

SECU FAMILY HOUSE EXPANSION

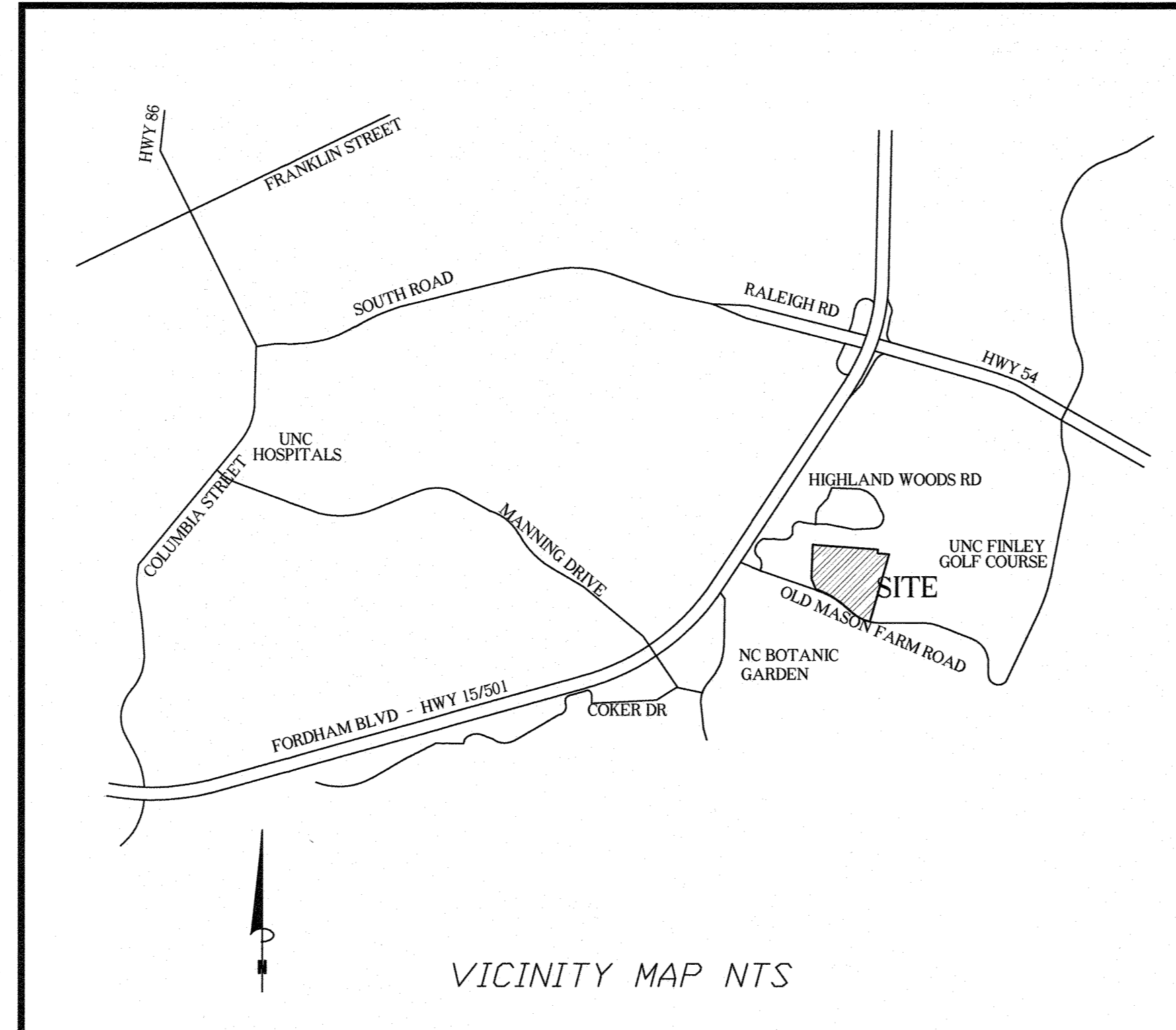
123 OLD MASON FARM ROAD, CHAPEL HILL, NC 27517

SPECIAL USE PERMIT APPLICATION

PROJECT DATA

| | |
|--|--|
| EXISTING USE | RESIDENTIAL SUPPORT FACILITY |
| 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 | 28,000 SF ADDITIONAL SPACE 62,336 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



PROJECT NOTES

GENERAL NOTES:

CONSTRUCTION WASTE:

- BY ORANGE COUNTY ORDINANCE, CLEAN WOOD WASTE, SCRAP METAL AND CORRUGATED CARDBOARD, ALL PRESENT IN CONSTRUCTION WASTE, MUST BE RECYCLED.
- BY ORANGE COUNTY ORDINANCE, ALL HAULERS OF CONSTRUCTION WASTE MUST BE PROPERLY LICENSED.
- 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.
- 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

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

SPECIAL CONDITIONS - NC DOT:

- 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

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 |

Coulter Jewell Thames
ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE
NC BOARD OF EXAMINERS FOR ENGINEERS & SURVEYORS LICENSE NO. C-1209

111 West Main Street
Durham, N.C. 27701
p 919.682.0368
f 919.688.5646
www.cjtpa.com

Project:

SECU Family House Expansion

123 Old Mason Farm Rd.
Chapel Hill, NC 27517

PIN:
9788543697

NOT ISSUED FOR CONSTRUCTION

Job Number: 1122b

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|-----------|---|
| 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:

COVER - PROJECT INFORMATION

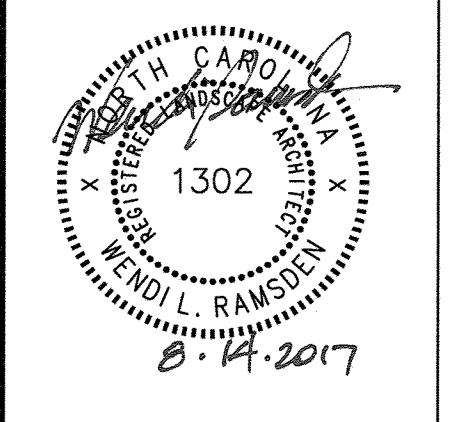
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C0



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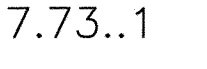


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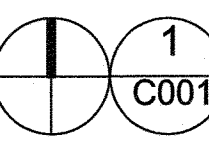
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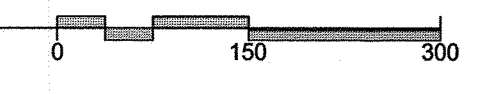
Sheet Title:

AREA MAP

Sheet Number
C001

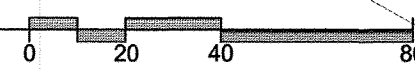
- LEGEND**
-  ZONING AREA DELINEATION
 -  LAND USE ZONE
 -  TAX MAP NUMBER
 -  ROAD RIGHT OF WAY
 -  PROPERTY LINE


1
C001
 AREA MAP
 1" = 150'





EXISTING CONDITIONS PLAN
 1" = 40'



LEGEND

| | | |
|--|-----|---------------------|
| | 000 | CONTOUR |
| | S | EXISTING STORM LINE |
| | | TREE LINE |

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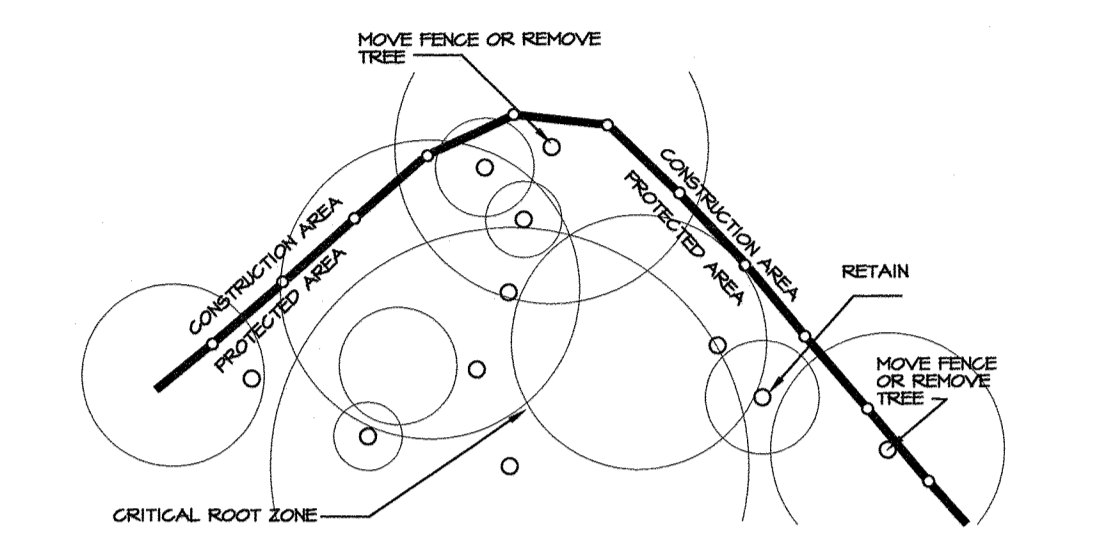
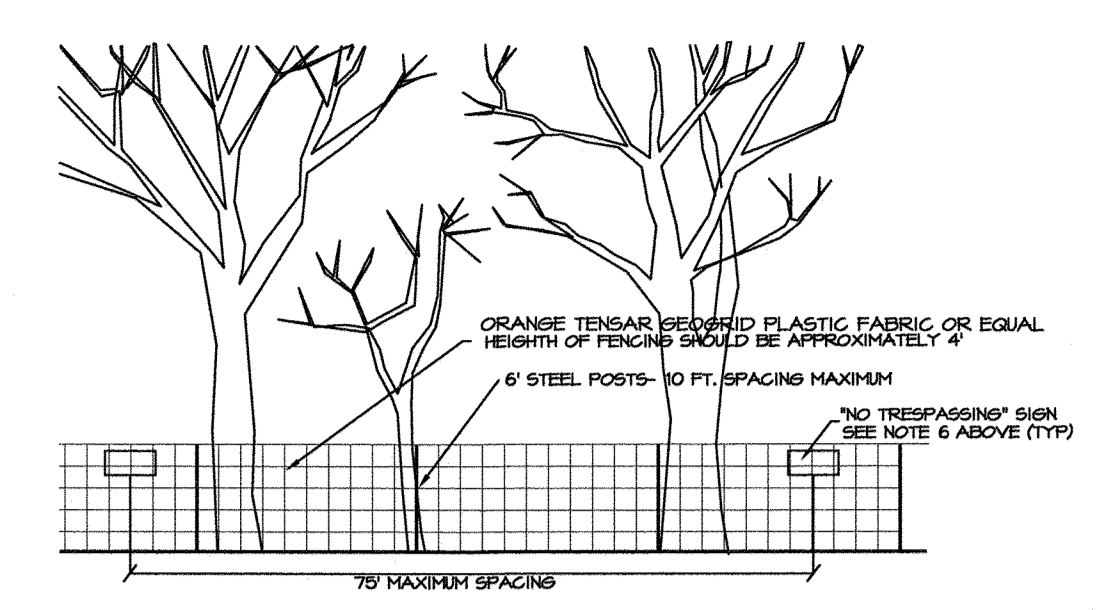
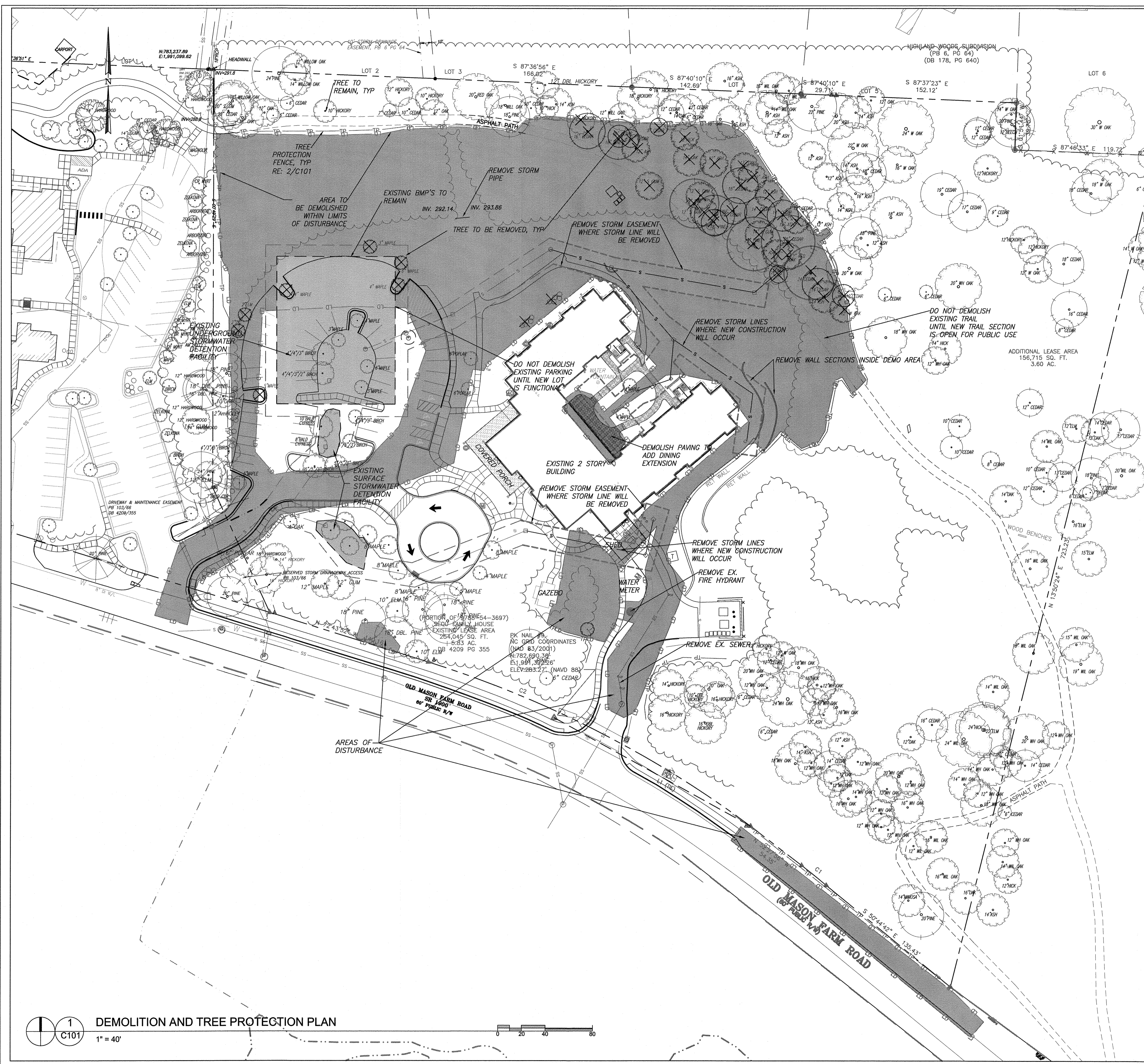
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SPECIAL USE PERMIT
 Sheet Title:
EXISTING CONDITIONS
 Sheet Number
C100



- NOTES:
1. MOVE FENCE OR REMOVE TREE IF MORE THAN 20% OF A TREE'S CRITICAL ROOT AREA IS UNPROTECTED.
 2. CRITICAL ROOT PRUNE TREES TO REMAIN WHERE CONSTRUCTION ACTIVITIES 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 A 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 NC DOT 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, CURBS 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 |

1
C101 DEMOLITION AND TREE PROTECTION PLAN
1" = 40'

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p 919.682.0368
f 919.688.5646
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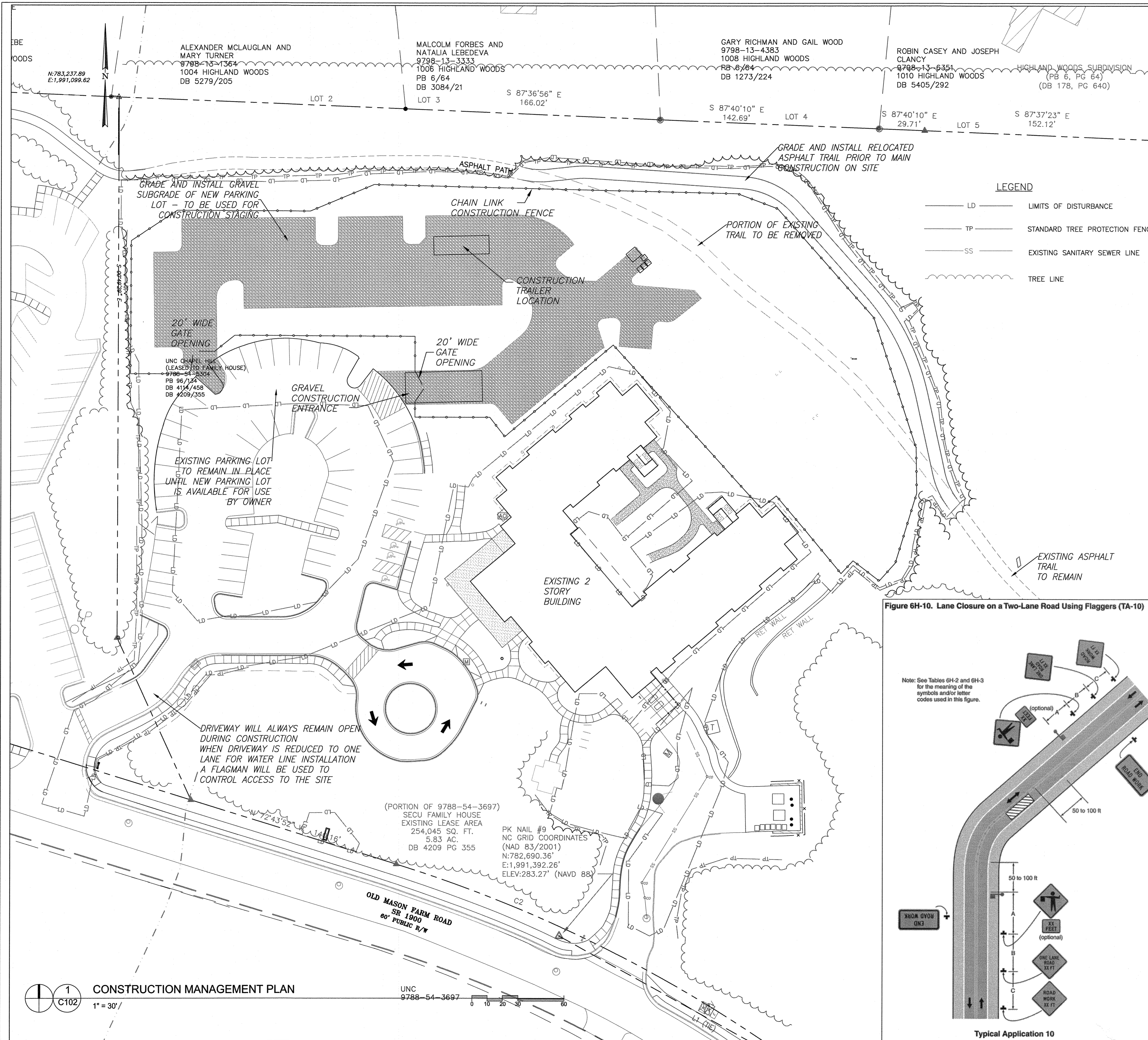
NOT ISSUED FOR CONSTRUCTION

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SPECIAL USE PERMIT

Sheet Title:
**DEMOLITION
AND TREE
PROTECTION
PLAN**
Sheet Number
C101



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.

