2 1 PLAN REVISIONS FOR CONSTRUCTION INFRASTRUCTURE DRAWINGS FOR THE PRESERVE AT MOODY FARM

2 1 RTAP CID 26-0004

ORIGINAL CID 24-09 APPROVAL: 08-13-2025

SITUATED AT

1 1720 ROLESVILLE ROAD

WAKE COUNTY, NORTH CAROLINA

SITE INFORMATION	
OWNER	CARUSO BUILDER PRESERVE AT MOODY FARM LLC 2120 BALDWIN AVENUE, STE 200 CROFTON, MD 21114-2870
REAL ESTATE ID	0048383 AND 0048422
PIN NUMBERS	1767284925,1767284304, & 1767383432
DEED BOOK	DB:020012 PG:01885-01888 , AND DB:020016 PG:02112-02116
EXISTING ZONING	R-3 CZ
TOTAL PROJECT ACREAGE	49.92 AC
GOVERNMENTAL USE	0.48 AC
2 AREA IN LOTS	24.50 AC
AREA IN ROW	6.74 AC
EXISTING ROW	0.27 AC
DEDICATED ROW	0.14 AC
2 TOTAL LOTS	80
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.
2 OPEN SPACE PROVIDED	37% / 18.67 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
STREAM INDEX	27-26

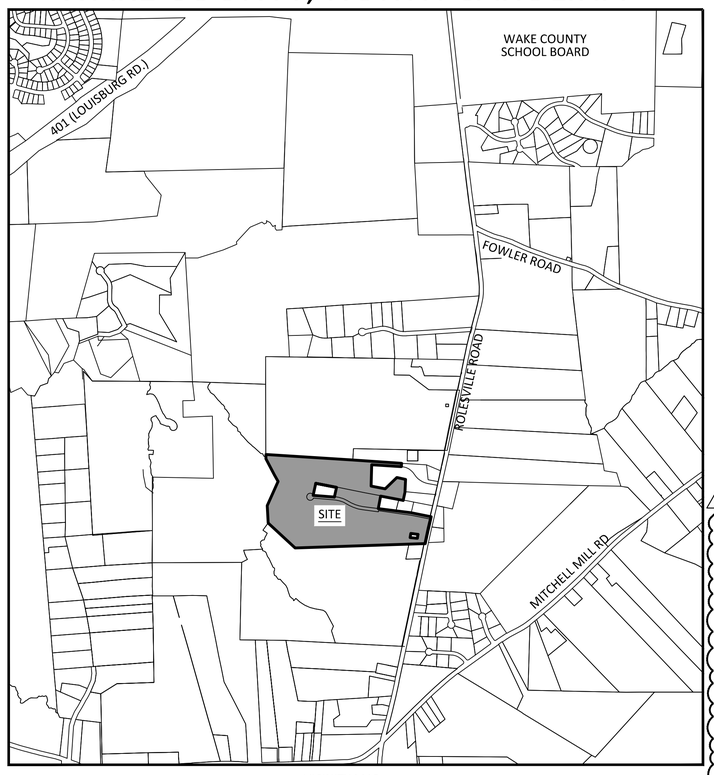
GENERAL NOTES:
1. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL (1-800-632-4949) TO LOCATE ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING UTILITIES AND NOTIFY THE PROJECT ENGINEER (919-469-1101) OF ANY CONFLICTS.
3. ALL 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.

2 1

RALEIGH WATER INSPECTIONS QUANTITIES (SUBDIVISIONS AND SITE PLANS)			
PHASE NUMBER	PHASE 1	PHASE 2	PHASE 3
NUMBER OF LOTS	17	50	13
NUMBER OF UNITS	17	50	13
PUBLIC WATER (LF)	1,650	3,328	643
PUBLIC SEWER (LF)	2,880	3,512	474
PRIVATE SEWER* (LF)	N/A	N/A	N/A
WATER SERVICE STUBS (QUANTITY)	20	51	13
SEWER SERVICE STUBS (QUANTITY)	20	51	13
AVERAGE DAILY FLOW PER PHASE**	6,000 GPD	15,900 GPD	3,900 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)



VICINITY MAP
SCALE: 1"=1000'

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.

2 1 CID-26-0004 IS A REVISION TO THE ORIGINALLY APPROVED CID 24-09 DATED AUGUST 13,2025. THE REVISIONS NOTED AS DELTA 1 INCLUDE, BUT ARE NOT LIMITED TO, REVISED CONSTRUCTION PHASE LIMITS AND THE REALIGNMENT OF THE SANITARY SEWER MAIN ALONG TANSLEY CREST LOOP AND VINTAGE VINERY COURT. PROJECT INFRASTRUCTURE, EASEMENTS, DIMENSIONS, LOT LINES, PROFILES, AND TABULATIONS HAVE BEEN UPDATED ACCORDINGLY. ALTHOUGH EROSION AND SEDIMENT CONTROL DESIGN INTENT REMAINS CONSISTENT WITH ORIGINAL APPROVAL, THE PROJECT CONSTRUCTION SEQUENCE HAS BEEN MODIFIED TO REFLECT NEW CONSTRUCTION PHASING PLAN.THE REVISIONS NOTED AS DELTA 2 INCLUDE A LOT WIDENING OPERATION WHICH REMOVES TWO LOTS, MAKING THE TOTAL 80, WITH NUMERICAL NUMBERING REMAINING TO THE ORIGINALLY APPROVED CID 24-09. UTILITY SERVICES ALONG VINTAGE VINERY COURT HAVE BEEN REVISED TO REFLECT THIS OPERATION. LOT GRADING HAS BEEN REVISED TO UPDATED LOT LINES CONSISTENT WITH CID 24-09 GRADING DESIGN INTENT.

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.
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.

REQUIRED APPROVALS	
PERMIT	PERMIT NUMBER:
POND REMOVAL PERMIT	SEC-063778-2021
TOWN OF ROLESVILLE PSP	PR 22-01
TOWN OF ROLESVILLE CID	CID 24-09
2 1 TOWN OF ROLESVILLE RTAP	CID-26-0004
WAKE COUNTY EROSION CONTROL	ESC-137379-2024
WAKE COUNTY STORMWATER	SWF-137381-2024
2 1 CITY OF RALEIGH PERMIT	MRCP-0022-2025
CITY OF RALEIGH WATER	W-4212
CITY OF RALEIGH SEWER	S-5616
NCDOT 3-PARTY	E051-092-24-01477
NCDOT DRIVEWAY	D051-092-24-00202

PROPERTY OWNER:	CARUSO BUILDER PRESERVE AT MOODY FARM LLC 2120 BALDWIN AVENUE, STE 200 CROFTON, MD 21114-2870
DEVELOPER:	CARUSO HOMES CONTACT: GARRICK WIER 110 HORIZON DRIVE, SUITE 320 RALEIGH, NC 27615 240-610-9404
SURVEYOR:	WITHERS RAVENEL CONTACT: MATT TIMLIN 115 MACKENAN DRIVE CARY, NC 27511 919-469-3340
BUFFER/WETLAND:	WITHERS RAVENEL CONTACT: TROY BEASLEY 115 MACKENAN DRIVE CARY, NC 27511 919-469-3340
ENGINEER:	AMERICAN ENGINEERING JAKOB KLEIN, PE 4020 WESTCHASE BLVD, STE 450 RALEIGH, NC27607 919-469-1101

Rolesville
Genuine Community • Capital Connection • Est. 1837
Planning

CID-26-0004 / Construction Infrastructure Drawing
(Revision to CID-24-09) / Preserve at Moody Farm
APPROVED – August 3, 2026

Town of Rolesville Planning Department

2 1

PROPOSED IMPERVIOUS TABULATION	
LAND COVER	AREA (AC)
ROADWAYS	3.70
ROOFS	7.89
STORMWATER CONTROL MEASURES	1.17
SIDEWALK/GREENWAY	1.18
PARKING	0.05
DRIVEWAY	1.14
TOTAL:	**15.13**

1 1

SITE LIGHTING TABLE		
PHASE	STREET	# OF POLES
1	CLOVER COTTAGE LN.	1
1	WINE BERRY BUSH LN.	1
1	MAIL KIOSK	1
1	MULBERRY TREE DR.	5
2	MULBERRY TREE DR.	4
2	VINTAGE VINERY CT.	6
2	TANSLEY CREST LOOP	4
3	TANSLEY CREST LOOP	2
3	CRANAPPLE LN.	2
TOTAL		26

NOTE: SEE PROJECT DUKE ENERGY SITE LIGHTING SHEET ES100 & ES101. SITE LIGHTING INFRASTRUCTURE TO REMAIN IN PUBLIC RIGHT-OF-WAY

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'

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL ☐ SEC- 137379-2024
STORMWATER MGMT. ☐ SWF- 137381-2024
FLOOD STUDY ☐ SWF-_____
DATE 10/01/2025
Elizabeth Powell
ENVIRONMENTAL CONSULTANT SIGNATURE

RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by this approval must proceed in accordance with the City of Raleigh Standards. Approval may not be valid once issued. Any changes must be approved by Raleigh Water prior to construction.
Timothy Beasley
2026.08.18 09:35:49-04'00'

MRCP-0022-2025

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 # S-5616

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 # W-4212

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

SHEET INDEX	
Sheet Number	Sheet Title
2 1 CVR	COVER
C1.0	OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN
1 C2.0	GENERAL NOTES
C2.1	GENERAL NOTES
C3.0	OVERALL ESC STAGE 1
C3.1	ESC STAGE 1 A
C3.2	ESC STAGE 1 B
C3.3	ESC STAGE 1 C
C3.4	ESC STAGE 1 D
C3.5	OVERALL ESC STAGE 2
C3.6	ESC STAGE 2 A
C3.7	ESC STAGE 2 B
C3.8	ESC STAGE 2 C
C3.9	ESC STAGE 2 D
C3.10	OVERALL ESC STAGE 3
C3.11	ESC STAGE 3 A
C3.12	ESC STAGE 3 B
C3.13	ESC STAGE 3 C
C3.14	ESC STAGE 3 D
C3.15	NPDES PLAN
2 1 C4.0	OVERALL SITE PLAN
2 1 C4.1	SITE PLAN A
1 C4.2	SITE PLAN B
2 1 C4.3	SITE PLAN C
1 C4.4	SITE PLAN D
2 1 C4.5	PHASING PLAN
2 C4.6	OPEN SPACE AND LAND USE PLAN
2 1 C5.0	OVERALL DRAINAGE PLAN
2 C5.1	DRAINAGE PLAN A
C5.2	DRAINAGE PLAN B
2 1 C5.3	DRAINAGE PLAN C
C5.4	DRAINAGE PLAN D
2 1 C6.0	OVERALL UTILITIES PLAN
2 C6.1	UTILITY PLAN A
1 C6.2	UTILITY PLAN B
2 1 C6.3	UTILITY PLAN C
1 C6.4	UTILITY PLAN D
1 C7.0	SCHEDULE
1 C7.1	SCHEDULE
C8.0	SCM 1
C8.1	SCM 2
C8.2	SCM 3
C8.3	SCM 4
1 C8.4	SCM 5
C8.5	CULVERT CROSSING
C9.0	MULBERRY PLAN AND PROFILE
C9.1	MULBERRY PLAN AND PROFILE
1 C10.0	TANSLEY CREST LOOP PLAN AND PROFILE
1 C10.1	TANSLEY BACKYARD PLAN AND PROFILE
1 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
1 C14.0	STORM OUTFALL PLAN AND PROFILES
C15.0	GREENWAY PLAN AND PROFILE
C15.1	GREENWAY PLAN AND PROFILE
CD1	EROSION CONTROL DETAILS
CD2	EROSION CONTROL DETAILS
CD3	EROSION CONTROL DETAILS
CD4	EROSION CONTROL DETAILS
CD5	EROSION CONTROL DETAILS
CD6	UTILITY DETAILS
CD7	UTILITY DETAILS
1 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
2 L1	LANDSCAPE PLAN
L2	BUFFER PLAN
L3	PLANTING NOTES AND DETAILS
ES100	OVERALL SITE LIGHTING PLAN - NO GRID
ES101	OVERALL SITE LIGHTING PLAN
1 APPENDIX	NCDOT ROLESVILLE ROAD GAP APPROVED PLANS

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: 2026.08.14 [illegible]-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 56528 JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER
2	07/01/2026	RTAP - LOT WIDENING

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

1 2

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
COVER

SHEET NO.:
CVR

August 12, 2025
23\civil\21-002 Moody Development Tract\R21000\Plans_Working Dwgs\Construction Set\01A CVR.dwg

