# CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL FOR THE PRESERVE AT MOODY FARM

1ST CD SUBMITTAL: 12-02-2024
2ND CD SUBMITTAL: 02-03-2025
3RD CD SUBMITTAL: 04-01-2025 (1) (2)

SITUATED AT

0 ROLESVILLE ROAD AND 0
AMAZON TRAIL

## WAKE COUNTY, NORTH CAROLINA

| SITE INFORMATION | |
|---|---|
| OWNER | HOLLINGSWORTH, W.C., JR. AND HOLLINGSWORTH, LAURA W.<br>P.O.BOX 61 LOUISBURG NC 27549-0061<br>AND<br>MOODY, BENNY LAWRENCE AND MOODY, JEFFREY LYNN<br>1716 ROLESVILLE RD, WAKE FOREST NC 27587-9677 |
| REAL ESTATE ID | 0048383 AND 0048422 |
| PIN NUMBERS | 1767284925 AND 1767284304 |
| DEED BOOK | DB:017552 PG:02100 AND DB:014297 PG:01583 |
| DEEDED ACREAGE | 51.78 AC |
| EXISTING ZONING | R-3 CZ |
| TOTAL PROJECT ACREAGE | 48.28 AC |
| GOVERNMENTAL USE | 0.48 AC |
| AREA IN LOTS | 24.69 AC |
| AREA IN ROW | 6.54 AC |
| EXISTING ROW | 0.27 AC |
| DEDICATED ROW | 0.14 AC |
| TOTAL LOTS | 82 |
| MIN LOT SIZE | 10,000 SF |
| MIN LOT WIDTH | 65' |
| FRONT SETBACK | 25' |
| REAR SETBACK | 25' |
| SIDE SETBACK | 10' |
| CORNER SETBACK | 25' |
| DENSITY | 1.6 UNIT/AC. |
| OPEN SPACE REQ. | 10% / 5 AC. |
| OPEN SPACE PROVIDED | 37% / 18.81 AC |
| ACTIVE REQUIRED | 2.5 AC (50% OF 5 AC) |
| ACTIVE SHOWN | 2.7 AC |
| LF OF PUBLIC STREETS | 5,531 LF |
| LIMITS OF DISTURBANCE | 39.27 |
| EXISTING IMPERVIOUS | 0.67 AC |
| PROPOSED IMPERVIOUS | 15.13 AC |
| RECEIVING WATER | HARRIS CREEK (1) (2) |
| STREAM INDEX | 27-26 |

GENERAL NOTES:
1. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL (1-800-632-4949) TO LOCATE ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES AND NOTIFY THE PROJECT ENGINEER (919-469-1101) OF ANY CONFLICTS.
3. ALL BOUNDARY AND FIELD TOPOGRAPHY PROVIDED BY WITHERS & RAVENEL.
4. THE ZONING ENTITLEMENTS ACHIEVED/FACILITATING THIS PRELIM PLAT IS MA 21-05, APPROVED 12-7-2021 AS TOWN BOARD AGENDA ITEM B.2 ON THE CONSENT AGENDA; IT INCLUDES 5 CONDITIONS AND A CONCEPT PLAN DRAWING.
5. PLEASE SEE APPROVED WITH MA 21-05 BY TOWN BOARD OF COMMISSIONERS - SHEET NUMBER MA.
6. OPEN SPACE LOTS AND SCM'S WILL BE OWNED AND MAINTAINED BY HOA.
7. ALL PROPOSED STREETS WILL BE DEDICATED TO TOWN AND THUS OWNED AND MAINTAINED BY TOWN.

ZONING CONDITIONS (CASE # MA-21-05)

1. PERMITTED USE LIMITED TO "DWELLING - SINGLE FAMILY."
2. ALL DWELLINGS TO BE CONSTRUCTED ON RAISED FOUNDATIONS WITH CRAWLSPACES. NO ON-SLAB CONSTRUCTION.
3.DEVELOPMENT TO INCORPORATE A PUBLIC GREENWAY AS SHOWN ON THE SKETCH PLAN INCORPORATING OPTION 2 TOGETHER WITH WAYFINDING SIGNAGE AND CONSTRUCTION OF A 10' OFF-SITE MULTI-USE PATH ALONG WOODLYN PARK DRIVE, CONNECTING THIS GREENWAY TO THE PROPOSED KALAS FALLS GREENWAY.
4. PRIOR TO COMPLETION OF THE ON-SITE GREENWAY, A 6' SOLID BOARD FENCE SHALL BE ERECTED ALONG THE PROPERTY BOUNDARY LINE FRONTING THE EASTERN TERMINUS OF THE GREENWAY AND BORDERING THE SHORE PROPERTY (PIN . 1767-38-1953) .
5. ON-SITE CONSTRUCTION SHALL NOT COMMENCE UNTIL THE KALAS FALLS ROLESVILLE ROAD WIDENING PROJECT IS COMPLETE.

| RALEIGH WATER INSPECTIONS QUANTITIES (SUBDIVISIONS AND SITE PLANS) | |
|---|---|
| PHASE NUMBER | PHASE 1 |
| NUMBER OF LOTS | 82 |
| NUMBER OF UNITS | 82 |
| PUBLIC WATER (LF) | 5,517 |
| PUBLIC SEWER (LF) | 6,985 |
| PRIVATE SEWER* (LF) | N/A |
| WATER SERVICE STUBS (QUANTITY) | 87 |
| SEWER SERVICE STUBS (QUANTITY) | 87 |
| AVERAGE DAILY FLOW PER PHASE** | 26,100 GPD |

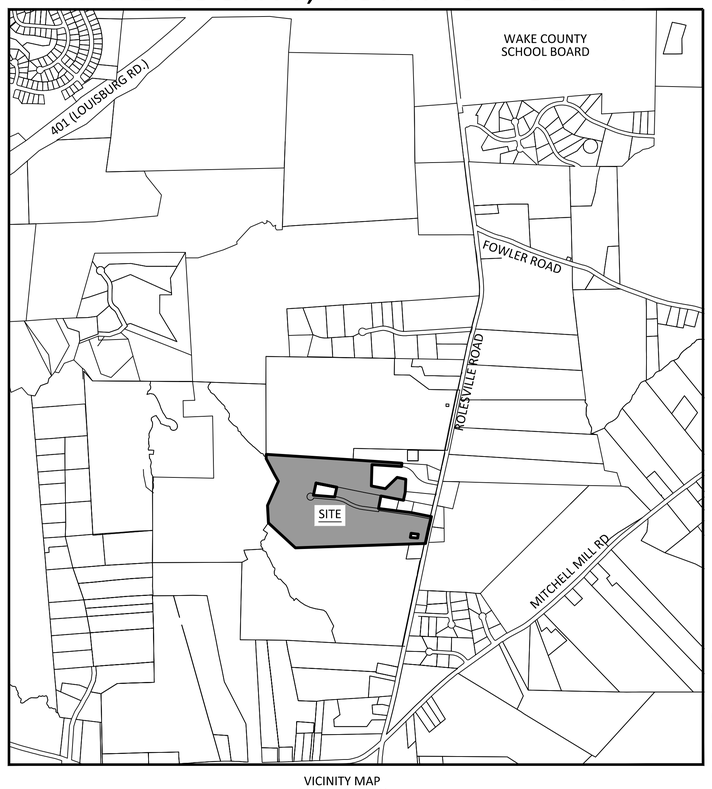
*SEWER MAINS AND MANHOLES AS PART OF A COLLECTION SYSTEM
**ENTIRE PROJECT FLOW. BASED ON 75 GPD PER BEDROOM FOR RESIDENTIAL (APARTMENTS, SINGLE FAMILY DWELLING, TOWNHOUSE, CONDOS), OR BASED ON 15A NCAC 0.2T.0114 WASTEWATER DESIGN FLOW RATES FOR COMMERCIAL AND INDUSTRIAL. THE METER SIZE MUST MACH DOMESTIC SERVICE SIZE (EXEMPTION - 3/4" SERVICE TAP WITH 5/8" METER)

***ATTENTION CONTRACTORS*** (1)

**The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Inspector at 919-996-3245 or https://cityworks.raleighnc.gov/pucontractors/New and schedule a Pre-construction meeting prior to beginning any construction.**
**Raleigh Water must be contacted at (919) 996-4540 at least twenty-four hours prior to beginning any work activity around critical water and sewer infrastructure.**

**Failure to notify the Divisions in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.**

**Failure to call for Inspection, install a downstream plug, have permitted plans on the jobsite, or any other violation of City of Raleigh Standards will result in a fine and possible exclusion from future work in the City of Raleigh.**




VICINITY MAP
SCALE: 1"=1000' (1)

THESE IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND THE STANDARD SPECIFICATIONS OF THE CITY OF RALEIGH, WAKE COUNTY, TOWN OF ROLESVILLE AND NCDOT.

| REQUIRED APPROVALS | |
|---|---|
| PERMIT | PERMIT NUMBER: |
| POND REMOVAL PERMIT | SEC-063778-2021 |
| TOWN OF ROLESVILLE PSP | PR 22-01 (1) (2) |
| TOWN OF ROLESVILLE CID | CID 24-09 |
| WAKE COUNTY EROSION CONTROL | ESC-137379-2024 |
| WAKE COUNTY STORMWATER | SWF-137381-2024 |
| CITY OF RALEIGH WATER | TBD |
| CITY OF RALEIGH SEWER | TBD |
| NCDOT 3-PARTY | E051-092-24-01477 |
| NCDOT DRIVEWAY | D051-092-24-00202 |

| | |
|---|---|
| PROPRTY OWNER: | HOLLINGSWORTH, W.C., JR. AND HOLLINGSWORTH, LAURA W.<br>P.O.BOX 61<br>LOUISBURG NC 27549-0061<br>PIN 1767284925<br>AND<br>MOODY, BENNY LAWRENCE AND MOODY, JEFFREY LYNN<br>1716 ROLESVILLE RD,<br>WAKE FOREST NC 27587-9677<br>PIN: 1767284304 |
| DEVELOPER: | CARUSO HOMES<br>CONTACT: CHISTY BECK<br>206 HIGH HOUSE RD STE 205<br>CARY, NC 27513<br>919-678-5698 |
| SURVEYOR: | WITHERS RAVENEL<br>CONTACT: MATT TIMLIN<br>115 MACKENAN DRIVE<br>CARY, NC 27511 919-469-3340 |
| BUFFER/WETLAND: | WITHERS RAVENEL<br>CONTACT: TROY BEASLEY<br>115 MACKENAN DRIVE<br>CARY, NC 27511 919-469-3340 |

**EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT**
**APPROVED**
EROSION CONTROL ☐ S-_____
STORMWATER MGMT. ☐ S-_____
FLOOD STUDY ☐ S-_____
DATE_____
ENVIRONMENTAL CONSULTANT SIGNATURE

NOTE:
TA 20-01 WAS ADAPTED 9-15-20, PERMITTING THE " DWELLING- SINGLE FAMILY DETACHED" USE IN THE R-3 DISTRICT, AND ESTABLISHED: MINIMUM LOT AREA OF 10,000 SF; MINIMUM LOT WIDTH 65'; FRONT YARD SETBACK OF 25'; SIDE YARD SETBACK OF 10'; CORNER YARD SETBACK OF 15'; REAR YARD SETBACK OF 25'

#1- Erosion control sheets should be added back into this submittal. While we understand Wake County is reviewing the plans, the Town of Rolesville also needs to be aware of and approve the erosion control measures of new developments. The approved CID plans need to be all inclusive so the Town inspector can enforce what is proposed, as well as the contractor can construct the required infrastructure from land disturbance to restoration.

| SHEET INDEX | |
|---|---|
| SHEET NUMBER | SHEET TITLE |
| CVR | COVER |
| C1.0 | OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN |
| C2.0 | GENERAL NOTES |
| C2.1 | GENERAL NOTES |
| C4.0 | OVERALL SITE PLAN |
| C4.1 | SITE PLAN A |
| C4.2 | SITE PLAN B |
| C4.3 | SITE PLAN C |
| C4.4 | SITE PLAN D |
| C4.5 | PHASING PLAN |
| C4.6 | OPEN SPACE AND LAND USE PLAN |
| C5.0 | OVERALL DRAINAGE PLAN |
| C5.1 | DRAINAGE PLAN A |
| C5.2 | DRAINAGE PLAN B |
| C5.3 | DRAINAGE PLAN C |
| C5.4 | DRAINAGE PLAN D |
| C6.0 | OVERALL UTILITIES PLAN |
| C6.1 | UTILITY PLAN A |
| C6.2 | UTILITY PLAN B |
| C6.3 | UTILITY PLAN C |
| C6.4 | UTILITY PLAN D |
| C7.0 | SCHEDULE |
| C7.1 | SCHEDULE |
| C8.0 | SCM 1 |
| C8.1 | SCM 2 |
| C8.2 | SCM 3 |
| C8.3 | SCM 4 |
| C8.4 | SCM 5 |
| C8.5 | CULVERT CROSSING |
| C9.0 | MULBERRY PLAN AND PROFILE |
| C9.1 | MULBERRY PLAN AND PROFILE |
| C10.0 | TANSLEY CREST LOOP PLAN AND PROFILE |
| C11.0 | VINTAGE VINERY CT PLAN AND PROFILE |
| C12.0 | CUL-DE-SAC AND STUB PLAN AND PROFILES |
| C13.0 | SEWER OUTFALL |
| C13.1 | SEWER OUTFALL |
| C13.2 | SEWER OUTFALL |
| C13.3 | SEWER OUTFALL |
| C14.0 | STORM OUTFALL PLAN AND PROFILES |
| C15.0 | GREENWAY PLAN AND PROFILE (1) |
| C15.1 | GREENWAY PLAN AND PROFILE |
| CD6 | UTILITY DETAILS |
| CD7 | UTILITY DETAILS |
| CD8 | UTILITY DETAILS |
| CD9 | UTILITY DETAILS |
| CD10 | UTILITY DETAILS |
| CD11 | DRAINAGE DETAILS |
| CD12 | DRAINAGE DETAILS |
| CD13 | SITE DETAILS |
| CD14 | SITE DETAILS |
| CD15 | SITE DETAILS |
| CD16 | SITE DETAILS |
| L1 | LANDSCAPE PLAN |
| L2 | BUFFER PLAN |
| L3 | PLANTING NOTES AND DETAILS |
| ES100 | OVERALL SITE LIGHTING PLAN - NO GRID (2) |
| ES101 | OVERALL SITE LIGHTING PLAN |

**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm


AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:02-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 045328
JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE


THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

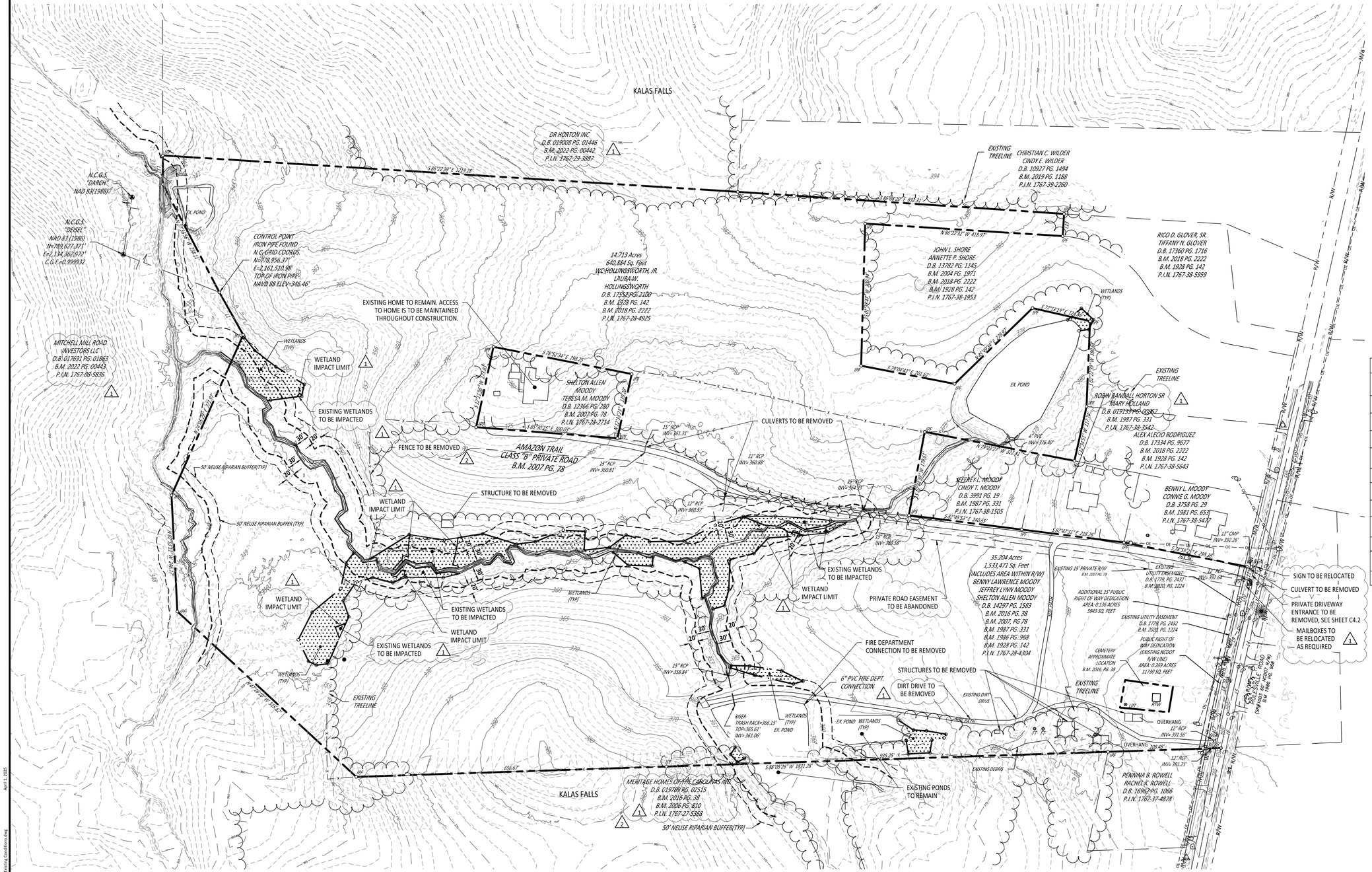

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**COVER**

SHEET NO.:
**CVR**

April 1, 2025
Z:\Jobs\21-002 Moody Development Tract\R2100021\dwg_Working Dwgs\Construction Set\01.01-CVR.dwg




| LINE TABLE | | |
|---|---|---|
| LINE | BEARING | DISTANCE |
| L1 | N 29°16'51" W | 103.15' |
| L2 | S 13°14'13" W | 30.80' |
| L3 | S 13°11'52" W | 75.23' |
| L4 | S 12°45'00" W | 105.78' |
| L5 | S 12°20'07" W | 102.35' |
| L6 | S 11°47'14" W | 73.35' |
| L7 | N 11°47'14" E | 80.81' |
| L8 | N 12°20'07" E | 102.60' |
| L9 | N 12°45'00" E | 106.01' |
| L10 | N 13°11'52" E | 75.35' |
| L11 | N 13°14'13" E | 29.69' |
| L12 | N 00°09'21" W | 60.99' |
| L13 | S 03°23'06" W | 47.18' |

GRAPHIC SCALE

100 0 50 100 200 400

( IN FEET )
1 inch =100

GENERAL NOTES:

1. TOPO SHOWN ON THIS SHEET IS 1' CONTOURS AND IS FIELD TOPOGRAPHY.
2. ACCESS TO EXISTING HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED DURING CONSTRUCTION.


AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:09-04'00'

NORTH CAROLINA
065.28
PROFESSIONAL ENGINEER
JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

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# THE PRESERVE AT MOODY FARM

CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

## OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET NO.:

**C1.0**

North Carolina 811
811 it's the law!

*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

April 1, 2025

Z:\Jobs\21-002 Moody Development Tract (R21000)\dwg_Working Dwgs\Construction Set\1.0-Existing Conditions.dwg

## GENERAL NOTES:

A. ALL TREE PROTECTION FENCING SHALL BE MAINTAINED UNTIL ALL SITE WORK HAS BEEN COMPLETED. THE FENCING SHALL BE REMOVED ONCE THE FINAL SITE INSPECTION AND ACCEPTANCE HAS BEEN GRANTED BY THE WAKE COUNTY EROSION CONTROL INSPECTOR.
B. WITHIN THE SIGHT TRIANGLES SHOWN ON ALL SITE PLAN AND LANDSCAPE PLAN SHEETS, NO OBSTRUCTION BETWEEN 2 FEET AND 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION SHALL BE LOCATED IN WHOLE OR PART. OBSTRUCTIONS INCLUDE, BUT ARE NOT LIMITED TO, ANY BERM, FOLIAGE, FENCE, WALL SIGN, PARKED CAR, OR OTHER OBJECT. ALL STREET TREES FALLING WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN SHALL BE LIMBED UP BETWEEN 2 FEET AND 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION.
C. MINIMUM CORNER CLEARANCE FROM THE CURB LINE OF INTERSECTING STREETS SHALL BE AT LEAST 20 FEET FROM THE POINT OF TANGENCY OF THE CURB. NO DRIVEWAYS SHALL ENCROACH ON THIS MINIMUM CORNER CLEARANCE.
D. ALL STREETS SHOWN ON THESE PLANS HAVE FULL WIDTH OF RIGHT-OF-WAY CLEARED AND GRADED WITHIN 50 FEET OF ALL STREET INTERSECTIONS. THE FULL WIDTH OF RIGHT-OF-WAY SHALL BE CLEARED AND GRADED ALONG ALL MAJOR, MINOR AND SENSITIVE AREA THOROUGHFARES.
E. WHEEL CHAIR ACCESS RAMPS WILL BE PROVIDED IN ACCORDANCE WITH STANDARD DRAWING SHOWN ON SHEET CD15. WHERE SIDEWALK IS NOT REQUIRED ALONG THE PUBLIC RIGHT-OF-WAY, CURB IS TO BE DEPRESSED AT ALL RAMP LOCATIONS SHOWN ON THE STANDARD DETAIL.
F. ALL INDIVIDUAL LOTS SHALL HAVE AN EROSION CONTROL PLAN SUBMITTED PRIOR TO CONSTRUCTION OF HOUSES THERE UPON. IF MULTIPLE LOTS WITH A TOTAL DISTURBED AREA OF MORE THAN 12,000 SF ARE TO BE BUILT UPON AT ONE TIME, A COORDINATED EROSION CONTROL PLAN SHALL BE SUBMITTED.
G. ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
H. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL (1-800-632-4949) TO LOCATE ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
I. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES AND NOTIFY THE PROJECT ENGINEER (919-469-1101) OF ANY CONFLICTS.
J. ALL BOUNDARY AND FIELD TOPOGRAPHY PROVIDED BY WITHERS & RAVENEL.
K. PHASE LINES SHOWN ARE SPECIFICALLY FOR ESTABLISHING LOTS THROUGH PLATTING PROCESS.

## STANDARD UTILITY NOTES (AS APPLICABLE):

1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   A) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
   B) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
   C) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
   D) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER
   E) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORMDRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W- 41 & S-49).
   F) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
5. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
6. SEWER BYPASS PUMPING – A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER PRIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES HANDBOOK.
7. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
8. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
9. INSTALL ¾" COPPER* WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
10. INSPECTIONS OF 4" AND LARGER WATER MAINS OF THE PRIVATE DISTRIBUTION SYSTEM WILL BE INSPECTED AS PART OF THE INFRASTRUCTURE PERMIT.
11. PRIVATE SEWER MAINS AS PART OF A COLLECTION SYSTEM ARE PERMITTED AND INSPECTED UNDER THE PRIVATE INFRASTRUCTURE PERMIT FOR SEWER.
12. ANY WATER OR SEWER SERVICES ON PRIVATE PROPERTY THAT WILL BE INSTALLED UNDER CONSTRUCTION DRAWINGS MAY REQUIRE A PLUMBING UTILITY PERMIT IN THE CITY OF RALEIGH. CONSULT WITH THE ENGINEERING INSPECTION COORDINATOR DURING THE PRE-CONSTRUCTION MEETING ON THE NECESSARY PERMITS.
13. INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
14. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
15. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
16. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
17. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT. CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
18. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA.
19. THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.
20. THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A – GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
21. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH, INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.
22. NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER THAN $250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS.
23. PRIVATE SUB-METERING - NO RESALE OF WATER SHALL OCCUR WITHOUT APPROVAL OF THE NORTH CAROLINA UTILITY COMMISSION. SUB-METERING SHALL BE IN ACCORDANCE WITH SECTION 1400 OF THE "SAFE DRINKING WATER ACT".

## NOTES FOR CONSTRUCTION:

1. PLANS FOR INFRASTRUCTURE ONLY.
2. ALL CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH CURRENT CITY OF RALEIGH STANDARD SPECS AND DETAILS, WAKE COUNTY SPECIFICATIONS, NCDOT SPECIFICATIONS AND TOWN OF ROLESVILLE SPECIFICATIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE DRAWINGS.
4. THERE ARE NO 100 YEAR FLOOD PLAINS PER FEMA MAP WITHIN PROPERTY.
5. CONTRACTOR WILL KEEP STREETS CLEAN AT ALL TIMES, OR A WASH STATION WILL BE REQUIRED.
6. ALL CATCH BASINS SHALL HAVE INLET PROTECTION.
7. ALL CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING, WITH SOME SLOPES TO BE STABALIZED WITHIN 7 DAYS AS SHOWN ON CHART TO THE LEFT AND ON THE EC SHEETS..
8. TREE PROTECTION FENCING ON THIS PROJECT WILL BE INSTALLED AND INSPECTED BEFORE THE GRADING PERMIT IS ISSUED.
9. A PRE-CONSTRUCTION CONFERENCE MAY BE REQUIRED BEFORE GRADING PERMIT IS ISSUED. PERMANENT GROUND COVER WILL BE ESTABLISHED IN 15 WORKING DAYS OR 90 CALENDAR DAYS WHICHEVER IS SHORTER.
10. THE AREA DESIGNATED SHALL BE USED FOR TOPSOIL STOCKPILE.
11. THIS PROJECT IS IN THE NEUSE RIVER WATERSHED.
12. WETLANDS ON THIS PROJECT ARE AS SHOWN.
13. MINIMUM CORNER CLEARANCE FROM THE CURB LINE OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY.

## EROSION & SEDIMENT CONTROL NOTES:

### STAGE 1 E&SC CONSTRUCTION SEQUENCE:

1. THE OWNER SHALL OBTAIN NCG01 PERMIT AND PAY ANY FEE THAT MAYBE ASSOCIATED WITH THIS PERMIT.
2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT, OBTAIN LAND DISTURBING PERMIT.
3. ENSURE THAT ALL LIMITS OF DISTURBANCE, SURFACE WATERS, AND RIPARIAN BUFFERS ARE FLAGGED PRIOR TO INSTALLATION OF EROSION CONTROL MEASURES. WETLANDS PRESENT ON SITE, UNLESS APPROVED WITHIN PROJECT ENVIRONMENTAL PERMITTING, ARE NOT TO BE IMPACTED DURING CONSTRUCTION ACTIVITIES.
4. TREE PROTECTION FENCES, SILT FENCES AND CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES INCLUDING STOCKPILE LOCATIONS. STOCKPILE LOCATIONS SHOULD BE ENCLOSED BY SILT FENCE AS SHOWN ON THE PLANS. SEED ALL RESULTING BARE AREAS IMMEDIATELY AFTER CONSTRUCTION/INSTALLATION.
5. CALL FOR INSPECTION BY THE ENVIRONMENTAL CONSULTANT, PROCEED TO STAGE 2 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONE APPROVAL IS GRANTED.

### STAGE 2 E&SC CONSTRUCTION SEQUENCE:

1. CONSTRUCT SCMS #1-#5 AS SEDIMENT BASINS BY OMITTING FOREBAY DIVIDERS AND CONNECTING SKIMMERS TO THE CONTROL STRUCTURES. THE FINAL PIPE(S) AND CONTROL STRUCTURE(S) FOR EACH POND ARE TO BE INSTALLED WITH THE STAGE 2 EROSION AND SEDIMENT CONTROL PLAN. SEE PROJECT CD PLAN SET FOR REQUIRED SCM DESIGN ELEVATIONS AND CALCULATIONS. SEE EROSION AND SEDIMENT CONTROL PLAN SHEETS C3.5 THROUGH C3.9 FOR MORE DETAIL. ANY INLET(S) INSTALLED SHOULD HAVE INLET PROTECTION INSTALLED IMMEDIATELY AS SEEN IN THE PROJECT CD PLAN SET. THE SEDIMENT BASINS SHALL BE FULLY CONSTRUCTED PRIOR TO THE INSTALLATION OF ANY TEMPORARY DIVERSION DITCHES. ANY PIPE INSTALLATION SHALL BE EXCAVATED, INSTALLED, AND BACKFILLED WITHIN A SINGLE WORKING DAY.
2. INSTALL ANY APPLICABLE RIP RAP DISSIPATORS SEEN WITHIN THE CD SET FOR THE STAGE 2 EROSION AND SEDIMENT CONTROL PLAN.
3. INSTALL TEMPORARY DIVERSION DITCHES #1 THROUGH #4 AS SEEN IN THE CD PLAN SET TO CONVEY SEDIMENT AND RUN OFF TO RESPECTIVE SEDIMENT BASINS. INSTALL RECOMMENDED LINER AND SEED/STABILIZE DENUDED GROUND IMMEDIATELY FOLLOWING DIVERSION DITCH INSTALLATION.
4. CONTRACTOR TO INSTALL BRIDGE MAT AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS FOR CREEK CROSSING. SEE "CONSTRUCTION SEQUENCE FOR THE 54" RCP CULVERT CROSSING" BELOW AND ON SHEET C8.5 FOR DETAILED CREEK CROSSING CONSTRUCTION SEQUENCE.
5. CALL FOR INSPECTION BY THE ENVIRONMENTAL CONSULTANT, PROCEED TO STAGE 3 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONE APPROVAL IS GRANTED.
6. ADDITIONAL MEASURES OR DITCH EXTENSIONS MAY BE REQUIRED BY THE ENVIRONMENTAL CONSULTANT TO ROUTE RUNOFF TO SEDIMENT BASINS BASED ON FIELD CONDITIONS. THESE MEASURES SHALL BE INSTALLED UPON THE INSPECTOR'S DETERMINATION.

