SECU FAMILY HOUSE EXPANSION

123 OLD MASON FARM ROAD, CHAPEL HILL, NC 27517

SPECIAL USE PERMIT APPLICATION

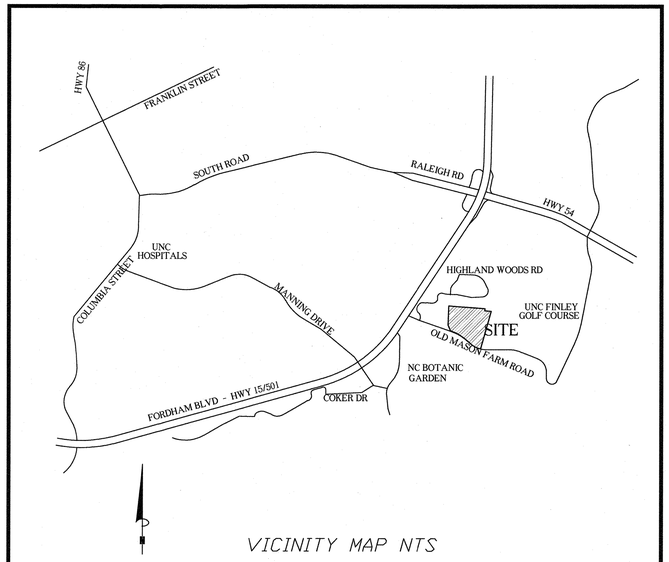
PROJECT DATA

EXISTING USE	RESIDENTIAL SUPPORT FACILTIY
PROPOSED USE	RESIDENTIAL SUPPORT FACILITY
USE GROUP	B
EXISTING LAND AREA	5.83 ACRES
PROPOSED LAND AREA	9.43 ACRES
GROSS LAND AREA = 410,738 SF X 1.10 = 451,812 SF	10.37 ACRES
EXISTING ZONING	OI-2
PROPOSED ZONING	OI-2
PIN	9788-54-3697
FAR (OI-2)	.264
MAXIMUM BUILDING SIZE	108,435 SF
EXISTING BUILDING SIZE	34,336 SF
PROPOSED BUILDING SIZE	26,135 SF ADDITIONAL SPACE 60,471 SF TOTAL AT END OF PROJECT
REQUIRED PARKING FOR THE NEW SPACE	MINIMUM 1 PER 500 BUILT SF = 52 SPACES MAXIMUM 1 PER 350 BUILT SF = 74 SPACES
EXISTING PARKING	59 SPACES INCLUDING 4 ADA SPACES
PROPOSED PARKING	52 PROPOSED NEW SPACES INCLUDING 8 ADA AND 44 STANDARD SPACES
TOTAL PARKING	111 SPACES INCLUDING 10 VAN ACCESSIBLE ADA SPACES, 2 STANDARD ADA SPACES, AND 99 STANDARD SPACES
REQUIRED BICYCLE PARKING FOR THE NEW SPACE:	4 + 2 PER 5,000 SF =14 SPACES TOTAL
BICYCLE PARKING FROM ORIGINAL SUP:	6 CLASS 1 SPACES
EXISTING BICYCLE PARKING:	6 CLASS 1 SPACES
PROPOSED BICYCLE PARKING	12 SPACES TOTAL 6 CLASS 1 6 CLASS 2 (3 LOOPS)

STORMWATER SUMMARY

PROJECT AREA	410,738 SF
DISTURBED AREA	108,331.38 SF
EXISTING IMPERVIOUS	78,309 SF
PROPOSED IMPERVIOUS	116,914 SF

VICINITY MAP



VICINITY MAP NTS

LIST OF SHEETS

C0	COVER SHEET
C001	AREA MAP
C100	EXISTING CONDITIONS
C101	DEMOLITION AND TREE PROTECTION PLAN
C102	CONSTRUCTION MANAGEMENT PLAN
C103	SLOPE ANALYSIS PLAN
C200	SITE PLAN
C201	PEDESTRIAN CONNECTIVITY PLAN
C300	GRADING AND STORMWATER PLAN
C400	NOT USED (reserved for Erosion Control Plan)
C500	UTILITY PLAN
C501	UTILITY - WATER
C502	UTILITY - SANITARY SEWER
C503	WATER PLAN AND PROFILE
C600	NOT USED (reserved for Lighting Plan)
C700	SITE DETAILS
C701	SITE DETAILS
L100	LANDSCAPE PLAN
L101	TREE COVERAGE PLAN
A1	OVERALL BUILDING ELEVATIONS

PROJECT NOTES

GENERAL NOTES:

CONSTRUCTION WASTE:

1. BY ORANGE COUNTY ORDINANCE, CLEAN WOOD WASTE, SCRAP METAL AND CORRUGATED CARDBOARD, ALL PRESENT IN CONSTRUCTION WASTE, MUST BE RECYCLED.
2. BY ORANGE COUNTY ORDINANCE, ALL HAULERS OF CONSTRUCTION WASTE MUST BE PROPERLY LICENSED.
3. PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY ON THE SITE THE APPLICANT WILL HOLD A PRE-DEMOLITION/PRE-CONSTRUCTION CONFERENCE WITH THE COUNTY'S SOLID WASTE STAFF. THIS MAY BE THE SAME MEETING HELD WITH OTHER DEVELOPMENT OFFICIALS.
4. BECAUSE THERE MAY BE REGULATED RECYCLABLE MATERIALS (METAL, WOOD, CARDBOARD) IN SOME OF THE NEW CONSTRUCTION OF THE PROPOSED FACILITY, THE APPLICANT WILL NEED TO CONTACT SOLID WASTE MANAGEMENT STAFF TO CONDUCT A PRE-DEMOLITION ASSESSMENT BEFORE BEGINNING WORK. IN ADDITION, THE APPLICANT WILL BE REQUIRED TO OBTAIN A REGULATED RECYCLABLE MATERIALS PERMIT FROM THE TOWN OF CHAPEL HILL.