LOT ADRESSING

LOT #	STREET #	STREET NAME	SFD/TH	MAX IMP. PER LOT
1	1201	CLOVER COTTAGE LN.	SFD	4800 SF
2	1205	CLOVER COTTAGE LN.	SFD	4800 SF
3	1209	CLOVER COTTAGE LN.	SFD	4800 SF
4	1217	CLOVER COTTAGE LN.	SFD	4800 SF
5	1216	CLOVER COTTAGE LN.	SFD	4800 SF
6	1212	CLOVER COTTAGE LN.	SFD	4800 SF
7	1208	CLOVER COTTAGE LN.	SFD	4800 SF
8	1200	CLOVER COTTAGE LN.	SFD	4800 SF
9	2201	WINEBERRY BUSH LN.	SFD	4800 SF
10	2209	WINEBERRY BUSH LN.	SFD	4800 SF
11	2213	WINEBERRY BUSH LN.	SFD	4800 SF
12	2217	WINEBERRY BUSH LN.	SFD	4800 SF
13	2220	WINEBERRY BUSH LN.	SFD	4800 SF
14	2216	WINEBERRY BUSH LN.	SFD	4800 SF
15	2212	WINEBERRY BUSH LN.	SFD	4800 SF
16	2208	WINEBERRY BUSH LN.	SFD	4800 SF
17	2204	WINEBERRY BUSH LN.	SFD	4800 SF
18	504	VINTAGE VINERY CT.	SFD	4800 SF
19	508	VINTAGE VINERY CT.	SFD	4800 SF
20	512	VINTAGE VINERY CT.	SFD	4800 SF
21	516	VINTAGE VINERY CT.	SFD	4800 SF
22	520	VINTAGE VINERY CT.	SFD	4800 SF
23	524	VINTAGE VINERY CT.	SFD	4800 SF
24	532	VINTAGE VINERY CT.	SFD	4800 SF
25	536	VINTAGE VINERY CT.	SFD	4800 SF
26	540	VINTAGE VINERY CT.	SFD	4800 SF
28	544	VINTAGE VINERY CT.	SFD	4800 SF
29	548	VINTAGE VINERY CT.	SFD	4800 SF
30	552	VINTAGE VINERY CT.	SFD	4800 SF
31	556	VINTAGE VINERY CT.	SFD	4800 SF
32	560	VINTAGE VINERY CT.	SFD	4800 SF
33	600	VINTAGE VINERY CT.	SFD	4800 SF
34	604	VINTAGE VINERY CT.	SFD	4800 SF
35	608	VINTAGE VINERY CT.	SFD	4800 SF
36	616	VINTAGE VINERY CT.	SFD	4800 SF
37	620	VINTAGE VINERY CT.	SFD	4800 SF
38	625	VINTAGE VINERY CT.	SFD	4800 SF
39	621	VINTAGE VINERY CT.	SFD	4800 SF
40	617	VINTAGE VINERY CT.	SFD	4800 SF
41	609	VINTAGE VINERY CT.	SFD	4800 SF
42	605	VINTAGE VINERY CT.	SFD	4800 SF
43	601	VINTAGE VINERY CT.	SFD	4800 SF
44	4220	TANSLEY CREST LOOP	SFD	4800 SF
45	4224	TANSLEY CREST LOOP	SFD	4800 SF
46	4228	TANSLEY CREST LOOP	SFD	4800 SF
47	4300	TANSLEY CREST LOOP	SFD	4800 SF
48	4304	TANSLEY CREST LOOP	SFD	4800 SF
49	4308	TANSLEY CREST LOOP	SFD	4800 SF
50	1529	CRANAPPLE LN.	SFD	4800 SF
51	1525	CRANAPPLE LN.	SFD	4800 SF
52	1521	CRANAPPLE LN.	SFD	4800 SF
53	1517	CRANAPPLE LN.	SFD	4800 SF
54	1513	CRANAPPLE LN.	SFD	4800 SF
55	1509	CRANAPPLE LN.	SFD	4800 SF
56	1505	CRANAPPLE LN.	SFD	4800 SF
57	1504	CRANAPPLE LN.	SFD	4800 SF
58	1508	CRANAPPLE LN.	SFD	4800 SF
59	1512	CRANAPPLE LN.	SFD	4800 SF
60	1516	CRANAPPLE LN.	SFD	4800 SF
61	1524	CRANAPPLE LN.	SFD	4800 SF
62	1528	CRANAPPLE LN.	SFD	4800 SF
63	481	MULBERRY TREE DR.	SFD	4800 SF
64	477	MULBERRY TREE DR.	SFD	4800 SF
65	473	MULBERRY TREE DR.	SFD	4800 SF
66	469	MULBERRY TREE DR.	SFD	4800 SF
67	465	MULBERRY TREE DR.	SFD	4800 SF
68	464	MULBERRY TREE DR.	SFD	4800 SF
69	460	MULBERRY TREE DR.	SFD	4800 SF
70	456	MULBERRY TREE DR.	SFD	4800 SF
71	452	MULBERRY TREE DR.	SFD	4800 SF
72	448	MULBERRY TREE DR.	SFD	4800 SF
73	517	VINTAGE VINERY CT.	SFD	4800 SF
74	521	VINTAGE VINERY CT.	SFD	4800 SF
75	533	VINTAGE VINERY CT.	SFD	4800 SF
77	537	VINTAGE VINERY CT.	SFD	4800 SF
78	541	VINTAGE VINERY CT.	SFD	4800 SF
79	545	VINTAGE VINERY CT.	SFD	4800 SF
80	549	VINTAGE VINERY CT.	SFD	4800 SF
81	553	VINTAGE VINERY CT.	SFD	4800 SF
82	557	VINTAGE VINERY CT.	SFD	4800 SF
EXISTING	416	MULBERRY TREE DR.	SFD	4800 SF
EXISTING	432	MULBERRY TREE DR.	SFD	4800 SF
EXISTING	476	MULBERRY TREE DR.	SFD	4800 SF

NOTE: LOT 27 AND 76 HAVE BEEN REMOVED FROM PROJECT SCOPE WITH RTAP #2

FEATURE ADRESSING

FEATURE	STREET #	STREET NAME
ENTRANCE SIGN	1722	ROLESVILLE RD.
OPEN SPACE 1 & CEMETERY	1213	CLOVER COTTAGE LN.
OPEN SPACE 2 & MAIL KIOSK	421	MULBERRY TREE DR.
OPEN SPACE 3	4313	TANSLEY CREST LOOP
OPEN SPACE 4	4320	TANSLEY CREST LOOP
OPEN SPACE 5	624	VINTAGE VINERY CT.
OPEN SPACE 6	500	VINTAGE VINERY CT.
OPEN SPACE 7	528	VINTAGE VINERY CT.
OPEN SPACE 8	1501	CRANAPPLE LN.
BOARDWALK AT SCM #4	4316	TANSLEY CREST LOOP
BOARDWALK AT SCM #1 & #2	4315	TANSLEY CREST LOOP

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 MAY BE ASSOCIATED WITH THIS PERMIT [COMPLETE].
2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY WATERSHED MANAGER [COMPLETE].
3. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE IS TO BE NO CONTRACTOR PARKING, STOCKPILING, STAGING, AND/OR BLOCKED ACCESS AT ANYTIME DURING CONSTRUCTION ACTIVITIES.
4. ENSURE THAT ALL LIMITS OF DISTURBANCE, SURFACE WATERS, AND RIPARIAN BUFFERS ARE FLAGGED PRIOR TO INSTALLATION OF EROSION CONTROL MEASURES [COMPLETE].
5. TREE PROTECTION FENCES, SILT FENCES, AND CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON THE APPROVED EROSION CONTROL PLANS [COMPLETE].
6. DUE TO SITE BEING MASS CLEARED, EROSION CONTROL MEASURES ARE REQUIRED SITE WIDE - AS SEEN IN CONSTRUCTION INFRASTRUCTURE DRAWINGS (CID) APPROVED PLAN SET. CONSTRUCTION PHASES HAVE BEEN REVISED FOR THE PROJECT AS SEEN ON CID PLAN SHEET C4.5. THE ENTIRE SITE, REGARDLESS OF PHASED CONSTRUCTION, IS TO MAINTAIN EROSION & SEDIMENT CONTROL (E&SC) COMPLIANCE FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
7. STOCKPILE LOCATIONS SHOULD BE ENCLOSED BY SILT FENCE AS SHOWN ON THE PLANS. SEED TEMPORARY DIVERSIONS, BERMS, AND SEDIMENT BASINS IMMEDIATELY AFTER CONSTRUCTION.
8. CONTRACTOR TO INSTALL BRIDGE MAT AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS FOR CREEK CROSSING, SEE PROJECT DETAILS.
9. THE TEMPORARY SEDIMENT BASINS (TSB) ARE TO BE FULLY CONSTRUCTED PRIOR TO THE INSTALLATION OF ANY TEMPORARY DIVERSION DITCHES (TDD) OR PERMANENT DIVERSION DITCHES (PDD). CONSTRUCT TSBS #1-#5 FOLLOWING THE PROJECT CID PLAN SET. CONSTRUCT TEMPORARY SEDIMENT TRAP (TST) #1 FOLLOWING THE PROJECT APPROVED CID PLAN SET. INSTALL DIVERSION DIKES #1-#3 TO DIVERT RUNOFF AWAY FROM THE STREAM AND TO SEDIMENT TRAPS.
10. INSTALL BYPASS POD #6 AND #7. INSTALL FOUR (4) TDD'S AND EIGHT (8) PDD'S TO CONVEY RUNOFF TO TSB #1 THRU TSB#5 AS SEEN IN THE CID PLAN SET. SEE PROJECT SCHEDULE SHEETS FOR RECOMMENDED CALCULATIONS AND LINERS.
11. INSTALL ANY PERMANENT/TEMPORARY STORMWATER INFRASTRUCTURE NOTED IN THE STAGE 1 OF THE APPROVED CID PLAN SET. ANY PERMANENT STORMWATER INFRASTRUCTURE INSTALLED FOR STAGE 1 CONVEYANCE IS TO BE UTILIZED AND MAINTAINED THROUGH ALL THREE (3) STAGES OF EROSION AND SEDIMENT CONTROL. THE INFRASTRUCTURE WILL NEED TO BE MONITORED FOR SEDIMENT BUILD UP AND CLEANED PERIODICALLY. THESE PERMANENT PIPES AND STRUCTURES WILL SERVE THE TEMPORARY SEDIMENT BASINS AND ACT AS INLETS/OUTLETS FOR THE TDD'S AND PDD'S UNTIL THEY ARE EVENTUALLY MODIFIED TO FINAL SITE DESIGN IN STAGE 3 (FOLLOWING FINAL SITE STABILIZATION). THESE STORM DRAINAGE STRUCTURES MAY NEED TO BE MODIFIED AS THE PROJECT SITE IS BROUGHT TO THE FINAL GRADE ELEVATIONS. SEE EROSION AND SEDIMENT CONTROL PLANS FOR MORE DETAIL.
12. ANY STORMWATER INFRASTRUCTURE INSTALLED SHOULD HAVE INLETS PROTECTED WITH BLOCK AND GRAVEL INLET CONTROL, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN IN THE CID PLAN SET.
13. RIP RAP DISSIPATERS ARE TO BE INSTALLED AS SEEN IN THE CID PLAN SET SCHEDULES SHEET.
14. CALL FOR AN ONSITE INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER TO OBTAIN A CERTIFICATE OF COMPLIANCE. ADDITIONAL MEASURES OR DITCH EXTENSIONS MAY BE REQUIRED BY THE WAKE COUNTY FIELD INSPECTOR TO ROUTE RUNOFF TO SEDIMENT BASINS BASED ON FIELD CONDITIONS AND THESE MEASURES SHALL BE INSTALLED UPON THE INSPECTOR'S DETERMINATION.
15. STABILIZE SITE AREAS THAT ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH-LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.
16. CONSTRUCTION PHASES 2 AND 3, AS SEEN ON SHEET C4.5, ARE TO REMAIN IN STAGE 1 OF E&SC FOR THE DURATION PHASE 1 CONSTRUCTION. CONSTRUCTION PHASE 2 AND 3 CAN PROGRESS TO STAGE 2 OF THE E&SC PLAN, IDEALLY AT THE SAME TIME, ONCE SITE INFRASTRUCTURE HAS BEEN INSTALLED FOR PHASE 1 CONSTRUCTION.
17. CALL FOR INSPECTION BY WAKE COUNTY WATERSHED MANAGER FOR APPROVAL BEFORE PROCEEDING TO STAGE 2 CONSTRUCTION.

STAGE 2 E&SC CONSTRUCTION SEQUENCE:

1. GENERAL SITE GRADING MAY BEGIN. ANY SLOPES GREATER THAN 3:1 ARE TO HAVE ROLLED EROSION CONTROL BLANKETS UTILIZED TO PREVENT SEDIMENT LOSS WHILE AREA IS STABILIZING. SEE STAGE 2 PLAN SHEETS FOR RECOMMENDED AREAS.
2. INSTALL STORM DRAINAGE INFRASTRUCTURE AS SEEN IN THE APPROVED CID PLAN SHEETS. EXCAVATE TRENCH, INSTALL SECTION(S) OF PIPE, BACKFILL AND STABILIZE GROUND DISTURBANCE WITHIN A WORKDAY. IF UNABLE TO FINALIZE A SECTION OF PIPE INSTALLATION BY END OF WORKDAY, ADDITIONAL TEMPORARY E&SC MEASURES MAY BE REQUIRED TO DENUDED AREA.MODIFICATIONS AND/OR RETROFITTING OF STORM DRAINAGE INFRASTRUCTURE INSTALLED IN STAGE 1 WILL BE REQUIRED AS THE FINISH GRADE IS ESTABLISHED ON SITE. IT IS RECOMMENDED THAT, AT A MINIMUM, 100-SERIES PIPE NETWORK IS INSTALLED WITH PHASE 1 CONSTRUCTION, 300-400-500-SERIES ARE INSTALLED WITH PHASE 2 CONSTRUCTION, AND 200-SERIES ARE INSTALLED WITH PHASE 3 CONSTRUCTION.
3. ANY STORMWATER INFRASTRUCTURE INSTALLED SHOULD HAVE INLETS PROTECTED WITH BLOCK AND GRAVEL INLET CONTROL, SEDIMENT TRAPS, OR OTHER APPROVED MEASURES AS SHOWN IN THE PLANS.
4. CULVERT CROSSINGS ARE TO BE INSTALLED. THE MULBERRY ROAD CROSSING IS TO BE CONSTRUCTED IN PHASE 1 CONSTRUCTION AND THE TANSLEY ROAD CROSSING IS TO BE CONSTRUCTED IN PHASE 2 CONSTRUCTION. SEE "CONSTRUCTION SEQUENCE FOR THE 54" RCP CULVERT CROSSING" ON SHEET C8.5 FOR DETAILED CREEK CROSSING CONSTRUCTION SEQUENCE.
5. ROAD CONSTRUCTION SHALL TAKE PLACE GENERALLY AS SHOWN ON PHASING PLAN C4.5. THE CONTRACTOR SHALL ENSURE THAT, AS EACH PHASE IS BROUGHT TO FINAL GRADE ELEVATIONS, DRAINAGE IS ADEQUATELY CAPTURED AT ADJACENT AND SUBSEQUENT PHASE LINES.
6. TEMPORARY SEDIMENT TRAP (TST) #1 TO BE REMOVED, IN PHASE 2 OF CONSTRUCTION, ONCE CONTRIBUTING DRAINAGE AREAS ARE AT FINAL GRADE ELEVATIONS AND FULLY STABILIZED. DIVERSION DIKE #1-#2 CAN BE REMOVED FOLLOWING THE REMOVAL OF TST #1 IN PHASE 2 OF CONSTRUCTION. DIVERSION DIKE #3 CAN BE REMOVED PRIOR TO PHASE 3 CONSTRUCTION OF FINAL ROAD ELEVATIONS.
7. CLEAN SEDIMENT BASINS WHEN ONE-HALF FULL.
8. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL SLOPES WITHIN FOURTEEN (14) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
9. MAINTAIN SOIL EROSION CONTROL MEASURES.
10. UTILITIES (WATER, ELECTRIC, GAS, CABLE TV, TELEPHONE, ETC.) WILL BE INSTALLED DURING THIS PHASE. THE SANITARY SEWER OUTFALL, WHICH CONNECTS TO AN EXISTING MANHOLE ON KALAS 3 PROPERTY, IS TO BE FULLY CONSTRUCTED WITH PHASE 1 CONSTRUCTION. PHASE SPECIFIC WATER MAIN, SEWER MAIN, AND SERVICES ARE TO BE CONSTRUCTED FOLLOWING RECOMMENDATIONS SEEN ON CID APPROVED PLAN SET, SHEET CVR AND C4.5. WATER MAINS ARE TO BE EXTENDED TO NEAREST FIRE HYDRANT ASSEMBLY LOCATED ON SUBSEQUENT PHASE. WATER AND SEWER MAINS ARE TO PASS CITY OF RALEIGH APPLICABLE TESTING AN INSPECTION AND BE CONDITIONALLY APPROVED PRIOR TO PURSUING FINAL PLAT OF A SPECIFIC CONSTRUCTION PHASE.
11. CALL FOR INSPECTION BY WAKE COUNTY WATERSHED MANAGER FOR APPROVAL BEFORE PROCEEDING TO STAGE 3 CONSTRUCTION. AS PHASE 1 OF CONSTRUCTION PROGRESSES TO STAGE 3 E&SC, PHASE 2 AND 3 CONSTRUCTION IS TO PROGRESS TO STAGE 2 OF E&SC PLAN. AS PHASE 2 OF CONSTRUCTION PROGRESSES TO STAGE 3 OF E&SC, PHASE 3 OF CONSTRUCTION IS TO REMAIN IN STAGE 2 OF E&SC UNTIL THE COMPLETION OF PHASE 2 SITE WORK. PHASE 3 OF CONSTRUCTION IS TO BE THE LAST PHASE TO PROGRESS TO STAGE 3 OF THE E&SC PLAN.

