



LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		CABLE TV, JUNCTION BOX
		CABLE TV, MANHOLE
		CABLE TV, OVERHEAD
		CABLE TV, PANEL BOX
		CABLE TV, PEDESTAL
		CABLE TV, STUB OUT
		CABLE TV, UNDERGROUND
		CABLE TV, WITNESS POST
		CHANNEL
		COMMUNICATION, HANDHOLE
		COMMUNICATION, JUNCTION BOX
		COMMUNICATION, MANHOLE
		COMMUNICATION, OVERHEAD
		COMMUNICATION, PANEL BOX
		COMMUNICATION, PEDESTAL
		COMMUNICATION, STUB OUT
		COMMUNICATION, UNDERGROUND
		COMMUNICATION, WITNESS POST
		CONTROL, BENCHMARK
		CONTROL, GPS
		CONTROL, MAPPING
		CONTROL, REFERENCE
		CONTROL, TRAVERSE
		CURB
		CURB DEPRESSION
		EDGE OF PAVEMENT
		EDGE OF GRAVEL
		EASEMENT
		FENCE
		FIBER OPTIC, HANDHOLE
		FIBER OPTIC, JUNCTION BOX
		FIBER OPTIC, MANHOLE
		FIBER OPTIC, OVERHEAD
		FIBER OPTIC, PANEL BOX
		FIBER OPTIC, PEDESTAL
		FIBER OPTIC, STUB OUT
		FIBER OPTIC, UNDERGROUND
		FIBER OPTIC, WITNESS POST
		FLOODPLAIN
		FUEL, MANHOLE
		FUEL, OVERHEAD
		FUEL, PLUG
		FUEL, PUMP
		FUEL, UNDERGROUND
		GUIDE RAIL
		LIMITS OF DISTURBANCE
		MARKING, HANDICAP PARKING
		NATURAL GAS, METER
		NATURAL GAS, MANHOLE
		NATURAL GAS, OVERHEAD
		NATURAL GAS, STUB OUT
		NATURAL GAS, UNDERGROUND
		NATURAL GAS, WITNESS POST
		PHONE, HANDHOLE
		PHONE, JUNCTION BOX
		PHONE, MANHOLE
		PHONE, OVERHEAD
		PHONE, PANEL BOX
		PHONE, PEDESTAL
		PHONE, STUB OUT
		PHONE, UNDERGROUND
		PHONE, WITNESS POST
		POWER, GUY POLE
		POWER, GUY WIRE
		POWER, HANDHOLE
		POWER, JUNCTION BOX
		POWER, SINGLE HEAD LIGHT
		POWER, DOUBLE HEAD LIGHT
		POWER, THREE HEAD LIGHT
		POWER, FOUR HEAD LIGHT
		POWER, LIGHT
		POWER, SPOT LIGHT
		POWER, LIGHT POLE SINGLE
		POWER, LIGHT POLE DOUBLE
		POWER, MANHOLE
		POWER, OVERHEAD
		POWER, METER
		POWER, PANEL BOX
		POWER, PEDESTAL
		POWER, STUB OUT
		POWER, TRANSFORMER
		POWER, UNDERGROUND
		POWER, UTILITY POLE
		POWER, WITNESS POST
		POWER, YARD LIGHT
		PROPERTY, LINE
		LEGAL RIGHT-OF-WAY
		PROPERTY, CORNER FOUND
		PROPERTY, CORNER FOUND (OTHERS)
		PROPERTY, CONCRETE MONUMENT
		PROPERTY, ADJOINING LINED
		PROPERTY, LINE RESERVED
		RAIL, MILE MARKER
		RAIL, PANEL BOX
		RAIL, TRACK
		SITE, AIR COMPRESSOR
		SITE, AIR CONDITIONER
		SITE, BOLLARD
		SITE, BORING LOCATION
		BUILDING
		SITE, FLAG POLE
		SITE, HEAD STONE
		SITE, MAIL BOX
		SITE, MONITOR WELL
		SITE, PARKING METER
		SITE, POST
		SITE, SIGN POST AND BOARD
		SITE, TRAFFIC SIGN
		SOIL BOUNDARY
		SOIL LABEL

GENERAL NOTES:		
1. APPLICANT: COMMUNITY CHURCH OF CHAPEL HILL, 106 PUREFOY ROAD, CHAPEL HILL, NORTH CAROLINA 27514	RESPONSIBLE OFFICER: BRAD KOSIBA	
2. EXISTING TOPOGRAPHIC FEATURES WERE TAKEN FROM A TOPOGRAPHIC SURVEY PLAN PROVIDED BY PENNON ASSOCIATES, ON 5/22/2018		
3. UTILITY NOTES: A. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND STRUCTURES IS NOT GUARANTEED. B. LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND SHALL BE CONFIRMED INDEPENDENTLY BY LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION. C. ALL UTILITIES AND SERVICES INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC, ETC. WITHIN THE LIMITS OF DISTURBANCE OR EXCAVATION, SANITARY SEWER AND LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE OWNER.		
4. FIRE WATCH: DURING CONSTRUCTION AND DEMOLITION WHERE HOT WORK, MATERIALS SUBJECT TO SPONTANEOUS COMBUSTION OR OTHER HAZARDOUS CONSTRUCTION OR DEMOLITION IS OCCURRING, THE OWNER OR THEIR DESIGNEE SHALL BE RESPONSIBLE FOR MAINTAINING A FIRE WATCH. THE FIRE WATCH SHALL CONSIST OF AT LEAST ONE PERSON WITH A MEANS OF COMMUNICATION. THE FIRE WATCH SHALL BE POSTED AT AN ADDRESS POSTED IN A CONSPICUOUS LOCATION AND SHALL MAINTAIN CONSTANT PATROLS. NC FPC 2012 SECTION 1404.		
5. CONSTRUCTION / DEMOLITION: ALL CONSTRUCTION AND DEMOLITION CONDUCTED SHALL BE IN COMPLIANCE OF THE CURRENT EDITION OF CHAPTER 14 OF THE NC FPC.		