SPECIAL CONDITIONS

1. ALL TREE PROTECTION SHOWN ON THE FINAL PLANS MUST BE INSTALLED AND INSPECTED PRIOR TO ANY DEMOLITION OR SITE WORK.

SPECIAL CONDITIONS – NC DOT:

1. PRIOR TO PERFORMING WORK IN THE NCDOT R/W THE APPLICANT SHALL OBTAIN THE FOLLOWING:
   - APPROVED NCDOT THREE-PARTY ENCROACHMENT AGREEMENT WITH TOWN OF CHAPEL HILL FOR PROPOSED SIDEWALK, CURB RAMPS, BUS STOP PAD, AND APPURTENANCES
   - APPROVED NCDOT THREE-PARTY ENCROACHMENT AGREEMENT WITH OWASA FOR PROPOSED WATERLINE CONNECTION

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NC BOARD OF EXAMINERS FOR ENGINEERS & SURVEYORS LICENSE NO. C-1209

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Project:

SECU Family House Expansion

123 Old Mason Farm Rd.
Chapel Hill, NC 27517

PIN:
9788543697

NORTH CAROLINA REGISTERED ARCHITECT 1302 WENDY L. RAMSDEN
8-14-2017

NOT ISSUED FOR CONSTRUCTION

Job Number: 1122b

Drawn	WLR, MTC
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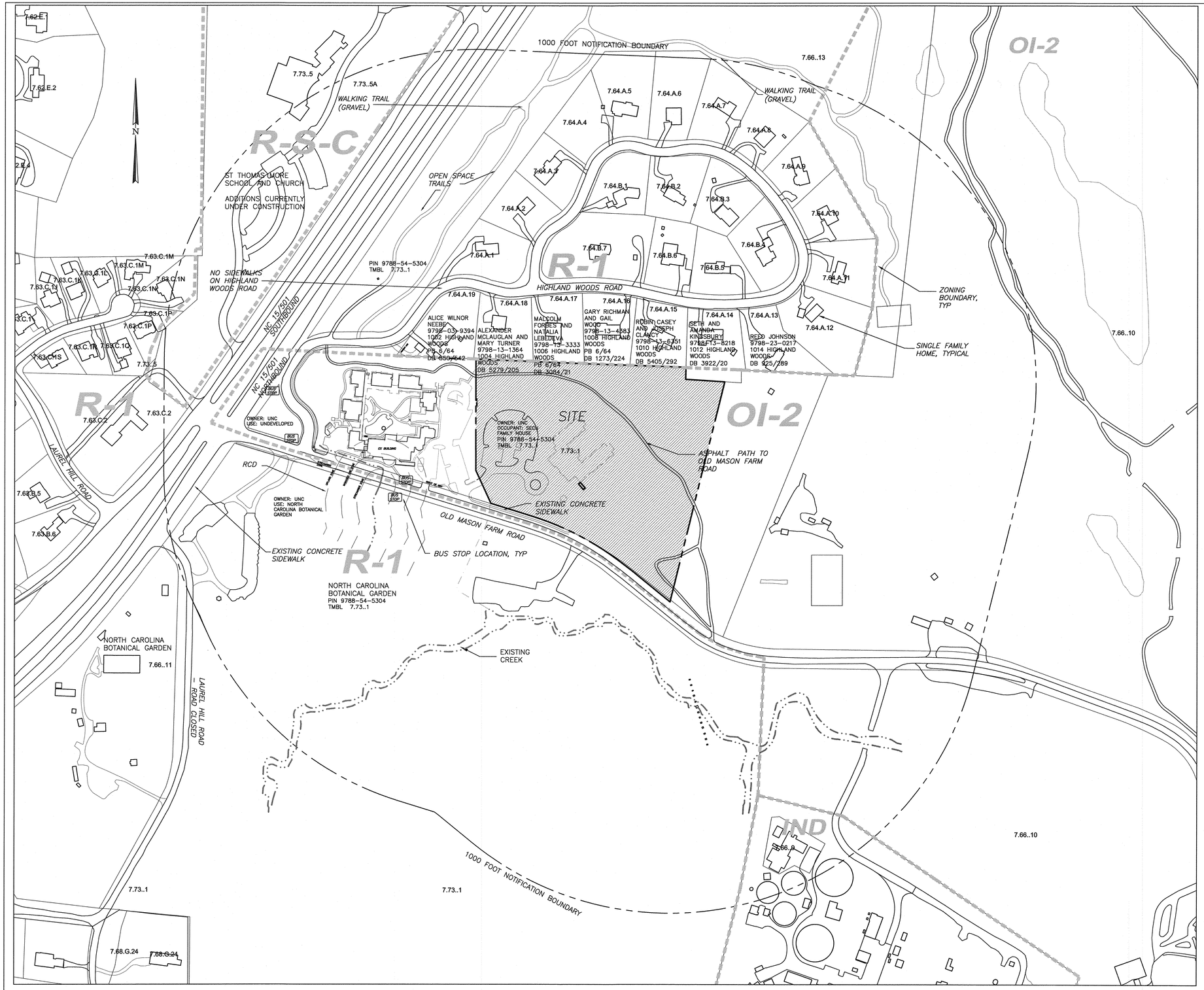
SPECIAL USE PERMIT

Sheet Title:

COVER - PROJECT INFORMATION

Sheet Number

C0



1 C001 AREA MAP

1" = 150'

0 150 300

LEGEND

	ZONING AREA DELINEATION
R-1	LAND USE ZONE
7.73..1	TAX MAP NUMBER
	ROAD RIGHT OF WAY
	PROPERTY LINE

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Sheet Title:

AREA MAP

Sheet Number

C001

1 C100 EXISTING CONDITIONS PLAN

1" = 40'