STAGE 3 E&SC CONSTRUCTION SEQUENCE:

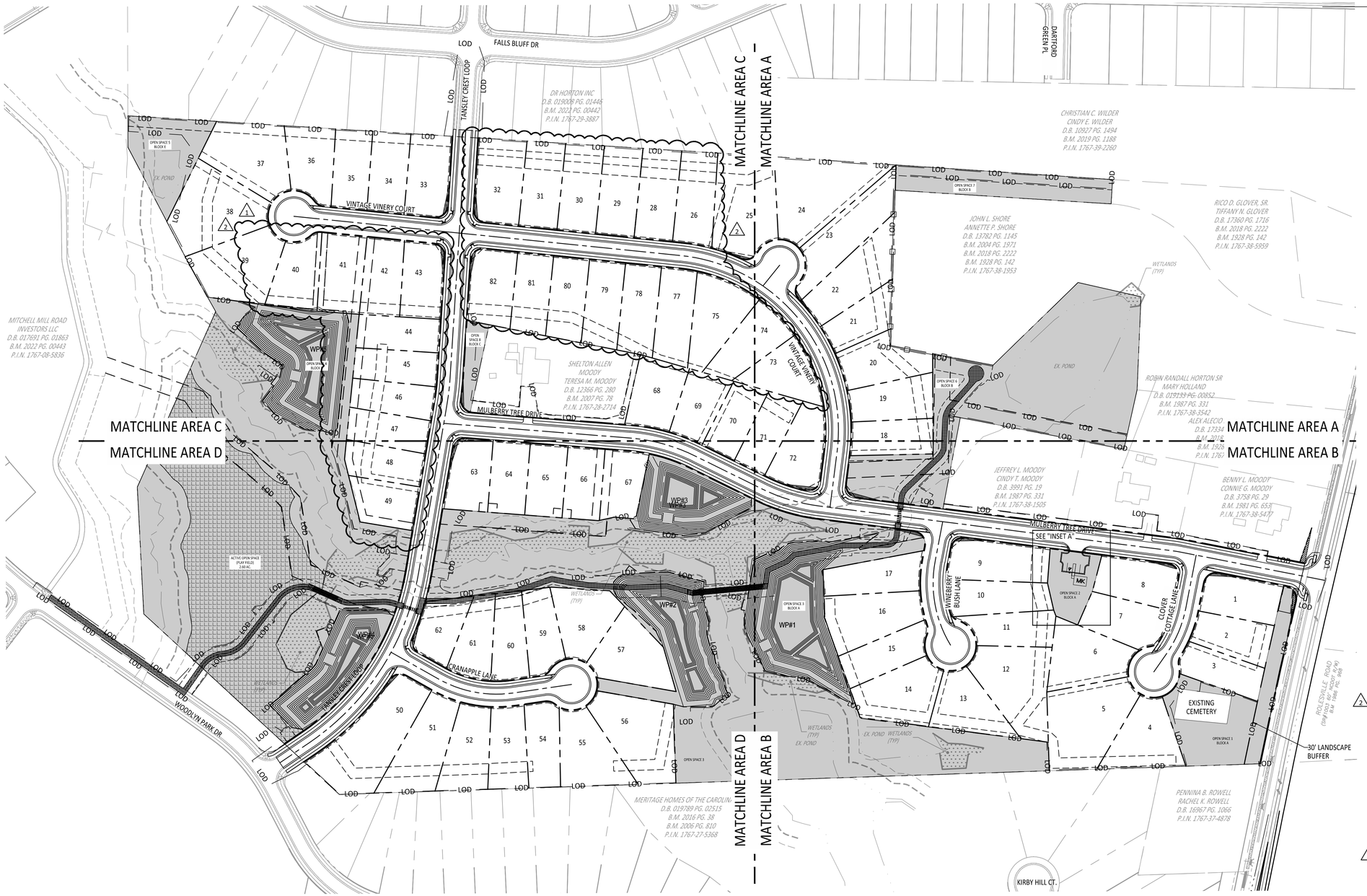
1. CALL FOR AN ONSITE INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER FOR APPROVAL TO CONVERT TSB'S TO STORMWATER CONTROL MEASURES (SCM'S) FOLLOWING THE APPROVED CID PLAN SET. SCM CONVERSION AND AS-BUILT DATA IS TO BE COMPLETED AT THE SAME TIME FOR CONSTRUCTION PHASES 1, 2, AND 3. STORMWATER INFRASTRUCTURE SHOULD BE CLEANED OUT IF SEDIMENT IS VISIBLE WITHIN THE NETWORK.
2. VERTICAL CONSTRUCTION MAY BEGIN.
3. TEMPORARY DIVERSION DITCHES MAY BE REMOVED.
4. CLEAN/INSPECT INLET PROTECTION FOLLOWING ANY STORM EVENTS OF 1" OR EVERY FOURTEEN (14) DAYS.
5. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL SLOPES WITHIN FOURTEEN (14) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
6. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND IS ESTABLISHED.
7. REQUEST INSPECTION BY WAKE COUNTY WATERSHED MANAGER AFTER VEGETATION IS ESTABLISHED TO REMOVE REMAINING EROSION CONTROL MEASURES. FINAL E&SC COMPLIANCE AND PROJECT CLOSE OUT IS TO BE COMPLETED AT THE SAME TIME FOR CONSTRUCTION PHASES 1, 2, AND 3.
8. REMOVE REMAINING SOIL EROSION CONTROL MEASURES AND STABILIZE THE RESULTING BARE AREAS. CONTACT WAKE COUNTY WATERSHED MANAGER TO REQUEST A FINAL INSPECTION FOR APPROVAL TO CLOSE THE LAND DISTURBANCE PERMIT.
9. THE OWNER IS TO FINALIZE THE NCG01 PERMIT FOLLOWING THE COMPLETION OF ALL CONSTRUCTION PHASES.

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.

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 FEM


FALLS BLUFF DR
TANSLEY CREST LOOP
VINTAGE VINERY COURT
MULBERRY TREE DRIVE
CRANAPPLE LANE
WOODLIN PARK DR
DARTFORD GREEN PL
WINEBERRY BUSH LANE
CLOVER COTTAGE LANE
KIRBY HILL CT.
ROLESVILLE ROAD (SR 1008) 60' RIGHT-OF-WAY (WIDTH VARIES) PVMT PVC 9/08
MATCHLINE AREA C
MATCHLINE AREA A
MATCHLINE AREA D
MATCHLINE AREA B
DR HORTON INC
D.B. 019008 PG. 01446
B.M. 2021 PG. 00442
P.I.N. 1767-39-3887
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
SHELTON ALLEN MOODY
TERESA M. MOODY
D.B. 12366 PG. 280
B.M. 2007 PG. 78
P.I.N. 1767-28-2714
ROBIN RANDALL HORTON SR
MARY HOLLAND
D.B. 017139 PG. 00852
B.M. 1987 PG. 331
P.I.N. 1767-38-3542
ALEX ALECIO
D.B. 17334
B.M. 2018
P.I.N. 1767
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
MITCHELL MILL ROAD INVESTORS LLC
D.B. 017691 PG. 01863
B.M. 2022 PG. 00443
P.I.N. 1767-08-5836
MERITAGE HOMES OF THE CAROLINAS
D.B. 019789 PG. 02515
B.M. 2016 PG. 38
B.M. 2006 PG. 810
P.I.N. 1767-27-5368
PENNINA B. ROWELL
RACHEL K. ROWELL
D.B. 16967 PG. 1066
P.I.N. 1767-37-4878
EX. POND
WETLANDS (TYP)
WP#1
WP#2
WP#3
OPEN SPACE 1 BLOCK A
OPEN SPACE 2 BLOCK A
OPEN SPACE 3 BLOCK A
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OPEN SPACE 7 BLOCK A
OPEN SPACE 8 BLOCK A
OPEN SPACE 1 BLOCK B
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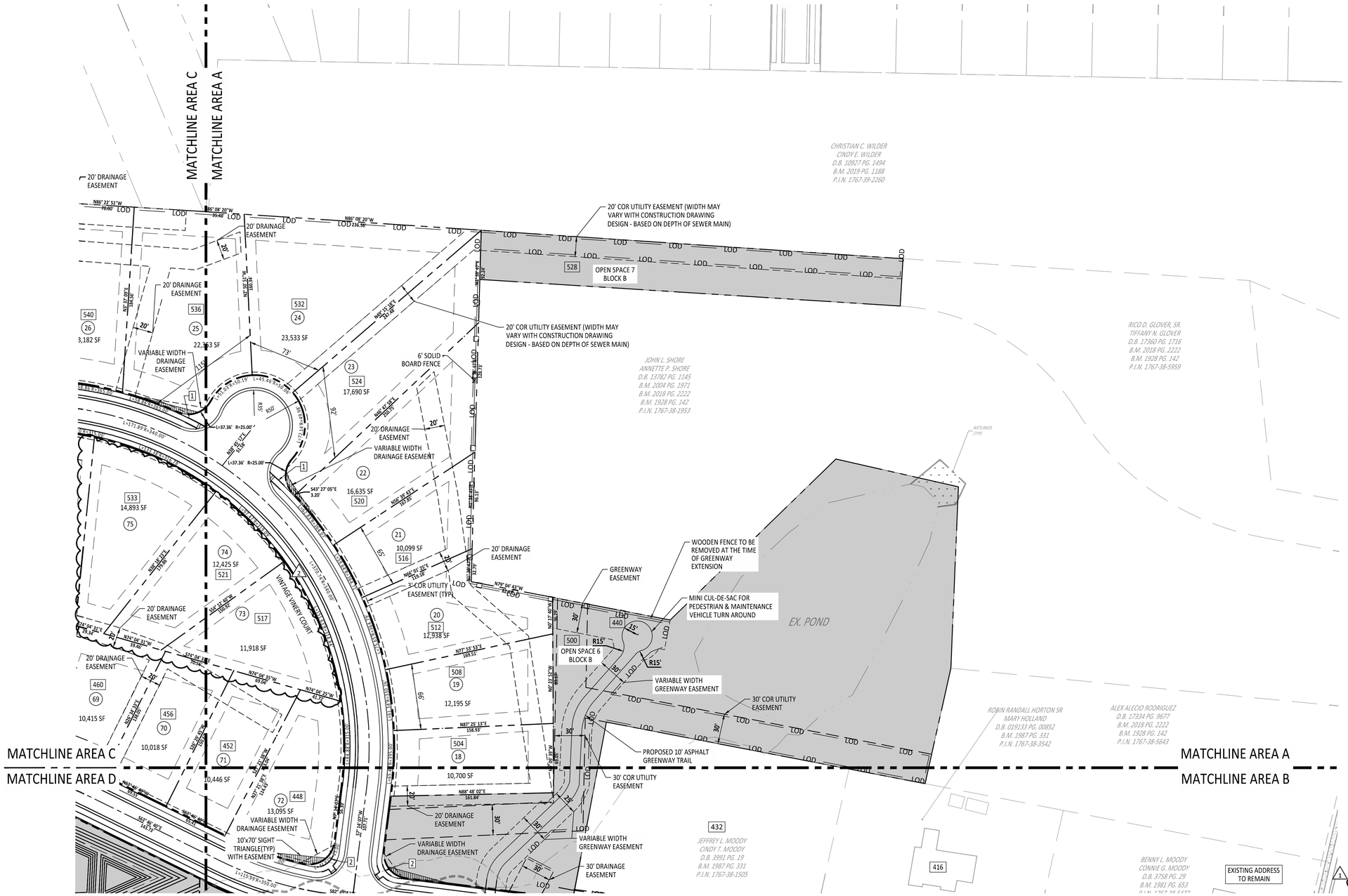


KEYNOTE LEGEND:

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
1	SIGHT TRIANGLE
XXXX	LOT STREET ADDRESS

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'

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: 2026.08.14 09:24:00 -04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
2	07/01/2026	RTAP - PHASE 2 LOT WIDENING

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:

SITE PLAN A

SHEET NO.:

C4.1

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

Z:\Job\21-002 Moody Development Tract (R2100025)\wgL_Working Dwgs\Construction Set\4.0 4.6 SP4 Plan.dwg August 5, 2026

MATCHLINE AREA C
MATCHLINE AREA D

MATCHLINE AREA A
MATCHLINE AREA B

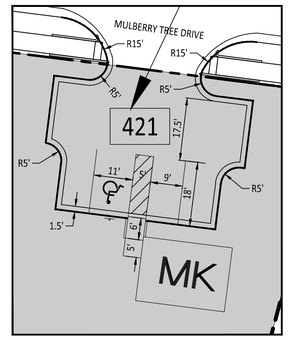
NOTE: OFFSITE IMPROVEMENTS SHOWN ARE CURRENTLY UNDER CONSTRUCTION AND NCDOT APPROVED ON JUNE 5th AS A PART OF E051-092-24-00303. THE PRESERVE AT MOODY FARM NCDOT IMPROVEMENTS ONLY INCLUDE AN UPDATED DRIVEWAY (IN SAME LOCATION AS EXISTING) AND A WATER CONNECTION.

