AND EXIT GATES SHALL BE CLOSED UNLESS CONSTRUCTION OR DELIVERY VEHICLES ARE ENTERING OR EXITING THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL PROVIDE WORK ZONE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH ALL APPLICABLE NCDOT STANDARDS. REFER TO THE TRAFFIC AND PEDESTRIAN CONTROL PLAN FOR SPECIFIC NOTES AND DETAILS.
- NO OPEN BURNING SHALL BE PERMITTED.
- THE APPLICANT SHALL POST A CONSTRUCTION SIGN ON THE DEVELOPMENT SITE THAT LISTS THE FOLLOWING:
 - PROPERTY OWNER'S REPRESENTATIVE & TELEPHONE NUMBER
 - CONTRACTOR'S REPRESENTATIVE & TELEPHONE NUMBER
 - TELEPHONE NUMBER FOR REGULATORY INFO AT TIME OF BUILDING PERMIT
 - SIGN MAY BE A MAXIMUM OF 32 SF AND A MAXIMUM HEIGHT OF 8 FT.
- FENCING AROUND PROJECT SHALL INCLUDE ACCESS GATES WITH A 20-FOOT SWING OR SLIDE MOTION.
- CONSTRUCTION FENCE SHALL BE MODIFIED AS REQUIRED DURING CONSTRUCTION PHASING FOR PEDESTRIAN CIRCULATION.
- PRIOR TO ANY TRAFFIC LANE AND/OR SIDEWALK CLOSURES, THE APPLICANT SHALL CONTACT THE CHAPEL HILL TRAFFIC ENGINEERING OFFICE (919-969-5096 OR 919-969-5100) AT LEAST 5 WORKING DAYS BEFORE THE PROPOSED WORK TO APPLY FOR A LAND CLOSURE PERMIT.
- ROAD CLOSURES ON PUBLIC STREETS MUST BE COORDINATED WITH AND APPROVED BY THE TOWN OF CHAPEL HILL.
- TEMPORARY STREET ROAD SIGNS ARE REQUIRED AT EACH STREET INTERSECTION WHEN CONSTRUCTION OF NEW ROADS ALLOWS FOR THE PASSAGE OF VEHICLES. SIGNS SHALL BE OF APPROVED SIZE, WEATHER RESISTANT AND BE MAINTAINED UNTIL REPLACED BY PERMANENT SIGNS.
- CONTRACTOR TO PROVIDE DEDICATED ONSITE PARKING SPACES FOR INSPECTORS AT EACH BUILDING AND NEAR THE JOB TRAILER FOR THE DURATION OF CONSTRUCTION
- ROADS WITH CURB AND GUTTER AND THE FIRST LIFT OF ASPHALT WILL NEED TO BE CONSTRUCTED BEFORE COMBUSTIBLES ARE ON SITE IN ORDER TO MEET REQUIREMENTS FROM FIRE CODE, STORMWATER, AND OWASA. HYDRANTS SHALL BE ACTIVE IN THE AREAS FOR CONSTRUCTION.

GENERAL NOTES:

- CONTRACTOR TO NOTIFY SURROUNDING PROPERTIES 7 DAYS PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR TO PROVIDE NOTICE TO THE TOWN OF CHAPEL HILL REGARDING SPECIFIC DATES FOR ANY NECESSARY ROAD CLOSURES AND LANE REDUCTIONS.
- GENERAL CONTRACTOR TO COORDINATE WITH SPECIFIC PROPERTIES AFFECTED BY THE PROPOSED ROAD CLOSURES IF REQUIRED TO ENSURE CONTINUOUS ACCESS TO THE AFFECTED PROPERTIES.
- ALL SHOWN PARKING SPACE MARKINGS SHALL BE PER THE TOWN OF CHAPEL HILL CODE FOR PARKING LOTS.
- MINIMUM CORNER CLEARANCES FROM THE CURBLINE OF INTERSECTING STREETS SHALL BE AT LEAST 20' FROM THE POINT OF TANGENCY. NO DRIVEWAYS OR PARKING SPACES SHALL ENCRACH ON THIS MINIMUM CORNER CLEARANCE.
- WITHIN THE SIGHT DISTANCE TRIANGLES SHOWN, NO OBSTRUCTION BETWEEN 2' AND 8' IN HEIGHT ABOVE THE CURB LINE ELEVATION SHALL BE LOCATED IN WHOLE OR IN PART. OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO ANY BERM, FOLIAGE, FENCE, WALL, SIGN, OR PARKED VEHICLE.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF CHAPEL HILL, NCDOT AND OWASA STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS SHOWN ON SITE PLAN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
- EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO THE SUBSTITUTION OF ALTERNATE EQUIPMENT.
- CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
- PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL SCHEDULE AND HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF CHAPEL HILL ENGINEERING DEPARTMENT, ORANGE COUNTY SOIL AND EROSION DEPARTMENT, ENGINEER, AND OWNER/REPRESENTATIVE.
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- ALL STREET NAME SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD INCLUDING MIXED CASE LETTERING, PROPER LETTER HEIGHTS, AND RETROREFLECTIVITY.
- ALL ASPHALT EDGES SHALL BE SAW CUT TO PROVIDE A GOOD LONGITUDINAL JOINT. MILL 1.5 FEET AT 1.5 INCHES DEEP MINIMUM TO PROVIDE A LONGITUDINAL LAP JOINT FOR FINAL SURFACE LAYER. NO MILLING SHALL BE LEFT FOR A PERIOD OF TIME GREATER THAN 48 HOURS BEFORE A STREET IS TO BE REPAVED/RESURFACED.
- SEPARATE BUILDING PERMITS ARE REQUIRED FOR RETAINING WALLS, DUMPSTER ENCLOSURES, MONUMENTS, SIGNS, OR OTHER ACCESSORY STRUCTURES OR ELEMENTS.
- EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR RELOCATION OF ALL EXISTING UTILITIES IN COORDINATION WITH THE APPROPRIATE UTILITY, AGENCY, OR COMPANY.
- EXISTING CONTOURS ARE BASED ON SURVEY COMPLETED BY SUMMIT. EXISTING UTILITIES SHOWN ARE BASED ON SURVEY AND THE BEST AVAILABLE RECORDS. THE CONTRACTOR, HOWEVER, SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. FOR NECESSARY PLAN OR GRADE CHANGES, NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
- MECHANICAL EQUIPMENT MUST BE PLACED AT OR ABOVE THE BASE FLOOD ELEVATION PLUS 2 FEET.
- A ZONE FOR FIRE DEPARTMENT LADDERS AND FIREFIGHTING OPERATIONS MUST BE PROVIDED, REQUIRING ALL LINES TO BE BURIED SURROUNDING STRUCTURES.
- IF APPLICABLE, BACK WASH WATER FROM THE POOL SHALL DISCHARGE INTO THE SANITARY SEWER SYSTEM, NOT STORM SEWER, AND SHALL NOT EXCEED 50 GALLONS PER MINUTE.
- CONTRACTOR TO CONTACT THE CHAPEL HILL STORMWATER MANAGEMENT DIVISION AT 919-969-7246 TO SCHEDULE SITE INSPECTION AT LEAST TEN (10) DAYS IN ADVANCE OF REQUESTING THE CERTIFICATE OF OCCUPANCY.
- IMPROVEMENTS, STRUCTURES, FIXTURES, SIGNS, TABLES, CHAIRS, PLANTERS, OR ANY OTHER OBJECT SHALL NOT BE PLACED IN SIDEWALK AREAS FOR ANY PERIOD OF TIME.
- HVAC CONDENSATE AND FLOOR DRAINS FROM THE ROOFED PARKING AREA SHALL NOT BE CONNECTED TO THE STORM SEWER SYSTEM. NO ELEVATOR SUMP PUMP DISCHARGE MAY ENTER THE STORM SEWER SYSTEM.
- ANY ROOF DRAINS OR OTHER PLUMBING INTENDED TO DISCHARGE TO THE STORM SEWER SYSTEM NOT SHOWN ON THE APPROVED PLANS ARE NOT APPROVED. ANY DISCHARGE DIRECTED TO THE STORM SEWER SYSTEM THAT IS NOT APPROVED WILL NEED TO APPROVAL FROM THE TOWN OF CHAPEL HILL STORMWATER MANAGEMENT DIVISION.
- THE NORTH CAROLINA DEPARTMENT OF INSURANCE SHALL REVIEW AND APPROVE ANY PROJECTS LISTED IN TABLE 104.1 OF THE NORTH CAROLINA ADMINISTRATION AND POLICIES CODE BEFORE THE TOWN OF CHAPEL HILL WILL BEGIN ITS BUILDING PERMIT REVIEW.
- A SINGLE ELECTRICAL SERVICE SHALL BE PROVIDED TO SERVE THE STRUCTURE WITH THE EXCEPTION OF THE FIRE PUMP, IN ACCORDANCE WITH ARTICLE 230.2(A) OF THE 2017 NORTH CAROLINA ELECTRICAL CODE.
- CURB AND GUTTER AND ATLEAST THE FIRST LIFT OF ASPHALT FOR THE ROADS MUST BE PLACED PRIOR TO THE START OF CONSTRUCTION.
- PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL PROVIDE THE MINIMUM REQUIRED HANDICAPPED PARKING SPACES AND DESIGN ALL HANDICAPPED PARKING SPACES, RAMPS, CROSWALKS, AND ASSOCIATED INFRASTRUCTURE ACCORDING TO THE AMERICANS WITH DISABILITIES ACT STANDARDS, NORTH CAROLINA BUILDING CODE, AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) CODE, AND TOWN STANDARD.
 - A. THE NUMBER OF PARKING SPACES SHALL COMPLY WITH NCBC 2018 SECTION 1106.1, 1 PER 6 COMPLIANT SPACES OR PORTION THEREOF MUST BE VAN ACCESSIBLE. NO SLOPE SHALL EXCEED 2% IN ANY DIRECTION. SIGNAGE SHALL BE PLACES IN ACCORDANCE WITH NCBC 2018 REQUIREMENTS, MUTCD AND ACC A 117.1.
 - B. CURB CUTS AND ACCESSIBLE ROUTES PER ICC A117.1 2009 EDITION, CROSS SLOPE LIMITED TO 2%. CALL TOWN OF CHAPEL HILL BUILDING INSPECTIONS OFFICE FOR INSPECTION PRIOR TO PLACEMENT OF CONCRETE.
 - C. SLOPES GREATER THAN 5% REQUIRES CONSTRUCTION AS A RAMP.
- FINAL LOCATION OF GAS LINE INSTALLED BY DOMINION ENERGY TO BE VERIFIED IN FIELD PRIOR TO THE INSTALLATION OF ANY FURNISHINGS REQUIRING GAS CONNECTIONS, INCLUDING BUT NOT LIMITED TO FIRE PITS, FIRE TABLES AND OUTDOOR GRILLING STATIONS. CONTRACTOR SHALL COORDINATE WITH DOMINION ENERGY, LANDSCAPE ARCHITECT, ARCHITECT AND OWNER FOR CONNECTIONS TO GAS LINE. CONNECTIONS TO BE PROVIDED BY A LICENSED GAS FITTER/TECHNICIAN AND SHALL CONFIRM TO ALL LOCAL AND STATE REGULATIONS.

GRADING & STORM DRAINAGE NOTES:

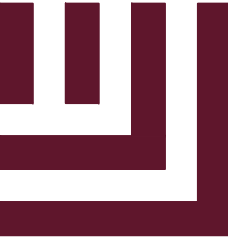
- CONTRACTOR SHALL NOTIFY NC 811 (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF NC 811. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE ORANGE COUNTY SOIL AND EROSION CONTROL OFFICER, TOWN OF CHAPEL HILL STORM WATER MANAGEMENT DIVISION, AND OWNER'S REP/ENGINEER.
- CONTRACTOR TO CONTACT JAMES HUGGINS WITH THE TOWN OF CHAPEL HILL AT 919-969-5088 TO POST EROSION CONTROL BOND, ALONGS WITH A PERFORMANCE GUARANTEE PER, PRIOR TO ANY LAND DISTURBANCE.
- GRADING AND CONTOURS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 88 (NAVDS8).
- SOIL UNDER BUILDINGS AND PAVED AREAS SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND SHOULD MEET OR EXCEED TOWN OF CHAPEL HILL STANDARDS.
- GRADING IN AREAS DESIGNATED AS "ACCESSIBLE" SHALL COMPLY WITH ALL FEDERAL AND LOCAL ACCESSIBILITY RULES AND GUIDELINES. EVEN THOUGH PLANS MAY NOT SHOW ALL SPOT ELEVATIONS IN THESE REGIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE AREAS ARE GRADED TO AMERICAN DISABILITY ACT (ADA) COMPLIANT SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AREAS WHERE SPILL CURB IS NECESSARY TO CONVEY RUNOFF TO THE NEAREST CATCH BASIN OR DROP INLET. THE OWNER AND/OR ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR CURBING INSTALLED PRIOR TO PAVING THAT DOES NOT DRAIN PROPERLY.
- ALL PROPOSED INLETS, CATCH BASINS, AND DROP INLETS SHALL BE PROTECTED BY EROSION CONTROL MEASURES AS SHOWN AND SPECIFIED ON THE EROSION CONTROL PLAN.
- THE CURB INLETS AND YARD INLETS SHALL BE CONSTRUCTED IN THE LOCATIONS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING ANY DISCREPANCIES IN THE CATCH BASIN ELEVATIONS OR THE PROPOSED PIPE SLOPES TO THE ENGINEER. THE CONTRACTOR IS ALSO RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN ANY UTILITY, STORM DRAIN LINE, WATER LINE, SEWER LINE OR ANY OTHER PROPOSED OR EXISTING STRUCTURE TO THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS. THE CONTRACTOR SHALL FIELD VERIFY GRADES SURROUNDING ALL BUILDINGS PRIOR TO GRADING ACTIVITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- PIPE SPECIFIED AS RCP MAY BE SUBSTITUTED IF APPROVED BY THE TOWN OF CHAPEL HILL WITH APPROVED MATERIALS PER THE TOWN OF CHAPEL HILL STANDARDS AND SPECIFICATIONS OUTSIDE OF PUBLIC RIGHT OF WAY AND EASEMENTS. ALL BEDDINGS FOR ALTERNATE MATERIALS SHALL CONFORM TO NCDOT, AASHTO AND ASTM SPECIFICATIONS.
- THE MINIMUM PIPE SIZE WITHIN A PUBLIC RIGHT-OF-WAY IS 15".
- FOR ALL PIPE OUTLETS 60" AND GREATER (SINGLE) AND 36" (MULTIPLE) HEADWALLS/ENDWALLS SHALL BE USED AND A 4" HIGH BLACK POLY COATED CHAIN LINK FENCE PLACED OVER THE WALL.
- FOR NPDES PERMIT COMPLIANCE: ALL SLOPES 3:1 AND STEEPER MUST BE STABILIZED WITHIN 7 DAYS, ALL OTHER AREAS MUST BE STABILIZED WITHIN 14 DAYS.
- ALL STORM PIPE SPECIFIED AS REINFORCED CONCRETE (RCP) SHALL BE MINIMUM CLASS III PIPE.
- ALL STORM PIPE SHALL BE LAID AT LEAST 10" HORIZONTALLY OR 18" VERTICALLY FROM ANY WATER MAIN AND 24" VERTICALLY FROM ANY SEWER MAIN. REFER TO NCAC 027 RULES FOR EXEMPTIONS.
- GEOTEXTILE FABRIC OR APPROVED EQUIVALENT ARE REQUIRED AT ALL DISSIPATOR PADS.

FIRE DEPARTMENT NOTES:

- SITE SHALL COMPLY WITH THE LATEST NATIONAL BUILDING AND FIRE CODES.
- FUNCTIONAL FIRE PROTECTION SHALL BE PROVIDED PRIOR TO THE ARRIVAL OF COMBUSTIBLE MATERIALS ON THE SITE.
- FIRE ACCESS ROUTE SHALL HAVE A MINIMUM RADIUS OF 28' (FACE OF CURB) TO ALLOW FIRE APPARATUS ACCESS THROUGH SITE (IFC 503.2.4).
- ANY GATES ACROSS FIRE APPARATUS ACCESS ROADS SHALL BE A MINIMUM WIDTH OF 20', BE OF SWINGING OR SLIDING TYPE AND HAVE AN EMERGENCY MEANS OF OPERATION. GATES IN FIRE TRUCK APPARATUS ACCESS ROUTES SHALL BE OPERABLE BY EITHER FORCIBLE ENTRY OR KEYED AND MUST BE CAPABLE OF BEING OPERATED MY ONE PERSON. ALL GATES IN FIRE TRUCK APPARATUS ACCESS ROUTES SHALL BE INSTALLED AND MAINTAINED ACCORDING TO UL375 AND ASTM F2200.
- ALL PORTIONS OF THE FIRST FLOOR OF THE BUILDING MUST BE WITHIN 150' OF THE FIRE ACCESS ROUTE (IFC 503.1.1), UNLESS OTHERWISE APPROVED BY THE FIRE MARSHALL.
- BUILDING ADDRESSES SHALL BE PLACED ON BOTH SIDES OF THE BUILDING ON A CLEARLY VISIBLE PLACARD FOR LOCATION PURPOSES.
- ALL FIRE TRUCK ACCESSIBLE ROUTES SHALL BE RATED FOR 80,000 LB AND HAVE A MINIMUM CLEAR WIDTH OF 26' (IFC 503.2.1) UNLESS OTHERWISE APPROVED BY THE FIRE MARSHALL.
- FIRE RISER ROOM SHALL BE EQUIPPED WITH AN EXTERNAL LOCK BOX.
- RISER ROOM SHALL HAVE ADEQUATE DRAINAGE FOR EMERGENCY RPZ DISCHARGE.
- PRIVATE FIRE SERVICE MAINS AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24, NC FPC 507.2.1.
- ALL CONSTRUCTION AND DEMOLITION CONDUCTED SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF 2018 NC FIRE CODE CHAPTER 33.
- OPEN BURNING OF TREES, LIMBS, STUMPS, AND CONSTRUCTION DEBRIS ASSOCIATED WITH THIS DISSECTION IS PROHIBITED.
- DURING CONSTRUCTION, VEHICLE ACCESS FOR FIRE FIGHTING SHALL BE PROVIDED. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION ALLOWS PASSAGE OF VEHICLES. SIGNS SHALL BE OF AN APPROVED SIZE, WEATHER RESISTANCE AND MAINTAINED UNTIL REPLACED BY PERMANENT SIGNS.
- THE OWNER/DEVELOPER SHALL DESIGNATE ONE PERSON TO BE THE FIRE PREVENTION PROGRAM SUPERINTENDENT WHO SHALL BE RESPONSIBLE FOR ENFORCING CHAPTER 14 OF THE NCFPC AND THE ON-SITE FIRE PREVENTION PROGRAM AND ENSURE THAT IT IS CARRIED OUT THROUGH COMPLETION OF THE PROJECT.
- A WORKING SPACE OF NOT LESS THAN 36" IN WIDTH AND DEPTH AND 78" IN HEIGHT SHALL BE PROVIDED ON ALL SIDES EXCEPT FOR WALL MOUNTED FDC'S UNLESS OTHERWISE APPROVED BY THE FIRE CODE OFFICIAL. THE FDC'S WHERE REQUIRED MUST BE PHYSICALLY PROTECTED BY AN APPROVES BARRIER FROM IMPACTS.
- ANY REQUIRED FDC'S FOR ANY BUILDING SHALL MEET THE DESIGN AND INSTALLATION REQUIREMENTS FOR THE CURRENT, APPROVED EDITION OF NFPA 13, 13D, 13R, OR 14 OF THE NCFPC 2018 AND TOWN ORDINANCES; 7-38 FOR LOCATIONS. FDC'S SHALL BE INSTALLED ON THE STREET/ADDRESS SIDE OF THE BUILDING AND WITHIN 100' OF A HYDRANT OR UNLESS OTHERWISE APPROVED BY THE FIRE CODE OFFICIAL AND SHALL NOT BE OBSTRUCTED OR HINDERED BY PARKING OR LANDSCAPING.
- WHERE A FIRE HYDRANT IS LOCATED ON A FIRE APPARATUS ACCESS ROAD, THE MINIMUM ROAD WIDTH SHALL BE 26 FEET (7925 mm), EXCLUSIVE OF SHOULDERS (SEE FIGURE D103.1).
- FIRE APPARATUS ACCESS ROADS SHALL NOT BE OBSTRUCTED IN ANY MANNER, INCLUDING THE PARKING OF VEHICLES. THE MINIMUM WIDTHS AND CLEARANCES ESTABLISHED IN SECTIONS 503.2.1 AND 503.2.2 SHALL BE MAINTAINED AT ALL TIMES. 2018 NCFPC 503.4 (FIRE)
- WHERE REQUIRED BY THE FIRE CODE OFFICIAL, APPROVED SIGNS OR OTHER APPROVED NOTICES OR MARKINGS THAT INCLUDE THE WORDS NO PARKING-FIRE LANE SHALL BE PROVIDED FOR FIRE APPARATUS ACCESS ROADS TO IDENTIFY SUCH ROADS OR PROHIBIT THE OBSTRUCTION THEREOF. THE MEANS BY WHICH FIRE LANES ARE DESIGNATED SHALL BE MAINTAINED IN A CLEAN AND LEGIBLE CONDITION AT ALL TIMES AND BE REPLACED OR REPAIRED WHEN NECESSARY TO PROVIDE ADEQUATE VISIBILITY. 2018 NCFPC SECTION 503.3 AND APPENDIX D D 103.6, D 103.6.1, D 103.6.2.
- THE FIRE CODE OFFICIAL IS AUTHORIZED TO REQUIRE THE INSTALLATION AND MAINTENANCE OF GATES OR OTHER APPROVED BARRICADES ACROSS FIRE APPARATUS ACCESS ROADS, TRAILS, OR OTHER ACCESSWAYS; NOT INCLUDING PUBLIC STREETS, ALLEYS, OR HIGHWAYS. ELECTRIC GATE OPERATORS, WHERE PROVIDED, SHALL BE LISTED IN ACCORDANCE WITH UL 325. GATES INTENDED FOR AUTOMATIC OPERATION SHALL BE DESIGNED, CONSTRUCTED, AND INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ASTM F2200. 2018 NCFPC SECTION 503 AND APPENDIX D103.
- THE GRADE OF THE FIRE APPARATUS ACCESS ROAD SHALL BE WITHIN THE LIMITS ESTABLISHED BY THE FIRE CODE OFFICIAL BASED ON THE FIRE DEPARTMENT'S APPARATUS.
 - 503.2.8 ANGLES OF APPROACH AND DEPARTURE. THE ANGLES OF APPROACH AND DEPARTURE FOR FIRE APPARATUS ACCESS ROADS SHALL BE WITHIN THE LIMITS ESTABLISHED BY THE FIRE CODE OFFICIAL BASED ON THE FIRE DEPARTMENT'S APPARATUS.
 - D 103.2 GRADE. FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 10 PERCENT IN GRADE. EXCEPTION: GRADES STEEPER THAN 10 PERCENT AS APPROVED BY THE FIRE CHIEF. 2018 NCFPC SECTION 503 AND APPENDIX D.

ORANGE WATER AND SEWER AUTHORITY UTILITY
NOTES:

- STANDARDS AND SPECIFICATIONS - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH OWASA STANDARDS AND SPECIFICATIONS LATEST REVISED EDITION.
- PRECONSTRUCTION CONFERENCE - A PRECONSTRUCTION CONFERENCE WITH THE OWASA CONSTRUCTION INSPECTOR IS REQUIRED BEFORE BEGINNING ANY UTILITY CONSTRUCTION.
- PROJECT ACCEPTANCE - IN ADDITION TO A FINAL INSPECTION APPROVED BY THE OWASA CONSTRUCTION INSPECTOR, THE FOLLOWING DOCUMENTS MUST BE RECEIVED AND APPROVED BY OWASA BEFORE ACCEPTANCE OF THE PROJECT AND THE SETTING OF METERS:
 - ENGINEER'S CERTIFICATION OF PUBLIC SEWER - ORIGINAL DOCUMENT
 - ASSET LETTER - ORIGINAL DOCUMENT
 - LETTER OF DEDICATION - ORIGINAL DOCUMENT
 - AS BUILT DRAWINGS (INCLUDING 1"=100' SCALE SITE PLAN) AS BUILTS OF SEWER CONSTRUCTION SUBJECT TO REVIEW AND APPROVAL BY NCDENR DIVISION OF WATER QUALITY.
 - MANHOLE DATA SHEETS
 - RECORDED PLAT
 - ORIGINAL RECORDED WATER AND SEWER DEEDS OF EASEMENT - PREPARED USING OWASA'S STANDARD FORM.
- SEWER STATEMENT - SEWER LINES UNDER CONSTRUCTION SHALL BE PLUGGED WITH A MECHANICAL PLUG AT THE FIRST MANHOLE UPSTREAM FROM THE POINT OF CONNECTION. PLUG SHALL BE PLACED IN THE OUTLET CONNECTION AND SECURED WITH STEEL CABLE. PLUG SHALL REMAIN IN PLACE UNTIL ACCEPTANCE OF LINES BY OWASA. WATER, STONE, DIRT, OR ANY OTHER DEBRIS SHALL NOT BE ALLOWED TO ENTER THE OWASA SANITARY SEWER SYSTEM DURING FLUSHING OPERATIONS OR AT ANY OTHER TIME. CONSTRUCTION TAKING PLACE IN THE VICINITY OF ANY EXISTING OWASA SEWER LINES OR MANHOLES SHALL NOT CAUSE ANY INFLOW OF SURFACE WATER OR DEBRIS TO ENTER THE REMAIN ACCESSIBLE AT ALL TIMES. THE OWNER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES INCURRED TO THE OWASA SANITARY SEWER SYSTEM AND FINES IMPOSED BY THE STATE OF NORTH CAROLINA DIVISION OF WATER QUALITY DUE TO SEWER SPILLS OR OVERFLOWS.
- SEWER SERVICES - SEWER SERVICES LOCATED WITHIN PUBLIC RIGHT-OF-WAY OR OWASA SEWER EASEMENTS MUST BE CONSTRUCTED OF DUCTILE IRON PIPE FROM THE TAP UP TO AND INCLUDING THE FIRST CLEAN-OUT. EXCEPT FOR DEAD END MANHOLES, ALL 4" INCH SEWER SERVICES MUST BE TAPPED INTO THE SEWER MAIN. ALL 6" SERVICES MUST BE CONNECTED TO A MANHOLE. CLEANOUTS SHALL BE SPACED NO MORE THAN 75 FEET APART. CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC RATED CONSTRUCTION.
- BLOCKING AND RODDING - RETAINER GLANDS TO BE USED ON ALL MECHANICAL JOINTS IN ADDITION TO RODDING AND BLOCKING.
- EXISTING VALVES - CONTRACTOR RESPONSIBLE FOR VERIFYING THAT EXISTING VALVE AT THE POINT OF CONNECTION TO THE OWASA SYSTEM IS ADEQUATE FOR PERFORMING AND PASSING HYDROSTATIC PRESSURE AND LEAKAGE TEST. CONTRACTOR, AT HIS EXPENSE, MAY OPTIONALLY REPLACE VALVE OR INSTALL A NEW VALVE FOR THE PURPOSE OF PERFORMING A PRESSURE TEST FOR NEW MAIN INSTALLATION. IF CONTRACTOR ELECTS TO PRESSURE TEST AGAINST EXISTING VALVE, CONTRACTOR ACCEPTS RESPONSIBILITY FOR ENSURING PASSING PRESSURE TEST IN ACCORDANCE WITH OWASA REQUIREMENTS. IN ANY CASE, NO CLAIM WHATSOEVER SHALL BE MADE AGAINST OWASA FOR FAILURE OF PRESSURE TEST. EXISTING WATER VALVES SHALL BE OPERATED BY OWASA PERSONNEL ONLY. VALVES THAT SEPARATE PRIORITY APPROVED WATER AND UNAPPROVED WATER ARE TO REMAIN CLOSED AT ALL TIMES. VALVES MAY BE TEMPORARILY OPENED FOR LOADING AND FLUSHING BY THE OWASA INSPECTOR ONLY.
- DECHLORINATION REQUIREMENTS - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NEUTRALIZATION OF CHLORINATED WATER AT THE POINT OF DISCHARGE FROM THE MAIN BEING TESTED. THIS SHALL OCCUR FOLLOWING CHLORINATED TO DISINFECT A MAIN OR ANY OTHER TIME WHEN ELEVATED LEVELS OF CHLORINE COULD POTENTIALLY BE DISCHARGED INTO THE ENVIRONMENT BY THE CONTRACTOR. AT THE TIME THE DISINFECTION AND PURITY TESTING PROCEDURES ARE DISCUSSED WITH THE OWASA CONSTRUCTION INSPECTOR, THE PROCEDURE FOR DECHLORINATION WILL BE COVERED. ABSOLUTELY NO FLUSHING, DISINFECTION, OR PURITY SAMPLING IS TO TAKE PLACE WITHOUT PRIOR APPROVAL OF A SAMPLING PLAN BY THE OWASA INSPECTOR.
- PLEASE BE ADVISED THAT OWASA APPROVAL OF THIS PROJECT IS FOR COMPLIANCE WITH OWASA POLICIES, STANDARDS, AND SPECIFICATIONS ONLY. ALL OTHER MATTERS PERTAINING TO THIS PROJECT ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. OWASA APPROVAL DOES NOT PRECLUDE THE DEVELOPER, PROJECT ENGINEER, CONTRACTOR, OR OTHER AGENTS OR PARTIES ACTING ON THEIR BEHALF FROM FULL COMPLIANCE WITH OWASA CURRENT STANDARDS, SPECIFICATIONS, AND PROCEDURES OR FROM COMPLYING WITH ANY AND ALL STATUTES, RULES, REGULATIONS, AND ORDINANCES WHICH MAY BE IMPOSED BY OTHER GOVERNMENT AGENCIES (LOCAL, STATE, AND FEDERAL) WHICH MAY HAVE JURISDICTION. VIOLATIONS WILL RESULT IN THE OWASA PROJECT APPROVAL BEING RESCINDED.
- CONTACT NC 811 (811 OR 1-800-632-4949) AND OWASA (919-968-4421) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION TO HAVE EXISTING UTILITIES LOCATED.
- DISCHARGE FROM THIS PROJECT MUST BE IN COMPLIANCE WITH THE OWASA SEWER USE ORDINANCE. A GREASE INTERCEPTOR SHALL BE PROVIDED WHEN IN THE OPINION OF OWASA IT IS NECESSARY FOR THE PROPER HANDLING OF WASTEWATER CONTAINING EXCESSIVE AMOUNTS OF GREASE. ALL INTERCEPTION UNITS MUST BE OF THE TYPE AND CAPACITY WHICH IS CERTIFIED BY THE PROJECT ENGINEER AS MEETING THE REQUIREMENTS OF OWASA.
- BACKFLOW PREVENTION WILL BE REQUIRED IN ACCORDANCE WITH OWASA CROSS-CONNECTION CONTROL ORDINANCE AND MANUAL.
- DOMESTIC SERVICE TO INCLUDE REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY.
- FIRE SERVICE TO INCLUDE RPDA BACKFLOW DEVICE.
- FIRE PROTECTION SYSTEMS - PRESSURE TESTING, CHLORINATION, AND PURITY TESTING SHALL BE COMPLETED BEFORE THE INSTALLATION OF THE RPDA UNIT.
- REMOTE READ-OUT DEVICES - RPDA AND RPZ DEVICES LOCATED INSIDE BUILDINGS MUST BE EQUIPPED WITH AN AMR METER TO BE PURCHASED FROM OWASA AND INSTALLED BY THE CONTRACTOR. CONTACT THE OWASA CONSTRUCTION INSPECTOR FOR DETAILS OF THIS INSTALLATION.
- FOR FIRE SERVICE BACKFLOW DEVICES, USE A DOUBLE CHECK DETECTOR, REDUCED PRESSURE ZONE ASSEMBLY MEETING THE STANDARDS OF THE OWASA CROSS CONNECTION CONTROL ORDINANCE AND MANUAL. INSTALL THE DEVICE IN AN INTERNAL RISER ROOM WITH EXTERNAL ACCESS. CLEARANCES SHALL COMPLY WITH THE OWASA CROSS CONNECTION CONTROL ORDINANCES AND MANUAL. ACCESS TO RISER ROOM FROM OUTSIDE SHALL INCLUDE PROVISIONS FOR THE FIRE DEPARTMENT SUCH AS A KNOX BOX.
- ALL BUILDINGS WITH FIRE SUPPRESSION LINES MUST HAVE BACKFLOW DEVICES LOCATED INSIDE THE BUILDING IN AN ABOVE GROUND LOCATION ADJACENT TO THE OUTSIDE WALL WHERE THE WATERLINE ENTERS THE BUILDING.
- FOR IRRIGATION SERVICE BACKFLOW DEVICE, USE A REDUCED PRESSURE ZONE ASSEMBLY MEETING THE STANDARDS OF THE OWASA CROSS CONNECTION CONTROL ORDINANCE AND MANUAL. INSTALL THE IRRIGATION DEVICE INSIDE AN ABOVE GROUND HOT BOX.
- UNDERGROUND VAULTS FOR METERS SHALL BE DRAINED BY PVC SCHEDULE 40 DRAINS TO DAYLIGHT INTO SLOPES. CONNECTION TO STORM STRUCTURES IS ONLY ALLOWED WITH THE CONSENT OF OWASA. DRAIN SIZES SHALL BE 2" DIAMETER FOR METERS OR DEVICES LESS THAN 2" AND SHALL BE 4" DIAMETER FOR DEVICES OVER 2".
- CONNECTION OF SANITARY SEWER SERVICE TO AN EXISTING MANHOLE SHALL COMPLY WITH OWASA STANDARDS, INCLUDING: CORE DRILL FOR OPENING INTO MANHOLE AND INSTALL WITH FLEXIBLE BOOT. IF PAVEMENT CUT IS REQUIRED, CONTRACTOR SHALL PATCH PAVEMENT IN ACCORDANCE WITH TOWN OF CHAPEL HILL STANDARDS AND PROPER GEOTECHNICAL INFORMATION FOR SOIL LOADING.
- IF HYDRAULIC ELEVATORS ARE USED THE SUMP MUST BE PLUMBED TO SANITARY SEWER LINES.
- FIRE HYDRANTS MUST BE FULLY FUNCTIONAL AND PHYSICALLY APPROVED BY OWASA BEFORE COMBUSTIBLE MATERIALS CAN BE BROUGHT ON TO THE SITE.