0 20 40 80

LEGEND

000	CONTOUR
S	EXISTING STORM LINE
	TREE LINE

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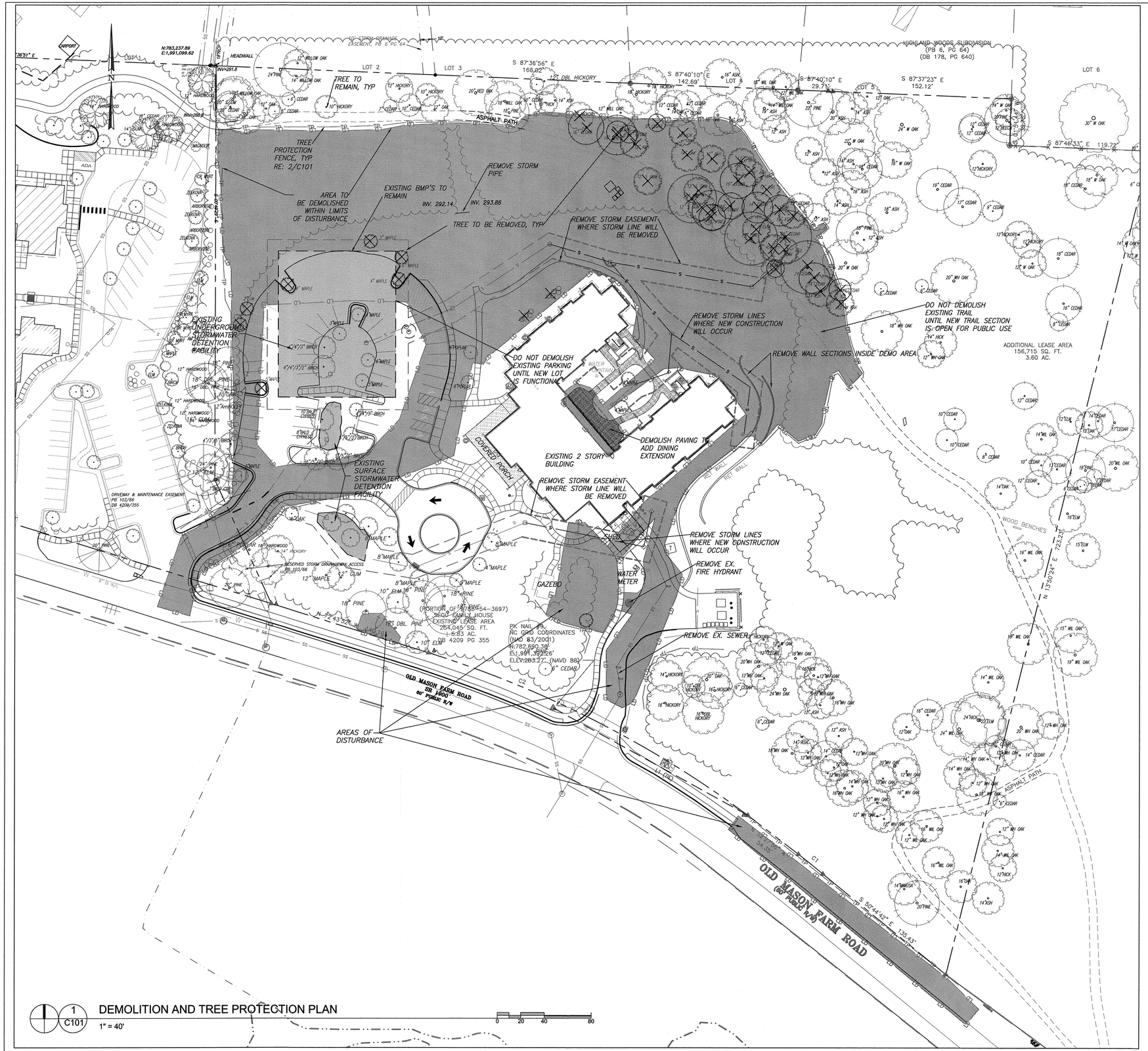
EXISTING CONDITIONS

Sheet Number

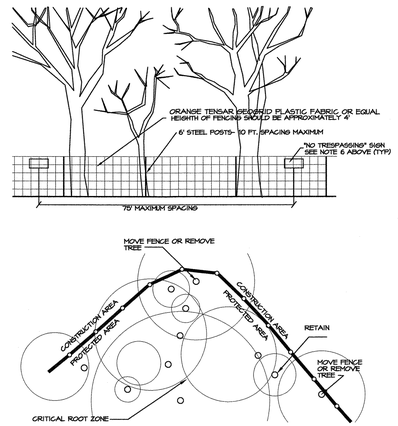
C100



1 C101 DEMOLITION AND TREE PROTECTION PLAN

1" = 40'

0 20 40 80



NOTES:

1. MOVE FENCE OR REMOVE TREE IF MORE THAN 20% OF A TREE'S CRITICAL ROOT AREA IS UNPROTECTED.
2. ROOT PRUNE TREES TO REMAIN WHERE CONSTRUCTIONACTIVITIES WILL SEVER ROOTS.
3. ANY TREE ROOTS EXPOSED BY CONSTRUCTION SHALL BE SEVERED CLEANLY WITH A PRUNING TOOL.
4. DO NOT DISPOSE OF ANY CHEMICALS OR REMOVE SOIL OUTSIDE THE LIMITS OF WORK.
5. WHEN INSTALLING NEW LANDSCAPE PLANTS, DO NOT DRIVE EQUIPMENT UPON OR DISTURB THE SOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES.
6. SIGNAGE IN BOTH ENGLISH AND SPANISH MUST BE PLACED ON TREE PROTECTION FENCING WITH A MINIMUM SPACING OF 75' O.C. SIGNAGE SHOULD READ "TREE PROTECTION AREA - NO TRESPASSING WITHIN THE FENCE", AND "PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ARBOLES".

2 C101 TREE PROTECTION FENCE

NTS

1. ENSURE ALL EROSION CONTROL MEASURES ARE IN PLACE AND IN WORKING ORDER PRIOR TO THE START OF ANY DEMOLITION AND CONSTRUCTION.
2. SEE SITE PLAN SHEET C200 FOR LAYOUT DIMENSIONS OF EXTENT OF DEMOLISHED AREAS. PAVED AREAS NOT INDICATED TO BE DEMOLISHED, ARE TO REMAIN. ALL CONCRETE SAW CUTS ARE TO BE CLEAN, STRAIGHT AND NEAT.
3. UTILITIES: SEE UTILITY PLANS. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES FOR LOCATION, REMOVAL AND RELOCATION OF ANY UTILITIES. CONTRACTOR RESPONSIBLE FOR DETERMINING EXTENT AND LOCATION OF UTILITIES. THIS MAY INCLUDE CONTACTING "NO-CUTS" TO HELP LOCATE SOME UTILITIES.
4. CONTRACTOR TO ADJUST ALL MANHOLES, VALVES, JUNCTION BOXES, CATCH BASINS, CLEAN-OUTS, ETC., AS NECESSARY TO ACCOMMODATE NEW LAYOUT AND GRADES.
5. CONTRACTOR RESPONSIBLE FOR OBTAINING ANY PERMITS FOR WORK IN THE NCDOT AND TOWN OF CHAPEL HILL RIGHTS OF WAY. ANY DAMAGED INFRASTRUCTURE IN THE RIGHT OF WAY CAUSED BY CONSTRUCTION ACTIVITIES MUST BE REPAIRED TO NC DOT STANDARDS. THIS INCLUDES, BUT IS NOT LIMITED TO UTILITIES, SIDEWALKS, CURB AND GUTTER, ASPHALT.
6. CONTRACTOR RESPONSIBLE FOR REMOVING EVERYTHING WITHIN THE CLEARING LIMITS AND OFF-SITE WORK ZONE INCLUDING TREES, STUMPS, TRASH, FENCING, OR BUILDING MATERIALS.
7. CONTRACTOR TO USE CAUTION WORKING AROUND AND NEAR EXISTING STORM, WATER AND SEWER. CONTRACTOR RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES.
8. ALL PAVEMENT PATCHING IN OLD MASON FARM ROAD SHALL BE PERFORMED PER NC DOT SPECIFICATIONS AND STANDARDS.