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
1	SIGHT TRIANGLE
XXXX	LOT STREET ADDRESS

INSET A



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

GRAPHIC SCALE

30 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 PROFESSIONAL ENGINEER SEAL 56528 JAKOB P. KLEIN

AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2026.08.14 10:50:20 -04'00'

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:

SITE PLAN B

SHEET NO.:

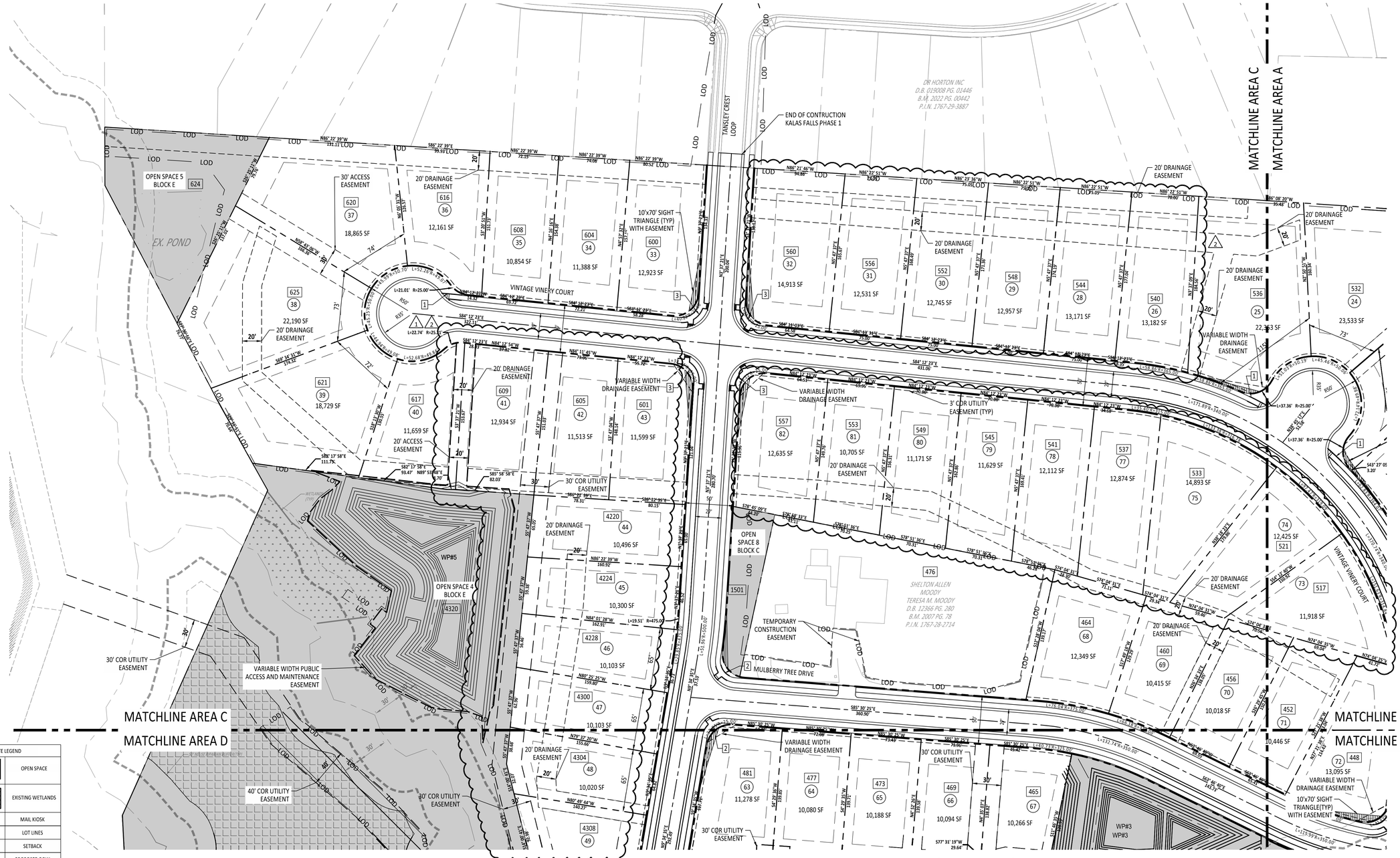
C4.2

North Carolina 811 811 Know what's below. Call before you dig.

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

August 5, 2026

Z:\Jobs\21-002 Moody Development Tract (8210003)\Revit_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
XXXX	LOT STREET ADDRESS

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

WITH RTAP #2, TWO (2) LOTS - LOTS 27 AND 76 - WERE REMOVED FROM THE PROJECT SCOPE. PLEASE NOTE THAT ALTHOUGH THE LOTS ARE NUMBERED THROUGH 82, THE PROJECT CURRENTLY CONSISTS OF 80 LOTS. 2

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

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
OPERATING UNDER

Jacob Klein
Date: 2026.08.14 13:38:59-04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 56528 JACOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER
2	07/01/2026	RTAP - PHASE 2 LOT WIDENING

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM

CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

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

August 5, 2026

P:\Jobs\21-002 Moody Development Trust (#210002)\Dwgs_Working Dwgs\Construction Set\4 & 4 Site Plan.dwg

MATCHLINE AREA C

MATCHLINE AREA D

MATCHLINE AREA A

MATCHLINE AREA B

MATCHLINE AREA D

MATCHLINE AREA B

BLOCK E 4320

MULBERRY TREE DRIVE

CRANAPPLE LANE

WOODLYN PARK DR

TRANSIT CREST LOOP

ACTIVE OPEN SPACE (PLAY FIELD) 2.60 AC.

10' CONCRETE APPROACH PER DETAIL ON CD16

10' BOARDWALK PER DETAIL ON CD16

HIGH VISIBLITY 6' CROSSWALK

PROPOSED 10' CONCRETE ROADWAY TRAIL ALONG WOODLYN PARK DR

10'x70' SIGHT TRIANGLE (TYP) WITH EASEMENT

25' ACCESS AND MAINTENANCE EASEMENT

OPEN SPACE 3 BLOCK A

OPEN SPACE 3

WP#1

WP#2

WP#3

WP#4

EX. POND

WETLANDS (TYP)

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

MERITAGE HOMES OF THE CAROLINAS INC
D.B. 018389 PG. 02515
B.M. 2016 PG. 38
B.M. 2006 PG. 810
P.I.N. 1767-27-5368

4228	46	10,103 SF	4300	47	10,103 SF
4304	48	10,020 SF	4308	49	10,064 SF
481	63	11,278 SF	477	64	10,080 SF
473	65	10,188 SF	469	66	10,094 SF
465	67	10,266 SF	464	68	12,349 SF
460	69	10,415 SF	456	70	10,018 SF
452	71	10,446 SF	448	72	13,095 SF
1528	62	10,030 SF	1524	61	10,486 SF
1516	60	10,753 SF	1512	59	10,329 SF
1508	58	13,530 SF	1504	57	15,229 SF
1529	50	26,229 SF	1525	51	16,923 SF
1521	52	13,520 SF	1517	53	11,524 SF
1513	54	10,607 SF	1509	55	15,460 SF
1505	56	21,480 SF			

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
1	SIGHT TRIANGLE
XXXX	LOT STREET ADDRESS

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

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4300 Wake Forest 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: 2026.08.14 15:04:00 -04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	R/AP - PHASING & SANITARY SEWER

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM

CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:

SITE PLAN D

SHEET NO.:

C4.4

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

August 5, 2026

Z:\Jobs\21-002 Moody (Development Tract II)\2100\01\Revit_Working Dwgs\Construction Set\A1.0 4.6 Site Plan.dwg

PHASE 1	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

PHASE 2	LOT SQ.FT	BLOCK IDENTIFICATION	PHASE 2	LOT SQ.FT	BLOCK IDENTIFICATION
18	10,700	B	63	11,278	D
19	12,195	B	64	10,080	D
20	12,938	B	65	10,188	D
21	10,099	B	66	10,094	D
22	16,635	B	67	10,266	D
23	17,690	B	68	12,349	E
24	23,533	B	69	10,415	E
25	22,353	B	70	10,018	E
26	13,182	B	71	10,446	E
28	13,171	B	72	13,095	E
29	12,957	B	73	11,918	E
30	12,745	B	74	12,425	E
31	12,531	B	75	14,893	E
32	14,913	B	77	12,874	E
33	12,923	C	78	12,112	E
34	11,388	C	79	11,629	E
35	10,854	C	80	11,171	E
36	12,161	C	81	10,705	E
37	18,865	C	82	12,635	E
38	22,190	C			
39	18,729	C			
40	11,659	C			
41	12,934	C			
42	11,513	C			
43	11,599	C			
44	10,496	C			
45	10,300	C			
46	10,103	C			
47	10,103	C			
48	10,020	C			
49	10,064	C			

PHASE 3	LOT SQ.FT	BLOCK IDENTIFICATION
50	26,229	F
51	16,923	F
52	13,520	F
53	11,524	F
54	10,607	F
55	15,460	F
56	21,480	F
57	15,229	F
58	13,530	F
59	10,329	F
60	10,753	F
61	10,486	F
62	10,030	F

LOT TOTALS		
PHASE 1	17	LOTS
	241,388	SQ. FT
PHASE 2	50	LOTS
	640,134	SQ. FT
PHASE 3	13	LOTS
	186,100	SQ. FT

RECOMMENDED SITE INFRASTRUCTURE TO BE CONSTRUCTED PER PHASE		
PHASE 1 (LOTS 1-17)	PHASE 2 (LOTS 18-49 & 63-82)	PHASE 3 (LOTS 50-62)
SANITARY SEWER OUTFALL, PHASE SPECIFIC SANITARY SEWER MAINS & SERVICES, PHASE SPECIFIC WATER MAINS & SERVICES, MAIL KIOSK, STORM DRAINAGE 100 SERIES PIPE NETWORK, MULBERRY CULVERT CROSSING, AND NCDOT OFFSITE IMPROVEMENTS	STORM DRAINAGE 300-400-500 SERIES OF PIPE NETWORKS, TANSLEY CULVERT CROSSING, WATER MAIN CONNECTION TO WOODLYN & FALLS BLUFF, PHASE SPECIFIC WATER MAIN & SERVICES, AND PHASE SPECIFIC SANITARY SEWER MAINS & SERVICES	STORM DRAINAGE 200 SERIES PIPE NETWORK, PHASE SPECIFIC WATER MAIN & SERVICES, PHASE SPECIFIC SANITARY SEWER MAINS & SERVICES, GREENWAYS, AND BOARDWALKS

DEVELOPMENT PHASING TABLE	
PHASE 1	
PHASE 2	
PHASE 3	

NOTES:
1. ALL STAGE 1 EROSION AND SEDIMENT CONTROL (ESC) MEASURES, PERIMETER AND INTERIOR, ARE TO BE INSTALLED IN PHASE 1 OF CONSTRUCTION. WHILE A SPECIFIC PHASE IS BEING CONSTRUCTED, SUBSEQUENT CONSTRUCTION PHASE AREAS MUST REMAIN COMPLIANT WITH ESC FIELD INSPECTOR.
2. SEE PROJECT EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE FOR ADDITIONAL PHASING INFORMATION.
3. SEE CITY OF RALEIGH INSPECTION QUANTITIES TABLE LOCATED ON THE COVER SHEET FOR UTILITY INFRASTRUCTURE TO BE INSTALLED WITHIN EACH PHASE.
4. ANY UTILITY MAINS CONSTRUCTED WITHIN A SPECIFIC PHASE ARE TO BE CONDITIONALLY APPROVED BY THE CITY OF RALEIGH PRIOR TO APPROVAL OF FINAL PLAT.
5. PLEASE SEE APPLICABLE CID PLAN SHEET FOR ANY DESIGN ELEMENTS REFERENCED ON PHASING PLAN.
6. WITH RTAP #2, TWO (2) LOTS - LOTS 27 AND 76 - WERE REMOVED FROM THE PROJECT SCOPE. PLEASE NOTE THAT ALTHOUGH THE LOTS ARE NUMBERED THROUGH 82, THE PROJECT CURRENTLY CONSISTS OF 80 LOTS.

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: 2026.08.14 08:50:04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER
2	07/01/2026	RTAP - PHASE 2 LOT WIDENING

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM

CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

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.html

Z:\Jobs\21-002 Moody Development Tract (R21000)\Land_Working Dwgs\Construction Set\C4.0-4.9 Site Plan.dwg August 5, 2026

WITH RTAP #2, TWO (2) LOTS - LOTS 27 AND 76 - WERE REMOVED FROM THE PROJECT SCOPE. PLEASE NOTE THAT ALTHOUGH THE LOTS ARE NUMBERED THROUGH 82, THE PROJECT CURRENTLY CONSISTS OF 80 LOTS. 2

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch =100

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

SITE INFORMATION	
TOTAL PROJECT ACREAGE	48.28 AC
GOVERNMENTAL USE	0.48 AC
AREA IN LOTS	24.50 AC 2
AREA IN ROW	6.74 AC
OPEN SPACE REQ.	10% / 5 AC.
OPEN SPACE PROVIDED	37% / 18.67 AC 2
ACTIVE REQUIRED	2.5 AC (50% OF 5 AC)
ACTIVE SHOWN	2.7 AC

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

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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2026.08.14 09:50:04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
2	07/01/2026	RTAP - PHASE 2 LOT WIDENING

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM

CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:

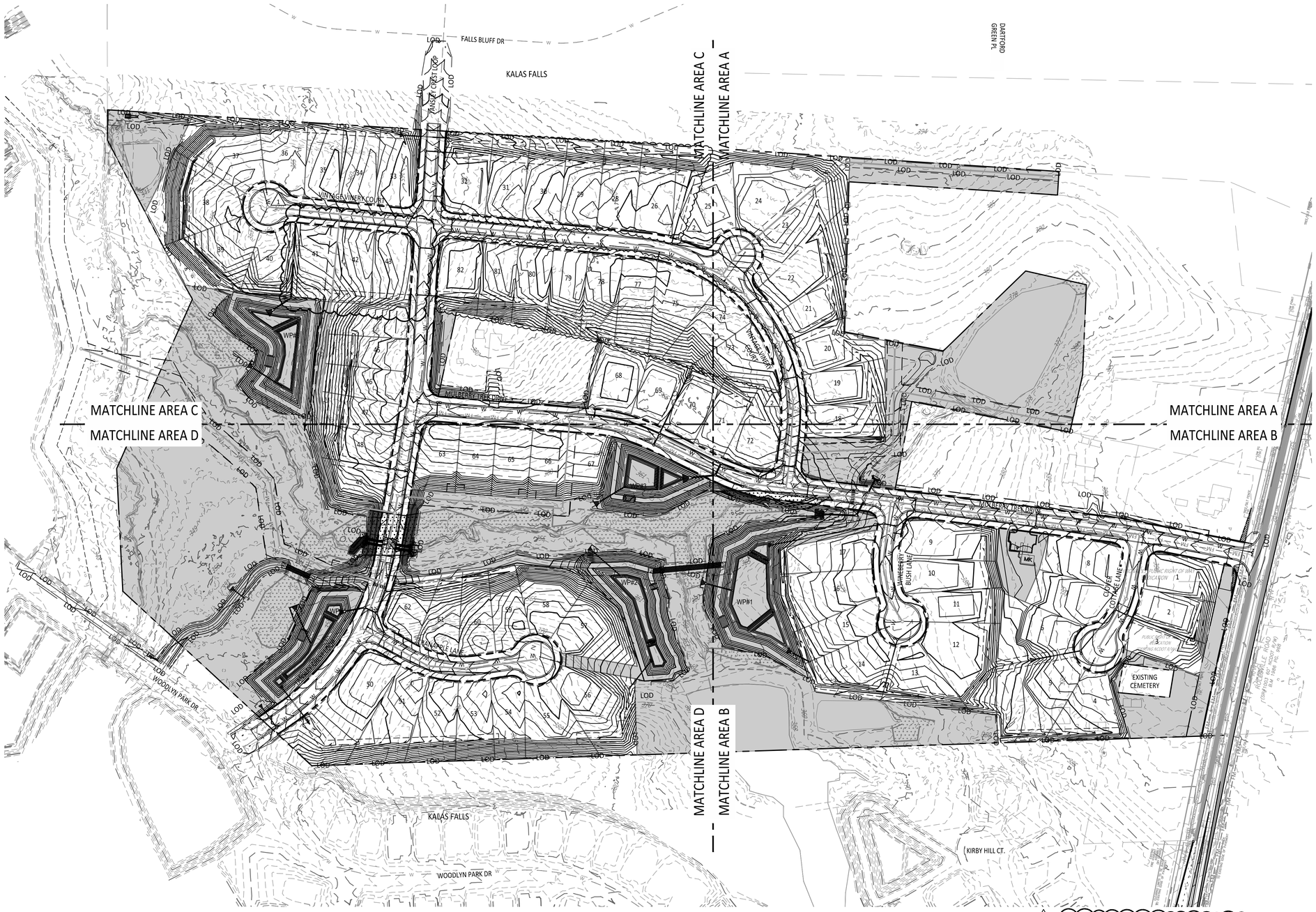
OPEN SPACE AND LAND USE PLAN

SHEET NO.:
C4.6

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

August 6, 2026

Z:\Jobs\21-002 Moody Development Tract (9210002)\dwg_Working Dwgs\Construction Set\4-0-4.5 Site Plan.dwg



1 NOTE: ALL PROJECT STORMWATER CONTROL MEASURES (SCM) TO BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION (HOA)

MRCP-0022-2025

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 # S-5616

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 # W-4212

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 450 919-469-1101
Raleigh, NC 27607

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

Digitally signed by Jakob Klein
Date: 2026.08.14 10:04:04 -04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE:	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER
2	07/01/2026	RTAP - PHASE 2 LOT WIDENING

STIPULATION FOR REUSE

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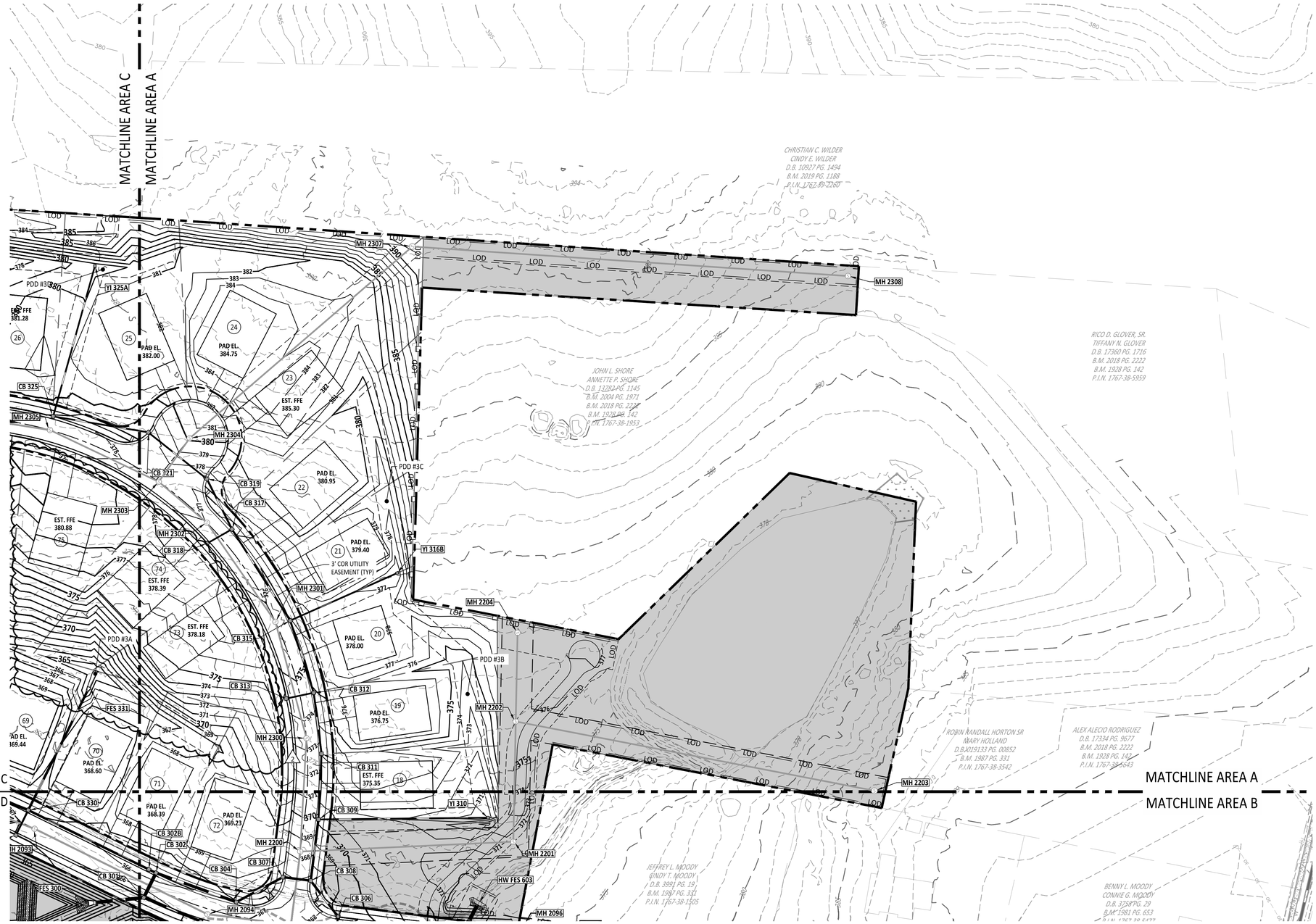
THE PRESERVE AT MOODY FARM
CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
OVERALL DRAINAGE PLAN

SHEET NO.:
C5.0

Z:\Jobs\21-002 Moody Development Trust (9210003)\Dwg_Working Dwgs\Construction Set\5-0 5.5 Drainage and Grading Plan.dwg August 5, 2026



GRADING & DRAINAGE NOTES:

1. PDD ABBREVIATES PERMANENT DIVERSION DITCH.
2. THIS GRADING PLAN SUPPORTS THE IMPLEMENTATION OF CRAWL SPACE AND BASEMENT FOUNDATIONS. CONTRACTOR TO DETERMINE THE PREFERRED FOUNDATION TYPE ON A LOT BY LOT BASIS.
3. PAD ELEVATIONS HAVE BEEN PROVIDED FOR SELECT LOTS WHERE IT IS ANTICIPATED THAT THE FOUNDATION WILL HAVE TO BE BUILT UP FROM PROPOSED GRADE TO MAINTAIN DRAINAGE AND GRADING DESIGN ON SITE.
4. EST. FFE ABBREVIATES ESTIMATED FINISH FLOOR ELEVATION.
5. THE ESTIMATED FINISH FLOOR ELEVATION PROVIDED FOR SELECT LOTS IS AN APPROXIMATE. FINAL FINISH FLOOR ELEVATION, FINE GRADING, AND DRIVEWAY & BUILDING LOCATIONS TO BE ESTABLISHED BY THE CONTRACTOR/ARCHITECT AT THE TIME OF BUILDING PERMITS.
6. APPROVED CID DRAINAGE PATTERNS AND EASEMENTS TO BE MAINTAINED WITH FINE GRADING ACTIVITIES.
7. DRIVEWAY LONGITUDINAL SLOPES TO BE A MINIMUM OF 2.00% AND A MAXIMUM OF 10.00%.
8. BUILDING AND DRIVEWAYS SHOWN ARE APPROXIMATES TO CONVEY DESIGN INTENT.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50

SITE LEGEND	
	OPEN SPACE
	EXISTING WETLANDS
MH	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
XXXX	LOT STREET ADDRESS

MRCP-0022-2025

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 # S-5616

Public
Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # W-4212

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
2026.08.14 [illegible]

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
2	07/01/2026	RTAP - PHASE 2 LOT WIDENING

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

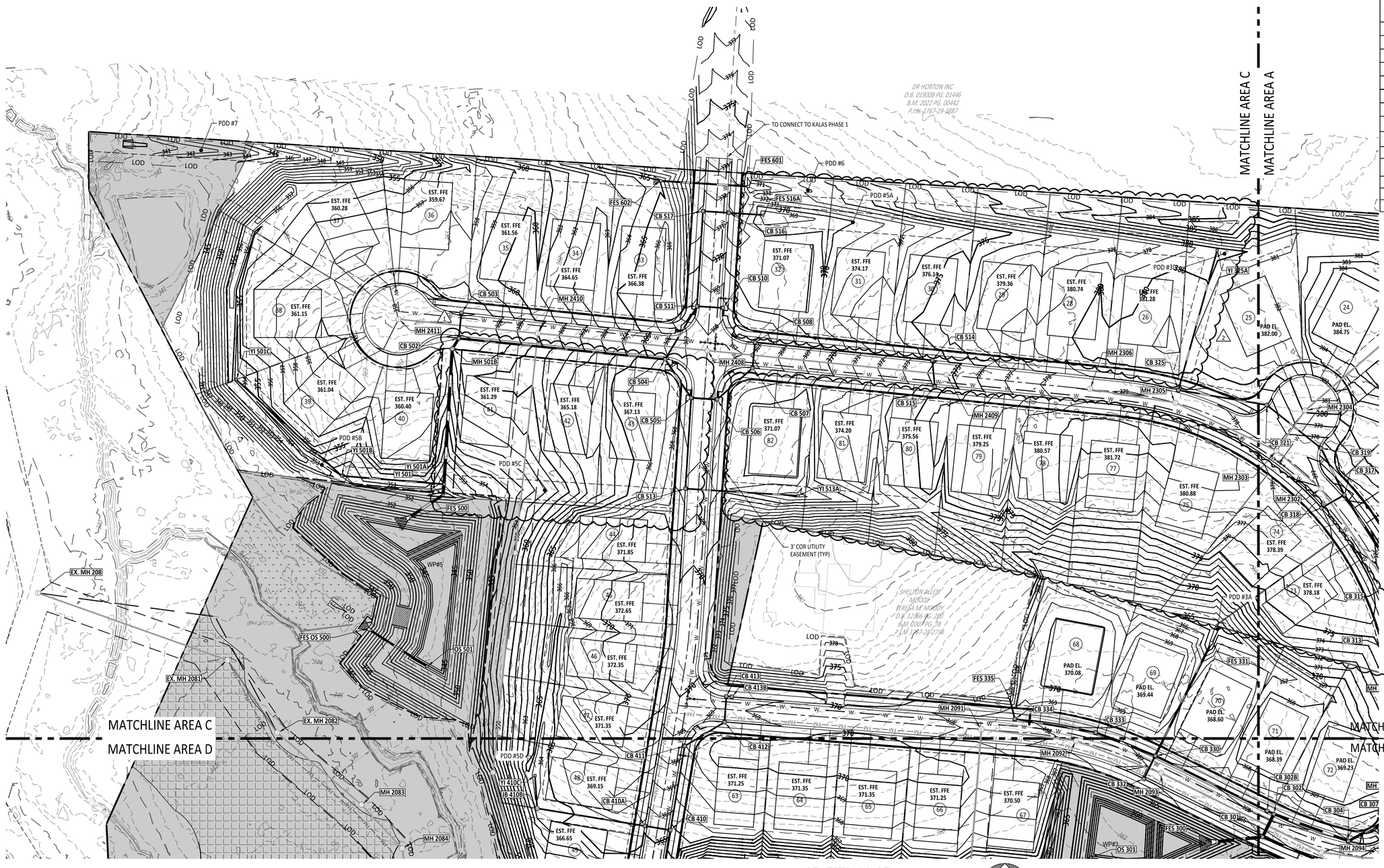
SHEET TITLE:

DRAINAGE PLAN A

SHEET NO.:

C5.1

Z:\Jobs\21-002 Moody Development Tract (RZ100003)\Arwk_Working Dwgs\Construction Set\5-0-5.3 Drainage and Grading Plan.dwg August 14, 2026



GRADING & DRAINAGE NOTES:

1. PDD ABBREVIATES PERMANENT DIVERSION DITCH.
2. THIS GRADING PLAN SUPPORTS THE IMPLEMENTATION OF CRAWL SPACE AND BASEMENT FOUNDATIONS. CONTRACTOR TO DETERMINE THE PREFERRED FOUNDATION TYPE ON A LOT BY LOT BASIS.
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7. DRIVEWAY LONGITUDINAL SLOPES TO BE A MINIMUM OF 2.00% AND A MAXIMUM OF 10.00%.
8. BUILDING AND DRIVEWAYS SHOWN ARE APPROXIMATES TO CONVEY DESIGN INTENT.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50

MRCP-0022-2025

Public
Sewer Collection / Extension System
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City of Raleigh Public Utilities Department Permit # S-5616

Public
Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # W-4212

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

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
XXXX	LOT STREET ADDRESS

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: 2026.08.14 15:52:20 -04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 56528 JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER
2	06/01/2026	RTAP - PHASE 2 LOT WIDENING