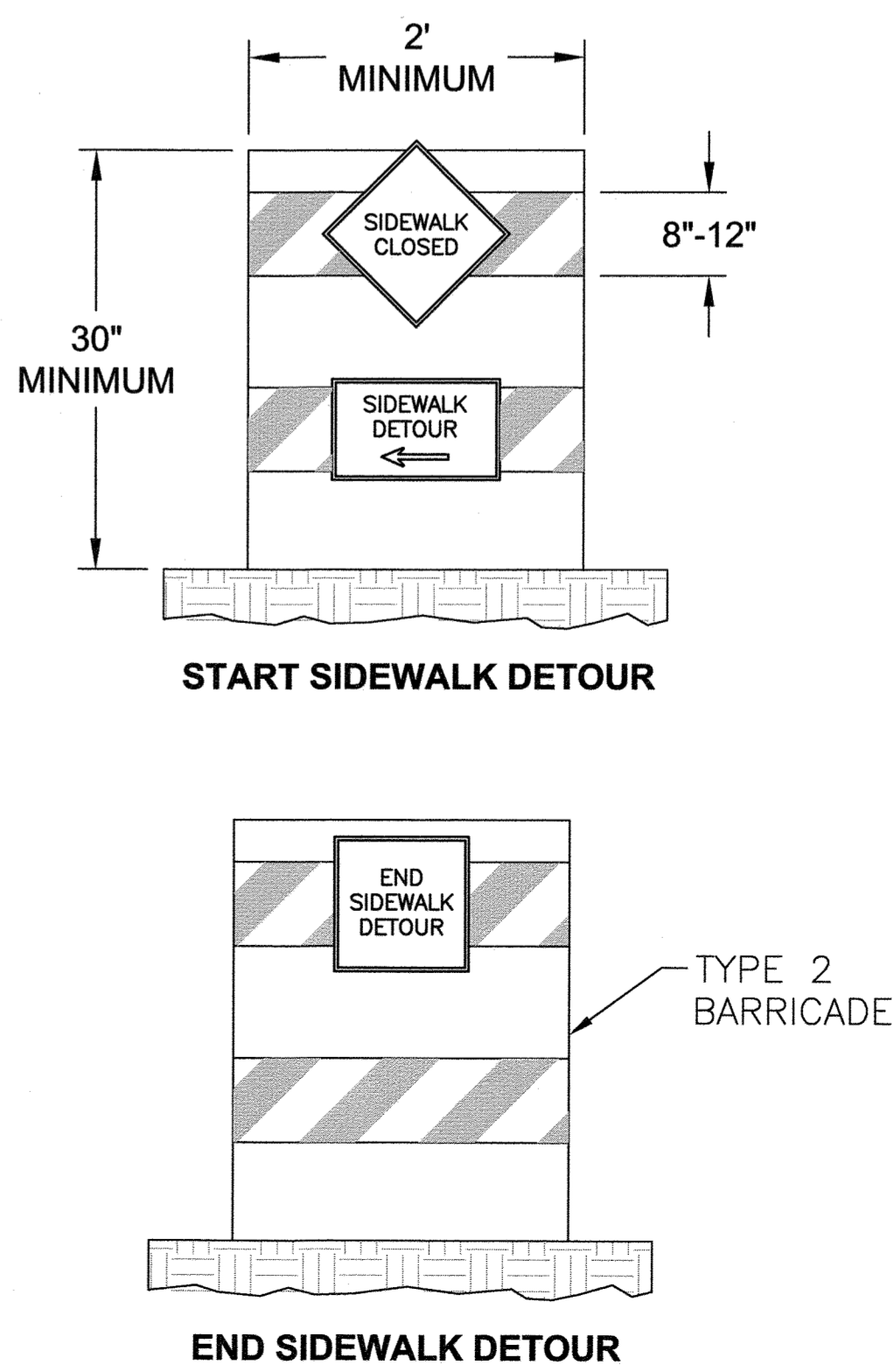
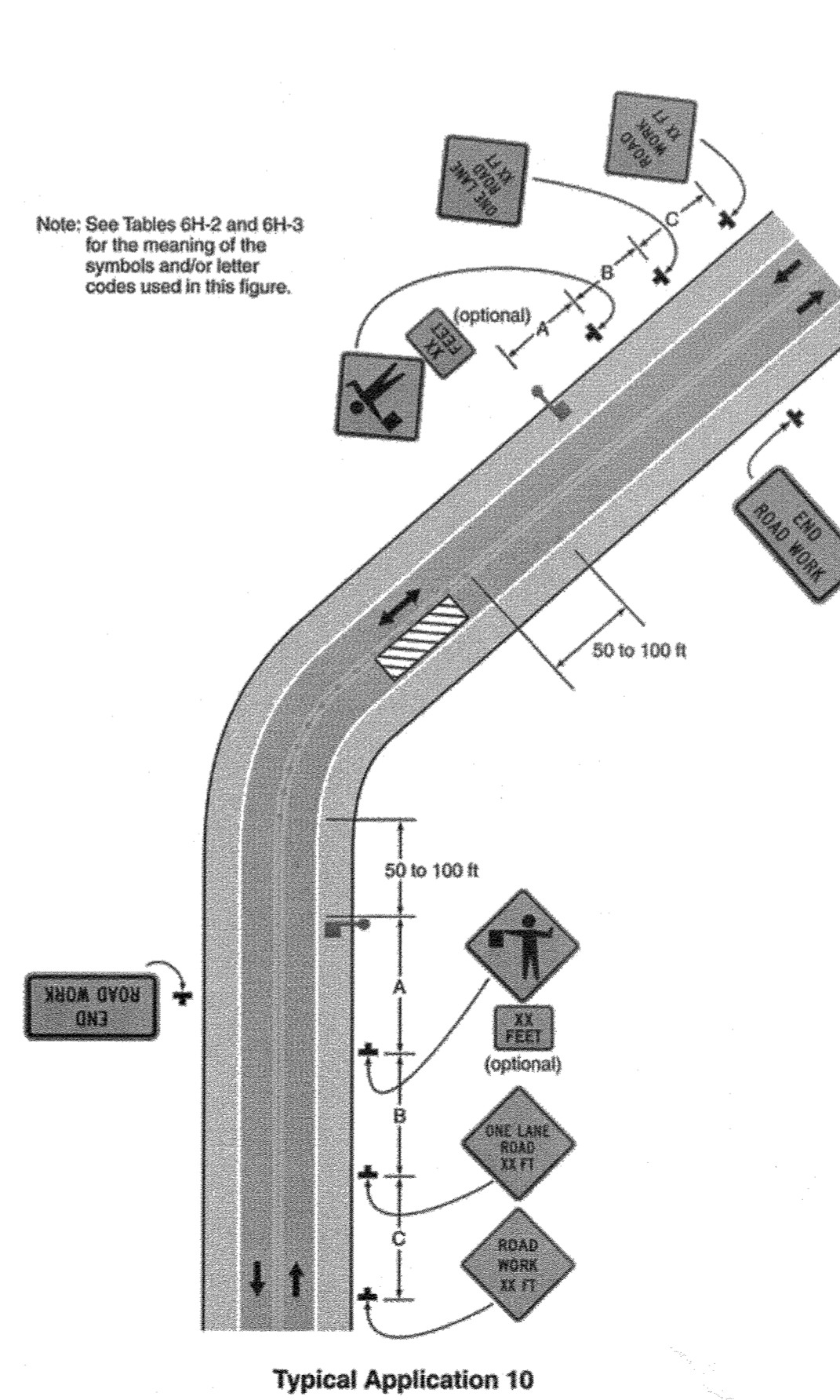
FIRE PROTECTION NOTES

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 KEYS, 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.

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



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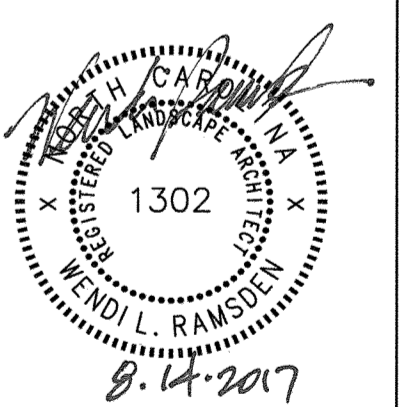
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Project:

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Family House
Expansion**

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CONSTRUCTION

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SPECIAL USE PERMIT

Sheet Title:


**CONSTRUCTION
MANAGEMENT
PLAN**

Sheet Number

C102




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



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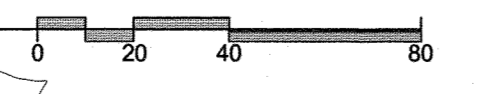
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SLOPE ANALYSIS PLAN

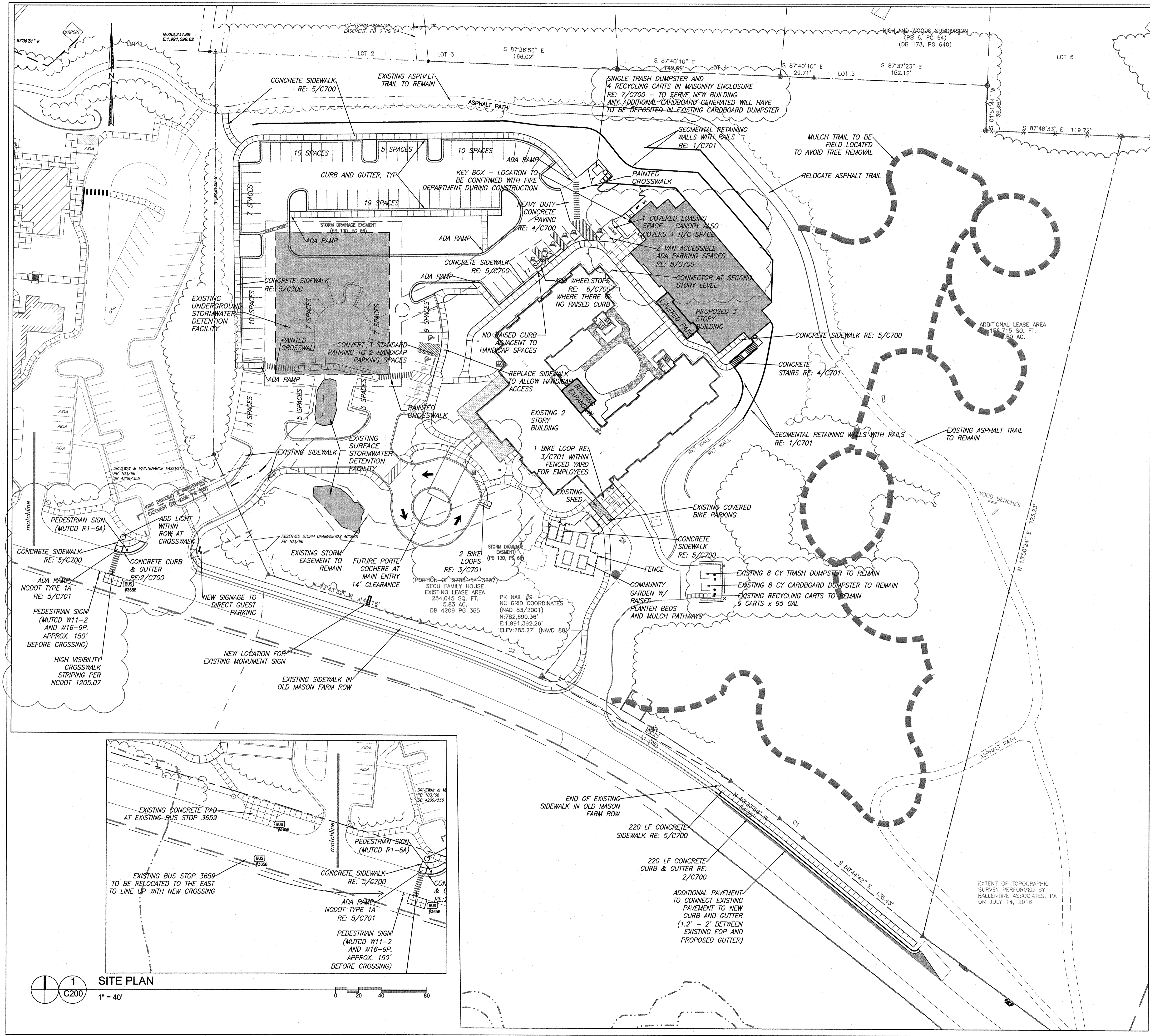
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LEGEND

- 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

EXISTING CONDITIONS - SLOPE ANALYSIS
 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 R7-8a 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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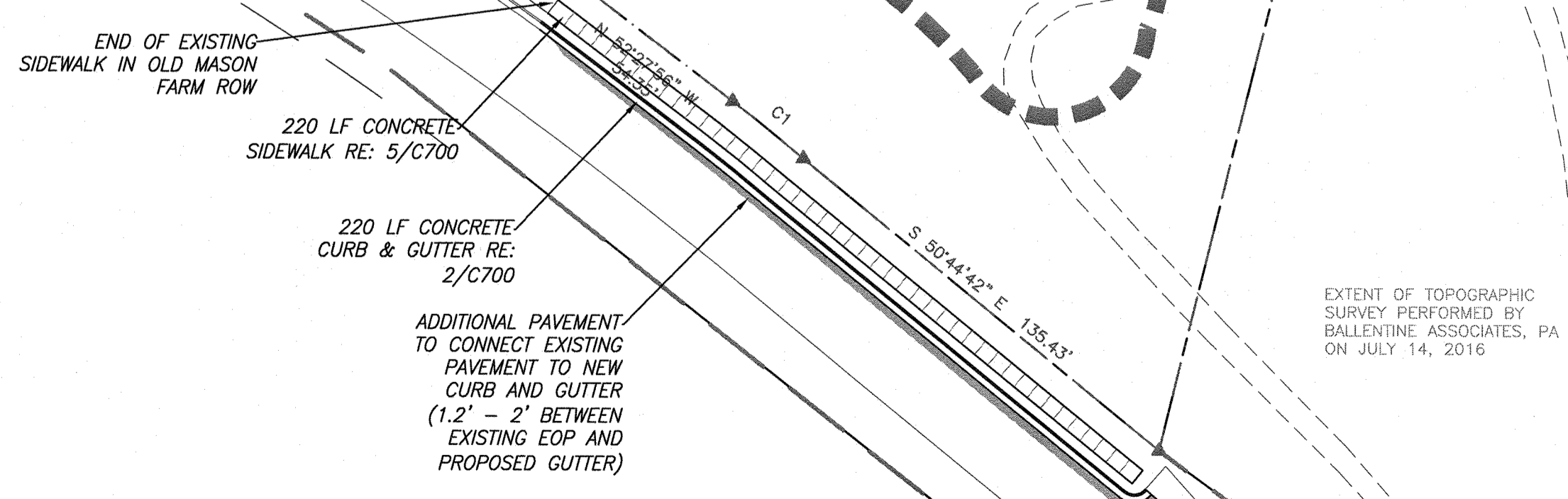
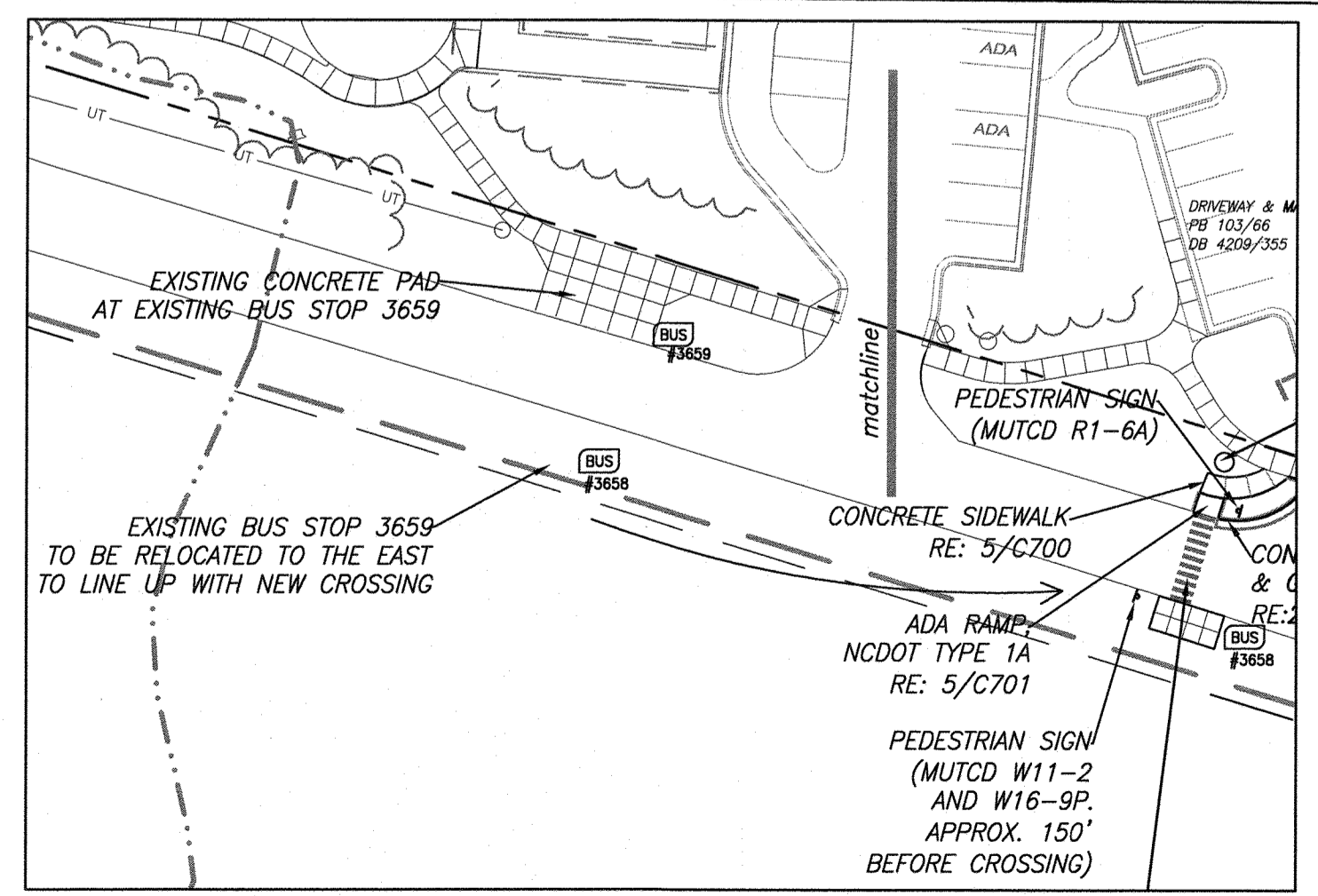
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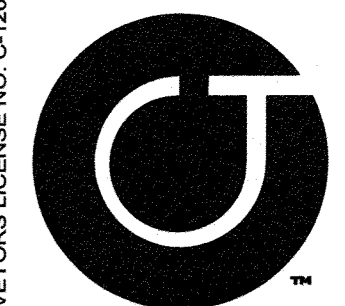
Sheet Title:
SITE PLAN