### STAGE 3 E&SC CONSTRUCTION SEQUENCE:

1. GENERAL SITE GRADING MAY BEGIN.
2. INSTALL STORM DRAINAGE PIPE SYSTEMS AS SEEN IN THE CD SET. INSTALLATION SHOULD BE DONE IN THE MANAGEABLE SERIES. ANY SERIES OF PIPE AND STRUCTURE INSTALLATION(S) SHALL BE DONE SO THAT TRENCHING/EXCAVATION THAT IS PERFORMED THAT DAY IS ABLE TO HAVE BEDDING PREPARED, PIPE INSTALLED AND BACKFILLED WITHIN THE SAME WORKING DAY. DENUDED AREAS SHOULD BE STABILIZED IMMEDIATELY.
3. AS EACH CATCH BASIN OR YARD INLET IS INSTALLED, IT SHALL HAVE INLET PROTECTION INSTALLED. THIS IS TO REMAIN IN PLACE AND BE MAINTAINED PERIODICALLY UNTIL FINAL SITE INSPECTION IS APPROVED.
4. INSTALL ANY APPLICABLE RIP RAP DISSIPATORS SEEN WITHIN THE CD SET FOR THE STAGE 3 EROSION AND SEDIMENT CONTROL PLAN.
5. CLEAN SEDIMENT BASINS WHEN ONE-HALF FULL.
6. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL SLOPES WITHIN FOURTEEN (14) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
7. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND IS ESTABLISHED.
8. UTILITIES (WATER, ELECTRIC, GAS, CABLE TV, TELEPHONE, ETC.) WILL BE INSTALLED DURING THIS PHASE.
9. WHEN ALL CONTRIBUTING AREAS ARE STABILIZED, OBTAIN APPROVAL FROM THE ENVIRONMENTAL CONSULTANT TO CONVERT THE SEDIMENT BASINS (SB) TO PERMANENT STORMWATER CONTROL MEASURES (SCM). SEE RECOMMENDED INSTRUCTIONS TO CONVERT SEDIMENT BASINS TO PERMANENT STORMWATER CONTROL MEASURES ON THIS SHEET OF THE PROJECT CONSTRUCTION DRAWINGS.
10. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
11. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCES, ETC.. AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS SHOULD BE INSTALLED.
12. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN CERTIFICATE OF COMPLETION.

### SCM CONVERSION SEQUENCE:

1. WHEN ALL CONTRIBUTORY AREAS TO THE STORMWATER CONTROL MEASURE (SCM) HAVE BEEN STABILIZED CONTACT THE EROSION CONTROL OFFICER FOR PERMISSION TO CONVERT THE SEDIMENT BASIN (SB) TO A SCM.
2. REMOVE ALL SEDIMENT FROM THE BASIN AND RESTORE GRADES TO DESIGNED CONFIGURATION, IF NEEDED.
3. CONSTRUCT FOREBAY DIVIDERS AS SHOWN ON THE PLANS.
4. REMOVE TEMPORARY BAFFLES FROM THE BASIN.
5. MAKE ANY REPAIRS NECESSARY TO THE OUTLET STRUCTURE, OUTLET PIPE, EMERGENCY OVERFLOW, ETC. EXAMINE RIP-RAP TO SEE IF REFRESHING OR CLEANING OF ROCK IS NECESSARY.
6. INSTALL SHELF PLANTINGS AS SHOWN ON THE PLANS. CHECK THAT ALL SLOPES ARE PROPERLY STABILIZED.
7. BE SURE THAT THE TRASH RACKS ARE IN PLACE AND PROPERLY FUNCTIONING. REMOVE SKIMMER AND CLOSE OUTLET VALVE.
8. CONTACT EROSION CONTROL OFFICER FOR APPROVAL.
9. CONTACT A LICENSED SURVEYOR FOR SURVEY OF AS-BUILT CONDITIONS. NOTIFY ENGINEER-OF-RECORD FOR PREPARATION OF AS-BUILT DRAWINGS.

### REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE*

1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE WATERSHED MANGER. OBTAIN A LAND-DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
3. CALL FOR AN ONSITE INSPECTION BY THE WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE.
4. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
5. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.
6. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
7. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL FOR AN INSPECTION BY THE WATERSHED MANAGER.
8. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
9. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WATERSHED MANAGER. OBTAIN A CERTIFICATE OF COMPLETION.

### STOCKPILE DESIGN CRITERIA

A. A 25-FOOT TEMPORARY MAINTENANCE AND ACCESS EASEMENT SHALL BE SHOWN AROUND ALL PROPOSED STOCKPILES (EROSION CONTROL MEASURES SURROUNDING THE STOCKPILE SHALL BE SHOWN AT THE OUTER LIMIT OF THIS EASEMENT).
B. STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.
C. A NOTE SHALL BE PROVIDED ON THE APPROVED PLAN THAT STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
D. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
E. APPROVED BMPS SHALL BE SHOWN ON A PLAN TO CONTROL ANY POTENTIAL SEDIMENT LOSS FROM A STOCKPILE.
F. STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
G. ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
H. OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL, PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).

### MAINTENANCE REQUIREMENTS TO BE NOTED ON THE PLAN

I. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
J. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
K. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
L. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

REQUIRED WAKE COUNTY BASIN REMOVAL SEQUENCE

1. SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
2. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
3. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
4. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
5. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.


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American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:10-04'00'

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045268 JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02.03.2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04.01.2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE


THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.


THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**GENERAL NOTES**

SHEET NO.:
**C2.0**

## MAINTENANCE OF EROSION CONTROL MEASURES

SILT FENCE MAINTENANCE - INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFGER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE OUTLETS - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. IF DAMAGED, THEY SHALL HAVE FABRIC, POSTS OR WIRE BACKING REPLACED TO RESTORE TO ORIGINAL CONDITION.

TREE PROTECTION FENCE MAINTENANCE - CONTINUE TO CARE FOR THE SITE UNTIL THE NEW OWNER TAKES POSSESSION. TAKE THESE STEPS AFTER ALL MATERIALS AND EQUIPMENT HAVE BEEN REMOVED FROM THE SITE:

- REMOVE TREE PROTECTION ZONE FENCES.
- PRUNE ANY DAMAGED TREES. IN SPITE OF PRECAUTIONS, SOME DAMAGE TO PROTECTED TREES MAY OCCUR. IN SUCH CASES, REPAIR ANY DAMAGE TO THE CROWN, TRUNK, OR ROOT SYSTEM IMMEDIATELY.
- REPAIR ROOTS BY CUTTING OFF THE DAMAGED AREAS AND PAINTING THEM WITH TREE PAINT SPREAD PEAT MOSS OR MOIST TOPSOIL OVER EXPOSED ROOTS.
- REPAIR DAMAGE TO BARK BY TRIMMING AROUND THE DAMAGED AREA AS SHOWN IN FIGURE 6.05D, TAPER THE CUT TO PROVIDE DRAINAGE, AND PAINT WITH TREE PAINT.
- CUT OFF ALL DAMAGED TREE LIMBS ABOVE THE TREE COLLAR AT THE TRUNK OR MAIN BRANCH. USE THREE SEPARATE CUTS AS SHOWN IN FIGURE 6.05D TO AVOID PEELING BARK FROM HEALTHY AREAS OF THE TREE.
- CONTINUE MAINTENANCE CARE. PAY SPECIAL ATTENTION TO ANY STRESSED, DISEASED, OR INSECT-INFESTED TREES. REDUCE TREE STRESS CAUSED BY UNINTENDED CONSTRUCTION DAMAGE BY OPTIMIZING PLANT CARE WITH WATER, MULCH, AND FERTILIZER WHERE APPROPRIATE. CONSULT YOUR TREE EXPERT IF NEEDED.
- INFORM THE PROPERTY OWNER ABOUT THE MEASURES EMPLOYED DURING CONSTRUCTION, WHY THOSE MEASURES WERE TAKEN, AND HOW THE EFFORT CAN BE CONTINUED.

CONSTRUCTION ENTRANCE - MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

SOIL STOCKPILE AREAS/OTHER GRASSED AREAS MAINTENANCE - GRASS AREAS SHALL BE RESEEDED AS NECESSARY. SOIL STOCKPILE AREAS SHALL BE SEEDED WHEN THEIR USE IS COMPLETE.

TEMPORARY SEDIMENT TRAP - INSPECT TEMPORARY SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½ INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT, AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE PART OF THE GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.

CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FEET BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. ANY RIPRAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.

AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY (REFERENCES: SURFACE STABILIZATION).

SEDIMENT BASINS - INSPECT TEMPORARY SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. PLACE REMOVED SEDIMENT IN AN AREA WITH SEDIMENT CONTROLS.

CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.

CONCRETE WASHOUT - IT SHALL BE CLEANED PERIODICALLY AS NEEDED. IF THE PLASTIC LINER IS DAMAGED, IT SHALL BE REPLACED.

BAFFLES - INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL, TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES.TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT AND REPLACE IF DAMAGED DURING CLEANOUT OPERATIONS. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.

AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT.

ROLLED EROSION CONTROL PRODUCTS -

1. INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAIN FALL EVENT REPAIR IMMEDIATELY.
2. GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.
3. ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
4. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
5. MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

SKIMMERS - INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT J UST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS.ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO, REMOVE THE DEBRIS.

IF THE SKIMMER AND/ OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

GRASSED LINED CHANNEL- DURING THE ESTABLISHMENT PERIOD, CHECK GRASS-LINED CHANNELS AFTER EVERY RAINFALL.AFTER GRASS IS ESTABLISHED, PERIODICALLY CHECK THE CHANNEL; CHECK IT AFTER EVERY HEAVY RAINFALL EVENT. IMMEDIATELY MAKE REPAIRS. IT IS PARTICULARLY IMPORTANT TO CHECK THE CHANNEL OUTLET AND ALL ROAD CROSSINGS FOR BANK STABILITY AND EVIDENCE OF PIPING OR SCOUR HOLES. REMOVE ALL SIGNIFICANT SEDIMENT ACCUMULATIONS TO MAINTAIN THE DESIGNED CARRYING CAPACITY. KEEP THE GRASS IN A HEALTHY, VIGOROUS CONDITION AT ALL TIMES, SINCE IT IS THE PRIMARY EROSION PROTECTION FOR THE CHANNEL (PRACTICE 6.11, PERMANENT SEEDING).

RIP-RAP CHANNEL - INSPECT CHANNELS AT REGULAR INTERVALS AS WELL AS AFTER MAJOR RAINS, AND MAKE REPAIRS PROMPTLY. GIVE SPECIAL ATTENTION TO THE OUTLET AND INLET SECTIONS AND OTHER POINTS WHERE CONCENTRATED FLOW ENTERS. CAREFULLY CHECK STABILITY AT ROAD CROSSINGS, AND LOOK FOR INDICATIONS OF PIPING, SCOUR HOLES, OR BANK FAILURES. MAKE REPAIRS IMMEDIATELY. MAINTAIN ALL VEGETATION ADJACENT TO THE CHANNEL IN A HEALTHY, VIGOROUS CONDITION TO PROTECT THE AREA FROM EROSION AND SCOUR DURING OUT-OF-BANK FLOW.

OUTLET STABILIZATION STRUCTURE - INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE

TEMPORARY SILT DITCH - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. IF SIGNIFICANT EROSION OF THE DITCH IS HAPPENING IT SHALL BE RE-GRADED. ANY BREACH OF THE DOWNHILL SIDE BERM SHALL BE FIXED IMMEDIATELY.

WATTLES/COMPOST SOCK - INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED

ROCK PIPE INLET PROTECTION - INSPECT ROCK PIPE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½ INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.

CHECK THE STRUCTURE FOR DAMAGE. ANY RIPRAP DISPLACED FROM THE STONE HORSESHOE MUST BE REPLACED IMMEDIATELY.

AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND PROVIDE PERMANENT GROUND COVER (SURFACE STABILIZATION).


AMERICAN Engineering
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Raleigh, NC 27607
919-469-1101


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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:11-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045281 JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE


THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

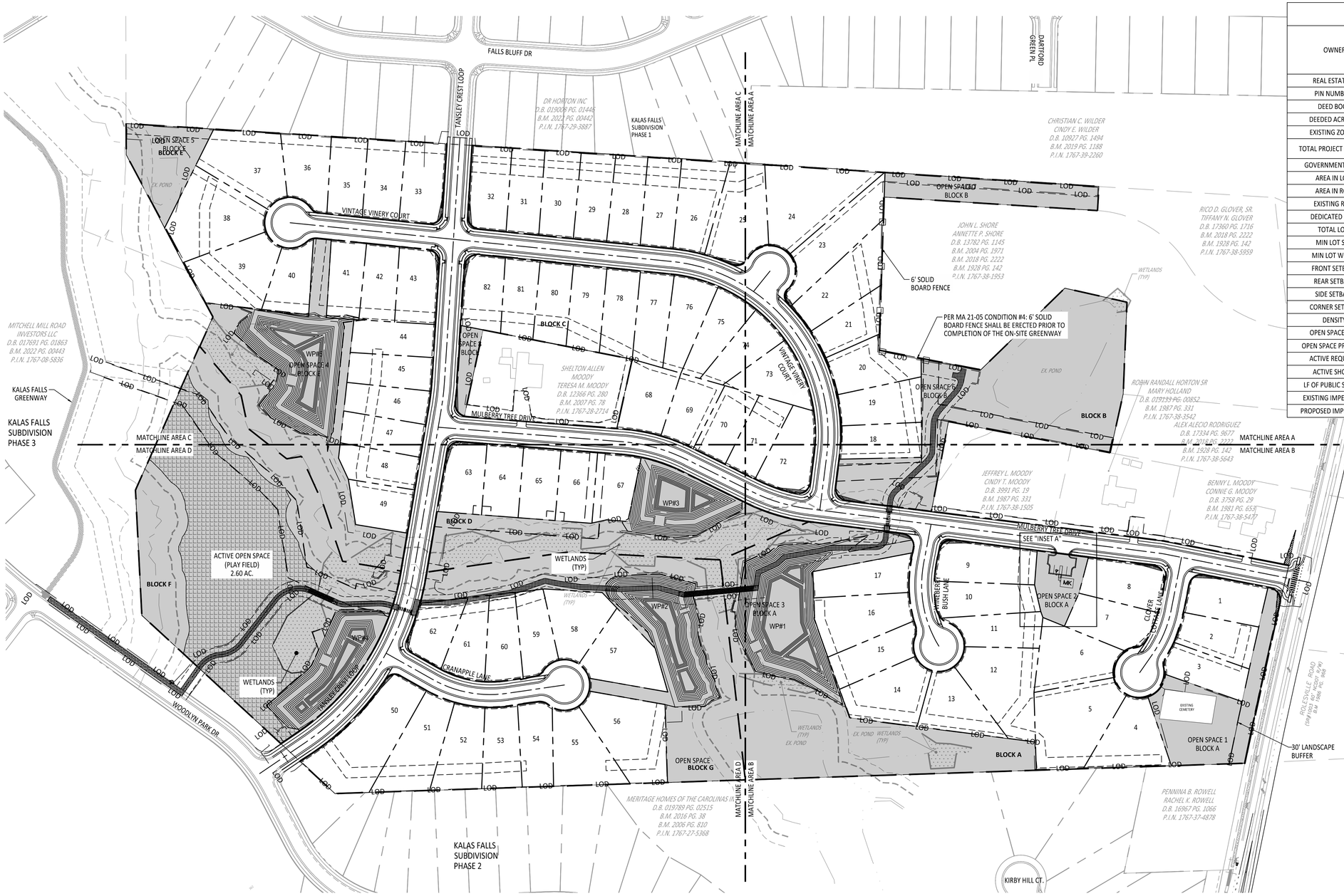

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**GENERAL NOTES**

SHEET NO.:
**C2.1**

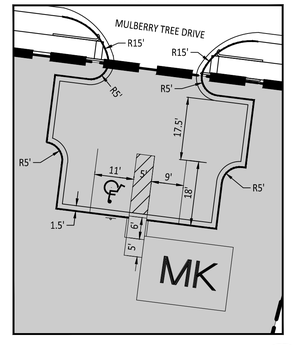

North Carolina 811 811.com
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm




| SITE INFORMATION | |
|---|---|
| OWNER | HOLLINGSWORTH, W.C., JR. AND HOLLINGSWORTH, LAURA W.<br>P.O.BOX 61 LOUISBURG NC 27549-0061<br>AND<br>MOODY, BENNY LAWRENCE AND MOODY, JEFFREY LYNN<br>1716 ROLESVILLE RD, WAKE FOREST NC 27587-9677 |
| REAL ESTATE ID | 0048383 AND 0048422 |
| PIN NUMBERS | 1767284925 AND 1767284304 |
| DEED BOOK | DB:017552 PG:02100 AND DB:014297 PG:01583 |
| DEEDED ACREAGE | 51.78 AC |
| EXISTING ZONING | R-3 CZ |
| TOTAL PROJECT ACREAGE | 49.92 AC |
| GOVERNMENTAL USE | 0.48 AC |
| AREA IN LOTS | 24.38 AC |
| AREA IN ROW | 6.54 AC |
| EXISTING ROW | 0.27 AC |
| DEDICATED ROW | 0.14 AC |
| TOTAL LOTS | 82 |
| MIN LOT SIZE | 10,000 SF |
| MIN LOT WIDTH | 65' |
| FRONT SETBACK | 25' |
| REAR SETBACK | 25' |
| SIDE SETBACK | 10' |
| CORNER SETBACK | 25' |
| DENSITY | 1.6 UNIT/AC. |
| OPEN SPACE REQ. | 10% / 5 AC. |
| OPEN SPACE PROVIDED | 37% / 18.81 AC |
| ACTIVE REQUIRED | 2.5 AC (50% OF 5 AC) |
| ACTIVE SHOWN | 2.7 AC |
| LF OF PUBLIC STREETS | 5,531 LF |
| EXISTING IMPERVIOUS | 0.69 AC |
| PROPOSED IMPERVIOUS | 14.86 AC |

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

INSET A




GRAPHIC SCALE

100 0 50 100 200 400

( IN FEET )
1 inch =100

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20

NOTES:

1. SEWER ACCESS FROM ADJACENT DEVELOPMENT TO BE DETERMINED UPON FINAL LAYOUT.
2. STANDARD CROSSWALKS ARE TO BE 8' WHITE. W11-2 WITH W16-7P SIGNS WITH FLUORESCENT YELLOW-GREEN SHEETING. SEE 2.3 FOR HI-VISIBILITY CROSSWALK DETAIL.
3. GREENWAY TRAIL IS TO BE DESIGNED USING ASPHALT.

| PROPOSED IMPERVIOUS AREA | |
|---|---|
| DRIVEWAYS | 1.24 AC |
| PARKING LOT | 0.73 AC |
| ROADWAY | 3.89 AC |
| LOTS | 8.12 AC |
| SIDEWALK | 0.88 AC |
| TOTAL | 14.86 AC |

| OPEN SPACE AREA | |
|---|---|
| OPEN SPACE ID | AREA |
| OPEN SPACE 1 | 27,618.61 SQ.FT / 0.63 AC |
| OPEN SPACE 2 | 10,948.31 SQ.FT / 0.25 AC |
| OPEN SPACE 3 | 307,966.02 SQ.FT / 7.07 AC |
| OPEN SPACE 4 | 308,915.69 SQ.FT / 7.09 AC |
| OPEN SPACE 5 | 19,503.67 SQ.FT / 0.45 AC |
| OPEN SPACE 6 | 103,461.21 / 2.38 AC. |
| OPEN SPACE 7 | 20,167.06 SQ.FT / 0.46 AC |
| OPEN SPACE 8 | 5,374.43 SQ.FT / 0.12 AC |

KEYNOTE LEGEND:

1. CURB RAMP TYPE 1 MODIFIED
2. CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
3. CURB RAMP TYPE 5A
4. CURB RAMP TYPE 3

AMERICAN Engineering
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919-469-1101

NORTH CAROLINA — AMERICAN ENGINEERING ASSOCIATES SOUTHEAST — C-3881 — CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:12-04'00'

PRELIMINARY — DO NOT USE FOR CONSTRUCTION — NORTH CAROLINA — 39528 — PROFESSIONAL ENGINEER — JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

**OVERALL SITE PLAN**

SHEET NO.:

**C4.0**

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (#21000)\Final_Working\Dwgs\Construction Set\4.0 4.6 Site Plan.dwg April 1, 2025

| LOT INFORMATION | |
|---|---|
| | SETBACK LINES |
| MIN LOT WIDTH | 65' |
| FRONT SETBACK | 25' |
| FRONT SETBACK | 25' |
| SIDE SETBACK | 10' |
| CORNER SETBACK | 25' |

* SEE LOT 1 FOR TYPICAL SETBACK DIMENSION

NOTE:
TA 20-01 WAS ADAPTED 9-15-20, PERMITTING THE " DWELLING- SINGLE FAMILY DETACHED" USE IN THE R-3 DISTRICT, AND ESTABLISHED: MINIMUM LOT AREA OF 10,000 SF; MINIMUM LOT WIDTH 65'; FRONT YARD SETBACK OF 25'; SIDE YARD SETBACK OF 10'; CORNER YARD SETBACK OF 15'; REAR YARD SETBACK OF 25'

KEYNOTE LEGEND:

1. CURB RAMP TYPE 1 MODIFIED
2. CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
3. CURB RAMP TYPE 5A
4. CURB RAMP TYPE 3

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

GRAPHIC SCALE
50 0 25 50 100 200
( IN FEET )
1 inch = 50


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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045528 JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

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# THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**SITE PLAN A**

SHEET NO.:
**C4.1**

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

April 1, 2025
Z:\Jobs\21-002 Moody Development Tract (R2100023)\dwg_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg

MATCHLINE AREA C
MATCHLINE AREA D

MATCHLINE AREA A
MATCHLINE AREA B

MATCHLINE AREA D
MATCHLINE AREA B

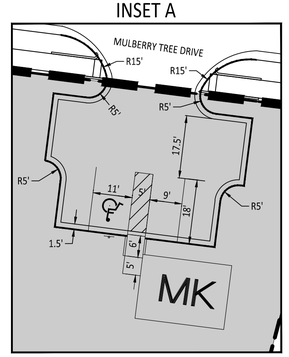
**NOTE: OFFSITE IMPROVEMENTS SHOWN ARE CURRENTLY UNDER CONSTRUCTION AND NCDOT APPROVED ON JUNE 5th AS A PART OF E051-092-24-00303. THE PRESERVE AT MOODY FARM NCDOT IMPROVEMENTS ONLY INCLUDE AN UPDATED DRIVEWAY (IN SAME LOCATION AS EXISTING) AND A WATER CONNECTION.**

KEYNOTE LEGEND:

1. CURB RAMP TYPE 1 MODIFIED
2. CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
3. CURB RAMP TYPE 5A
4. CURB RAMP TYPE 3

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

INSET A




GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20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Raleigh, NC 27607
919-469-1101


NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:14-04'00'

PRELIMINARY - NOT FOR CONSTRUCTION
NORTH CAROLINA
PROFESSIONAL ENGINEER
JAKOB P. KLEIN
052268

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

**SITE PLAN B**

SHEET NO.:

**C4.2**


North Carolina 811 811.com
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm



Z:\Jobs\21-002 Moody Development Trust (P210002)\dwg_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg
April 1, 2025

#3- This dimension is new. Please label what this dimension is defining, or remove the dimension.

#4- Correct overlapping text.

KALAS FALLS SUBDIVISION PHASE 1

MATCHLINE AREA C

MATCHLINE AREA A

MATCHLINE AREA D

MATCHLINE AREA B

DR HORTON INC
D.B. 019008 PG. 01446
B.M. 2022 PG. 00442
P.I.N. 1767-29-3887

SHELTON ALLEN MOODY
TERESA M. MOODY
D.B. 12366 PG. 280
B.M. 2007 PG. 78
P.I.N. 1767-28-2714

OPEN SPACE 5 BLOCK K

OPEN SPACE 8 BLOCK E

OPEN SPACE 8 BLOCK C

EX. POND

WP#5

WP#3

WETLANDS

VINTAGE VINERY COURT

TANSLEY CREST LOOP

MULBERRY TREE DRIVE

END OF CONTRUCTION KALAS FALLS PHASE 1

20' DRAINAGE EASEMENT

35' ACCESS EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

VARIABLE WIDTH PUBLIC ACCESS AND MAINTENANCE EASEMENT

VARIABLE WIDTH SLOPE EASEMENT

TEMPORARY CONSTRUCTION EASEMENT

30' COR UTILITY EASEMENT

40' COR UTILITY EASEMENT

3' COR UTILITY EASEMENT (TYP)

10'x70' SIGHT TRIANGLE (TYP) WITH EASEMENT

10'x70' SIGHT TRIANGLE(TYP) WITH EASEMENT

KALAS FALLS GREENWAY

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

KEYNOTE LEGEND:

1. CURB RAMP TYPE 1 MODIFIED
2. CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
3. CURB RAMP TYPE 5A
4. CURB RAMP TYPE 3

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50


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4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:15-04'00'

PRELIMINARY
NOT RELEASED FOR CONSTRUCTION
PROFESSIONAL ENGINEER
NORTH CAROLINA
JAKOB P. KLEIN
045268

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE


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# THE PRESERVE AT MOODY FARM

CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

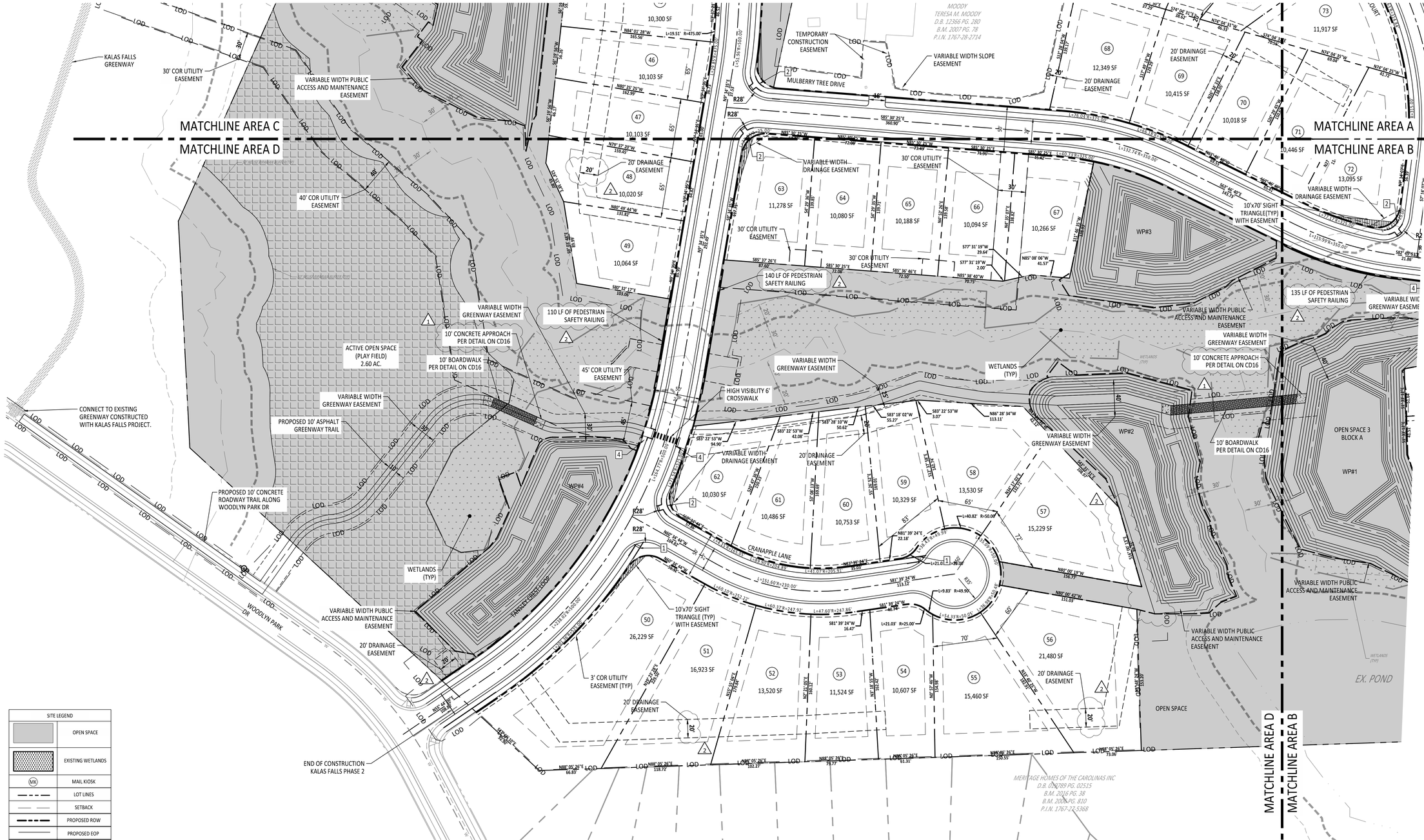
## SITE PLAN C

SHEET NO.:

C4.3

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm


April 1, 2025
Z:\Jobs\21-002 Moody Development Tract (RZ100010)\Engr_Working Dwgs\Construction Set\4.0 4.6 Site Plan.dwg




| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

KEYNOTE LEGEND:

1. CURB RAMP TYPE 1 MODIFIED
2. CURB RAMP TYPE 3 MODIFIED INSTALLATION IN A RADIUS
3. CURB RAMP TYPE 5A
4. CURB RAMP TYPE 3