McADAMS
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CHAPEL HILL, NC 27517



REVISIONS

NO.	DATE	REVISED PER	1ST	C2P	COMMENTS
	11.23.2022				

PLAN INFORMATION

PROJECT NO.	TLA-22001
FILENAME	TLA22001-N1
CHECKED BY	SJC
DRAWN BY	WHM
SCALE	NTS
DATE	09.29.2022

SHEET

PROJECT NOTES

C0.00

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

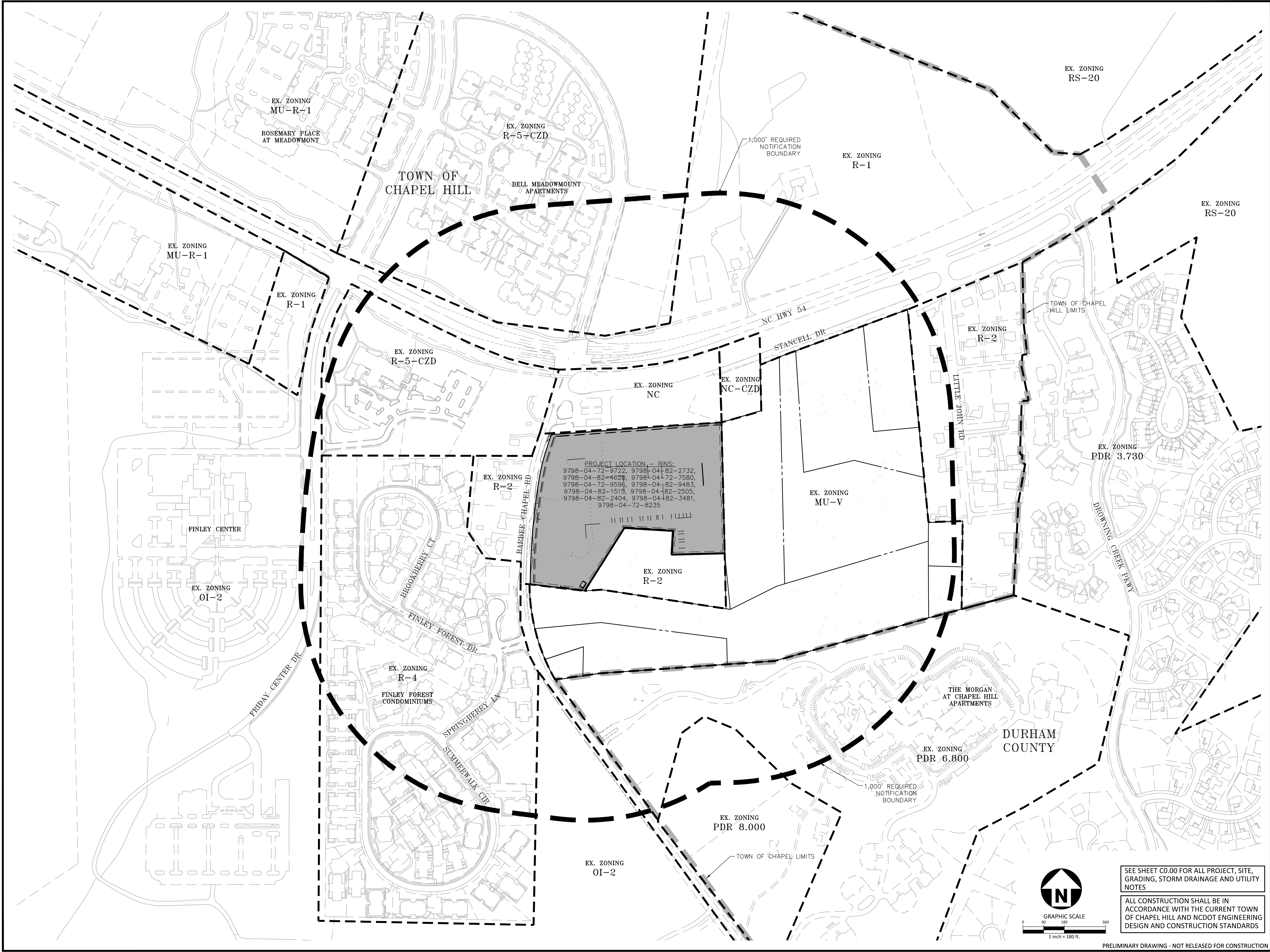


Know what's below.
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CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

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REVISIONS

NO.	DATE	REVISION
1	11.23.2022	REVISED PER 1ST CZP COMMENTS

PLAN INFORMATION

PROJECT NO.	TLA-22001
FILENAME	TLA22001-AM1
CHECKED BY	SJC
DRAWN BY	WHM/JLJ
SCALE	1" = 180'
DATE	09.29.2022

SHEET

AREA MAP

C0.01

SEE SHEET C0.00 FOR ALL PROJECT, SITE,
GRADING, STORM DRAINAGE AND UTILITY
NOTES

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REVISIONS

NO.	DATE	REVISION
11.23.2022	REVISED PER 1ST CIP COMMENTS	

PLAN INFORMATION

PROJECT NO.	TLA-22001
FILENAME	TLA22001-XC1
CHECKED BY	SJC
DRAWN BY	WHM/UL
SCALE	1" = 40'
DATE	09.29.2022

SHEET

EXISTING CONDITIONS

C1.00

(A) PARCEL A DON PENDERGRAFT PIN:9798-82-24-8347 PID:141879 2 ELMDALE DR D.B. 1613, PG. 446 25,810 SQ.FT. 0.59 AC.	(G) PARCEL G QUENTIN KRANTZ PIN:9798-82-24-0401 PID:141877 110 PEARL LN D.B. 8911, PG. 653 17,024 SQ.FT. 0.39 AC.
(B) PARCEL B FRANK HERLANT PIN:9798-82-24-0401 PID:141878 6 ELMDALE DR D.B. 8911, PG. 659 21,676 SQ.FT. 0.50 AC.	(H) PARCEL H QUENTIN KRANTZ PIN:9798-82-27-2292 PID:141896 111 PEARL LN D.B. 8911, PG. 656 47,038 SQ.FT. 1.08 AC.
(C) PARCEL C STEPHEN PENDERGRAFT, ET AL. PIN:9798-82-24-2595 PID:141882 5105 BARBEE CHAPEL RD D.B. 9659, PG. 517 79,258 SQ.FT. 1.82 AC.	(I) PARCEL I DONNA SAYERS PIN:9798-82-34-6161 PID:141895 114 PEARL LN D.B. 2598, PG. 537 62,768 SQ.FT. 1.44 AC.
(D) PARCEL D SANDY PENDERGRAFT, ET AL. PIN:9798-72-75-8083 PID:141880 5101 BARBEE CHAPEL RD D.B. 7565, PG. 832 P.B. 35, PG. 34 59,827 SQ.FT. 1.37 AC.	(J) PARCEL J RODERICK ROBERSON PIN:9798-82-46-2809 PID:141894 115 PEARL LN D.B. 1463, PG. 403 45,142 SQ.FT. 1.04 AC.
(E) PARCEL E FRANK HERLANT PIN:9798-72-95-9660 PID:141881 102 PEARL LN D.B. 2605, PG. 579 24,839 SQ.FT. 0.57 AC.	AREA IN PEARL LN AND ELMDALE DR THAT IS NOT INCLUDED IN ANY LOT 10,090 SQ.FT. 0.23 AC.
(F) PARCEL F SQUARE WHEEL VENTURES LLC PIN:9798-72-97-2169 PID:141875 105 PEARL LN D.B. 8420, PG. 922 62,368 SQ.FT. 1.43 AC.	
PARCEL A 25,810 SQ.FT./0.59 AC.	
PARCEL B 21,676 SQ.FT./0.50 AC.	
PARCEL C 79,258 SQ.FT./1.82 AC.	
PARCEL D 59,827 SQ.FT./1.37 AC.	
PARCEL E 24,839 SQ.FT./0.57 AC.	
PARCEL F 62,368 SQ.FT./1.43 AC.	
PARCEL G 17,024 SQ.FT./0.39 AC.	
PARCEL H 47,038 SQ.FT./1.08 AC.	
PARCEL I 62,768 SQ.FT./1.44 AC.	
PARCEL J 45,142 SQ.FT./1.04 AC.	
REMAINDER AREA 10,090 SQ.FT./0.23 AC.	
TOTAL AREA 45,5841 SQ.FT./10.46 AC.	

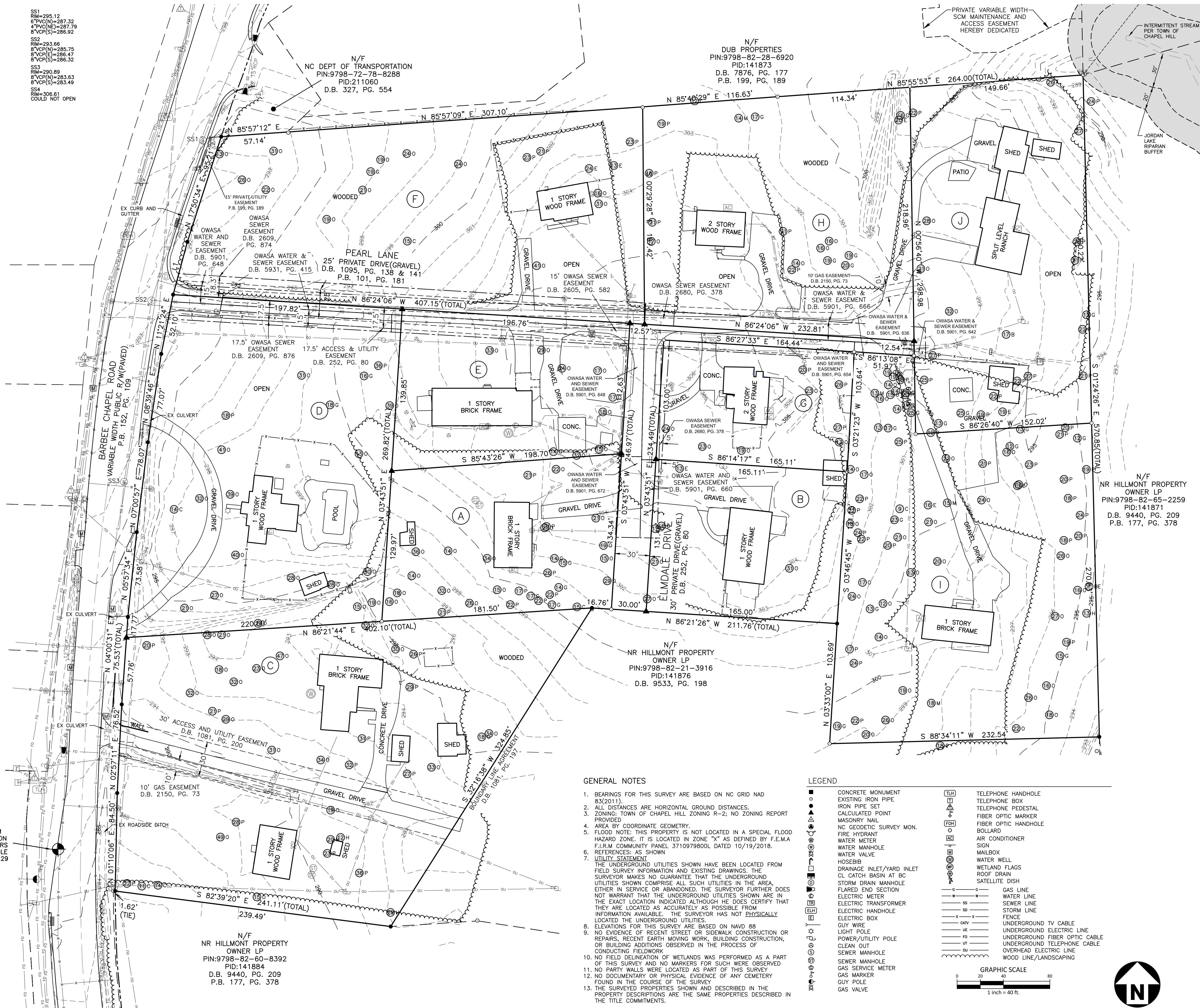
TREE LEGEND

10E	ELM
12G	SWEET GUM
9HW	MISC. HARDWOOD
16H	HICKORY
15M	MAPLE
31O	OAK
18P	PINE
16PO	POPLAR
14SY	SYCAMORE

SEE SHEET C0.00 FOR ALL PROJECT, SITE,
GRADING, STORM DRAINAGE AND UTILITY
NOTES

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DESIGN AND CONSTRUCTION STANDARDS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



GENERAL NOTES

- BEARINGS FOR THIS SURVEY ARE BASED ON NC GRID NAD 83(2011).
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
- ZONING: TOWN OF CHAPEL HILL ZONING R-2; NO ZONING REPORT PROVIDED.
- AREA BY COORDINATE GEOMETRY.
- FLOOD NOTE: THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY F.E.M.A. F.I.R.M. COMMUNITY PANEL 3710979800L DATED 10/19/2018.
- REFERENCES: AS SHOWN.
- UTILITY STATEMENT
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE 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 HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
- ELEVATIONS FOR THIS SURVEY ARE BASED ON NAVD 88.
- NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS, RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING FIELDWORK.
- NO FIELD DELINEATION OF WETLANDS WAS PERFORMED AS A PART OF THIS SURVEY AND NO MARKERS FOR SUCH WERE OBSERVED.
- NO PARTY WALLS WERE LOCATED AS PART OF THIS SURVEY.
- NO DOCUMENTARY OR PHYSICAL EVIDENCE OF ANY CEMETERY FOUND IN THE COURSE OF THE SURVEY.
- THE SURVEYED PROPERTIES SHOWN AND DESCRIBED IN THE PROPERTY DESCRIPTIONS ARE THE SAME PROPERTIES DESCRIBED IN THE TITLE COMMITMENTS.

LEGEND

CONCRETE MONUMENT	TELEPHONE HANDHOLE
EXISTING IRON PIPE	TELEPHONE BOX
IRON PIPE SET	TELEPHONE PEDESTAL
CALCULATED POINT	FIBER OPTIC MARKER
MASONRY NAIL	FIBER OPTIC HANDHOLE
NC GEODETIC SURVEY MON.	BOLLARD
FIRE HYDRANT	AIR CONDITIONER
WATER METER	SIGN
WATER MANHOLE	MAILBOX
WATER VALVE	WATER WELL
HOSEBIB	WETLAND FLAGS
DRAINAGE INLET/YARD INLET	ROOF DRAIN
CL CATCH BASIN AT BC	SATELLITE DISH
STORM DRAIN MANHOLE	
FLARED END SECTION	
ELECTRIC METER	
ELECTRIC TRANSFORMER	
ELECTRIC HANDHOLE	
ELECTRIC BOX	
GUY WIRE	
LIGHT POLE	
POWER/UTILITY POLE	
CLEAN OUT	
SEWER MANHOLE	
SEWER MANHOLE	
GAS SERVICE METER	
GAS MARKER	
GUY POLE	
GAS VALVE	

GRAPHIC SCALE
1 inch = 40 ft.





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REVISIONS

NO.	DATE	
	11.23.2022	REVISED PER 1ST CZP COMMENTS

PLAN INFORMATION

PROJECT NO.	TLA-22001
FILENAME	TLA22001-SS1
CHECKED BY	SJC
DRAWN BY	WHM
SCALE	1" = 40'
DATE	09.29.2022

SHEET

STEEP SLOPES PLAN

C1.01



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	11.23.2022	REVISED PER 1ST CZP COMMENT

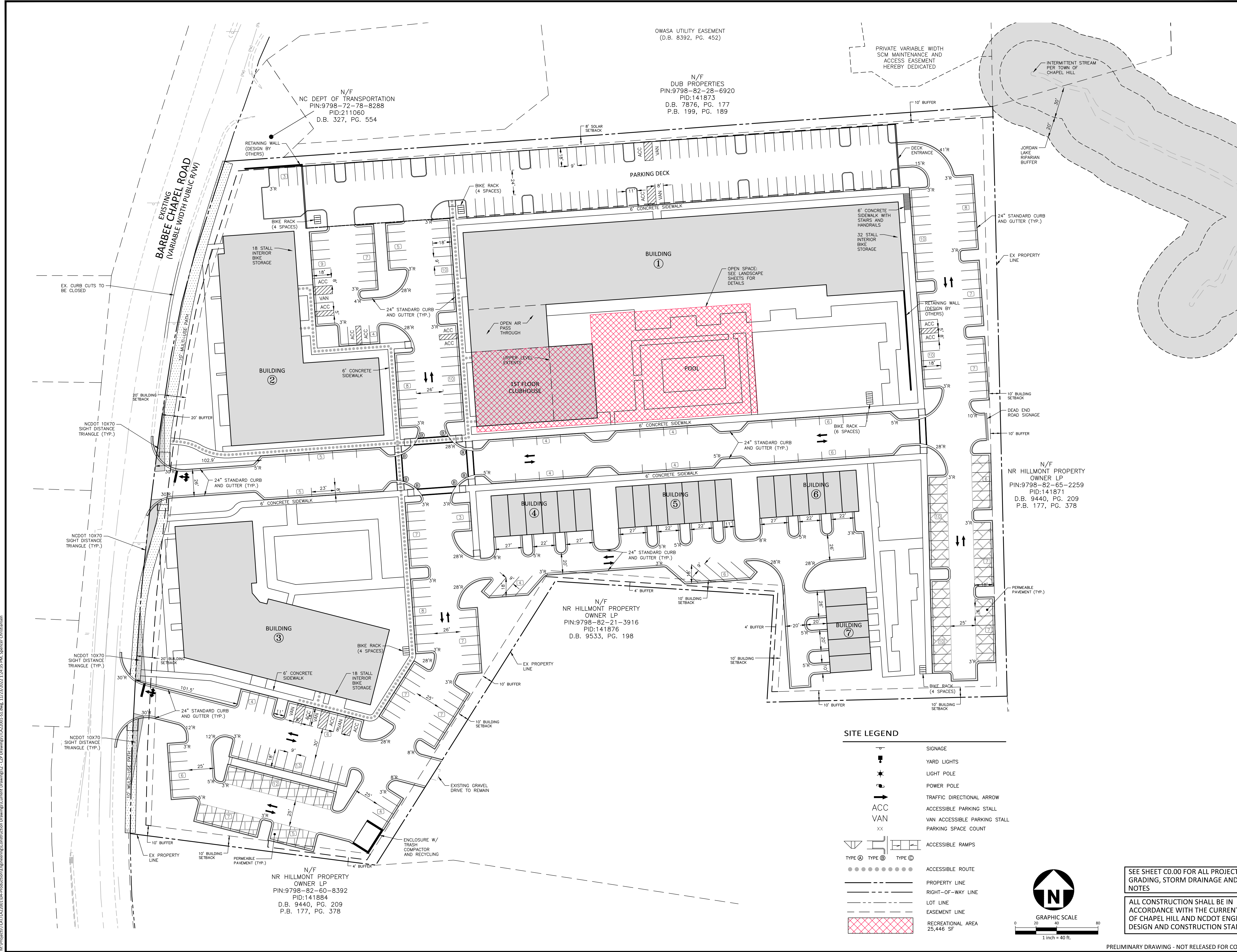
PLAN INFORMATION

PROJECT NO.	TLA-22001
FILENAME	TLA22001-S
CHECKED BY	SJC
DRAWN BY	WHM
SCALE	1" = 40'
DATE	09.29.2022

SHEET

SITE PLAN

C2.00



SEE SHEET C0.00 FOR ALL PROJECT, SITE,
GRADING, STORM DRAINAGE AND UTILITY
NOTES

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PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

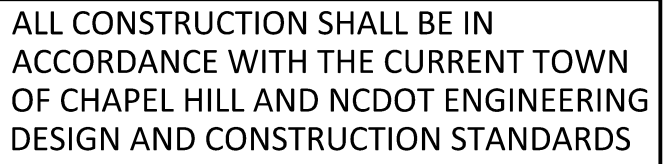


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M:\Projects\TLA\TLA22001\04-Production\Engineering\Current Drawings\2 - CZP Drawings\TLA22001-SW1.dwg, 11/23/2022 1:24:43 PM, Spencer Christiansen

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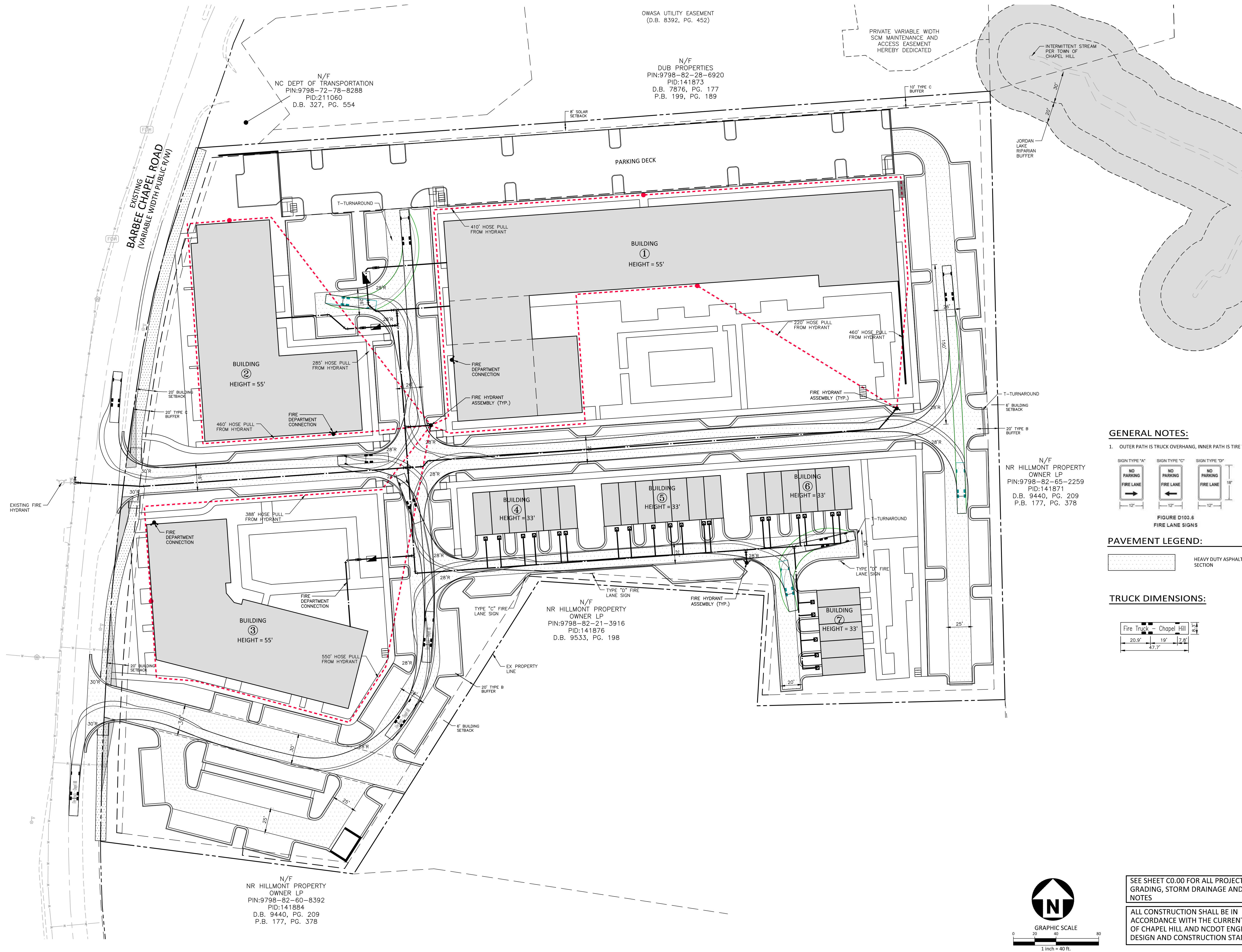