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		SANITARY SEWER, CLEAN-OUT
		SANITARY SEWER, FORCE MAIN
		SANITARY SEWER, FORCE MAIN MANHOLE
		SANITARY SEWER, LATERAL
		SANITARY SEWER, MANHOLE
		SANITARY SEWER, UNDERGROUND (4" DIA TO 10" DIA)
		SANITARY SEWER, SEPTIC TANK
		SANITARY SEWER, STUB OUT
		SANITARY SEWER, VALVE
		SANITARY SEWER, WITNESS POST
		STREAM
		STORM SEWER, INLET
		STORM SEWER, HEADWALL
		STORM SEWER, MANHOLE
		STORM SEWER, UNDERGROUND
		STORM SEWER, DOWNSPOUT LOCATION
		STORM SEWER, ROOF DRAIN LINE
		STORM SEWER, STAND PIPE
		STORM SEWER, CLEAN-OUT
		STORM SEWER, WITNESS POST
		MINOR CONTOUR
		MAJOR CONTOUR
		SPOT ELEVATION
		TO BE REMOVED
		TRAFFIC, PAVEMENT MARKING, BIKE LANE
		TRAFFIC, PAVEMENT MARKING, TURN ARROWS
		TRAFFIC, PAVEMENT MARKING, HOV LANE
		TRAFFIC, HAND HOLE
		TRAFFIC, JUNCTION BOX
		TRAFFIC, MANHOLE
		TRAFFIC, PANEL BOX
		TRAFFIC, PEDESTAL
		TRAFFIC, PEDESTRIAN SIGNAL
		TRAFFIC, SIGNAL POLE
		TRAFFIC, SIGNAL POLE & LIGHT ARM
		TRAFFIC, STUB OUT
		VEGETATION, SHRUB
		VEGETATION, GRASS LINE / LANDSCAPED AREA
		VEGETATION, DECIDUOUS SHOWING CANOPY
		VEGETATION, CONIFEROUS SHOWING CANOPY
		VEGETATION, TREE LINE
		WATER, HOSE BIB
		WATER, FIRE HYDRANT
		WATER, IRRIGATION HEAD
		WATER, IRRIGATION VALVE BOX
		WATER, MANHOLE
		WATER, METER
		WATER, POST INDICATOR VALVE
		WATER, SIAMESE CONNECTION
		WATER, STUB OUT
		WATER, UNDERGROUND
		WATER, UNDERGROUND FIRE
		WATER, VALVE
		WATER, WITNESS POST