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50

April 1, 2025

Z:\Jobs\21-002 Moody Development Trust (9210002)\dwg_Working Dwgs\Construction Set\4.0-4.4 Site Plan.dwg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American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045258 JAKOB P. KLEIN
CERTIFICATE OF AUTHORIZATION AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:16-04'00'

PRELIMINARY
NOT FOR RECORDATION, CONVEYANCE, OR SALES
DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

# THE PRESERVE AT MOODY FARM

CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

## SITE PLAN D

SHEET NO.:

**C4.4**

North Carolina 811 811.com

*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

| PHASE 1 | LOT SQ.FT | BLOCK IDENTIFICATION |
|---|---|---|
| 18 | 10,700 | E |
| 19 | 12,195 | E |
| 20 | 12,938 | E |
| 21 | 10,099 | E |
| 22 | 16,635 | E |
| 23 | 17,690 | E |
| 24 | 23,533 | E |
| 25 | 18,182 | E |
| 26 | 14,320 | E |
| 27 | 11,598 | E |
| 28 | 11,234 | E |
| 29 | 11,457 | E |
| 30 | 11,740 | E |
| 31 | 10,642 | E |
| 32 | 12,680 | E |
| 33 | 12,923 | F |
| 34 | 11,388 | F |
| 35 | 10,854 | F |
| 36 | 12,161 | F |
| 37 | 18,865 | F |
| 38 | 22,190 | F |
| 39 | 18,729 | F |
| 40 | 10,322 | F |
| 41 | 10,145 | F |
| 42 | 10,082 | F |
| 43 | 11,599 | F |

| PHASE 1 | LOT SQ.FT | BLOCK IDENTIFICATION |
|---|---|---|
| 68 | 12,349 | D |
| 69 | 10,415 | D |
| 70 | 10,018 | D |
| 71 | 10,446 | D |
| 72 | 13,095 | D |
| 73 | 11,917 | D |
| 74 | 10,036 | D |
| 75 | 11,243 | D |
| 76 | 11,779 | D |
| 77 | 11,451 | D |
| 78 | 11,215 | D |
| 79 | 10,882 | D |
| 80 | 10,406 | D |
| 81 | 10,092 | D |
| 82 | 11,305 | D |

| PHASE 2 | LOT SQ.FT | BLOCK IDENTIFICATION |
|---|---|---|
| 1 | 11,961 | A |
| 2 | 11,108 | A |
| 3 | 10,585 | A |
| 4 | 14,891 | A |
| 5 | 23,343 | A |
| 6 | 15,940 | A |
| 7 | 12,685 | A |
| 8 | 12,706 | A |
| 9 | 14,622 | A |
| 10 | 12,514 | A |
| 11 | 10,724 | A |
| 12 | 20,725 | A |
| 13 | 13,467 | A |
| 14 | 15,990 | A |
| 15 | 11,409 | A |
| 16 | 16,539 | A |
| 17 | 12,179 | A |
| 44 | 10,496 | F |
| 45 | 10,300 | F |
| 46 | 10,103 | F |
| 47 | 10,103 | F |
| 48 | 10,020 | F |
| 49 | 10,064 | F |
| 50 | 26,229 | B |
| 51 | 16,923 | B |
| 52 | 13,520 | B |

| PHASE 2 | LOT SQ.FT | BLOCK IDENTIFICATION |
|---|---|---|
| 53 | 11,524 | B |
| 54 | 10,607 | B |
| 55 | 15,460 | B |
| 56 | 21,480 | B |
| 57 | 15,229 | B |
| 58 | 13,530 | B |
| 59 | 10,329 | B |
| 60 | 10,753 | B |
| 61 | 10,486 | B |
| 62 | 10,030 | B |
| 63 | 11,278 | C |
| 64 | 10,080 | C |
| 65 | 10,188 | C |
| 66 | 10,094 | C |
| 67 | 10,266 | C |

TOTAL NUMBER OF LOTS

PHASE 1 - 41 LOTS
PHASE 1 -12,721 SF AVERAGE LOT SIZE

PHASE 2 - 41 LOTS
PHASE 2 - 13,182 SF AVERAGE LOT SIZE

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

GRAPHIC SCALE

100 0 50 100 200 400

( IN FEET )
1 inch =100

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:17-04'00'

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA
26528
PROFESSIONAL ENGINEER
JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

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# THE PRESERVE AT MOODY FARM

CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

## PHASING PLAN

SHEET NO.:
**C4.5**

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

GRAPHIC SCALE

100 0 50 100 200 400

( IN FEET )

1 inch =100

| SITE INFORMATION | |
|---|---|
| TOTAL PROJECT ACREAGE | 49.92 AC |
| GOVERNMENTAL USE | 0.48 AC |
| AREA IN LOTS | 24.38 AC |
| AREA IN ROW | 6.54 AC |
| OPEN SPACE REQ. | 10% / 5 AC. |
| OPEN SPACE PROVIDED | 37% / 18.81 AC |
| ACTIVE REQUIRED | 2.5 AC (50% OF 5 AC) |
| ACTIVE SHOWN | 2.7 AC |

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| | GOVERNMENTAL USE |
| | ACTIVE OPEN SPACE |
| MK | MAIL KIOSK |


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American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
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C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:18-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 26528 JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**OPEN SPACE AND LAND USE PLAN**

SHEET NO.:
**C4.6**

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm


Z:\Jobs\21-002 Moody Development Tract (8210005)\Dwgs_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg April 1, 2025

#5- Repeat: Slopes are not to exceed 3:1 without additional steps taken for stabilization. Slopes of 3:1 or less are preferred.

The geotechnical report recommends that permanent slopes do not exceed 3:1. Due to the environmental impacts, if the engineer chooses to go steeper we will allow it, but a railing must be installed adjacent to sidewalk. In addition, **appropriate stabiliation needs to be provided on the steeper slopes, such as rolled erosion control products.**

Thank you for showing the railing, please also show permanent slope stabilization measures.

NOTE: SEE DRAINAGE 50 SCALE SHEETS FOR STORMWATER STRUCTURE LABELS.

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

GRAPHIC SCALE

100 0 50 100 200 400

( IN FEET )
1 inch =100


AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:19-04'00'

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL
076528
JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

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# THE PRESERVE AT MOODY FARM

CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**OVERALL DRAINAGE PLAN**

SHEET NO.:
**C5.0**


North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm



Z:\Jobs\21-002 Moody Development Tract (8210005)\Final_Working Dwgs\Construction Set\C5-5.1 Drainage and Grading Plan.dwg April 1, 2025

MATCHLINE AREA C

MATCHLINE AREA A

MATCHLINE AREA C

MATCHLINE AREA D

MATCHLINE AREA A

MATCHLINE AREA B

#6- Clarify if a wall is being constructed here and add top and bottom wall elevations.

#6- Clarify the extent of the wall on where it starts and stops; Clarify if the stem elevation is the bottom of wall elevation.

#6- Clarify the extent of the wall on where it starts and stops; Clarify if the stem elevation is the bottom of wall elevation.

#7- Adjust the grading to match the new greenway design

OPEN SPACE 7
BLOCK B

OPEN SPACE 6
LOCK B

3' COR UTILITY EASEMENT (TYP.)

CHRISTIAN C. WILDER
CINDY E. WILDER
D.B. 10827 PG. 1494
B.M. 2019 PG. 1188
P.I.N. 1767-39-2260

JOHN L. SHORE
ANNETTE P. SHORE
D.B. 13282 PG. 1145
B.M. 2004 PG. 1971
B.M. 2018 PG. 2221
B.M. 1928 PG. 142
P.I.N. 1767-38-1953

RICO D. GLOVER, SR.
TIFFANY N. GLOVER
D.B. 17360 PG. 1716
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5959

ROBIN RANDALL HORTON SR
MARY HOLLAND
D.B.015132 PG. 00852
B.M. 1987 PG. 331
P.I.N. 1767-38-3542

ALEX ALECIO RODRIGUEZ
D.B. 17334 PG. 9677
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5643

JEFFREY L. MOODY
CINDY T. MOODY
D.B. 3991 PG. 19
B.M. 1987 PG. 331
P.I.N. 1767-38-1305

BENNY L. MOODY
CONNIE G. MOODY
D.B. 3258 PG. 29
B.M. 1981 PG. 653
P.I.N. 1767-38-6477

NOTE: PDD IS PERMANENT DIVERSION DITCH

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50


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American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:21-04'00'

PRELIMINARY
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA
PROFESSIONAL
26528
ENGINEER
JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

**DRAINAGE PLAN A**

SHEET NO.:

**C5.1**

North Carolina 811 811.com
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm


21x0x121-002 Moody Development Tract (R21000)\Engineering\Working Dwgs\Construction Set\C5.0-5.3 Drainage and Grading Plan.dwg April 1, 2025

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50

MATCHLINE AREA C
MATCHLINE AREA D
MATCHLINE AREA A
MATCHLINE AREA B

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

ROBIN RANDALL HORTON SR
MARY HOLLAND
D.B.J019133 PG. 00852
B.M. 1987 PG. 331
P.I.N. 1767-38-3542

ALEX ALECIO RODRIGUEZ
D.B. 17334 PG. 9677
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5643

JEFFREY L. MOODY
CINDY T. MOODY
D.B. 3591 PG. 19
B.M. 1987 PG. 331
P.I.N. 1767-38-1505

BENNY L. MOODY
CONNIE G. MOODY
D.B. 3258 PG. 29
B.M. 1981 PG. 653
P.I.N. 1767-38-5477

PENNINA B. ROWELL
RACHEL K. ROWELL
D.B. 16864 PG. 1066
P.I.N. 1767-37-4878

ROLESVILLE ROAD
(SR#1003-60' NCDOT R/W)
B.M. 1986 PG. 960

#6- For all stem walls: Clarify the extent of the wall on where it starts and stops; Clarify if the stem elevation is the bottom of wall elevation.

1

NOTE: OFFSITE IMPROVEMENTS SHOWN ARE CURRENTLY UNDER CONSTRUCTION AND NCDOT APPROVED ON JUNE 5th AS A PART OF E051-092-24-00303. THE PRESERVE AT MOODY FARM NCDOT IMPROVEMENTS ONLY INCLUDE AN UPDATED DRIVEWAY (IN SAME LOCATION AS EXISTING) AND A WATER CONNECTION.

CB-777 CURRENTLY UNDER CONSTRUCTION, SEE PLANS

SEE "INSET A"

1' COR UTILITY EASEMENT (TYP)

EXISTING CEMETERY

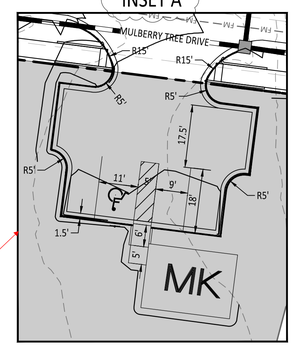
30' LANDSCAPE BUFFER

EXISTING WETLAND

#8- Add spot elevations back into the inset to show grading and drainage patterns; they were previously provided.

NOTE: PDD IS PERMANENT DIVERSION DITCH

INSET A




NOTE: SPOT ELEVATIONS WITHIN PARKING LOT ARE ALONG THE EOP

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20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Raleigh, NC 27607
919-469-1101


NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:22-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER
JAKOB P. KLEIN
052528

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

| | |
|---|---|
| JOB NUMBER: | 21-002 |
| CHECKED BY: | JK |
| DRAWN BY: | RC & SM |
| DATE: | 02/03/2025 |

SHEET TITLE:

**DRAINAGE PLAN B**

SHEET NO.:

**C5.2**

North Carolina 811 It's the Law!
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (RZ100007)\Final_Working Dwgs\Construction Set\C5.0-5.3 Drainage and Grading Plan.dwg April 1, 2025

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

#6- For all stem walls: Clarify the extent of the wall on where it starts and stops; Clarify if the stem elevation is the bottom of wall elevation.

#5- Contours shall be 3:1 or flatter

NOTE: PDD IS PERMANENT DIVERSION DITCH

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50


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4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:23-04'00'

PRELIMINARY
NOT RELEASED FOR CONSTRUCTION
NORTH CAROLINA
PROFESSIONAL ENGINEER
JAKOB P. KLEIN
052528

| NO. | DATE | REVISION: |
|---|---|---|
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# THE PRESERVE AT MOODY FARM

CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

## DRAINAGE PLAN C

SHEET NO.:

**C5.3**

North Carolina 811 811 or 1-800-632-4949

*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm


Z:\Jobs\21-002 Moody Development Trust (9210002)\dwg_Working Dwgs\Construction Set\5.0-5.3 Drainage and Grading Plan.dwg April 1, 2025

MATCHLINE AREA C
MATCHLINE AREA D
MATCHLINE AREA A
MATCHLINE AREA B

#5- Contours shall be 3:1 or flatter.

#9- Low spot is being created with nowhere for drainage to go; please review and revise accordingly.

#6- For all stem walls: Clarify the extent of the wall on where it starts and stops; Clarify if the stem elevation is the bottom of wall elevation.

NOTE: PDD IS PERMANENT DIVERSION DITCH

| SITE LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | SETBACK |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED FENCE |
| | SIGHT TRIANGLE |

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50

MERITAGE HOMES OF THE CAROLINAS INC
D.B. 018789 PG. 02515
B.M. 2016 PG. 38
B.M. 2021 PG. 810
P.I.N. 1762-17-5368


AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450 919-469-1101
Raleigh, NC 27607

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:24-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 052538 JAKOB P. KLEIN


| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**DRAINAGE PLAN D**

SHEET NO.:
**C5.4**

North Carolina 811 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (R3100072)\dwg_ Working Dwgs\Construction Set\5.5-5.3 Drainage and Grading Plan.dwg April 1, 2025

| UTILITY LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED WATERLINE |
| | PROPOSED SEWERLINE |
| | PROPOSED MANHOLE |
| | PROPOSED MANHOLE |
| | PROPOSED WATER METER |
| | PROPOSED SEWER SERVICE |

NOTE: SEE UTILITY 50 SCALE SHEETS FOR EASEMENT AND APPURTENANCE LABELS.

GRAPHIC SCALE

100 0 50 100 200 400

( IN FEET )
1 inch =100

## ATTENTION CONTRACTORS

**The Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Inspector at 919-996-3245 or https://cityworks.raleighnc.gov/pucontractors/New and schedule a Pre-construction meeting prior to beginning any construction.**
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**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # _____

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
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AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:25-04'00'

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA
PROFESSIONAL ENGINEER
26528
JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
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# THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
## OVERALL UTILITIES PLAN

SHEET NO.:
**C6.0**

April 1, 2025
23x36\21-002 Moody Development Tract (8133007)\dwg_Working Dwgs\Construction Set\6 A-Utilities Plan.dwg

MATCHLINE AREA C

MATCHLINE AREA A

MATCHLINE AREA C

MATCHLINE AREA D

MATCHLINE AREA A

MATCHLINE AREA B

20' DRAINAGE EASEMENT

20' DRAINAGE EASEMENT

YI 325A

20' DRAINAGE EASEMENT

MH 2307

MH 2308

OPEN SPACE 7
BLOCK B

20' COR UTILITY EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

CB 325

CB 321

MH 2304
4" BOA
4" G.V.

MH 2305

CB 319

MH 2303
8"x 4" TEE WITH
2-8" GATE VALVE
AND 4" GATE VALVE

MH 2302

VARIABLE WIDTH DRAINAGE EASEMENT

20' DRAINAGE EASEMENT

20' DRAINAGE EASEMENT

YI 316B

315B

CB 315

MH 2301

GREENWAY EASEMENT

MH 2204

EX. POND

3' COR UTILITY EASEMENT

20' DRAINAGE EASEMENT

FES INLET 331

CB 313

CB 312

20' DRAINAGE EASEMENT

OPEN SPACE 6
LOCK B

VARIABLE WIDTH GREENWAY EASEMENT

30' COR UTILITY EASEMENT

30' COR UTILITY EASEMENT

MH 2202

MH 2203

MH 2300

CB 311

20' DRAINAGE EASEMENT

CB 330

CB 309

YI 310

VARIABLE WIDTH DRAINAGE EASEMENT

CB 302

MH 2200

MH 2201

CB 308

VARIABLE WIDTH DRAINAGE EASEMENT

VARIABLE WIDTH GREENWAY EASEMENT

30' COR UTILITY EASEMENT

30' DRAINAGE EASEMENT

CB 304

CB 306

CB 301

CB 307

FES 300

HW FES 603

8"x 6" TEE WITH
2-8" GATE VALVE

SEE NOTE THIS SHEET

SEE NOTE THIS SHEET

SEE NOTE THIS SHEET

CHRISTIAN C. WILDER
CINDY E. WILDER
D.B. 10927 PG. 1494
B.M. 2019 PG. 1188
P.I.N. 1767-39-2260

JOHN L. SHORE
ANNETTE P. SHORE
D.B. 13782,PG. 1145
B.M. 2004 PG. 1971
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-1953

RICO D. GLOVER, SR.
TIFFANY N. GLOVER
D.B. 17360 PG. 1716
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5959

ROBIN RANDALL HORTON SR
MARY HOLLAND
D.B. 019133 PG. 00852
B.M. 1987 PG. 331
P.I.N. 1767-38-3542

ALEX ALECIO RODRIGUEZ
D.B. 17334 PG. 9677
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5943

JEFFREY L. MOODY
CINDY T. MOODY
D.B. 3991 PG. 19
B.M. 1987 PG. 331
P.I.N. 1767-38-1505

BENNY L. MOODY
CONNIE G. MOODY
D.B. 3758 PG. 29
B.M. 1981 PG. 653
P.I.N. 1767-38-6472

WETLANDS (TYP)

LOD

W

SSWR FM
BY OTHERS

8" DIP WATERLINE

## ATTENTION CONTRACTORS

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| UTILITY LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED WATERLINE |
| | PROPOSED SEWERLINE |
| | PROPOSED MANHOLE |
| | PROPOSED MANHOLE |
| | PROPOSED WATER METER |
| | PROPOSED SEWER SERVICE |

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50

**Public**
Sewer Collection / Extension System
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City of Raleigh
Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
811 or 1-800-632-4949

*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm


AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:26-04'00'

PRELIMINARY
NOT FOR RECORDATION
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER
JAKOB P. KLEIN
26528

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

**UTILITY PLAN A**

SHEET NO.:

**C6.1**

April 1, 2025

Z:\Jobs\21-002 Moody Development Trust (P2100023)\dwg_Working Dwgs\Construction Set\6.0 Utilities Plan.dwg

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50

MATCHLINE AREA C
MATCHLINE AREA D

MATCHLINE AREA A
MATCHLINE AREA B

SEE NOTE THIS SHEET

SEE NOTE THIS SHEET

SEE NOTE THIS SHEET

ROBIN RANDALL HORTON SR
MARY HOLLAND
D.B. 019133 PG. 00852
B.M. 1987 PG. 331
P.I.N. 1767-38-3542

ALEX ALECIO RODRIGUEZ
D.B. 17334 PG. 9677
B.M. 2018 PG. 2222
B.M. 1928 PG. 142
P.I.N. 1767-38-5643

JEFFREY L. MOODY
CINDY T. MOODY
D.B. 3991 PG. 19
B.M. 1987 PG. 331
P.I.N. 1767-38-1505

BENNY L. MOODY
CONNIE G. MOODY
D.B. 3758 PG. 29
B.M. 1981 PG. 653
P.I.N. 1767-38-5477

PENNINA B. ROWELL
RACHEL K. ROWELL
D.B. 16967 PG. 1066
P.I.N. 1767-37-4878

ROLESVILLE ROAD
(SR#1003 60' NCDOT R/W)
B.M 1986 PG. 968

| UTILITY LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED WATERLINE |
| | PROPOSED SEWERLINE |
| | PROPOSED MANHOLE |
| | PROPOSED MANHOLE |
| | PROPOSED WATER METER |
| | PROPOSED SEWER SERVICE |

NOTE: OFFSITE IMPROVEMENTS SHOWN ARE CURRENTLY UNDER CONSTRUCTION AND NCDOT APPROVED ON JUNE 5th AS A PART OF E051-092-24-00303. THE PRESERVE AT MOODY FARM NCDOT IMPROVEMENTS ONLY INCLUDE AN UPDATED DRIVEWAY (IN SAME LOCATION AS EXISTING) AND A WATER CONNECTION.

NOTE:
1. UTILITY SERVICES OF EXISTING PROPERTIES SHALL BE CONFIRMED PRIOR TO CONSTRUCTION TO ENSURE PROPOSED DEVELOPMENT IS NOT IN CONFLICT. CONTACT AMERICAN ENGINEERING IF THERE ARE ANY DISCREPENCIES.

***ATTENTION CONTRACTORS***

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**Public**
Sewer Collection / Extension System
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City of Raleigh
Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
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City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
*** 3 Days Before Digging ***
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811 or 1-800-632-4949
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AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:27-04'00'

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION
PROFESSIONAL ENGINEER
SEAL 052528
JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

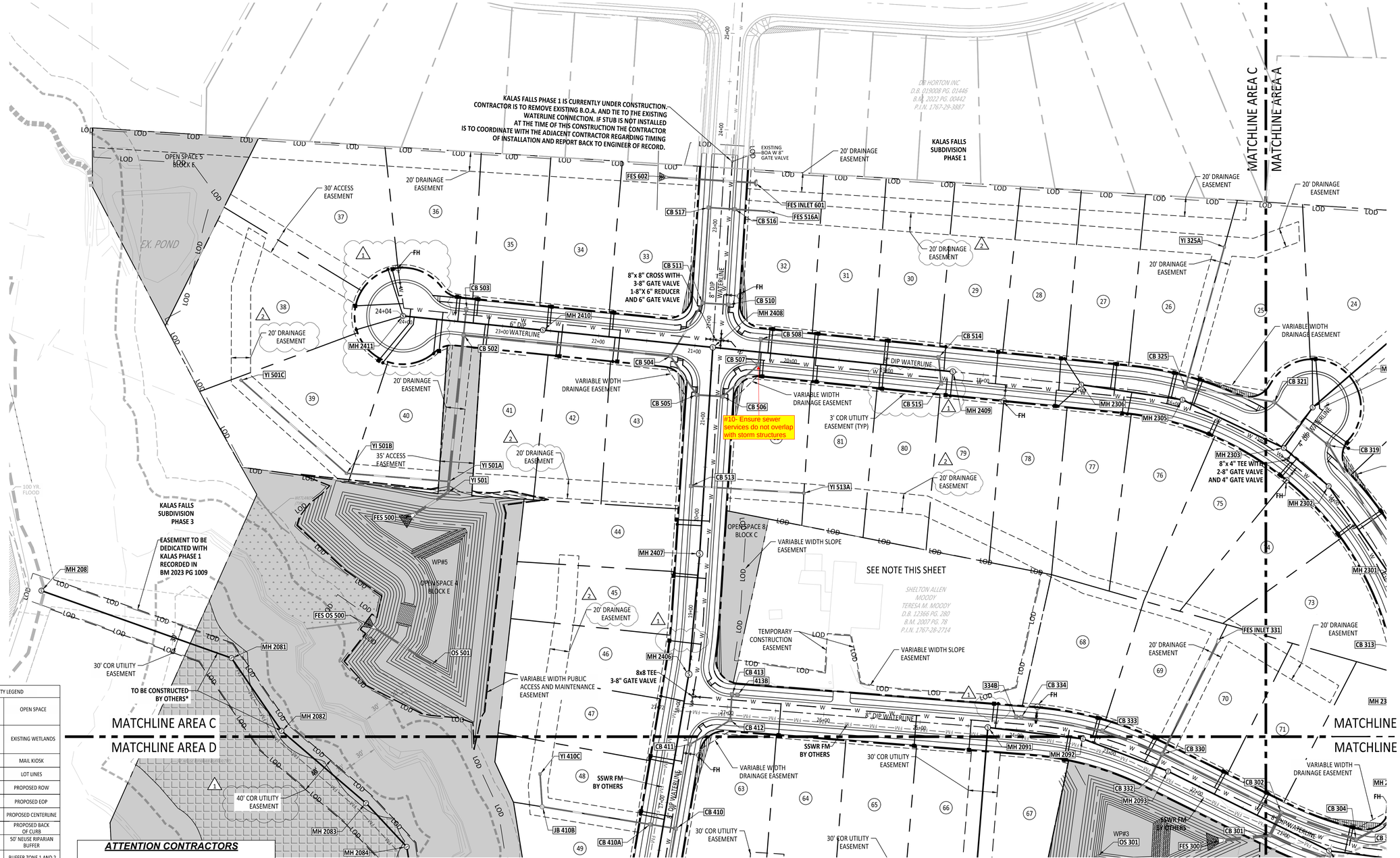
SHEET TITLE:

**UTILITY PLAN B**

SHEET NO.:

**C6.2**

Z:\Jobs\21-002 Moody Development Tract II\210002\Dwg_Working Dwgs\Construction Set\0-03-Utilities Plan.dwg
April 1, 2025




| UTILITY LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED WATERLINE |
| | PROPOSED SEWERLINE |
| | PROPOSED MANHOLE |
| | PROPOSED MANHOLE |
| | PROPOSED WATER METER |
| | PROPOSED SEWER SERVICE |

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )

1 inch = 50

NOTE:

1. UTILITY SERVICES OF EXISTING PROPERTIES SHALL BE CONFIRMED PRIOR TO CONSTRUCTION TO ENSURE PROPOSED DEVELOPMENT IS NOT IN CONFLICT. CONTACT AMERICAN ENGINEERING IF THERE ARE ANY DISCREPENCIES.
2. WATER MAIN AT TINSLEY CREST LOOP WILL BE CONSTRUCTED TO THE EXISTING BOA WITH KALAS FALLS PHASE 1. WE'RE ANTICIPATING CONSTRUCTION OF FM TO BE DONE PRIOR TO THE CONSTRUCTION OF THIS PROJETCT.