REVISIONS		
NO.	DATE	REVISION
1	11.23.2022	REVISED PER 1ST CZP COMMENTS

PLAN INFORMATION	
PROJECT NO.	TLA-22001
FILENAME	TLA22001-FP1
CHECKED BY	SJC
DRAWN BY	WHM/JLJ
SCALE	1" = 40'
DATE	09.29.2022

**SHEET
FIRE PROTECTION PLAN**

C2.02



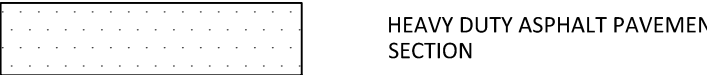
GENERAL NOTES:

1. OUTER PATH IS TRUCK OVERHANG, INNER PATH IS TIRE TRACKING

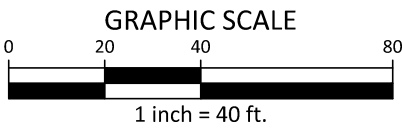
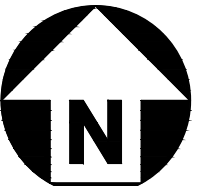
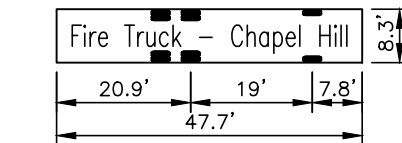


FIGURE D103.6
FIRE LANE SIGNS

PAVEMENT LEGEND:



TRUCK DIMENSIONS:



SEE SHEET C0.00 FOR ALL PROJECT, SITE,
GRADING, STORM DRAINAGE AND UTILITY
NOTES

ALL CONSTRUCTION SHALL BE IN
ACCORDANCE WITH THE CURRENT TOWN
OF CHAPEL HILL AND NCDOT ENGINEERING
DESIGN AND CONSTRUCTION STANDARDS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



McAdams

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1140 VIRGINIA DR
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PHONE: 202.577.6491



BARBEE CHAPEL APARTMENTS
CONDITIONAL ZONING PERMIT
DRAWINGS
5101 BARBEE CHAPEL RD
CHAPEL HILL, NC 27517



REVISIONS

NO.	DATE	REVISION
1	11.23.2022	REVISED PER 1ST CZP COMMENTS

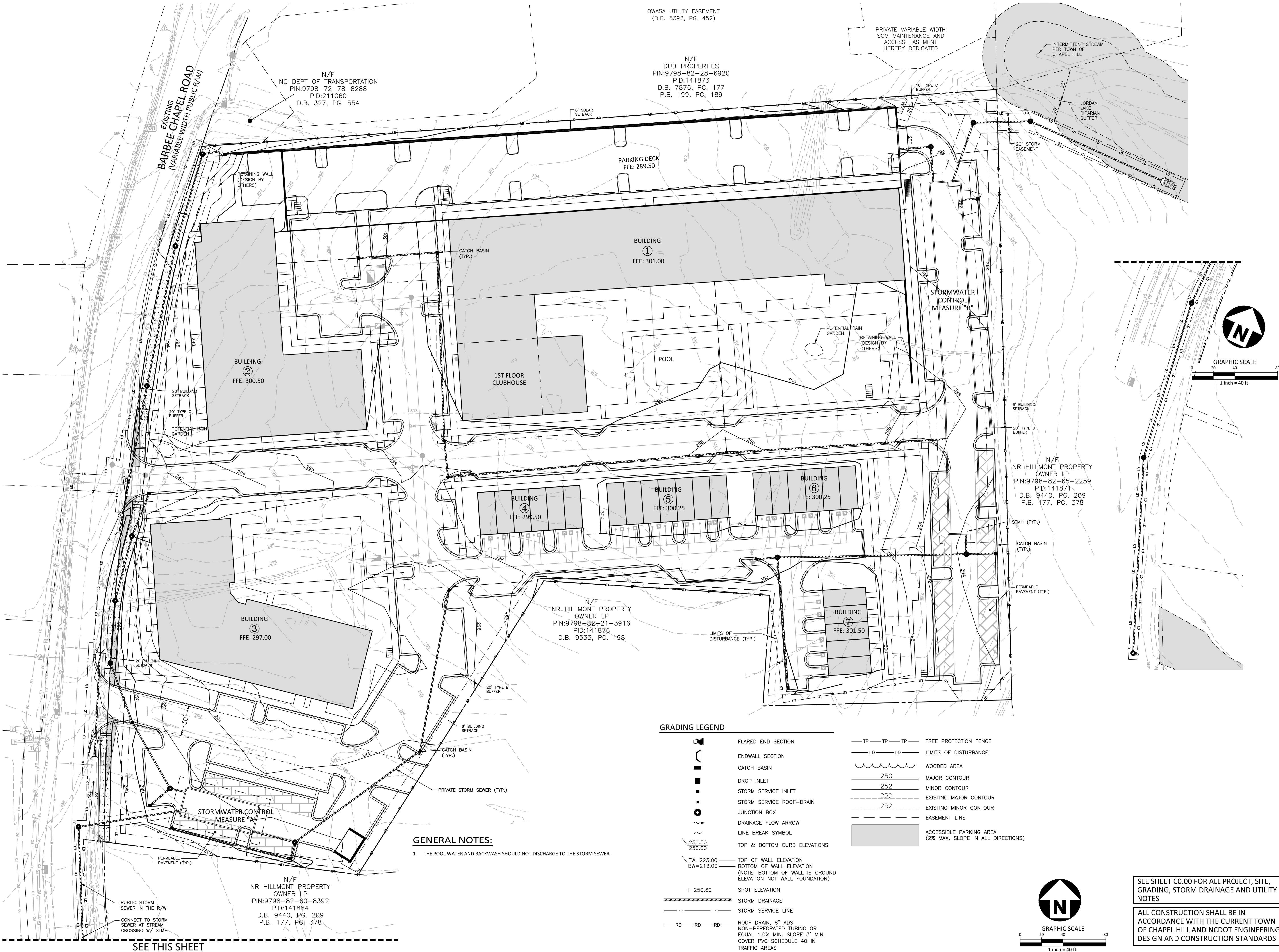
PLAN INFORMATION

PROJECT NO.	TLA-22001
FILENAME	TLA22001-G1
CHECKED BY	SJC
DRAWN BY	WHM
SCALE	1" = 40'
DATE	09.29.2022

SHEET

GRADING PLAN

C3.00



GENERAL NOTES:

1. THE POOL WATER AND BACKWASH SHOULD NOT DISCHARGE TO THE STORM SEWER.

SEE SHEET C0.00 FOR ALL PROJECT, SITE,
GRADING, STORM DRAINAGE AND UTILITY
NOTES

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1	11.23.2022	REVISED PER 1ST CZP COMMENTS

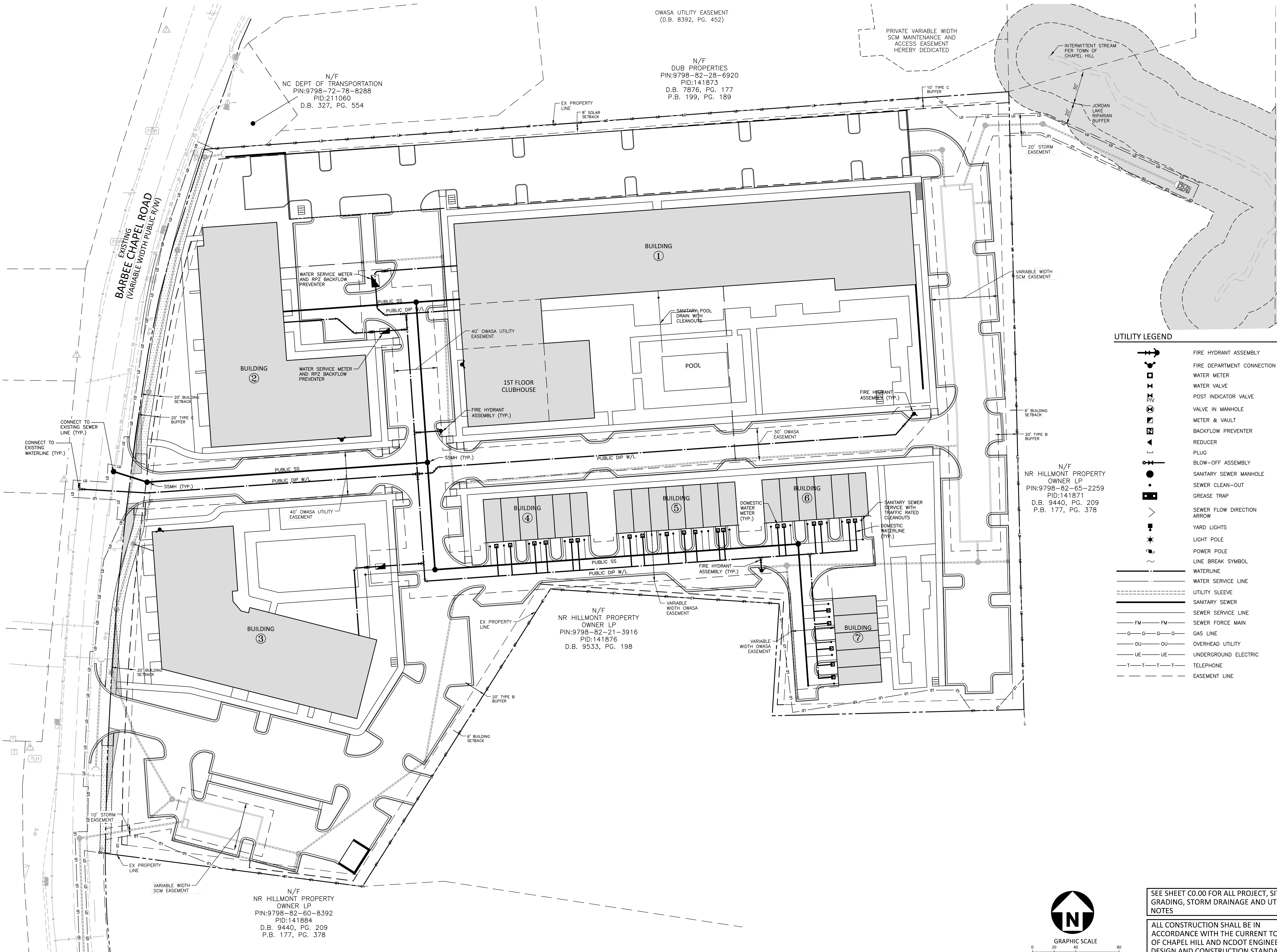
PLAN INFORMATION

PROJECT NO.	TLA-22001
FILENAME	TLA22001-U1
CHECKED BY	SJC
DRAWN BY	WHM/LJL
SCALE	1" = 40'
DATE	09.29.2022

SHEET

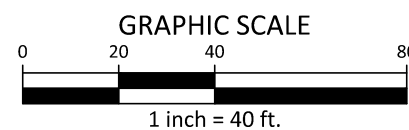
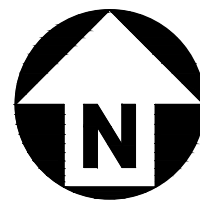
UTILITY PLAN

C4.00



UTILITY LEGEND

	FIRE HYDRANT ASSEMBLY
	FIRE DEPARTMENT CONNECTION (FDC)
	WATER METER
	WATER VALVE
	POST INDICATOR VALVE
	VALVE IN MANHOLE
	METER & VAULT
	BACKFLOW PREVENTER
	REDUCER
	PLUG
	BLOW-OFF ASSEMBLY
	SANITARY SEWER MANHOLE
	SEWER CLEAN-OUT
	GREASE TRAP
	SEWER FLOW DIRECTION ARROW
	YARD LIGHTS
	LIGHT POLE
	POWER POLE
	LINE BREAK SYMBOL
	WATERLINE
	WATER SERVICE LINE
	UTILITY SLEEVE
	SANITARY SEWER
	SEWER SERVICE LINE
	SEWER FORCE MAIN
	GAS LINE
	OVERHEAD UTILITY
	UNDERGROUND ELECTRIC
	TELEPHONE
	EASEMENT LINE



SEE SHEET C0.00 FOR ALL PROJECT, SITE,
GRADING, STORM DRAINAGE AND UTILITY
NOTES

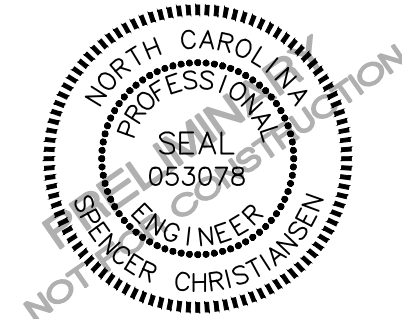
ALL CONSTRUCTION SHALL BE IN
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DESIGN AND CONSTRUCTION STANDARDS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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Toll Brothers
APARTMENT LIVING

BARBEE CHAPEL APARTMENTS
CONDITIONAL ZONING PERMIT
DRAWINGS
5101 BARBEE CHAPEL RD
CHAPEL HILL, NC 27517



REVISIONS		
NO.	DATE	REVISION
11.23.2022		REVISED PER 1ST C2P COMMENTS

PLAN INFORMATION

PROJECT NO.	TLA-22001
FILENAME	TLA22001-D1
CHECKED BY	SJC
DRAWN BY	WHM/JLL
SCALE	NTS
DATE	09.29.2022

SHEET

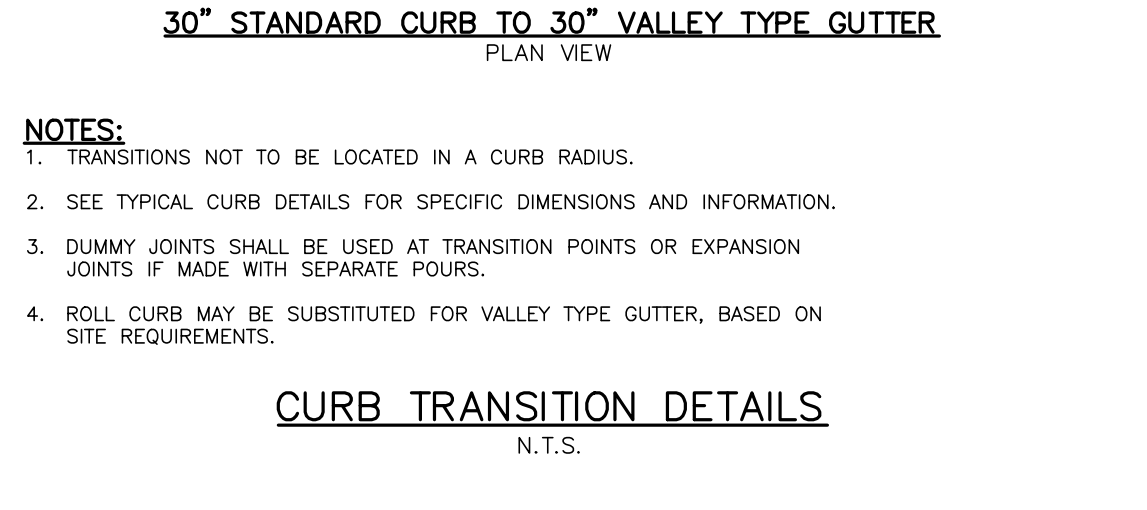
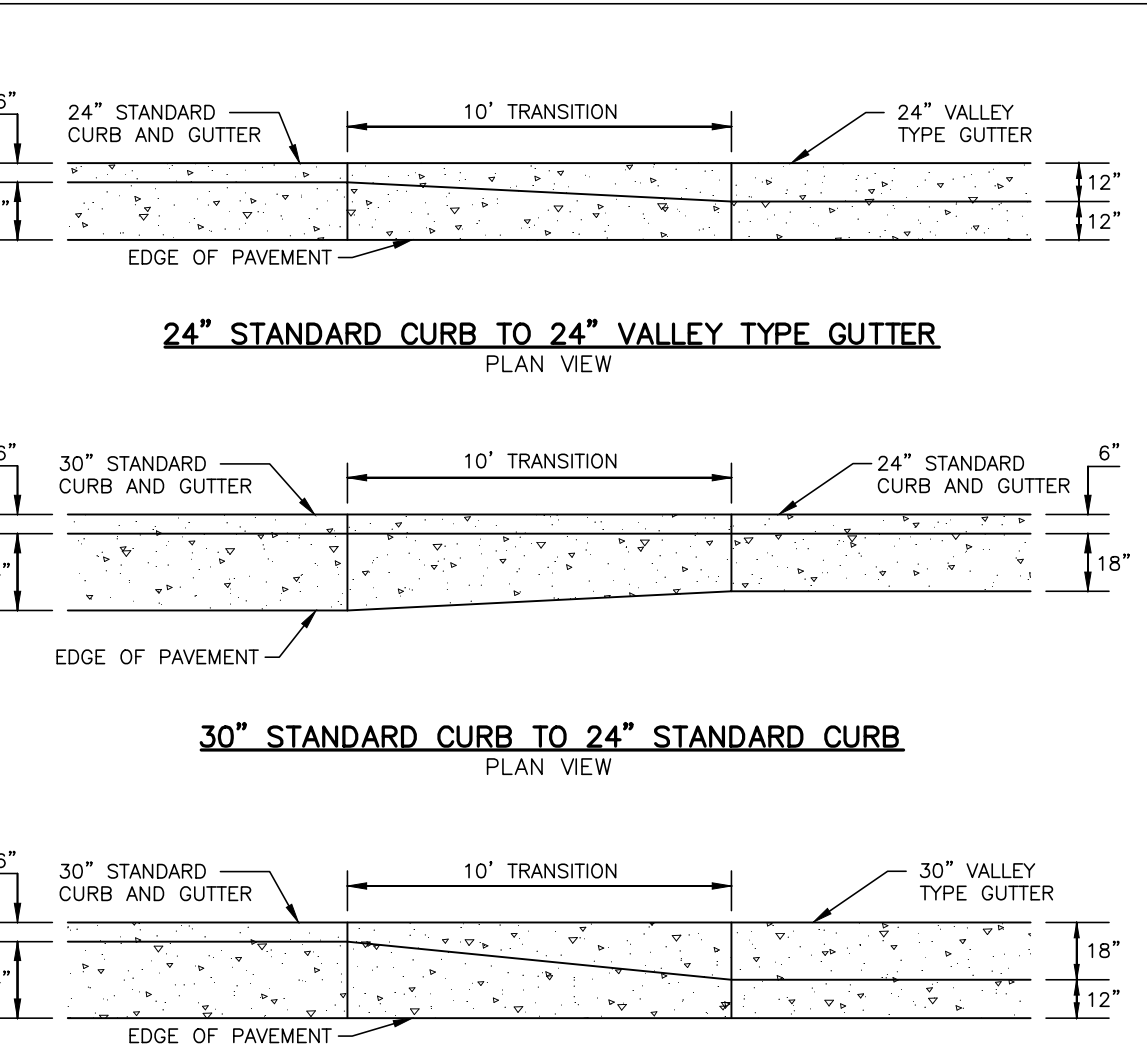
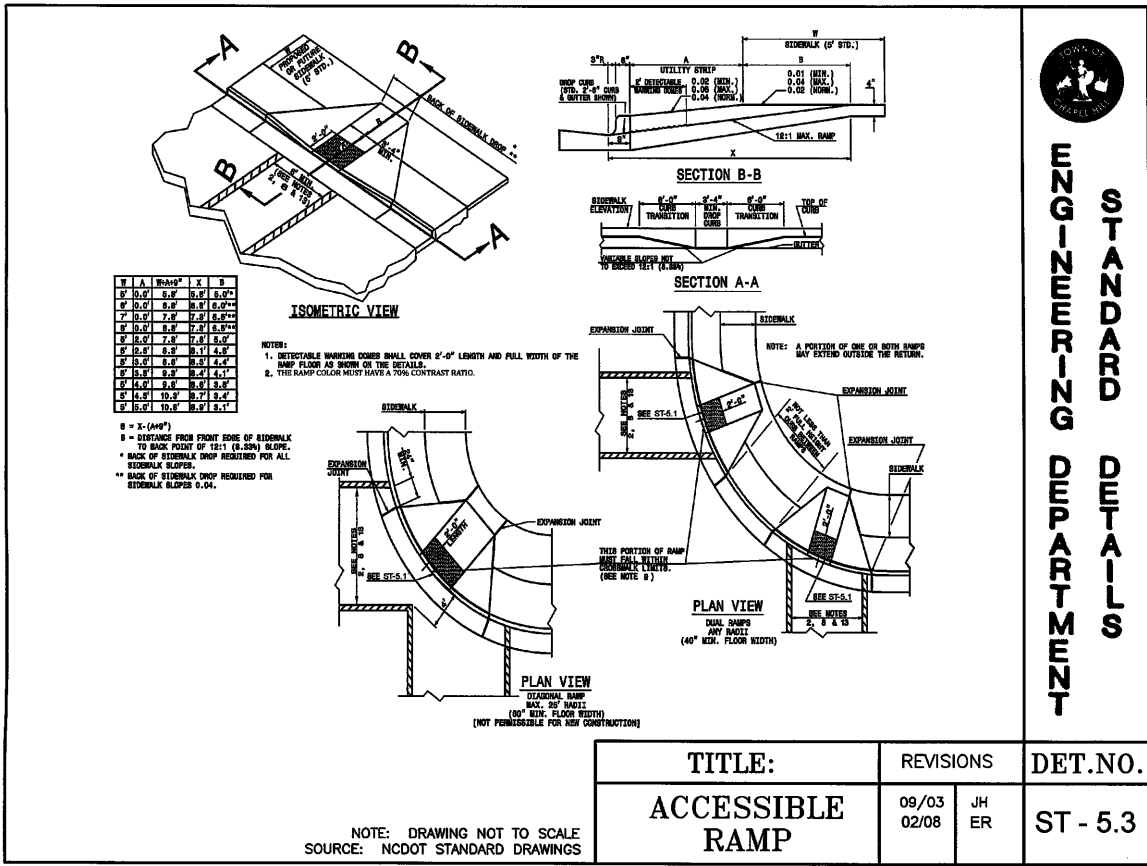
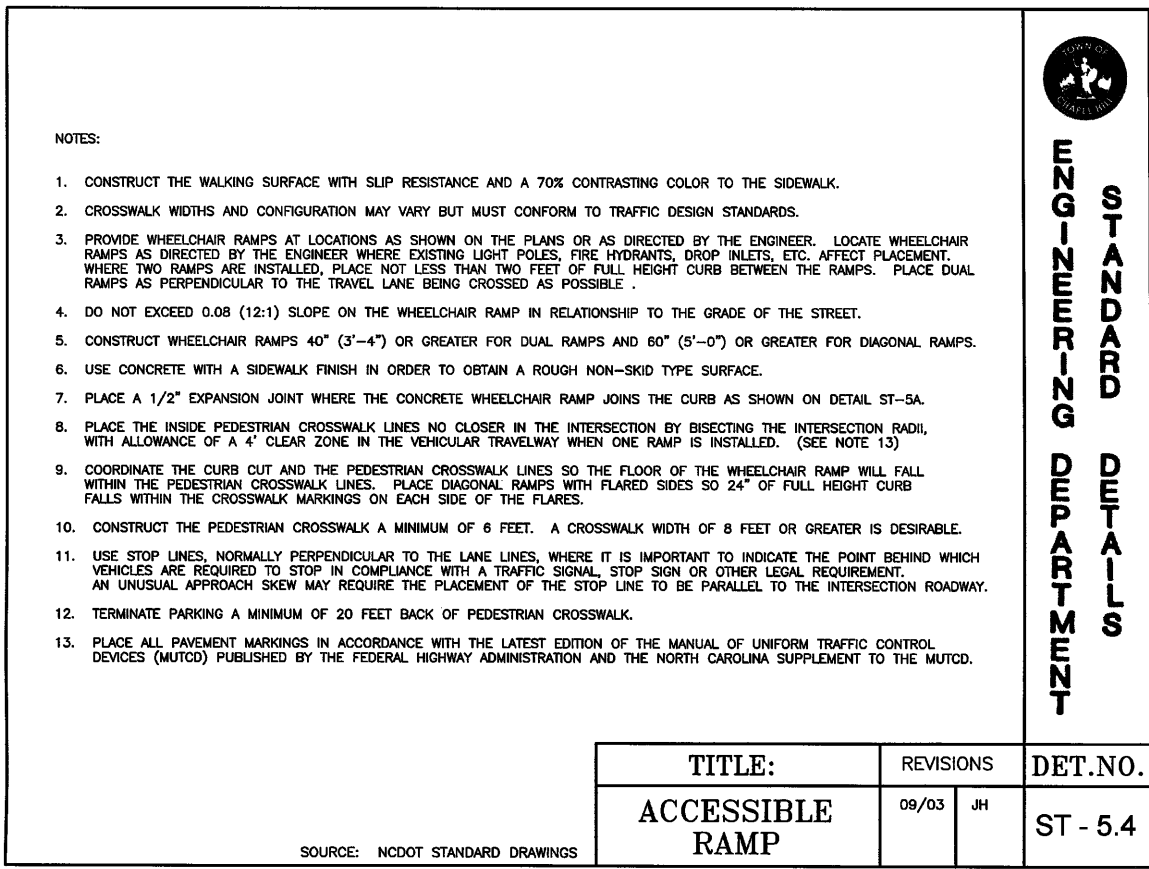
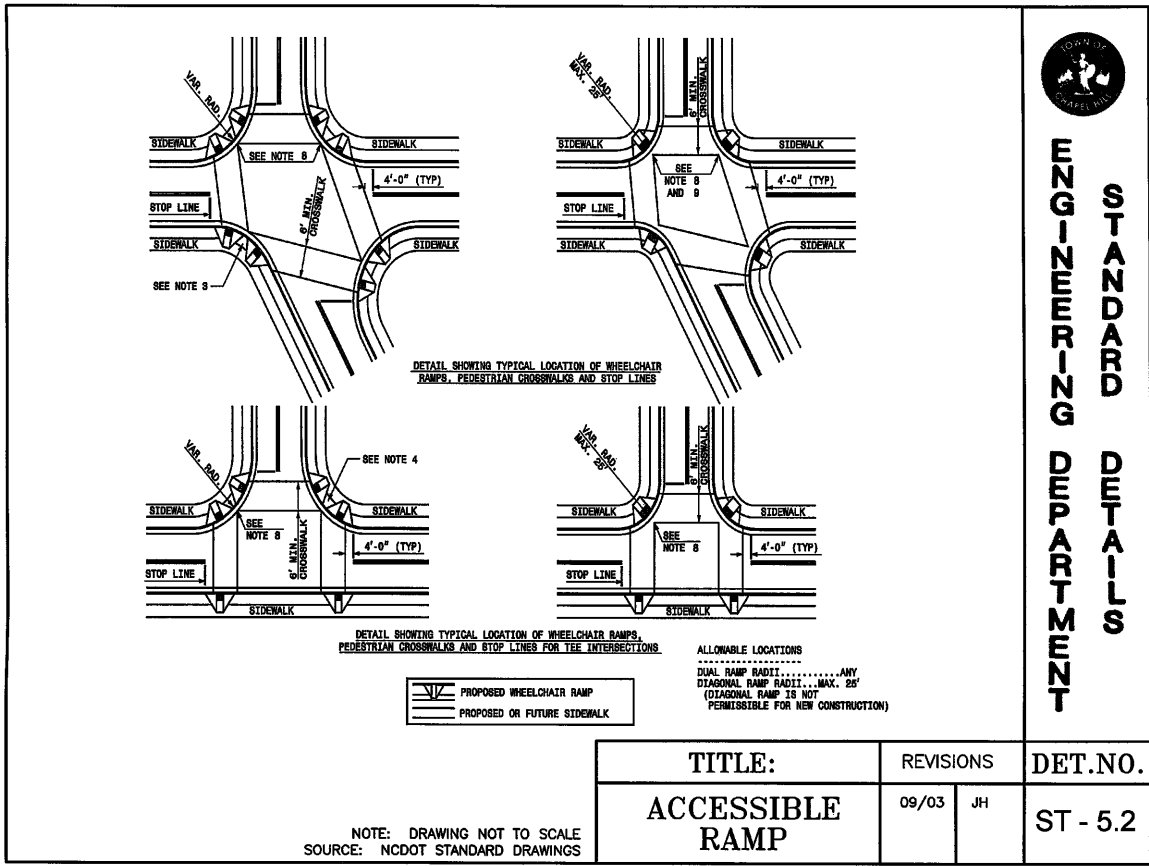
SITE DETAILS