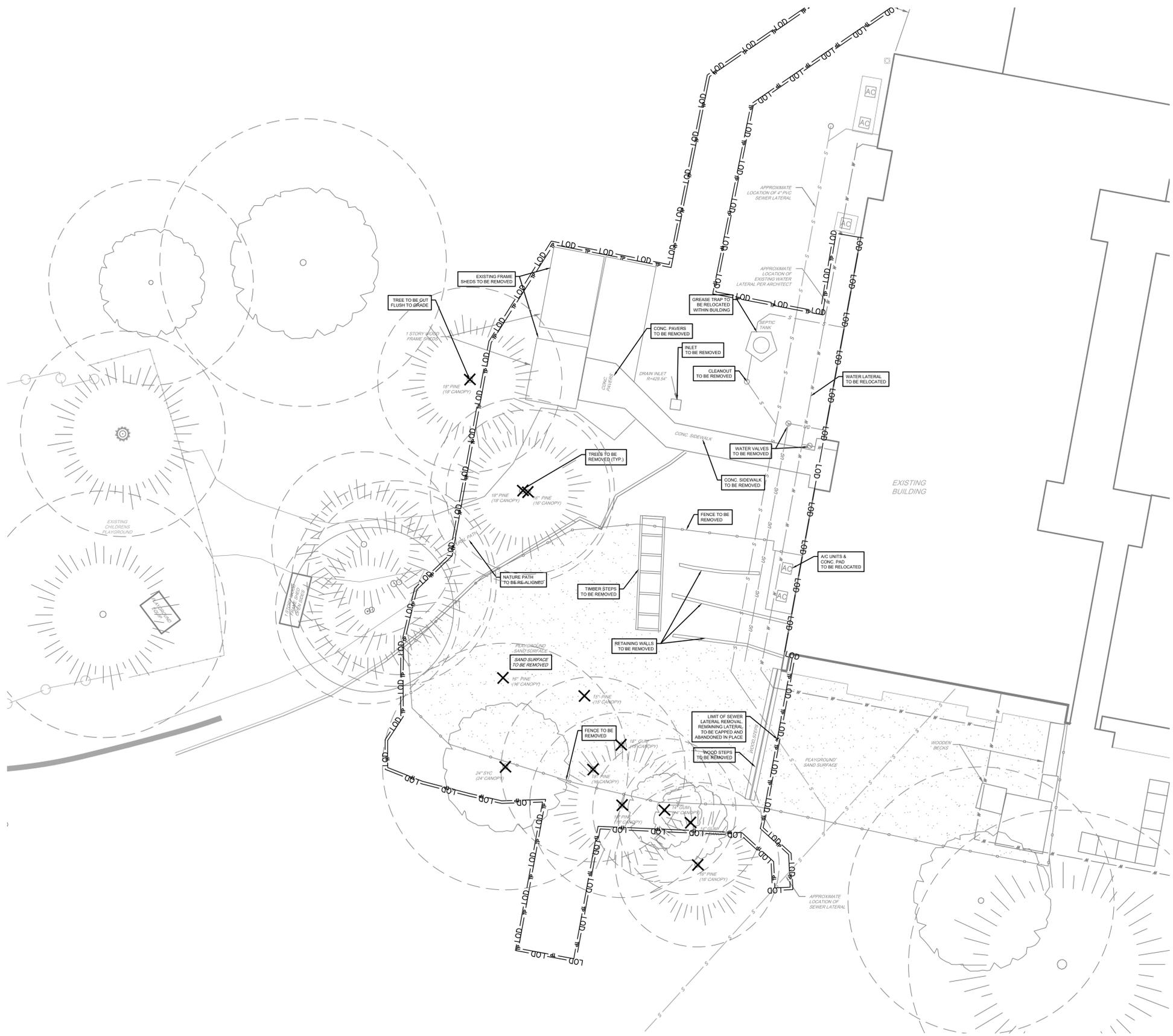
GENERAL CONSTRUCTION AND GRADING NOTES:		
1. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL AND LOCAL CODES AND OSHA STANDARDS ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.		
2. THE CONTRACTOR SHALL BE REQUIRED TO REVIEW AND ABIDE BY SPECIFICATIONS OF THE PLAN AND ALL SUPPORTING DOCUMENTS, PERMITS, AND REPORTS FOR THIS SITE, INCLUDING BUT NOT LIMITED TO: • EROSION AND SEDIMENTATION CONTROL PLAN • STORMWATER MANAGEMENT PLAN.		
3. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERROR THEY DISCOVER IN THE PLANS.		
4. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE OF THE WORK TO BE UNACCEPTABLE.		
5. UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE AND IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATIONS. THE CONTRACTOR WILL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION. THE CONTRACTOR SHOULD SEEK ASSISTANCE FROM ALL UTILITY COMPANIES TO LOCATE AND PROTECT THEIR FACILITIES. IF CONFLICTS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND DESIGN ENGINEER FOR INSTRUCTION BEFORE PROCEEDING WITH WORK.		
6. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE METHOD AND APPLICANT.		
7. TRAFFIC CONTROL METHODS, SUCH AS BARRICADES, SUFFICIENT LIGHTS, SIGNS, ETC., MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE CONSTRUCTION IN ACCORDANCE WITH CURRENT AND NCDOT STANDARDS.		
8. CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES, FENCING AND OTHER APPROPRIATE SAFETY ITEMS/MEASURES NECESSARY TO PROTECT THE PUBLIC FROM THE WORK AREA CONSTRUCTION ACTIVITIES.		
9. HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC.		
10. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS NEAR CONSTRUCTION. IN TIME OF RAIN OR MUD, ROADS SHALL BE ABLE TO CARRY A TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE, ETC., WITH A MINIMUM WIDTH OF 20 FEET. ACCESS TO BUILDINGS THAT HAVE SPRINKLER OR STANDPIPE SYSTEMS SHALL BE WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTOR. (NFPA 1141.3-1)		
11. BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONALLY BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREAS. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.		
12. BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX (6) INCHES IN COMPACTED FILL THICKNESS. A REPORT FROM A GEOTECHNICAL ENGINEER MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.		
13. THE CONTRACTOR WILL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO: A) REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, OR B) REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS AND HAVING SIGNIFICANT DETAIL ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.		
14. THE CONTRACTOR SHALL PROVIDE ANY AND ALL EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.		
15. SOIL TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. A GEOTECHNICAL ENGINEER IS REQUIRED TO INSPECT, TEST AND CERTIFY TO THE COMPACTION OF ALL LOAD BEARING FILLS. THE GEOTECHNICAL ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER AND TO THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR, SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.		
16. ALL PERMITS MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.		
17. ALL PAVEMENT MARKINGS AND REGULATORY SIGNS ON PRIVATE PROPERTY SHALL CONFORM TO CURRENT MUTCD STANDARDS.		
<b>ADA INSTRUCTIONS TO CONTRACTOR:</b> CONTRACTORS MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (HANDICAP) ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE CURRENT ADA STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS, REVISIONS OR UPDATES TO SMOOTH SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE(S), PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:		
1. PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.		
2. CURB RAMPS - SLOPE MUST NOT EXCEED 1:12 (8.3%) FOR A MAXIMUM OF SIX (6) FEET.		
3. LANDINGS - MUST BE PROVIDED AT EACH END OF RAMPS, MUST PROVIDE POSITIVE DRAINAGE, AND MUST NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.		
4. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - MUST PROVIDE A 36-INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS CANNOT REDUCE THIS MINIMUM WIDTH). THE SLOPE MUST BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF TRAVEL, AND MUST NOT EXCEED 1:50 (2.0%) IN THE OPPOSITE DIRECTION. A MAXIMUM RISE OF 2.5 FEET MUST BE PROVIDED. THE RAMP MUST HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE CROSSED SLOPE NO MORE THAN 1:50 IN ANY DIRECTION (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE.		
5. DOORWAYS - MUST HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2003 AND OTHER REFERENCED INCORPORATED BY CODE.)		
6. WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ADA COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, CONTRACTOR MUST VERIFY EXISTING ELEVATIONS SHOWN IN THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICES ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES, IN RARE CIRCUMSTANCES. PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER IN WRITING OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS. IN WRITING, BEFORE COMMENCEMENT OF WORK, CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ADA REQUIREMENTS.		
7. THE CONTRACTOR MUST VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF A NON-COMFORMANCE OBSERVES OR EXISTS, CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND REPLACE NON-COMFORMING CONCRETE.		
8. THE SITE SHALL BE FULLY COMPLIANT WITH THE NORTH CAROLINA ACCESSIBILITY CODES (ANSI 117.1-2009 AND CHAPTER 11 OF THE NCBIC) UNLESS AND EXCEPT IN AREAS WHERE AN APPROVED STATE ENGINEER OR SITE ENGINEER SURVEYOR ARCHITECT VERIFIES THAT SITE CONDITIONS EXIST WHERE THE TOPOGRAPHY OF THE SITE IS EXTREME AND ONLY ALTERNATE METHODS OF COMPLIANCE ARE POSSIBLE.		
9. ACCESSIBILITY REQUIREMENTS: THAT PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL PROVIDE THE MINIMUM REQUIRED HANDICAPPED PARKING SPACES AND DESIGN ALL HANDICAPPED PARKING SPACES, RAMPS, AND CROSSWALKS, AND ASSOCIATED INFRASTRUCTURE ACCORDING TO ADOPTED STANDARDS WITH DISABILITIES ACT STANDARDS, NORTH CAROLINA BUILDING CODE, AMERICAN NATIONAL STANDARDS INSTITUTE ANSI CODE, AND TOWN STANDARD 1. PARKING - NUMBER OF SPACES TO COMPLY WITH NCBIC 2012 SECTION 1108.1, PER 6 COMPLIANT SPACES OR PORTION THEREOF MUST BE VAN ACCESSIBLE. NO SLOPE TO EXCEED 2 PERCENT IN ANY DIRECTION. SIGNAGE PER NC REQUIREMENTS, MUTCD AND ICC A 117.2. CURB CUTS AND ACCESSIBLE ROUTES PER ICC A117.1 2009 ED. CROSS SLOPE LIMITED TO 2 PERCENT. CALL FOR INSPECTION BEFORE PLACEMENT OF CONCRETE. A SLOPE GREATER THAN 5 PERCENT REQUIRES CONSTRUCTION AS A RAMP.		
IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCEMENT OF CONSTRUCTION.		