***ATTENTION CONTRACTORS***

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Sewer Collection / Extension System
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City of Raleigh Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # _____

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North Carolina 811
811 or 1-800-632-4949
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AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:28-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER
JAKOB P. KLEIN
045228

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

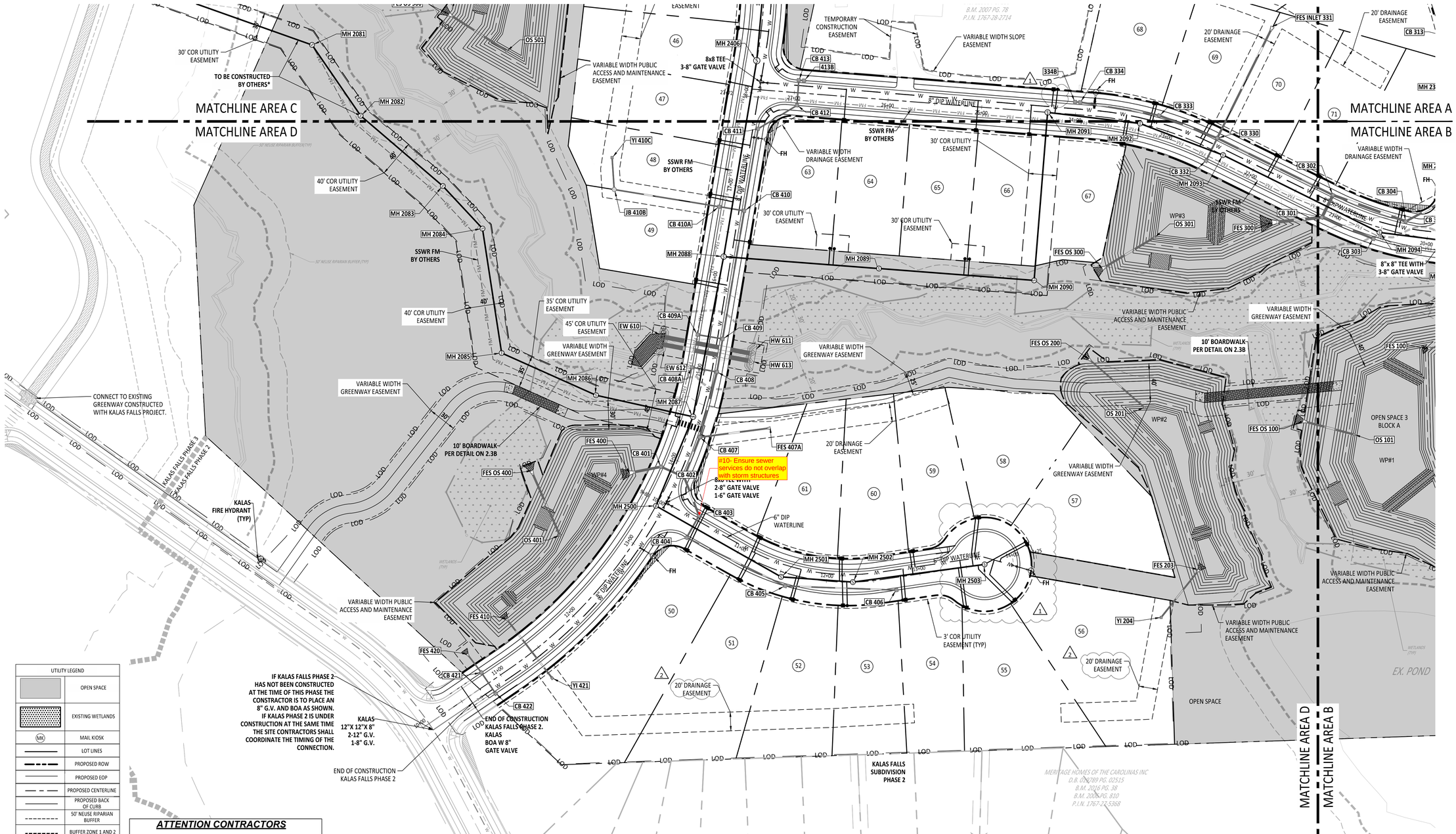
SHEET TITLE:

**UTILITY PLAN C**

SHEET NO.:

**C6.3**

Z:\Jobs\21-002 Moody Development Tract II\2100027\Awg_Working Dwg\Construction Set\6.0-Utilities Plan.dwg April 1, 2025




| UTILITY LEGEND | |
|---|---|
| | OPEN SPACE |
| | EXISTING WETLANDS |
| MK | MAIL KIOSK |
| | LOT LINES |
| | PROPOSED ROW |
| | PROPOSED EOP |
| | PROPOSED CENTERLINE |
| | PROPOSED BACK OF CURB |
| | 50' NEUSE RIPARIAN BUFFER |
| | BUFFER ZONE 1 AND 2 |
| | TOP OF CREEK |
| | PROPOSED SCM |
| | PROPOSED WATERLINE |
| | PROPOSED SEWERLINE |
| | PROPOSED MANHOLE |
| | PROPOSED MANHOLE |
| | PROPOSED WATER METER |
| | PROPOSED SEWER SERVICE |

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50

## *ATTENTION CONTRACTORS*

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City of Raleigh
Public Utilities Department Permit # _____

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City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
*** 3 Days Before Digging ***
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811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:29-04'00'

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 053268 JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

**UTILITY PLAN D**

SHEET NO.:

**C6.4**

April 1, 2025

Z:\Jobs\21-002 Moody Development Tract (8310003)\Dwg_Working Dwgs\Construction Set\6.0-Utilities Plan.dwg

## RIP RAP DISSIPATER CALCULATIONS 10-YEAR STORM

| OUTLET ID | PIPE DIAMETER (IN) | PIPE VELOCITY (FPS) | STONE CLASS | STONE DEPTH (IN) | STONE MATERIAL (TONS) | GEO-TEXTILE (SY) | START WIDTH (FT) | END WIDTH (FT) | LENGTH (FT) |
|---|---|---|---|---|---|---|---|---|---|
| FES 100 | 18 | 6.40 | B | 12 | 2 | 7 | 3 | 9 | 6 |
| FES 125 | 24 | 3.36 | B | 12 | 3 | 11 | 4 | 12 | 8 |
| FES OS 100 | 24 | 2.99 | B | 12 | 3 | 11 | 4 | 12 | 8 |
| FES 110 | 18 | 3.65 | B | 12 | 2 | 7 | 3 | 9 | 5 |
| FES 120 | 15 | 2.45 | B | 12 | 2 | 7 | 2.5 | 7.5 | 5 |
| EW 101 | 36 | 4.69 | I | 18 | 13 | 30 | 6 | 18 | 12 |
| FES OS 200 | 18 | 1.12 | B | 12 | 2 | 7 | 3 | 9 | 6 |
| FES 203 | 18 | 2.53 | B | 12 | 2 | 7 | 3 | 9 | 6 |
| FES 300 | 36 | 3.54 | I | 18 | 10 | 23 | 6 | 18 | 12 |
| FES OS 300 | 24 | 8.21 | I | 18 | 4 | 12 | 4 | 12 | 8 |
| FES 400 | 24 | 3.26 | B | 12 | 3 | 11 | 4 | 12 | 8 |
| FES OS 400 | 24 | 6.40 | B | 12 | 3 | 11 | 4 | 12 | 8 |
| FES 410 | 18 | 3.71 | B | 12 | 2 | 7 | 3 | 9 | 6 |
| FES 420 | 15 | 0.49 | B | 12 | 2 | 7 | 2.5 | 7.5 | 5 |
| FES 500 | 30 | 5.26 | B | 12 | 5 | 16 | 5 | 15 | 10 |
| FES OS 500 | 24 | 3.88 | B | 12 | 3 | 11 | 4 | 12 | 8 |
| FES 602 | 18 | 4.12 | B | 12 | 3 | 10 | 3 | 9 | 6 |
| EW 610 | 54 (DBL) | 7.33 | I | 18 | 40 | 75 | 16 | 16 | 40 |

CALCULATIONS WERE DETERMINED FROM NCDOT DETAIL 876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS

VALUES SHOWN IN TABLE ABOVE ARE MINIMUM QUANTITIES AND DIMENSIONS

WOD IS ABBREVIATION FOR WIDTH OF DITCH

DBL IS DOUBLE BARELL PIPE

## 10-YEAR EROSION & SEDIMENT CONTROL PERMANENT DIVERSION DITCH CALCULATIONS (3:1 SIDE SLOPES)

| PDD # | DRAINAGE AREA (AC) | AVERAGE SLOPE (%) | WIDTH (FT) | DEPTH (FT) | $V_{10}$ (FT/S) | CALCULATED $\tau$ ($LBS/FT^3$) | RECOMMENDED LINER | LINER ALLOWABLE $\tau$ ($LBS/FT^3$) |
|---|---|---|---|---|---|---|---|---|
| 1A | 3.90 | 1.30 | 12 | 2 | 3.49 | 1.62 | AM. EXCELSIOR CO; CURLEX II.98; 2 NETS | 2.00 |
| 1B | 0.86 | 1.84 | 9 | 1.5 | 2.69 | 1.72 | AM. EXCELSIOR CO; CURLEX II.98; 2 NETS | 2.00 |
| 2 | 0.76 | 3.00 | 9 | 1.5 | 3.22 | 2.81 | AM. EXCELSIOR CO; CURLEX HV; 2 NETS | 3.00 |
| 3A | 2.39 | 1.84 | 9 | 1.5 | 3.47 | 1.72 | AM. EXCELSIOR CO; CURLEX II.98; 2 NETS | 2.00 |
| 3B | 0.58 | 3.43 | 9 | 1.5 | 3.16 | 3.21 | PROFILE/ENKAMAT; 7003 | 5.00 |
| 3C | 0.59 | 1.64 | 9 | 1.5 | 2.42 | 1.54 | AM. EXCELSIOR CO; CURLEX II.98; 2 NETS | 2.00 |
| 3D | 0.72 | 1.00 | 9 | 1.5 | 2.10 | 0.94 | SEED & MULCH | 1.50 |
| 4A | 1.33 | 2.73 | 9 | 1.5 | 3.58 | 2.56 | AM. EXCELSIOR CO; CURLEX HV; 2 NETS | 3.00 |
| 4B | 1.03 | 1.11 | 9 | 1.5 | 2.43 | 1.04 | SEED & MULCH | 1.50 |
| 5A | 1.42 | 3.16 | 9 | 1.5 | 3.69 | 2.96 | AM. EXCELSIOR CO; CURLEX HV; 2 NETS | 3.00 |
| 5B | 0.73 | 1.46 | 9 | 1.5 | 2.47 | 1.37 | SEED & MULCH | 1.50 |
| 5C | 0.75 | 3.85 | 9 | 1.5 | 3.52 | 3.60 | PROFILE/ENKAMAT; 7003 | 5.00 |
| 5D | 1.42 | 0.70 | 12 | 2 | 0.94 | 0.87 | SEED & MULCH | 1.50 |
| 6 | 1.58 | 3.16 | 9 | 1.5 | 3.77 | 2.96 | AM. EXCELSIOR CO; CURLEX HV; 2 NETS | 3.00 |
| 7 | 2.86 | 5.00 | 9 | 1.5 | 5.79 | 4.68 | PROFILE/ENKAMAT; 7003 | 5.00 |

NOTE: ALL PERMANENT DIVERSION DITCHES (TDD) ARE TRAPEZOIDAL.
TRACTIVE FORCE, $\tau$, IS CALCULATED USING: $\tau = (\gamma)(D_{CHAN})(S_{CHAN})$
WHERE:

- $\gamma$ IS THE UNIT WEIGHT OF WATER (ASSUMED TO BE 62.4 $LB/FT^3$)
- $D_{CHAN}$ IS THE DEPTH OF FLOW IN THE CHANNEL (FT/FT)
- $S_{CHAN}$ IS THE SLOPE OF THE CHANNEL (FT/FT)

PLEASE SEE PERMANENT DITCH NOMENCLATURE ON GRADING ENLARGEMENT SHEETS WITHIN THE PLANSET.

2

## SSWR - STRUCTURE TABLE

| STRUCTURE NAME: | DESCRIPTION | PIPES IN: | PIPES OUT |
|---|---|---|---|
| MH 208 | SSWR MH 4'<br>RIM = 342.80<br>INV IN = 334.53 | 8" PVC INV.=334.53 | |
| MH 2081 | SSWR MH 4'<br>RIM = 346.57<br>INV IN = 335.99<br>INV OUT = 335.79 | 8" PVC INV.=335.99 | 8" PVC INV.=335.79 |
| MH 2082 | SSWR MH 4'<br>RIM = 347.52<br>INV IN = 338.24<br>INV OUT = 338.04 | 8" PVC INV.=338.24 | 8" PVC INV.=338.04 |
| MH 2083 | SSWR MH 4'<br>RIM = 347.50<br>INV IN = 340.17<br>INV OUT = 339.97 | 8" PVC INV.=340.17 | 8" PVC INV.=339.97 |
| MH 2084 | SSWR MH 4'<br>RIM = 348.65<br>INV IN = 341.01<br>INV OUT = 340.81 | 8" PVC INV.=341.01 | 8" PVC INV.=340.81 |
| MH 2085 | SSWR MH 4'<br>RIM = 352.24<br>INV IN = 341.94<br>INV OUT = 341.74 | 8" PVC INV.=341.94 | 8" PVC INV.=341.74 |
| MH 2086 | SSWR MH 4'<br>RIM = 354.57<br>INV IN = 342.75<br>INV OUT = 342.55 | 8" SDR 26 INV.=342.75 | 8" PVC INV.=342.55 |
| MH 2087 | SSWR MH 5'<br>RIM = 362.30<br>INV IN = 345.06<br>INV IN = 343.50<br>INV OUT = 343.30 | 8" SDR 26 INV.=345.06<br>8" SDR 26 INV.=343.50 | 8" SDR 26 INV.=343.30 |
| MH 2088 | SSWR MH 5'<br>RIM = 363.68<br>INV IN = 345.20<br>INV IN = 345.20<br>INV OUT = 344.54 | 8" SDR 26 INV.=345.20<br>8" DIP INV.=345.20 | 8" SDR 26 INV.=344.54 |
| MH 2089 | SSWR MH 4'<br>RIM = 357.54<br>INV IN = 349.32<br>INV OUT = 349.12 | 8" PVC INV.=349.32 | 8" SDR 26 INV.=349.12 |
| MH 2090 | SSWR MH 4'<br>RIM = 357.70<br>INV IN = 351.18<br>INV OUT = 350.98 | 8" PVC INV.=351.18 | 8" PVC INV.=350.98 |
| MH 2091 | SSWR MH 5'<br>RIM = 368.52<br>INV IN = 356.32<br>INV OUT = 356.02 | 8" SDR 26 INV.=356.32 | 8" PVC INV.=356.02 |
| MH 2092 | SSWR MH 4'<br>RIM = 367.80<br>INV IN = 357.02<br>INV OUT = 356.82 | 8" PVC INV.=357.02 | 8" SDR 26 INV.=356.82 |
| MH 2093 | SSWR MH 4'<br>RIM = 366.85<br>INV IN = 357.69<br>INV OUT = 357.49 | 8" PVC INV.=357.69 | 8" PVC INV.=357.49 |
| MH 2094 | SSWR MH 4'<br>RIM = 366.59<br>INV IN = 358.90<br>INV OUT = 358.70 | 8" PVC INV.=358.90 | 8" PVC INV.=358.70 |
| MH 2095 | SSWR MH 4'<br>RIM = 367.73<br>INV IN = 359.71<br>INV IN = 359.51<br>INV OUT = 359.31 | 8" PVC INV.=359.71<br>8" PVC INV.=359.51 | 8" PVC INV.=359.31 |
| MH 2096 | SSWR MH 4'<br>RIM = 373.78<br>INV IN = 363.42<br>INV IN = 364.03<br>INV OUT = 362.33 | 8" PVC INV.=363.42<br>8" PVC INV.=364.03 | 8" PVC INV.=362.33 |
| MH 2097 | SSWR MH 4'<br>RIM = 381.39<br>INV IN = 372.29<br>INV OUT = 372.09 | 8" PVC INV.=372.29 | 8" PVC INV.=372.09 |
| MH 2098 | SSWR MH 4'<br>RIM = 388.87<br>INV IN = 377.92<br>INV OUT = 377.67 | 8" PVC INV.=377.92 | 8" PVC INV.=377.67 |
| MH 2099 | SSWR MH 4'<br>RIM = 387.14<br>INV IN = 378.78<br>INV OUT = 378.58 | 8" PVC INV.=378.78 | 8" PVC INV.=378.58 |
| MH 2100 | SSWR MH 4'<br>RIM = 386.29<br>INV OUT = 379.34 | | 8" PVC INV.=379.34 |
| MH 2110 | SSWR MH 4'<br>RIM = 375.00<br>INV IN = 366.12<br>INV OUT = 365.92 | 8" PVC INV.=366.12 | 8" PVC INV.=365.92 |
| MH 2111 | SSWR MH 4'<br>RIM = 374.79<br>INV IN = 367.08<br>INV OUT = 366.88 | 8" PVC INV.=367.08 | 8" PVC INV.=366.88 |
| MH 2112 | SSWR MH 4'<br>RIM = 374.00<br>INV OUT = 367.56 | | 8" PVC INV.=367.56 |
| MH 2200 | SSWR MH 4'<br>RIM = 368.37<br>INV IN = 361.77<br>INV IN = 360.27<br>INV OUT = 360.07 | 8" PVC INV.=361.77<br>8" PVC INV.=360.27 | 8" PVC INV.=360.07 |

## SSWR - STRUCTURE TABLE

| STRUCTURE NAME: | DESCRIPTION | PIPES IN: | PIPES OUT |
|---|---|---|---|
| MH 2201 | SSWR MH 4'<br>RIM = 372.52<br>INV IN = 364.50<br>INV OUT = 362.80 | 8" PVC INV.=364.50 | 8" PVC INV.=362.80 |
| MH 2202 | SSWR MH 4'<br>RIM = 377.50<br>INV IN = 365.86<br>INV IN = 366.45<br>INV OUT = 365.66 | 8" SDR 26 INV.=365.86<br>8" PVC INV.=366.45 | 8" PVC INV.=365.66 |
| MH 2203 | SSWR MH 5'<br>RIM = 387.82<br>INV OUT = 369.38 | | 8" SDR 26 INV.=369.38 |
| MH 2204 | SSWR MH 4'<br>RIM = 379.49<br>INV OUT = 366.88 | | 8" PVC INV.=366.88 |
| MH 2300 | SSWR MH 4'<br>RIM = 373.31<br>INV IN = 366.20<br>INV OUT = 366.00 | 8" PVC INV.=366.20 | 8" PVC INV.=366.00 |
| MH 2301 | SSWR MH 4'<br>RIM = 375.81<br>INV IN = 368.57<br>INV OUT = 368.37 | 8" PVC INV.=368.57 | 8" PVC INV.=368.37 |
| MH 2302 | SSWR MH 4'<br>RIM = 376.97<br>INV IN = 369.64<br>INV OUT = 369.44 | 8" PVC INV.=369.64 | 8" PVC INV.=369.44 |
| MH 2303 | SSWR MH 4'<br>RIM = 377.58<br>INV IN = 370.14<br>INV IN = 370.50<br>INV OUT = 369.94 | 8" PVC INV.=370.14<br>8" PVC INV.=370.50 | 8" PVC INV.=369.94 |
| MH 2304 | SSWR MH 4'<br>RIM = 380.19<br>INV IN = 372.33<br>INV OUT = 371.27 | 8" SDR 26 INV.=372.33 | 8" PVC INV.=371.27 |
| MH 2305 | SSWR MH 4'<br>RIM = 378.75<br>INV IN = 371.92<br>INV OUT = 370.72 | 8" PVC INV.=371.92 | 8" PVC INV.=370.72 |
| MH 2306 | SSWR MH 4'<br>RIM = 378.50<br>INV OUT = 372.45 | | 8" PVC INV.=372.45 |
| MH 2307 | SSWR MH 5'<br>RIM = 392.73<br>INV IN = 377.89<br>INV OUT = 377.69 | 8" SDR 26 INV.=377.89 | 8" SDR 26 INV.=377.69 |
| MH 2308 | SSWR MH 4'<br>RIM = 385.18<br>INV OUT = 380.00 | | 8" SDR 26 INV.=380.00 |
| MH 2406 | SSWR MH 6'<br>RIM = 370.35<br>INV IN = 346.56<br>INV OUT = 346.36 | 8" DIP INV.=346.56 | 8" DIP INV.=346.36 |
| MH 2407 | SSWR MH 6'<br>RIM = 369.82<br>INV IN = 347.39<br>INV OUT = 347.19 | 8" DIP INV.=347.39 | 8" DIP INV.=347.19 |
| MH 2408 | SSWR MH 5'<br>RIM = 367.77<br>INV IN = 350.46<br>INV IN = 348.66<br>INV OUT = 348.46 | 8" SDR 26 INV.=350.46<br>8" SDR 26 INV.=348.66 | 8" DIP INV.=348.46 |
| MH 2409 | SSWR MH 5'<br>RIM = 374.76<br>INV OUT = 357.25 | | 8" SDR 26 INV.=357.25 |
| MH 2410 | SSWR MH 4'<br>RIM = 359.99<br>INV IN = 349.74<br>INV OUT = 349.54 | 8" PVC INV.=349.74 | 8" SDR 26 INV.=349.54 |
| MH 2411 | SSWR MH 4'<br>RIM = 358.00<br>INV OUT = 350.47 | | 8" PVC INV.=350.47 |
| MH 2500 | SSWR MH 4'<br>RIM = 363.57<br>INV IN = 352.85<br>INV OUT = 352.65 | 8" PVC INV.=352.85 | 8" SDR 26 INV.=352.65 |
| MH 2501 | SSWR MH 4'<br>RIM = 367.90<br>INV IN = 359.70<br>INV OUT = 359.50 | 8" PVC INV.=359.70 | 8" PVC INV.=359.50 |
| MH 2502 | SSWR MH 4'<br>RIM = 370.88<br>INV IN = 361.52<br>INV OUT = 361.32 | 8" PVC INV.=361.52 | 8" PVC INV.=361.32 |
| MH 2503 | SSWR MH 4'<br>RIM = 373.79<br>INV OUT = 364.20 | | 8" PVC INV.=364.20 |

**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:30-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045281 JAKOB P. KLEIN

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**SCHEDULE**

SHEET NO.:
**C7.0**

## SCM 1 - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| 121B | CB 121 | 15" | 6.49 | 1.00% | 370.61 | 370.67 |
| CB 101 | FES 100 | 18" | 229.12 | 2.20% | 363.00 | 368.04 |
| CB 102 | CB 101 | 18" | 27.00 | 0.52% | 368.14 | 368.28 |
| CB 103 | CB 102 | 18" | 45.91 | 3.27% | 368.48 | 369.98 |
| CB 104 | CB 103 | 15" | 27.00 | 0.52% | 370.18 | 370.32 |
| CB 105 | CB 103 | 15" | 244.37 | 2.92% | 370.18 | 377.31 |
| CB 106 | CB 105 | 15" | 27.04 | 0.63% | 378.23 | 378.40 |
| CB 106A | CB 106 | 15" | 6.01 | 0.50% | 378.50 | 378.53 |
| CB 107 | CB 105 | 15" | 252.43 | 2.98% | 377.41 | 384.92 |
| CB 111 | FES 110 | 18" | 96.03 | 0.58% | 380.50 | 381.06 |
| CB 111A | CB 111 | 15" | 5.93 | 0.50% | 381.16 | 381.19 |
| CB 114 | CB 111 | 15" | 107.82 | 1.00% | 381.26 | 382.34 |
| CB 115 | CB 114 | 15" | 27.00 | 0.50% | 382.54 | 382.67 |
| CB 116 | CB 115 | 15" | 59.00 | 0.50% | 382.88 | 383.18 |
| CB 121 | FES 120 | 15" | 94.32 | 0.50% | 369.93 | 370.41 |
| * CB 122 | CB 121 | 15" | 59.04 | 0.50% | 370.61 | 370.90 |
| DI 126 | FES 125 | 24" | 41.51 | 0.50% | 363.50 | 363.71 |
| FES 115 | CB 115 | 15" | 139.35 | 0.50% | 382.78 | 383.48 |

## SCM 1 Outfall - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| OS 101 | FES OS 100 | 24" | 56.33 | 1.33% | 359.00 | 359.75 |

## SCM 2 - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| YI 204 | FES 203 | 18" | 64.79 | 1.16% | 361.50 | 362.25 |

## SCM 2 Outfall - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| OS 201 | FES OS 200 | 18" | 78.75 | 0.95% | 357.00 | 357.75 |

## SCM 3 - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| 315B | CB 315 | 18" | 5.80 | 0.50% | 370.94 | 370.97 |
| 334B | CB 334 | 15" | 5.49 | 1.00% | 364.16 | 364.21 |
| * CB 301 | FES 300 | 36" | 53.32 | 0.50% | 360.94 | 361.21 |
| * CB 302 | CB 301 | 36" | 26.58 | 0.50% | 361.31 | 361.44 |
| * CB 303 | CB 301 | 24" | 59.39 | 0.50% | 1 362.30 | 362.60 |
| * CB 304 | CB 302 | 30" | 82.34 | 0.50% | 361.64 | 362.05 |
| CB 305 | CB 306 | 15" | 27.00 | 1.16% | 364.58 | 364.89 |
| CB 306 | CB 308 | 24" | 43.54 | 0.50% | 363.24 | 363.46 |
| * CB 307 | CB 304 | 24" | 50.86 | 0.50% | 1 362.25 | 362.50 |
| * CB 308 | CB 307 | 24" | 27.00 | 0.50% | 362.70 | 362.84 |
| CB 309 | CB 308 | 24" | 59.52 | 2.91% | 363.34 | 365.07 |
| CB 311 | CB 309 | 18" | 63.41 | 2.96% | 365.17 | 367.05 |
| CB 312 | CB 311 | 18" | 59.35 | 2.83% | 367.25 | 368.93 |
| CB 313 | CB 312 | 15" | 27.00 | 0.67% | 369.94 | 370.12 |
| CB 315 | CB 312 | 18" | 73.13 | 1.55% | 369.03 | 370.16 |
| CB 319 | 315B | 18" | 152.71 | 0.50% | 370.97 | 371.73 |
| CB 321 | CB 319 | 15" | 72.18 | 0.76% | 373.45 | 374.00 |
| CB 325 | CB 321 | 15" | 92.96 | 0.50% | 374.60 | 375.06 |
| * CB 330 | CB 302 | 24" | 137.22 | 0.50% | 361.64 | 362.33 |
| CB 332 | CB 330 | 18" | 27.00 | 0.50% | 363.50 | 363.64 |
| CB 333 | CB 330 | 24" | 66.36 | 0.50% | 363.00 | 363.33 |
| CB 334 | CB 333 | 18" | 85.14 | 0.50% | 363.53 | 363.96 |
| FES INLET 331 | CB 330 | 24" | 132.30 | 0.50% | 363.12 | 363.78 |
| YI 310 | CB 309 | 15" | 163.44 | 1.00% | 365.80 | 367.43 |
| YI 316B | CB 315 | 15" | 112.85 | 1.18% | 371.88 | 373.21 |
| YI 325A | CB 325 | 15" | 150.51 | 0.50% | 375.27 | 376.02 |

## SCM 3 Outfall - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| OS 301 | FES OS 300 | 24" | 64.87 | 1.16% | 357.00 | 357.75 |

## Culvert Crossing - West - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| HW 611 | EW 610 | 54" | 91.55 | 1.09% | 347.00 | 348.00 |
| HW 613 | EW 612 | 54" | 91.55 | 1.09% | 347.00 | 348.00 |

## Bypass - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| CB 421 | FES 420 | 15" | 24.87 | 0.50% | 356.16 | 356.28 |
| CB 422 | CB 421 | 15" | 27.01 | 0.50% | 356.41 | 356.55 |
| FES INLET 601 | FES 602 | 18" | 93.42 | 5.50% | 364.86 | 370.00 |

## SCM 4 Outfall - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| OS 401 | FES OS 400 | 24" | 75.13 | 0.50% | 353.37 | 353.75 |

## SCM 4 - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| 413B | CB 413 | 15" | 5.61 | 1.00% | 365.29 | 365.35 |
| CB 401 | FES 400 | 30" | 34.25 | 0.50% | 357.00 | 357.17 |
| CB 402 | CB 401 | 24" | 27.00 | 0.50% | 357.26 | 357.40 |
| CB 403 | CB 402 | 24" | 43.91 | 0.50% | 357.60 | 357.82 |
| CB 404 | CB 403 | 18" | 27.00 | 1.00% | 358.02 | 358.29 |
| CB 405 | CB 404 | 15" | 116.82 | 3.00% | 358.79 | 362.29 |
| CB 406 | CB 405 | 15" | 118.49 | 3.00% | 363.30 | 366.85 |
| CB 407 | CB 402 | 24" | 45.60 | 0.50% | 357.60 | 357.83 |
| * CB 408 | CB 407 | 24" | 71.73 | 0.50% | 357.93 | 358.29 |
| CB 408A | CB 408 | 15" | 27.00 | 0.72% | 358.68 | 358.88 |
| * CB 409 | CB 408 | 18" | 35.77 | 0.50% | 358.49 | 358.67 |
| CB 409A | CB 409 | 15" | 27.00 | 0.50% | 358.97 | 359.11 |
| * CB 410 | CB 409 | 18" | 138.24 | 1.00% | 358.87 | 360.25 |
| CB 410A | CB 410 | 15" | 26.98 | 0.50% | 360.45 | 360.58 |
| CB 411 | CB 410 | 15" | 88.56 | 4.21% | 360.58 | 364.31 |
| CB 412 | CB 411 | 15" | 48.25 | 0.50% | 364.51 | 364.75 |
| CB 413 | CB 412 | 15" | 26.99 | 0.50% | 364.95 | 365.08 |
| FES 407A | CB 407 | 18" | 75.64 | 0.50% | 358.53 | 358.91 |
| JB 410B | CB 410A | 15" | 113.24 | 0.50% | 360.69 | 361.26 |
| YI 410C | JB 410B | 15" | 34.09 | 0.50% | 361.36 | 361.53 |
| YI 421 | FES 410 | 18" | 79.66 | 0.50% | 356.95 | 357.35 |

## SCM 5 - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| CB 502 | YI 501A | 30" | 152.25 | 2.00% | 347.61 | 350.65 |
| CB 503 | CB 502 | 15" | 27.00 | 0.52% | 353.30 | 353.44 |
| CB 504 | CB 502 | 24" | 215.40 | 4.69% | 351.06 | 361.17 |
| CB 505 | CB 504 | 18" | 48.26 | 0.99% | 361.37 | 361.85 |
| CB 506 | CB 505 | 18" | 27.00 | 0.50% | 362.35 | 362.49 |
| CB 507 | CB 506 | 15" | 49.03 | 0.50% | 362.69 | 362.94 |
| CB 508 | CB 507 | 15" | 27.00 | 0.50% | 363.14 | 363.28 |
| CB 510 | CB 511 | 15" | 27.00 | 0.89% | 364.00 | 364.24 |
| CB 511 | CB 504 | 15" | 64.21 | 1.32% | 362.27 | 363.12 |
| CB 513 | CB 505 | 15" | 94.51 | 0.50% | 362.69 | 363.16 |
| CB 514 | CB 508 | 15" | 184.91 | 3.50% | 363.48 | 369.95 |
| CB 515 | CB 514 | 15" | 27.53 | 1.00% | 370.15 | 370.43 |
| CB 516 | CB 517 | 15" | 27.00 | 1.50% | 367.09 | 367.49 |
| CB 517 | CB 511 | 15" | 98.95 | 3.00% | 363.62 | 366.59 |
| FES 516A | CB 516 | 15" | 36.50 | 1.62% | 367.70 | 368.29 |
| YI 501 | FES 500 | 30" | 45.55 | 0.50% | 346.92 | 347.15 |
| YI 501A | YI 501 | 30" | 11.31 | 0.50% | 347.35 | 347.41 |
| YI 501B | YI 501A | 15" | 106.33 | 0.50% | 347.82 | 348.35 |
| YI 501C | YI 501B | 15" | 145.49 | 0.50% | 348.45 | 349.18 |
| YI 513A | CB 513 | 15" | 117.13 | 0.50% | 363.36 | 363.95 |

## SCM 5 Outfall - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| OS 501 | FES OS 500 | 24" | 72.88 | 1.00% | 343.02 | 343.75 |

## Culvert Crossing - East - PIPE SUMMARY

| UPSTREAM STRUCTURE | DOWNSTREAM STRUCTURE | PIPE SIZE | LENGTH | SLOPE | DOWNSTREAM INVERT (FT) | UPSTREAM INVERT (FT) |
|---|---|---|---|---|---|---|
| HW FES 603 | JB 602 | 36" | 82.14 | 1.78% | 365.04 | 366.50 |
| JB 602 | EW 101 | 36" | 67.94 | 0.50% | 364.50 | 364.84 |

*DENOTES CLASS IV RCP (ALL STORM DRAINAGE PIPES ARE TO BE RCP CLASS III OTHERWISE)

1 2

### SCM 1 - Structure Table

| Structure Name | Details |
|---|---|
| 121B | RIM = 374.00<br>INV OUT = 370.67 |
| CB 101 | RIM = 373.98<br>INV IN = 368.14<br>INV OUT = 368.04 |
| CB 102 | RIM = 373.87<br>INV IN = 368.48<br>INV OUT = 368.28 |
| CB 103 | RIM = 375.04<br>INV IN = 370.18<br>INV IN = 370.18<br>INV OUT = 369.98 |
| CB 104 | RIM = 375.04<br>INV OUT = 370.32 |
| CB 105 | RIM = 382.61<br>INV IN = 377.41<br>INV IN = 378.23<br>INV OUT = 377.31 |
| CB 106 | RIM = 382.57<br>INV IN = 378.50<br>INV OUT = 378.40 |
| CB 106A | RIM = 382.92<br>INV OUT = 378.53 |
| CB 107 | RIM = 390.04<br>INV OUT = 384.92 |
| CB 111 | RIM = 385.25<br>INV IN = 381.26<br>INV IN = 381.16<br>INV OUT = 381.06 |
| CB 111A | RIM = 385.25<br>INV OUT = 381.19 |
| CB 114 | RIM = 387.03<br>INV IN = 382.54<br>INV OUT = 382.34 |
| CB 115 | RIM = 387.04<br>INV IN = 382.88<br>INV IN = 382.78<br>INV OUT = 382.67 |
| CB 116 | RIM = 387.89<br>INV OUT = 383.18 |
| CB 121 | RIM = 374.00<br>INV IN = 370.61<br>INV IN = 370.61<br>INV OUT = 370.41 |
| CB 122 | RIM = 374.05<br>INV OUT = 370.90 |
| DI 126 | RIM = 366.59<br>INV OUT = 363.71 |
| FES 100 | INV IN = 363.00 |
| FES 110 | INV IN = 380.50 |
| FES 115 | INV OUT = 383.48 |
| FES 120 | INV IN = 369.93 |
| FES 125 | INV IN = 363.50 |