3 C101 DEMOLITION NOTES

LEGEND

LD	LIMITS OF DISTURBANCE
TP	STANDARD TREE PROTECTION FENCE
SS	EXISTING SANITARY SEWER LINE
	TREE LINE

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NORTH CAROLINA PROFESSIONAL SEAL 1302 WENDI L. RAMSDEN
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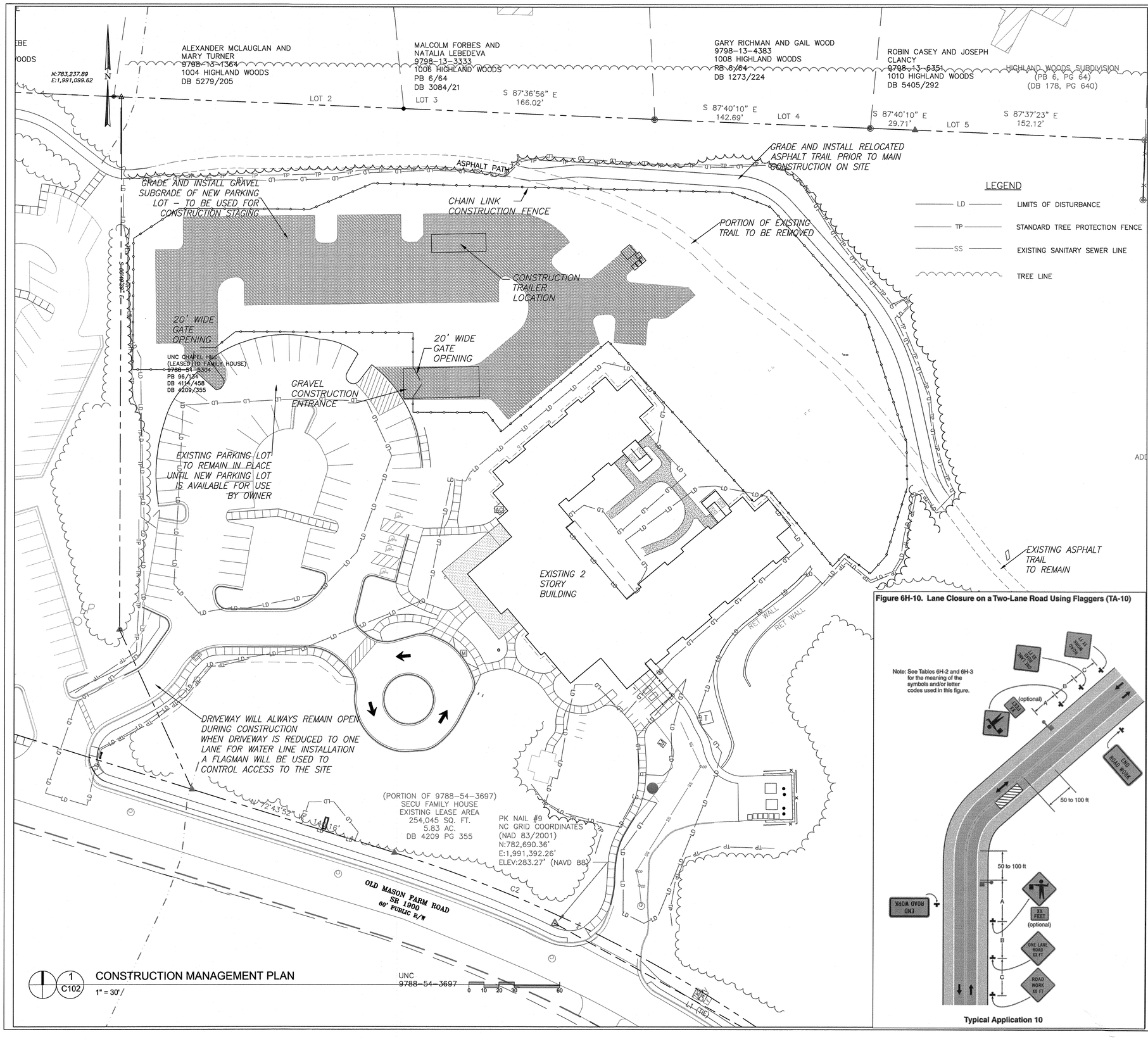
SPECIAL USE PERMIT

Sheet Title:

DEMOLITION AND TREE PROTECTION PLAN

Sheet Number

C101



1 C102 CONSTRUCTION MANAGEMENT PLAN
1" = 30'

Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)

Typical Application 10

CONSTRUCTION STAGING NOTES

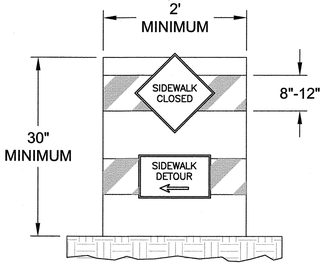
1. *ASPHALT TRAIL IS TO BE INSTALLED PRIOR TO REMOVAL OF ASPHALT PATH TO ALLOW FOR CONTINUAL USE OF THE TRAIL.*
2. *SHRUBS BETWEEN THE ASPHALT TRAIL AND THE NORTH PROPERTY LINE ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF THE NEW BUILDING.*
3. *EXISTING PARKING IS TO BE LEFT INTACT UNTIL NEW PARKING LOT IS AVAILABLE FOR USE.*
4. *CONTRACTOR IS TO ARRANGE FOR CONSTRUCTION PARKING WITHIN THE STAGING AREA OR OFF SITE. NO CONSTRUCTION PARKING WILL BE ALLOWED IN THE EXISTING PARKING LOT, IN THE RONALD MCDONALD HOUSE PARKING LOT, OR ON ADJACENT RESIDENTIAL STREETS.*
5. *NO CONSTRUCTION RELATED LIGHTS OR CONSTRUCTION TRAILER LIGHTS ARE TO REMAIN ON BETWEEN THE CONSTRUCTION TRAILER AND THE NORTHERN PROPERTY LINE AFTER 8 PM.*
6. *CONTRACTOR SHALL COORDINATE WITH SOLID WASTE HAULER TO MAINTAIN SOLID WASTE COLLECTION DURING CONSTRUCTION OF PROJECT.*

FIRE PROTECTION NOTES

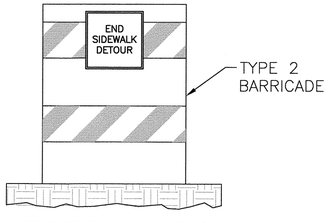
1. *CONTRACTOR SHALL MAINTAIN A FIRE WATCH DURING THE CONSTRUCTION OR DEMOLITION OF "HOT WORK" THAT MAY SUBJECT MATERIALS TO SPONTANEOUS COMBUSTION. THE FIRE WATCH SHALL CONSIST OF AT LEAST ONE PERSON WITH A MEANS OF COMMUNICATING AN ALARM TO 911, SHALL HAVE A WRITTEN ADDRESS POSTED IN A CONSPICUOUS LOCATION, AND SHALL MAINTAIN CONSTANT PATROLS.*
2. *ALL CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH THE CURRENT EDITION OF CHAPTER 14 OF THE NC FPC (FIRE CODE).*
3. *ANY PERMANENT OR TEMPORARY GATES ACROSS FIRE ACCESS DRIVES SHALL BE A MINIMUM WIDTH OF 20', EITHER SWINGING OR SLIDING TYPE, HAVE AN EMERGENCY MEANS OF OPERATION, AND SHALL BE OPERABLE BY EITHER FORCIBLE ENTRY OR KEYED, CAPABLE OF BEING OPERATED BY ONE PERSON, AND SHALL BE INSTALLED AND MAINTAINED ACCORDING TO UL 325 AND ASTM F 2200 NC FPC 2012.*