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

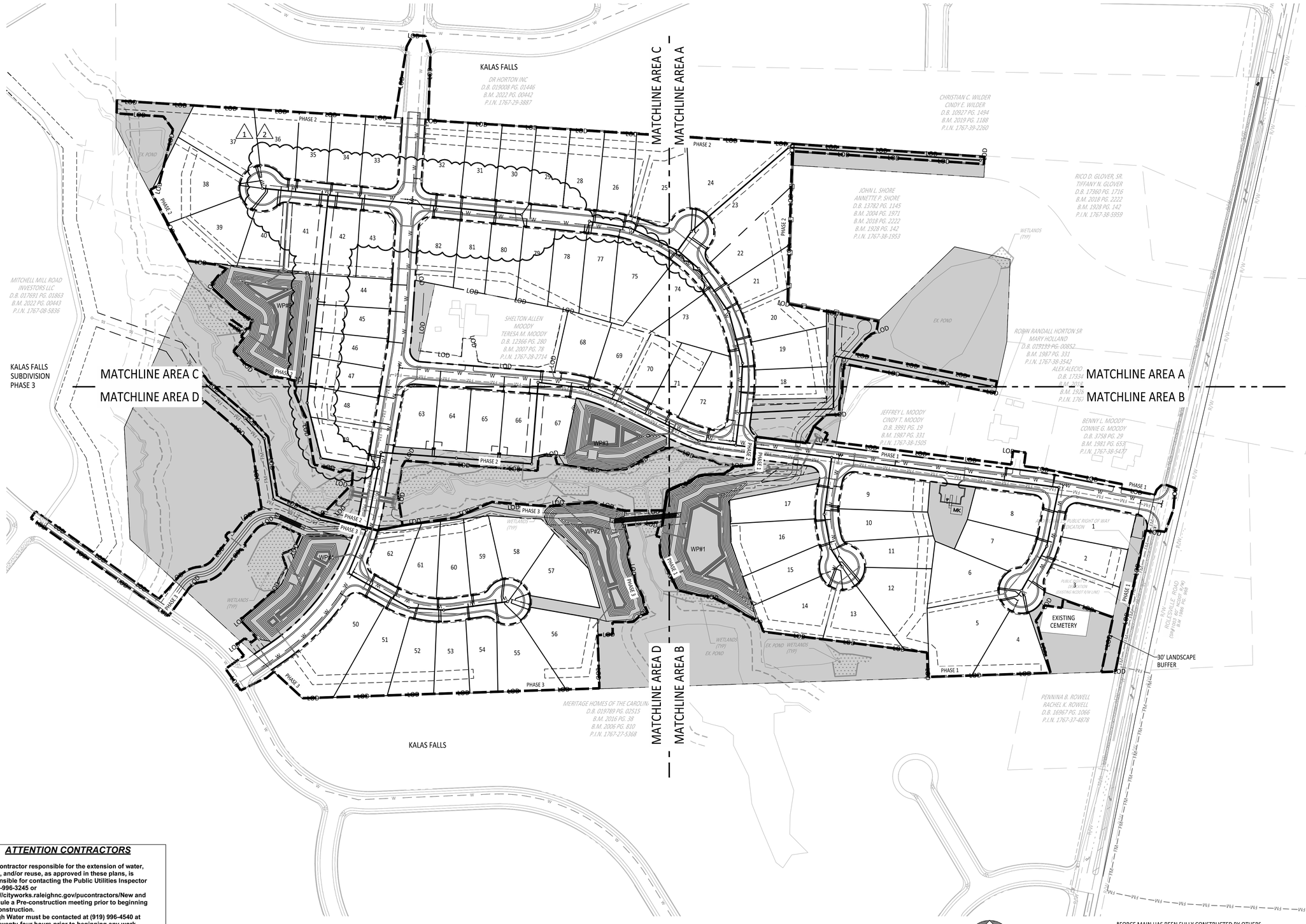
SHEET TITLE:

DRAINAGE PLAN C

SHEET NO.:

C5.3

Z:\Jobs\21-002 Moody Development Tract (R2100031)\Arch_Working Dwgs\Construction Set\C5.0-5.3 Drainage and Grading Plan.dwg August 6, 2026



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

*FORCE MAIN HAS BEEN FULLY CONSTRUCTED BY OTHERS.

RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by this approval must proceed in accordance with the plans. This electronic approval supersedes all previously issued. Any modifications to this approved plan or issued will invalidate this approval.
Timothy Beasley
2026.08.18 09:35:51-04'00'

MRCP-0022-2025

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 # S-5616

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 # W-4212

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

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.
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.

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: 2026.08.14 09:36:04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER
2	07/01/2026	RTAP - PHASE 2 LOT WIDENING

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
OVERALL UTILITIES PLAN

SHEET NO.:
C6.0

August 5, 2026
Z:\Jobs\21-002 Moody Development Tract (R21000)\Revit_Working Dwgs\Construction Set\G-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

20' DRAINAGE EASEMENT

20' DRAINAGE EASEMENT

20' DRAINAGE EASEMENT

20' DRAINAGE EASEMENT

20' DRAINAGE EASEMENT

20' DRAINAGE EASEMENT

20' DRAINAGE EASEMENT

20' COR UTILITY EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

3' COR UTILITY EASEMENT

30' COR UTILITY EASEMENT

30' COR UTILITY EASEMENT

VARIABLE WIDTH GREENWAY EASEMENT

VARIABLE WIDTH GREENWAY EASEMENT

30' DRAINAGE EASEMENT

GREENWAY EASEMENT

MH 2307

MH 2308

MH 2304
4" BOA
4" G.V.

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

MH 2302

MH 2301

MH 2300

MH 2200

MH 2201

MH 2202

MH 2203

MH 2204

YI 325A

YI 316B

YI 310

CB 325

CB 321

CB 319

CB 315

CB 313

CB 312

CB 311

CB 309

CB 308

CB 307

CB 306

CB 304

CB 302

CB 301

CB 330

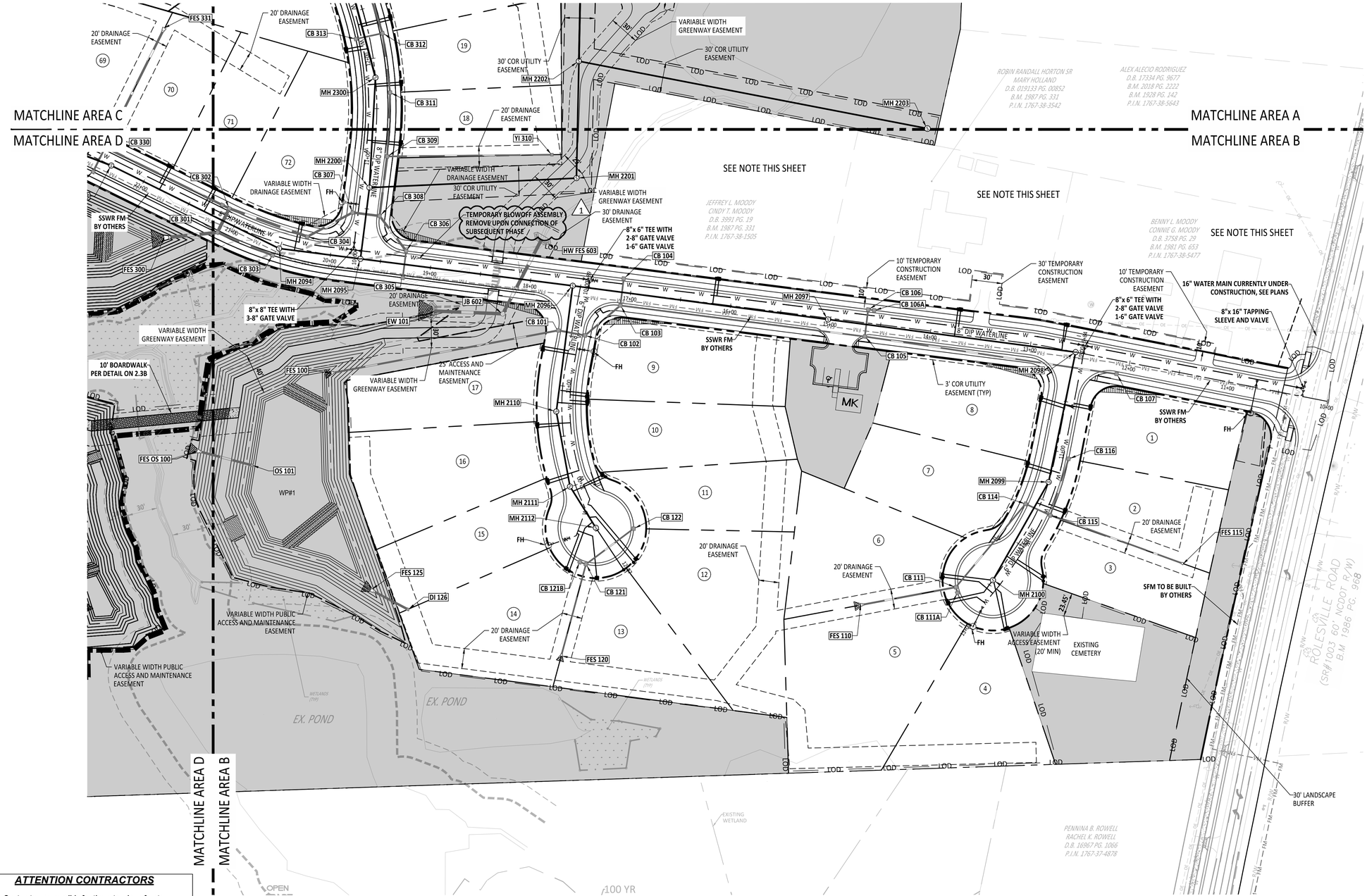
FES 331

HW FES 603

8" DIP WATERLINE

8" DIP WATERLINE

8" DIP WATERLINE



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.

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.

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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MRCP-0022-2025

Public
Sewer Collection / Extension System
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City of Raleigh Public Utilities Department Permit # S-5616

Public
Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # W-4212

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

RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by this approval must proceed in accordance with the plans. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.
Timothy Beasley
2026.08.18 09:36:05-04'00'

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: 2026.08.14 16:04:04 -04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 56528 JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

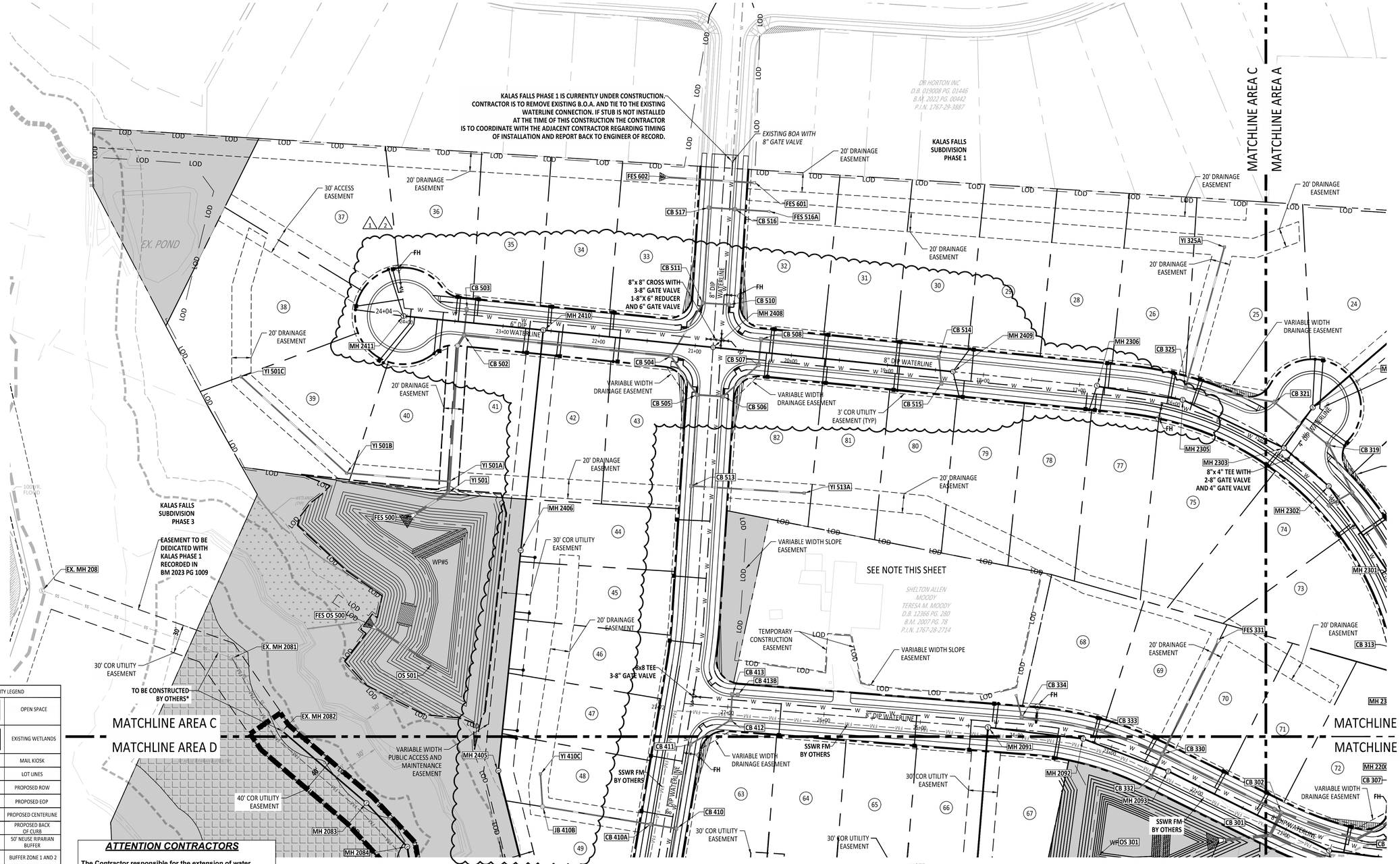
SHEET TITLE:

UTILITY PLAN B

SHEET NO.:

C6.2

August 5, 2026
Z:\Jobs\21-002 Moody Development Tract (9210002)\dwg_Working Dwgs\Construction Set\L6-Utilities Plan.dwg



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

ATTENTION CONTRACTORS

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

NOTE:
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RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by the approved plans must proceed in accordance with the plans. This electronic approval may not be edited once issued. Any modifications to the plans once issued will require new approval.
Timothy Beasley
2026.08.18 09:36:05-04'00'

MRCP-0022-2025

Public
Sewer Collection / Extension System
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City of Raleigh Public Utilities Department Permit # S-5616

Public
Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # W-4212

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

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: 2026.08.14 14:47:20 -04'00'
NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	R1AP - PHASING & SANITARY SEWER
2	07/01/2026	R1AP - PHASE 2 LOT WIDENING

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.