C8.00

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

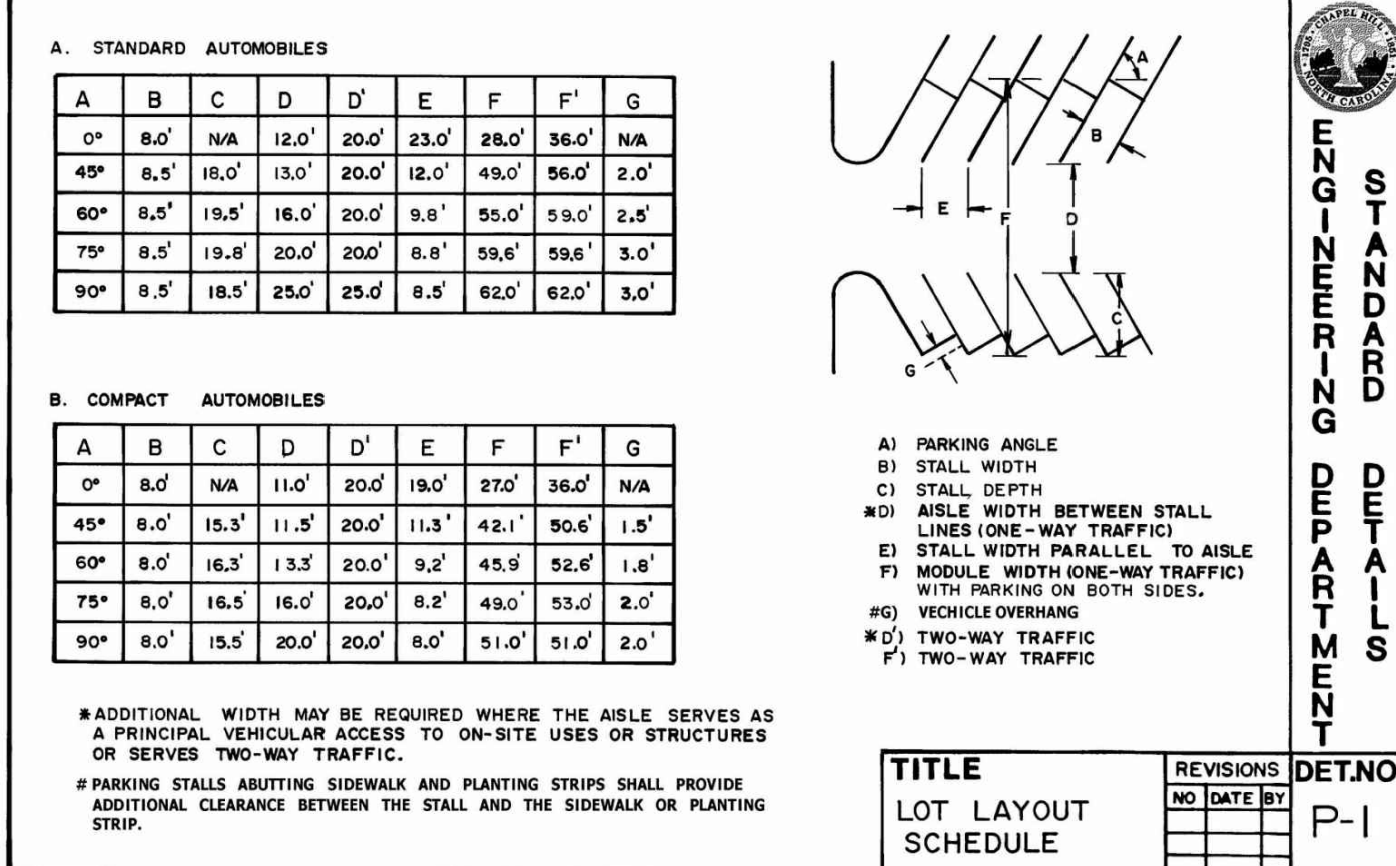
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CHAPEL HILL AND NCDOT ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



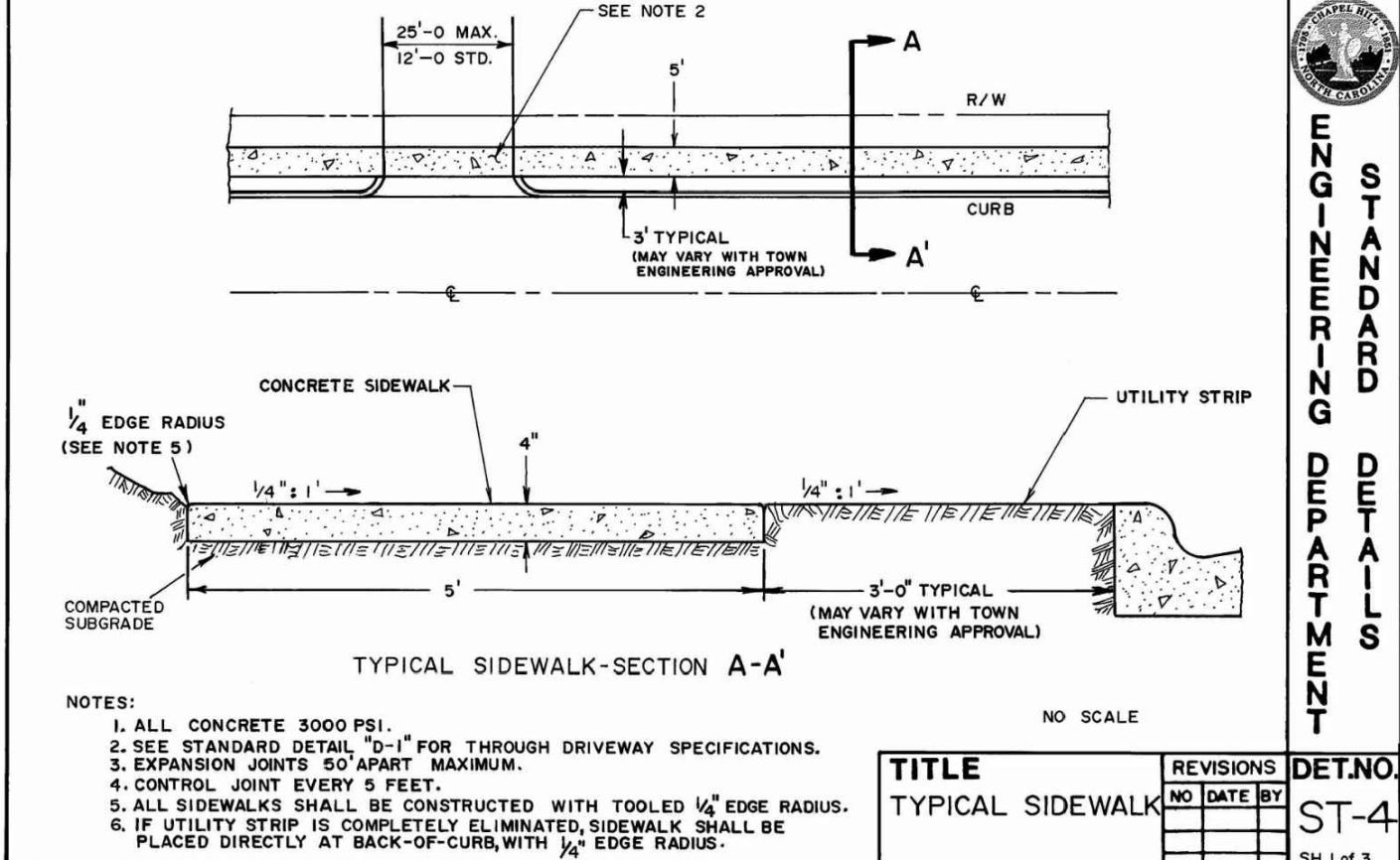
- NOTES:**
- TRANSITIONS NOT TO BE LOCATED IN A CURB RADIUS.
 - SEE TYPICAL CURB DETAILS FOR SPECIFIC DIMENSIONS AND INFORMATION.
 - DUMMY JOINTS SHALL BE USED AT TRANSITION POINTS OR EXPANSION JOINTS IF MADE WITH SEPARATE POURS.
 - ROLL CURB MAY BE SUBSTITUTED FOR VALLEY TYPE GUTTER, BASED ON SITE REQUIREMENTS.

CURB TRANSITION DETAILS
N.T.S.

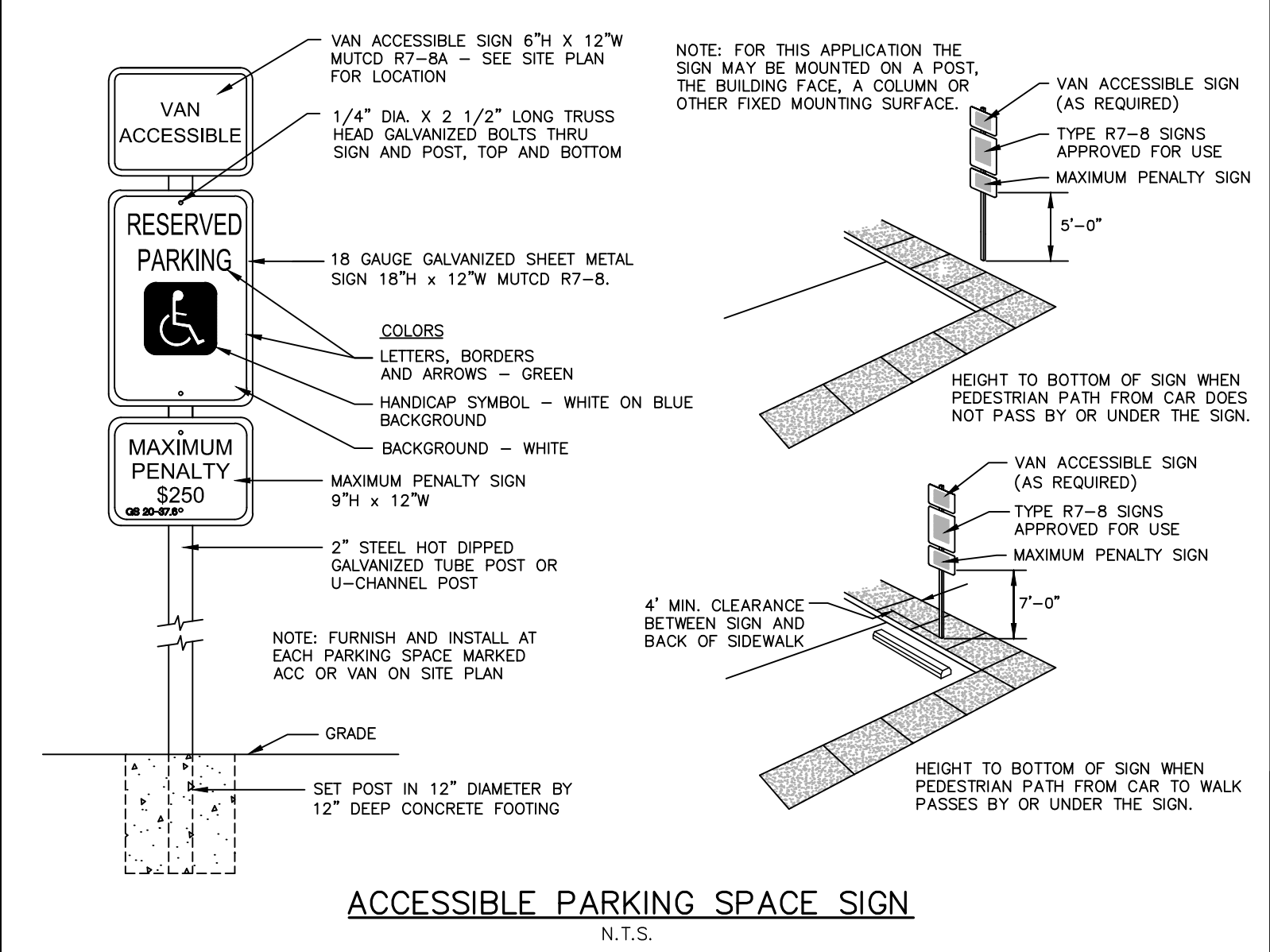


*ADDITIONAL WIDTH MAY BE REQUIRED WHERE THE AISLE SERVES AS A PRINCIPAL VEHICULAR ACCESS TO ON-SITE USES OR STRUCTURES OR SERVES TWO-WAY TRAFFIC.

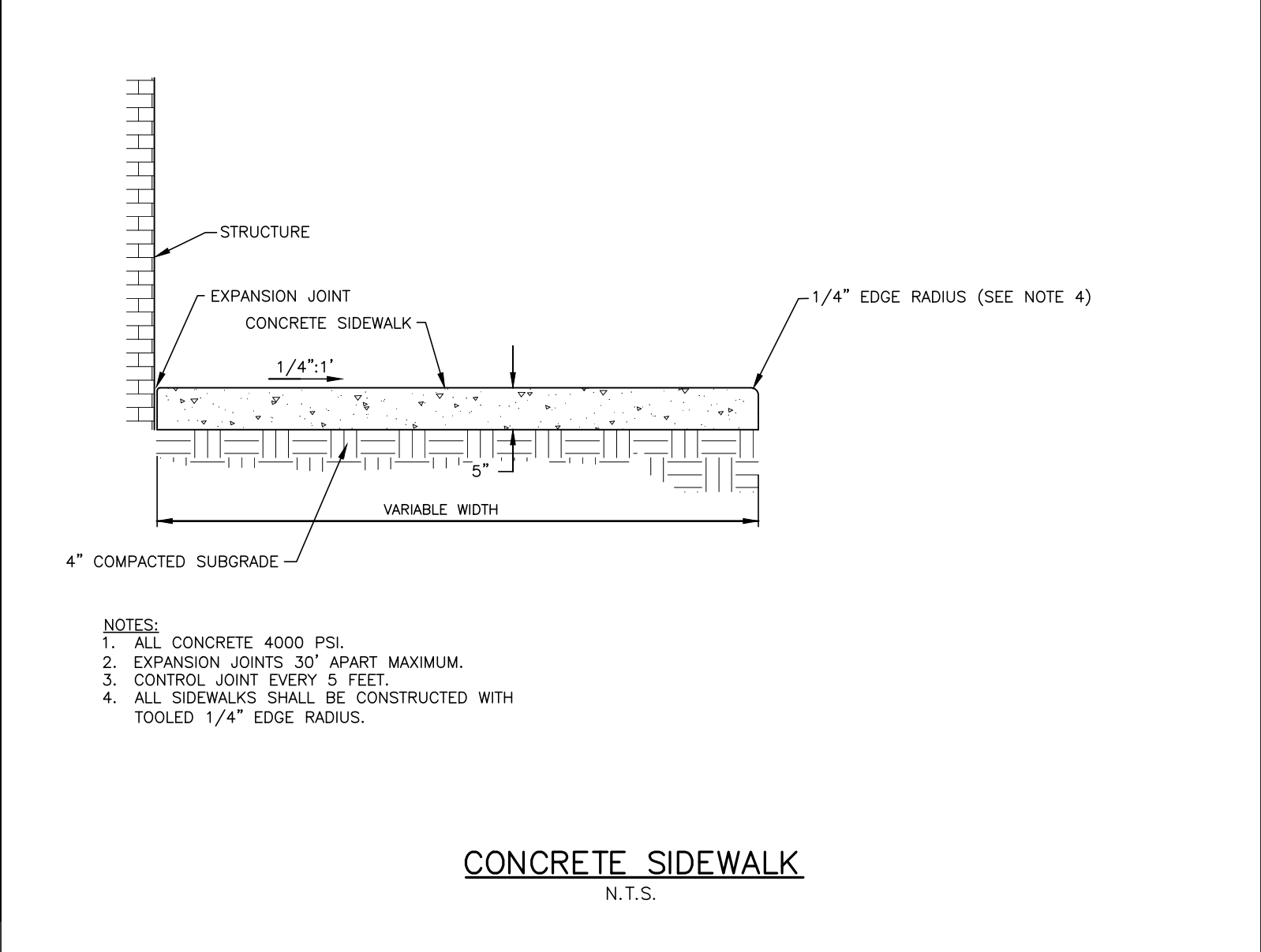
*PARKING STALLS ADJUTING SIDEWALK AND PLANTING STRIPS SHALL PROVIDE ADDITIONAL CLEARANCE BETWEEN THE STALL AND THE SIDEWALK OR PLANTING STRIP.



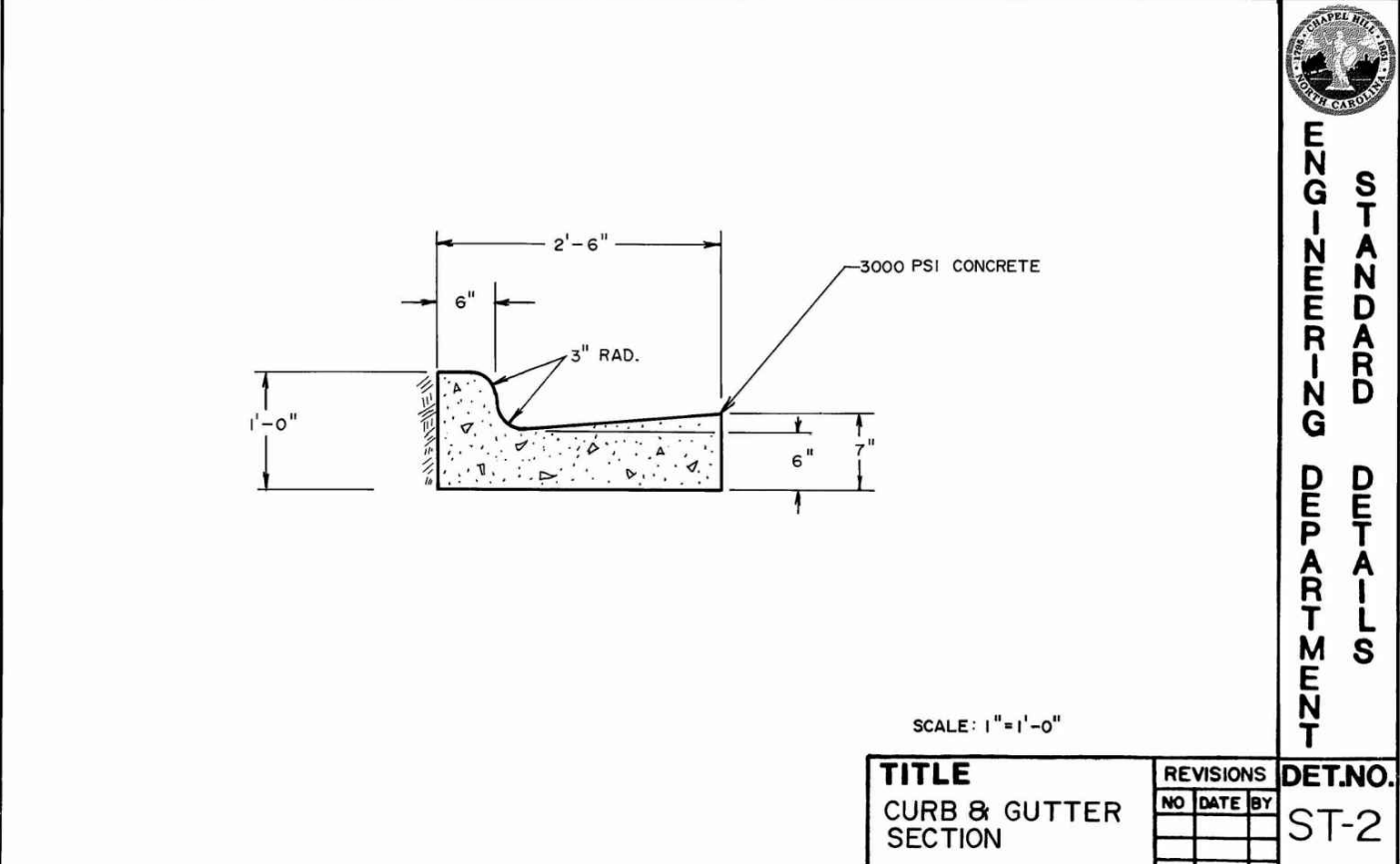
TITLE: TYPICAL SIDEWALK
REVISIONS: 09/03 JH
DET.NO.: ST - 4



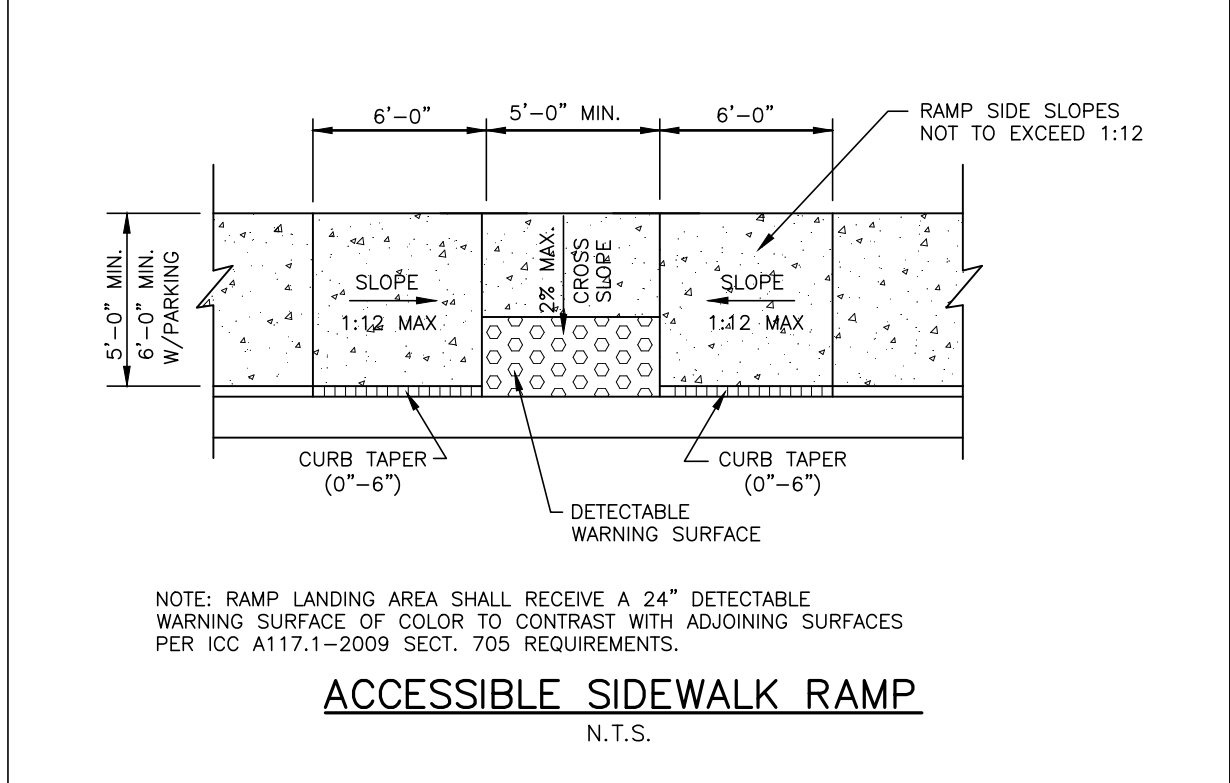
ACCESSIBLE PARKING SPACE SIGN
N.T.S.



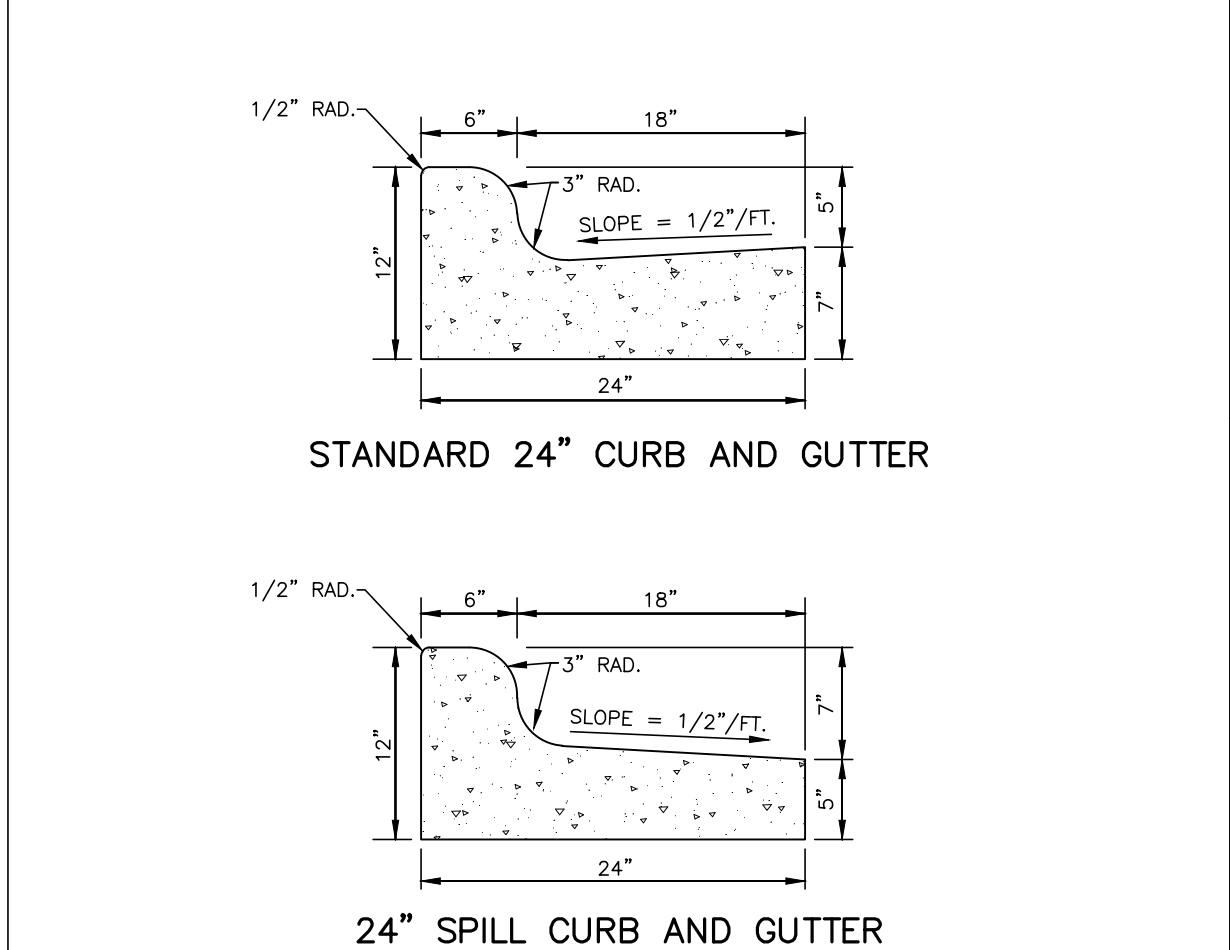
CONCRETE SIDEWALK
N.T.S.



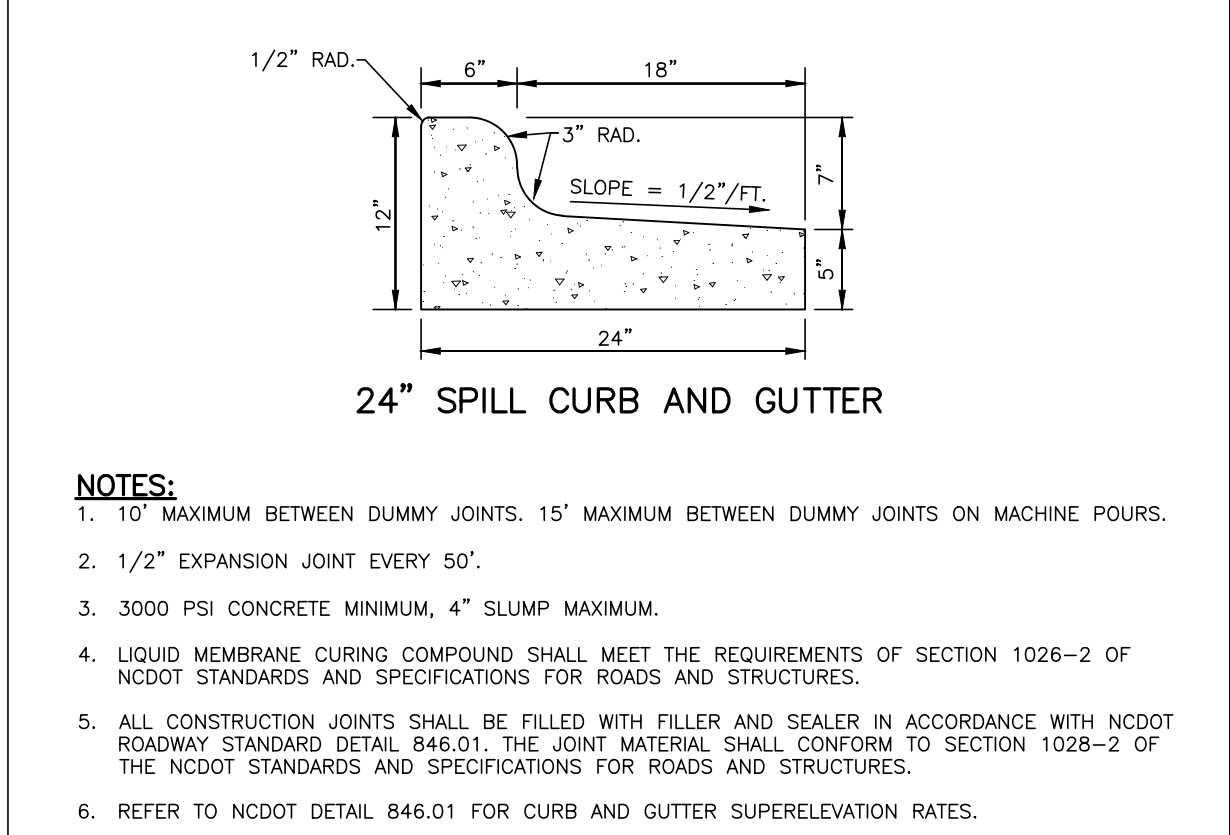
TITLE: CURB & GUTTER SECTION
REVISIONS: 09/03 JH
DET.NO.: ST - 2



ACCESSIBLE SIDEWALK RAMP
N.T.S.