TRAFFIC/PEDESTRIAN CONTROL NOTES

1. SIGNS SHOWN ON THIS PLAN ARE REQUIRED DURING THE CONSTRUCTION OF THIS PROJECT.
2. CONSTRUCTION WILL REQUIRE TEMPORARY LANE CLOSURES ON OLD MASON FARM ROAD. DETAIL IS PROVIDED FOR THESE TEMPORARY LANE CLOSURES, THIS SHEET.
3. NOTIFY TOWN OF CHAPEL HILL ENGINEERING DEPARTMENT AT 919-968-2833, MINIMUM 72 HOUR NOTICE IS REQUIRED.
4. ALL WORK ZONE SIGNAGE SHALL COMPLY WITH APPLICABLE M.U.T.C.D. STANDARDS AND DETAILS.
5. TEMPORARY LANE CLOSURES ARE ONLY ALLOWED DURING DAYLIGHT HOURS.
6. PRIOR TO ANY TRAFFIC LANE CLOSURES, IT WILL BE NECESSARY TO CONTACT ERNIE ROGERS AT 919-968-2833, OF THE CHAPEL HILL ENGINEERING DIVISION, AT LEAST 5 WORKING DAYS BEFORE THE PROPOSED WORK TO APPLY FOR A LANE CLOSURE PERMIT.
7. SIGNS AND TEMPORARY BARRICADES AS SHOWN BELOW WILL BE PLACED TO DIRECT PEDESTRIANS WHEN SIDEWALKS ARE IN THE CONSTRUCTION AREAS.



START SIDEWALK DETOUR



END SIDEWALK DETOUR

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 1302 WENDY L. RAMSDEN
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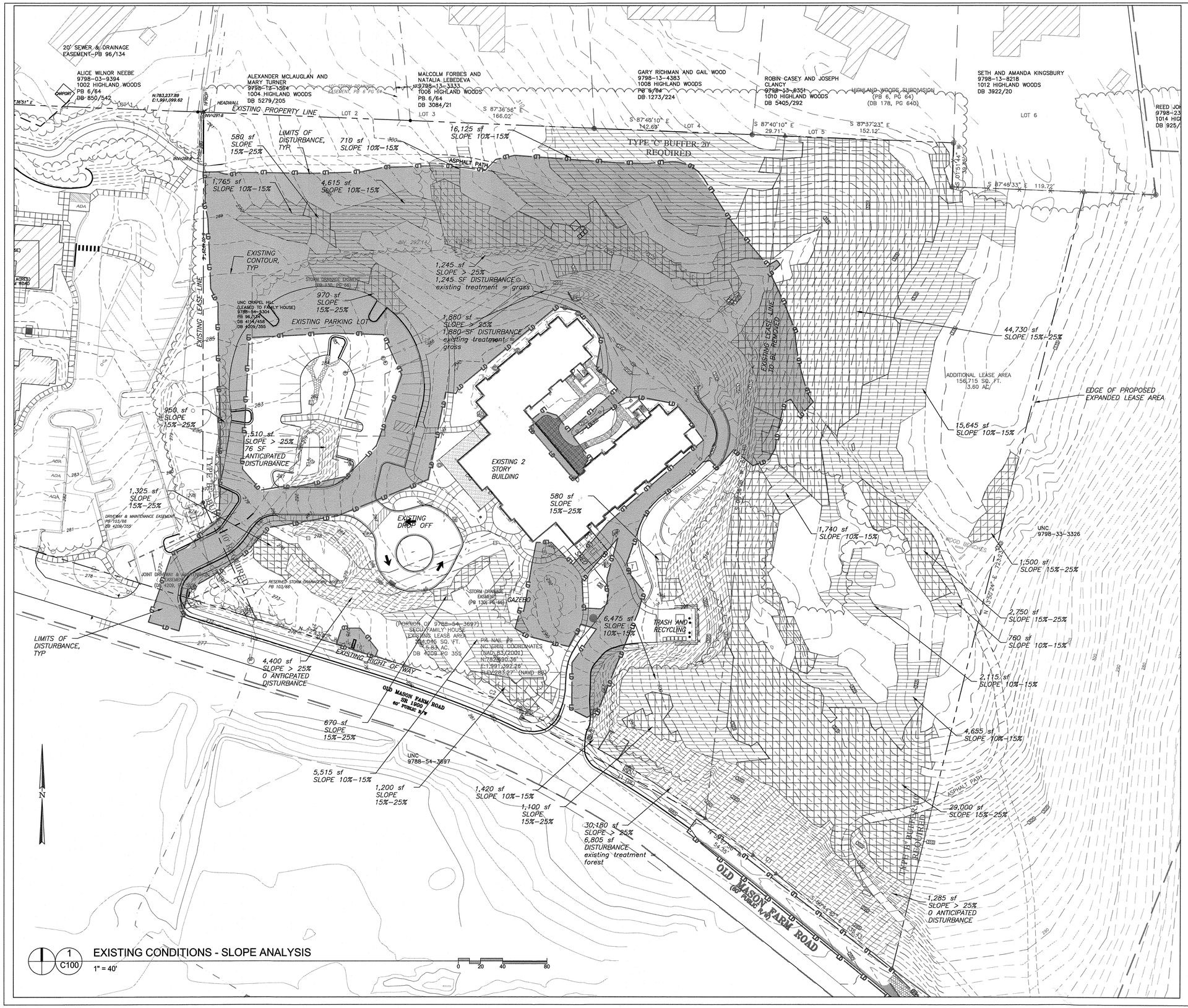
Sheet Title:

CONSTRUCTION MANAGEMENT PLAN

Sheet Number

C102



1 C100 EXISTING CONDITIONS - SLOPE ANALYSIS

1" = 40'

0 20 40 80

NOTE: ANY CUT OR FILL STEEPER THAN 3:1 SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER.