### SCM 1 Outfall - Structure Table

| Structure Name | Details |
|---|---|
| FES OS 100 | INV IN = 359.00 |
| OS 101 | RIM = 362.00<br>INV OUT = 359.75 |

### SCM 2 - Structure Table

| Structure Name | Details |
|---|---|
| FES 203 | INV IN = 361.50 |
| YI 204 | RIM = 366.26<br>INV OUT = 362.25 |

### SCM 2 Outfall - Structure Table

| Structure Name | Details |
|---|---|
| FES OS 200 | INV IN = 357.00 |
| OS 201 | RIM = 359.46<br>INV OUT = 357.75 |

### SCM 3 - Structure Table

| Structure Name | Details |
|---|---|
| 315B | RIM = 376.00<br>INV IN = 370.97<br>INV OUT = 370.97 |
| 334B | RIM = 368.78<br>INV OUT = 364.21 |
| CB 301 | RIM = 366.14<br>INV IN = 361.31<br>INV IN = 362.30<br>INV OUT = 361.21 |
| CB 302 | RIM = 366.04<br>INV IN = 361.64<br>INV IN = 361.64<br>INV OUT = 361.44 |
| CB 303 | RIM = 366.75<br>INV OUT = 362.60 |
| CB 304 | RIM = 366.98<br>INV IN = 362.25<br>INV OUT = 362.05 |
| CB 305 | RIM = 368.93<br>INV OUT = 364.89 |
| CB 306 | RIM = 368.91<br>INV IN = 364.58<br>INV OUT = 363.46 |
| CB 307 | RIM = 367.04<br>INV IN = 362.70<br>INV OUT = 362.50 |
| CB 308 | RIM = 367.09<br>INV IN = 363.34<br>INV IN = 363.24<br>INV OUT = 362.84 |
| CB 309 | RIM = 370.03<br>INV IN = 365.17<br>INV IN = 365.80<br>INV OUT = 365.07 |
| CB 311 | RIM = 373.00<br>INV IN = 367.25<br>INV OUT = 367.05 |
| CB 312 | RIM = 374.74<br>INV IN = 369.03<br>INV IN = 369.94<br>INV OUT = 368.93 |
| CB 313 | RIM = 374.73<br>INV OUT = 370.12 |
| CB 315 | RIM = 375.97<br>INV IN = 370.94<br>INV IN = 371.88<br>INV OUT = 370.16 |
| CB 319 | RIM = 377.02<br>INV IN = 373.45<br>INV OUT = 371.73 |
| CB 321 | RIM = 378.00<br>INV IN = 374.60<br>INV OUT = 374.00 |
| CB 325 | RIM = 378.78<br>INV IN = 375.27<br>INV OUT = 375.06 |
| CB 330 | RIM = 367.00<br>INV IN = 363.00<br>INV IN = 363.12<br>INV IN = 363.50<br>INV OUT = 362.33 |
| CB 332 | RIM = 367.03<br>INV OUT = 363.64 |
| CB 333 | RIM = 367.90<br>INV IN = 363.53<br>INV OUT = 363.33 |
| CB 334 | RIM = 368.63<br>INV IN = 364.16<br>INV OUT = 363.96 |
| FES 300 | INV IN = 360.94 |
| FES INLET 331 | INV OUT = 363.78 |
| YI 310 | RIM = 370.35<br>INV OUT = 367.43 |
| YI 316B | RIM = 376.09<br>INV OUT = 373.21 |
| YI 325A | RIM = 379.46<br>INV OUT = 376.02 |

### SCM 3 Outfall - Structure Table

| Structure Name | Details |
|---|---|
| FES OS 300 | INV IN = 357.00 |
| OS 301 | RIM = 360.00<br>INV OUT = 357.75 |

### SCM 4 - Structure Table

| Structure Name | Details |
|---|---|
| 413B | RIM = 369.03<br>INV OUT = 365.35 |
| CB 401 | RIM = 363.04<br>INV IN = 357.26<br>INV OUT = 357.17 |
| CB 402 | RIM = 363.02<br>INV IN = 357.60<br>INV IN = 357.60<br>INV OUT = 357.40 |
| CB 403 | RIM = 362.71<br>INV IN = 358.02<br>INV OUT = 357.82 |
| CB 404 | RIM = 362.73<br>INV IN = 358.79<br>INV OUT = 358.29 |
| CB 405 | RIM = 368.09<br>INV IN = 363.30<br>INV OUT = 362.29 |
| CB 406 | RIM = 372.03<br>INV OUT = 366.85 |
| CB 407 | RIM = 362.81<br>INV IN = 357.93<br>INV IN = 358.53<br>INV OUT = 357.83 |
| CB 408 | RIM = 362.39<br>INV IN = 358.68<br>INV IN = 358.49<br>INV OUT = 358.29 |
| CB 408A | RIM = 361.81<br>INV OUT = 358.88 |
| CB 409 | RIM = 362.56<br>INV IN = 358.97<br>INV IN = 358.87<br>INV OUT = 358.67 |
| CB 409A | RIM = 362.04<br>INV OUT = 359.11 |
| CB 410 | RIM = 365.52<br>INV IN = 360.58<br>INV IN = 360.45<br>INV OUT = 360.25 |
| CB 410A | RIM = 365.51<br>INV IN = 360.69<br>INV OUT = 360.58 |
| CB 411 | RIM = 368.85<br>INV IN = 364.51<br>INV OUT = 364.31 |
| CB 412 | RIM = 369.03<br>INV IN = 364.95<br>INV OUT = 364.75 |
| CB 413 | RIM = 369.03<br>INV IN = 365.29<br>INV OUT = 365.08 |
| FES 400 | INV IN = 357.00 |
| FES 407A | INV OUT = 358.91 |
| FES 410 | INV IN = 356.95 |
| JB 410B | RIM = 366.21<br>INV IN = 361.36<br>INV OUT = 361.26 |
| YI 410C | RIM = 363.50<br>INV OUT = 361.53 |
| YI 421 | RIM = 359.68<br>INV OUT = 357.35 |

### SCM 4 Outfall - Structure Table

| Structure Name | Details |
|---|---|
| FES OS 400 | INV IN = 353.37 |
| OS 401 | RIM = 356.00<br>INV OUT = 353.75 |

### SCM 5 - Structure Table

| Structure Name | Details |
|---|---|
| CB 502 | RIM = 357.04<br>INV IN = 351.06<br>INV IN = 353.30<br>INV OUT = 350.65 |
| CB 503 | RIM = 357.04<br>INV OUT = 353.44 |
| CB 504 | RIM = 366.04<br>INV IN = 361.37<br>INV IN = 362.27<br>INV OUT = 361.17 |
| CB 505 | RIM = 367.77<br>INV IN = 362.35<br>INV IN = 362.69<br>INV OUT = 361.85 |
| CB 506 | RIM = 367.48<br>INV IN = 362.69<br>INV OUT = 362.49 |
| CB 507 | RIM = 367.00<br>INV IN = 363.14<br>INV OUT = 362.94 |
| CB 508 | RIM = 367.00<br>INV IN = 363.48<br>INV OUT = 363.28 |
| CB 510 | RIM = 368.57<br>INV OUT = 364.24 |
| CB 511 | RIM = 368.61<br>INV IN = 364.00<br>INV IN = 363.62<br>INV OUT = 363.12 |
| CB 513 | RIM = 368.66<br>INV IN = 363.36<br>INV OUT = 363.16 |
| CB 514 | RIM = 374.03<br>INV IN = 370.15<br>INV OUT = 369.95 |
| CB 515 | RIM = 374.10<br>INV OUT = 370.43 |
| CB 516 | RIM = 371.63<br>INV IN = 367.70<br>INV OUT = 367.49 |
| CB 517 | RIM = 371.62<br>INV IN = 367.09<br>INV OUT = 366.59 |
| FES 500 | INV IN = 346.92 |
| FES 516A | INV OUT = 368.29 |
| YI 501 | RIM = 350.87<br>INV IN = 347.35<br>INV OUT = 347.15 |
| YI 501A | RIM = 351.17<br>INV IN = 347.61<br>INV IN = 347.82<br>INV OUT = 347.41 |
| YI 501B | RIM = 351.81<br>INV IN = 348.45<br>INV OUT = 348.35 |
| YI 501C | RIM = 353.72<br>INV OUT = 349.18 |
| YI 513A | RIM = 367.63<br>INV OUT = 363.95 |

### Bypass - Structure Table

| Structure Name | Details |
|---|---|
| CB 421 | RIM = 360.04<br>INV IN = 356.41<br>INV OUT = 356.28 |
| CB 422 | RIM = 360.04<br>INV OUT = 356.55 |
| FES 420 | INV IN = 356.16 |
| FES 602 | INV IN = 364.86 |
| FES INLET 601 | INV OUT = 370.00 |

### SCM 5 Outfall - Structure Table

| Structure Name | Details |
|---|---|
| FES OS 500 | INV IN = 343.02 |
| OS 501 | RIM = 346.00<br>INV OUT = 343.75 |

### Culvert Crossing - West - Structure Table

| Structure Name | Details |
|---|---|
| EW 610 | INV IN = 347.00 |
| EW 612 | |
| HW 611 | INV OUT = 348.00 |
| HW 613 | |

### Culvert Crossing - East - Structure Table

| Structure Name | Details |
|---|---|
| EW 101 | INV IN = 364.50 |
| HW FES 603 | INV OUT = 366.50 |
| JB 602 | RIM = 371.24<br>INV IN = 365.04<br>INV OUT = 364.84 |

#11- Repeat: Ensure min drop requirements in storm structures are met (CB309, CB312, etc.)
~0.1ft for 0-45 degrees
~0.2ft for 45-90 degrees and increases in pipe size


AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:31-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA PROFESSIONAL ENGINEER 045528 JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE


THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.


THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

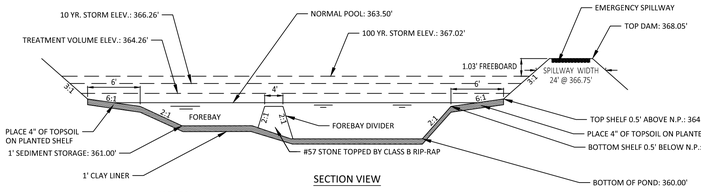
SHEET TITLE:

**SCHEDULE**

SHEET NO.:

**C7.1**

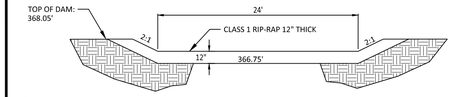

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm



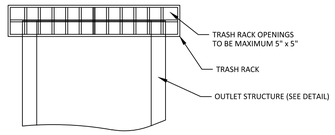

SECTION VIEW

NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

## 01 RETENTION POND
NTS

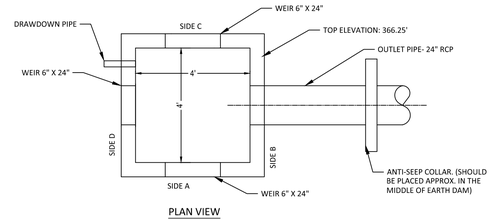



## 02 EMERGENCY SPILLWAY SECTION
NTS



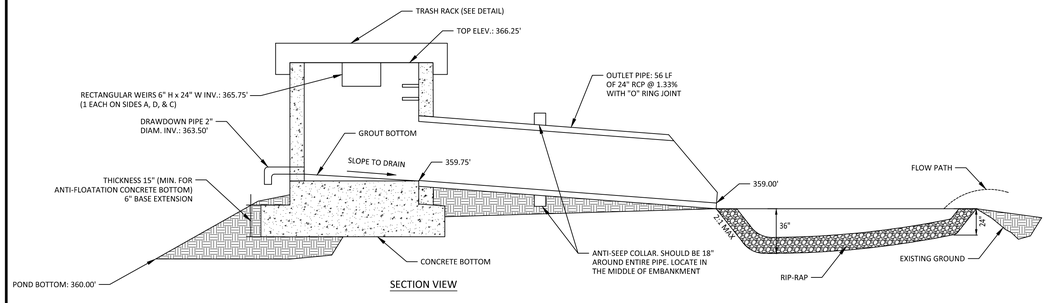

NOTES:
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
2. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
3. TRASH RACK SHALL ACCOMMODATE VALVE SHAFT THOUGH AN OPENING.
4. TRASH RACK SHALL BE MADE OF DURABLE MATERIAL WHICH WILL NOT RUST OR DETERIORATE IN SUNLIGHT.
5. TOP OF TRASH RACK SHALL HAVE A GRID OF BARS (MAX. 6"x6").

## 03 TRASH RACK
NTS



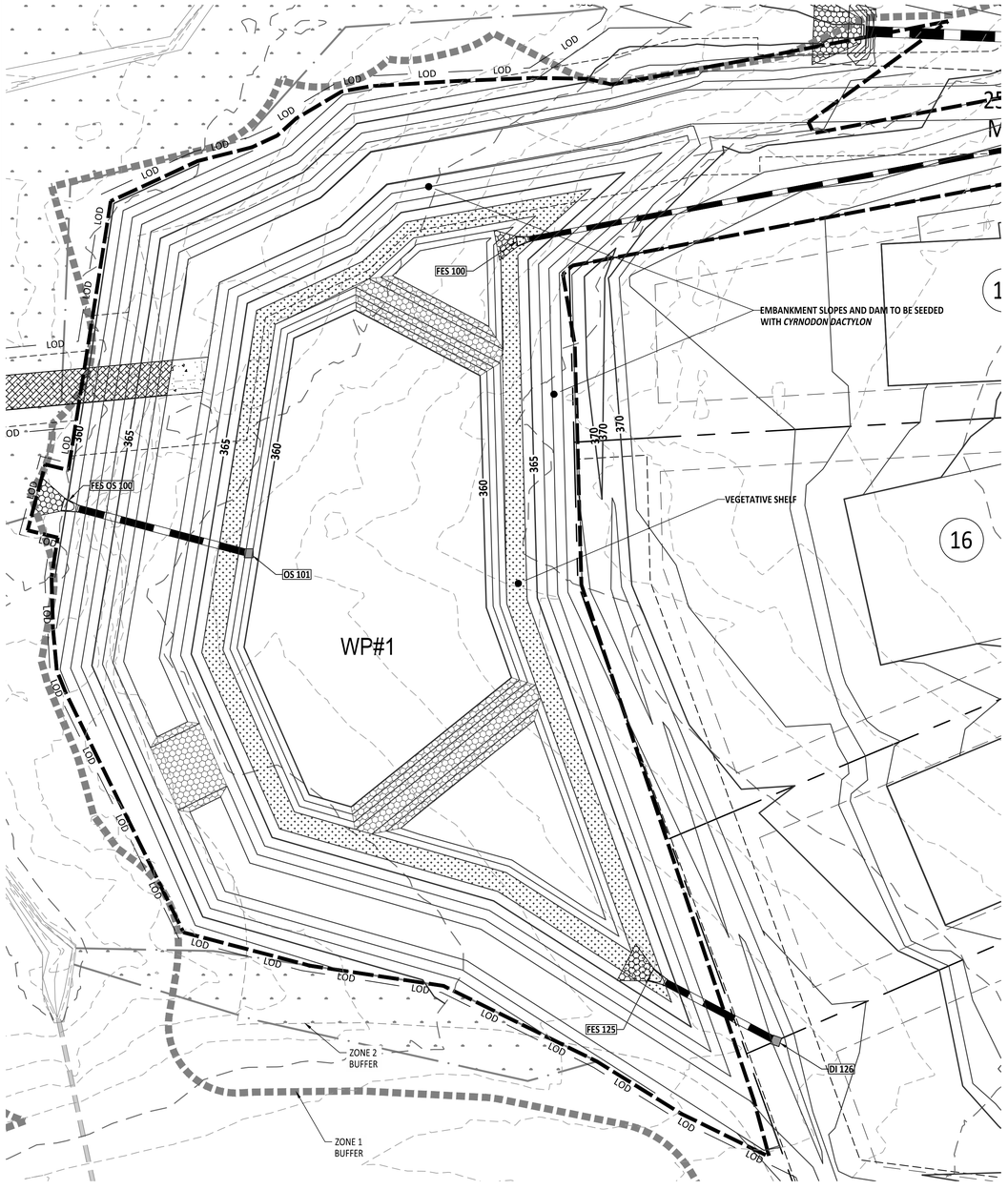

PLAN VIEW

NOTES:
1. WALL THICKNESS AND REINFORCEMENT TO BE DETERMINED BY PRECAST CONCRETE MANUFACTURER.
2. OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, THE EXCESS OPENING SHALL BE FILLED WITH GROUT.
3. OUTLET PIPES SHALL HAVE AN ANTI-SEEP COLLAR OF CONCRETE LOCATED APPROXIMATELY UNDER THE MIDDLE OF THE DAM IN WHICH IT IS LOCATED. IT SHALL CONSIST OF CONCRETE POURED AROUND THE PIPE IN A VERTICAL DIRECTION. THE COLLAR SHALL BE A SQUARE 8" THICK AND SHALL EXTEND 18" BEYOND THE OUTSIDE OF THE PIPE IN EACH DIRECTION.
4. TREATMENT OUTLET PIPE SHALL NOT BE PVC BUT OTHER MATERIAL SUCH AS GSP WHICH IS NOT SUBJECT TO DETERIORATION IN SUNLIGHT.




SECTION VIEW

## 04 OUTLET STRUCTURE #1
NTS




PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF (HERB.)

| | | | |
|---|---|---|---|
| EF | EUPATORIUM FISTRULOSUM | JOE PYE WEED | 4-6" POT @ 3' SPACING |
| HC | HIBICUS COCCINEA | SCARLET ROSE MALLOW | 4-6" POT @ 3' SPACING |
| CG | CHELONE GLABRA | WHITE TURTLEHEAD | 4-6" POT @ 3' SPACING |
| LC | LOBELIA CARDINALIS | CARDINAL FLOWER | 4-6" POT @ 3' SPACING |

LANDSCAPE PLAN:

VEGETATED SHELF= 3,503 sf (USE 876 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:33-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045281 JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

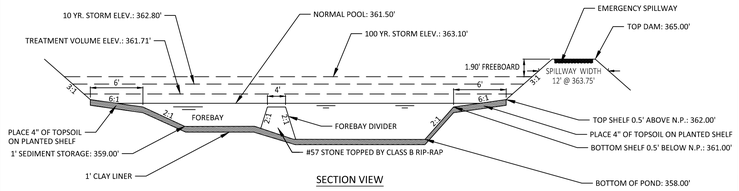
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**SCM 1**

SHEET NO.:
**C8.0**

April 1, 2025

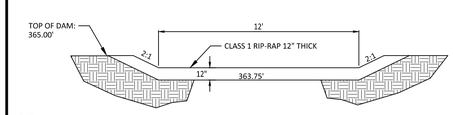
Z:\Job\21-002 Moody Development Tract (R)\100\05\dwg_ Working Dwgs\Construction Set\8.0 8.1 SCM Plan.dwg



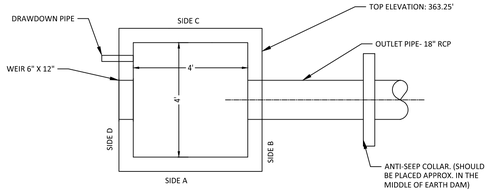

SECTION VIEW

NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

## 01 RETENTION POND
NTS

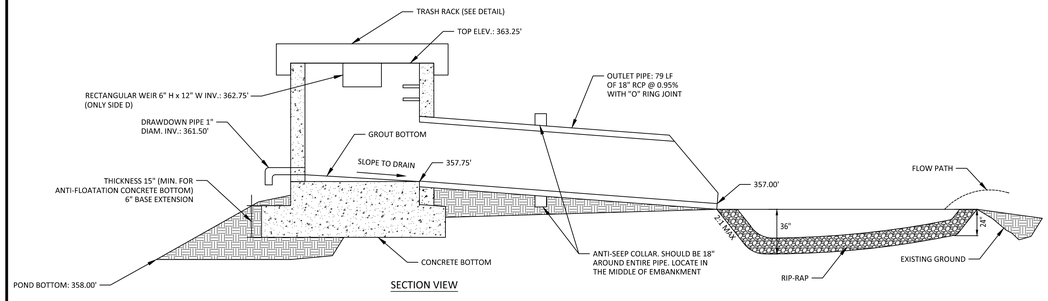



## 02 EMERGENCY SPILLWAY SECTION
NTS



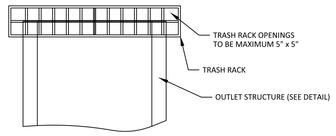

PLAN VIEW

NOTES:
1. WALL THICKNESS AND REINFORCEMENT TO BE DETERMINED BY PRECAST CONCRETE MANUFACTURER.
2. OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, THE EXCESS OPENING SHALL BE FILLED WITH GROUT.
3. OUTLET PIPES SHALL HAVE AN ANTI-SEEP COLLAR OF CONCRETE LOCATED APPROXIMATELY UNDER THE MIDDLE OF THE DAM IN WHICH IT IS LOCATED. IT SHALL CONSIST OF CONCRETE POURED AROUND THE PIPE IN A VERTICAL DIRECTION. THE COLLAR SHALL BE A SQUARE 8" THICK AND SHALL EXTEND 18" BEYOND THE OUTSIDE OF THE PIPE IN EACH DIRECTION.
4. TREATMENT OUTLET PIPE SHALL NOT BE PVC BUT OTHER MATERIAL SUCH AS GSP WHICH IS NOT SUBJECT TO DETERIORATION IN SUNLIGHT.



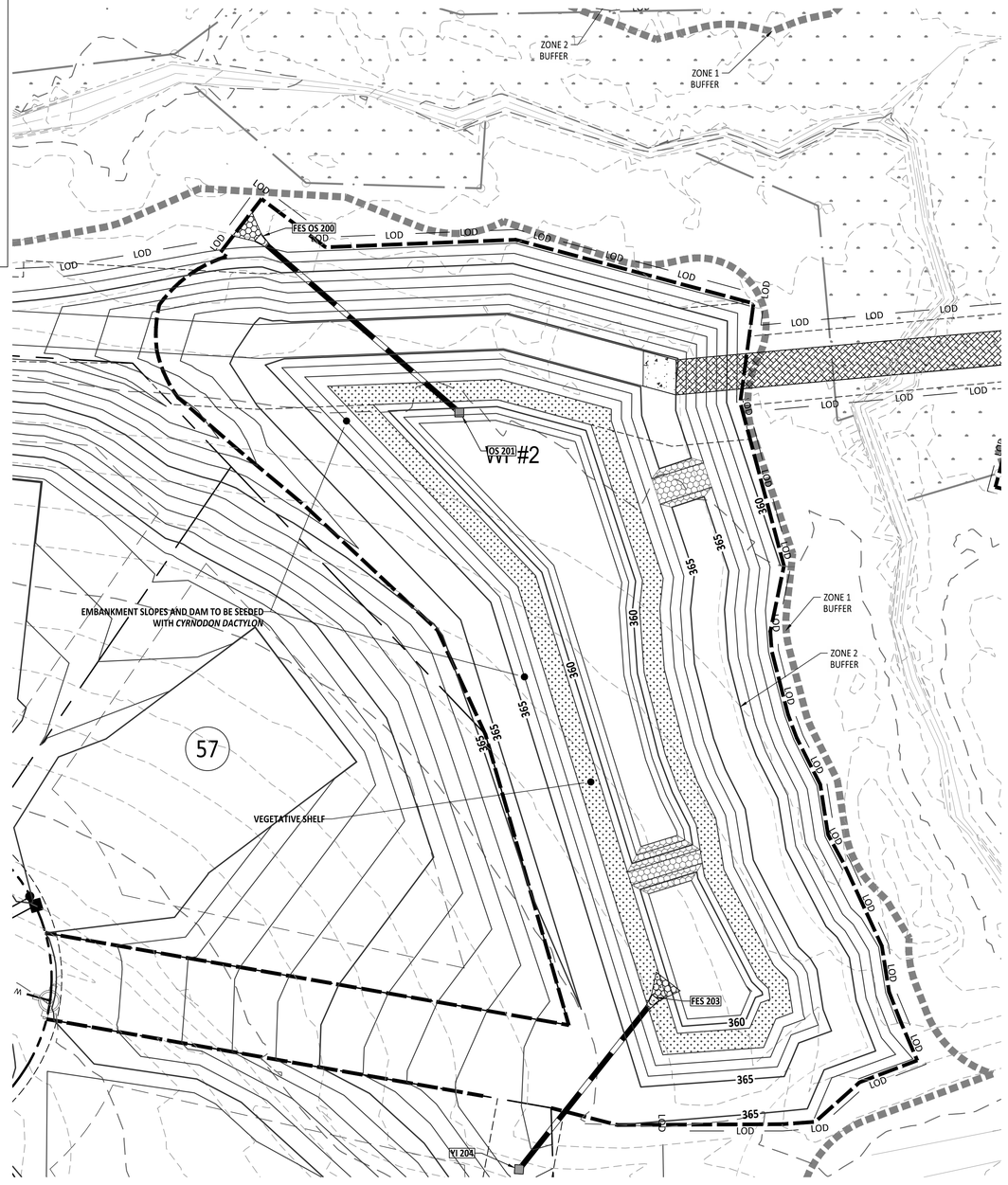

SECTION VIEW

## 04 OUTLET STRUCTURE #2
NTS




NOTES:
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
2. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
3. TRASH RACK SHALL ACCOMMODATE VALVE SHAFT THOUGH AN OPENING.
4. TRASH RACK SHALL BE MADE OF DURABLE MATERIAL WHICH WILL NOT RUST OR DETERIORATE IN SUNLIGHT.
5. TOP OF TRASH RACK SHALL HAVE A GRID OF BARS (MAX. 6"x6").