GENERAL UTILITY NOTES:		
1. ALL UTILITIES AND SERVICES INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC, ETC. WITHIN THE LIMITS OF DISTURBANCE OR EXCAVATION, SANITARY SEWER AND LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE		



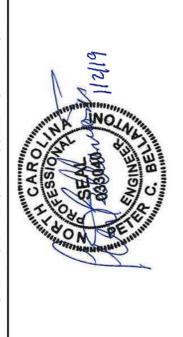


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**PRELIMINARY  
NOT FOR CONSTRUCTION**

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK



**ADMINISTRATIVE ZCP - FINAL PLANS**

106 PUREFOY ROAD  
CHAPEL HILL, NORTH CAROLINA 27514

**DEMOLITION PLAN**

COMMUNITY CHURCH OF CHAPEL HILL  
106 PUREFOY ROAD  
CHAPEL HILL, N.C. 27514

NO.	DATE	REVISIONS	BY

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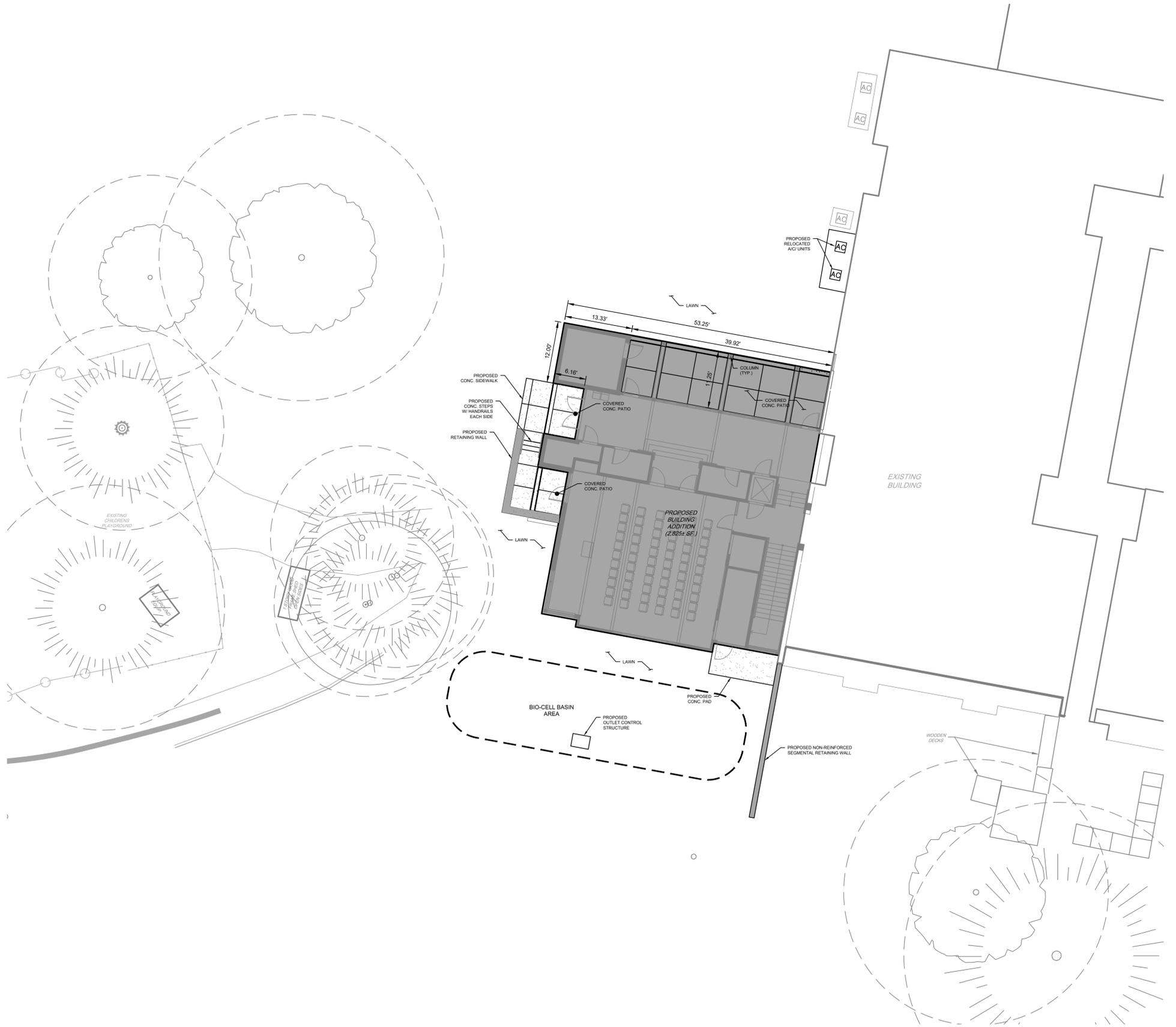
PROJECT	CMCH1701
DATE	2019-01-02
DRAWING SCALE	1" = 10'
DRAWN BY	CSB
APPROVED BY	PCB