LEGEND

000	CONTOUR
S	EXISTING STORM LINE
	TREE LINE
	SLOPES > 25% 40,500 SF PROPOSED 10,001 SF DISTURBANCE (24.7%) OF SLOPES >25%
	SLOPES 15%-25% 84,775 SF PROPOSED 15,973 SF DISTURBANCE (18.8%) OF SLOPES 15%-25%
	SLOPES 10%-15% 61,540 SF PROPOSED 15,937 SF DISTURBANCE (25.8%) OF SLOPES 10%-15%

AREA NOT HATCHED REPRESENTS SLOPES <10% 223,923 SF

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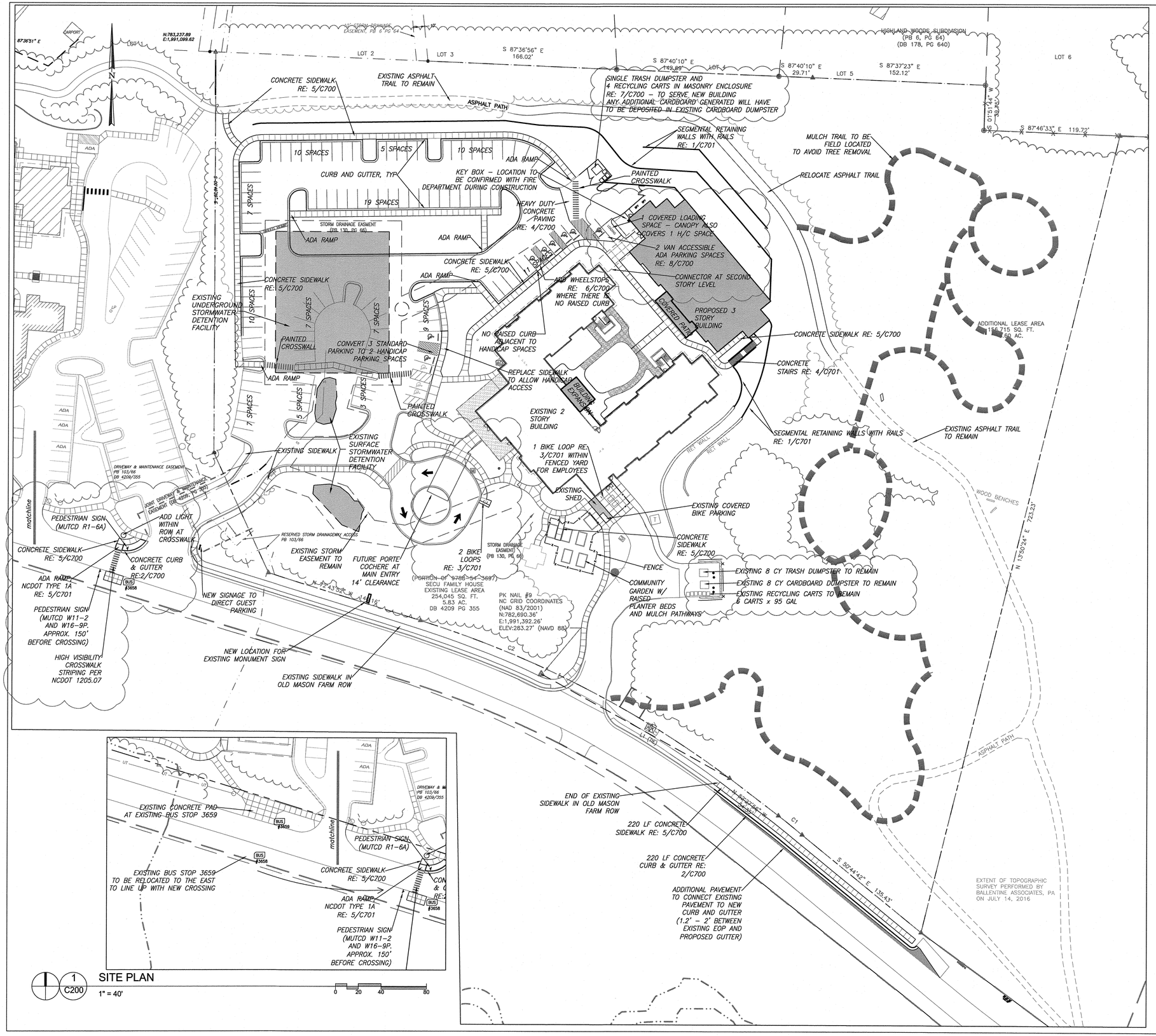
SLOPE ANALYSIS PLAN

Sheet Number

C103



1 C200 SITE PLAN

1" = 40'

LAYOUT NOTES

1. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
2. DIMENSIONS TO BUILDING WALL ARE TO FACE OF WALL AT FINISH GRADE. ALL DIMENSIONS TO CURB ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. PAVEMENT STRIPING ON–SITE SHALL BE WHITE TRAFFIC GRADE PAINT MANUFACTURED EXPRESSLY FOR MARKING PAVEMENTS.
4. GRADE PAINT MANUFACTURED EXPRESSLY FOR MARKING PAVEMENTS.
5. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
6. HANDICAPPED PARKING SPACES SHALL BE SIGNED WITH TYPE R7–8 OR R7–8a RESERVED PARKING SIGN, AND WITH R7–8d MAXIMUM FINE SIGN PER GS 20–37.6 OF THE NORTH CAROLINA STATE HANDICAP CODE.
7. CONTACT TOWN OF CHAPEL HILL ENGINEERING INSPECTOR AND NC DOT FOR CONSULTATION AND PERMITS PRIOR TO ANY WORK IN THE ROAD RIGHT–OF–WAY.
8. ALL HANDICAP RAMPS SHALL BE BUILT TO TOWN OF CHAPEL HILL STANDARD.
9. PARKING – 1 ACCESSIBLE SPACE REQUIRED PER 25 SPACES, AND 1 SPACE PER 6 COMPLIANT ACCESSIBLE SPACES SHALL BE VAN ACCESSIBLE. NO SLOPES EXCEEDING 1.8% IN ANY DIRECTION. SIGNAGE PER NC REQUIREMENTS AND ICC A 117.1, 2009 ED.
10. CURB CUTS AND ACCESSIBLE ROUTES PER NC ICC A 117.1, 2009 ED. CROSS SLOPE LIMITED TO 1.8%, CALL FOR INSPECTION BEFORE PLACEMENT OF CONCRETE.
11. ON SITE SIDEWALKS HAVE BEEN DESIGNED TO HAVE SLOPES UNDER 4.8%. IF CONTRACTOR DETERMINES ANY SECTION AS >5%, CONTACT DESIGN ENGINEER PRIOR TO INSTALLATION.
12. PARKING LAYOUT IS 90° UNLESS OTHERWISE INDICATED.