Sheet Number
C200

1 SITE PLAN
 C200
 1" = 40'



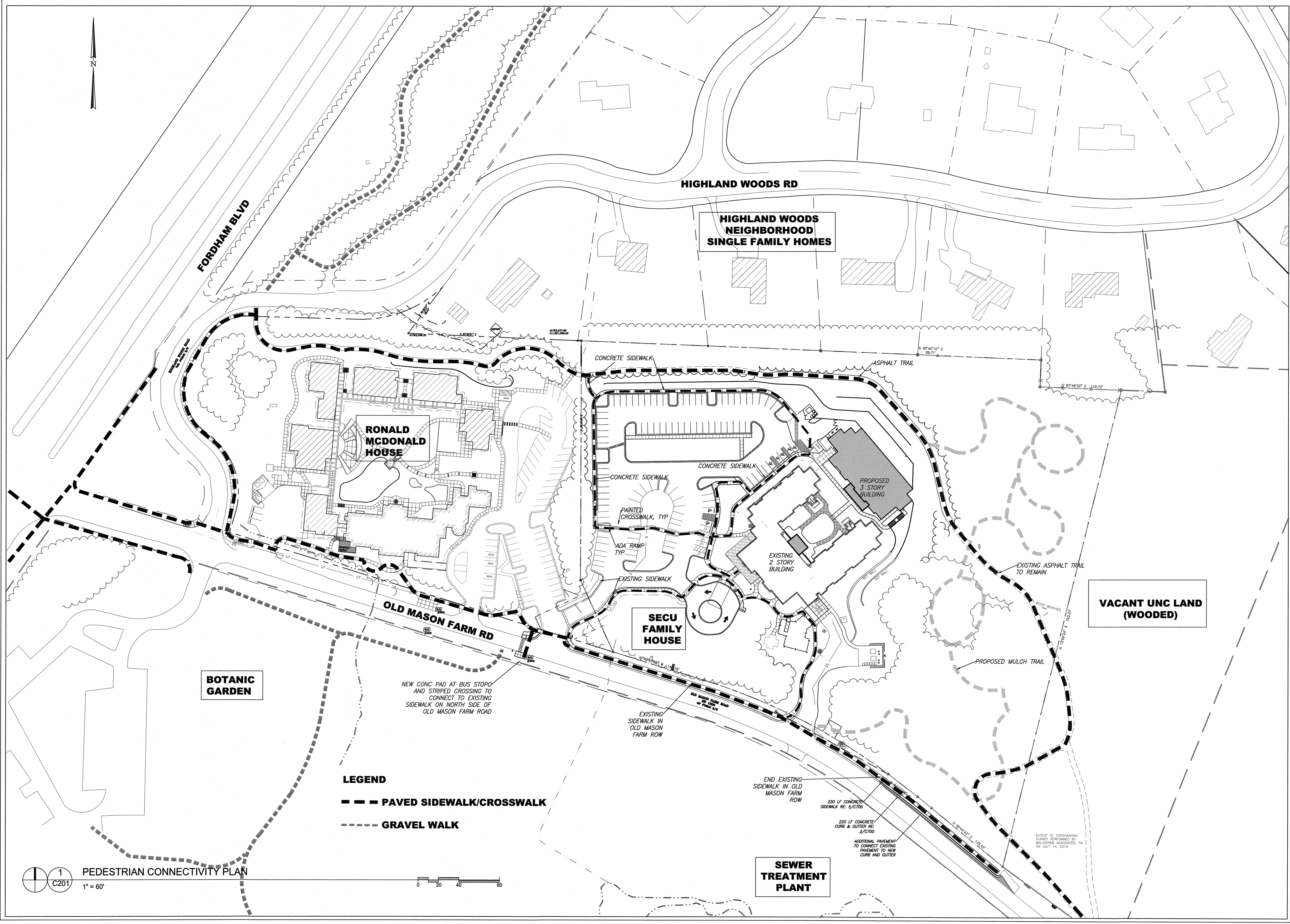
EXTENT OF TOPOGRAPHIC SURVEY PERFORMED BY BALLENTINE ASSOCIATES, PA ON JULY 14, 2016



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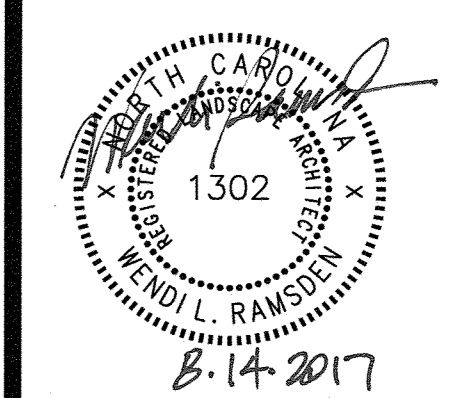


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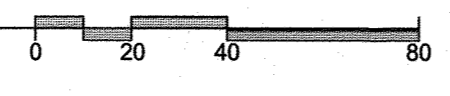
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**PEDESTRIAN
CONNECTIVITY
PLAN**

Sheet Number

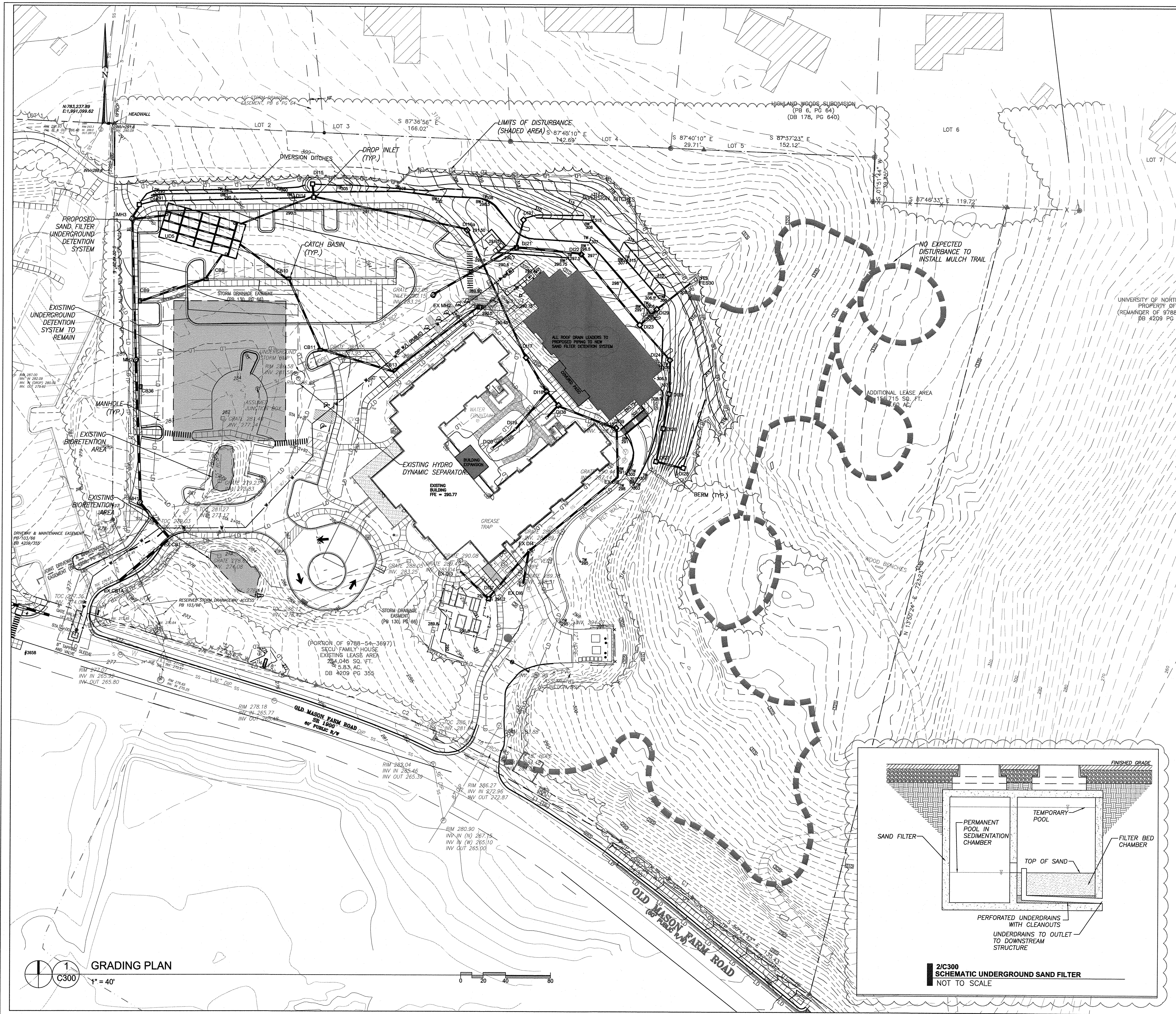
C201

1
C201
PEDESTRIAN CONNECTIVITY PLAN
1" = 60'



- LEGEND**
- PAVED SIDEWALK/CROSSWALK
 - - -** GRAVEL WALK

**SEWER
TREATMENT
PLANT**



- 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. SAND MATERIAL SHALL BE 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.

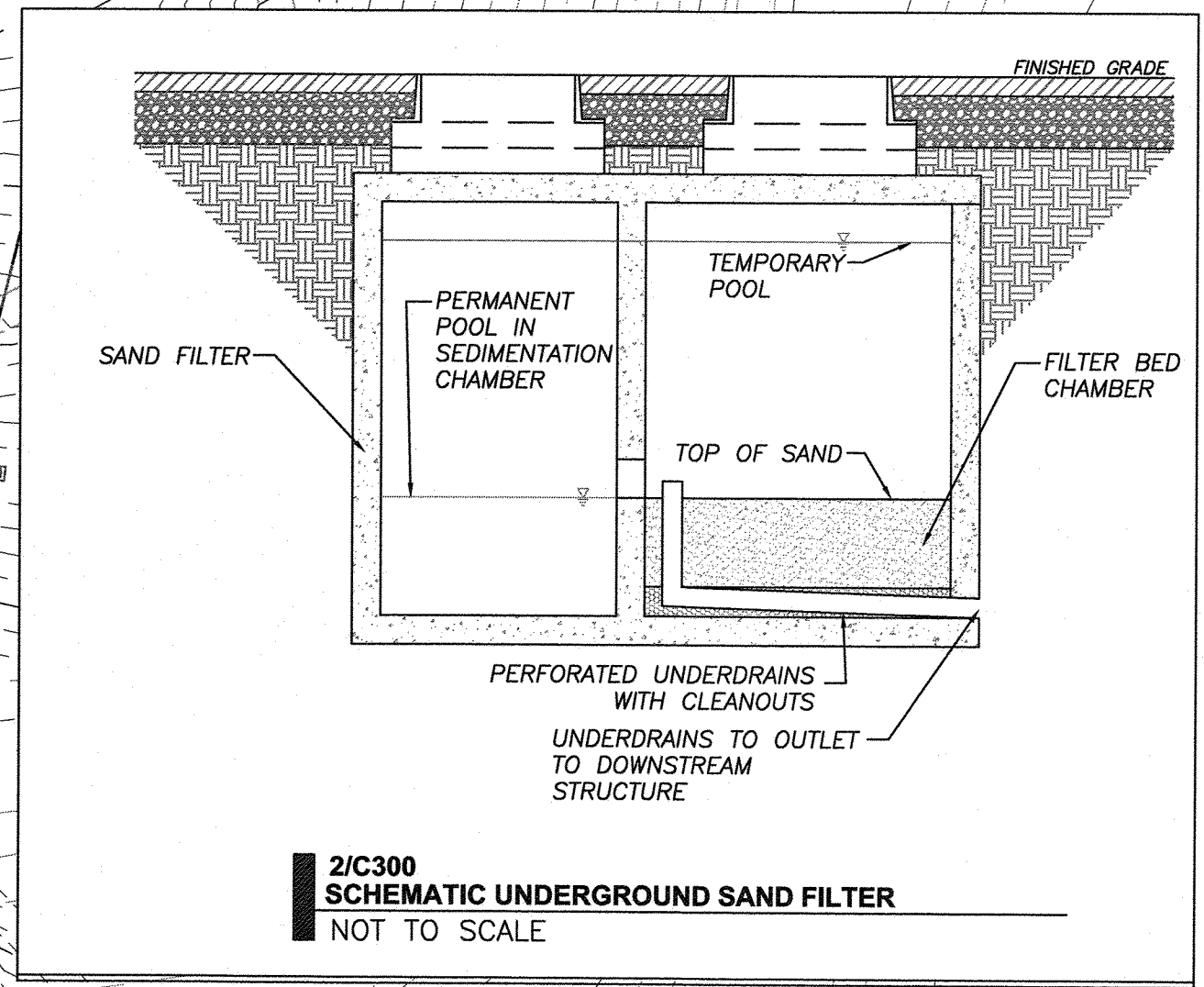
- 2/CD-30 STORM DRAINAGE NOTES**
- GENERAL NOTES:**
1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. 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" (1-800-632-8949) 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 (HV) 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, SLOPES 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-30 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 NOPE.

5/CD-30 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 (9/CD-3.20)
- PROPOSED ROOF LEADER MANHOLE - SDR 35 PVC
- PROPOSED YARD DRAIN PIPING - SDR 35 PVC
- PROPOSED UNDERDRAIN PIPING - (3/CD-3.21)



1 GRADING PLAN
C300
1" = 40'

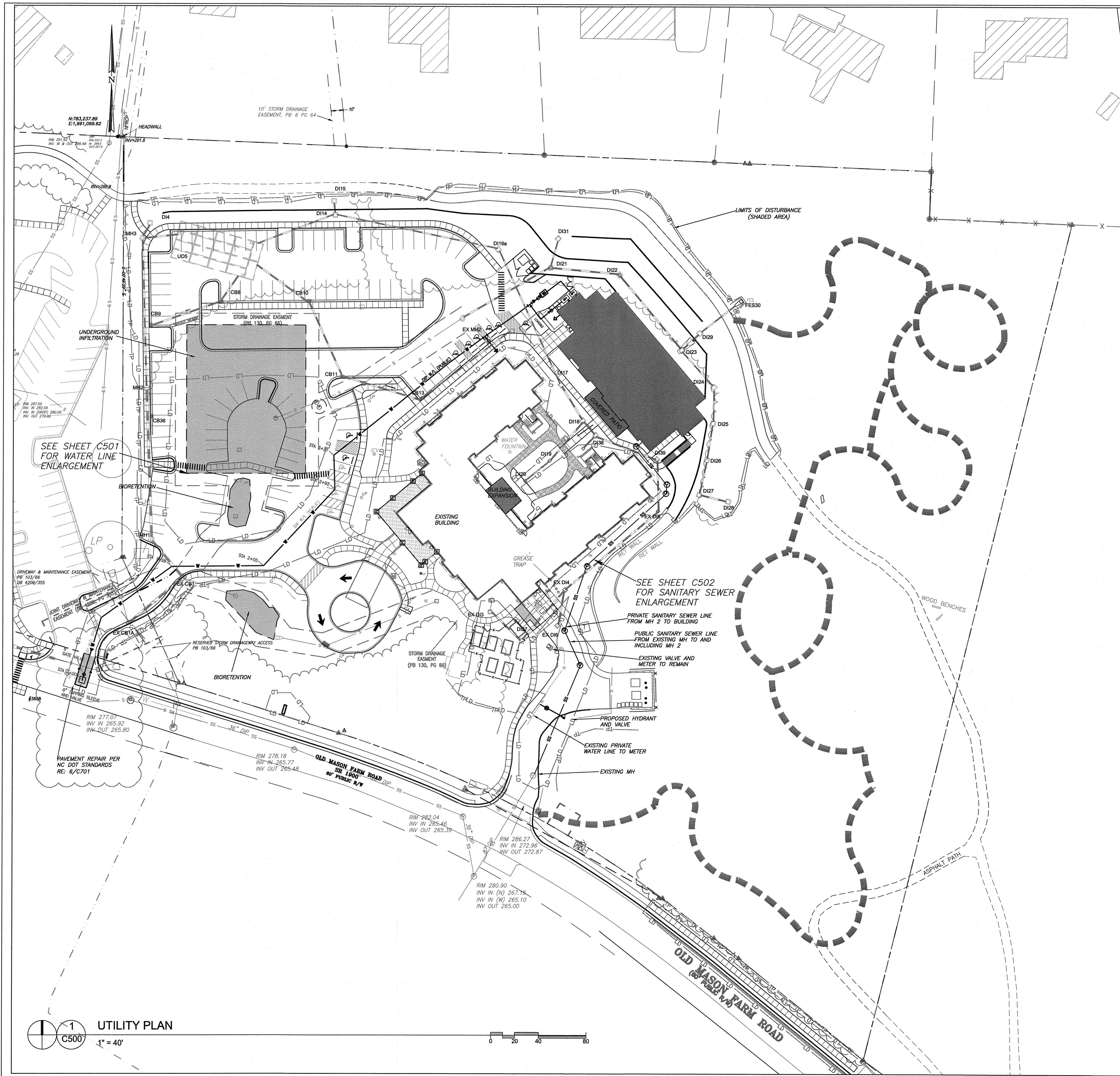
Coulter Jewell Thames
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Durham, N.C. 27701
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f 919.688.5646
www.cjtpa.com

Project:
SECU Family House Expansion
123 Old Mason Farm Rd.
Chapel Hill, NC 27517

Professional Engineer Seal:
CHARLES N. WALKER
23461
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



LEGEND

- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING UG ELECTRIC
- EXISTING SANITARY SEWER
- EXISTING UG TELEPHONE LINE
- EXISTING STORM LINE
- EXISTING TREE LINE
- ⊙ EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- W — PROPOSED WATER LINE
- LD — LD — PROPOSED LIMITS OF DISTURBANCE
- SS — PROPOSED SANITARY SEWER
- ⊙ CO ⊙ TBCO ⊙ PROPOSED SANITARY CLEANOUT/TRAFFIC BEARING CLEANOUT
- PROPOSED STORM DRAINAGE

GENERAL NOTES:

1. 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 SERVICE INDEPENDENT OF "NORTH CAROLINA ONE CALL". ALL PUBLIC AND PRIVATE UTILITY LINES ARE TO BE LOCATED PRIOR TO SITE WORK.
2. ALL WATER AND SEWER MAINS WITHIN PUBLIC EASEMENTS AND RIGHT-OF-WAYS TO BE OWNED, OPERATED AND MAINTAINED BY OWASA.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF CHAPEL HILL STANDARDS AND SPECIFICATIONS.
4. ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATELY LOCATED. ACTUAL LOCATION AND DEPTH SHALL BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION.
5. BEFORE STARTING ANY CONSTRUCTION OF IMPROVEMENTS WITHIN ANY CITY OR N.C.D.O.T. STREET OR HIGHWAY RIGHT-OF-WAY THE FOLLOWING PROCEDURES SHOULD BE UNDERTAKEN: CITY RIGHT-OF-WAY: CONTACT LOCAL AUTHORITIES' TRAFFIC ENGINEERING DEPT. FOR INFORMATION ON DETOURS, OPEN CUTTING OF STREETS OR FOR ANY CONSTRUCTION WITHIN RIGHT-OF-WAY. N.C.D.O.T. RIGHT-OF-WAY: CONTACT PROJECT ENGINEERS AND OBTAIN ALL PERMITS AND ENCROACHMENTS (KEEP COPIES ON CONSTRUCTION SITE, ALSO CONTACT N.C.D.O.T. DISTRICT OFFICE 24 HOURS IN ADVANCE BEFORE PLACING CURB AND GUTTER).
6. 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 ANY PLAN OR GRADING 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.
7. POWER, TELEPHONE, AND GAS SERVICES TO BUILDINGS SHALL BE UNDERGROUND. ACCESS AND SERVICE ROUTES TO BE COORDINATED WITH THE PUBLIC UTILITIES, CONTRACTOR AND THE OWNER.
8. RESURFACING OF STREET DUE TO UTILITY CUTS SHALL BE REQUIRED AT THE DIRECTION OF ENGINEERING. (MINIMUM 50' TO EITHER SIDE OF UTILITY CUTS).


SANITARY SEWER:

1. BACKFLOW PREVENTORS SHALL BE PROVIDED FOR ALL UNITS WITH FINAL FLOOR ELEVATIONS OF BUILDINGS LESS THAN 1'-0" ABOVE UPSTREAM MANHOLE RIM.
2. MINIMUM COVER OF 5 FEET IN TRAFFIC AREAS TO BE PROVIDED FOR ALL COLLECTOR LINES 4 INCHES AND LARGER. IF LESS THAN 5 FEET, DUCTILE IRON PIPE SHALL BE REQUIRED.
3. MINIMUM SLOPE FOR 6 INCH SANITARY SEWER COLLECTION LINES SHALL BE NO LESS THAN 1.0%.