STANDARD 24" CURB AND GUTTER



24" SPILL CURB AND GUTTER

- NOTES:**
- 10' MAXIMUM BETWEEN DUMMY JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
 - 1/2" EXPANSION JOINT EVERY 50'.
 - 3000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
 - LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.
 - ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH FILLER AND SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01. THE JOINT MATERIAL SHALL CONFORM TO SECTION 1026-2 OF THE NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES.
 - REFER TO NCDOT DETAIL 846.01 FOR CURB AND GUTTER SUPERELEVATION RATES.

24" CURB AND GUTTER
N.T.S.

STORMWATER CONTROL MEASURE 'A' CONSTRUCTION SPECIFICATIONS

GENERAL NOTES

1. PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
2. PRIOR TO ANY CONSTRUCTION OR PLACEMENT OF ANY BACKFILL, THE ONSITE GEOTECHNICAL ENGINEER SHALL INSPECT THE EXCAVATION AREA FOR THE UNDERGROUND SCM WITHIN THIS AREA TO ASSESS WHETHER SUITABLE SOILS EXIST AT THE SUBGRADE LEVEL. IF THE CONTRACTOR CONSTRUCTS AND COVERS UP THE UNDERGROUND SCM PRIOR TO INSPECTION, THEN THIS AREA SHALL BE UNCOVERED AND TESTED (TO THE ENGINEER'S AND OWNER'S APPROVAL) AT THE CONTRACTOR'S EXPENSE.
3. THE FACILITY SHALL NOT BE USED AS A TEMPORARY EROSION CONTROL DEVICE (I.E. SEDIMENT TRAP OR SEDIMENT BASIN) DURING CONSTRUCTION.
4. PRIOR TO PLACING STORMFILTER CARTRIDGES WITHIN THE UNDERGROUND SYSTEM , THE CONTRACTOR SHALL REQUEST AN ONSITE MEETING WITH THE DESIGN ENGINEER AND THE EROSION CONTROL INSPECTOR TO ENSURE THE UPSTREAM DRAINAGE AREA IS COMPLETELY STABILIZED (I.E. GOOD VEGETATIVE COVER). IF THE CONTRACTOR DECIDES TO PLACE THE STORMFILTER CARTRIDGES PRIOR TO APPROVAL FROM THE DESIGN ENGINEER AND THE EROSION CONTROL INSPECTOR, THEN THE CONTRACTOR SHALL EXCAVATE/REPLACE, AS NECESSARY, THE COMPONENTS NEEDED FOR THE SYSTEM TO FUNCTION PROPERLY AT HIS / HER EXPENSE SHOULD THE STORMFILTER CARTRIDGES NOT FUNCTION PROPERLY (I.E. WILL NOT DRAIN DUE TO SEDIMENT DEPOSITION) DUE TO AN UNSTABILIZED UPSTREAM DRAINAGE AREA.
5. ONCE CONSTRUCTED, THE STORMFILTER CARTRIDGES SHALL NOT RECEIVE STORMWATER RUNOFF UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA TO THE UNDERGROUND SYSTEM HAS BEEN COMPLETELY STABILIZED AND SITE CONSTRUCTION IS COMPLETE.
6. ALL COMPONENTS OF THE UNDERGROUND SCM SYSTEM (STORMFILTER MANHOLE, CONCRETE VAULT, JOINT / RISER CONNECTIONS, ENDCAPS, ACCESS MANHOLES, ETC) SHALL BE DESIGNED BY OTHERS. ANY VARIATIONS OR CHANGES MADE FROM THESE SPECIFICATIONS AND DRAWINGS DURING THE ORDERING AND/OR INSTALLATION OF ALL COMPONENTS MUST BE APPROVED BY THE DESIGN ENGINEER. THE STRUCTURAL DESIGN OF THE UNDERGROUND SCM, ALONG WITH ITS ASSUMPTIONS, IS ALSO BY OTHERS. THE JOHN R. McADAMS COMPANY, INC. AND ITS EMPLOYEES ASSUME NO LIABILITY WITH RESPECT TO ANY ASPECT OF THE STRUCTURAL DESIGN FOR THE UNDERGROUND SCM SYSTEM.
7. ALL PIPE / RISER CONNECTIONS AND JOINTS ASSOCIATED WITH THE UNDERGROUND SCM SYSTEM SHALL BE WATER TIGHT. THE MECHANISM FOR ACHIEVING THIS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW.
8. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE UNDERGROUND SCM SYSTEM SITE. IT IS ANTICIPATED THAT PUMPING WILL BE NECESSARY IN THE EXCAVATION AREAS. DURING PLACEMENT OF FILL WITHIN THIS AREA (OR OTHER AREAS AS NECESSARY), THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADHERE TO ALL CURRENT OSHA REGULATIONS FOR CONFINED SPACE ENTRY AND PROVIDE SUCH DURING ENGINEER WALK-THROUGH/INSPECTION.
10. ALL PIPE PENETRATIONS THROUGH A CONCRETE STRUCTURE (I.E. STORMFILTER CARTRIDGE / DETENTION SYSTEM, STORM DRAINAGE MANHOLES, ETC.) SHALL BE MADE WATERTIGHT USING NON-SHRINK CEMENTIOUS GROUT.
11. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

STORMWATER MANAGEMENT SYSTEM MATERIAL SPECIFICATIONS

1. THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM IS TO BE DESIGNED BY OTHERS. ANY CHANGES TO THE PLANS SHALL BE PROVIDED TO THE DESIGN ENGINEER FOR REVIEW. PRIOR TO INSTALLATION, SHOP DRAWINGS OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROVIDED TO THE DESIGN ENGINEER AND TO THE TOWN OF CHAPEL HILL FOR REVIEW.
2. FILTER CARTRIDGES SHALL BE CONTECH STORMFILTERS WITH PHOSPHOSORB MEDIA. INSTALLATION OF THE STORMWATER DEVICE SHALL BE PER THE MANUFACTURER'S INSTALLATION GUIDELINES AND SPECIFICATIONS.
3. ACCESS RISERS SHALL BE INSTALLED PER STRUCTURAL SPECIFICATIONS. ACCESS STEPS / LADDERS SHALL BE ATTACHED TO THE RISERS TO ALLOW FOR ACCESS INTO THE STORMWATER MANAGEMENT SYSTEM.
4. THE 24"Ø DIP OUTLET BARREL OF THE DETENTION SYSTEM SHALL BE CLASS 350 DIP, MEETING THE REQUIREMENTS OF ASTM A716. THE PIPE JOINTS SHALL BE LOCKING JOINTS PER ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53 STANDARDS.
5. THE CONTRACTOR SHALL INSTALL THE STORMFILTER SYSTEM PER MANUFACTURERS' SPECIFICATIONS. CONTRACTOR TO PROVIDE A LETTER FROM MATERIAL SUPPLIER(S) STATING MATERIALS MEET THE SPECIFIED STANDARDS PRIOR TO INSTALLATION.
6. COVER AND REVIEW OF SITE CONDITIONS TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE SYSTEM TO BE THE RESPONSIBILITY OF THE MANUFACTURER.

STATEMENT OF RESPONSIBILITY

1. ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THIS FACILITY SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.

FOUNDATION NOTES

1. ONCE THE EXCAVATION IS COMPLETE AND PRIOR TO INSTALLATION OF THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM, THE ONSITE GEOTECHNICAL ENGINEER SHALL VERIFY THE BEARING CAPACITY OF THE UNDERLYING SOILS TO SERVE AS A FOUNDATION FOR THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM. IF THE ONSITE GEOTECHNICAL ENGINEER DEEMS THE FOUNDATION SOILS AS UNSUITABLE, THEN THE UNSUITABLE MATERIAL SHOULD BE REMOVED DOWN TO A SUITABLE DEPTH AND THEN BUILT BACK UP TO THE CORRECT ELEVATION WITH A COMPACTED BACKFILL MATERIAL THAT IS APPROVED BY THE ONSITE GEOTECHNICAL ENGINEER. THE APPROVED BACKFILL MATERIAL SHOULD HAVE A GRADATION THAT WILL NOT ALLOW THE MIGRATION OF FINES, WHICH COULD CAUSE SETTLEMENT OF THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM. IF NECESSARY, A GEOTEXTILE FABRIC CAN BE USED TO SEPARATE THE UNDERLYING SOILS AND THE BACKFILL MATERIAL. THIS GEOTEXTILE FABRIC (IF USED) IS TO BE SPECIFIED BY THE ON-SITE GEOTECHNICAL ENGINEER.
2. PLEASE NOTE THAT IF THE CONTRACTOR CONSTRUCTS AND COVERS UP THE EXCAVATION FOR THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM PRIOR TO INSPECTION, THEN THIS AREA SHALL BE UNCOVERED AND TESTED (TO THE ENGINEER'S AND OWNER'S APPROVAL) AT THE CONTRACTOR'S EXPENSE.
3. THE FOUNDATION SUBGRADE SHALL BE GRADED TO A UNIFORM OR SLIGHTLY SLOPING GRADE PRIOR TO PLACEMENT OF THE BEDDING MATERIAL. IF THE FOUNDATION SUBGRADE WILL BE EXPOSED FOR AN EXTENDED PERIOD OF TIME DURING CONSTRUCTION, THEN IT SHOULD BE GRADED TO A SLIGHT SLOPE SUCH THAT SATURATION OF THE SUBGRADE DOES NOT OCCUR.
4. THE BEDDING MATERIAL FOR THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM SHALL BE SPECIFIED BY THE ON-SITE GEOTECHNICAL ENGINEER. TYPICALLY, A WELL-GRADED GRANULAR MATERIAL WILL BE USED FOR THE BEDDING. PLEASE NOTE THAT IF CONSTRUCTION EQUIPMENT WILL BE OPERATING FOR AN EXTENDED PERIOD OF TIME ON THE BEDDING, THEN THE APPROPRIATE MEASURES (E.G. ENGINEERED FABRIC, STIFF GEOGRID, ETC.) SHALL BE TAKEN TO ENSURE THE INTEGRITY OF THE BEDDING IS NOT COMPROMISED.
5. THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM THE EXCAVATION. IT IS BEST TO BEGIN THE CONSTRUCTION OF THE DETENTION SYSTEMS AT THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR WATER TO ESCAPE.
6. THE CONTRACTOR SHALL PROVIDE A FOUNDATION DRAIN FOR THE UNDERGROUND DETENTION SYSTEM DESIGNED BY OTHERS. THE UNDERDRAIN SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATION AND SHALL POSITIVELY DRAIN TO DOWNSTREAM STRUCTURE. THE ONSITE GEOTECHNICAL ENGINEER SHALL DETERMINE IF FOUNDATION DRAINS ARE NOT REQUIRED FOR THE UNDERGROUND SCM SYSTEM. THE DESIGN ENGINEER SHALL BE NOTIFIED FOLLOWING THIS DETERMINATION.

BEDDING NOTES

1. THE EXCAVATION SUB GRADE MUST BE TRANSIT LEVEL.
2. THE EXCAVATION PIT SHALL BE LINED (ON THE BOTTOM AND ALL FOUR SIDES) WITH A NON-WOVEN GEO-TEXTILE (GEOTEX 401 OR APPROVED EQUIVALENT). THE ONSITE GEOTECHNICAL ENGINEER SHALL APPROVE FABRIC FOR USE.
3. THE SUBGRADE FOR THE DETENTION SYSTEM CAN BE A CONCRETE SLAB, OR CLEAN GRANULAR MATERIAL WITH A MAXIMUM AGGREGATE SIZE OF 3/4". THE BEDDING SHALL BE FREE FROM ROCK FORMATIONS, PROTRUDING STONES, FROZEN LUMPS, ROOTS, AND OTHER FOREIGN MATERIAL.
4. PREPARE THE SUBGRADE PER THE ONSITE GEOTECHNICAL ENGINEER'S DIRECTION (APPROXIMATELY 5'-6" BELOW GRADE ON WHICH SLAB WILL SET). THE BEDDING MATERIAL SHOULD BE GRADED SUCH THAT A SMOOTH UNIFORM GRADE IS ESTABLISHED TO ALLOW FOR OPTIMUM PLACEMENT OF THE SAND FILTER.
5. THE SUBGRADE MUST SUPPORT THE DETENTION SYSTEM WITHOUT DIFFERENTIAL SETTLEMENT BETWEEN PIECES.
6. IF CONSTRUCTION EQUIPMENT WILL BE OPERATING FOR AN EXTENDED PERIOD OF TIME ON THE BEDDING, THEN THE APPROPRIATE MEASURES (E.G. STIFF GEOGRID, ETC.) SHALL BE TAKEN TO ENSURE THE INTEGRITY OF THE BEDDING IS NOT COMPROMISED.

BACKFILL MATERIAL NOTES

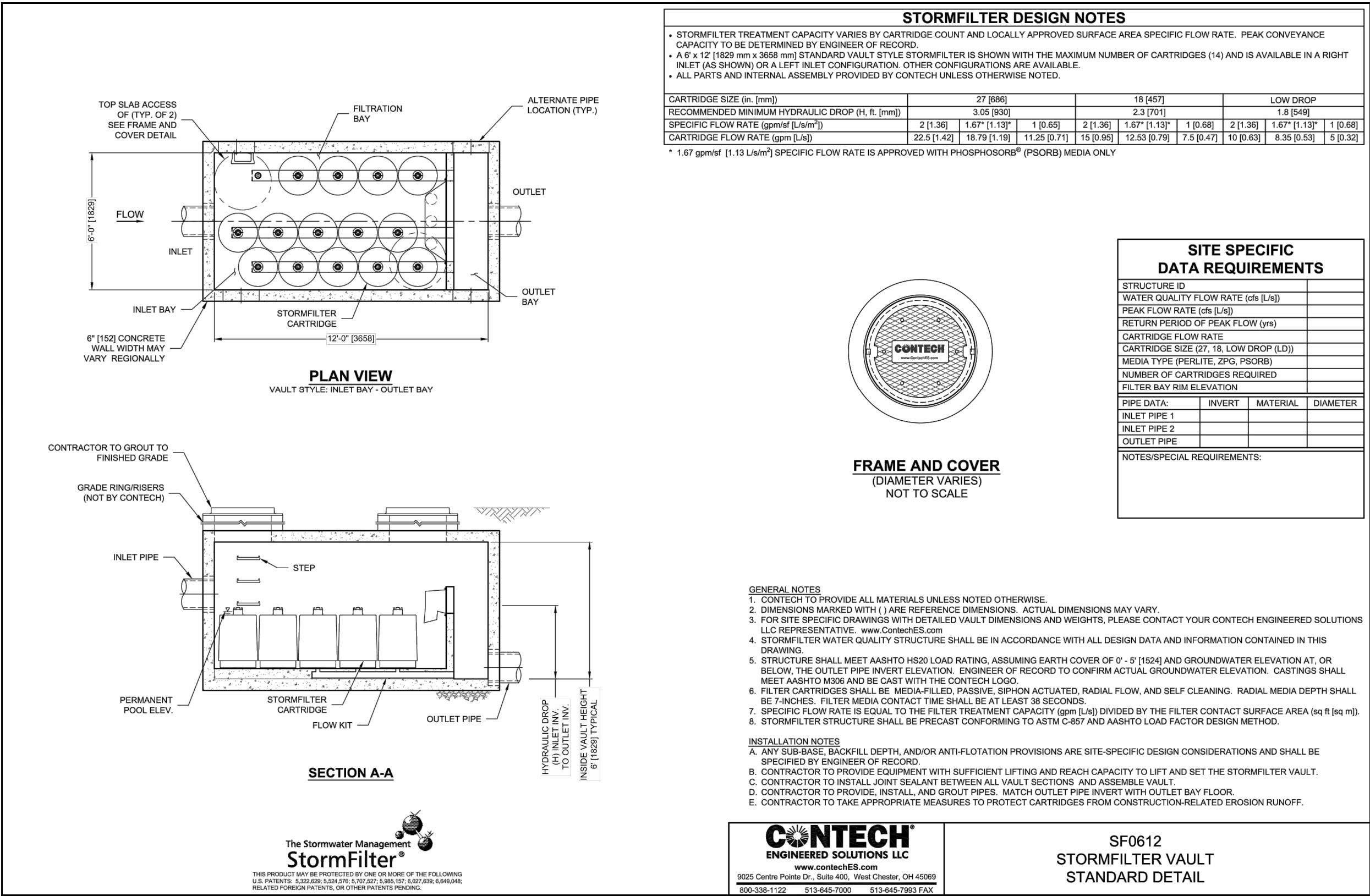
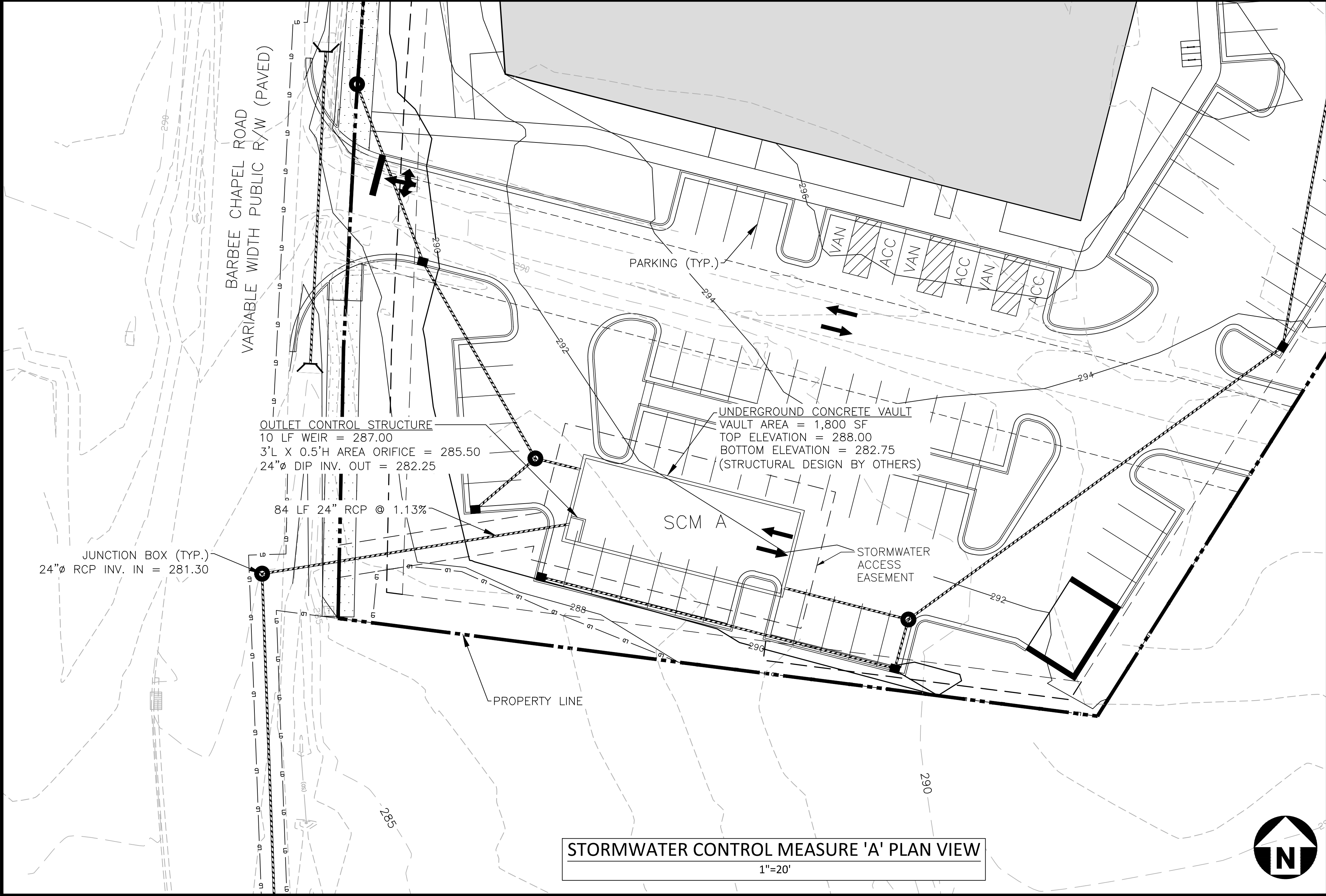
1. THE ON-SITE GEOTECHNICAL ENGINEER SHALL SPECIFY THE BACKFILL MATERIAL FOR THE STORMWATER MANAGEMENT SYSTEM.
2. THE BACKFILL MATERIAL SHOULD BE FREE OF ROCKS, FROZEN LUMPS, AND OTHER FOREIGN MATTER THAT COULD CAUSE HARD SPOTS WITHIN THE BACKFILL MATERIAL, OR THAT COULD DECOMPOSE AND CREATE VOIDS.
3. HIGHLY PLASTIC SILTS, HIGHLY PLASTIC CLAYS, ORGANIC SILTS, ORGANIC CLAYS, AND PEATS SHOULD NOT BE USED AS A BACKFILL MATERIAL.
4. THE BACKFILL MATERIAL SHOULD BE PLACED IN 6" LOOSE LIFTS AND COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM-D698). THE FILL SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN +/- TWO PERCENT OF ITS OPTIMUM MOISTURE CONTENT.
5. ANY MATERIAL STOCKPILING ON TOP OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE APPROVED BY THE STRUCTURAL DESIGN ENGINEER OR DETENTION SYSTEM MANUFACTURER.

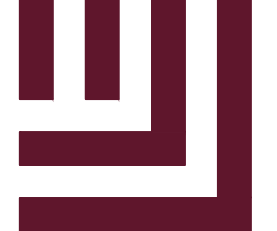
UNDERGROUND VAULT CONSTRUCTION NOTES

1. UNDERGROUND VAULT CONFIGURATION IS TO BE DESIGNED AND PROVIDED BY OTHERS.
2. ABSOLUTELY NO RUNOFF SHALL ENTER THE UNDERGROUND VAULT UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.
3. MANHOLE ACCESS SHALL BE PROVIDED FOR THE UNDERGROUND VAULT. MANHOLES SHALL BE IN COMPLIANCE WITH TOWN OF CHAPEL HILL STANDARD DETAILS. MANHOLES SHALL BE A MINIMUM OF 24 INCHES IN DIAMETER TO COMPLY WITH OSHA CONFINED SPACE REQUIREMENTS (OR MINIMUM OSHA REQUIREMENTS APPLICABLE AT TIME OF CONSTRUCTION). CONTRACTOR SHALL PROVIDE ACCESS LADDERS FOR ACCESS BELOW ALL MANHOLES. MANHOLE COVERS SHALL ALLOW FOR PROPER VENTILATION.

SYSTEM TESTING NOTES

1. PRIOR TO PLACEMENT OF THE BACKFILL MATERIAL AND STORM FILTER CARTRIDGES, CONTRACTOR SHALL TEST FOR WATER TIGHTNESS. ENTRANCES AND EXITS SHALL BE PLUGGED AND THE SYSTEM COMPLETELY FILLED WITH WATER TO DEMONSTRATE WATER TIGHTNESS. WATER TIGHTNESS MEANS NO SIGNIFICANT FOR A PERIOD OF 24 HOURS. SIGNIFICANT LEAKAGE TO BE DETERMINED BY THE CERTIFYING ENGINEER. CONTRACTOR SHALL SCHEDULE THE FIELD TESTING OF THE SYSTEM (WATER TIGHTNESS) WITH THE ENGINEER AT LEAST 2 WORKING DAYS PRIOR TO THE TEST. THE CONTRACTOR SHALL PROVIDE WRITTEN REPORTS TO THE ENGINEER VERIFYING THE WATER TIGHTNESS OF THE STORMWATER VAULT.





McADAMS

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FORT WASHINGTON, PA, 19034
Contact
PHONE: 202.577.6491



BARBEE CHAPEL APARTMENTS
CONDITIONAL ZONING PERMIT
DRAWINGS
5101 BARBEE CHAPEL RD
CHAPEL HILL, NC 27517



REVISIONS

NO.	DATE	REVISED PER
11.23.2022		PER 1ST C2P COMMENTS

PLAN INFORMATION

PROJECT NO.	TLA-22001
FILENAME	TLA22001-SCMA
CHECKED BY	MCT
DRAWN BY	OVL
SCALE	1" = 20'
DATE	09.29.2022

SHEET

SCM A PLAN VIEW

C9.00

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CHAPEL HILL AND NCDOT ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

GENERAL NOTES

- ## STORMWATER MANAGEMENT SYSTEM MATERIAL SPECIFICATIONS

- ## STATEMENT OF RESPONSIBILITY

BEDDING NOTES

- ### BACKFILL MATERIAL NOTES

5. ANY MATERIAL STOCKPILING ON TOP OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE APPROVED BY THE STRUCTURAL DESIGN ENGINEER OR DETENTION SYSTEM MANUFACTURER.