**CS0501**  
SHEET 05 OF 13

**Pennoni**  
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**PENNONI ASSOCIATES, INC.**  
5430 Wade Park Boulevard, #106  
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**NOTE:**  
1. ONLY BUILDING MOUNTED LIGHTING IS BEING PROPOSED IN CONJUNCTION WITH THIS APPLICATION.



**PRELIMINARY  
NOT FOR CONSTRUCTION**

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**ADMINISTRATIVE ZCP - FINAL PLANS**

106 PUREFOY ROAD  
CHAPEL HILL, NORTH CAROLINA 27514

**DETAILED SITE PLAN**

COMMUNITY CHURCH OF CHAPEL HILL  
106 PUREFOY ROAD  
CHAPEL HILL, N.C. 27514

NO.	DATE	REVISIONS	BY

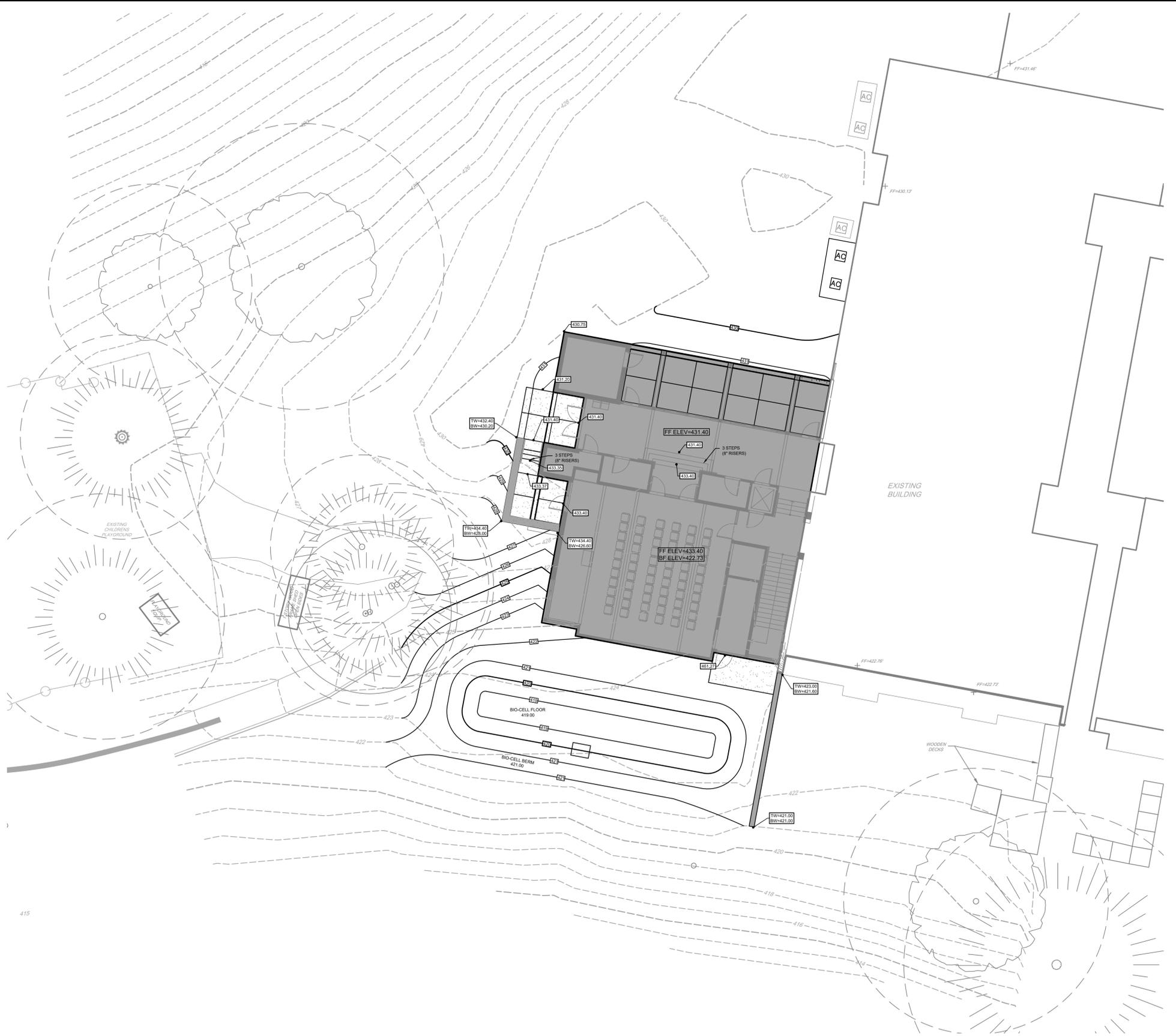
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PROJECT: CMCH1701  
DATE: 2019-01-02  
DRAWING SCALE: 1" = 10'  
DRAWN BY: CSB  
APPROVED BY: PCB