WATER:

1. WATERLINES WILL BE 3' OFF CURB AND GUTTER UNLESS SHOWN OTHERWISE.
2. LAY WATER MAINS AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SANITARY SEWERS. IF LOCAL CONDITIONS OR BARRIERS PREVENT A 10 FOOT SEPARATION, LAY THE WATER MAIN WITH AT LEAST 18" VERTICAL SEPARATION ABOVE THE TOP OF THE SANITARY SEWER PIPE EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON A BENCH OF UNDISTURBED EARTH.
3. WHEN A PROPOSED WATER MAIN CROSSES OVER A PROPOSED OR EXISTING SANITARY SEWER, LAY THE WATER MAIN WITH AT LEAST 18" VERTICAL SEPARATION ABOVE THE TOP OF THE SANITARY SEWER. IF LOCAL CONDITIONS PREVENT AN 18" VERTICAL SEPARATION, CONSTRUCT BOTH THE WATER MAIN AND THE SANITARY SEWER FOR A DISTANCE OF 10 FEET ON EACH SIDE TO THE POINT OF CROSSING WITH FERROUS PIPE HAVING WATER MAIN QUALITY JOINTS.
4. WHEN A PROPOSED WATER MAIN CROSSES UNDER A PROPOSED OR EXISTING SANITARY SEWER, CONSTRUCT BOTH THE WATER MAIN AND THE SANITARY SEWER OF FERROUS MATERIALS WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. CENTER THE SECTION OF WATER PIPE AT THE POINT OF CROSSING.
5. MAINTAIN A MINIMUM COVER OF 36" AND MAXIMUM COVER OF 42" BELOW FINISHED GRADE OVER ALL PIPES UNLESS OTHERWISE DIRECTED OR SHOWN ON THE PLANS. DUE TO THE HEIGHTS OF VALVES, INCREASE THE COVER DEPTHS ADJACENT TO THE VALVES OR VARIED AT POINTS OF TIE-IN TO EXISTING LINES.
6. ALL FDC(S) AND HYDRANT(S) TO BE PROVIDED WITH 5 INCH DIAMETER STORZ CONNECTIONS.
7. FIRE SPRINKLER RISER ROOM SHALL HAVE A DRAIN LARGE ENOUGH TO HANDLE SPRINKLER TESTING PER NC BUILDING CODE.

ENGINEERING, PLANNING, LANDSCAPE ARCHITECTURE
NC BOARD OF EXAMINERS FOR ENGINEERS & SURVEYORS LICENSE NO. C-1209



**Coulter
Jewell
Thames, P.A.**

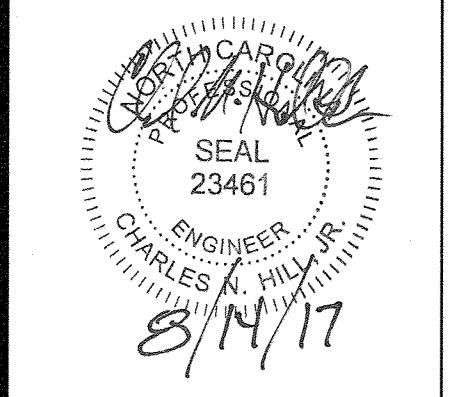
111 West Main Street
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Project:

**SECU
Family House
Expansion**

123 Old Mason Farm Rd.
Chapel Hill, NC 27517

PIN:
9788543697



**NOT ISSUED FOR
CONSTRUCTION**

Job Number: 1122b

| | |
|-----------|--|
| Drawn | WLR, MTC |
| Checked | WLR |
| Date | 1-23-17 |
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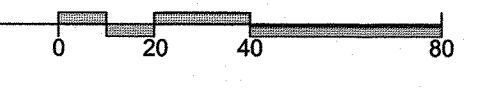
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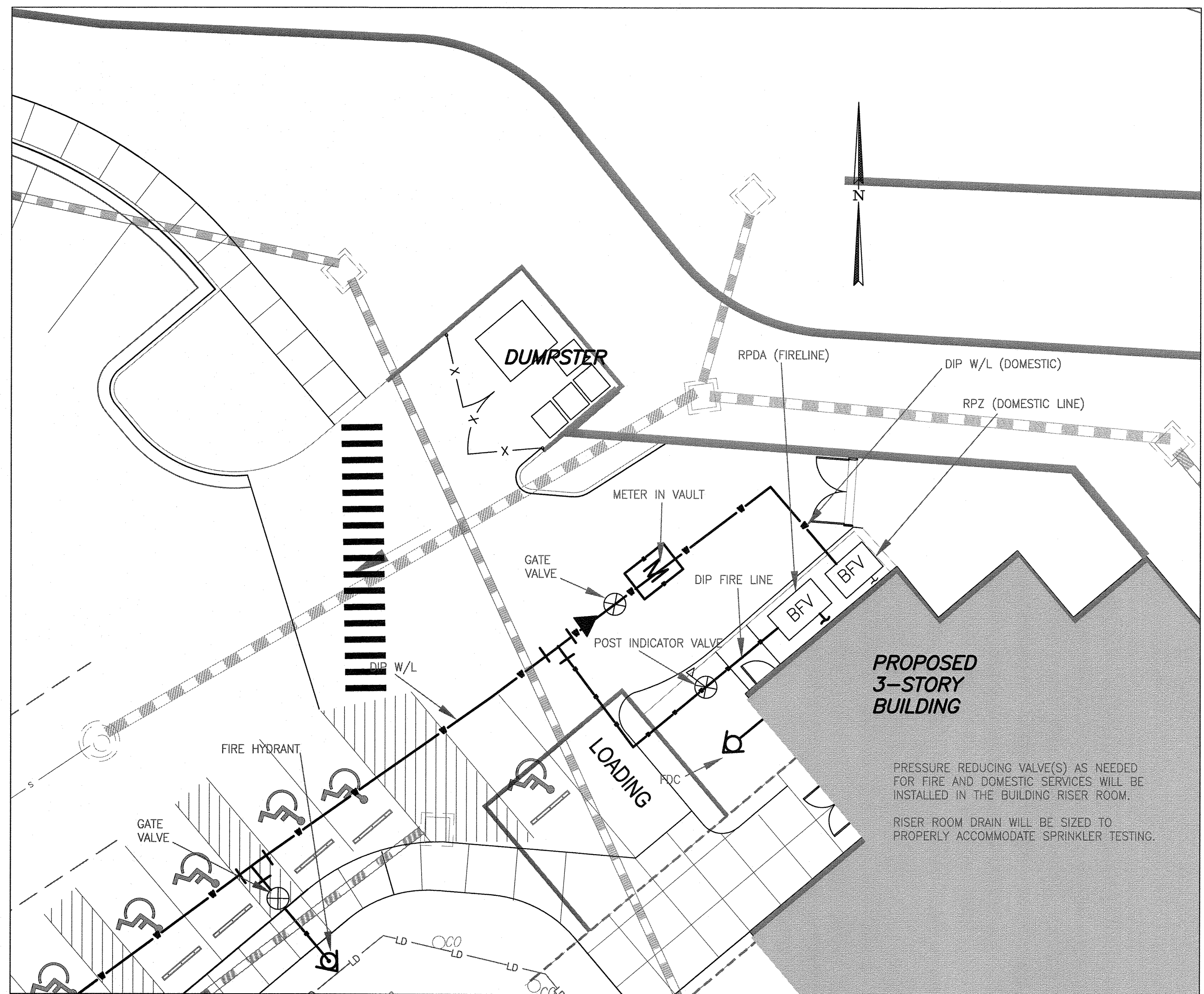
**UTILITY
PLAN**

Sheet Number
C500

UTILITY PLAN
1
C500
1" = 40'



UTILITY PLAN
2
C500



LEGEND

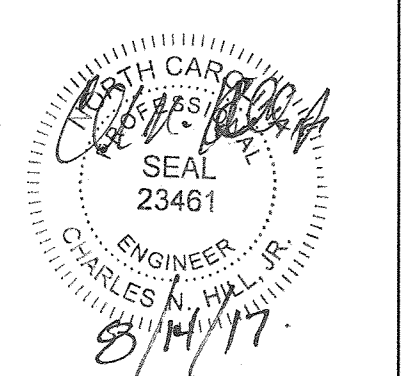
- EXISTING GAS LINE
- w — w — EXISTING WATER LINE
- ⊕ EXISTING FIRE HYDRANT
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- LD — LD — PROPOSED LIMITS OF DISTURBANCE
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- ⊕ TBCO ⊕ PROPOSED SANITARY CLEANOUT/TRAFFIC BEARING CLEANOUT
- — PROPOSED STORM DRAINAGE

1 WATER UTILITY PLAN
C501
1" = 20'

2 WATER UTILITY PLAN - ENLARGED VIEW
C501
1" = 10'

Project:
SECU Family House Expansion
123 Old Mason Farm Rd.
Chapel Hill, NC 27517

PIN:
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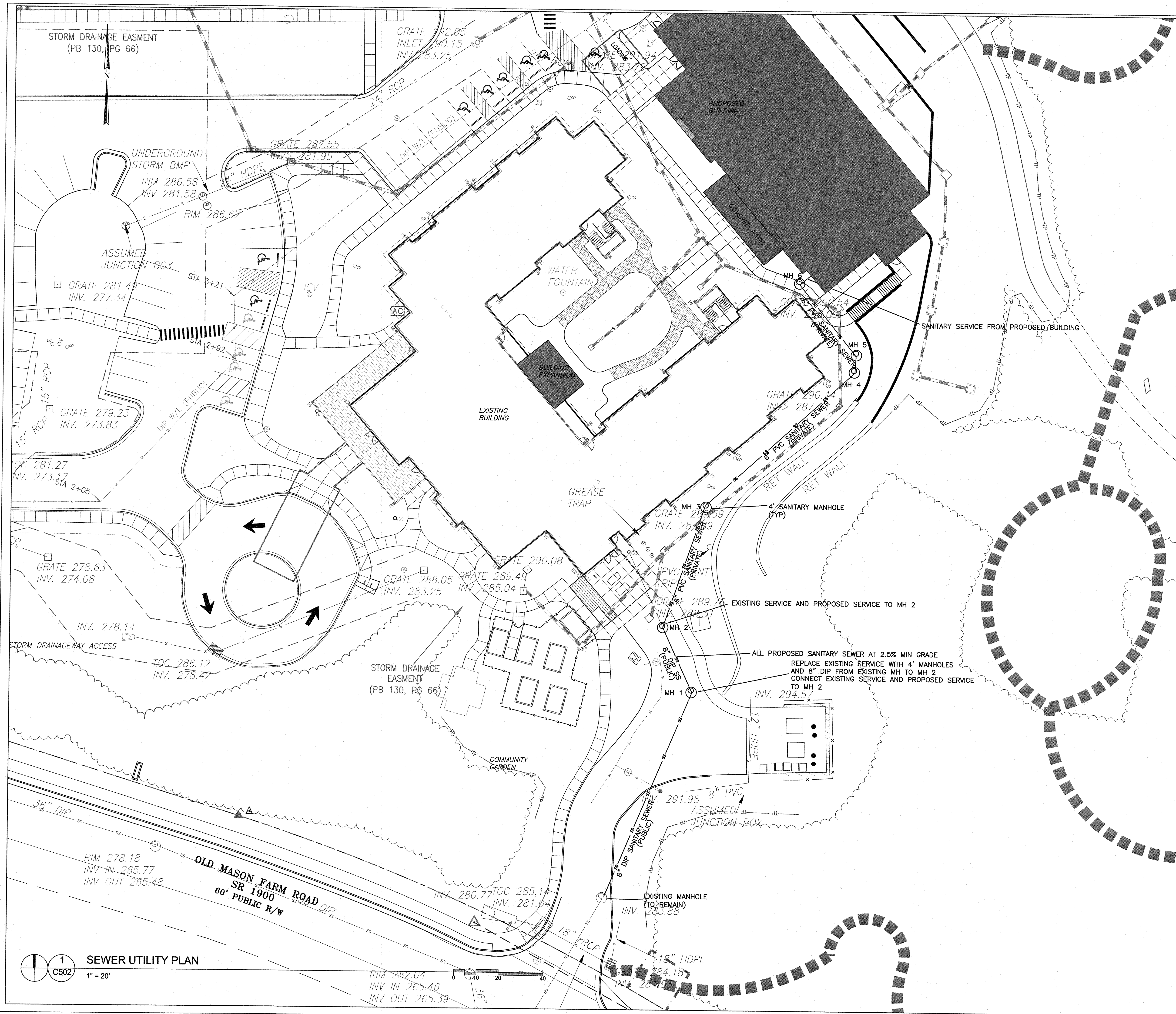
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| Checked | WLR |
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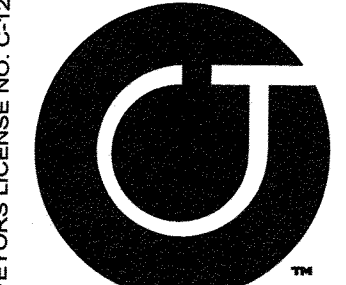
Sheet Title:

WATER UTILITY PLAN

Sheet Number
C501



1
C502
SEWER UTILITY PLAN
1" = 20'



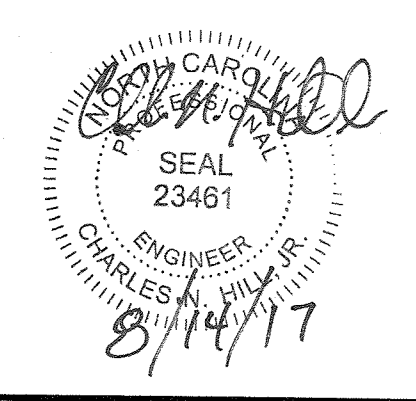
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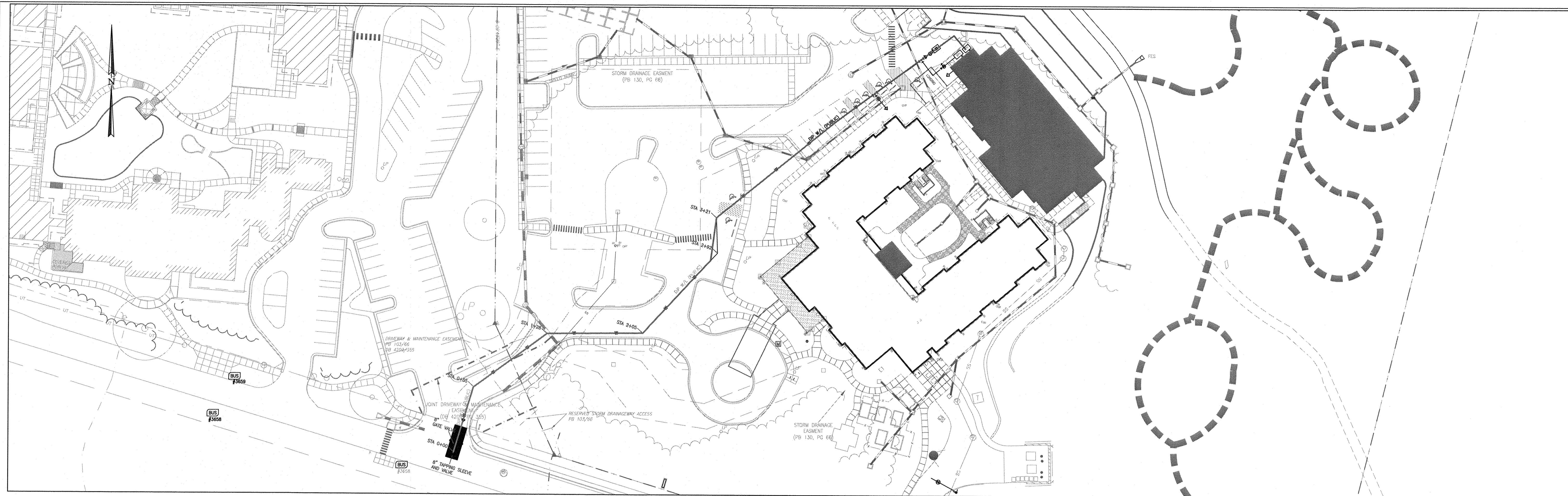
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**SEWER
UTILITY
PLAN**

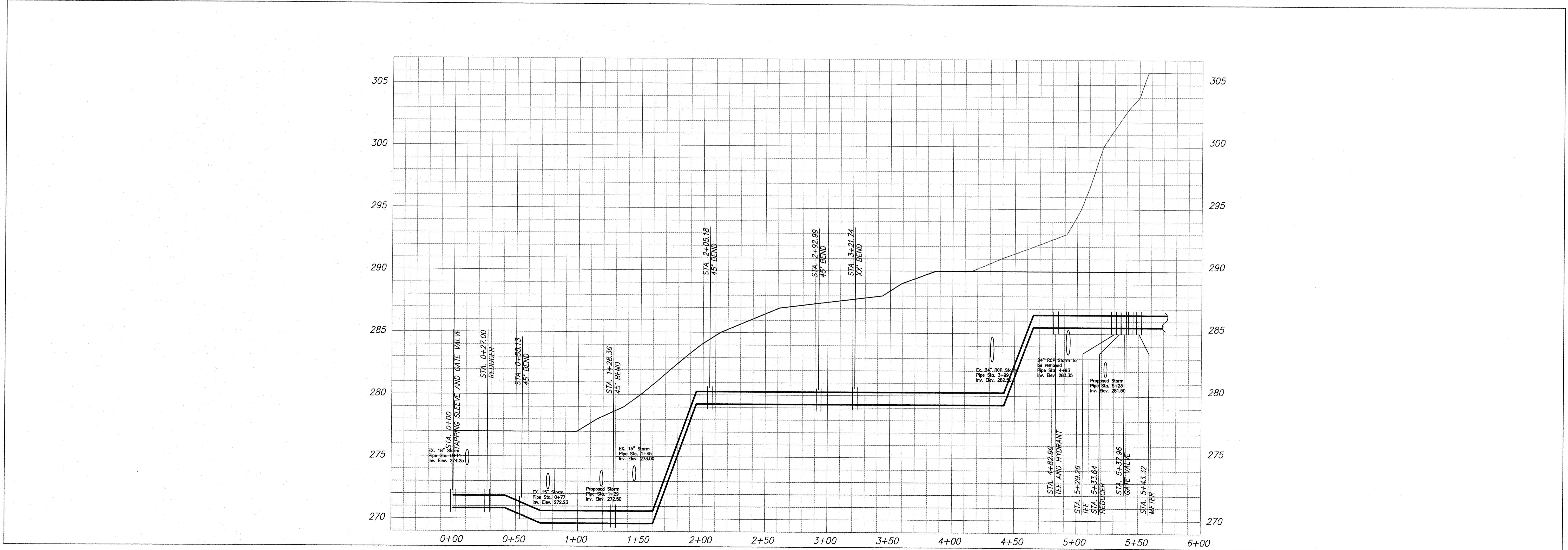
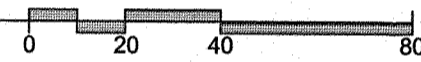
Sheet Number

C502

- LEGEND**
- — — — — EXISTING GAS LINE
 - w — w — EXISTING WATER LINE
 - ⊕ EXISTING FIRE HYDRANT
 - — — — — EXISTING UG ELECTRIC
 - — — — — EXISTING SANITARY SEWER
 - — — — — EXISTING STORM LINE
 - LD — LD — PROPOSED LIMITS OF DISTURBANCE
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 - — — — — PROPOSED STORM DRAINAGE

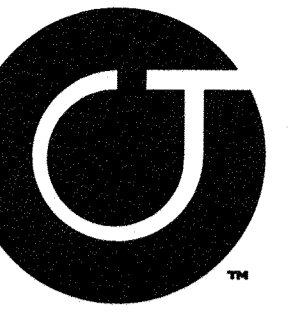


1 UTILITY PLAN
C503 1" = 40'



2 UTILITY PROFILE
C503

Scale 1" = 40' Horiz.
Scale 1" = 4' Vert.