## 03 TRASH RACK
NTS




PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)
EF EUPATORUIM FISTRULOSUM JOE PYE WEED 4-6" POT @ 3' SPACING
HC HIBICUS COCCINEA SCARLET ROSE MALLOW 4-6" POT @ 3' SPACING
CG CHELONE GLABRA WHITE TURTLEHEAD 4-6" POT @ 3' SPACING
LC LOBELIA CARDINALIS CARDINAL FLOWER 4-6" POT @ 3' SPACING

LANDSCAPE PLAN:

VEGETATED SHELF= 3,100 sf (USE 775 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

GRAPHIC SCALE
20 0 10 20 40 80
( IN FEET )
1 inch = 20

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suites 450 919-469-1101
Raleigh, NC 27607

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 13:34:04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

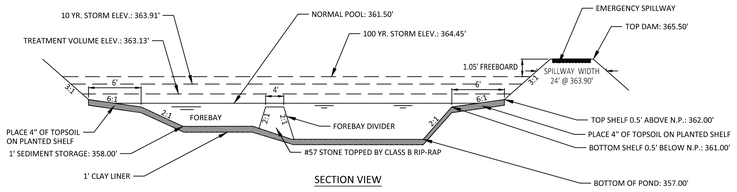
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**SCM 2**

SHEET NO.:
**C8.1**

North Carolina 811 Before You Dig
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

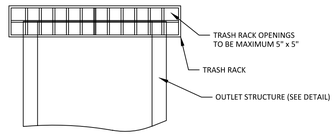
April 3, 2025
Z:\Jobs\21-002 Moody Development Trust (R2100027)\dwg_Working Dwgs\Construction Set\8.0 & 1 SCM Plan.dwg




SECTION VIEW

NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

## 01 RETENTION POND
NTS




NOTES:
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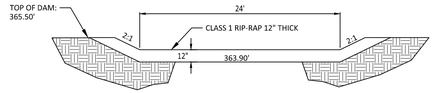
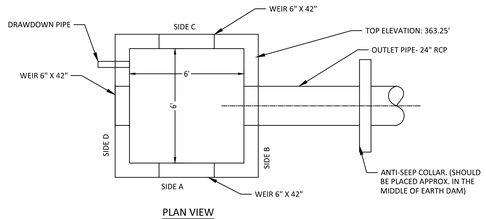
## 02 TRASH RACK
NTS




## 03 EMERGENCY SPILLWAY SECTION
NTS




PLAN VIEW

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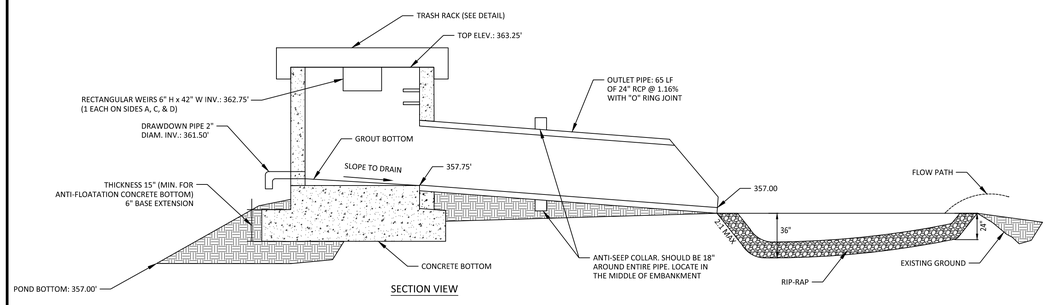
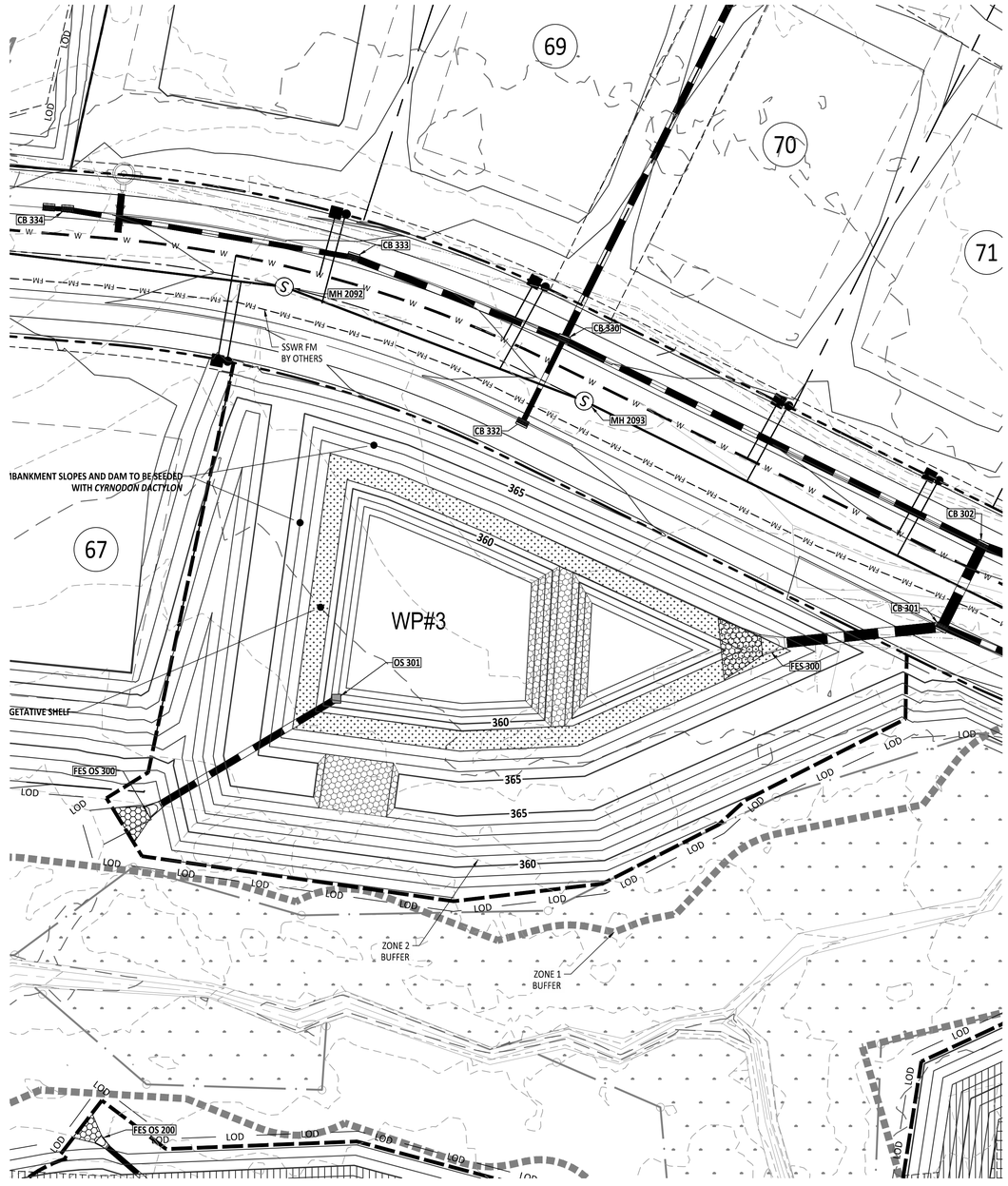



SECTION VIEW

## 04 OUTLET STRUCTURE #3
NTS




BANKMENT SLOPES AND DAM TO BE SEEDED WITH *CYNODON DACTYLON*

GETATIVE SHELF

PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF (HERB.)

| | | | |
|---|---|---|---|
| EF | EUPATORUIM FISTRULOSUM | JOE PYE WEED | 4-6" POT @ 3' SPACING |
| HC | HIBICUS COCCINEA | SCARLET ROSE MALLOW | 4-6" POT @ 3' SPACING |
| CG | CHELONE GLABRA | WHITE TURTLEHEAD | 4-6" POT @ 3' SPACING |
| LC | LOBELIA CARDINALIS | CARDINAL FLOWER | 4-6" POT @ 3' SPACING |

LANDSCAPE PLAN:

VEGETATED SHELF= 2,109 sf (USE 528 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:35-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

**SCM 3**

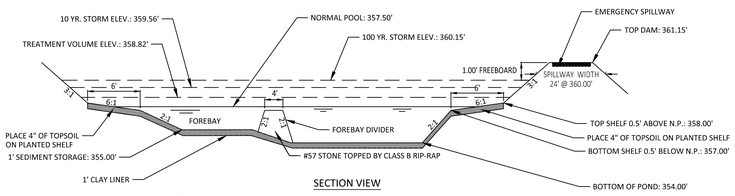
SHEET NO.:

**C8.2**

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

April 1, 2025

Z:\Jobs\21-002 Moody Development Tract 8\210027\Dwg_Working Dwgs\Construction Set\8.0 & 1 SCM Plan.dwg




SECTION VIEW

NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
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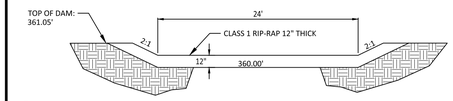
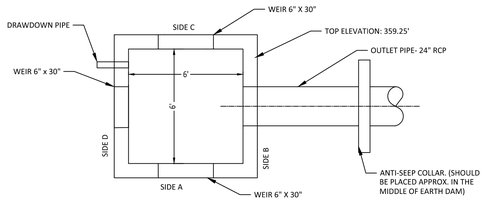
## 01 RETENTION POND
NTS




## 03 EMERGENCY SPILLWAY SECTION
NTS




PLAN VIEW

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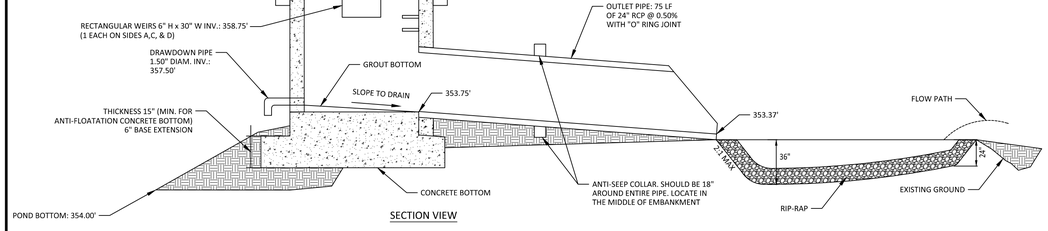
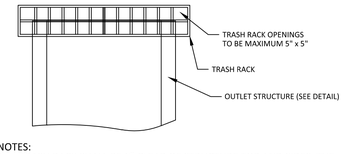



SECTION VIEW

## 04 OUTLET STRUCTURE #4
NTS

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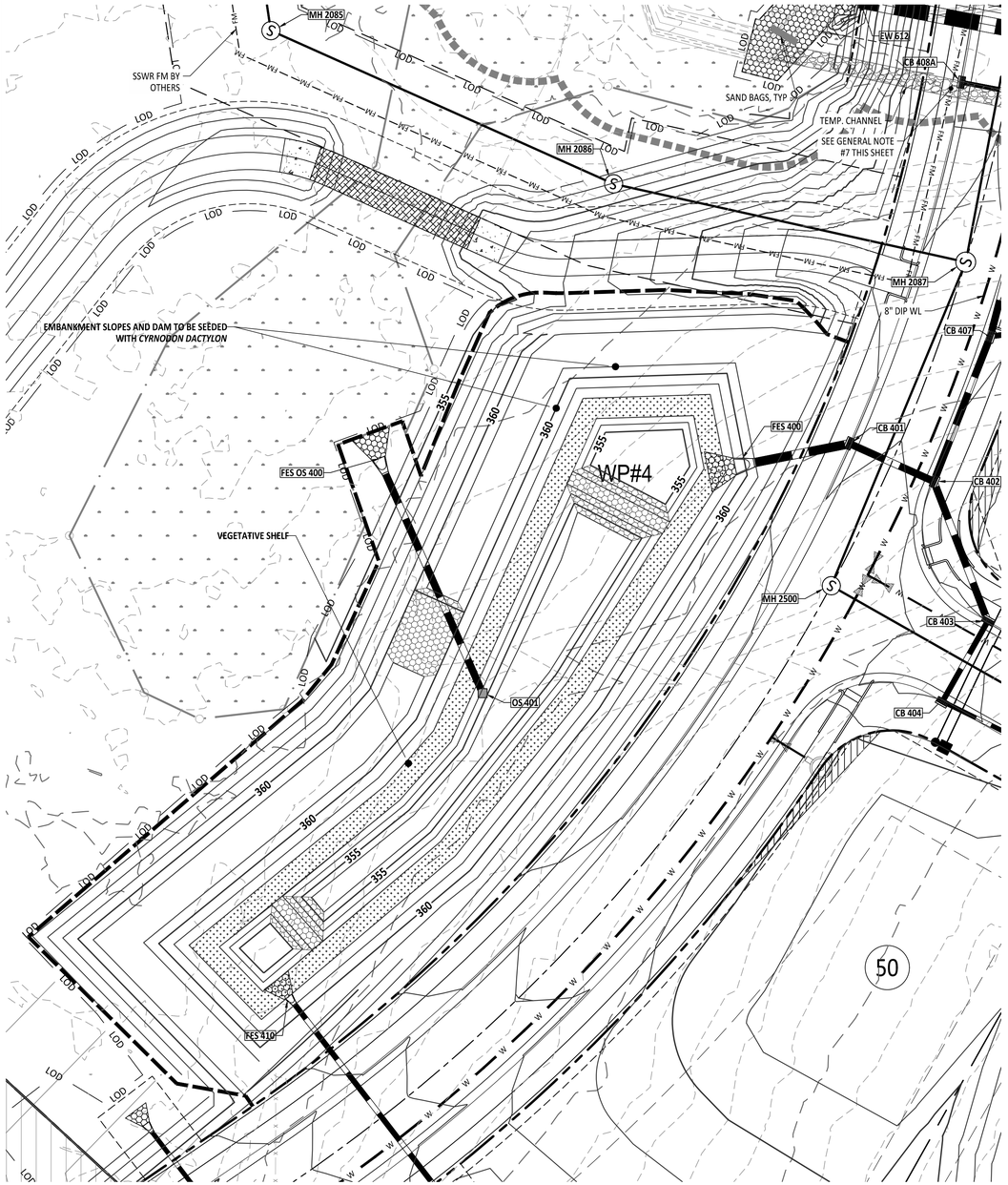
## 02 TRASH RACK
NTS




PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

| | | | |
|---|---|---|---|
| EF | EUPATORUIM FISTRULOSUM | JOE PYE WEED | 4-6" POT @ 3' SPACING |
| HC | HIBICUS COCCINEA | SCARLET ROSE MALLOW | 4-6" POT @ 3' SPACING |
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| LC | LOBELIA CARDINALIS | CARDINAL FLOWER | 4-6" POT @ 3' SPACING |

LANDSCAPE PLAN:

VEGETATED SHELF= 2,890 sf (USE 723 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

GRAPHIC SCALE

20 0 10 20 40 80
( IN FEET )
1 inch = 20

North Carolina 811
*** 3 Days Before Digging ***
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811 or 1-800-632-4949
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AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:36-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045528 JAKOB P. KLEIN

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

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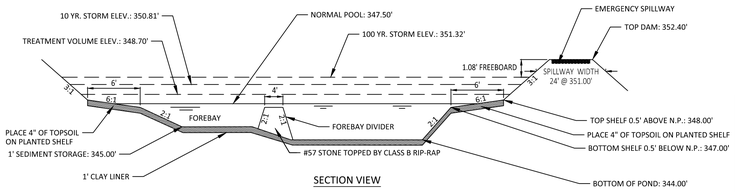
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**SCM 4**

SHEET NO.:
**C8.3**

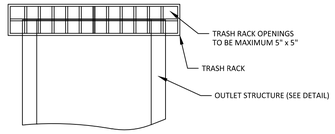
April 1, 2025
Z:\Jobs\21-002 Moody Development Trust (R)\100\Dwgs_Working Dwgs\Construction Set\8.0-8.5 SCM Plan.dwg




SECTION VIEW

NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

## 01 RETENTION POND
NTS

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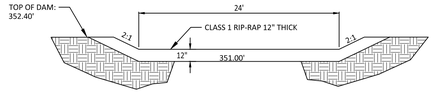
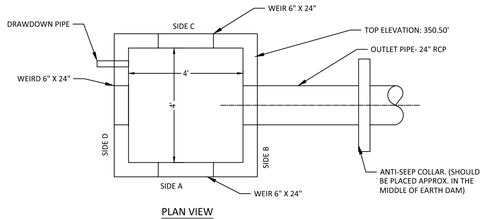
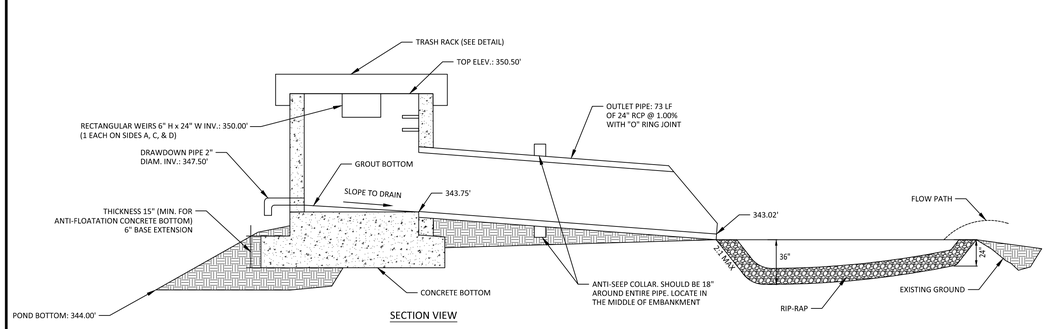



## 03 EMERGENCY SPILLWAY SECTION
NTS



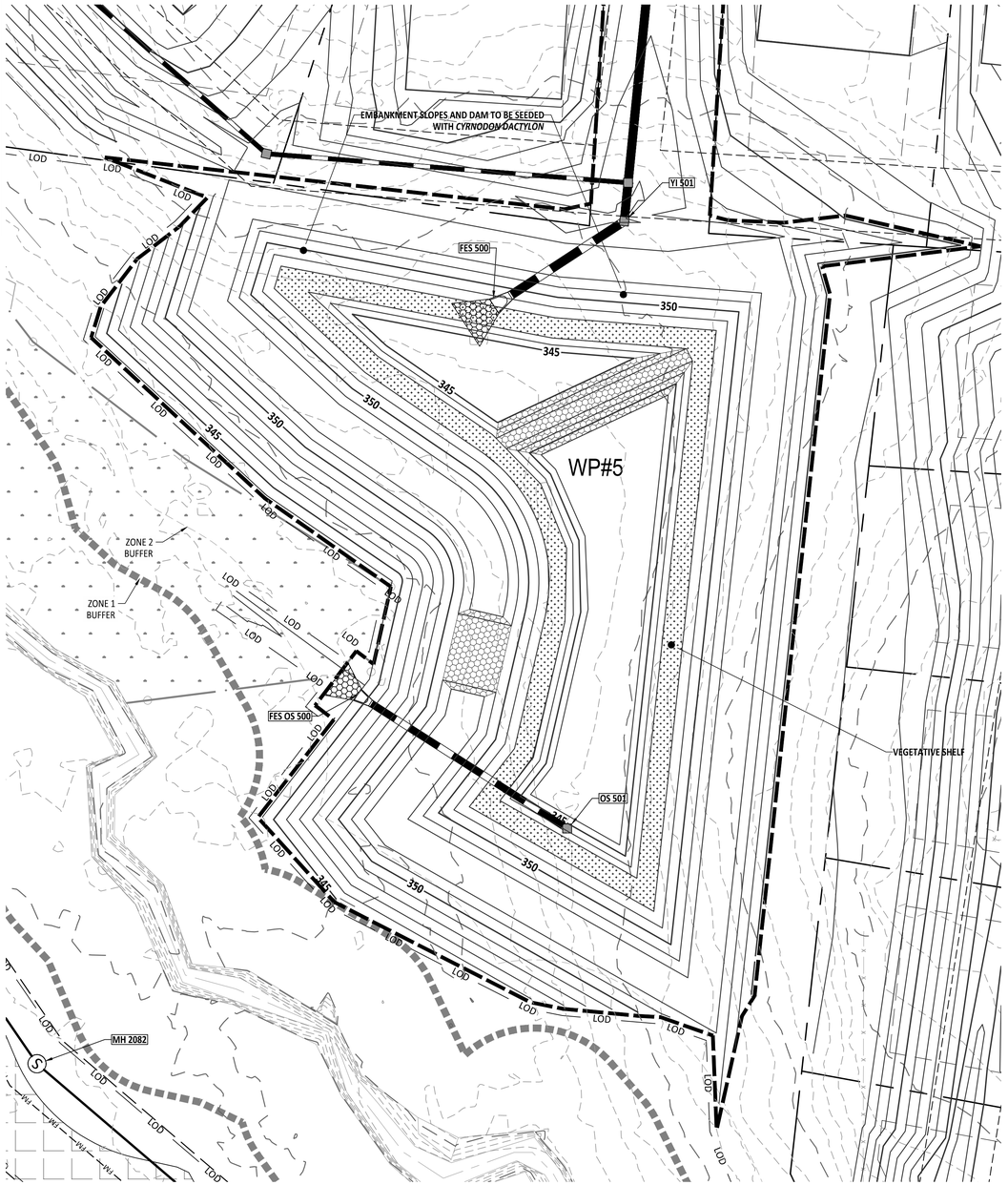

PLAN VIEW

NOTES:
1. WALL THICKNESS AND REINFORCEMENT TO BE DETERMINED BY PRECAST CONCRETE MANUFACTURER.
2. OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, THE EXCESS OPENING SHALL BE FILLED WITH GROUT.
3. OUTLET PIPES SHALL HAVE AN ANTI-SEEP COLLAR OF CONCRETE LOCATED APPROXIMATELY UNDER THE MIDDLE OF THE DAM IN WHICH IT IS LOCATED. IT SHALL CONSIST OF CONCRETE POURED AROUND THE PIPE IN A VERTICAL DIRECTION. THE COLLAR SHALL BE A SQUARE 8" THICK AND SHALL EXTEND 18" BEYOND THE OUTSIDE OF THE PIPE IN EACH DIRECTION.
4. TREATMENT OUTLET PIPE SHALL NOT BE PVC BUT OTHER MATERIAL SUCH AS GSP WHICH IS NOT SUBJECT TO DETERIORATION IN SUNLIGHT.




SECTION VIEW

## 04 OUTLET STRUCTURE #5
NTS




PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

VEGETATED SHELF
(HERB.)

| | | | |
|---|---|---|---|
| EF | EUPATORUIM FISTRULOSUM | JOE PYE WEED | 4-6" POT @ 3' SPACING |
| HC | HIBICUS COCCINEA | SCARLET ROSE MALLOW | 4-6" POT @ 3' SPACING |
| CG | CHELONE GLABRA | WHITE TURTLEHEAD | 4-6" POT @ 3' SPACING |
| LC | LOBELIA CARDINALIS | CARDINAL FLOWER | 4-6" POT @ 3' SPACING |

LANDSCAPE PLAN:
VEGETATED SHELF= 3172 sf (USE 793 PLANTS FROM LIST ABOVE)
USE EQUAL NUMBER OF PLANTS FROM LIST ABOVE

CALCULATION: 50 PLANTS PER 200 SF

GRAPHIC SCALE
20 0 10 20 40 80
( IN FEET )
1 inch = 20

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:37-04'00'

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 045281 JAKOB P. KLEIN

PRELIMINARY
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|---|---|---|
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| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**SCM 5**

SHEET NO.:
**C8.4**

North Carolina 811
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North Carolina 811
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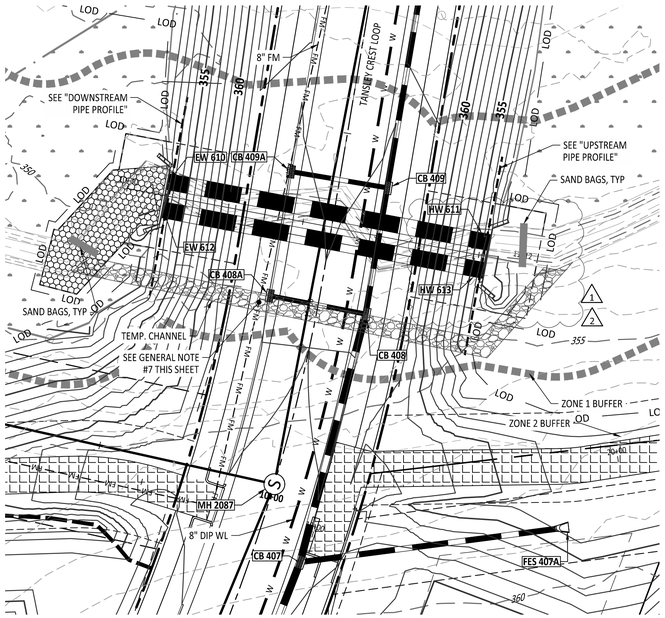
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

April 1, 2025

Z:\Jobs\21-002 Moody Development Tract (8210005)\Dwg_ Working Dwgs\Construction Set\8.0-8.1 SCM Plan.dwg

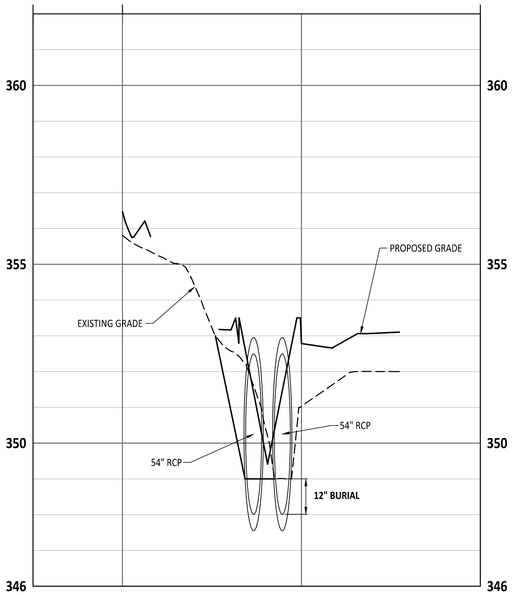



CULVERT CROSSING PLAN

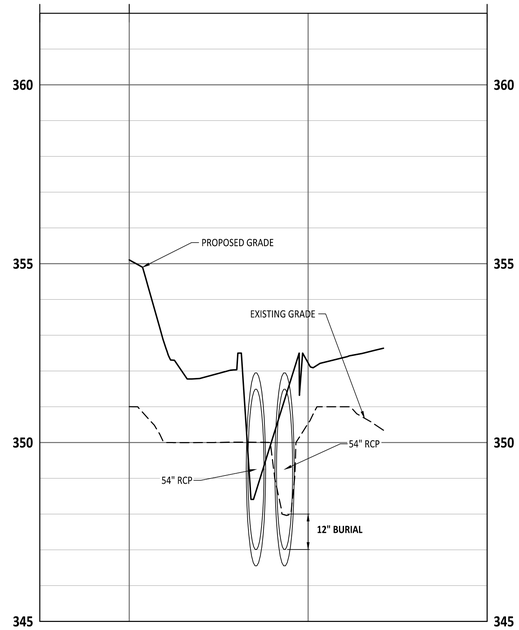
GRAPHIC SCALE

20 0 10 20 40 80

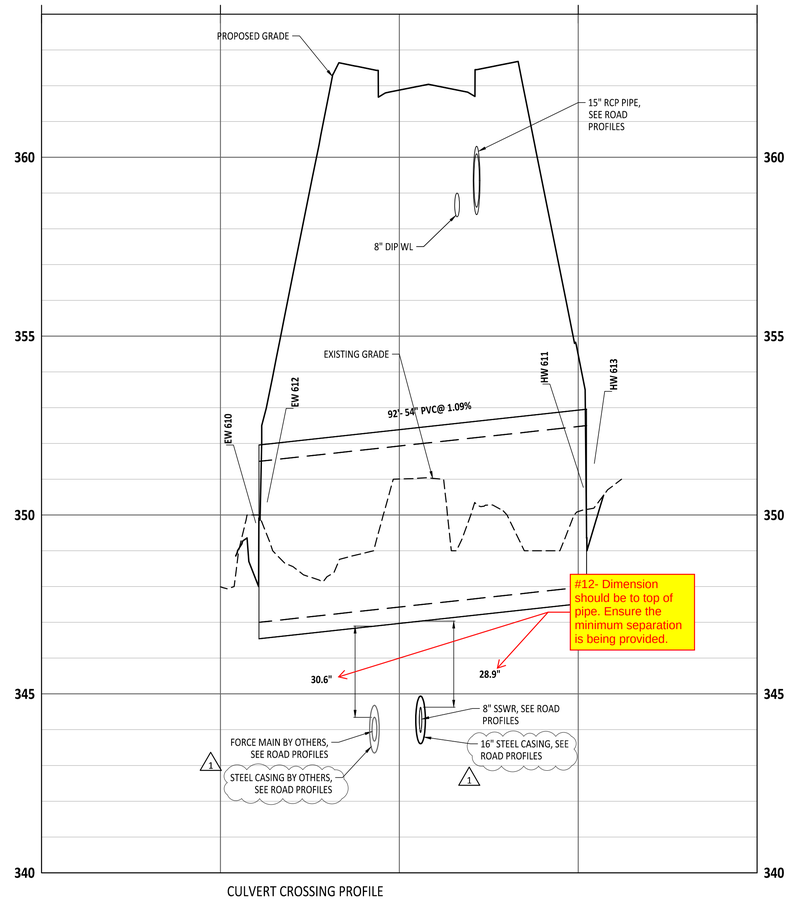
( IN FEET )
1 inch = 20




CULVERT CROSSING - UPSTREAM PIPE PROFILE




CULVERT CROSSING - DOWNSTREAM PIPE PROFILE




CULVERT CROSSING PROFILE

## SEQUENCE FOR 54" RCP CULVERT CROSSING

STAGE 1A CREEK CROSSING INSTALLATION

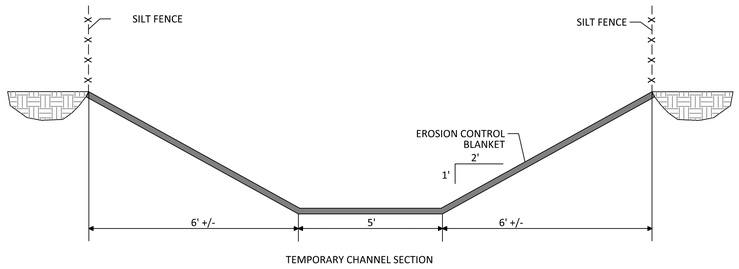
1. CONDUCT MEETING WITH WAKE COUNTY INSPECTOR PRIOR TO PROCEEDING WITH THE STREAM CROSSING CONSTRUCTION.
2. INSTALL THE BYPASS CHANNEL AS SHOWN WITH LINING LEAVING A PORTION OF THE STREAM BANK ON EACH END TO ACT AS A DAM TO PREVENT WATER FLOW DURING CONSTRUCTION OF THE CHANNEL. **(STEPS 3 - 9 SHOULD BE ACCOMPLISHED DURING ONE WORKDAY)**.
3. DURING A PERIOD OF DRY WEATHER REMOVE THE DOWNSTREAM DAM FIRST AND CONSTRUCT THE REMAINDER OF THE CHANNEL TO THE EXISTING STREAM BED.
4. REMOVE THE UPSTREAM DAM AND CONSTRUCT THE REMAINDER OF THE CHANNEL ON THAT END INCLUDING LINING.
5. ADD SANDBAGS ACROSS THE STREAM AT THE UPSTREAM END TO FORCE THE STREAM FLOW INTO THE BY-PASS CHANNEL.
6. ADD SANDBAGS ACROSS THE DOWNSTREAM END OF THE STREAM JUST ABOVE THE POINT WHERE THE BY-PASS CHANNEL RE-ENTERS THE STREAM TO PREVENT FLOW INTO THE LOCATION OF THE PIPE TO BE INSTALLED.
7. INSTALL TEMPORARY HOSE AND PUMP TO ALLOW FOR PUMP AROUND. PUMPS TO BE USED AS NEEDED.
8. RELOCATE BRIDGE MAT OVER THE TEMPORARY BY-PASS CHANNEL.
9. SEED/SOD AND STABILIZE ALL DENUDED AREAS ONCE THE CHANNEL IS IN PLACE.

STAGE 1B CREEK CROSSING INSTALLATION

1. OBTAIN PERMISSION FROM THE WAKE COUNTY INSPECTOR TO PROCEED WITH THIS STEP.
2. EXCAVATE AREA AS SHOWN AND INSTALL PIPE WITH HEADWALLS AND DOWNSTREAM RIP RAP AS SHOWN IN RIP-RAP CROSS-SECTION.
3. OBTAIN WAKE COUNTY APPROVAL OF THE PIPE INSTALLATION.