**CS1002**  
SHEET 07 OF 13

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**PRELIMINARY  
NOT FOR CONSTRUCTION**

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**ADMINISTRATIVE ZCP - FINAL PLANS**  
106 PUREFOY ROAD  
CHAPEL HILL, NORTH CAROLINA 27514

**DETAILED GRADING PLAN**

COMMUNITY CHURCH OF CHAPEL HILL  
106 PUREFOY ROAD  
CHAPEL HILL, N.C. 27514

NO.	DATE	REVISIONS	BY

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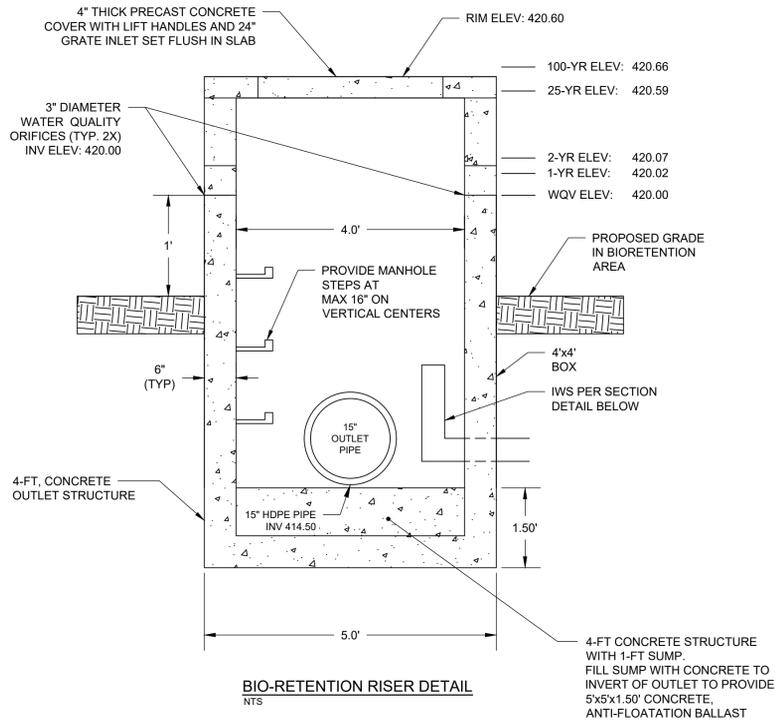
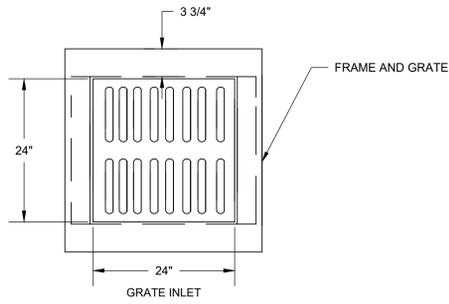
PROJECT: **CMCH1701**  
DATE: 2019-01-02  
DRAWING SCALE: 1" = 10'  
DRAWN BY: CSB  
APPROVED BY: PCB

**CS1501**  
SHEET 08 OF 13

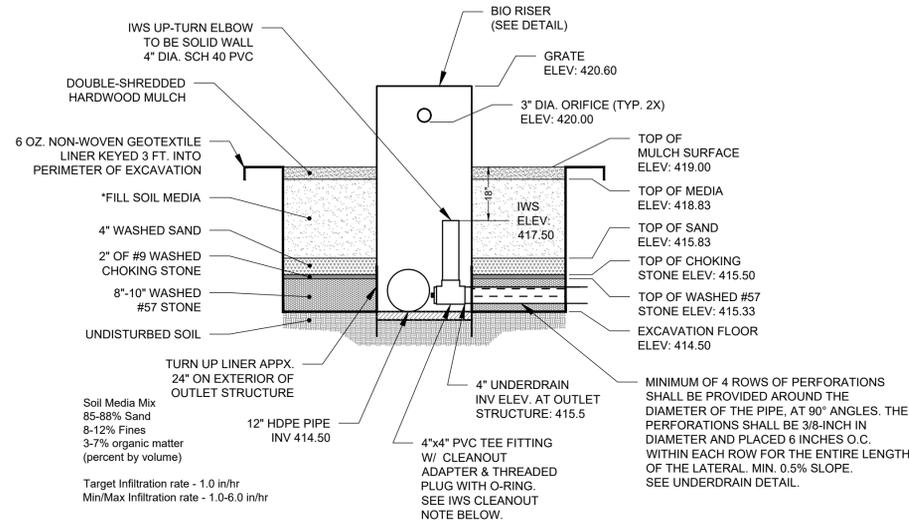
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BIO-RETENTION RISER DETAIL  
NTS