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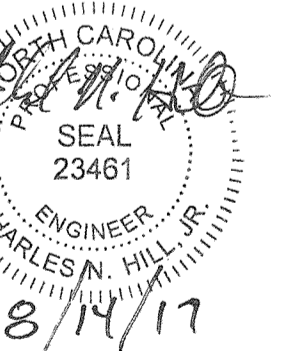
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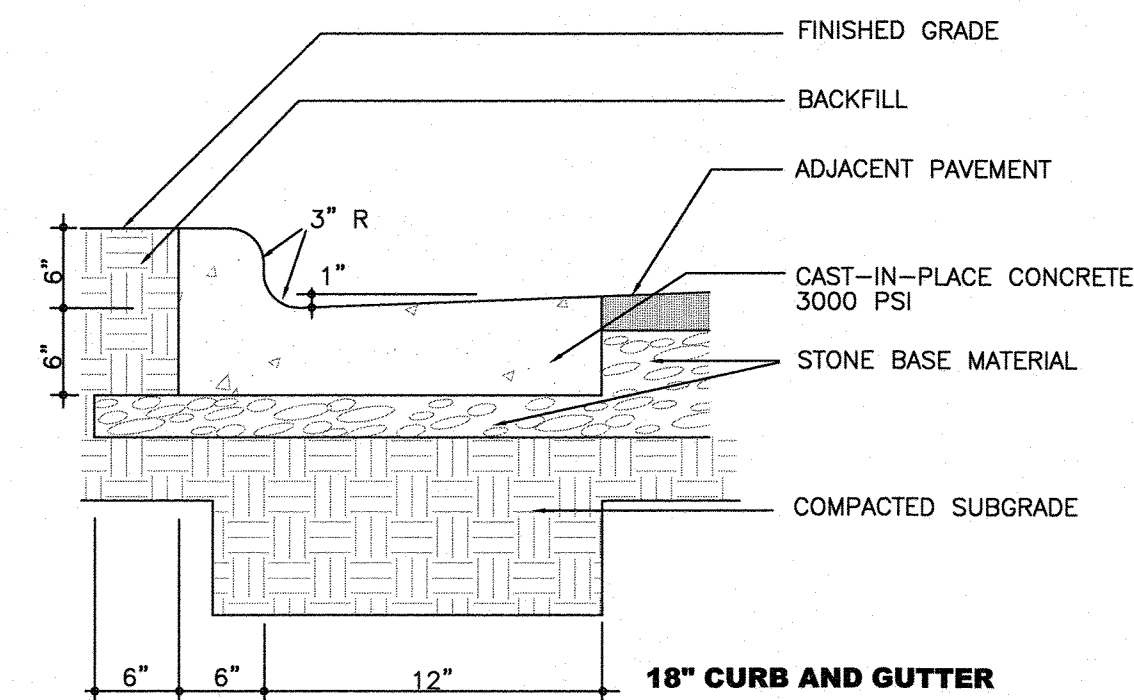
Sheet Title:

WATER
PLAN AND
PROFILE

Sheet Number

C503

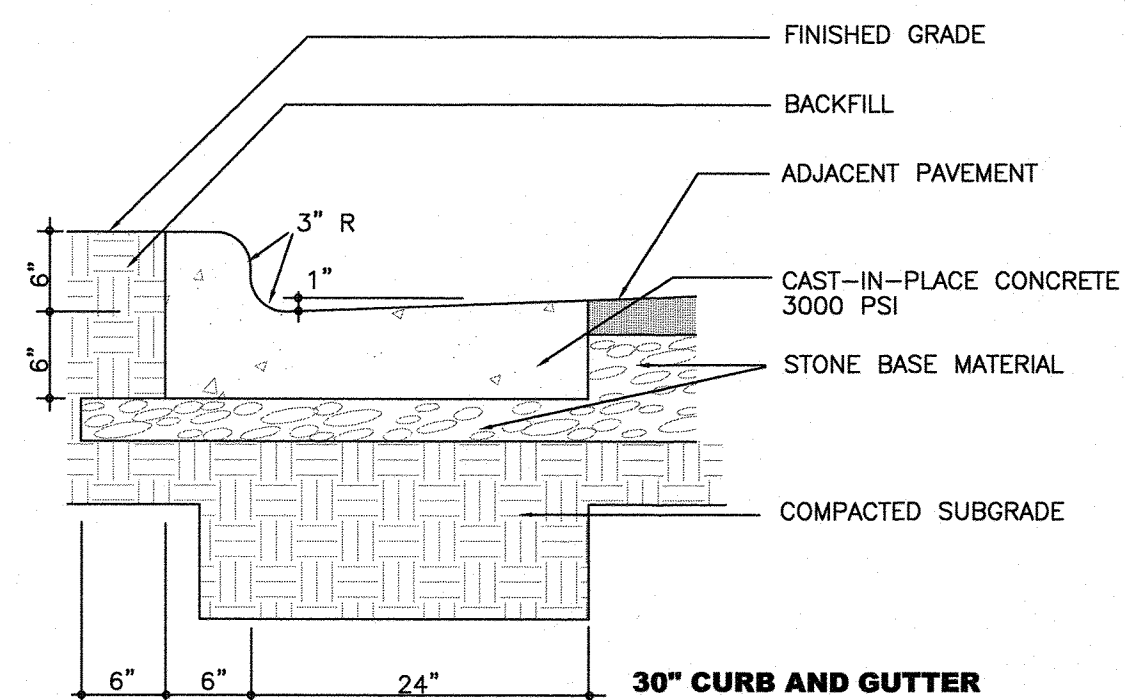
-CONTRACTION JOINTS SHALL BE SPACED AT 10 FOOT INTERVALS. EXCEPT THAT A 15 FOOT SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10 FOOT INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
 -CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE MAINTAINED.
 -ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT FILLER.
 -JOINTS SHALL MATCH LOCATIONS WITH JOINT IN ABUTTING SIDEWALK.
 -EXPANSION JOINTS SHALL BE SPACED AT 90 FOOT INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.



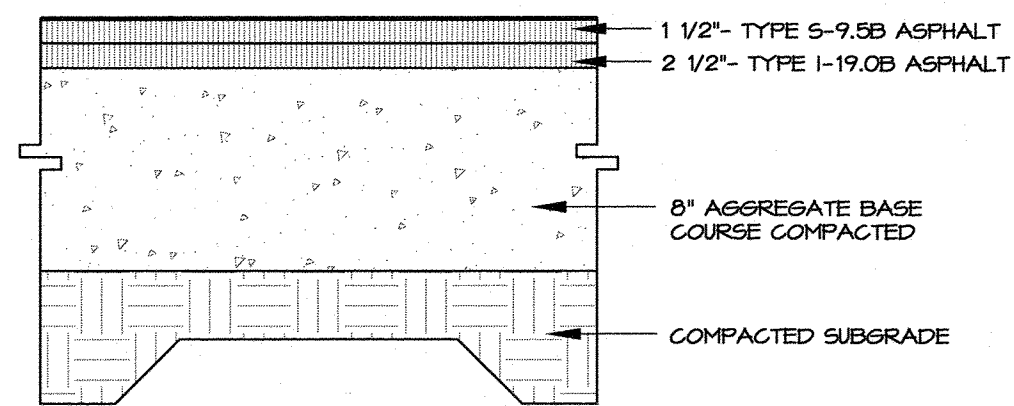
NOTE THAT THIS DETAIL DOES NOT MEET NC DOT REQUIREMENTS. ANY CURB AND GUTTER TO BE CONSTRUCTED IN THE OLD MASON FARM ROAD RIGHT OF WAY IS TO FOLLOW NC DOT STANDARDS RE: 2/C700

1/C700
ON SITE CONCRETE CURB & GUTTER
NTS

-CONTRACTION JOINTS SHALL BE SPACED AT 10 FOOT INTERVALS. EXCEPT THAT A 15 FOOT SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10 FOOT INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
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2/C700
NC DOT CONCRETE CURB & GUTTER
NTS

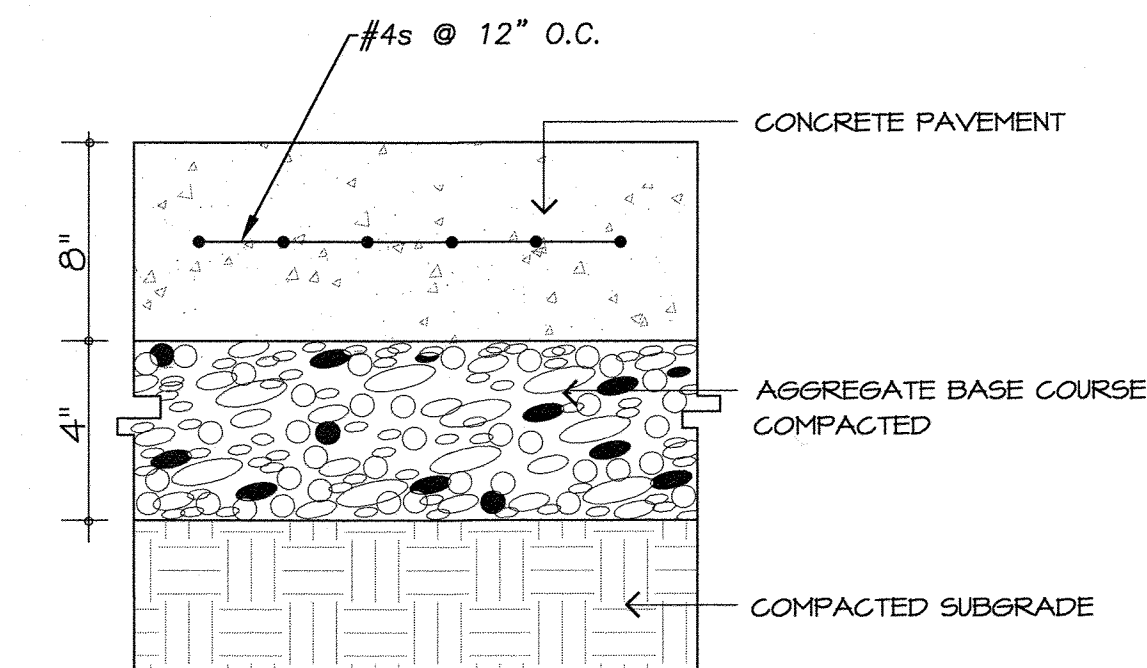


FINAL PAVEMENT SECTION IS PROVIDED BY GEO-TECHNICAL ENGINEER BASED SITE SPECIFIC GEO-TECHNICAL REPORT

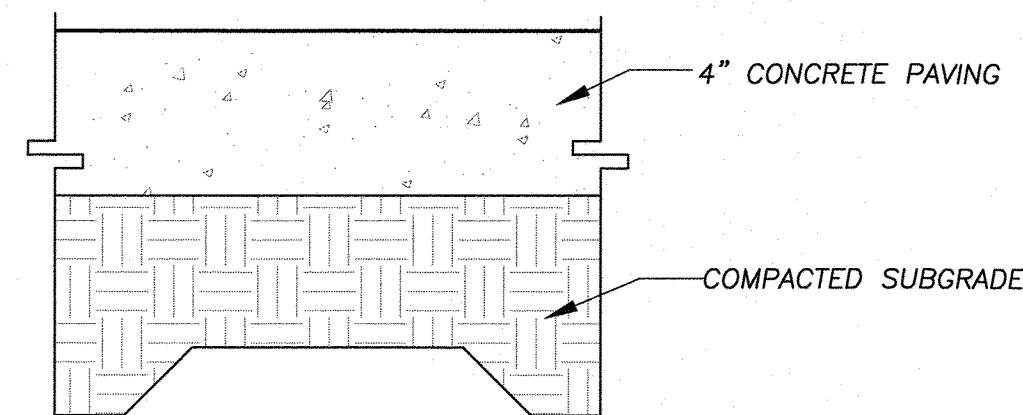
3/C700
ASPHALT PAVING
NTS

NOTES:

- ALL CONCRETE TO 4000 PSI, PROPERLY AIR ENTRAINED FOR EXTERIOR GRADE CONCRETE MIXES.
- CABC BASE AND SOIL SUBGRADE TO BE COMPACTED TO 98% OF THE ASTM D-698 STD. PROCTOR MDD AND PROOFROLLED AND APPROVED BY GEOTECHNICAL PERSONNEL.



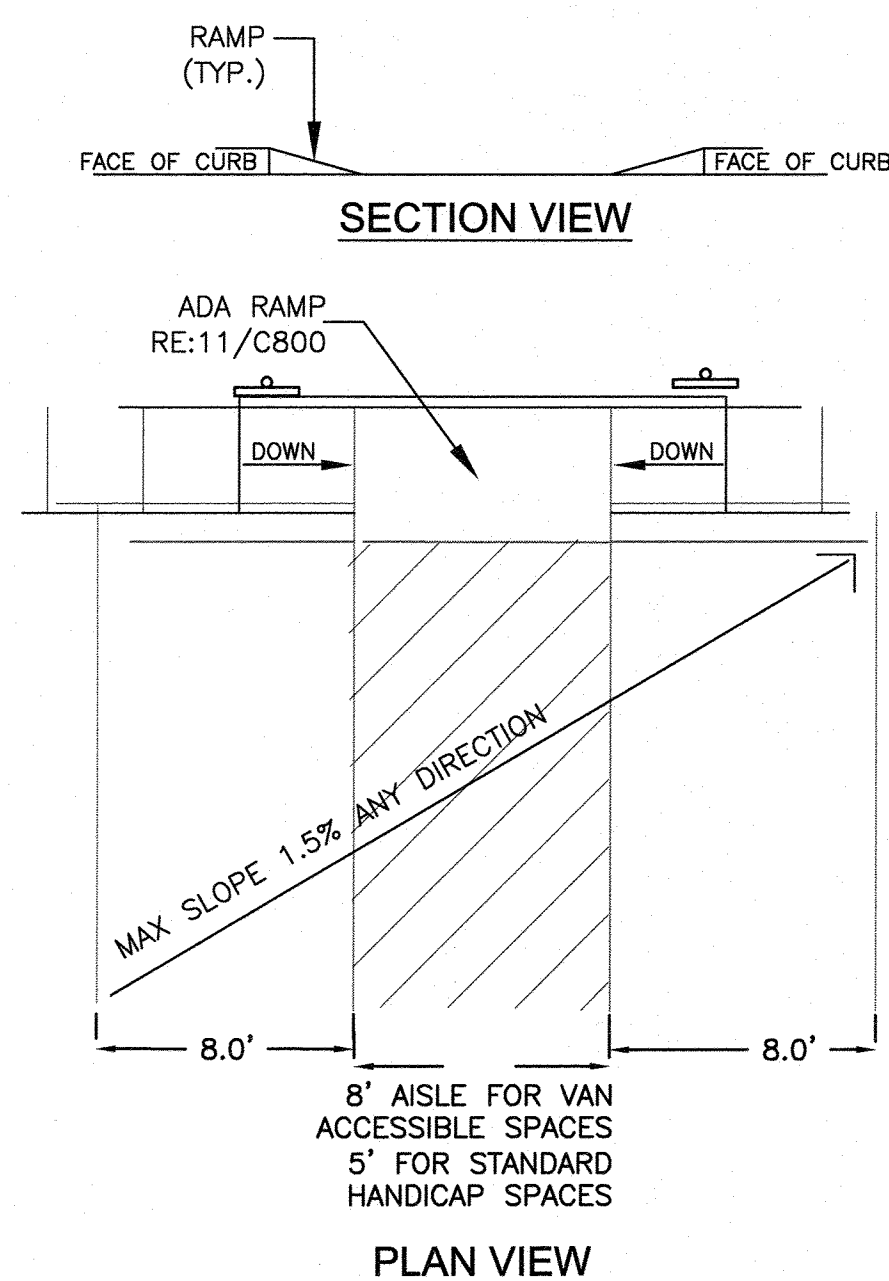
4/C700
HEAVY DUTY CONCRETE VEHICULAR PAVING
NTS



NOTES:

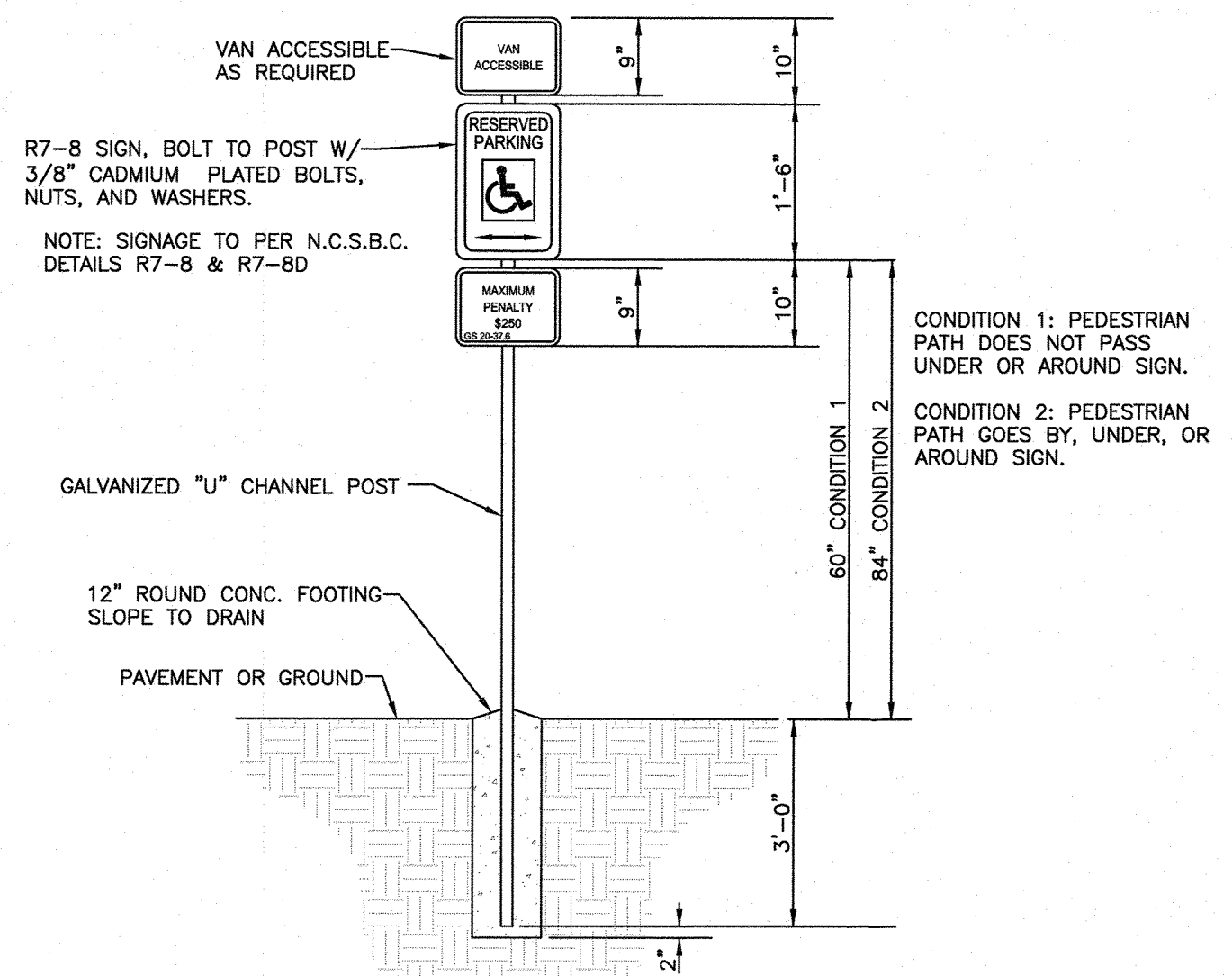
- ALL CONCRETE 3000 PSI.
- ALL SIDEWALKS SHALL BE CONSTRUCTED WITH TOOLED 1/4" EDGE RADIUS.
- BROOM FINISH
- SIDEWALKS ARE TO HAVE A MAXIMUM CROSS SLOPE OF 2.0%.