SYSTEM TESTING NOTES

-
- JUNCTION BOX (TYP.)
- 53.35 LF 24"Ø RCP @ 0.83%
- 58.48 LF 24"Ø RCP @ 0.83%
- 134.27 LF 24"Ø RCP @ 0.83%
- STORMWATER ACCESS EASEMENT
- 12' L x 6' W CLASS B RIPRAP
- 24" ENDWALL
OUTFALL @ 279.00
- OUTLET CONTROL STRUCTURE
15 LF WEIR = 290.25
1' L X 0.5' H AREA ORIFICE = 286.00
24"Ø DIP INV. OUT = 281.00
- SCM B
- UNDERGROUND CONCRETE VAULT
VAULT AREA = 9,200 SF
TOP ELEVATION = 291.00
BOTTOM ELEVATION = 281.50
(STRUCTURAL DESIGN BY OTHERS)
- PROPERTY LINE
- STORMWATER ACCESS EASEMENT
- ZONE 2 JORDAN LAKE
RIPARIAN BUFFER
- ZONE 1 JORDAN LAKE
RIPARIAN BUFFER
- STORMWATER CONTROL MEASURE 'B' PLAN VIEW
- 1"=30'



ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CHAPEL HILL AND NCDOT ENGINEERING DESIGN AND CONSTRUCTION STANDARDS



CHAPEL HILL, NC 27517



NO.	DATE	
	11.23.2022	REVISED PER 1ST CZP COMMENTS

PROJECT NO.	TLA-22001
FILENAME	TLA22001-SCMB
CHECKED BY	MCT
DRAWN BY	OVL
SCALE	1" = 30'
DATE	09.29.2022

SCM B PLAN VIEW

C9.01

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



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BARBEE CHAPEL APARTMENTS CONDITIONAL ZONING PERMIT DRAWINGS 5101 BARBEE CHAPEL RD CHAPEL HILL, NORTH CAROLINA, 27517

REVISIONS

NO.	DATE	REVISION DESCRIPTION
1	11/21/2022	1ST ROUND COMMENTS

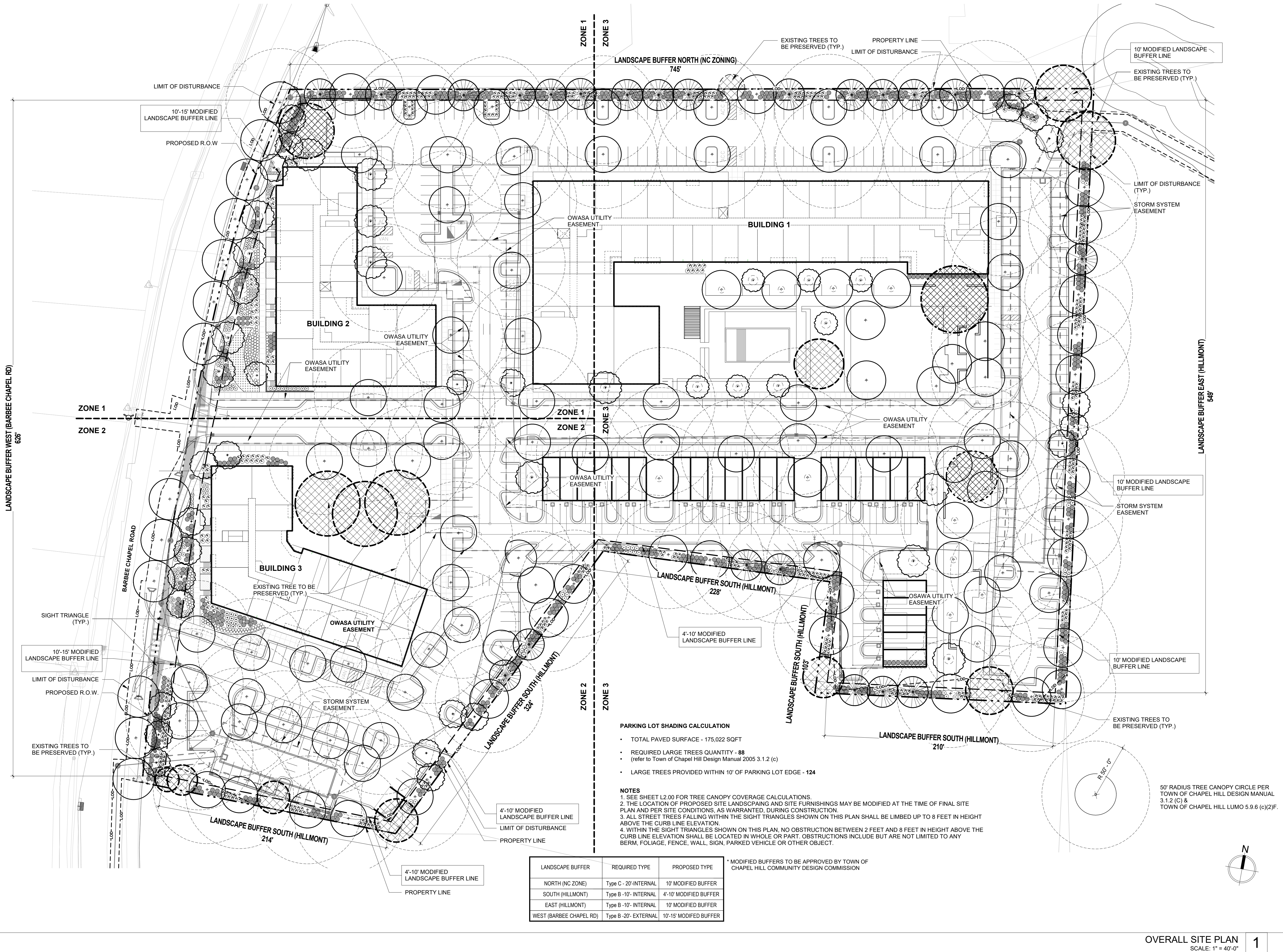
PLAN INFORMATION

PROJECT NO.: P200798

SCALE: AS INDICATED
DATE: 09/29/2022

OVERALL SITE PLAN

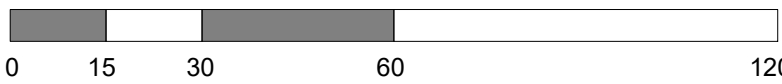
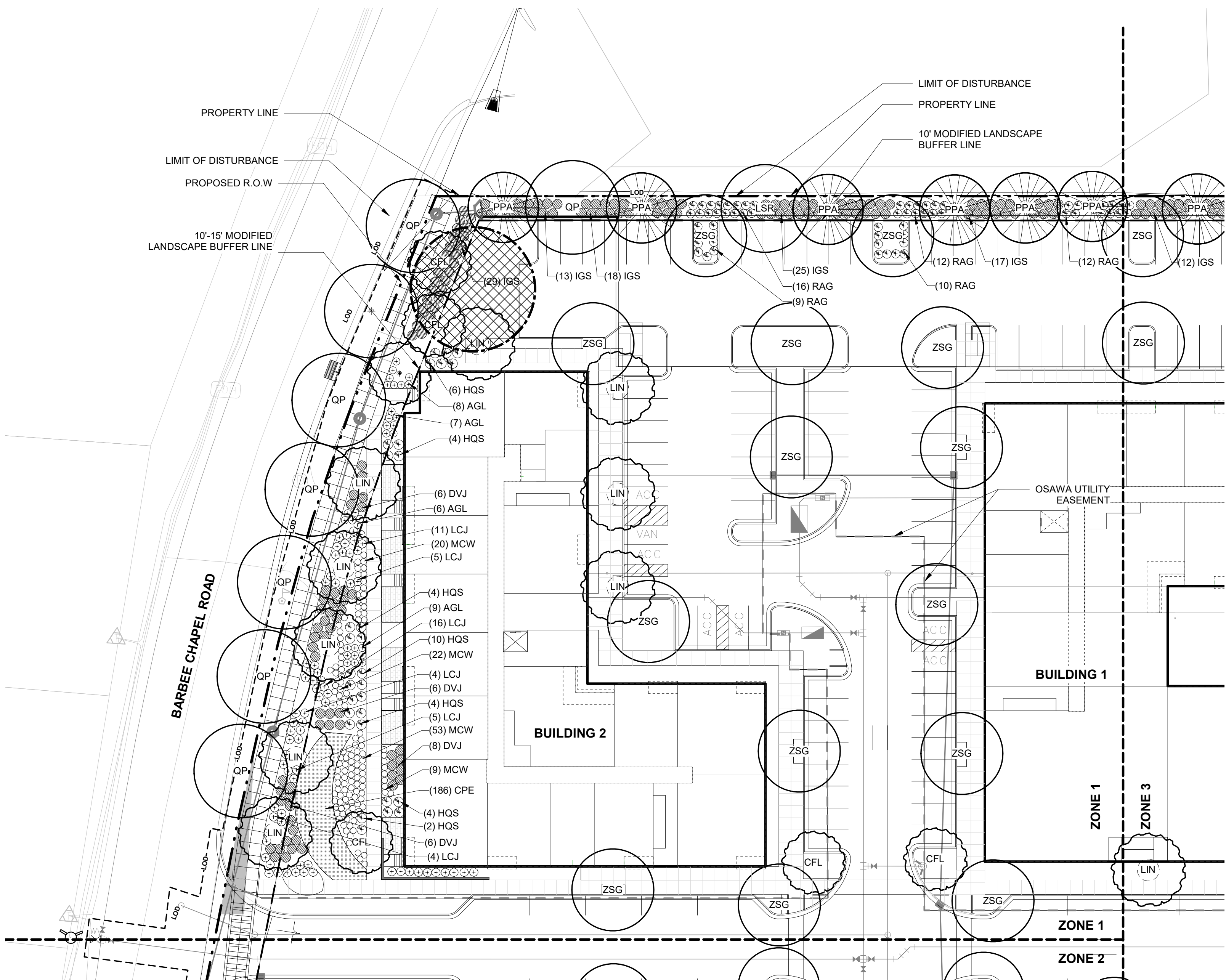
L1.00



TREE SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CANOPY TREES			
CBF	Carpinus betulus 'Fastigiata'	European Hornbeam	3" Cal
LSR	Liquidambar styraciflua 'Rotundiloba'	Seedless Sweetgum	3" Cal
QAL	Quercus alba	White Oak	4" Cal
QFA	Quercus falcata	Southern Red Oak	3" Cal
QNI	Quercus nigra	Water Oak	3" Cal
QP	Quercus phello	Willow Oak	4" Cal
ZSG	Zelkova serrata 'Green Vase'	Green Vase Zelkova	4" Cal
EVERGREEN TREES			
PPA	Pinus palustris	Longleaf Pine	2.5" Cal
PTA	Pinus taeda	Loblolly Pine	2.5" Cal
UNDERSTORY TREES			
CFL	Cornus florida	Flowering Dogwood	2.5" Cal
LIN	Lagerstroemia indica x fauriei 'Natchez'	Natchez Cape Myrtle	3" Cal
Grand total			

SHRUB & ORNAMENTAL GRASS SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
ORNAMENTAL GRASS			
MCW	Muhlenbergia capillaris 'White Cloud'	White Cloud Muhly Grass	#3
SHRUB			
AGL	Abelia x grandiflora 'Little Richard'	Little Richard Abelia	#3
CAH	Clethra alnifolia 'Hummingbird'	Sweet Pepperbush	#3
CSA	Cornus sericea 'Arctic Fire'	Red Twig Dogwood	#3
DVJ	Distylium x 'Vintage Jade'	Vintage Jade Evergreen Witch Hazel	#3
HQS	Hydrangea quercifolia 'Sike's Dwarf'	Dwarf Oakleaf Hydrangea	#5
HQU	Hydrangea quercifolia	Oakleaf Hydrangea	#3
IGS	Ilex glabra 'Shamrock'	Inkberry Holly	#3
IVE	Ilex verticillata	Winterberry Holly	#3
LCJ	Loropetalum chinense 'Jazz Hands White'	White Chinese Fringe Flower	#5
RAG	Rhus aromatica 'Grow-low'	Dwarf Sumac 'Gro-low'	#3
TMD	Taxus x media 'Densiformis'	Dense Yew	#3

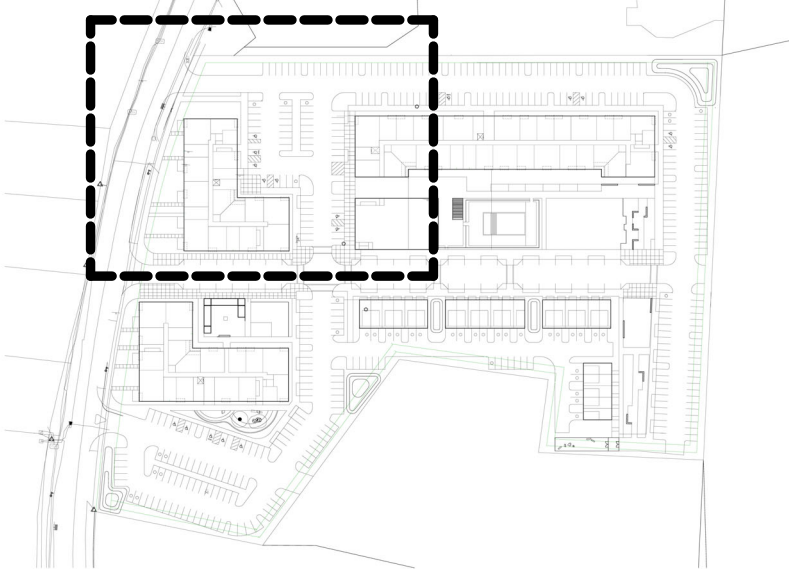
PERENNIAL SCHEDULE - KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CCD	Carex cherokeensis	Cherokee Sedge	#1
CPE	Carex pensylvanica	Sedge	#1



PLANTING PLAN ZONE 01
SCALE: 1" = 30'-0"

LEGEND

- LOD --- LIMITS OF DISTURBANCE
- TP --- TREE PROTECTION FENCE
- P.L. --- PROPERTY LINE
- CANOPY TREES
- UNDERSTORY TREES
- EVERGREEN TREES
- EXISTING TREES TO BE PRESERVED



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PHONE: 202.577.6491

BARBEE CHAPEL APARTMENTS

CONDITIONAL ZONING PERMIT

DRAWINGS

5101 BARBEE CHAPEL RD

CHAPEL HILL, NORTH CAROLINA, 27517

REVISIONS		
NO.	DATE	REVISION DESCRIPTION
1	11/21/2022	1ST ROUND COMMENTS

PLAN INFORMATION	
PROJECT NO.:	P200798
SCALE:	AS INDICATED
DATE:	09/29/2022

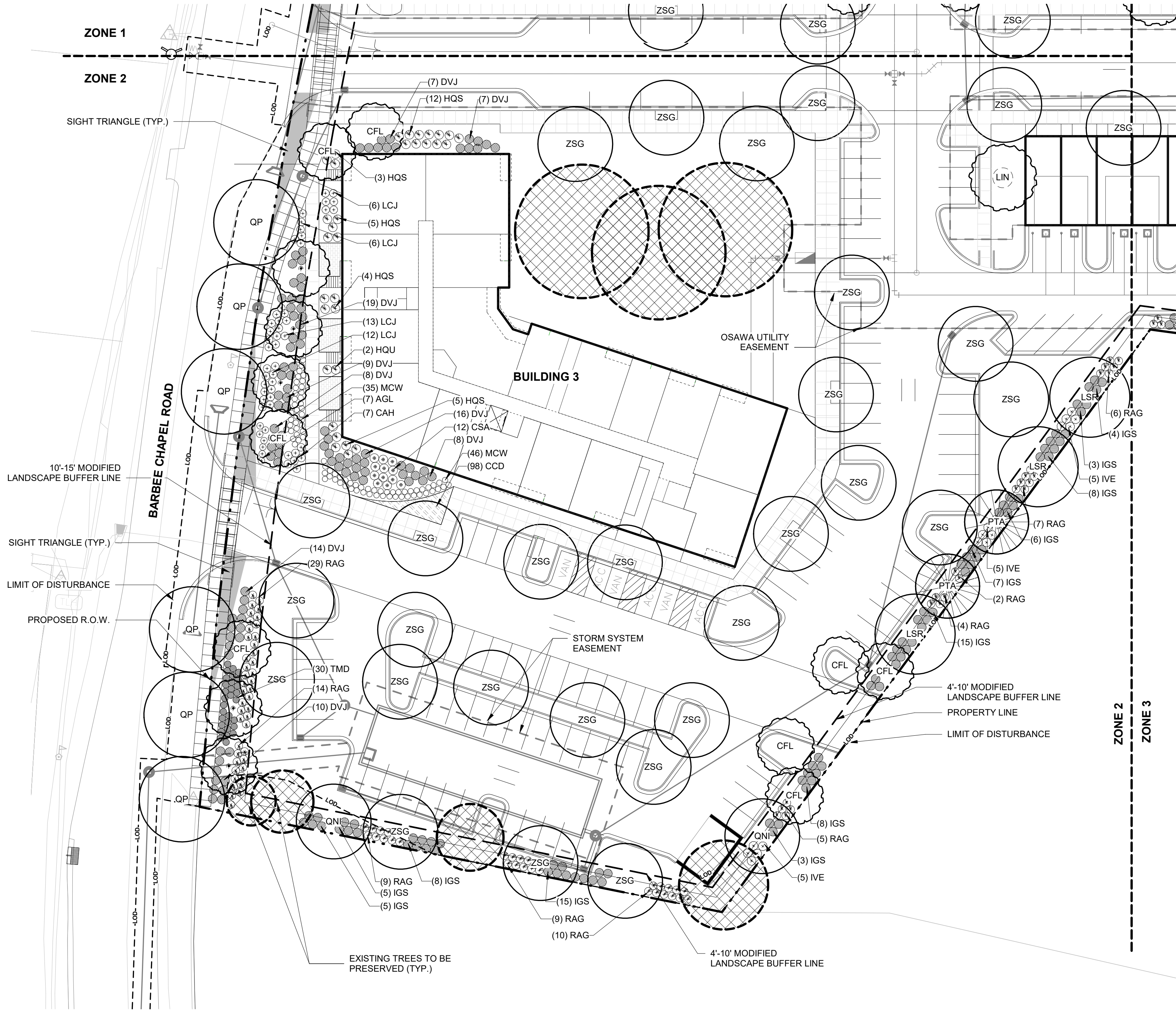
PLANTING PLAN ZONE 01

L1.01

TREE SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CANOPY TREES			
CBF	Carpinus betulus 'Fastigiata'	European Hornbeam	3" Cal
LSR	Liquidambar styraciflua 'Rotundiloba'	Seedless Sweetgum	3" Cal
QAL	Quercus alba	White Oak	4" Cal
QFA	Quercus falcata	Southern Red Oak	3" Cal
QNI	Quercus nigra	Water Oak	3" Cal
QP	Quercus phello	Willow Oak	4" Cal
ZSG	Zelkova serrata 'Green Vase'	Green Vase Zelkova	4" Cal
EVERGREEN TREES			
PPA	Pinus palustris	Longleaf Pine	2.5" Cal
PTA	Pinus taeda	Loblolly Pine	2.5" Cal
UNDERSTORY TREES			
CFL	Cornus florida	Flowering Dogwood	2.5" Cal
LIN	Lagerstroemia indica x fauriei 'Natchez'	Natchez Cape Myrtle	3" Cal
Grand total			

SHRUB & ORNAMENTAL GRASS SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
ORNAMENTAL GRASS			
MCW	Muhlenbergia capillaris 'White Cloud'	White Cloud Muhly Grass	#3
SHRUB			
AGL	Abelia x grandiflora 'Little Richard'	Little Richard Abelia	#3
CAH	Clethra alnifolia 'Hummingbird'	Sweet Pepperbush	#3
CSA	Cornus sericea 'Arctic Fire'	Red Twig Dogwood	#3
DVJ	Distylium x 'Vintage Jade'	Vintage Jade Evergreen Witch Hazel	#3
HQS	Hydrangea quercifolia 'Sike's Dwarf'	Dwarf Oakleaf Hydrangea	#5
HQU	Hydrangea quercifolia	Oakleaf Hydrangea	#3
IGS	Ilex glabra 'Shamrock'	Inkberry Holly	#3
IVE	Ilex verticillata	Winterberry Holly	#3
LCJ	Loropetalum chinense 'Jazz Hands White'	White Chinese Fringe Flower	#5
RAG	Rhus aromatica 'Grow-low'	Dwarf Sumac 'Gro-low'	#3
TMD	Taxus x media 'Densiformis'	Dense Yew	#3

PERENNIAL SCHEDULE - KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CCD	Carex cherokeensis	Cherokee Sedge	#1
CPE	Carex pensylvanica	Sedge	#1



LEGEND

- LOD --- LIMITS OF DISTURBANCE
- TP --- TREE PROTECTION FENCE
- --- PROPERTY LINE
- CANOPY TREES
- UNDERSTORY TREES
- EVERGREEN TREES
- EXISTING TREES TO BE PRESERVED

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BARBEE CHAPEL APARTMENTS CONDITIONAL ZONING PERMIT DRAWINGS 5101 BARBEE CHAPEL RD CHAPEL HILL, NORTH CAROLINA, 27517

REVISIONS

NO.	DATE	REVISION DESCRIPTION
1	11/21/2022	1ST ROUND COMMENTS

PLAN INFORMATION

PROJECT NO.: P200798

SCALE: AS INDICATED
DATE: 09/29/2022

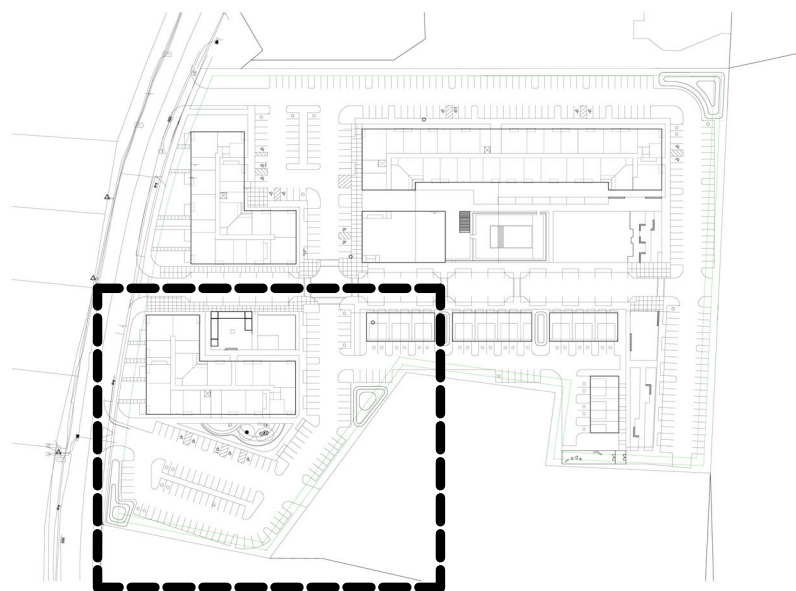
PLANTING PLAN ZONE 2

L1.02

PLANTING PLAN ZONE 02
SCALE: 1" = 30'-0"

1

KEY PLAN



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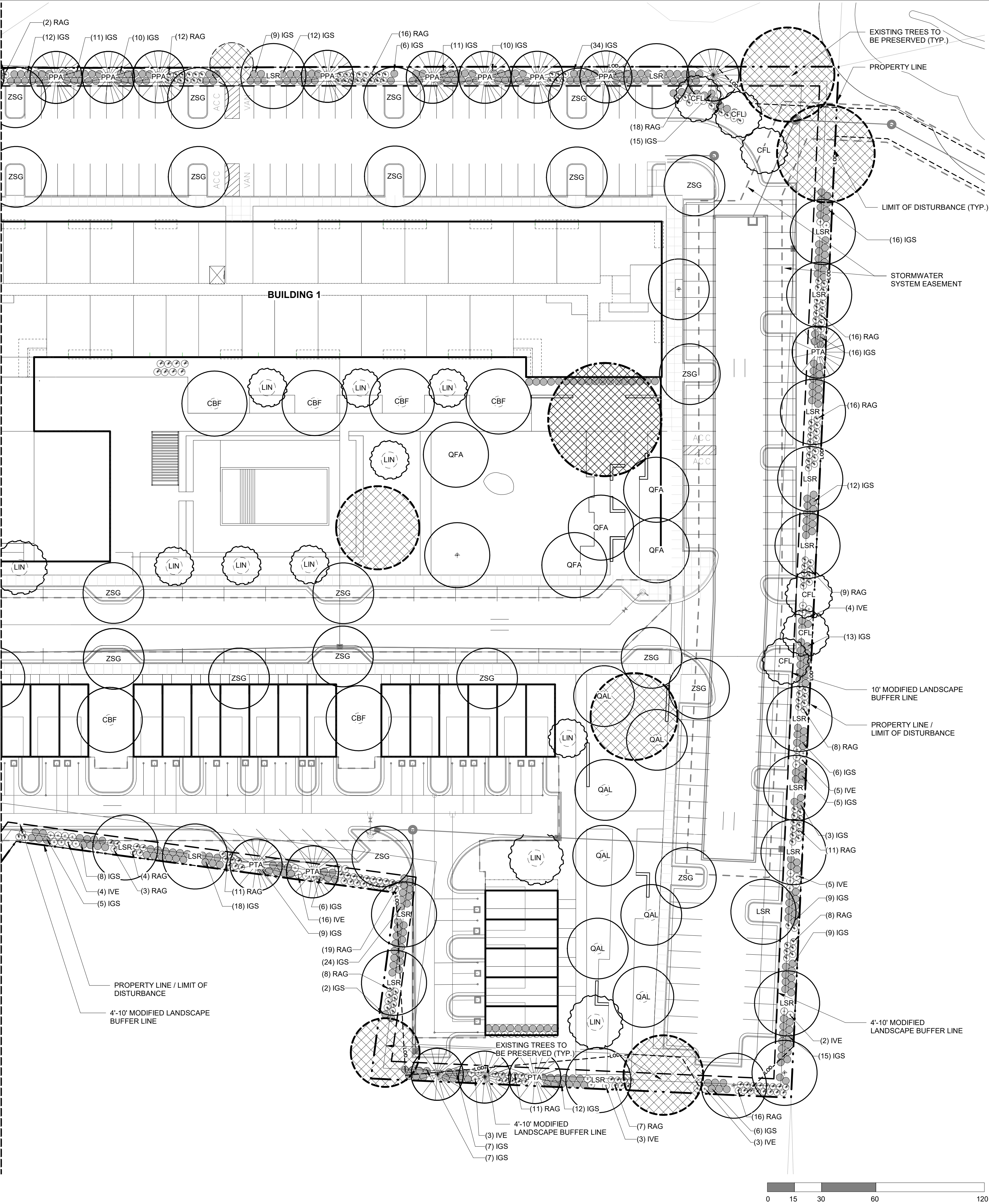
530 Hillsborough St
Raleigh, North Carolina 27603

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t 1 919.589.1820

TREE SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CANOPY TREES			
CBF	Carpinus betulus 'Fastigiata'	European Hornbeam	3" Cal
LSR	Liquidambar styraciflua 'Rotundiloba'	Seedless Sweetgum	3" Cal
QAL	Quercus alba	White Oak	4" Cal
QFA	Quercus falcata	Southern Red Oak	3" Cal
QNI	Quercus nigra	Water Oak	3" Cal
QP	Quercus phello	Willow Oak	4" Cal
ZSG	Zelkova serrata 'Green Vase'	Green Vase Zelkova	4" Cal
EVERGREEN TREES			
PPA	Pinus palustris	Longleaf Pine	2.5" Cal
PTA	Pinus taeda	Loblolly Pine	2.5" Cal
UNDERSTORY TREES			
CFL	Cornus florida	Flowering Dogwood	2.5" Cal
LIN	Lagerstroemia indica x fauriei 'Natchez'	Natchez Crape Myrtle	3" Cal
Grand total			

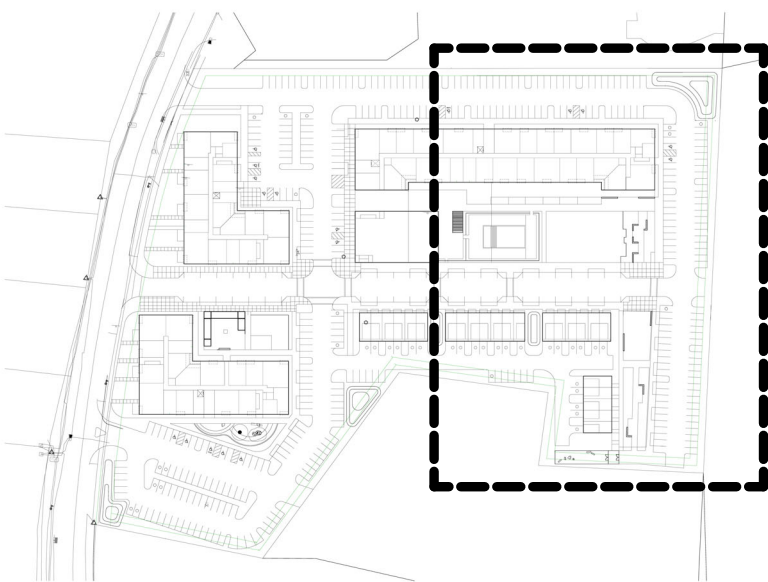
SHRUB & ORNAMENTAL GRASS SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
ORNAMENTAL GRASS			
MCW	Muhlenbergia capillaris 'White Cloud'	White Cloud Muhly Grass	#3
SHRUB			
AGL	Abelia x grandiflora 'Little Richard'	Little Richard Abelia	#3
CAH	Clethra alnifolia 'Hummingbird'	Sweet Pepperbush	#3
CSA	Cornus sericea 'Arctic Fire'	Red Twig Dogwood	#3
DVJ	Distylium x 'Vintage Jade'	Vintage Jade Evergreen Witch Hazel	#3
HQS	Hydrangea quercifolia 'Sike's Dwarf'	Dwarf Oakleaf Hydrangea	#5
HQU	Hydrangea quercifolia	Oakleaf Hydrangea	#3
IGS	Ilex glabra 'Shamrock'	Inkberry Holly	#3
IVE	Ilex verticillata	Winterberry Holly	#3
LCJ	Loropetalum chinense 'Jazz Hands White'	White Chinese Fringe Flower	#5
RAG	Rhus aromatica 'Grow-low'	Dwarf Sumac 'Gro-low'	#3
TMD	Taxus x media 'Densiformis'	Dense Yew	#3

PERENNIAL SCHEDULE - KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CCD	Carex cherokeensis	Cherokee Sedge	#1
CPE	Carex pensylvanica	Sedge	#1



LEGEND

- LOD --- LIMITS OF DISTURBANCE
- TP - TREE PROTECTION FENCE
- - - - - PROPERTY LINE
- CANOPY TREES
- UNDERSTORY TREES
- EVERGREEN TREES
- EXISTING TREES TO BE PRESERVED