STAGE 1C CREEK CROSSING INSTALLATION

1. REMOVE TEMPORARY DAM ON DOWNSTREAM END.
2. REMOVE TEMPORARY DAM ON UPSTREAM END.
3. REMOVE LINING ON UPSTREAM END OF BY-PASS CHANNEL AND INSTALL EARTHEN DAM ACROSS THE UPSTREAM END OF THE BY-PASS CHANNEL TO FORCE STREAM FLOW THROUGH THE PIPE.
4. INSTALL EARTHEN DAM ACROSS THE DOWNSTREAM OF THE BY-PASS CHANNEL AFTER REMOVING THE LINING.
5. REMOVE REMAINDER OF THE BY-PASS CHANNEL LINING AND FILL THE CHANNEL COMPACTING THOROUGHLY IN LAYERS.
6. INSTALL SILT FENCE AT THE TOE OF SLOPES AND TIE TO ENDWALLS AS SHOWN ON THIS PLAN.
7. COMPLETE FILL AROUND THE PIPE TO A LEVEL AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE TO ALLOW CONSTRUCTION EQUIPMENT TO PASS OVER IT.
8. COMPLETE FILL BRINGING THE AREA TO FINISHED GRADE.
9. INSTALL PAVEMENT AND FOLLOW THE SEEDING SCHEDULE FOR ALL BARE AREAS.
10. REFER TO MAIN CONSTRUCTION SEQUENCE FOR OTHER DETAILS.




TEMPORARY CHANNEL SECTION

## GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WAKE COUNTY STANDARDS AND REGULATIONS.
2. THERE SHALL BE NO DISTURBANCE OUTSIDE THE LIMITS SHOWN ON THIS PLAN WITHOUT AN APPROVED PLAN AMENDMENT BY WAKE COUNTY.
3. ALL DISTURBED AREAS SHALL BE SEEDED PER THE TABLE.
4. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER NPDES SEEDING SCHEDULE AT EITHER 7 DAYS OR 14 DAYS DEPENDING ON MEASURE AND SLOPE.
5. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SELF-INSPECTION LOG.
6. CUT AND FILL SLOPES THAT ARE 2:1 OR GREATER SHALL BE STABILIZED WITH PERMANENT SLOPE RETENTION DEVICES OR A SUITABLE COMBINATION OF PLANTING AND RETENTION DEVICES. SLOPES GREATER THAN 3:1 SHALL NOT BE STABILIZED WITH TURF GRASS BUT MUST BE STABILIZED WITH VEGETATION THAT REQUIRES MINIMAL MAINTENANCE: WEEPING LOVE GRASS, RED FESCUE, OR OTHER APPROVED VARIETY.
7. CONTRACTOR TO LOCATE EXISTING FORCE MAIN AND MAINTAIN ADEQUATE COVER WHEN ROUTING TEMPORARY CHANNEL.

**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
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City of Raleigh
Public Utilities Department Permit # _____

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JACOB P. KLEIN
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881
CERTIFICATE OF AUTHORIZATION
Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:38-04'00'

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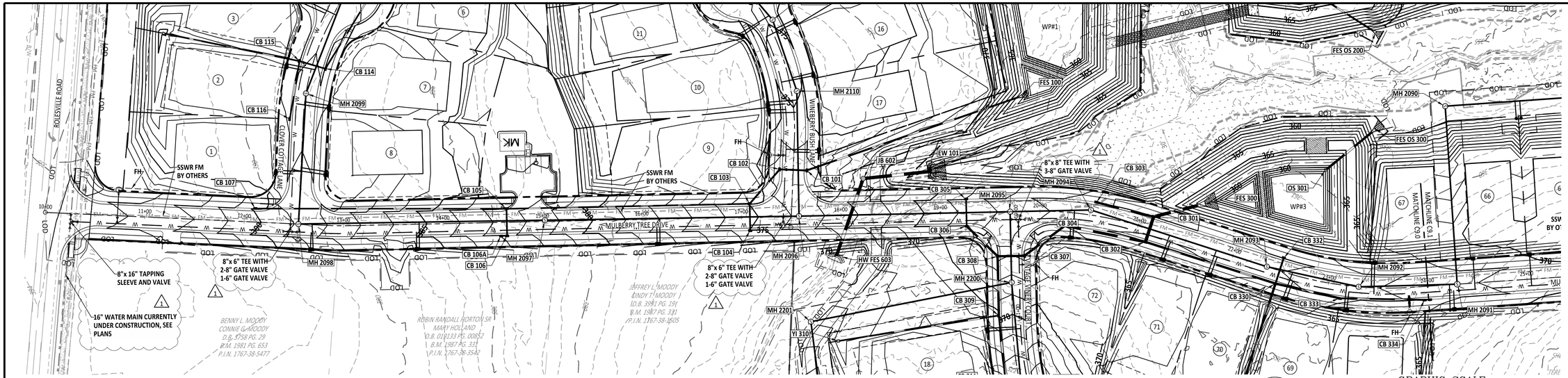
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**CULVERT CROSSING**

SHEET NO.:
**C8.5**

Z:\Jobs-21-002 Moody Development Tract (8210023)\Dwgs_Working Dwgs\Construction Set\8.0 & 1 SCM Plan.dwg
April 1, 2025



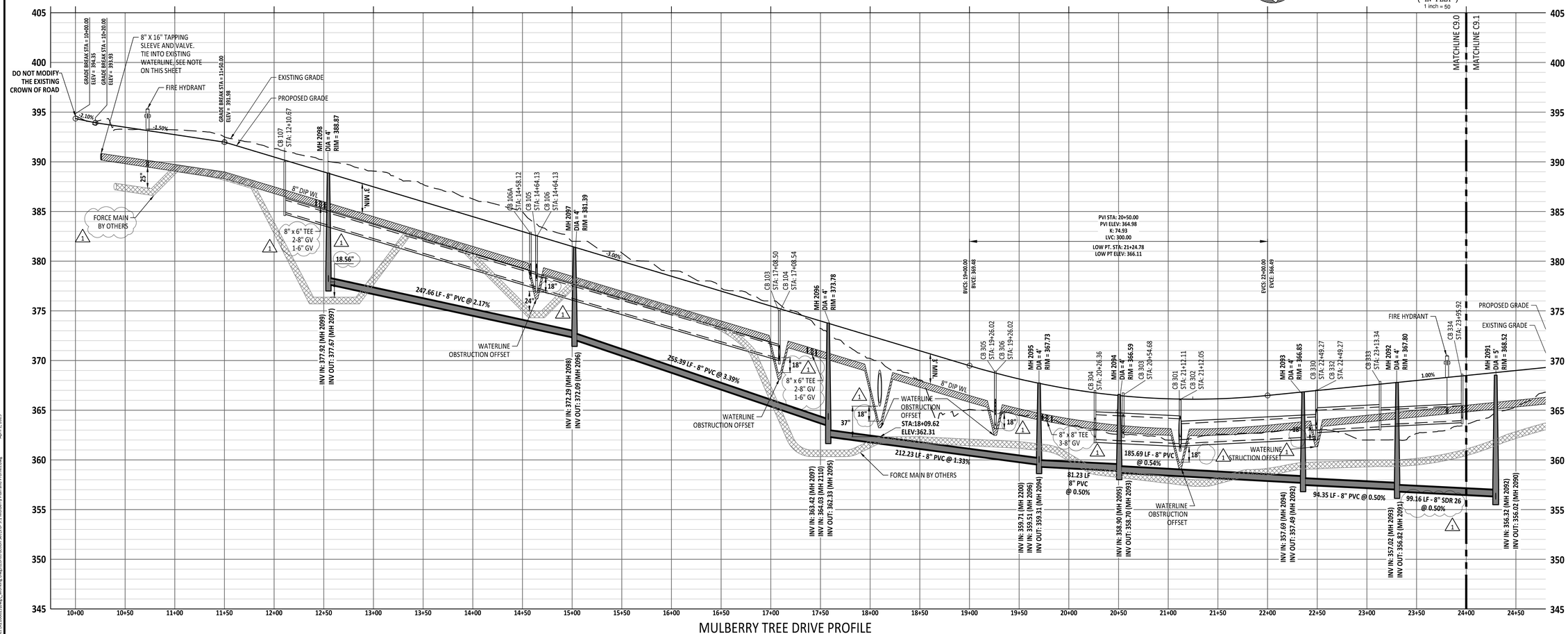

MULBERRY TREE DRIVE PLAN

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50

NOTE:
1. CONTRACTOR TO CONFIRM LOCATION, DEPTH, SIZE, AND MATERIAL OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES TO AMERICAN ENGINEERING.




MULBERRY TREE DRIVE PROFILE

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4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038529 JAKOB P. KLEIN
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881
CERTIFICATE OF AUTHORIZATION
Digitally signed by Jakob Klein
Date: 2025.04.01 21:39:04'00'

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

| | |
|---|---|
| JOB NUMBER: | 21-002 |
| CHECKED BY: | JK |
| DRAWN BY: | RC & SM |
| DATE: | 02/03/2025 |

SHEET TITLE:
**MULBERRY PLAN AND PROFILE**

SHEET NO.:
**C9.0**

**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

**Public**
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City of Raleigh
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North Carolina 811
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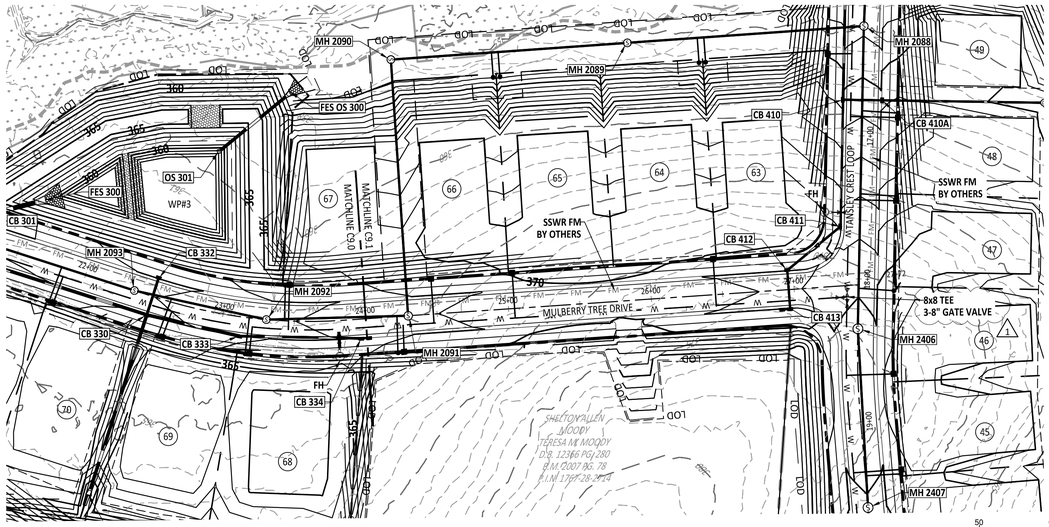
Z:\Jobs\21-002 Moody Development Tract (R21000)\Dwg_Working Dwgs\Construction Set\9.0 n 9.1 Mulberry Plan and Profile.dwg April 1, 2025

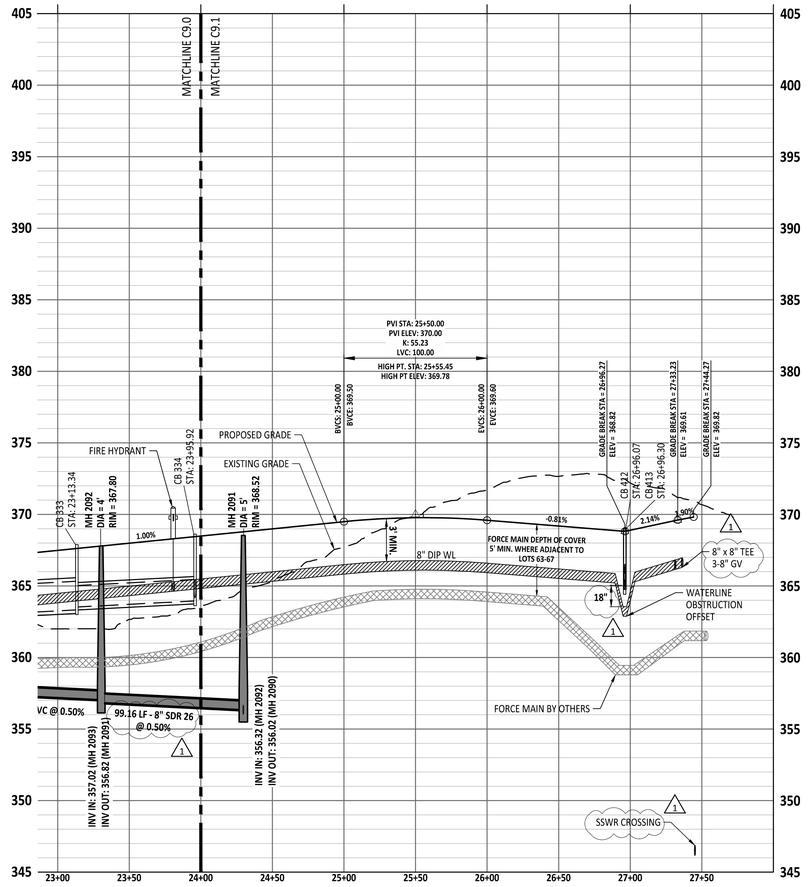



MULBERRY TREE DRIVE PLAN

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50




MULBERRY TREE DRIVE PROFILE

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4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:40-04'00'

NORTH CAROLINA
PROFESSIONAL
ENGINEER
JAKOB P. KLEIN

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THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**MULBERRY PLAN AND PROFILE**

SHEET NO.:
**C9.1**

**Public**
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City of Raleigh
Public Utilities Department Permit # _____

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City of Raleigh
Public Utilities Department Permit # _____

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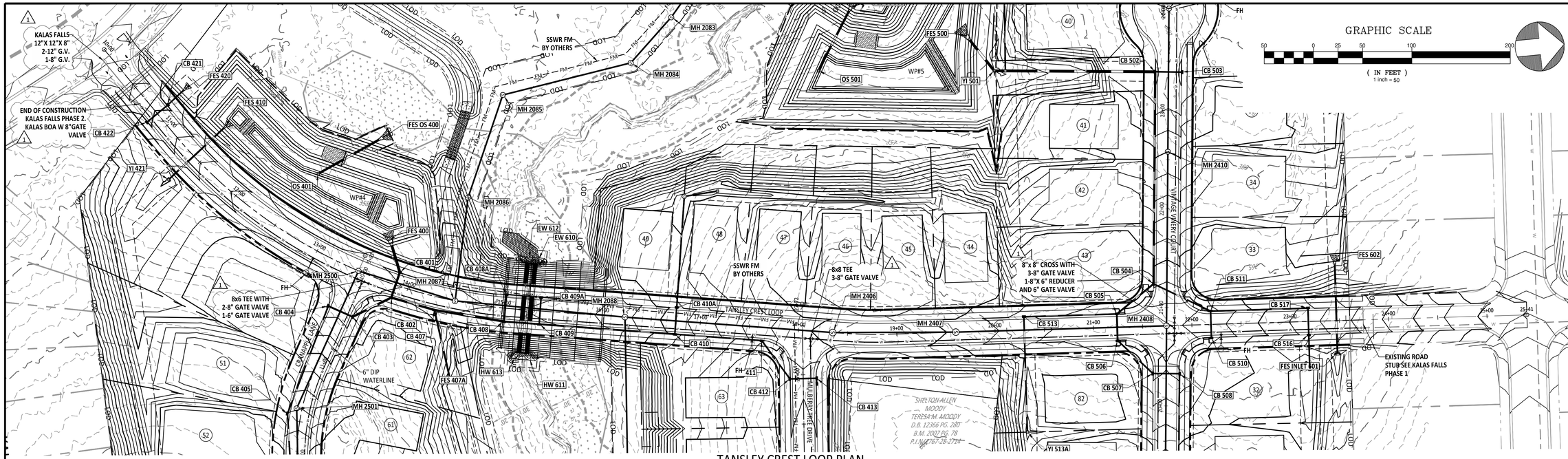
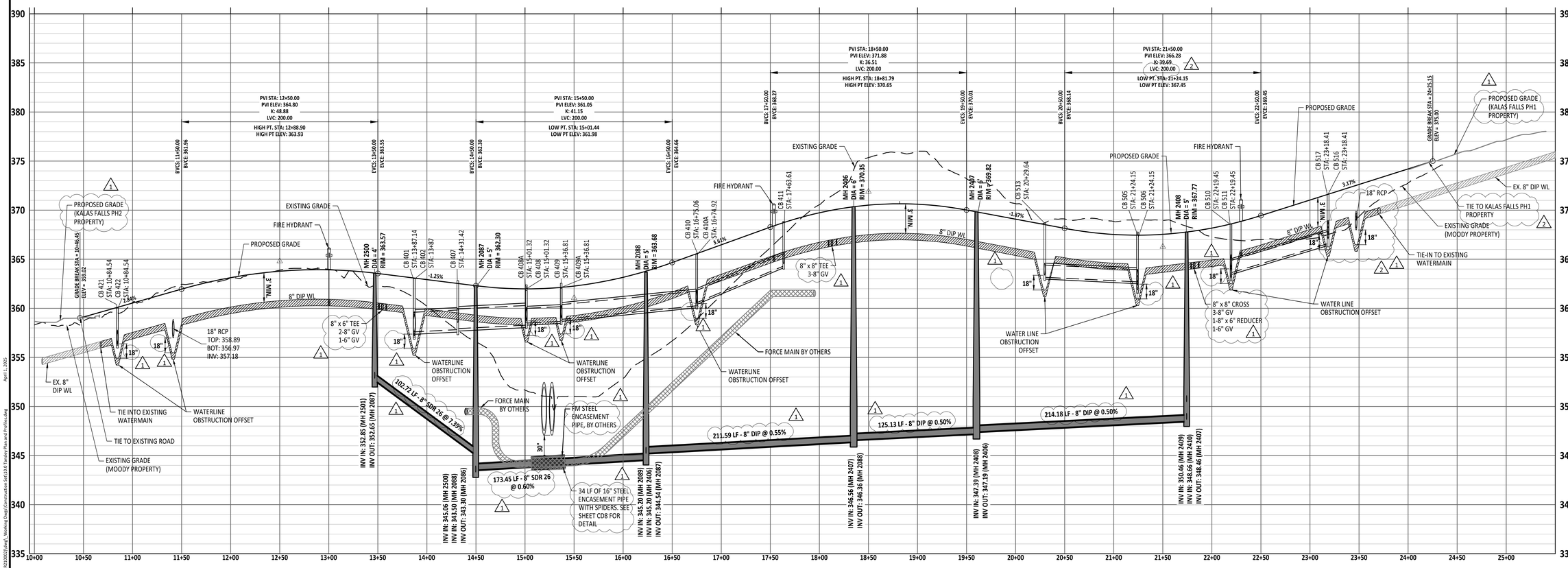
Z:\Jobs\21-002 Moody Development Tract (R21000259)\wgL_Working Dwgs\Construction Set\C9.0- 9.1 Mulberry Plan and Profiles.dwg April 1, 2025




TANSLEY CREST LOOP PLAN




TANSLEY CREST LOOP PROFILE

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City of Raleigh
Public Utilities Department Permit # _____

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City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
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Raleigh, NC 27607
919-469-1101


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C-3881
CERTIFICATE OF AUTHORIZATION

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Date: 2025.04.01 17:41:41-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 055281
JAKOB P. KLEIN

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

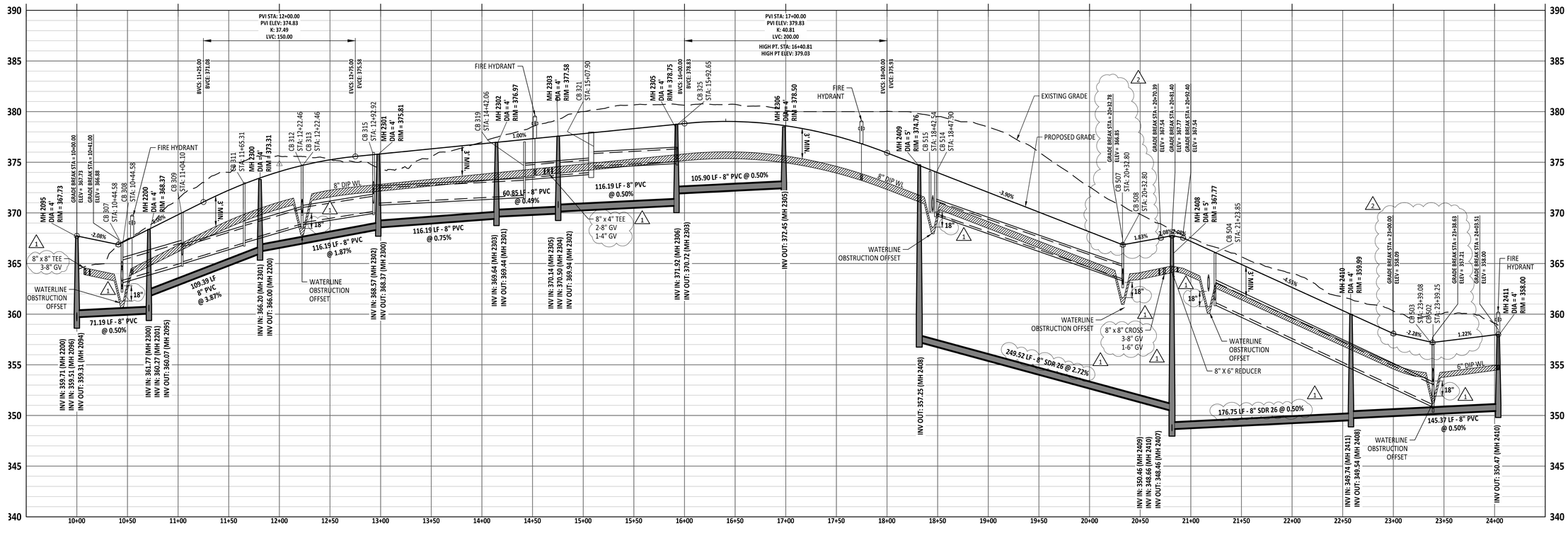
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**TANSLEY CREST LOOP PLAN AND PROFILE**

SHEET NO.:
**C10.0**

April 1, 2025
Z:\Jobs\21-002 Moody Development Tract (8210002)\Dwg_Working Dwgs\Construction Set\10.0 Tansley Plan and Profiles.dwg

VINTAGE VINERY COURT PLAN




VINTAGE VINERY COURT PROFILE

**Public**
Sewer Collection / Extension System
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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:42-04'00'

NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL
045528
JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE


THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

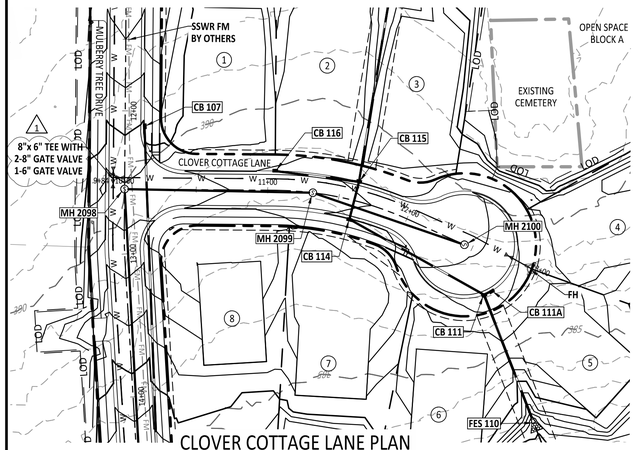

THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**VINTAGE VINERY CT PLAN AND PROFILE**

SHEET NO.:
**C11.0**


Z:\Jobs\21-002 Moody Development Tract (R010002)\Engl_ Working Dwgs\Construction Set\11.0 Vintage Winery Plan and Profile.dwg April 1, 2025




## CLOVER COTTAGE LANE PLAN

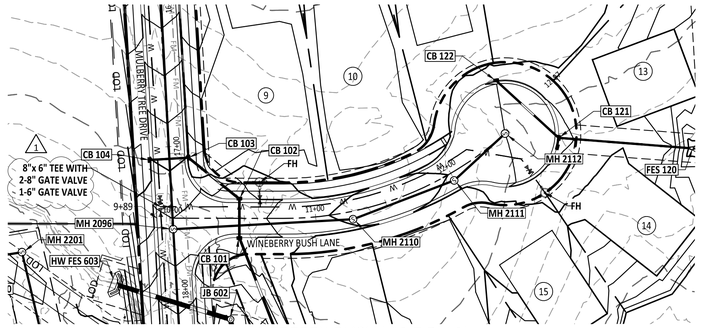
GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50




## CLOVER COTTAGE LANE PROFILE

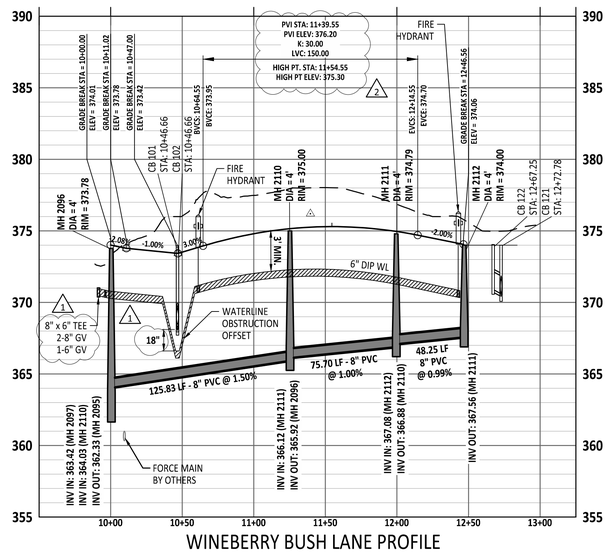



## WINEBERRY BUSH LANE PLAN

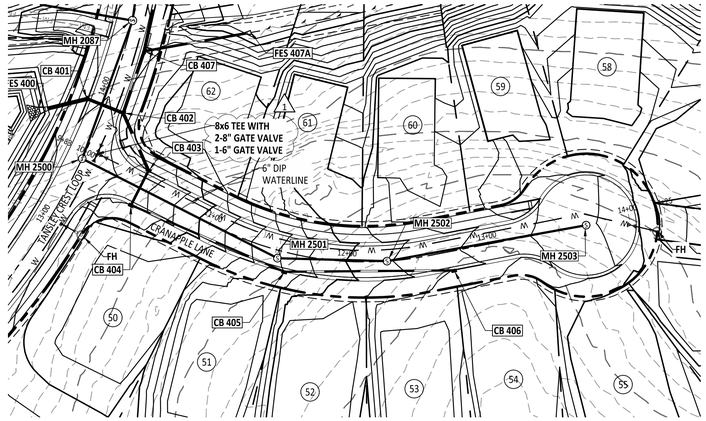
GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50




## WINEBERRY BUSH LANE PROFILE




## CRANAPPLE LANE PLAN

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50




## CRANAPPLE LANE PROFILE


AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:43-04'00'

NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL
045328
JAKOB P. KLEIN

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02/03/2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04/01/2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE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THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**CUL-DE-SAC AND STUB PLAN AND PROFILES**

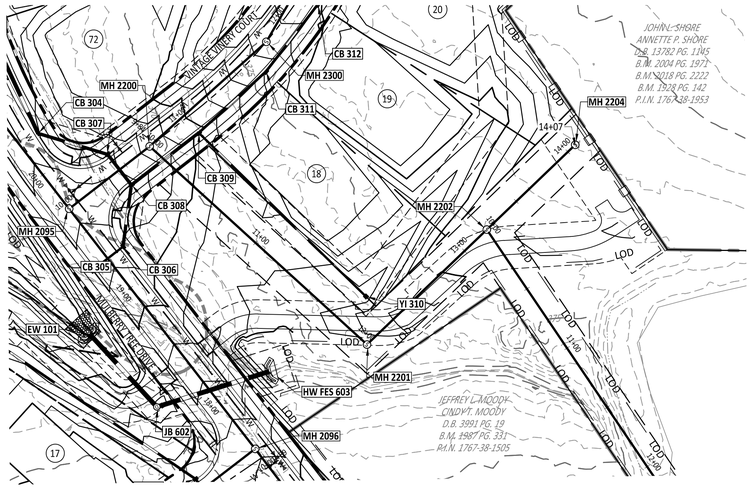
SHEET NO.:
**C12.0**

**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Trust (R21000)\Dwg_Working Dwgs\Construction Set\12.0 Cul-de-sac & StubPlan and Profiles.dwg April 1, 2025