5/C700
CONCRETE SIDEWALK
NTS



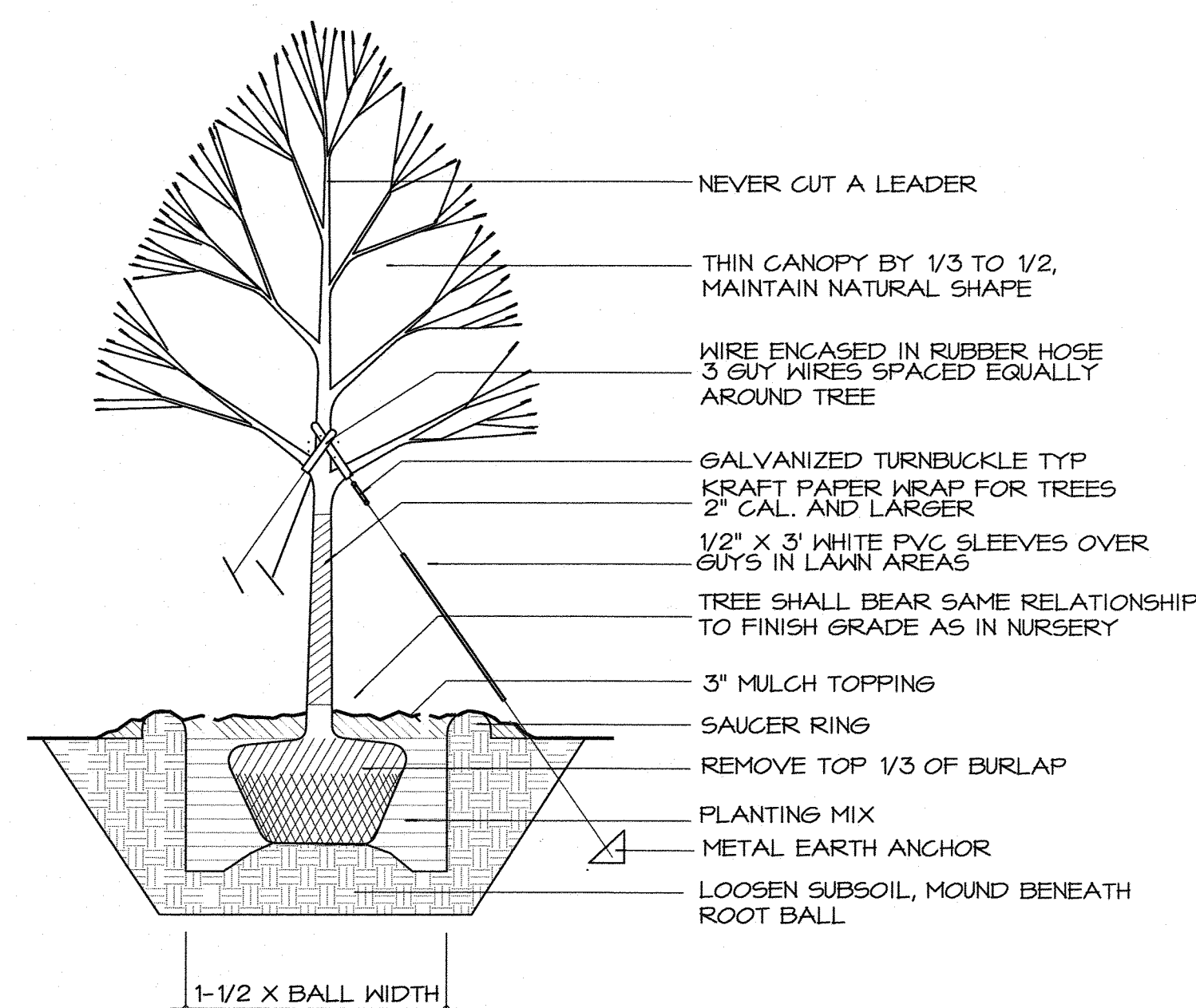
8/C700
HANDICAP PARKING
NTS

6/C700
WHEEL STOP
NTS

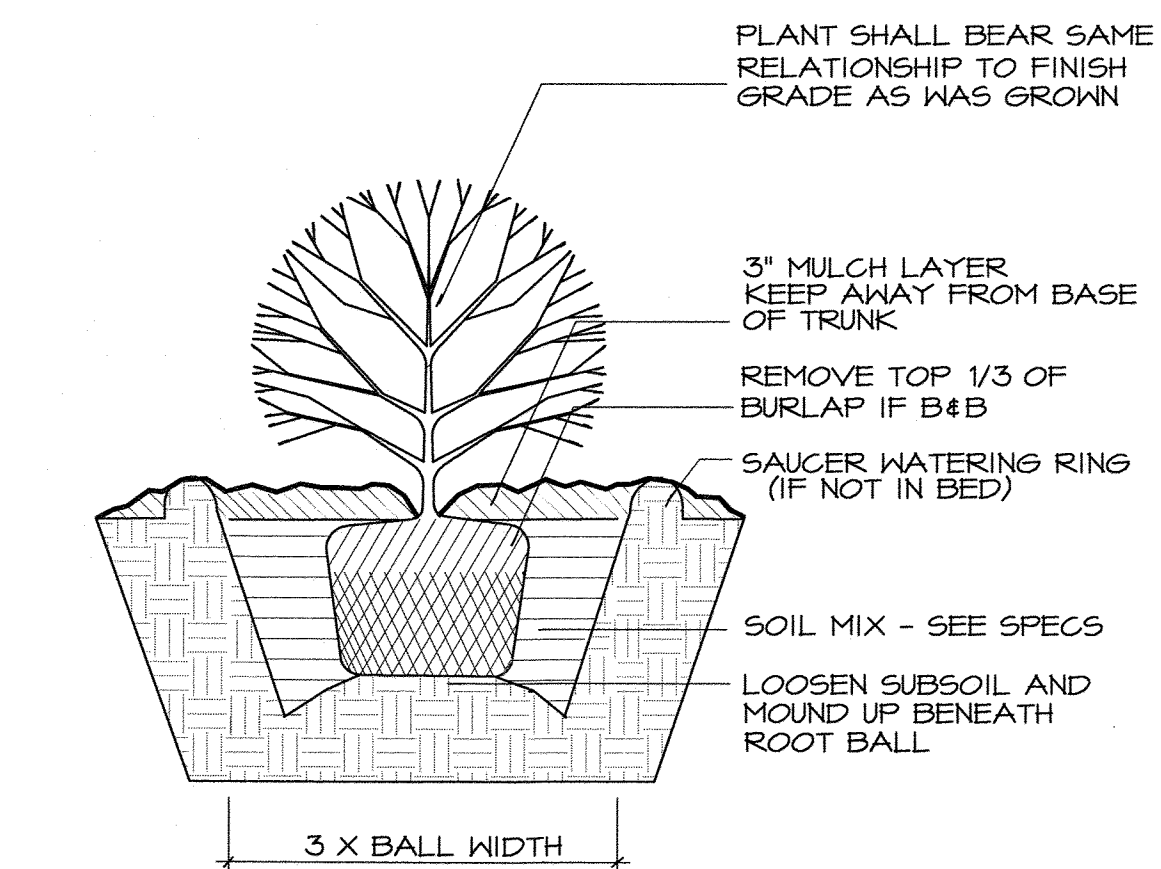
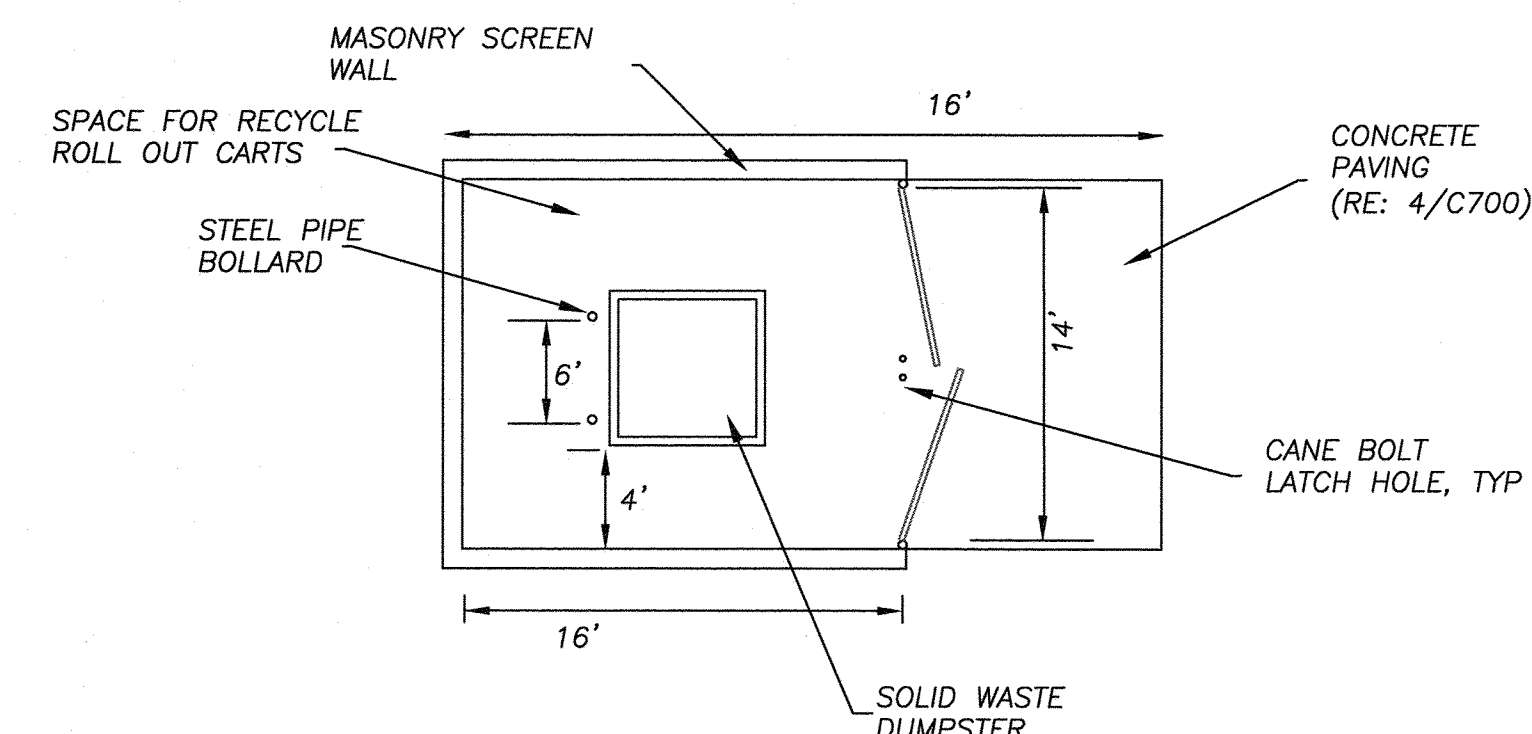


GENERAL NOTES:
 1. REGARDLESS OF AGE, ALL ACCESSIBLE SPACES SHALL BE IDENTIFIED BY ABOVE-GROUND SIGNS ONLY.
 2. NEW SPACES SHALL NOT USE GROUND-PAINTED SYMBOLS.
 3. ACCESSIBLE SPACES ARE REQUIRED TO BE STRIPED OFF ONLY; BLUE COLORING IS NOT NECESSARY NOR REQUIRED.
 4. STRIPING IS WHITE ON DARK PAVEMENT; BLACK ON LIGHT PAVEMENT. (N.C.D.O.T.)

9/C700
TREE PLANTING DETAIL
NTS



7/C700
DUMPSTER ENCLOSURE
NTS

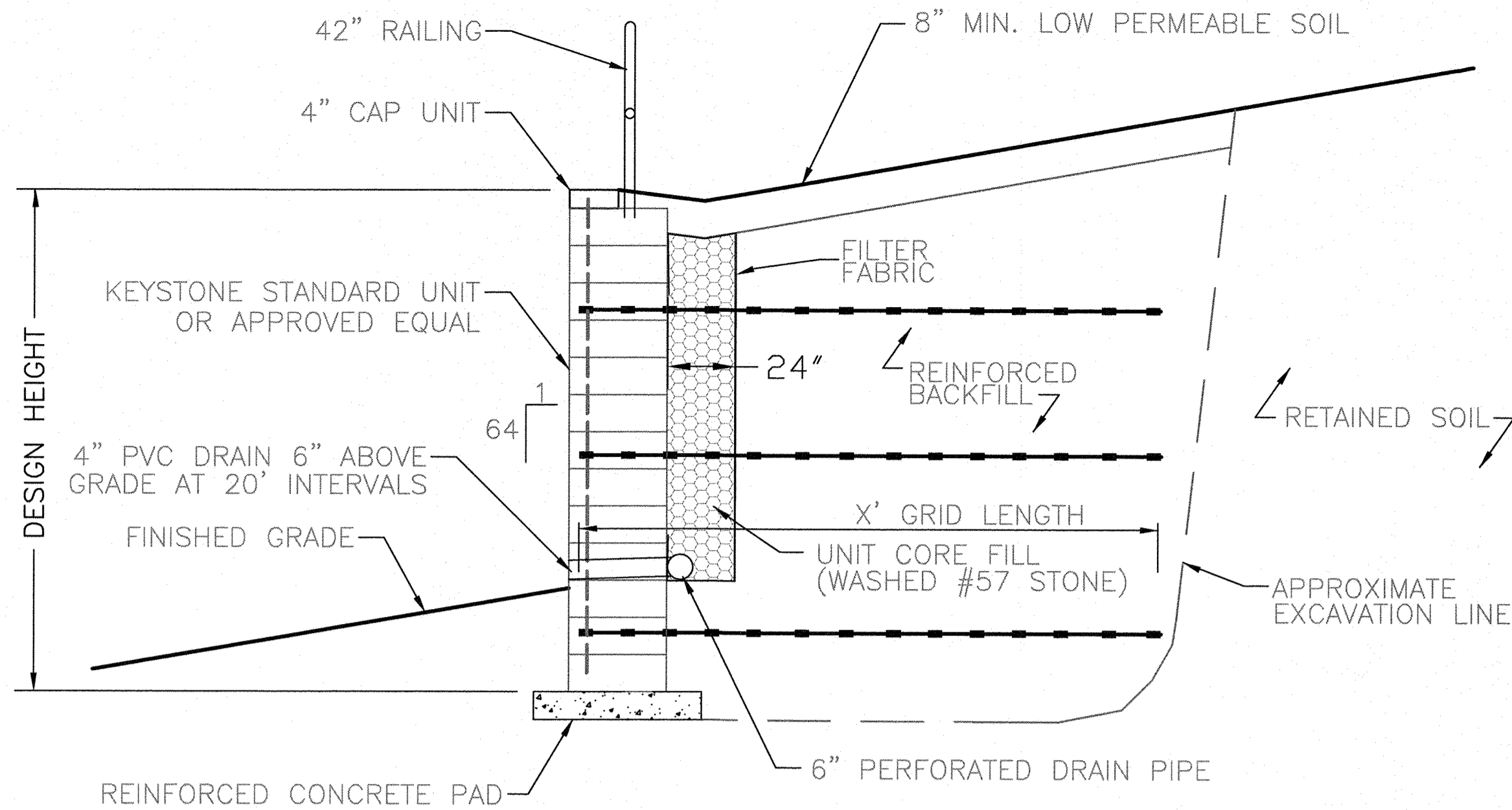


10/C700
SHRUB PLANTING DETAIL
NTS

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 |

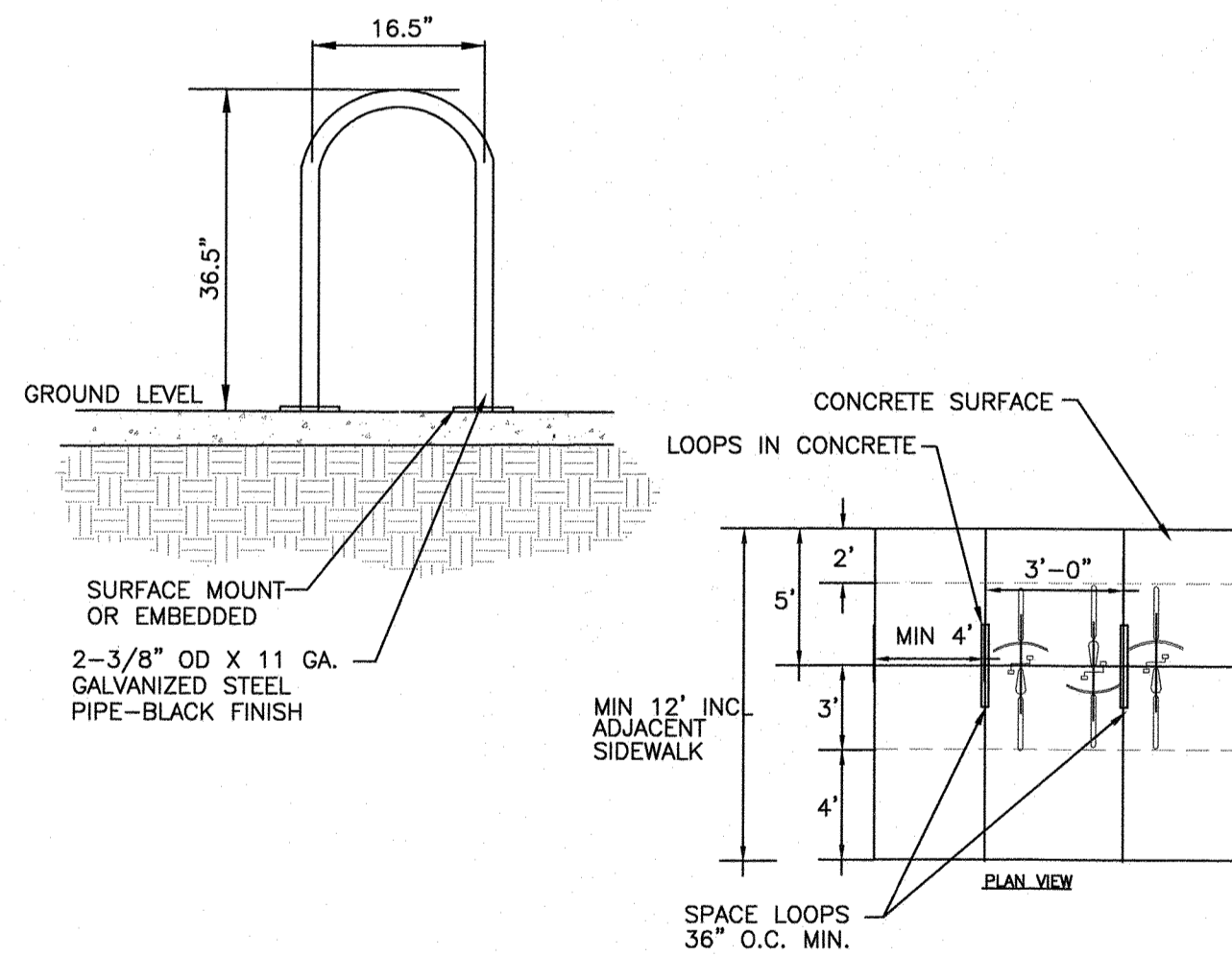


TYPICAL REINFORCED SECTION
STANDARD UNIT - NEAR VERTICAL SETBACK

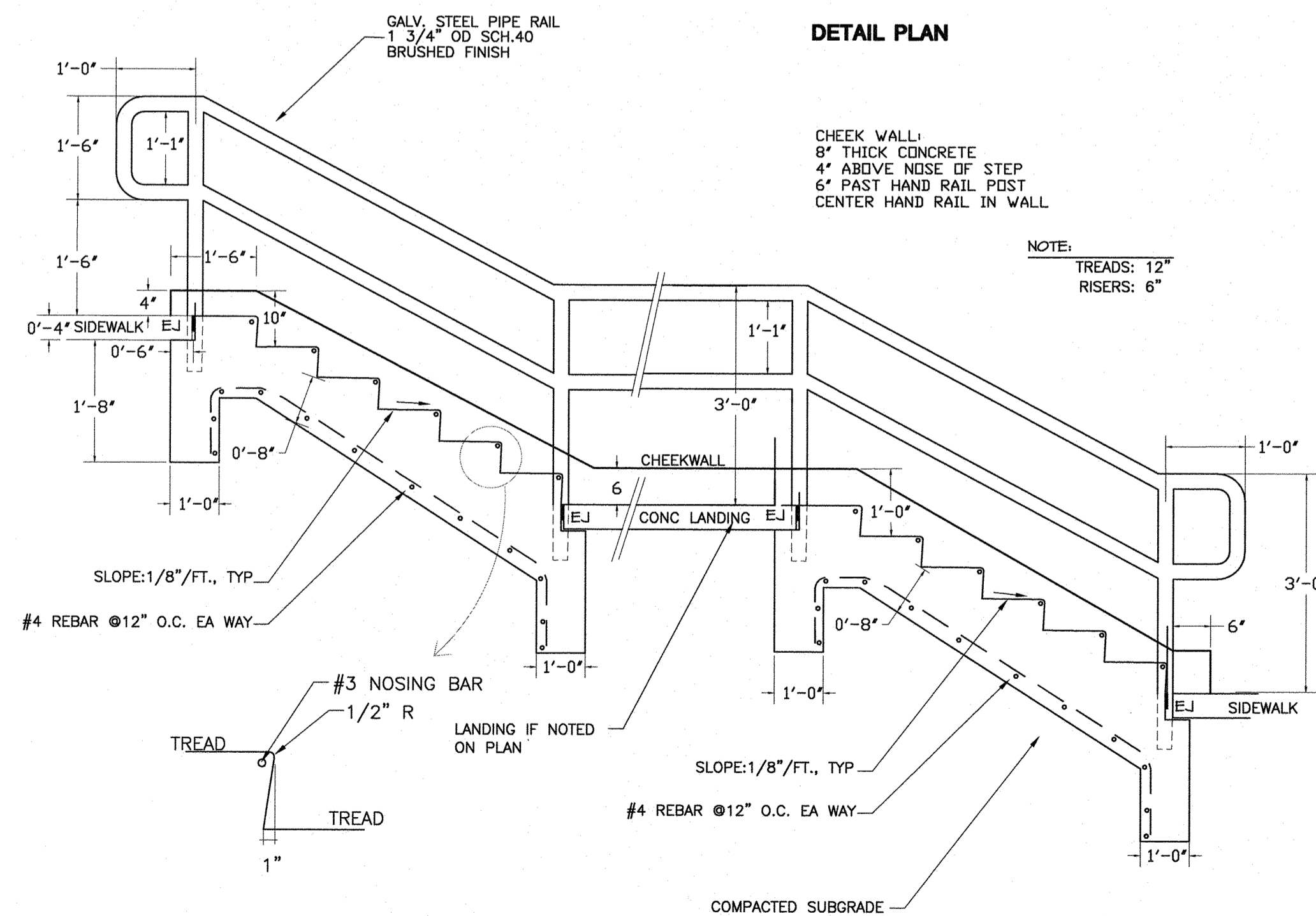
- NOTES:
1. THIS DETAIL IS SCHEMATIC. CONTRACTOR TO PROVIDE DESIGN FOR ALL SEGMENTAL RETAINING WALLS SEALED BY A NCP. COLOR WILL BE SELECTED BY OWNER.
 2. BLOCKOUT WALL FOR PIPES AND WALL DRAINS.
 3. MIN. BEARING CAPACITY BELOW FOOTING = 2500 PFS.
 4. ENGINEER WILL INSPECT WALL DRAINAGE. GEOTECHNICAL REP WILL INSPECT WALL BACKFILL.
 5. CONTRACTOR WILL PROVIDE ENGINEER WITH A MINIMUM OF 24 HOURS NOTICE FOR INSPECTIONS.
 6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE RAILING FOR APPROVAL BY THE ENGINEER PRIOR TO FABRICATION OR INSTALLATION. COLOR TO BE SELECTED BY OWNER.