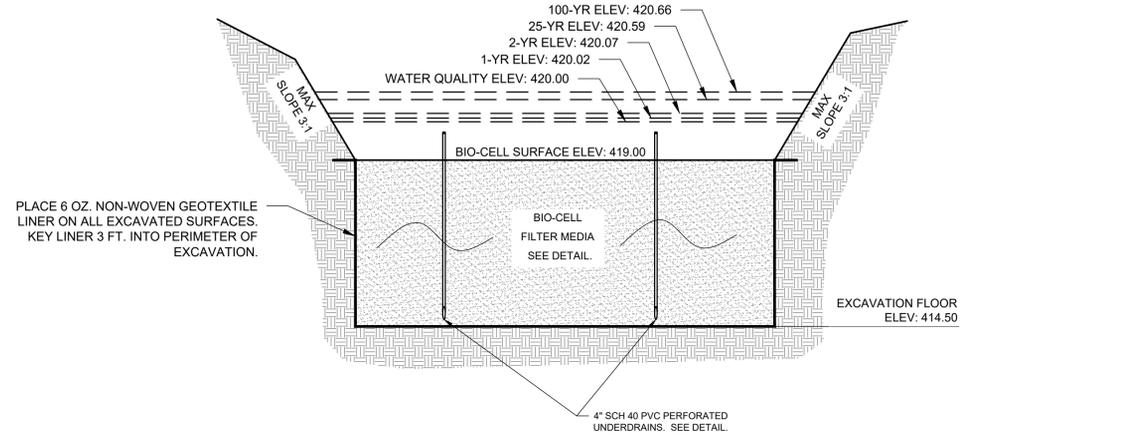


**LINER NOTE:**  
PLACE AND SECURE 6 OZ. NON-WOVEN GEOTEXTILE FABRIC ON ALL EXPOSED SURFACES OF THE EXCAVATION. THE LINER SHALL BE KEYPED INTO THE SOIL ALONG THE ENTIRE PERIMETER OF THE BIO-CELL AS SHOWN IN THE DETAIL ABOVE.

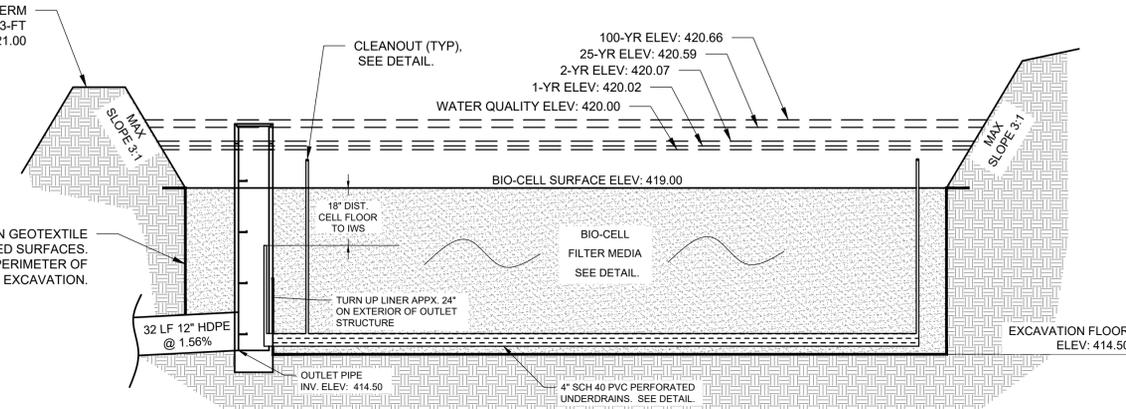
**IWS CLEANOUT NOTE:**  
ALLOW IWS CLEANOUT ADAPTER TO REMAIN OPEN DURING ALL STAGES OF CONSTRUCTION. DO NOT INSTALL THREADED PLUG WITH O-RING UNTIL DIRECTED TO DO SO BY PROJECT ENGINEER.

**WASHED #57 AND CHOKING STONE NOTE:**  
ANY STONE PLACED IN THE BIORETENTION CELL SHALL BE WASHED AND FREE OF SILT, FINES, AND ANY OTHER FINE DEBRIS. CONTACT PROJECT ENGINEER PRIOR TO INSTALLATION OF STONE AND UNDERDRAINS.

BIORETENTION TYPICAL SECTION  
NTS



PLACE 6 OZ. NON-WOVEN GEOTEXTILE LINER ON ALL EXCAVATED SURFACES. KEY LINER 3 FT. INTO PERIMETER OF EXCAVATION.



PLACE 6 OZ. NON-WOVEN GEOTEXTILE LINER ON ALL EXCAVATED SURFACES. KEY LINER 3 FT. INTO PERIMETER OF EXCAVATION.