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BARBEE CHAPEL APARTMENTS

CONDITIONAL ZONING PERMIT

DRAWINGS

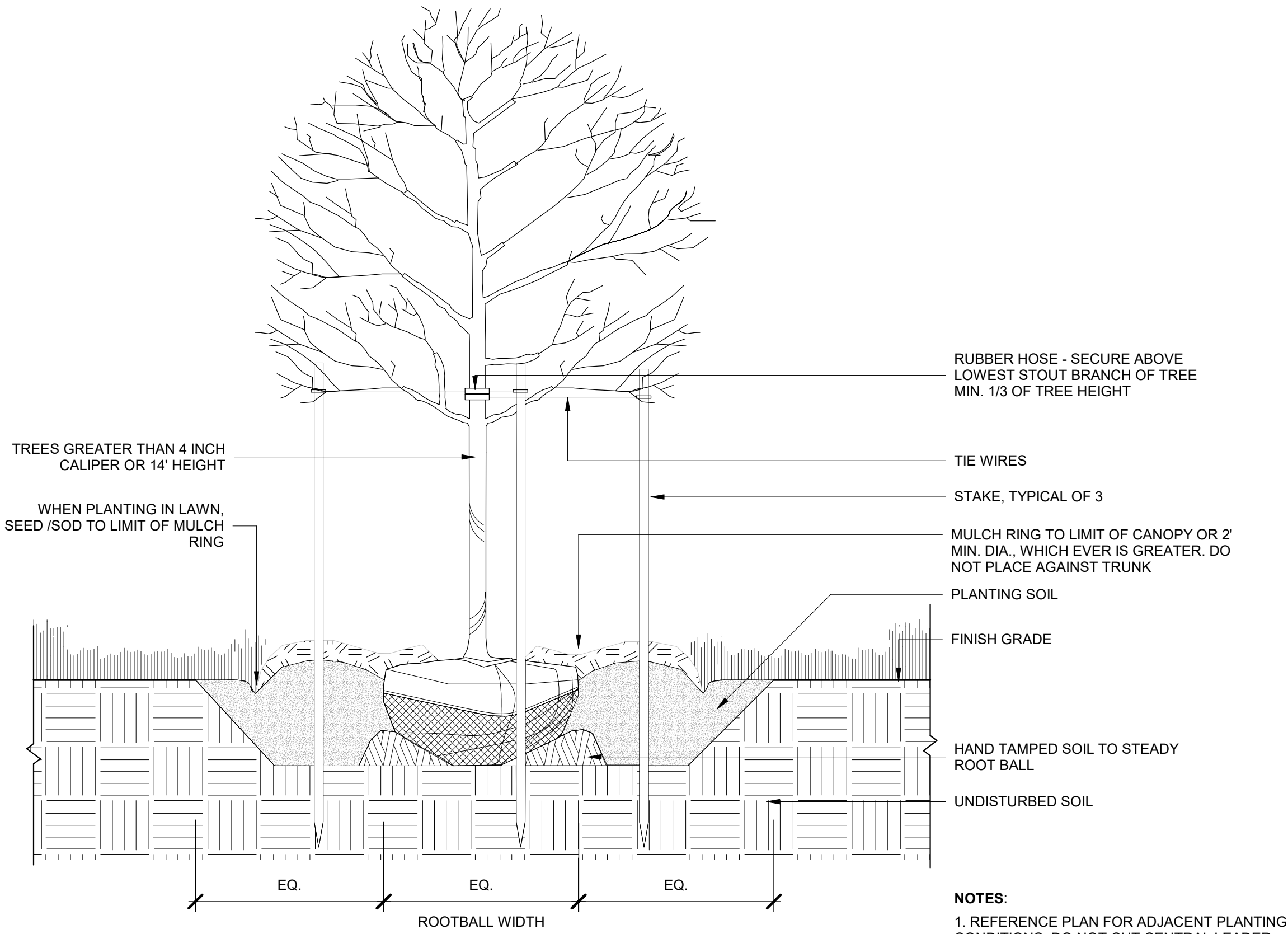
5101 BARBEE CHAPEL RD

CHAPEL HILL, NORTH CAROLINA, 27517

REVISIONS		
NO.	DATE	REVISION DESCRIPTION
1	11/21/2022	1ST ROUND COMMENTS

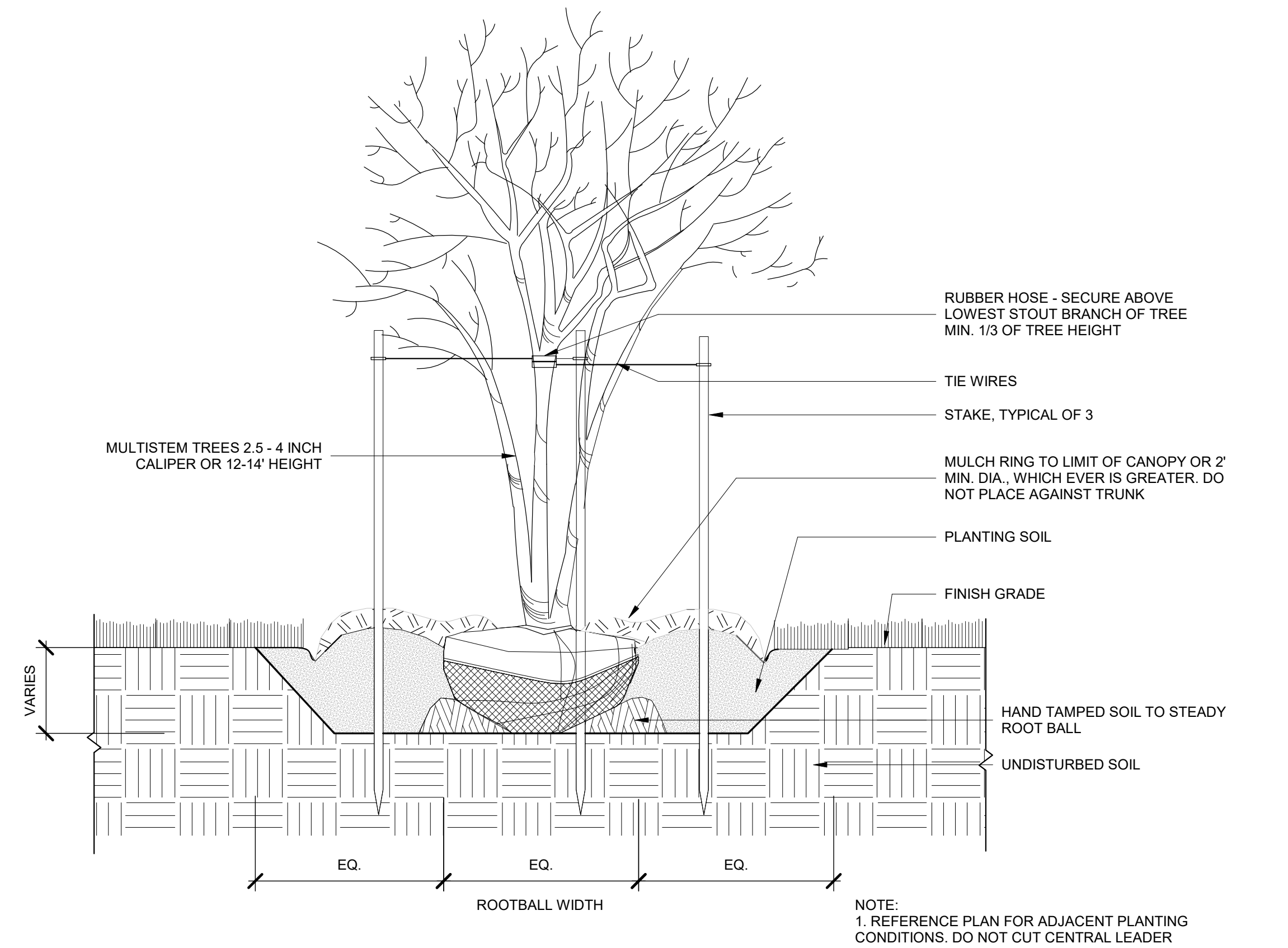
PLAN INFORMATION	
PROJECT NO.:	P200798

SCALE:	AS INDICATED
DATE:	09/29/2022



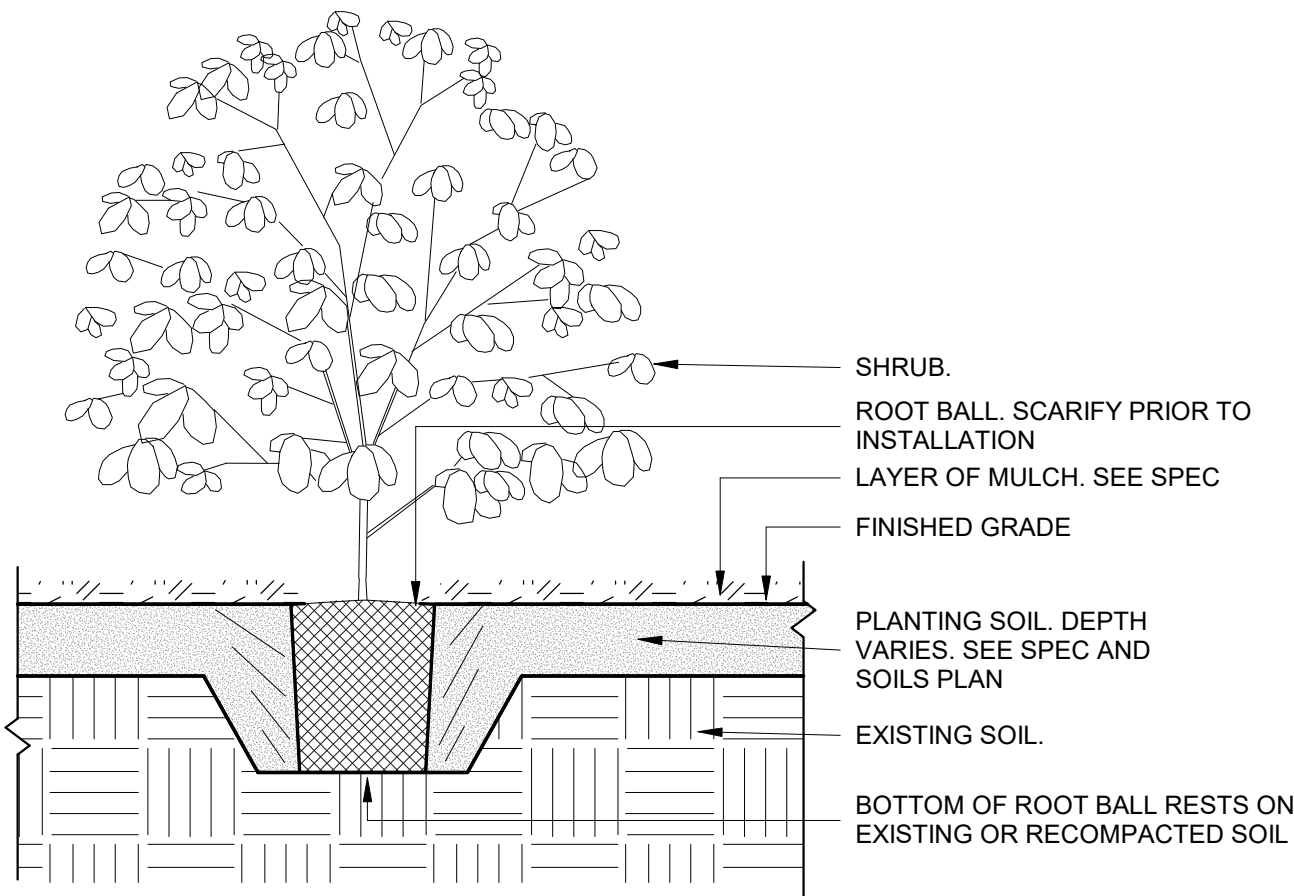
SHADE TREE PLANTING
SCALE: 3/4" = 1'-0"

3



ORNAMENTAL TREE PLANTING
SCALE: 3/4" = 1'-0"

1



SHRUB PLANTING DETAIL
SCALE: 3/4" = 1'-0"

2

TREE SCHEDULE					
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	COMMENTS
CANOPY TREES					
CBF	Carpinus betulus 'Fastigiata'	European Hornbeam	3" Cal	B&B	Limb lowest branch to 7'-0"
LSR	Liquidambar styraciflua 'Rotundiloba'	Seedless Sweetgum	3" Cal	B&B	Limb lowest branch to 7'-0"
QAL	Quercus alba	White Oak	4" Cal	B&B	Limb lowest branch to 7'-0"
QFA	Quercus falcata	Southern Red Oak	3" Cal	B&B	Limb lowest branch to 7'-0"
QNI	Quercus nigra	Water Oak	3" Cal	B&B	Limb lowest branch to 7'-0"
QP	Quercus phello	Willow Oak	4" Cal	B&B	Limb lowest branch to 7'-0"
ZSG	Zelkova serrata 'Green Vase'	Green Vase Zelkova	4" Cal	B&B	Limb lowest branch to 7'-0"
EVERGREEN TREES					
PPA	Pinus palustris	Longleaf Pine	2.5" Cal	B&B	
PTA	Pinus taeda	Loblolly Pine	2.5" Cal	B&B	
UNDERSTORY TREES					
CFL	Cornus florida	Flowering Dogwood	2.5" Cal	B&B	
LIN	Lagerstroemia indica x fauriei	Natchez Crape Myrtle	3" Cal	B&B	
Grand total					

SHRUB & ORNAMENTAL GRASS SCHEDULE				
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE	COMMENTS
SHRUB				
AGL	Abelia x grandiflora 'Little Richard'	Little Richard Abelia	#3	36" o.c.
CAH	Clethra alnifolia 'Hummingbird'	Sweet Pepperbush	#3	36" o.c.
CSA	Cornus sericea 'Arctic Fire'	Red Twig Dogwood	#3	36" o.c.
DVJ	Distylium x 'Vintage Jade'	Vintage Jade Evergreen Witch Hazel	#3	48" o.c.
HQS	Hydrangea quercifolia 'Sike's Dwarf'	Dwarf Oakleaf Hydrangea	#5	30" o.c.
HQU	Hydrangea quercifolia	Oakleaf Hydrangea	#3	48" o.c.
IGS	Ilex glabra 'Shamrock'	Inkberry Holly	#3	36" o.c.
IVE	Ilex verticillata	Winterberry Holly	#3	48" o.c.
LCJ	Loropetalum chinense 'Jazz Hands White'	White Chinese Fringe Flower	#5	36" o.c.
RAG	Rhus aromatica 'Grow-low'	Dwarf Sumac 'Gro-low'	#3	48" o.c.
TMD	Taxus x media 'Densiformis'	Dense Yew	#3	48" o.c.

When selecting shrub species, a minimum of 50% of the total number of required shrubs should be evergreen.

PERENNIAL SCHEDULE				
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING INCHES
CCD	Carex cherokeensis	Cherokee Sedge	#1	18
CPE	Carex pensylvanica	Sedge	#1	18



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BARBEE CHAPEL APARTMENTS

CONDITIONAL ZONING PERMIT

DRAWINGS

5101 BARBEE CHAPEL RD

CHAPEL HILL, NORTH CAROLINA, 27517

REVISIONS

NO.	DATE	REVISION DESCRIPTION
1	11/21/2022	1ST ROUND COMMENTS

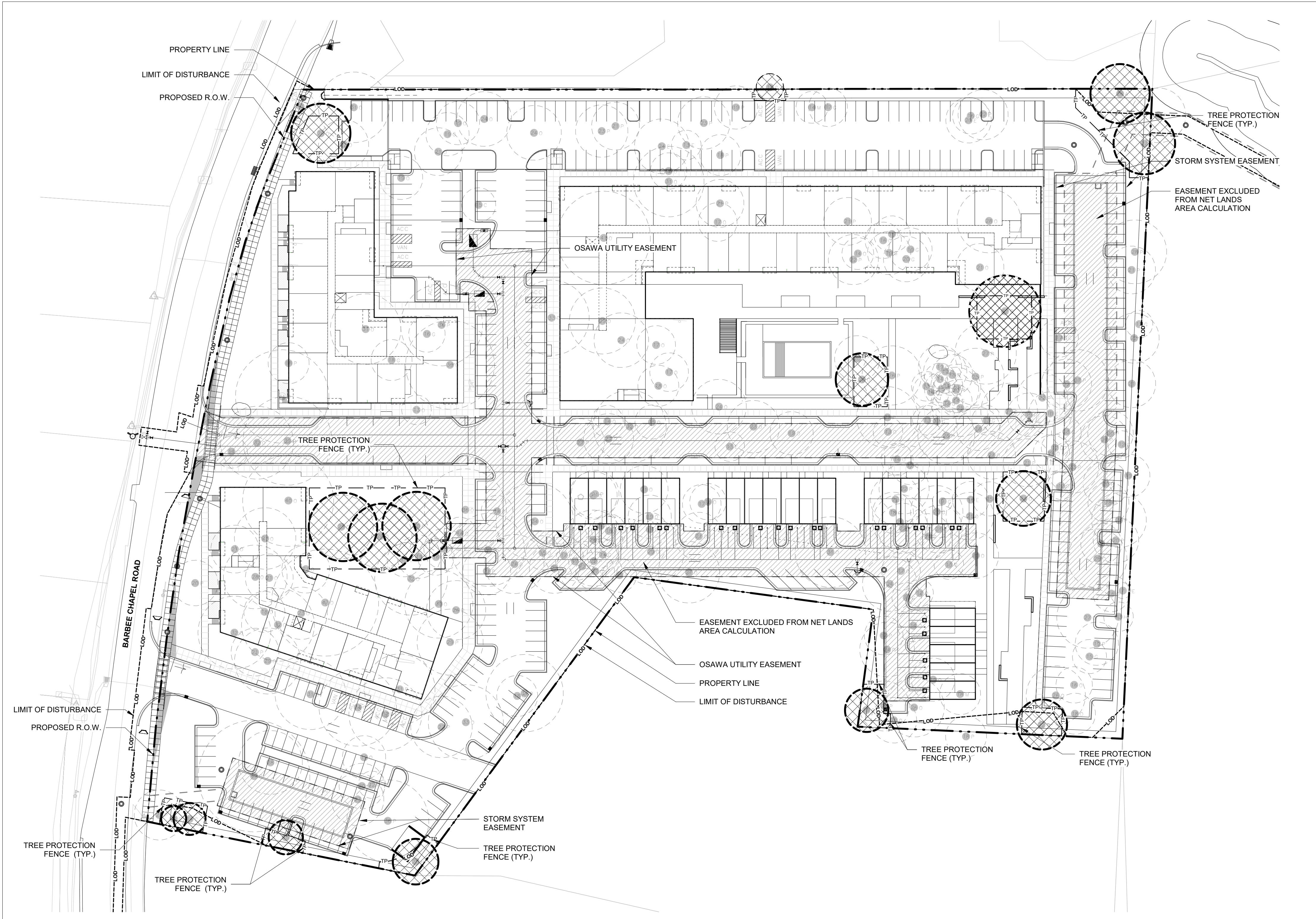
PLAN INFORMATION

PROJECT NO.: P200798

SCALE: AS INDICATED
DATE: 09/29/2022

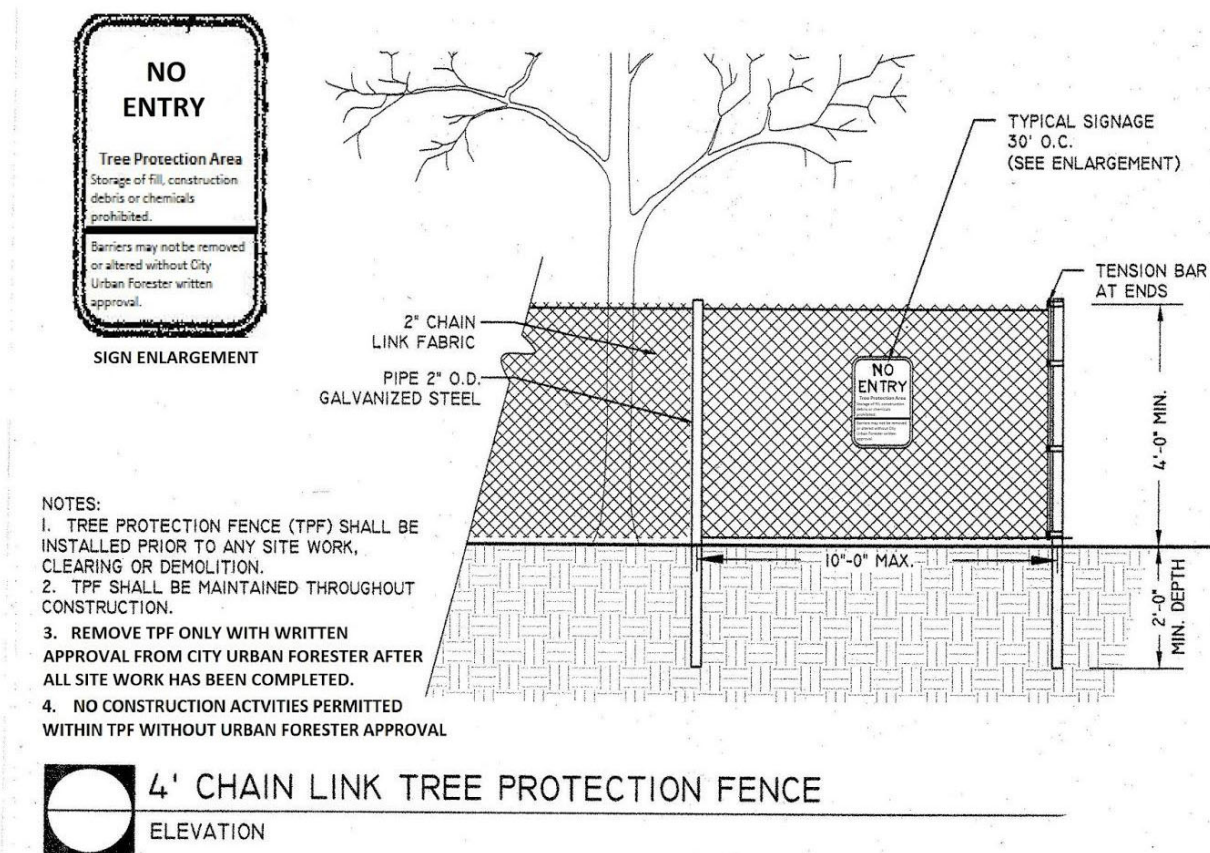
PLANTING DETAILS AND
PLANTING SCHEDULE

L1.04



TREE PROTECTION PLAN
SCALE: 1" = 50'-0"

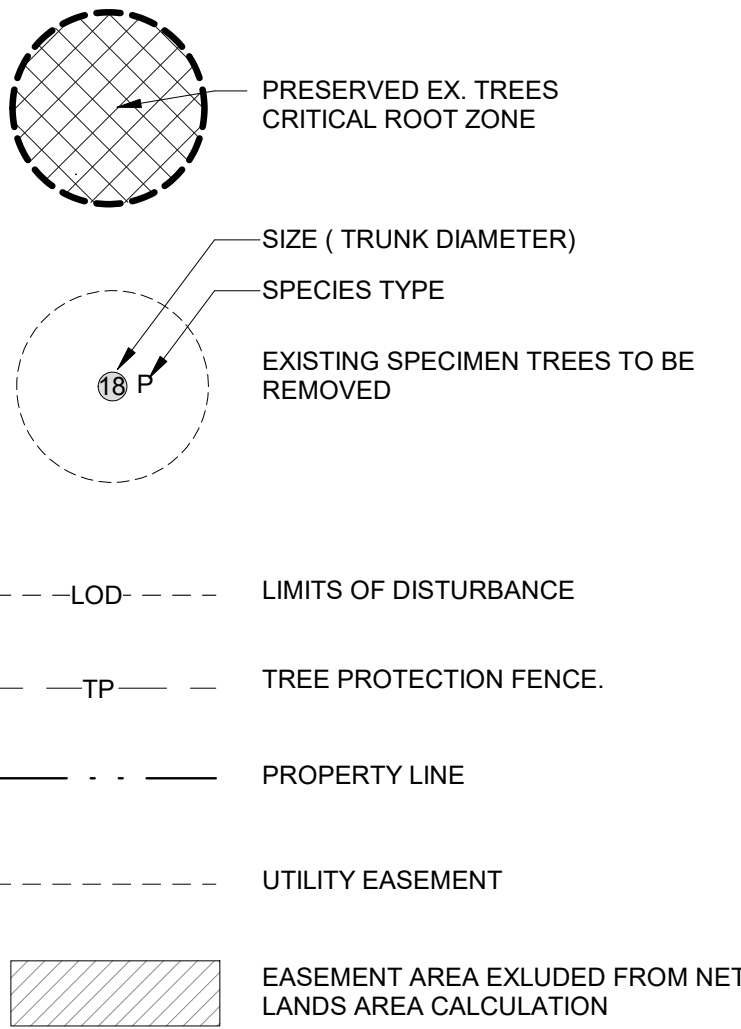
1



TREE PROTECTION FENCE DETAIL
SCALE: 3/16" = 1'-0"

2

LEGEND



EXISTING TREE LEGEND

- A ASH
- B BEECH
- C CEDAR
- E ELM
- G SWEET GUM
- H HICKORY
- M MAPLE
- O OAK
- P PINE

- RARE TREES (refer to LUMO Section 5.7.6) - 0
- SIGNIFICANT TREE STANDS - NONE (refer to Tree Evaluation Report)
- SPECIMEN TREES (refer to LUMO Section 5.7.6) - 240
- SPECIMEN TREES TO BE PROTECTED - 16
- SPECIMEN TREES TO BE REMOVED - 224
- LOT SIZE - 455,841 SQF
- NET LOT SIZE (excl. easements and ROWs) - 380,454 SQF
- 30% REQUIRED TREE CANOPY COVERAGE (Multi-Family Residential) - 114,136 SQF
- AREA OF EXISTING CANOPY PROTECTED - 26,934 SQF
- CANOPY DEFICIT - 87,202 SQF
- REPLACEMENT TREES REQUIRED (as per LUMO Section 5.7.2(c)) - 175
- REPLACEMENT TREES PROPOSED - 180
- Proposed Canopy Trees: 180
- Credits on Trees over 4" Cal (refer to LUMO Section 5.7.2 (c)): 0
- Total: 180

NOTES:

- Protective fencing, fences, or other equally effective measures as determined by the town manager, shall be used to protect areas identified on an approved landscape protection plan during demolition and construction activity. Protective fencing shall be installed according to town standards. Field adjustments may be allowed subject to prior approval by the town manager. All land disturbing activity, storage of equipment, building material, soil, and other debris shall be kept outside the protected areas.
- Landscaping activities taking place after the removal of protective fencing shall be accomplished with light machinery or hand labor and in accordance with the town's landscaping standards and specifications. This requirement should be noted on the plans.
- Prior to the commencement of any activities requiring a zoning compliance permit, a pre-construction conference with the town's urban forester or landscape architect shall take place to review procedures for protection and management of all protected landscape elements identified on the landscape protection plan.
- On-site supervision. For all development other than that related to single-family and two-family dwellings on individual zoning lots, the following on-site supervision is required:
 - The applicant shall designate as landscape protection supervisors one or more persons who have completed instruction in landscape protection procedures with the town.
 - It shall be the duty of the landscape protection supervisor to ensure the protection of new or existing landscape elements, as defined in the landscape protection plan. The approved landscape protection supervisor shall supervise all site work to assure that development activity conforms to provisions of the approved landscape protection plan. At least one (1) identified landscape protection supervisor shall be present on the development site at all times when activity that could damage or disturb soil and adjacent landscape elements occurs such as:
 - Clearing and grubbing;
 - Any excavation, grading, trenching or moving of soil;
 - Removal, installation, or maintenance of all landscape elements and landscape protection devices; or
 - Delivery, transporting, and placement of construction materials and equipment on site.