1/C701
SEGMENTAL RETAINING WALL
NTS

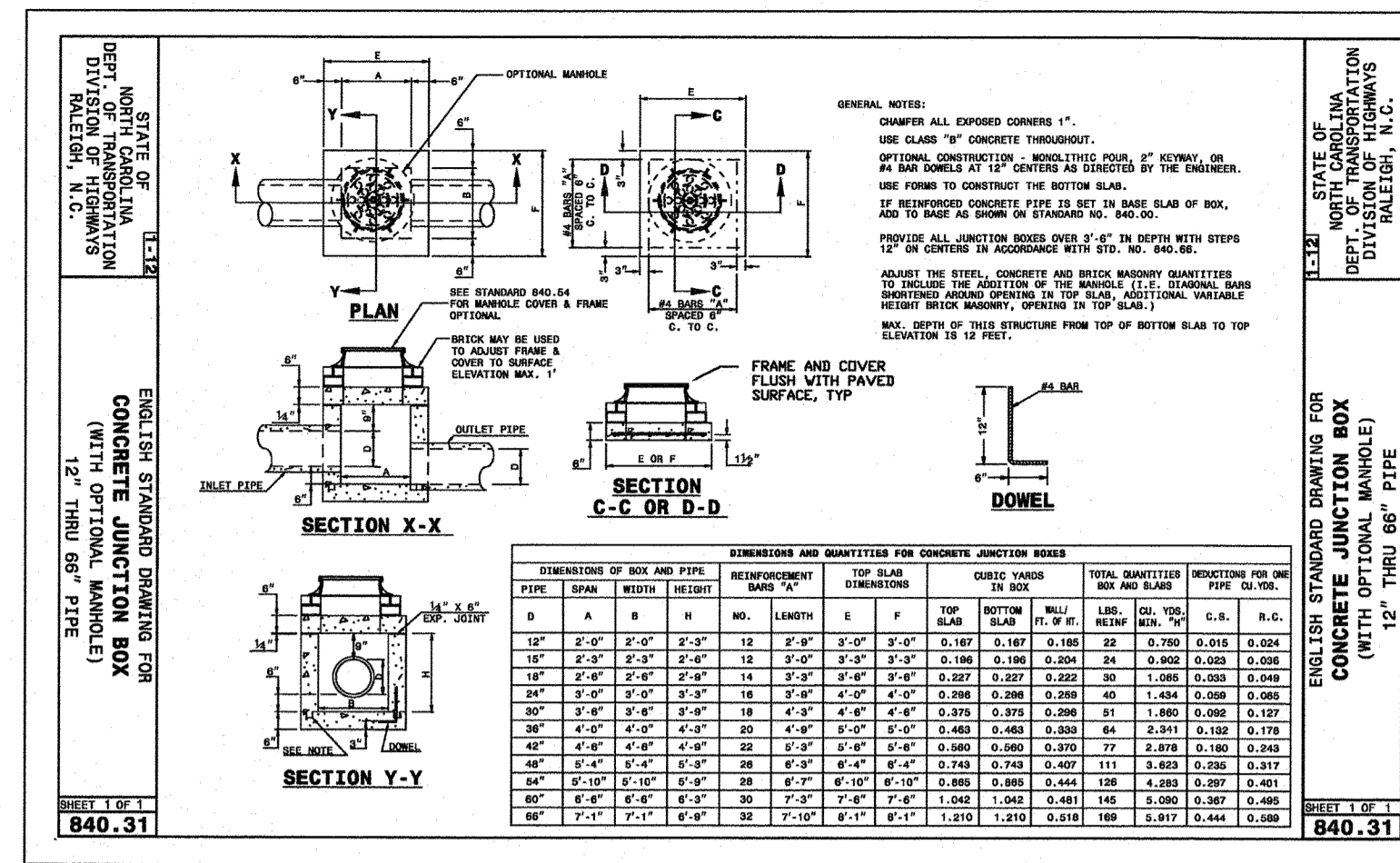
- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.



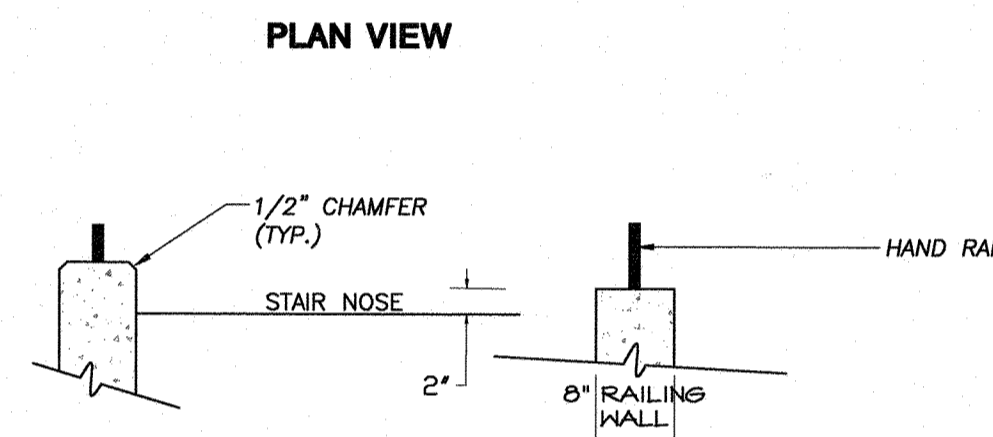
3/C701
BICYCLE RACK
NTS



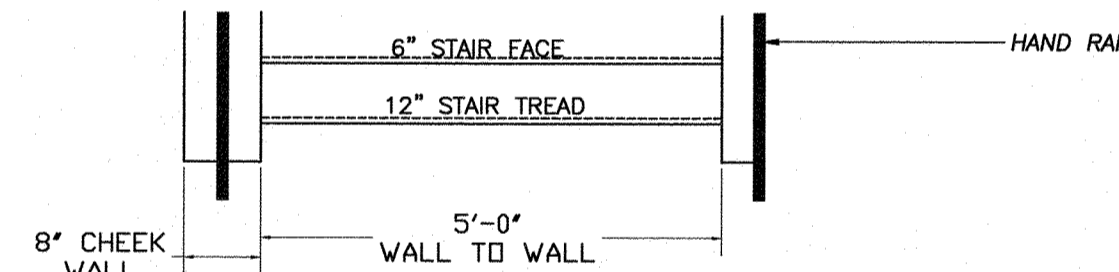
4/C701
CONCRETE STEPS WITH RAILING
NTS



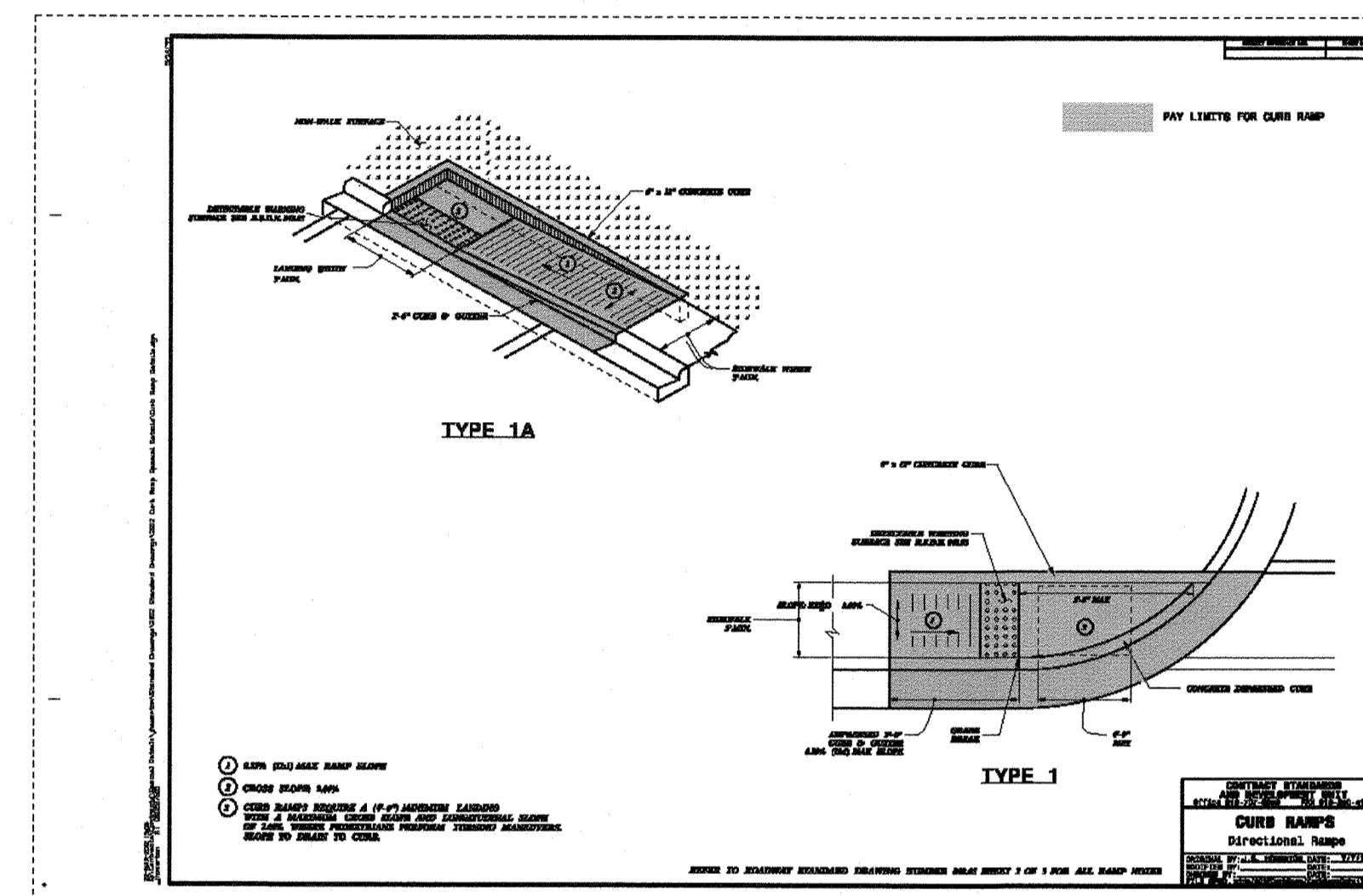
2/C701
4' X 4' JUNCTION BOX
NTS



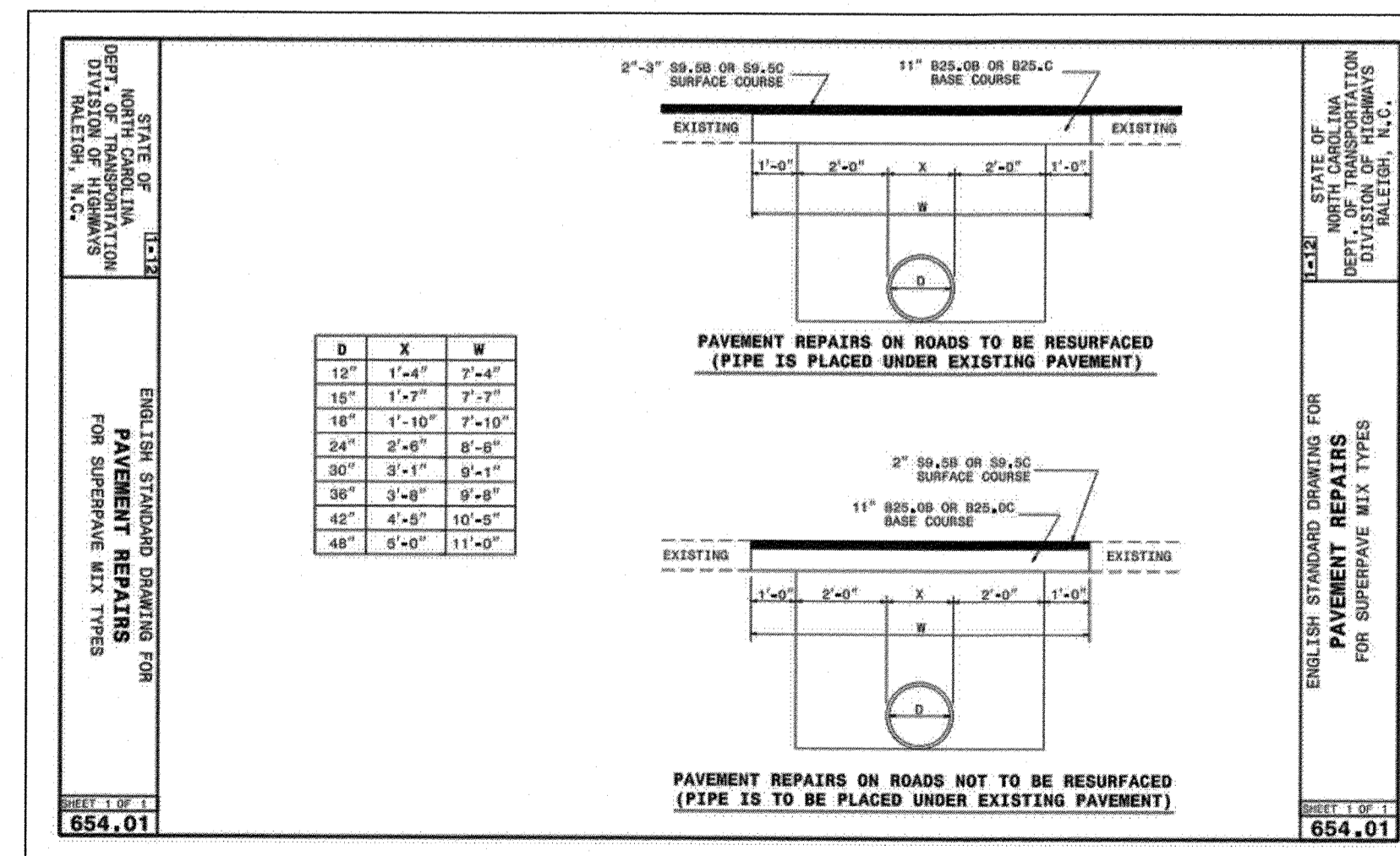
DETAIL SECTION



DETAIL PLAN



5/C701
NCDOT CURB RAMPS
NTS



6/C701
NCDOT PAVEMENT REPAIR
NTS



Coulter
Jewell
Thames

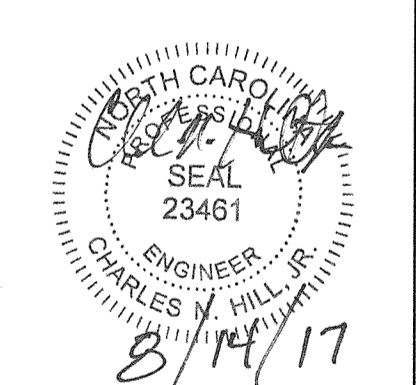
111 West Main Street
Durham, N.C. 27701
p 919.682.0368
f 919.688.5646
www.cjtpa.com

Project:

SECU
Family House
Expansion

123 Old Mason Farm Rd.
Chapel Hill, NC 27517

PIN:
9788543697



NOT ISSUED FOR
CONSTRUCTION

Job Number: 1122b

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| | 8-14-17 SUP revisions to Town comments |

SPECIAL USE PERMIT

Sheet Title:

SITE
DETAILS

Sheet Number

C701



**Coulter
Jewell
Thames**

111 West Main Street
Durham, N.C. 27701
p 919.682.0368
f 919.688.5646
www.cjtpa.com

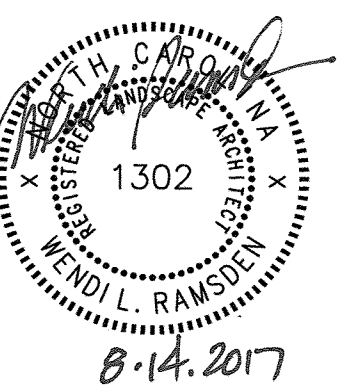
ENGINEERING - PLANNING - LANDSCAPE ARCHITECTURE
NC BOARD OF EXAMINERS FOR ENGINEERS & SURVEYORS LICENSE NO. C-10269

Project:

**SECU
Family House
Expansion**

123 Old Mason Farm Rd.
Chapel Hill, NC 27517

PIN:
9788543697



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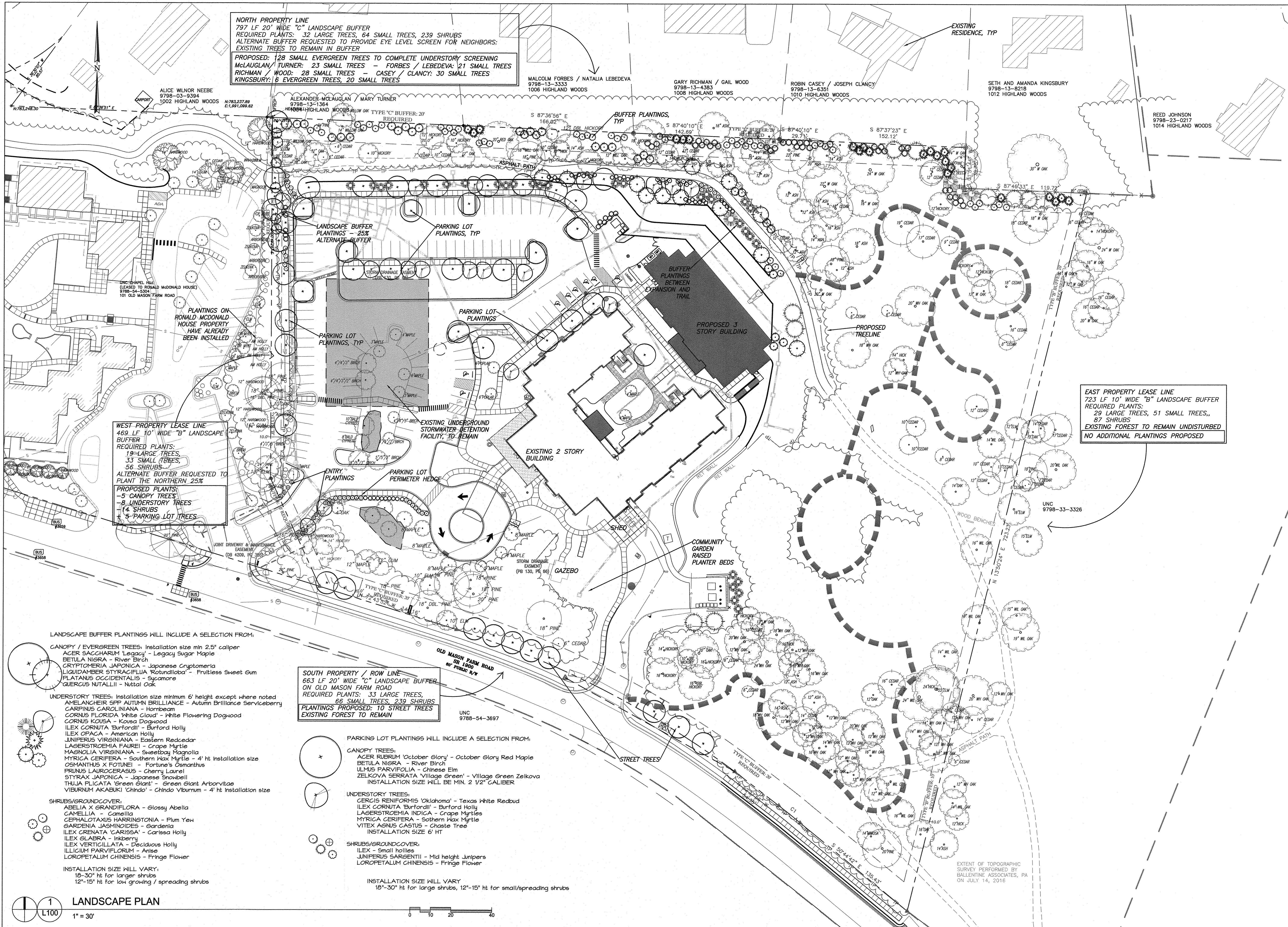
SPECIAL USE PERMIT

Sheet Title:

**LANDSCAPE
PLAN**

Sheet Number

L100



NORTH PROPERTY LINE
797 LF 20' WIDE "C" LANDSCAPE BUFFER
REQUIRED PLANTS: 32 LARGE TREES, 64 SMALL TREES, 239 SHRUBS
ALTERNATE BUFFER REQUESTED TO PROVIDE EYE LEVEL SCREEN FOR NEIGHBORS:
EXISTING TREES TO REMAIN IN BUFFER
PROPOSED: 128 SMALL EVERGREEN TREES TO COMPLETE UNDERSTORY SCREENING
McLAUGHLIN / TURNER: 23 SMALL TREES - FORBES / LEBEDEVA: 21 SMALL TREES
RICHMAN / WOOD: 28 SMALL TREES - CASEY / CLANCY: 30 SMALL TREES
KINGSBURY: 6 EVERGREEN TREES, 20 SMALL TREES

WEST PROPERTY LEASE LINE
469 LF 10' WIDE "B" LANDSCAPE BUFFER
REQUIRED PLANTS:
19 LARGE TREES,
33 SMALL TREES,
56 SHRUBS
ALTERNATE BUFFER REQUESTED TO PLANT THE NORTHERN 25%
PROPOSED PLANTS:
- 5 CANOPY TREES
- 8 UNDERSTORY TREES
- 14 SHRUBS
- 5 PARKING LOT TREES

EAST PROPERTY LEASE LINE
723 LF 10' WIDE "B" LANDSCAPE BUFFER
REQUIRED PLANTS:
29 LARGE TREES, 51 SMALL TREES,
87 SHRUBS
EXISTING FOREST TO REMAIN UNDISTURBED
NO ADDITIONAL PLANTINGS PROPOSED

SOUTH PROPERTY / ROW LINE
663 LF 20' WIDE "C" LANDSCAPE BUFFER
ON OLD MASON FARM ROAD
REQUIRED PLANTS: 33 LARGE TREES,
66 SMALL TREES, 239 SHRUBS
PLANTINGS PROPOSED: 10 STREET TREES
EXISTING FOREST TO REMAIN

LANDSCAPE BUFFER PLANTINGS WILL INCLUDE A SELECTION FROM:

- CANOPY / EVERGREEN TREES: Installation size min 2.5" caliper
ACER SACCHARUM 'Legacy' - Legacy Sugar Maple
BETULA NIGRA - River Birch
CRYPTOMERIA JAPONICA - Japanese Cryptomeria
LIQUIDAMBER STYRACIFLUA 'Rotundiloba' - Fruitless Sweet Gum
PLATANUS OCCIDENTALIS - Sycamore
QUERCUS NUTALLII - Nuttall Oak

- UNDERSTORY TREES: Installation size minimum 6' height except where noted
AMELANCHIER SPP AUTUMN BRILLIANCE - Autumn Brilliance Serviceberry
CARPINUS CAROLINIANA - Hornbeam
CORNUS FLORIDA 'White Cloud' - White Flowering Dogwood
CORNUS KOUSA - Kousa Dogwood
ILEX CORNUTA 'Burfordii' - Burford Holly
ILEX OPACA - American Holly
JUNIPERUS VIRGINIANA - Eastern Redcedar
LAGERSTROEMIA FAUREI - Grape Myrtle
MAGNOLIA VIRGINIANA - Sweetbay Magnolia
MYRTICA CERIFERA - Southern Wax Myrtle - 4' ht installation size
OSMANTHUS X FOTUNEI - Fortune's Osmanthus
PRUNUS LAUROCERCASUS - Cherry Laurel
STYRAX JAPONICA - Japanese Snowbell
THUJA PLICATA 'Green Giant' - Green Giant Arborvitae
VIBURNUM AKABUKI 'Chindo' - Chindo Viburnum - 4' ht installation size

- SHRUBS/GROUNDCOVER:
ABELIA X GRANDIFLORA - Glossy Abelia
CAMELLIA - Camellia
CEPHALOTAXUS HARRINGTONIA - Plum Yew
GARDENIA JASMINOIDES - Gardenia
ILEX GRENATA 'CARISSA' - Carissa Holly
ILEX GLABRA - Inksberry
ILEX VERTICILLATA - Deciduous Holly
ILLICUM PARVIFLORUM - Anise
LOROPETALUM CHINENSIS - Fringe Flower

INSTALLATION SIZE WILL VARY:
18'-30' ht for larger shrubs
12'-15' ht for low growing / spreading shrubs

PARKING LOT PLANTINGS WILL INCLUDE A SELECTION FROM:

- CANOPY TREES:
ACER RUBRUM 'October Glory' - October Glory Red Maple
BETULA NIGRA - River Birch
ULMUS PARVIFOLIA - Chinese Elm
ZELKOVA SERRATA 'Village Green' - Village Green Zelkova
INSTALLATION SIZE WILL BE MIN. 2 1/2" CALIBER

- UNDERSTORY TREES:
CERCIS RENIFORMIS 'Oklahoma' - Texas White Redbud
ILEX CORNUTA 'Burfordii' - Burford Holly
LAGERSTROEMIA INDICA - Grape Myrtles
MYRTICA CERIFERA - Southern Wax Myrtle
VITEX AGNUS CASTUS - Chaste Tree
INSTALLATION SIZE 6' HT

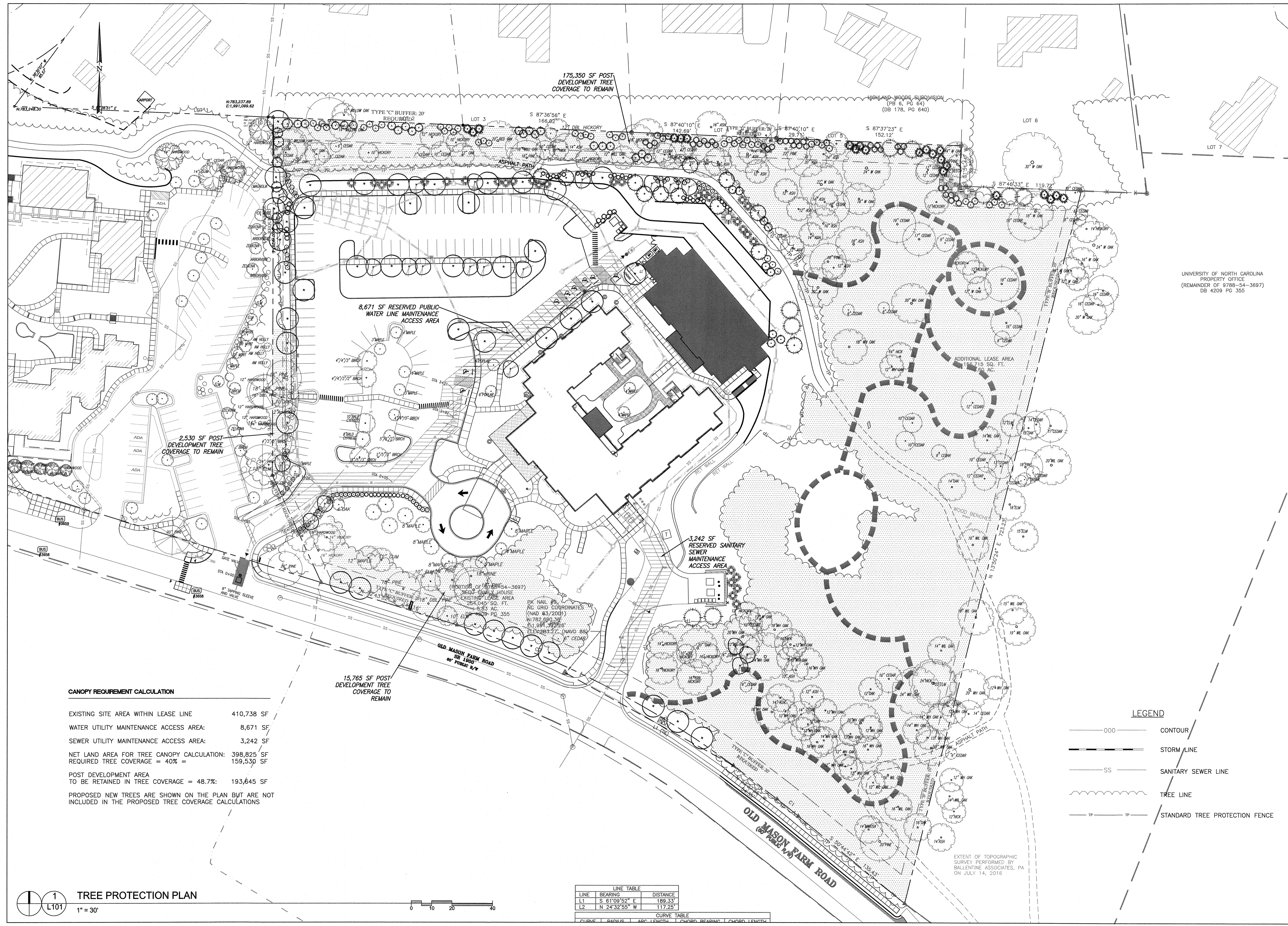
- SHRUBS/GROUNDCOVER:
ILEX - Small hollies
JUNIPERUS SARGENTII - Mid height Junipers
LOROPETALUM CHINENSIS - Fringe Flower

INSTALLATION SIZE WILL VARY
18'-30' ht for large shrubs, 12'-15' ht for small/spreading shrubs

LANDSCAPE PLAN

1" = 30'

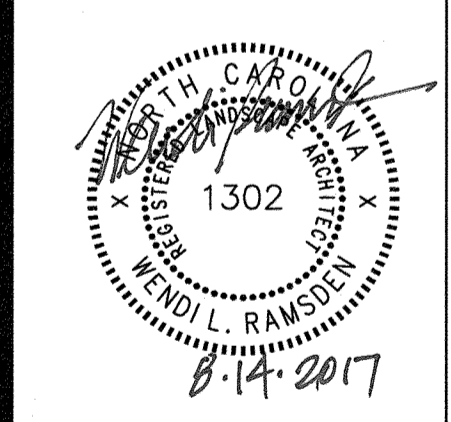




UNIVERSITY OF NORTH CAROLINA
 PROPERTY OFFICE
 (REMAINDER OF 9788-54-3697)
 DB 4209 PG 355

Project:
SECU Family House Expansion
 123 Old Mason Farm Rd.
 Chapel Hill, NC 27517

PIN:
 9788543697



NOT ISSUED FOR CONSTRUCTION

Job Number: 1122b

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| Drawn | WLR, MTC |
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SPECIAL USE PERMIT

Sheet Title:

TREE PROTECTION PLAN
 Sheet Number
L101

CANOPY REQUIREMENT CALCULATION

| | |
|--|------------|
| EXISTING SITE AREA WITHIN LEASE LINE | 410,738 SF |
| WATER UTILITY MAINTENANCE ACCESS AREA: | 8,671 SF |
| SEWER UTILITY MAINTENANCE ACCESS AREA: | 3,242 SF |
| NET LAND AREA FOR TREE CANOPY CALCULATION: | 398,825 SF |
| REQUIRED TREE COVERAGE = 40% = | 159,530 SF |
| POST DEVELOPMENT AREA TO BE RETAINED IN TREE COVERAGE = 48.7%: | 193,645 SF |
| PROPOSED NEW TREES ARE SHOWN ON THE PLAN BUT ARE NOT INCLUDED IN THE PROPOSED TREE COVERAGE CALCULATIONS | |

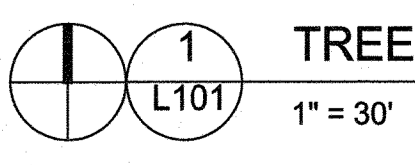
TREE PROTECTION PLAN

| LINE TABLE | | |
|------------|---------------|----------|
| LINE | BEARING | DISTANCE |
| L1 | S 61°09'52" E | 189.33' |
| L2 | N 24°32'55" W | 117.25' |

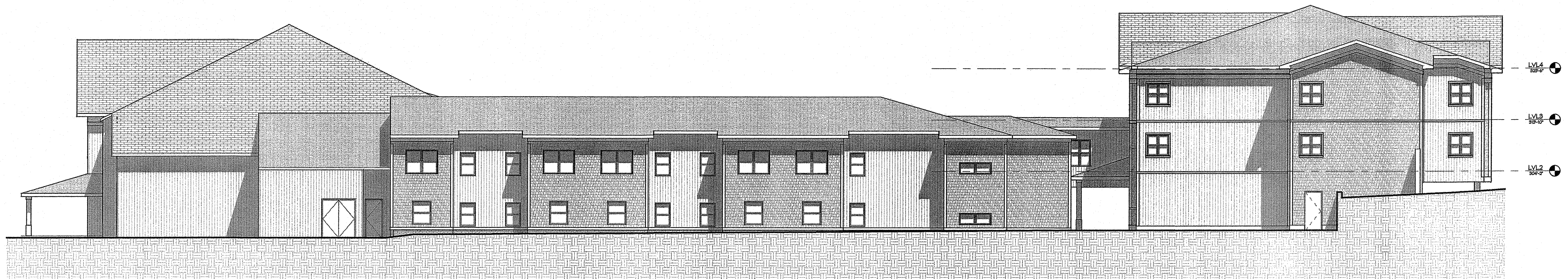
| CURVE TABLE | | | | |
|-------------|--------|------------|---------------|--------------|
| CURVE | RADIUS | ARC LENGTH | CHORD BEARING | CHORD LENGTH |
| | | | | |

LEGEND

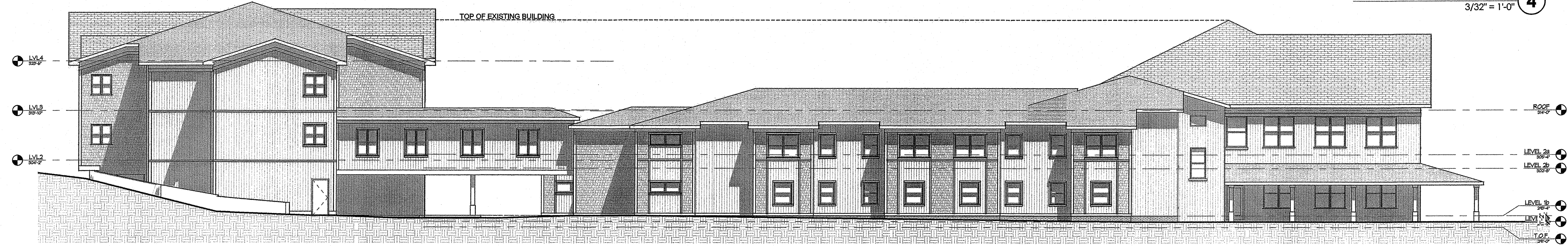
- 000 CONTOUR
- STORM LINE
- SS SANITARY SEWER LINE
- TREE LINE
- TP TP STANDARD TREE PROTECTION FENCE



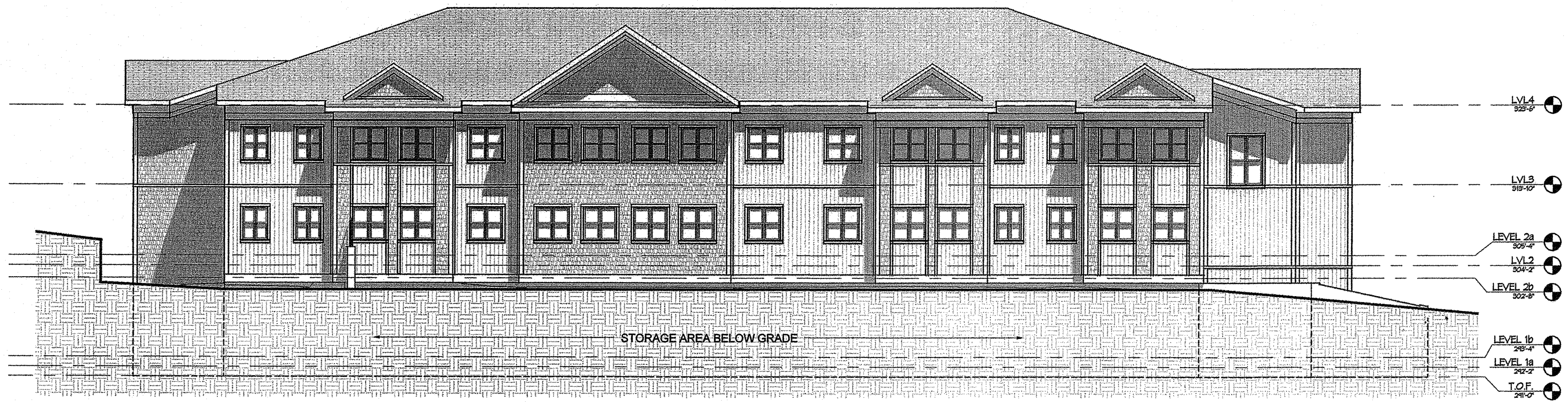
EXTENT OF TOPOGRAPHIC SURVEY PERFORMED BY BALLENTINE ASSOCIATES, PA ON JULY 14, 2016



RIGHT ELEVATION ④
3/32" = 1'-0"



LEFT ELEVATION ③
3/32" = 1'-0"



HILL ELEVATION ②
3/32" = 1'-0"



COURTYARD ELEVATION ①
3/32" = 1'-0"

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SHEET NAME:
BUILDING ELEVATIONS

PHASE:
SUP Review

REVISIONS:

ISSUE DATE: 03/10/16
PROJECT #: 15084
DRAWN BY: SAL

SHEET NUMBER
A1