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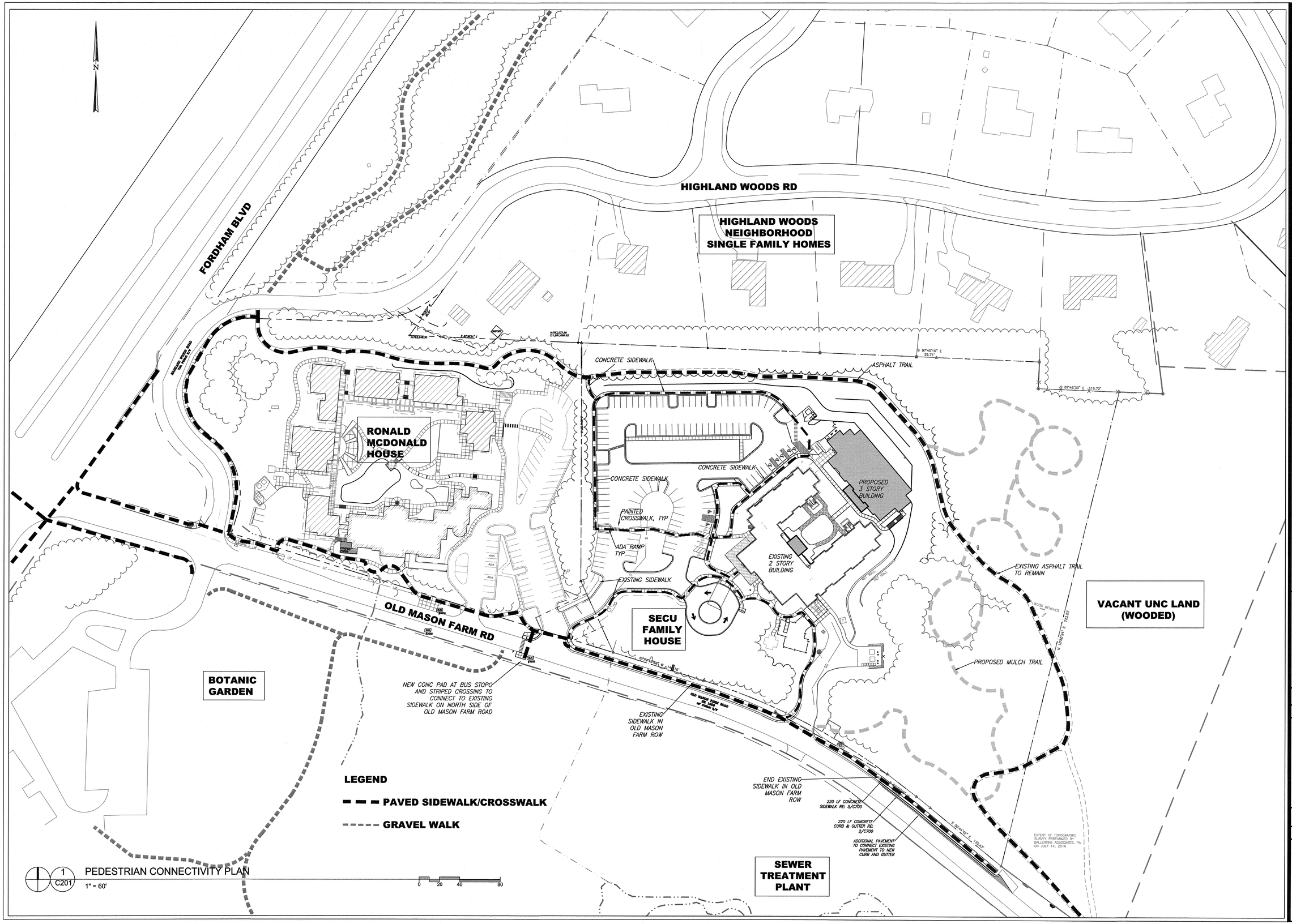
Sheet Title:

SITE PLAN

Sheet Number

C200



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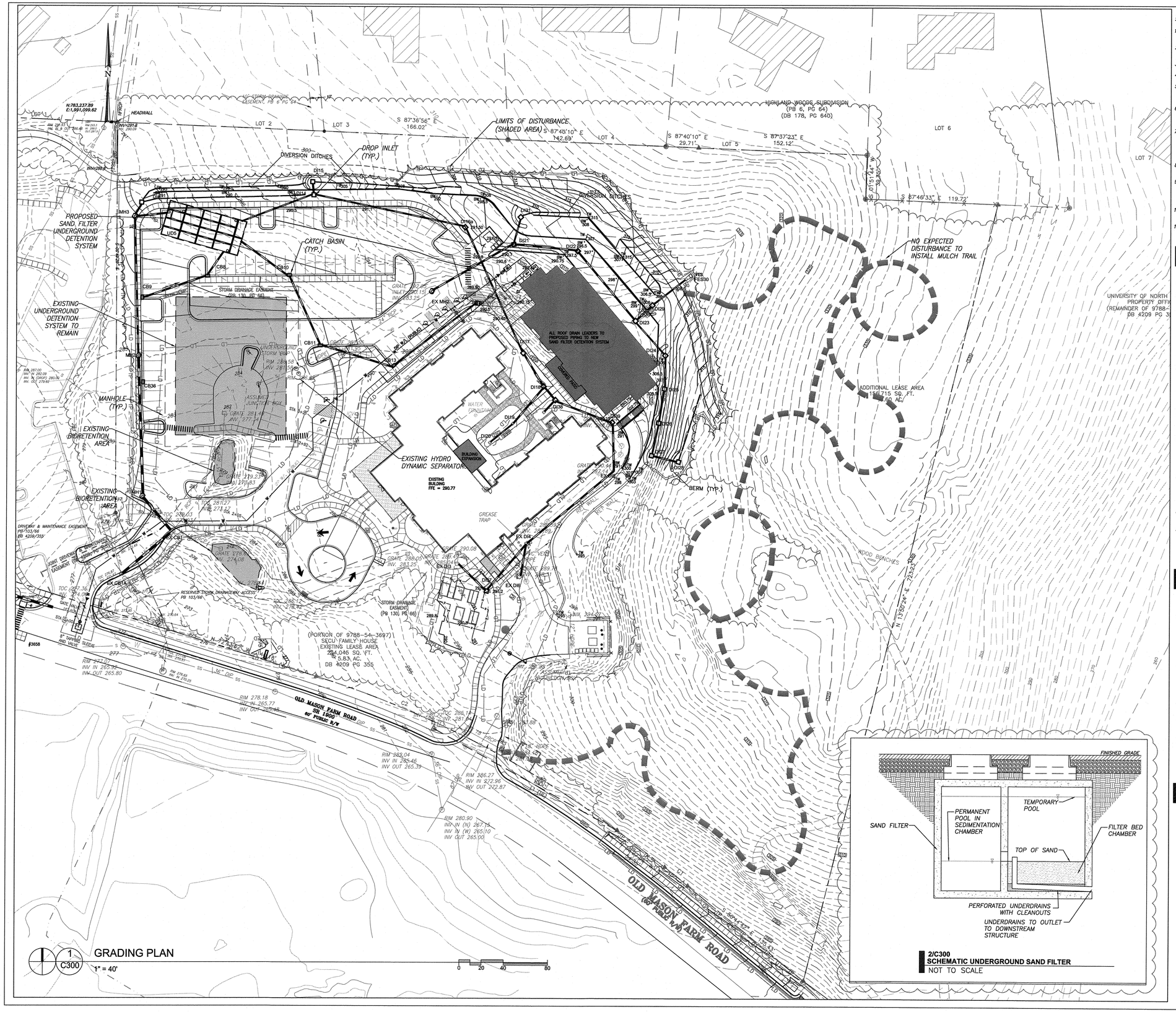
SPECIAL USE PERMIT