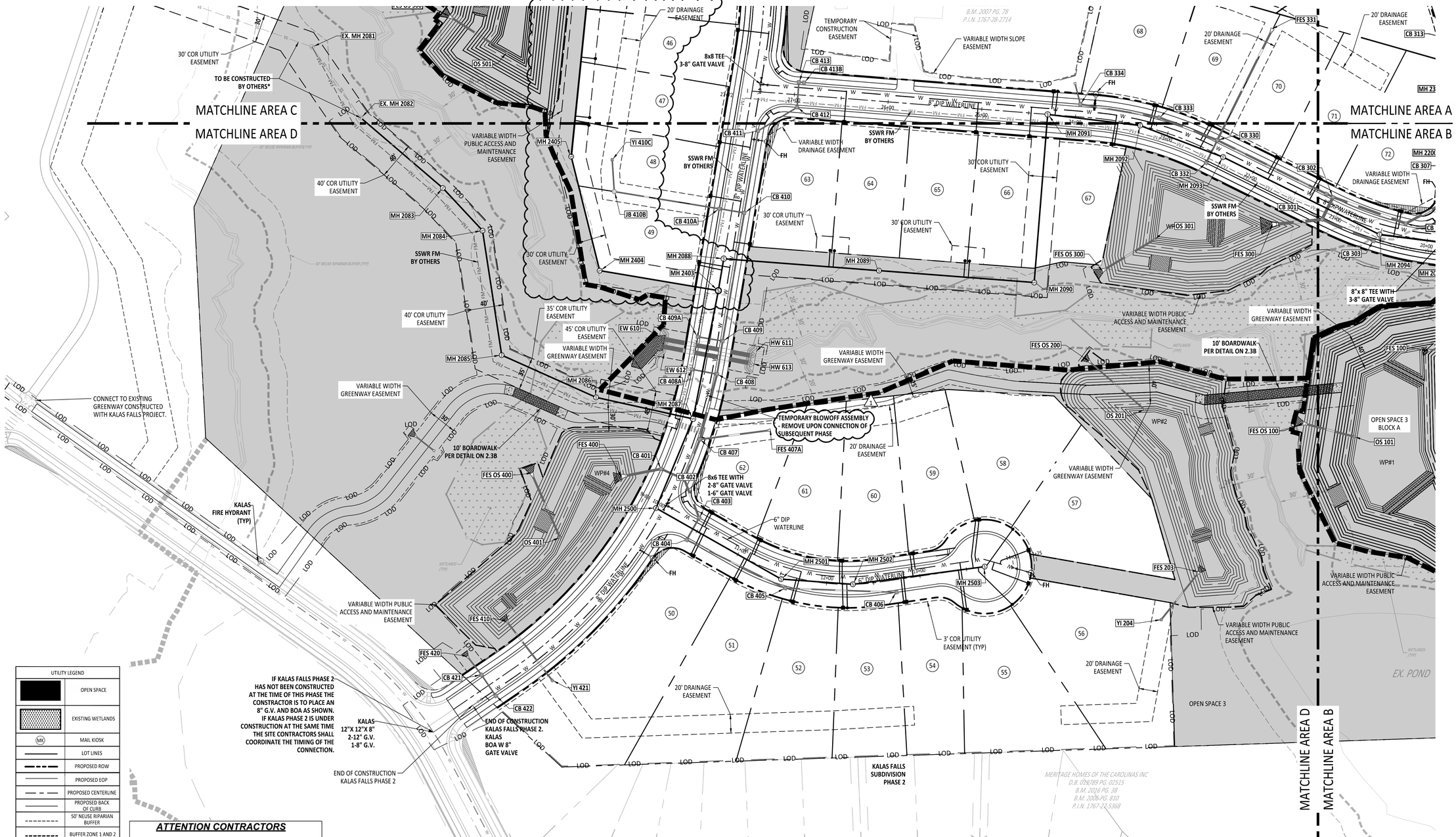
THE PRESERVE AT MOODY FARM
CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
UTILITY PLAN C

SHEET NO.:
C6.3

Z:\Jobs\21-002 Moody Development Tract (8210003)\Dwg_Working Dwg\Construction Set\6.0-Utilities Plan.dwg August 5, 2026



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
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	PROPOSED SCM
	PROPOSED WATERLINE
	PROPOSED SEWERLINE
	PROPOSED MANHOLE
	PROPOSED MANHOLE
	PROPOSED WATER METER
	PROPOSED SEWER SERVICE

ATTENTION CONTRACTORS

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

MRCP-0022-2025

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 # S-5616

Public
Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # W-4212

811 North Carolina
*** 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: 2026.08.14 09:36:00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by this approval must proceed in accordance with the plans. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.
Timothy Beasley
2026.08.18 09:36:06-04'00'

JOB NUMBER:	21-002
CHECKED BY:	JK
DRAWN BY:	RC
DATE:	08/13/2025

SHEET TITLE:
UTILITY PLAN D

SHEET NO.:
C6.4

August 5, 2026
Z:\Jobs\21-002 Moody Development Tract (R410003)\Dwg_Working Dwgs\Construction Set\GA-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	2.20	B	12	2	7	3	9	6
FES 125	24	4.48	B	12	3	11	4	12	8
FES OS 100	24	0.18	B	12	3	11	4	12	8
FES 110	18	4.48	B	12	2	7	3	9	5
FES 120	15	2.61	B	12	2	7	2.5	7.5	5
EW 101	36	4.21	I	18	13	30	6	18	12
FES OS 200	18	0.10	B	12	2	7	3	9	6
FES 203	18	2.05	B	12	2	7	3	9	6
FES 300	36	4.67	I	18	10	23	6	18	12
FES OS 300	24	5.98	I	18	4	16	5	15	10
FES 400	30	2.89	B	12	5	11	4	12	8
FES OS 400	24	3.57	B	12	3	11	4	12	8
FES 410	18	3.53	B	12	2	7	3	9	6
FES 420	15	2.45	B	12	2	7	2.5	7.5	5
FES 500	30	4.92	B	12	5	16	5	15	10
FES OS 500	24	0.32	B	12	3	11	4	12	8
FES 602	18	5.01	B	12	3	10	3	9	6
EW 610	54 (DBL)	5.17	I	18	40	75	16	16	40
FES 701	15	2.55	B	12	2	7	2.5	7.5	5
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 STAGE 1 DIVERSION DITCH CALCULATIONS (3:1 SIDE SLOPES)

TDD #	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)	WIDTH (FT)	DEPTH (FT)	V_{10} (FT/S)	CALCULATED τ (LBS/FT^2)	RECOMMENDED LINER	LINER ALLOWABLE τ (LBS/FT^2)
1A1	1.07	1.10	9.00	1.50	2.29	1.03	Geocoir/Dekowe; Straw; RS-2	1.25
1A2	4.91	3.20	9.00	1.50	5.04	2.99	Geocoir/Dekowe; 400	3.10
2	0.81	5.90	9.00	1.50	3.96	5.52	Profile/Enkamat; 7010, seed and hyrdomulch	6.00
3A1	1.68	4.60	9.00	1.50	4.40	4.31	Geocoir/Dekowe; 700	4.46
3A2	2.58	2.90	9.00	1.50	4.10	2.71	Geocoir/Dekowe; 400	3.10
4B	1.41	0.50	9.00	1.50	1.84	0.47	Geocoir/Dekowe; Straw; RS-1	0.83
5B	4.88	1.00	12.00	2.00	3.29	1.25	E. Coast Ero. Blank.; Straw/Coir, 2 Jute nets	1.35
5C	1.51	7.30	9.00	1.50	5.09	6.83	Profile/Enkamat; 7018, seed and hyrdomulch	7.00
6	1.63	3.16	9.00	1.50	3.78	2.96	Geocoir/Dekowe; 400	3.10
7	1.83	5.00	9.00	1.50	5.50	4.68	Profile/Enkamat; 7010, seed and hyrdomulch	6.00
8	1.14	0.75	9.00	1.50	2.42	0.70	Geocoir/Dekowe; Straw; RS-1	0.83
9	1.22	0.50	9.00	1.50	1.77	0.47	Geocoir/Dekowe; Straw; RS-1	0.83
10	1.16	3.00	6.00	1.00	3.43	1.87	Geocoir/Dekowe; Coconut, RSC-4	2.00
11	1.22	2.10	6.00	1.00	3.01	1.31	E. Coast Ero. Blank.; Straw/Coir, 2 Jute nets	1.35

NOTE: ALL TEMPORARY DIVERSION DITCHES (TDD) CROSS SECTIONS ARE TRIANGULAR.
TRACTIVE FORCE, τ, IS CALCULATED USING: $\tau = (\gamma)(D_{CHAN})(S_{CHAN})$
WHERE:

- γ 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)

10-YEAR PERMANENT DIVERSION DITCH CALCULATIONS (3:1 SIDE SLOPES)

PDD #	DRAINAGE AREA (AC)	AVERAGE SLOPE (%)	WIDTH (FT)	DEPTH (FT)	V_{10} (FT/S)	CALCULATED τ (LBS/FT^2)	RECOMMENDED LINER	LINER ALLOWABLE τ (LBS/FT^2)
1A	4.20	1.30	12	2	3.52	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	0.59	3.00	9	1.5	3.10	2.81	AM. EXCELSIOR CO; CURLEX HV; 2 NETS	3.00
3A	2.48	1.84	9	1.5	3.45	1.72	AM. EXCELSIOR CO; CURLEX II.98; 2 NETS	2.00
3B	1.00	3.43	9	1.5	3.71	3.21	PROFILE/ENKAMAT; 7003	5.00
3C	0.59	1.64	9	1.5	2.61	1.54	AM. EXCELSIOR CO; CURLEX II.98; 2 NETS	2.00
3D	0.76	1.00	9	1.5	2.16	0.94	SEED & MULCH	1.50
4A	1.61	2.73	9	1.5	3.80	2.56	AM. EXCELSIOR CO; CURLEX HV; 2 NETS	3.00
4B	0.74	1.11	9	1.5	2.22	1.04	SEED & MULCH	1.50
5A	1.23	3.16	9	1.5	3.69	3.61	AM. EXCELSIOR CO; CURLEX HV; 2 NETS	3.00
5B	0.64	1.46	9	1.5	2.38	1.37	SEED & MULCH	1.50
5C	0.85	3.85	9	1.5	3.73	3.60	PROFILE/ENKAMAT; 7003	5.00
5D	0.58	0.70	9	1.5	1.74	0.66	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	2.84	5.00	9	1.5	5.89	4.68	PROFILE/ENKAMAT; 7003	5.00

NOTE: ALL PERMANENT DIVERSION DITCHES (PDD) CROSS SECTIONS ARE TRIANGULAR.
TRACTIVE FORCE, τ, IS CALCULATED USING: $\tau = (\gamma)(D_{CHAN})(S_{CHAN})$
WHERE:

- γ 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 DIVERSION DITCH NOMENCLATURE ON GRADING ENLARGEMENT SHEETS WITHIN THIS PLANSET.

SSWR - STRUCTURE TABLE

STRUCTURE NAME:	DESCRIPTION	PIPES IN:	PIPES OUT
EX. MH 208	SSWR MH 4' RIM = 342.80 INV IN = 334.53	8" SDR 35 INV.=334.53	
EX. MH 2081	SSWR MH 4' RIM = 346.57 INV IN = 335.99 INV OUT = 335.79	8" SDR 35 INV.=335.99	8" SDR 35 INV.=335.79
EX. MH 2082	SSWR MH 4' RIM = 347.52 INV IN = 338.24 INV OUT = 338.04	8" SDR 35 INV.=338.24	8" SDR 35 INV.=338.04
MH 2083	SSWR MH 4' RIM = 347.50 INV IN = 340.17 INV OUT = 339.97	8" SDR 35 INV.=340.17	8" SDR 35 INV.=339.97
MH 2084	SSWR MH 4' RIM = 348.65 INV IN = 341.01 INV OUT = 340.81	8" SDR 35 INV.=341.01	8" SDR 35 INV.=340.81
MH 2085	SSWR MH 4' RIM = 352.24 INV IN = 341.94 INV OUT = 341.74	8" SDR 35 INV.=341.94	8" SDR 35 INV.=341.74
MH 2086	SSWR MH 4' RIM = 354.57 INV IN = 342.75 INV OUT = 342.55	8" SDR 26 INV.=342.75	8" SDR 35 INV.=342.55
MH 2087	SSWR MH 5' RIM = 362.30 INV IN = 345.06 INV IN = 343.50 INV OUT = 343.30	8" SDR 26 INV.=345.06 8" SDR 26 INV.=343.50	8" SDR 26 INV.=343.30
MH 2088	SSWR MH 5' RIM = 363.68 INV IN = 346.63 INV OUT = 346.43	8" SDR 26 INV.=346.63	8" SDR 26 INV.=346.43
MH 2089	SSWR MH 4' RIM = 357.54 INV IN = 349.32 INV OUT = 349.12	8" SDR 35 INV.=349.32	8" SDR 26 INV.=349.12
MH 2090	SSWR MH 4' RIM = 357.70 INV IN = 351.18 INV OUT = 350.98	8" SDR 35 INV.=351.18	8" SDR 35 INV.=350.98
MH 2091	SSWR MH 5' RIM = 368.52 INV IN = 356.32 INV OUT = 356.02	8" SDR 26 INV.=356.32	8" SDR 35 INV.=356.02
MH 2092	SSWR MH 4' RIM = 367.80 INV IN = 357.02 INV OUT = 356.82	8" SDR 35 INV.=357.02	8" SDR 26 INV.=356.82
MH 2093	SSWR MH 4' RIM = 366.85 INV IN = 357.69 INV OUT = 357.49	8" SDR 35 INV.=357.69	8" SDR 35 INV.=357.49
MH 2094	SSWR MH 4' RIM = 366.59 INV IN = 358.90 INV OUT = 358.70	8" SDR 35 INV.=358.90	8" SDR 35 INV.=358.70
MH 2095	SSWR MH 4' RIM = 367.73 INV IN = 359.71 INV IN = 359.51 INV OUT = 359.31	8" SDR 35 INV.=359.71 8" SDR 35 INV.=359.51	8" SDR 35 INV.=359.31
MH 2096	SSWR MH 4' RIM = 373.78 INV IN = 363.42 INV IN = 364.03 INV OUT = 362.33	8" SDR 35 INV.=363.42 8" SDR 35 INV.=364.03	8" SDR 35 INV.=362.33
MH 2097	SSWR MH 4' RIM = 381.39 INV IN = 372.29 INV OUT = 372.09	8" SDR 35 INV.=372.29	8" SDR 35 INV.=372.09
MH 2098	SSWR MH 4' RIM = 388.87 INV IN = 377.92 INV OUT = 377.67	8" SDR 35 INV.=377.92	8" SDR 35 INV.=377.67
MH 2099	SSWR MH 4' RIM = 387.14 INV IN = 378.78 INV OUT = 378.58	8" SDR 35 INV.=378.78	8" SDR 35 INV.=378.58
MH 2100	SSWR MH 4' RIM = 386.29 INV OUT = 379.34		8" SDR 35 INV.=379.34
MH 2110	SSWR MH 4' RIM = 375.00 INV IN = 366.12 INV OUT = 365.92	8" SDR 35 INV.=366.12	8" SDR 35 INV.=365.92
MH 2111	SSWR MH 4' RIM = 374.79 INV IN = 367.08 INV OUT = 366.88	8" SDR 35 INV.=367.08	8" SDR 35 INV.=366.88
MH 2112	SSWR MH 4' RIM = 374.00 INV OUT = 367.56		8" SDR 35 INV.=367.56
MH 2200	SSWR MH 4' RIM = 368.37 INV IN = 361.77 INV IN = 360.27 INV OUT = 360.07	8" SDR 35 INV.=361.77 8" SDR 35 INV.=360.27	8" SDR 35 INV.=360.07