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BARBEE CHAPEL APARTMENTS
CONDITIONAL ZONING PERMIT
DRAWINGS
5101 BARBEE CHAPEL RD
CHAPEL HILL, NORTH CAROLINA, 27517

REVISIONS

NO.	DATE	REVISION DESCRIPTION
1	11/21/2022	1ST ROUND COMMENTS

PLAN INFORMATION

PROJECT NO.: P200798

SCALE: AS INDICATED
DATE: 09/29/2022

TREE PROTECTION PLAN

L2.00



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BARBEE CHAPEL APARTMENTS CONDITIONAL ZONING PERMIT DRAWINGS 5101 BARBEE CHAPEL RD CHAPEL HILL, NORTH CAROLINA 27517

REVISIONS

NO.	DATE	REVISION DESCRIPTION
	11/21/2022	REVISED PER 1ST CZP COMMENTS

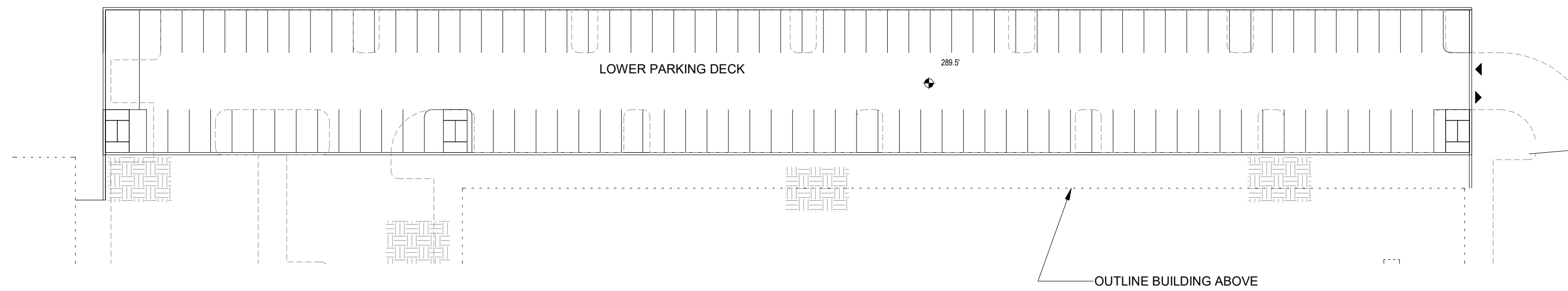
PLAN INFORMATION

PROJECT NO.: P200798

SCALE: AS INDICATED
DATE: 09.29.2022

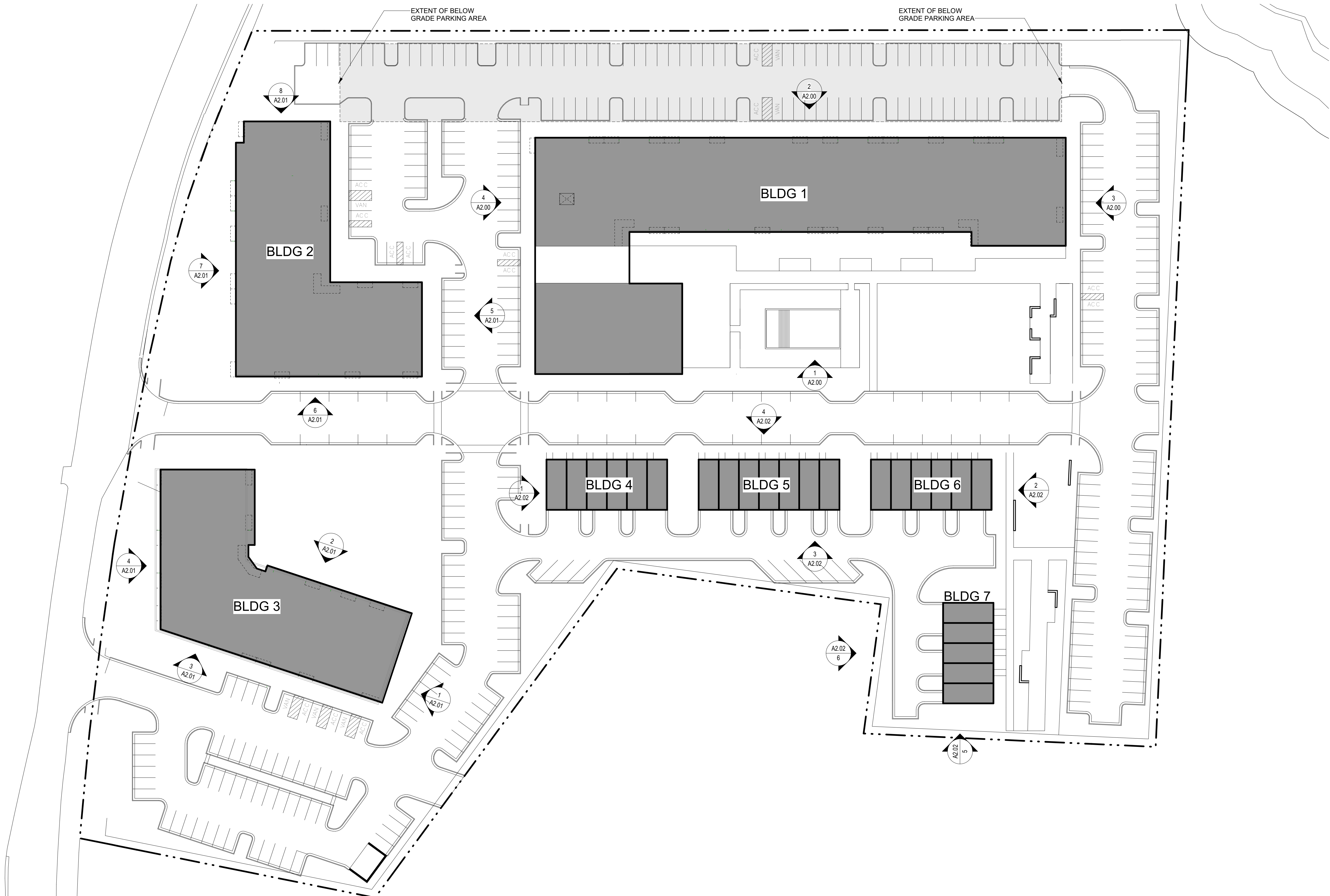
SITE PLAN

A1.00



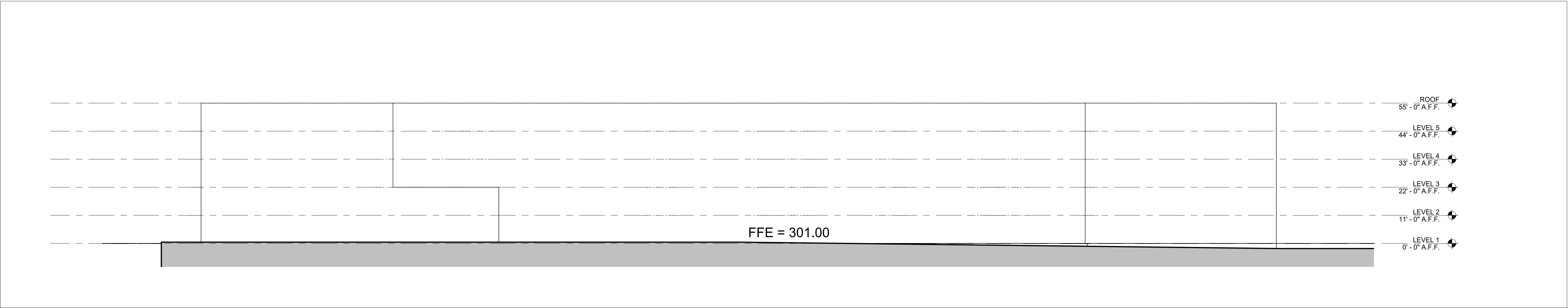
BASEMENT LEVEL
SCALE: 1" = 40'-0"

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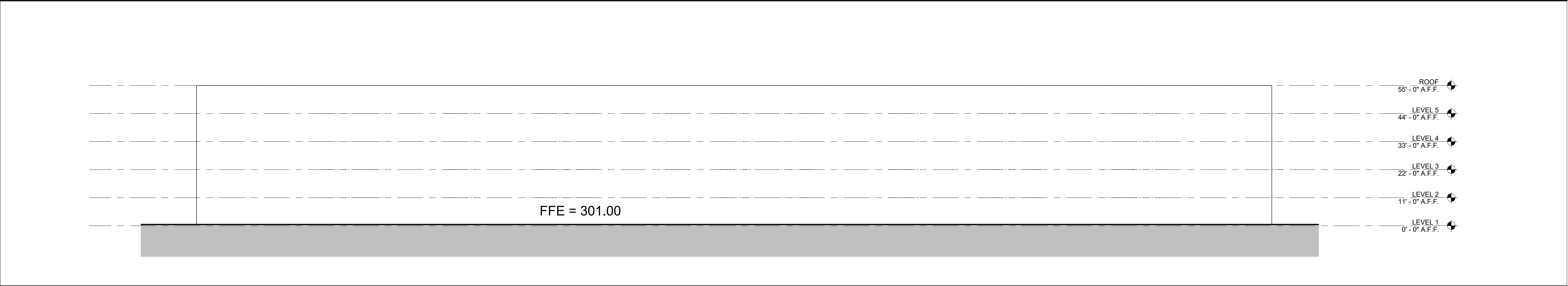


ILLUSTRATIVE SITE PLAN
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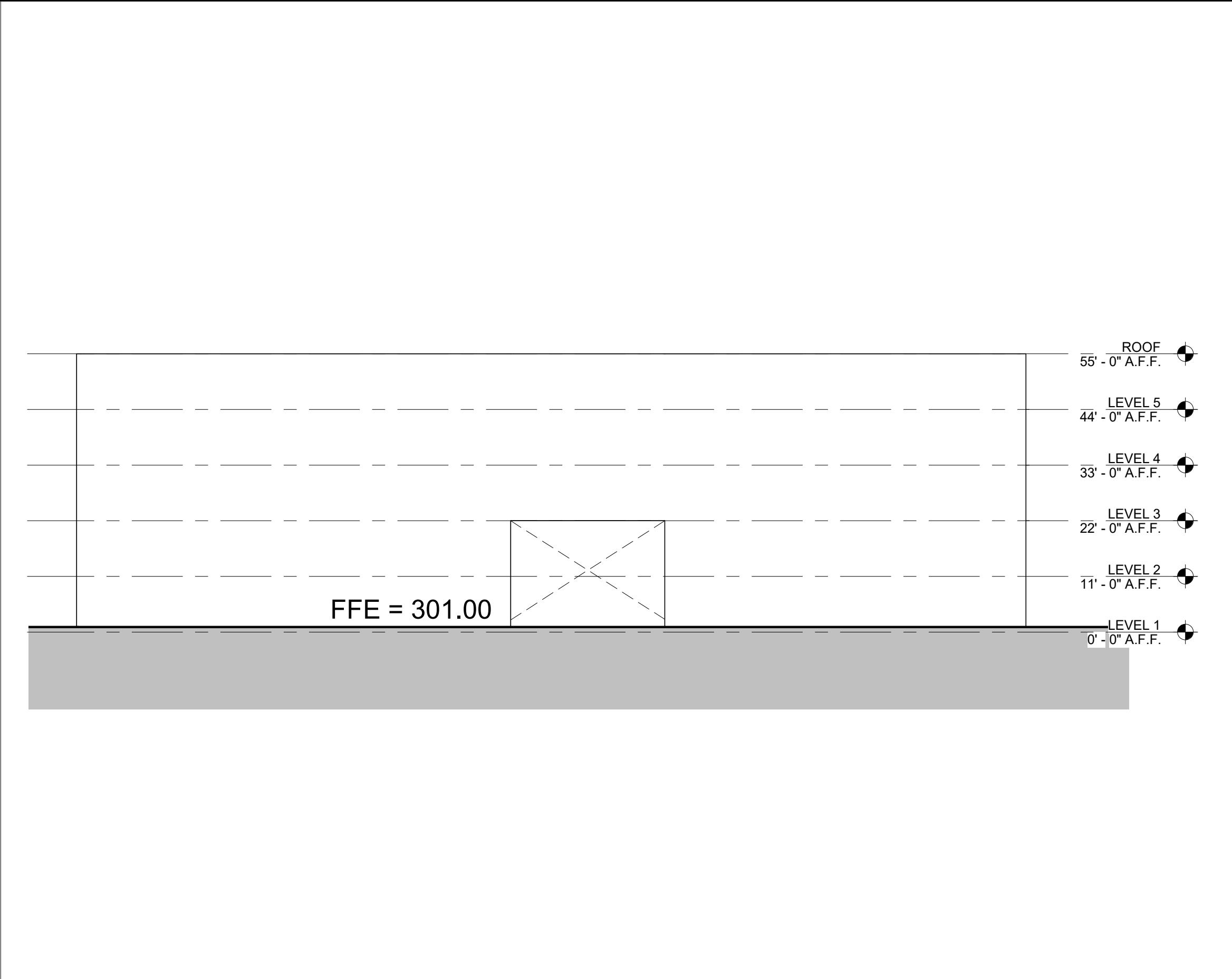
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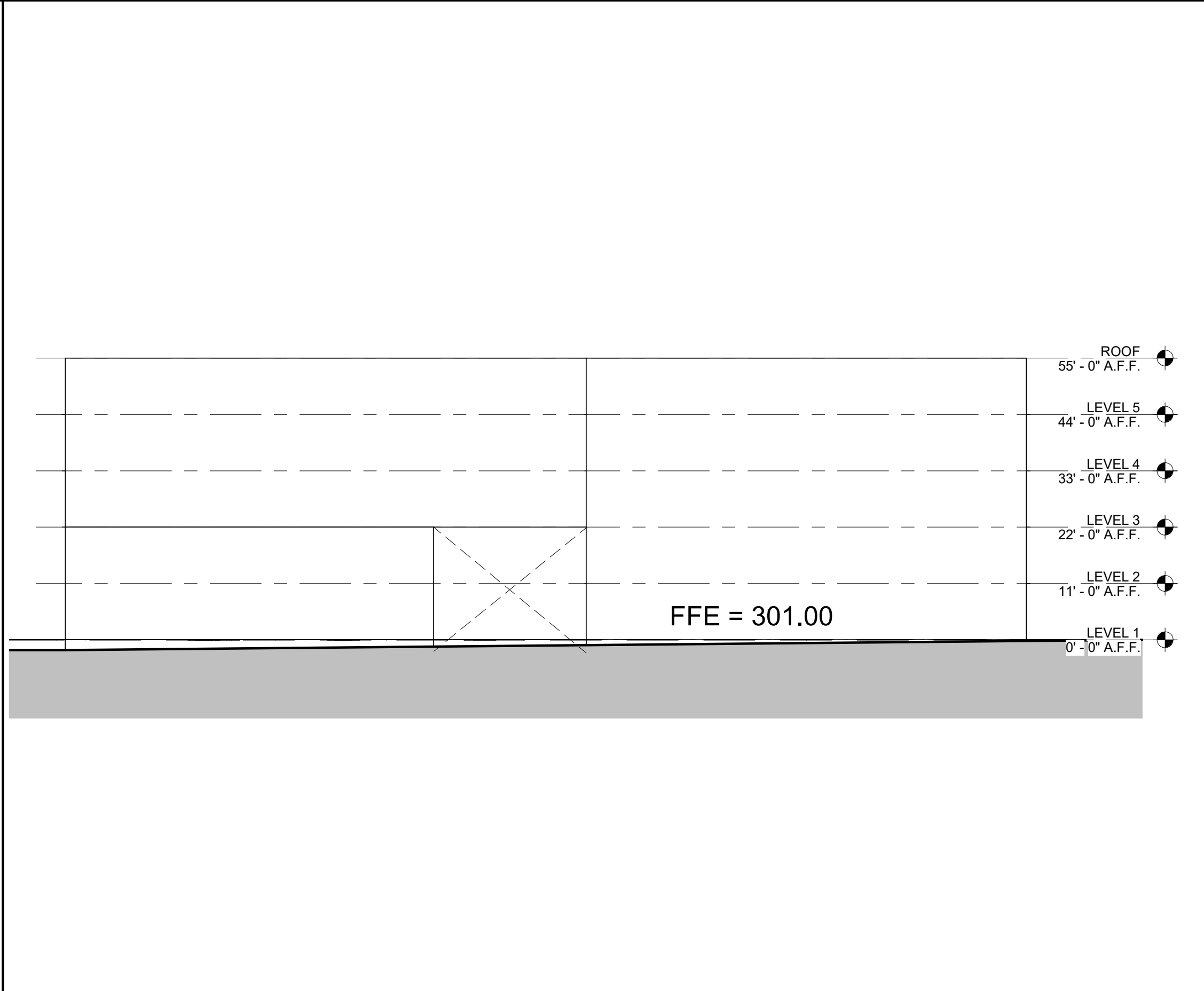
BLDG 1- SOUTH ELEV
REF DRAWING:1 / A1.00 SCALE: 1" = 20'-0" 1



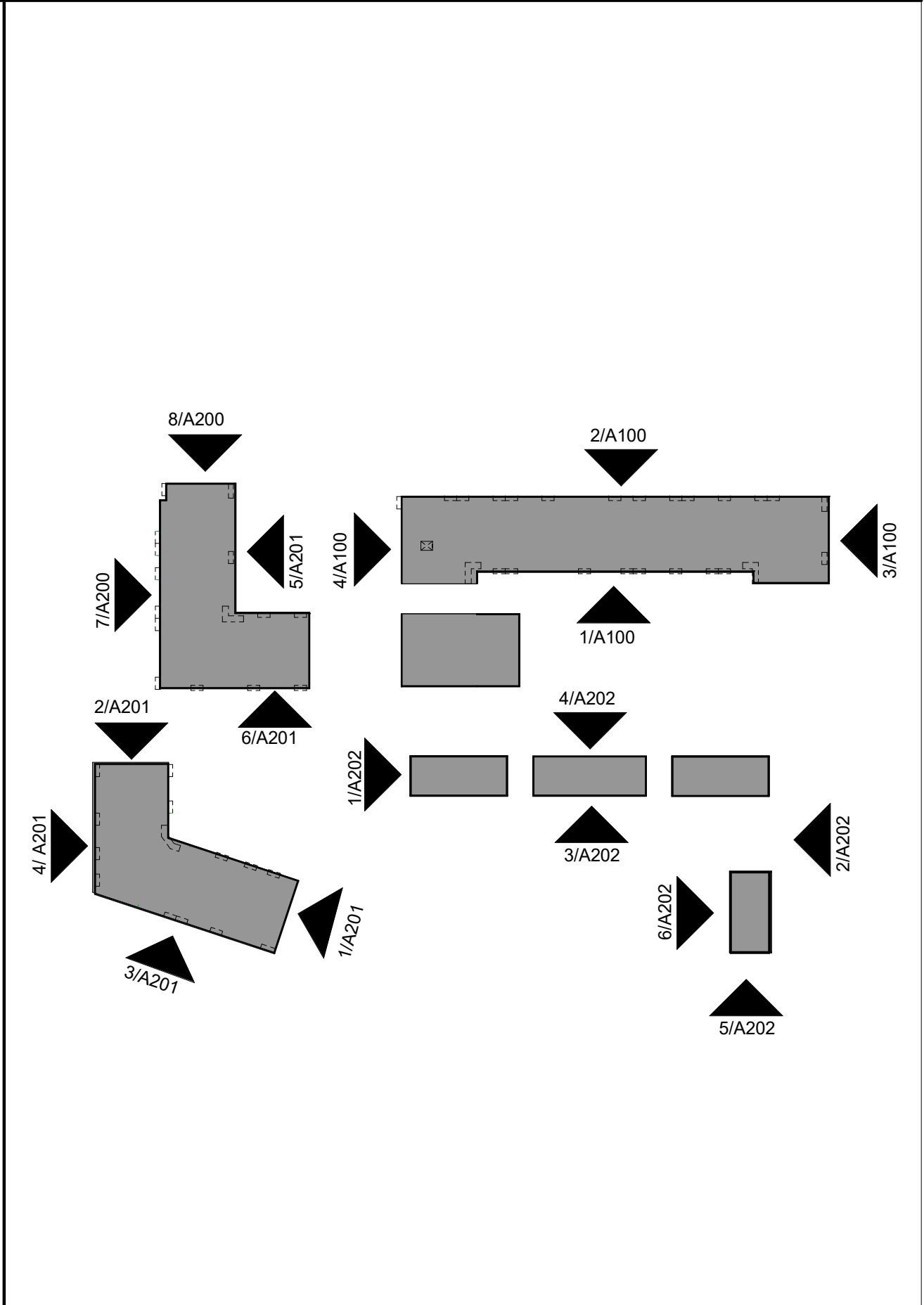
BLDG 1 - NORTH ELEV
REF DRAWING:1 / A1.00 SCALE: 1" = 20'-0" 2



BLDG 1- WEST ELEV
REF DRAWING:1 / A1.00 SCALE: 1" = 20'-0" 4



BLDG 1 - EAST ELEV
REF DRAWING:1 / A1.00 SCALE: 1" = 20'-0" 3



KEY PLAN
REF DRAWING:1 / A2.02 SCALE: 1" = 15'0" 0



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REVISIONS		
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PLAN INFORMATION

PROJECT NO.: P200798

SCALE: AS INDICATED
DATE: 09.29.2022

BUILDING ELEVATIONS
A2.00



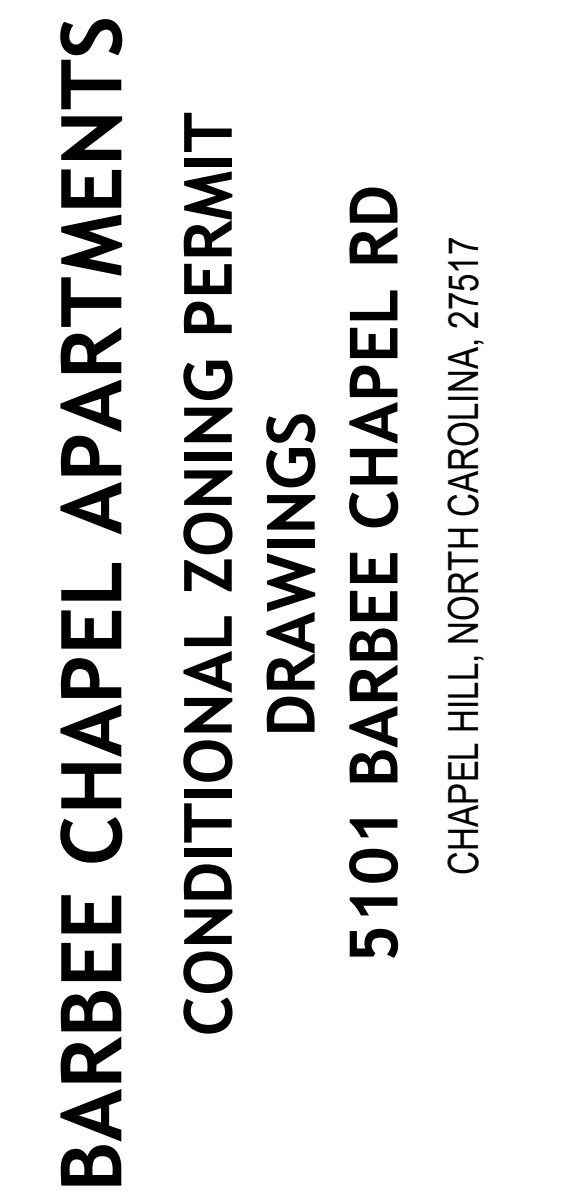
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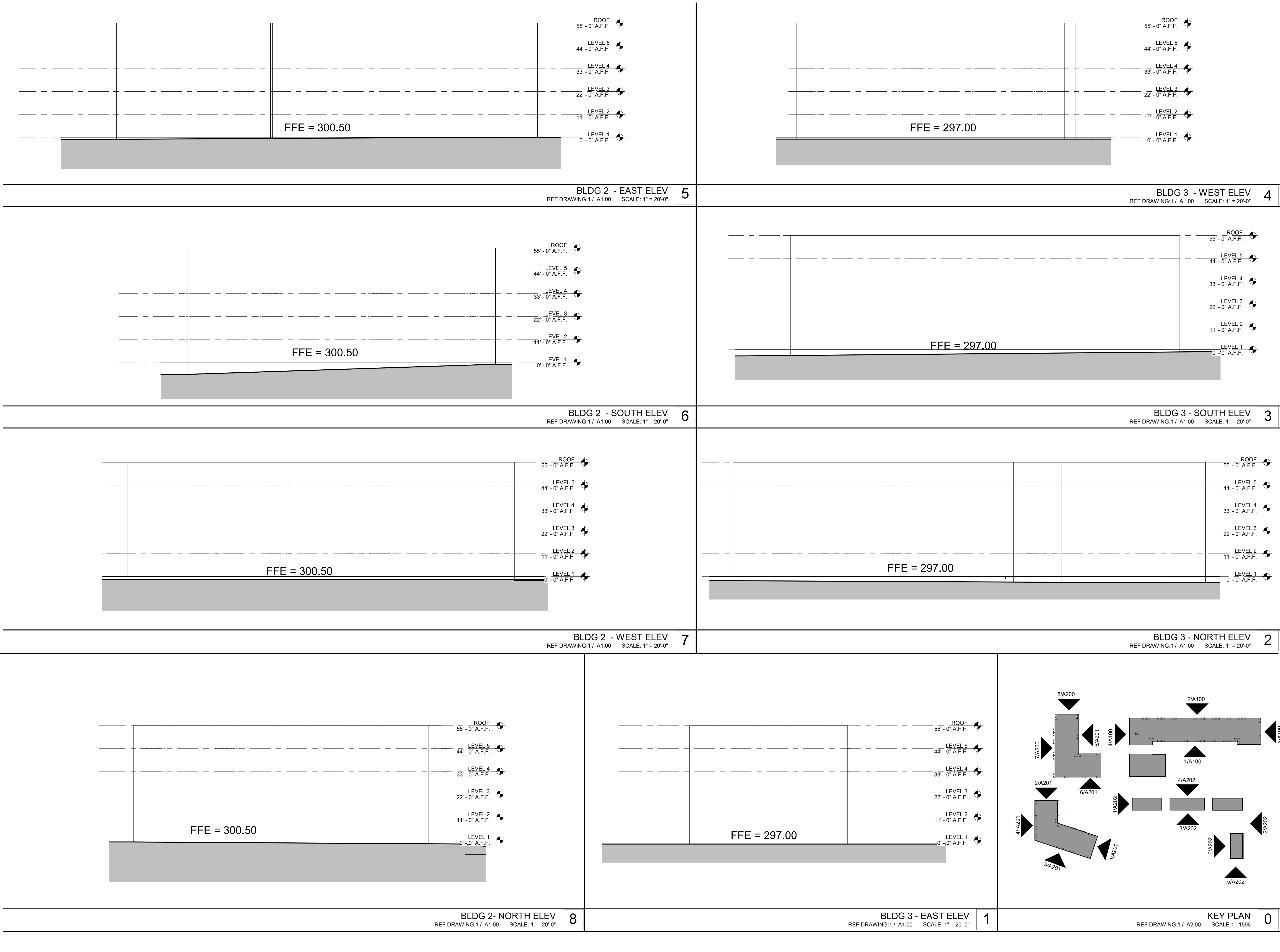
PLAN INFORMATION

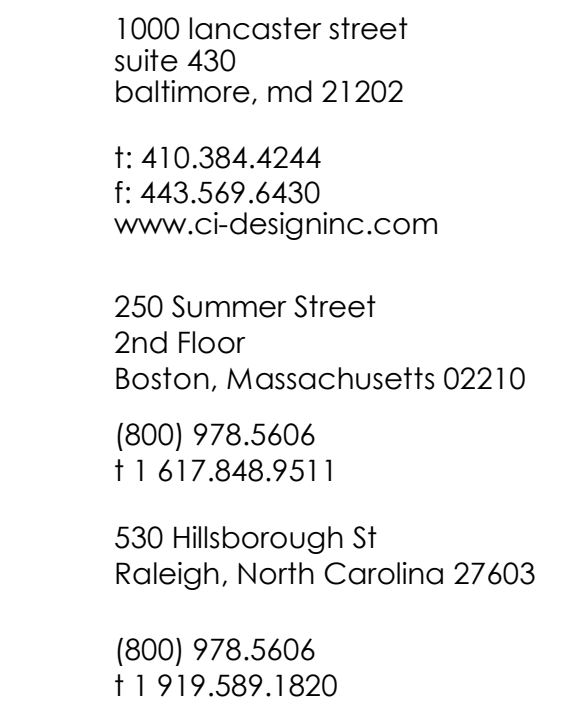
PROJECT NO.: P200798

SCALE: AS INDICATED
DATE: 09.29.2022

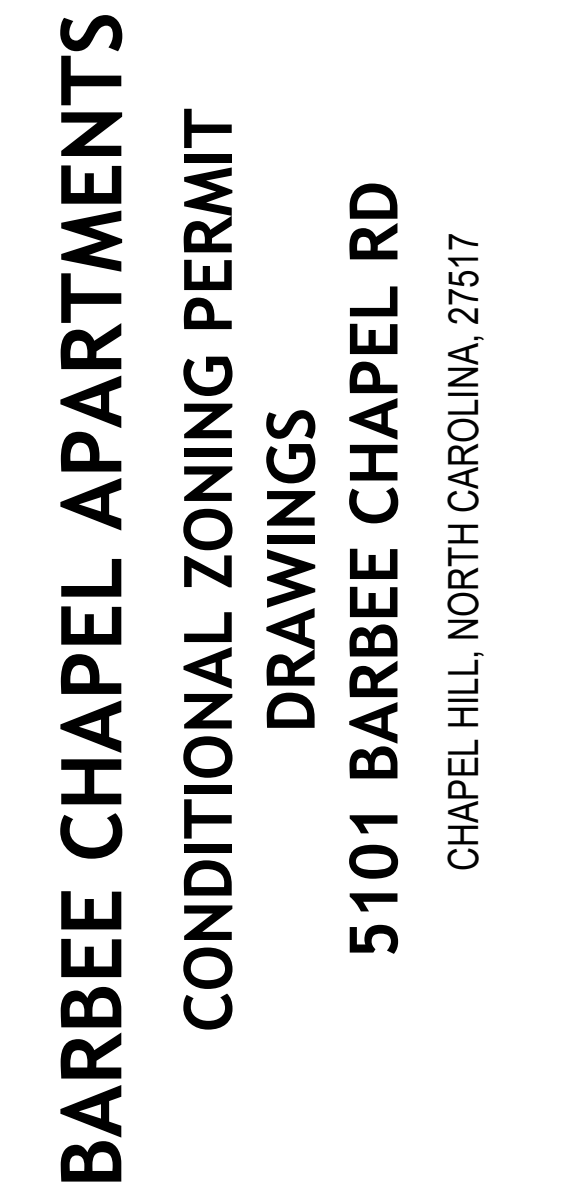
BUILDING ELEVATIONS

A2.01





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NO.	DATE	REVISION DESCRIPTION
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PROJECT NO.: P200798

TOWNHOME ELEVATIONS

0