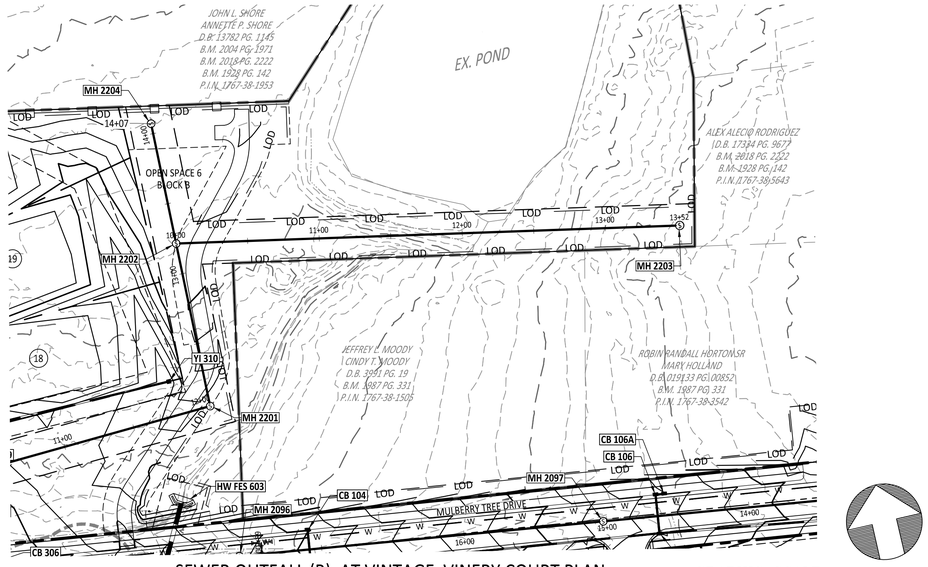



SEWER OUTFALL (A) AT VINTAGE VINERY COURT PLAN

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50

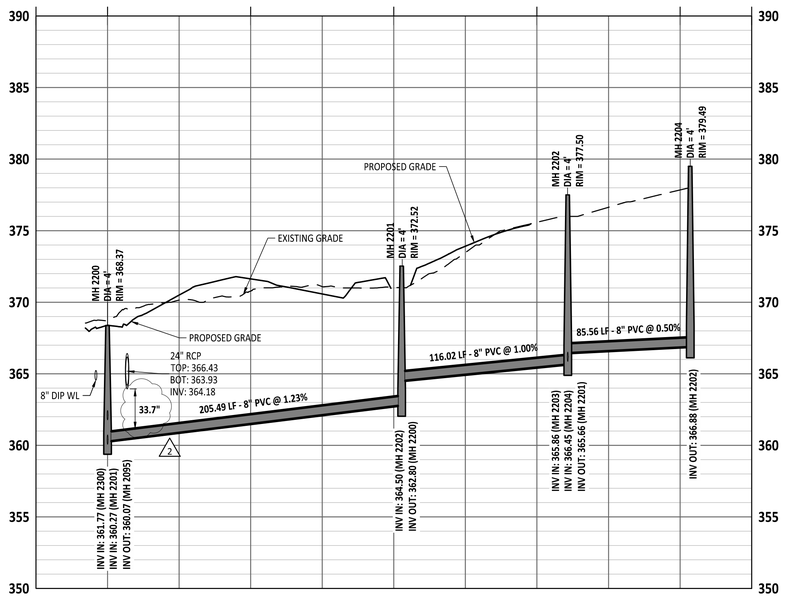



SEWER OUTFALL (B) AT VINTAGE VINERY COURT PLAN

GRAPHIC SCALE

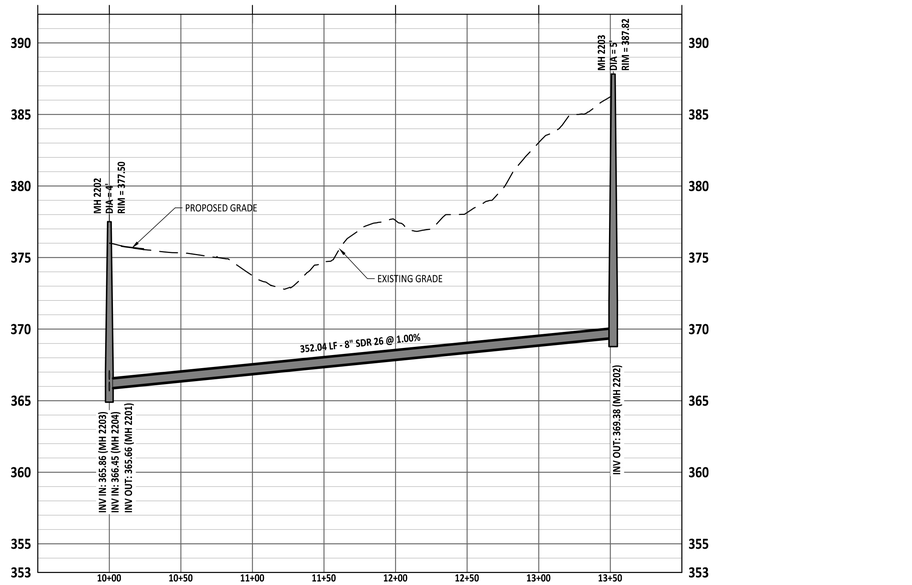
50 0 25 50 100 200

( IN FEET )
1 inch = 50




SEWER OUTFALL (A) AT VINTAGE VINERY COURT PROFILE

#13- Add stationing labels




SEWER OUTFALL (B) AT VINTAGE VINERY COURT PROFILE

**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:44-04'00'

PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA
PROFESSIONAL
065258
ENGINEER
JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

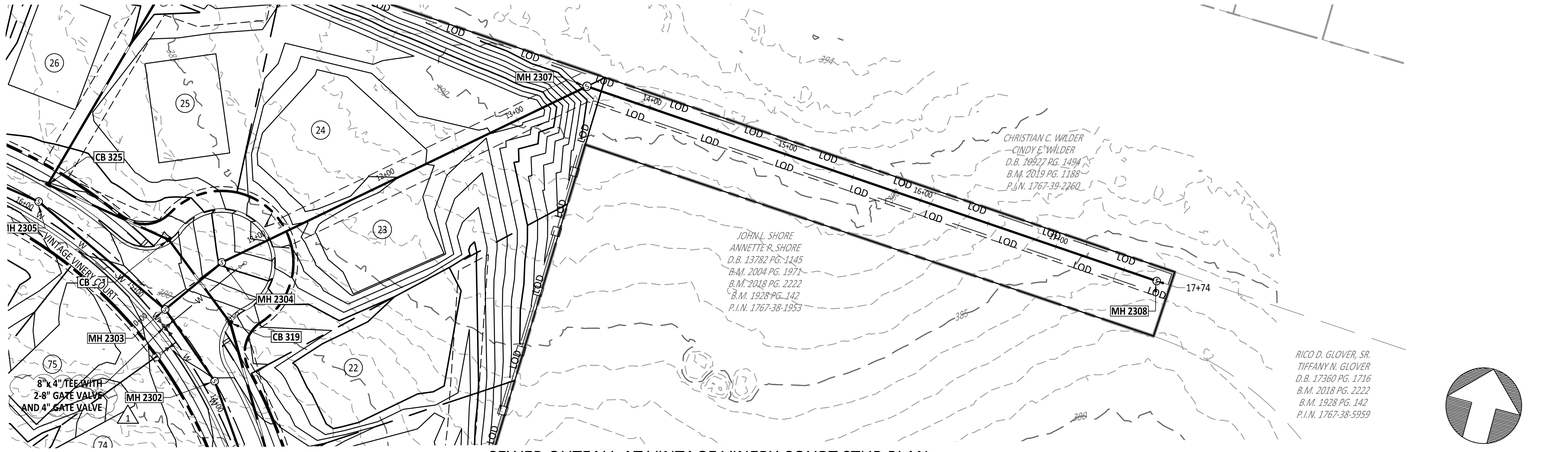
SHEET TITLE:

**SEWER OUTFALL**

SHEET NO.:

**C13.0**

Z:\Jobs\21-002 Moody Development Trust (8210007)\Dwg_Working Dwgs\Construction Set\13.0 Sewer Outfall Plan and Profile.dwg April 1, 2025

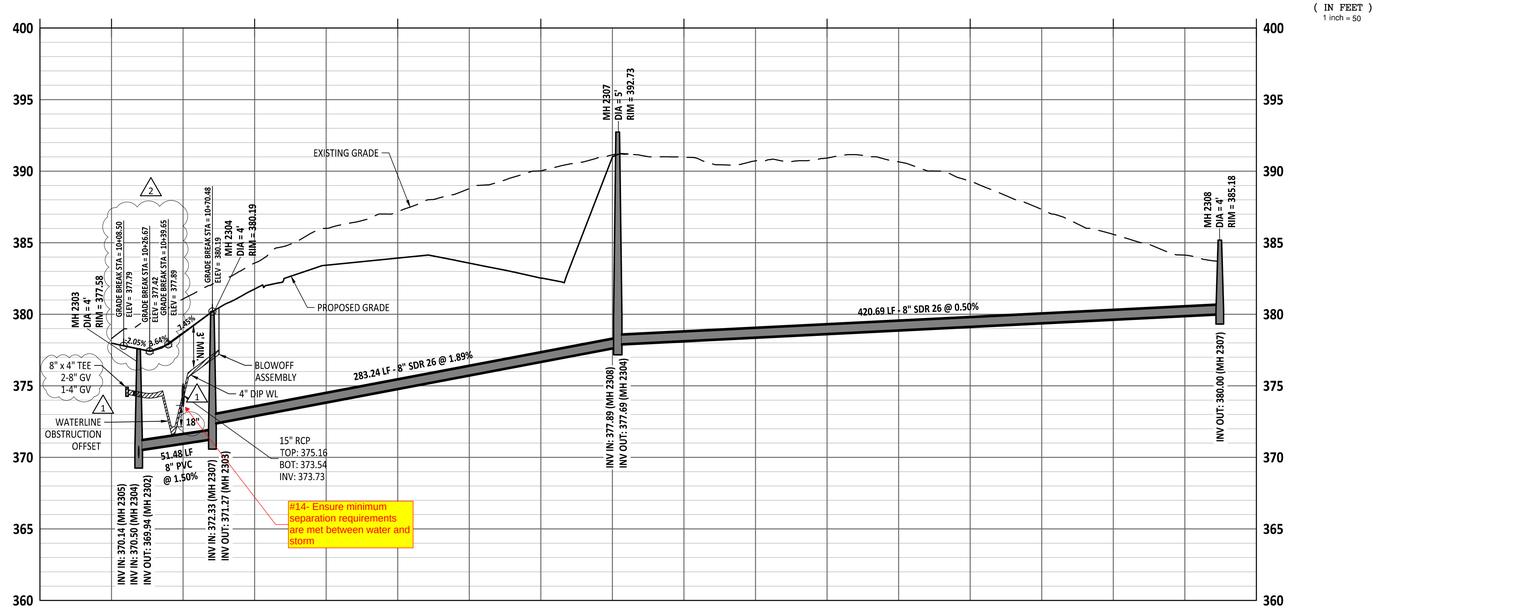



SEWER OUTFALL AT VINTAGE VINERY COURT STUB PLAN

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50




SEWER OUTFALL AT VINTAGE VINERY COURT STUB PROFILE

13- Add stationing labels

**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:45-04'00'

NORTH CAROLINA
PROFESSIONAL
36528
ENGINEER
JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**SEWER OUTFALL**

SHEET NO.:
**C13.1**

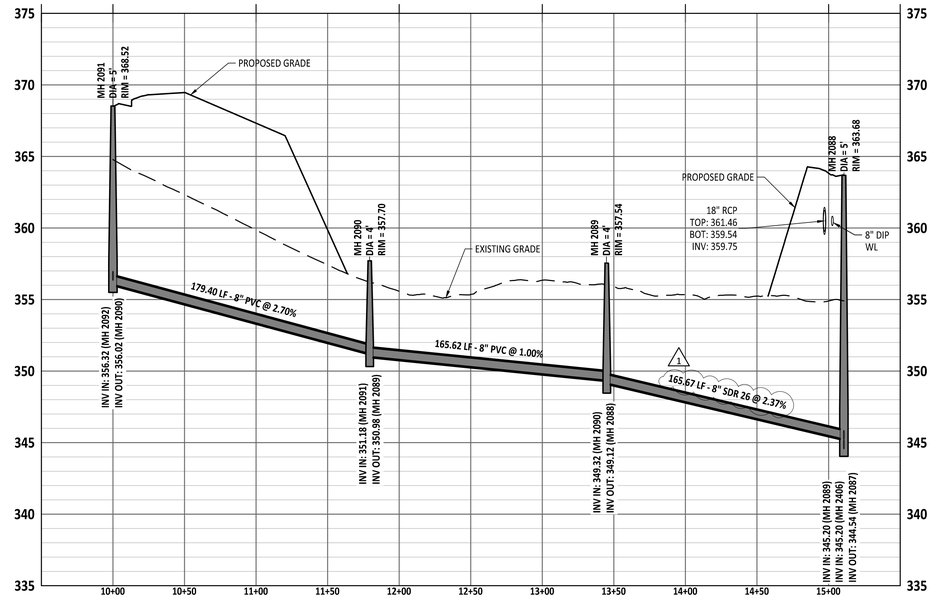
Z:\Jobs\21-002 Moody Development Tract (8210003)\Awg_ Working Dwg\Construction Set\13.0 Sewer Outfall Plan and Profile.dwg April 1, 2025

SEWER OUTFALL AT MULBERRY AND TANSLEY PLAN

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50




SEWER OUTFALL AT MULBERRY AND TANSLEY PROFILE

**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

**Public**
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:46-04'00'

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA
065281
ENGINEER
JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

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THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

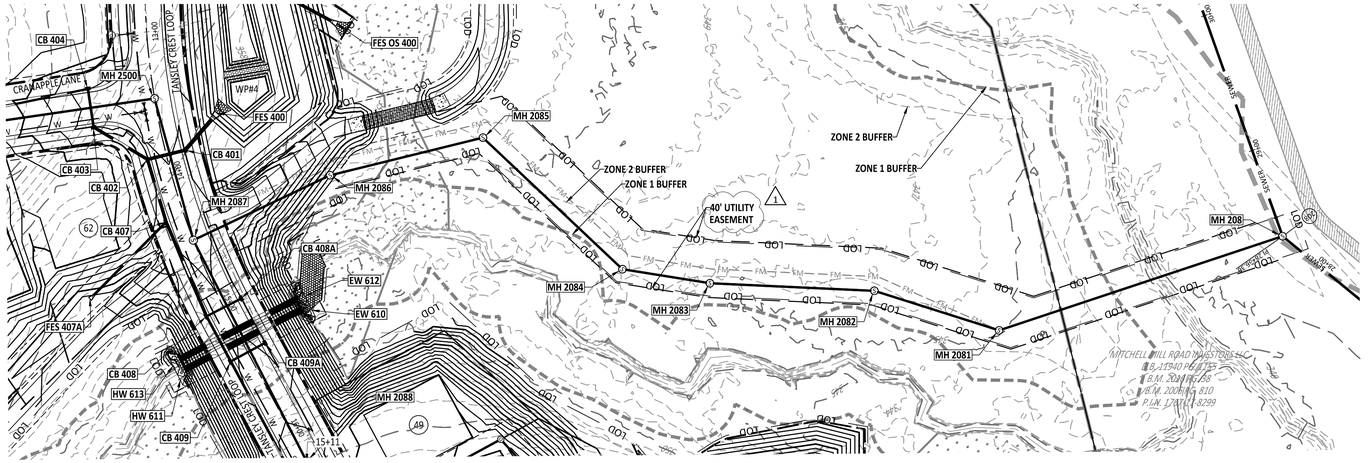
SHEET TITLE:

**SEWER OUTFALL**

SHEET NO.:

**C13.2**

Z:\Job\21-002 Moody Development Tract (8210002)\Dwg_ Working Dwgs\Construction Set\C13.0 Sewer Outfall Plan and Profile.dwg April 1, 2025

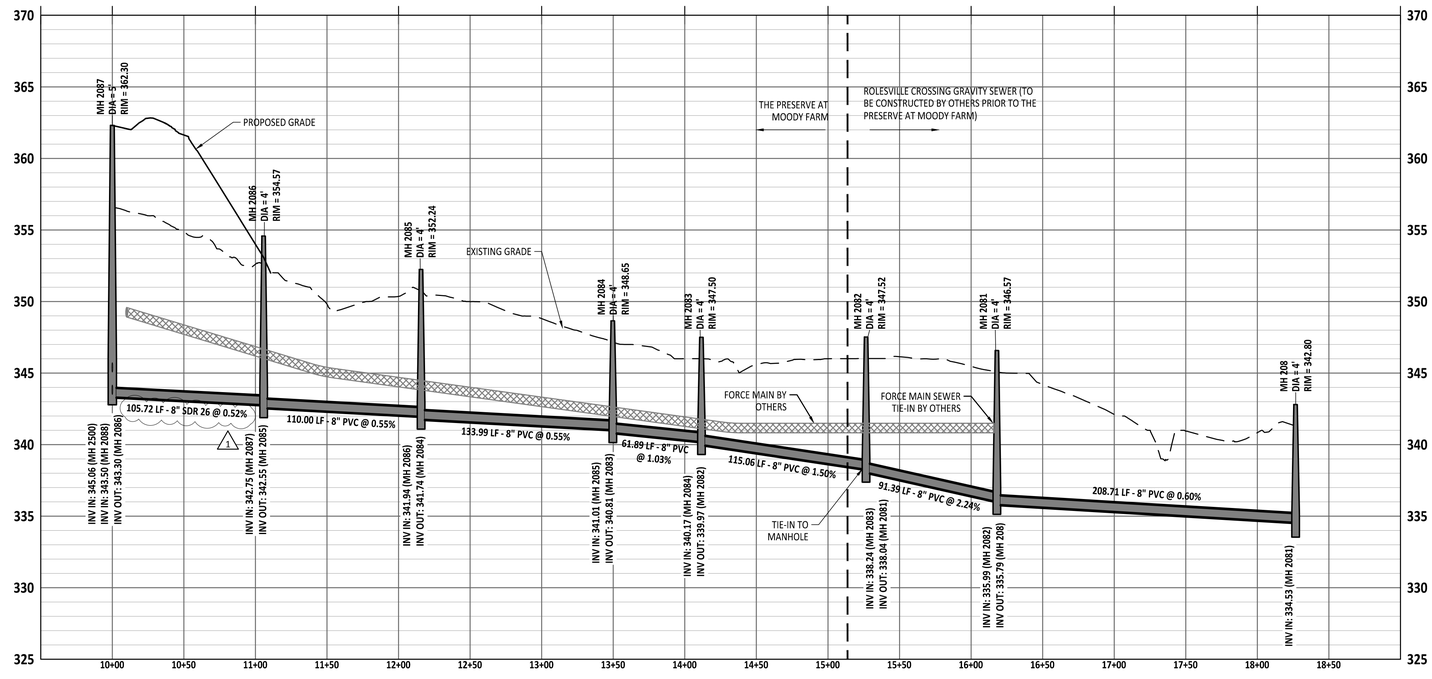



SEWER OUTFALL AT TANSLEY CREST LOOP (TIE-IN TO KALAS FALLS) PLAN

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50




SEWER OUTFALL AT TANSLEY CREST LOOP (TIE-IN TO KALAS FALLS) PROFILE


AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:47-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045528 JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:

**SEWER OUTFALL**

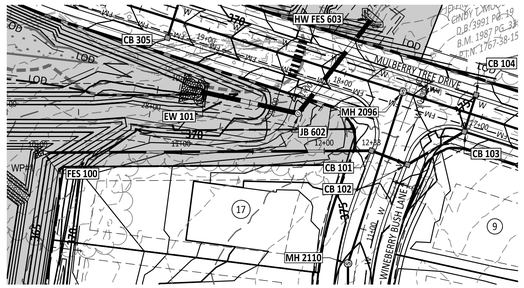
SHEET NO.:
**C13.3**

**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

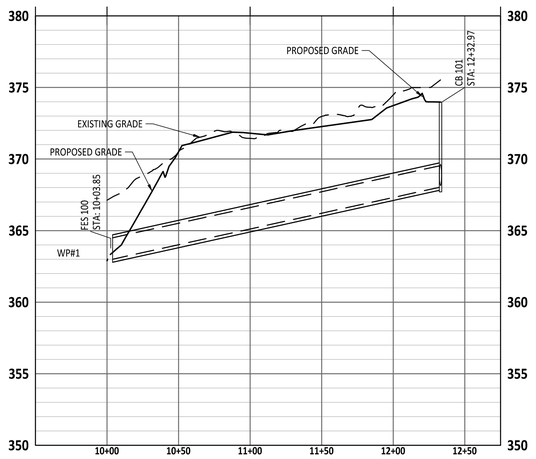
**Public**
Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

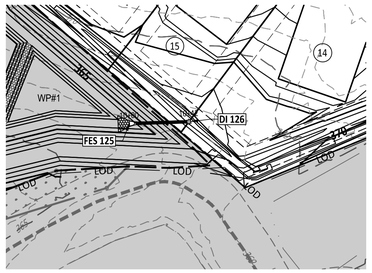
Z:\Jobs\21-002 Moody Development Tract (R21000)\Dwgs_Working Dwgs\Construction Set\13.0 Sewer Outfall Plan and Profile.dwg April 1, 2025



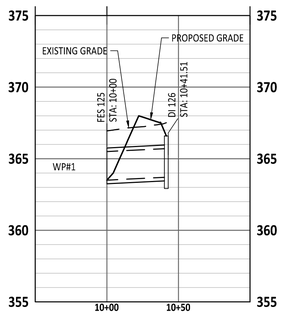

CB 101 TO FES 100 PLAN



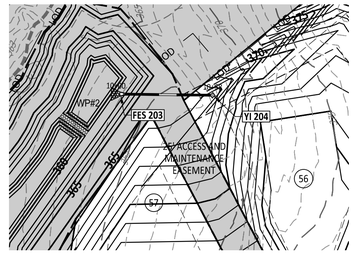

CB 101 TO FES 100 PROFILE



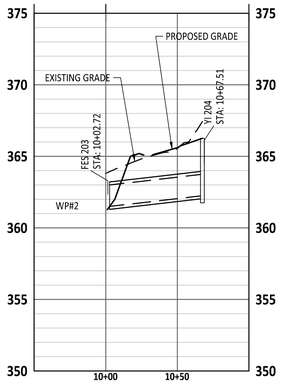

DI 126 TO FES 125 PLAN



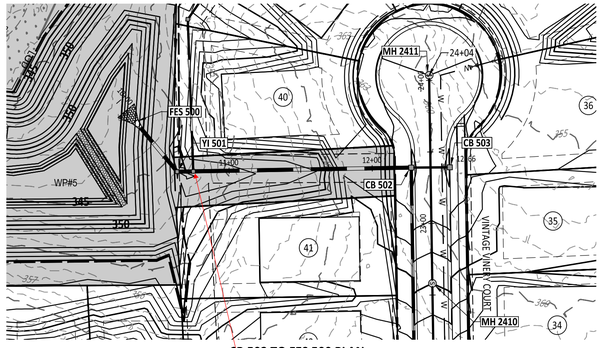

DI 126 TO FES 125 PROFILE




YI 204 TO FES 203 PLAN

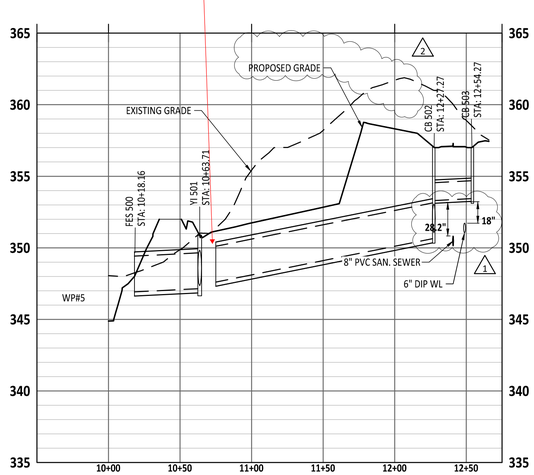



YI 204 TO FES 203 PROFILE

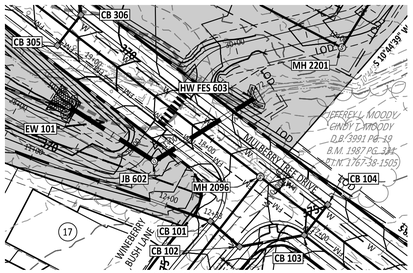



CB 503 TO FES 500 PLAN

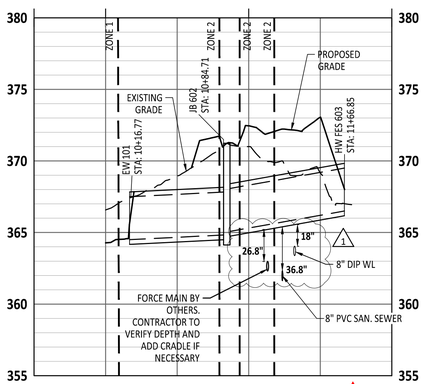
label and show structure (YI-501A) and pipe in profile




CB 503 TO FES 500 PROFILE




HW 603 TO EW 101 PLAN




HW 603 TO EW 101 PROFILE

#13- Add stationing labels

GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50

**Public**
Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh
Public Utilities Department Permit # _____

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City of Raleigh
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North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:48-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045528 JAKOB P. KLEIN

| NO. | DATE | REVISION: |
|---|---|---|
| 1 | 02-03-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1 |
| 2 | 04-01-2025 | CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2 |

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON, CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

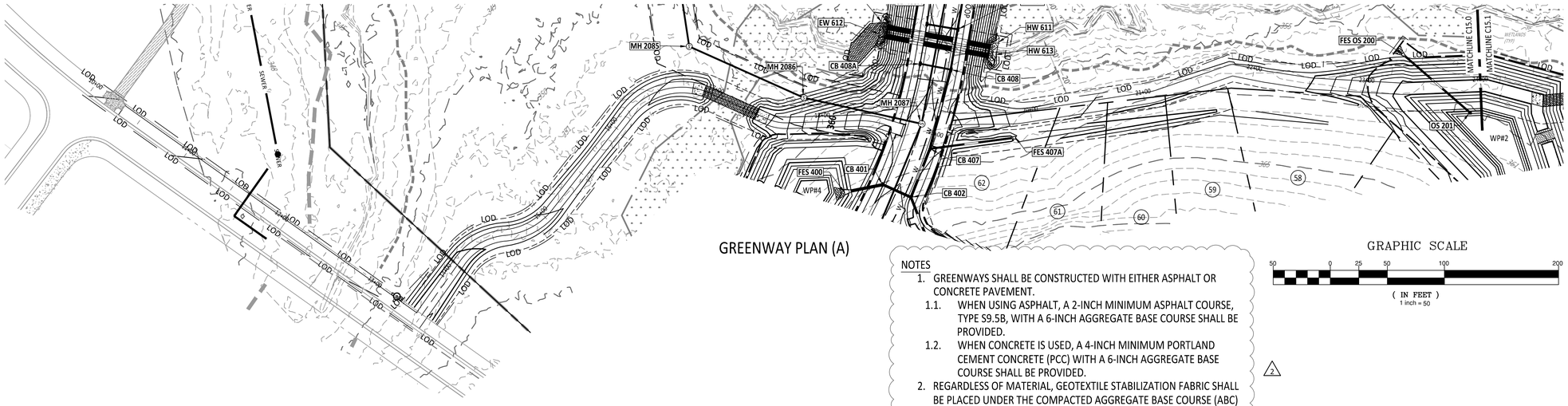
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**STORM OUTFALL PLAN AND PROFILES**

SHEET NO.:
**C14.0**

Z:\Jobs\21-002 Moody Development Tract (8210003)\Dwg_Working Dwgs\Construction Set\14.0-Storm Outfall Plan and Profile.dwg April 1, 2025




GREENWAY PLAN (A)

GRAPHIC SCALE

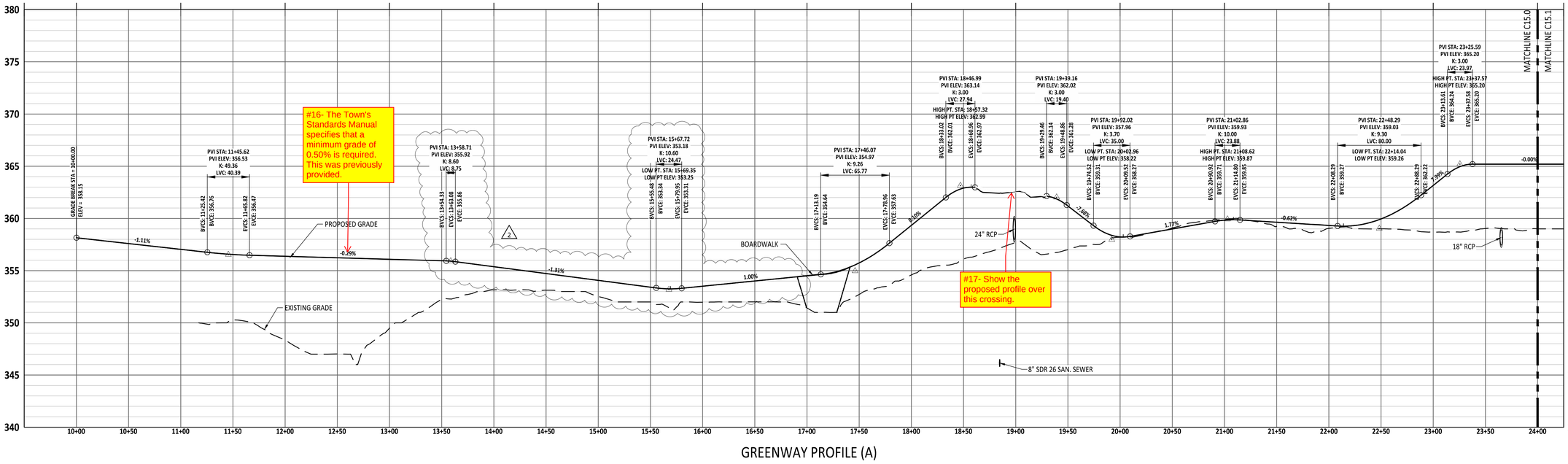
50 0 25 50 100 200

( IN FEET )
1 inch = 50

NOTES

1. GREENWAYS SHALL BE CONSTRUCTED WITH EITHER ASPHALT OR CONCRETE PAVEMENT.
   - 1.1. WHEN USING ASPHALT, A 2-INCH MINIMUM ASPHALT COURSE, TYPE S9.5B, WITH A 6-INCH AGGREGATE BASE COURSE SHALL BE PROVIDED.
   - 1.2. WHEN CONCRETE IS USED, A 4-INCH MINIMUM PORTLAND CEMENT CONCRETE (PCC) WITH A 6-INCH AGGREGATE BASE COURSE SHALL BE PROVIDED.
2. REGARDLESS OF MATERIAL, GEOTEXTILE STABILIZATION FABRIC SHALL BE PLACED UNDER THE COMPACTED AGGREGATE BASE COURSE (ABC) THE ENTIRE LENGTH AND WIDTH OF THE GREENWAY.

△2




GREENWAY PROFILE (A)


AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101


NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.04.01 17:41:50-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045328 JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

| NO. | DATE | REVISION: |
|---|---|---|
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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**GREENWAY PLAN AND PROFILE**

SHEET NO.: △1 **C15.0**

**Public**
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Z:\Jobs\21-002 Moody Development Trust (P21002)\Dwg_Working Dwgs\Construction Set\15.0 Greenway Plan and Profile.dwg April 1, 2025