BIORETENTION CELL CROSS SECTIONS  
NTS

**BIORETENTION INSTALLATION NOTE**

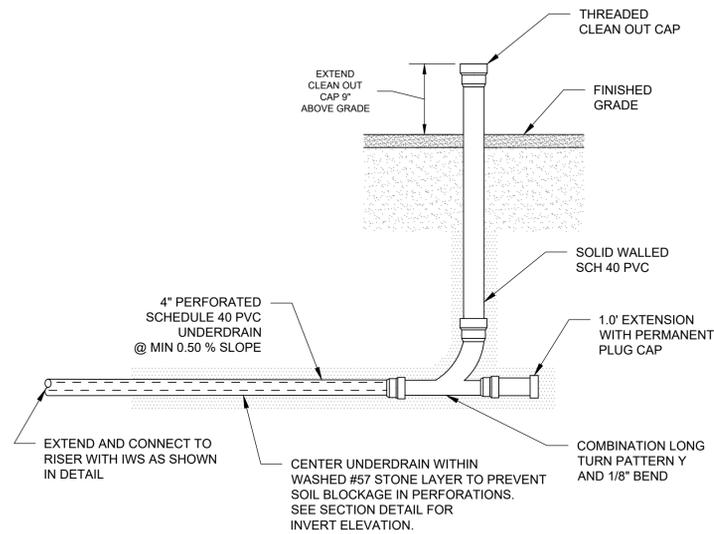
1. AN AS-BUILT ACCEPTABLE TO THE TOWN OF CHAPEL HILL SHALL BE PROVIDED FOR THIS BIORETENTION CELL. ONLY COVER ITEMS AND PROCEED TO THE NEXT STEP IN THE CONSTRUCTION SEQUENCE AFTER INSPECTION AND APPROVAL FROM THE OWNER'S CERTIFYING AGENT OR THE TOWN INSPECTOR.
2. BIORETENTION AREA TO BE COMPLETELY FREE OF SEDIMENT ACCUMULATED FROM TEMPORARY SEDIMENT TRAP PRIOR TO INSTALLATION OF BIORETENTION MEDIA. BIORETENTION FILTER MEDIA SHALL NOT BE INSTALLED UNTIL ENTIRE DRAINAGE AREA TO THE BIORETENTION AREA IS FULLY STABILIZED. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF MEDIA IF CONTAMINATION WITH SILT/FINES OCCURS. MINIMUM 85% STABILIZATION RATE PER SQUARE FOOTAGE OF DRAINAGE AREA. PLEASE REFER TO THE EROSION CONTROL PLAN AND EROSION CONTROL DETAILS FOR SEEDING AND STABILIZATION TIMEFRAMES.
3. MULCH ALL DISTURBED AREAS WITH MULCH AS REQUIRED.
4. SIDE SLOPES WITH VEGETATION SHALL NOT BE STEEPER THAN 3:1.

**BIORETENTION DESIGN REQUIREMENTS**

1. REQUIRED STORAGE VOLUME - 256 CF
2. MAXIMUM PONDING - 12"
3. PROVIDED STORAGE VOLUME - 402 CF
4. PROVIDED BOTTOM AREA - 234 SF
5. PROVIDED AREA AT TOP OF RISER - 765 SF

**BIORETENTION MEDIA NOTES**

1. SOIL MEDIA SHALL BE UNIFORMLY MIXED AND FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR MATERIALS GREATER THAN 2 INCHES IN ANY DIMENSION.
2. PLACE BIORETENTION FILTER MEDIA IN 12-18 INCH LIFTS WITHOUT COMPACTION. OVERFILL TO ABOUT 2 INCHES OF THE PROPOSED DESIGN ELEVATIONS TO ACCOUNT FOR SETTLEMENT.
3. MEDIA SHALL BE A HOMOGENOUS SOIL MIX OF 85-88 PERCENT BY VOLUME SAND (USDA SOIL TEXTURAL CLASSIFICATION ASTM C-33), 8 TO 12 PERCENT FINES (SILT AND CLAY), AND 3 TO 7 PERCENT ORGANIC MATTER (SUCH AS PEAT MOSS). ALL LOW PHOSPHORUS CONTENT IS DESIRED FOR THE SOIL MIX. MEDIA MATERIAL CAN BE SENT TO NC DEPARTMENT OF AGRICULTURE (NCDA) LABS TO BE ANALYZED OR CERTIFIED BY THE SUPPLIER. SOIL MEDIA TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO USE.
4. THE P-INDEX FOR BIORETENTION SOIL MEDIA SHALL FALL WITHIN A RANGE OF 10 AND 30, REGARDLESS OF THE TARGET POLLUTANT.
5. THE MEDIA SHALL BE TESTED TO DETERMINE AN ACTUAL DRAINAGE RATE AFTER PLACEMENT WITH THE RESULTS PROVIDED TO THE CERTIFYING ENGINEER. THE PERMEABILITY SHALL FALL BETWEEN 1 AND 6 INCHES PER HOUR. (NOTE: 1 INCH PER HOUR IS TARGET).



TYPICAL UNDERDRAIN CLEANOUT  
NTS

1. A MINIMUM OF 4 ROWS OF PERFORATIONS SHALL BE PROVIDED AROUND THE DIAMETER OF THE PIPE, AT 90° ANGLES. THE PERFORATIONS SHALL BE 3/8-INCH IN DIAMETER AND PLACED 6 INCHES O.C. WITHIN EACH ROW FOR THE ENTIRE LENGTH OF THE LATERAL.

**PRELIMINARY  
NOT FOR CONSTRUCTION**



**ADMINISTRATIVE ZCP - FINAL PLANS**  
106 PUREFOY ROAD  
CHAPEL HILL, NORTH CAROLINA 27514

**BIORETENTION BASIN DETAILS**

COMMUNITY CHURCH OF CHAPEL HILL  
106 PUREFOY ROAD  
CHAPEL HILL, N. C. 27514

NO.	DATE	REVISIONS	BY

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PROJECT	CMCH1701
DATE	2019-01-02
DRAWING SCALE	N.T.S.
DRAWN BY	CSB
APPROVED BY	PCB

**CS6002**  
SHEET 11 OF 13