Sheet Title:

PEDESTRIAN CONNECTIVITY PLAN

Sheet Number

C201



2/C300
SCHEMATIC UNDERGROUND SAND FILTER
NOT TO SCALE

STORM DRAINAGE NOTES:

1. *ALL STORM DRAINAGE PIPES SHOWN ARE TO BE CLASS III REINFORCED CONCRETE (RCP) UNLESS NOTED OTHERWISE.*
2. *ALL STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF CHAPEL HILL STANDARDS.*
3. *ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH.*
4. *ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH INSIDE WALL.*
5. *ALL PIPE JOINTS SHALL BE MADE WITH PREFORMED JOINT SEALER, WHICH CONFORMS TO AASHTO SPECIFICATION M-198 FOR TYPE B FLEXIBLE PLASTIC GASKETS UNLESS OTHERWISE NOTED.*
6. *THE INTERIOR SURFACES OF ALL STORM DRAINAGE STRUCTURES SHALL BE POINTED UP AND SMOOTHED TO AN ACCEPTABLE STANDARD USING MORTAR MIXED TO MANUFACTURER'S SPECIFICATIONS.*
7. *ALL BACKFILL SHALL BE STRUCTURAL FILL, NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAID MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.*
8. *MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE AS UNSUITABLE FOR BACKFILL PURPOSES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.*
9. *BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST. THE TOP EIGHT (8) INCHES SHALL BE COMPACTED TO 100% STANDARD PROCTOR.*
10. *UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.*
11. *PLACED CONCRETE INVERT TO BE INSTALLED IN BOTTOM OF STORM DRAINAGE STRUCTURES TO ENSURE POSITIVE DRAINAGE FROM INLET TO OUTLET*

2/CD-3.0
STORM DRAINAGE NOTES

GENERAL NOTES:

1. *ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.*
2. *ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF CHAPEL HILL STANDARDS AND SPECIFICATIONS.*
3. *CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (1-800-632-4949) AT LEAST 48 HOURS 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 "NORTH CAROLINA ONE CALL".*
4. *PRIOR TO BEGINNING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL SCHEDULE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH THE TOWN OF CHAPEL HILL INSPECTIONS DEPARTMENT (919) 968-2718, AND A REPRESENTATIVE OF THE OWNER.*
5. *CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. NOTE THAT TREE PROTECTION FENCE NEAR SPECIMEN TREES IS TO BE CHAIN LINK PER DETAIL 1A/CD-3.1.*
6. *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.*
7. *SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES STEEPER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THESE SOILS SHALL BE COMPACTED TO THE STANDARD PROCTOR MAXIMUM DRY DENSITY UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER.*
8. *ALL BANKS, SWALES AND FILL SLOPES SHALL BE NO STEEPER THAN 2.5:1 MAXIMUM. CUT SLOPES SHALL BE NO STEEPER THAN 2:1.*
9. *ALL GRADING MUST PRODUCE SURFACE DRAINAGE ADEQUATE TO PREVENT STANDING WATER OR WET LAWN AREAS, AND TO ENSURE THAT ALL STORM WATER FLOWS TO INLETS OR OTHER POINTS OF DISCHARGE.*

4/CD-3.0
GRADING NOTES

BMP NOTES:

1. *PRIOR TO CONSTRUCTION OF EACH STORMWATER TREATMENT FACILITY (BIORETENTION AREA, SAND FILTERS, UNDERGROUND DETENTION SYSTEMS), THE GENERAL CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF CHAPEL HILL STORMWATER, UNC ENERGY SERVICES DEPARTMENT, A REPRESENTATIVE OF THE OWNER, THE CERTIFYING GEOTECHNICAL ENGINEER, AND ANY SUBCONTRACTOR USED IN THE CONSTRUCTION OF THAT FACILITY.*
2. *ALL UNDERGROUND STORMWATER TREATMENT FACILITIES ARE TO HAVE WATERTIGHT JOINTS AND BE RATED FOR H-20 LOADING (MIN.). CONTRACTOR TO PROVIDE SHOP DRAWINGS/SPECIFICATIONS VERIFYING THESE REQUIREMENTS. CONTRACTOR MUST PROVIDE DOCUMENTATION FROM THE MANUFACTURER THAT THE JOINTS ARE WATERTIGHT AND BUILT TO WITHSTAND THE MAXIMUM HYDROSTATIC PRESSURE CALCULATED AT THE INLET TO THE UNDERGROUND STRUCTURE DURING THE 10-YR STORM ACCORDING TO AN ACCEPTABLE ASTM OR AASHTO WATER TIGHTNESS STANDARD.*
3. *CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL PRECAST CONCRETE STRUCTURES, INCLUDING SEALED ENGINEERING DRAWINGS, FOR APPROVAL BY OWNER.*
4. *ALL BACKFILL AND UNDERLYING SOILS FOR STORMWATER FACILITIES MUST BE OBSERVED AND CERTIFIED BY A GEOTECHNICAL ENGINEER THAT IS A REGISTERED NCPE.*

5/CD-3.0
BMP NOTES

LEGEND

- *EXIST. STORM DRAIN*
- *EXIST. YARD INLET*
- *EXIST. CURB INLET*
- ***PROPOSED STORM DRAIN***
- ***PROPOSED MANHOLE (3/CD-3.20)***
- ***PROPOSED DROP INLET (2/CD-3.20)***
- ***PROPOSED CURB INLET (1/CD-3.20)***
- ***PROPOSED ACCESS HATCH (4/CD-3.20)***
- ***PROPOSED FLARED END SECTION (6/CD-3.20)***
- ***PROPOSED YARD DRAIN***
- ***PROPOSED TRENCH DRAIN (8/CD-3.20)***
- ***RL — PROPOSED ROOF LEADER MANIFOLD - SDR 35 PVC***
- ***YD — PROPOSED YARD DRAIN PIPING - SDR 35 PVC***
- ***— PROPOSED UNDERDRAIN PIPING - (3/CD-3.21)***

ENGINEERING, PLANNING, LANDSCAPE ARCHITECTURE
NC BOARD OF EXAMINERS FOR ENGINEERS & SURVEYORS LICENSE NO. C-1205

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NORTH CAROLINA PROFESSIONAL SEAL 23461 ENGINEER CHARLES W. JAY, JR.
8/14/17

NOT ISSUED FOR CONSTRUCTION

Job Number: 1122b

Drawn	WLR, MTC
Checked	WLR
Date	1-23-17
Revisions	6-8-17 SUP revisions to Town comments
	8-14-17 SUP revisions to Town comments

SPECIAL USE PERMIT

Sheet Title:

GRADING PLAN

Sheet Number

C300