SSWR - STRUCTURE TABLE

STRUCTURE NAME:	DESCRIPTION	PIPES IN:	PIPES OUT
MH 2201	SSWR MH 4' RIM = 372.52 INV IN = 364.50 INV OUT = 362.80	8" SDR 35 INV.=364.50	8" SDR 35 INV.=362.80
MH 2202	SSWR MH 4' RIM = 377.50 INV IN = 365.86 INV IN = 366.45 INV OUT = 365.66	8" SDR 26 INV.=365.86 8" SDR 35 INV.=366.45	8" SDR 35 INV.=365.66
MH 2203	SSWR MH 5' RIM = 387.82 INV OUT = 369.38		8" SDR 26 INV.=369.38
MH 2204	SSWR MH 4' RIM = 379.49 INV OUT = 366.88		8" SDR 35 INV.=366.88
MH 2300	SSWR MH 4' RIM = 373.31 INV IN = 366.20 INV OUT = 366.00	8" SDR 35 INV.=366.20	8" SDR 35 INV.=366.00
MH 2301	SSWR MH 4' RIM = 375.81 INV IN = 368.57 INV OUT = 368.37	8" SDR 35 INV.=368.57	8" SDR 35 INV.=368.37
MH 2302	SSWR MH 4' RIM = 376.97 INV IN = 369.64 INV OUT = 369.44	8" SDR 35 INV.=369.64	8" SDR 35 INV.=369.44
MH 2303	SSWR MH 4' RIM = 377.58 INV IN = 370.14 INV IN = 370.50 INV OUT = 369.94	8" SDR 35 INV.=370.14 8" SDR 35 INV.=370.50	8" SDR 35 INV.=369.94
MH 2304	SSWR MH 4' RIM = 380.19 INV IN = 372.33 INV OUT = 371.27	8" SDR 26 INV.=372.33	8" SDR 35 INV.=371.27
MH 2305	SSWR MH 4' RIM = 378.75 INV IN = 370.92 INV OUT = 370.73	8" SDR 35 INV.=370.92	8" SDR 35 INV.=370.73
MH 2306	SSWR MH 4' RIM = 378.82 INV OUT = 371.38		8" SDR 35 INV.=371.38
MH 2307	SSWR MH 5' RIM = 392.73 INV IN = 377.89 INV OUT = 377.69	8" SDR 26 INV.=377.89	8" SDR 26 INV.=377.69
MH 2308	SSWR MH 4' RIM = 385.18 INV OUT = 380.00		8" SDR 26 INV.=380.00
MH 2403	SSWR MH 5' RIM = 362.93 INV IN = 345.91 INV IN = 345.10 INV OUT = 344.89	8" SDR 26 INV.=345.91 8" SDR 26 INV.=345.10	8" SDR 26 INV.=344.89
MH 2404	SSWR MH 4' RIM = 354.45 INV IN = 345.94 INV OUT = 345.74	8" SDR 35 INV.=345.94	8" SDR 26 INV.=345.74
MH 2405	SSWR MH 4' RIM = 356.83 INV IN = 346.77 INV OUT = 346.57	8" SDR 35 INV.=346.77	8" SDR 35 INV.=346.57
MH 2406	SSWR MH 4' RIM = 360.38 INV IN = 348.12 INV OUT = 347.92	8" SDR 35 INV.=348.12	8" SDR 35 INV.=347.92
MH 2408	SSWR MH 4' RIM = 367.77 INV IN = 358.52 INV OUT = 358.32	8" SDR 35 INV.=358.52	8" SDR 35 INV.=358.32
MH 2409	SSWR MH 4' RIM = 374.76 INV OUT = 368.00		8" SDR 35 INV.=368.00
MH 2410	SSWR MH 4' RIM = 359.99 INV IN = 349.47 INV IN = 351.69 INV OUT = 349.27	8" SDR 35 INV.=349.47 8" SDR 35 INV.=351.69	8" SDR 35 INV.=349.27
MH 2411	SSWR MH 4' RIM = 358.00 INV OUT = 350.20		8" SDR 35 INV.=350.20
MH 2500	SSWR MH 4' RIM = 363.57 INV IN = 352.85 INV OUT = 350.80	8" SDR 35 INV.=352.85	8" SDR 26 INV.=350.80
MH 2501	SSWR MH 4' RIM = 367.90 INV IN = 359.70 INV OUT = 359.50	8" SDR 35 INV.=359.70	8" SDR 35 INV.=359.50
MH 2502	SSWR MH 4' RIM = 370.88 INV IN = 361.52 INV OUT = 361.32	8" SDR 35 INV.=361.52	8" SDR 35 INV.=361.32
MH 2503	SSWR MH 4' RIM = 373.79 INV OUT = 364.20		8" SDR 35 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 # _____

North Carolina 811
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North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
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American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
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919-469-1101

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

Digitally signed by Jakob Klein
Date: 2026.08.14 09:49:00 -04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER
2	07/01/2026	RTAP - PHASE 2 LOT WIDENING

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
SCHEDULE

SHEET NO.:
C7.0

August 5, 2026

Z:\Job\21-002 Moody Development Tract (R2100019)\dwg_Working Dwgs\Construction Set\7.0 Schedule.dwg

SCM 1 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
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%	378.60	378.63
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%	381.26	381.29
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%	369.84	370.31
CB 121B	CB 121	15"	6.49	1.00%	370.61	370.67
* 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)
* 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 302B	CB 302	24"	7.75	0.50%	361.64	361.68
* CB 303	CB 301	24"	59.39	0.50%	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%	362.25	362.50
* CB 308	CB 307	24"	27.00	0.50%	362.70	362.84
CB 309	CB 308	24"	59.52	2.74%	363.34	364.97
CB 311	CB 309	18"	63.41	2.96%	365.17	367.05
CB 312	CB 311	18"	59.35	2.66%	367.25	368.83
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 317	CB 315	18"	104.51	1.00%	370.66	371.71
CB 318	CB 317	15"	27.57	0.50%	372.86	373.00
CB 319	CB 317	18"	54.16	1.00%	371.91	372.45
CB 321	CB 319	15"	72.18	0.76%	373.45	374.00
CB 325	CB 321	15"	92.96	0.58%	374.52	375.06
* CB 330	CB 302B	24"	129.47	0.50%	361.78	362.43
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 331	CB 330	24"	132.30	0.50%	363.12	363.78
FES 335	CB 334	15"	23.82	5.21%	364.16	365.40
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	0.36%	375.38	375.91

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

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

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 601	FES 602	18"	93.42	5.50%	364.86	370.00
FES 700	FES 701	15"	26.59	3.76%	350.75	351.75

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)
CB 401	FES 400	30"	42.89	0.50%	356.86	357.07
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
CB 413B	CB 413	15"	5.61	1.00%	365.29	365.35
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%	361.46	361.63
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	MH 501B	30"	12.72	1.00%	350.73	350.86
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
MH 501B	YI 501A	30"	140.88	2.79%	346.60	350.53
YI 501	FES 500	30"	45.55	0.36%	345.60	345.76
YI 501A	YI 501	30"	11.31	1.77%	346.20	346.40
YI 501B	YI 501A	15"	106.74	1.08%	347.20	348.35
YI 501C	YI 501B	15"	148.23	0.50%	348.45	349.19
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

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

SCM 1 - Structure Table

Structure Name	Details
CB 101	RIM = 373.82 INV IN = 368.14 INV OUT = 368.04
CB 102	RIM = 373.87 INV IN = 368.48 INV OUT = 368.28
CB 103	RIM = 375.04 INV IN = 370.18 INV IN = 370.18 INV OUT = 369.98
CB 104	RIM = 375.04 INV OUT = 370.32
CB 105	RIM = 382.57 INV IN = 377.41 INV IN = 378.23 INV OUT = 377.31
CB 106	RIM = 382.57 INV IN = 378.60 INV OUT = 378.40
CB 106A	RIM = 382.92 INV OUT = 378.63
CB 107	RIM = 390.04 INV OUT = 384.92
CB 111	RIM = 385.25 INV IN = 381.26 INV IN = 381.26 INV OUT = 381.06
CB 111A	RIM = 385.25 INV OUT = 381.29
CB 114	RIM = 387.03 INV IN = 382.54 INV OUT = 382.34
CB 115	RIM = 387.04 INV IN = 382.88 INV IN = 382.78 INV OUT = 382.67
CB 116	RIM = 387.89 INV OUT = 383.18
CB 121	RIM = 374.00 INV IN = 370.61 INV IN = 370.61 INV OUT = 370.31
CB 121B	RIM = 374.00 INV OUT = 370.67
CB 122	RIM = 374.05 INV OUT = 370.90
DI 126	RIM = 366.55 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 = 369.84
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 INV OUT = 359.75

SCM 2 - Structure Table

Structure Name	Details
FES 203	INV IN = 361.50
YI 204	RIM = 366.26 INV OUT = 362.25

SCM 2 Outfall - Structure Table

Structure Name	Details
FES OS 200	INV IN = 357.00
OS 201	RIM = 359.46 INV OUT = 357.75

SCM 3 - Structure Table

Structure Name	Details
CB 301	RIM = 366.14 INV IN = 361.31 INV IN = 362.30 INV OUT = 361.21
CB 302	RIM = 366.04 INV IN = 361.64 INV IN = 361.64 INV OUT = 361.44
CB 302B	RIM = 366.04 INV IN = 361.78 INV OUT = 361.68
CB 303	RIM = 366.75 INV OUT = 362.60
CB 304	RIM = 366.98 INV IN = 362.25 INV OUT = 362.05
CB 305	RIM = 368.93 INV OUT = 364.89
CB 306	RIM = 368.91 INV IN = 364.58 INV OUT = 363.46
CB 307	RIM = 367.04 INV IN = 362.70 INV OUT = 362.50
CB 308	RIM = 367.26 INV IN = 363.34 INV IN = 363.24 INV OUT = 362.84
CB 309	RIM = 370.01 INV IN = 365.17 INV IN = 365.80 INV OUT = 364.97
CB 311	RIM = 373.03 INV IN = 367.25 INV OUT = 367.05
CB 312	RIM = 374.74 INV IN = 369.03 INV IN = 369.94 INV OUT = 368.83
CB 313	RIM = 374.73 INV OUT = 370.12
CB 315	RIM = 375.97 INV IN = 370.66 INV IN = 371.88 INV OUT = 370.16
CB 317	RIM = 376.94 INV IN = 371.91 INV IN = 372.86 INV OUT = 371.71
CB 318	RIM = 377.00 INV OUT = 373.00
CB 319	RIM = 377.02 INV IN = 373.45 INV OUT = 372.45
CB 321	RIM = 378.02 INV IN = 374.52 INV OUT = 374.00
CB 325	RIM = 378.92 INV IN = 375.38 INV OUT = 375.06
CB 330	RIM = 367.00 INV IN = 363.00 INV IN = 363.12 INV IN = 363.50 INV OUT = 362.43
CB 332	RIM = 367.03 INV OUT = 363.64
CB 333	RIM = 367.90 INV IN = 363.53 INV OUT = 363.33
CB 334	RIM = 368.63 INV IN = 364.16 INV OUT = 363.96
FES 300	INV IN = 360.94
FES 331	INV OUT = 363.78
FES 335	INV OUT = 365.40
YI 310	RIM = 370.35 INV OUT = 367.43
YI 316B	RIM = 376.09 INV OUT = 373.21
YI 325A	RIM = 379.41 INV OUT = 375.91

SCM 3 Outfall - Structure Table

Structure Name	Details
FES OS 300	INV IN = 357.00
OS 301	RIM = 360.00 INV OUT = 357.75

SCM 4 - Structure Table

Structure Name	Details
CB 401	RIM = 363.04 INV IN = 357.26 INV OUT = 357.07
CB 402	RIM = 363.02 INV IN = 357.60 INV IN = 357.60 INV OUT = 357.40
CB 403	RIM = 362.71 INV IN = 358.02 INV OUT = 357.82
CB 404	RIM = 362.73 INV IN = 358.79 INV OUT = 358.29
CB 405	RIM = 368.09 INV IN = 363.30 INV OUT = 362.29
CB 406	RIM = 372.03 INV OUT = 366.85
CB 407	RIM = 362.81 INV IN = 357.93 INV IN = 358.53 INV OUT = 357.83
CB 408	RIM = 362.39 INV IN = 358.68 INV IN = 358.49 INV OUT = 358.29
CB 408A	RIM = 361.81 INV OUT = 358.88
CB 409	RIM = 362.56 INV IN = 358.97 INV IN = 358.87 INV OUT = 358.67
CB 409A	RIM = 362.04 INV OUT = 359.11
CB 410	RIM = 365.52 INV IN = 360.58 INV IN = 360.45 INV OUT = 360.25
CB 410A	RIM = 365.51 INV IN = 360.69 INV OUT = 360.58
CB 411	RIM = 368.85 INV IN = 364.51 INV OUT = 364.31
CB 412	RIM = 369.03 INV IN = 364.95 INV OUT = 364.75
CB 413	RIM = 369.03 INV IN = 365.29 INV OUT = 365.08
CB 413B	RIM = 369.03 INV OUT = 365.35
FES 400	INV IN = 356.86
FES 407A	INV OUT = 358.91
FES 410	INV IN = 356.95
JB 410B	RIM = 366.18 INV IN = 361.46 INV OUT = 361.26
YI 410C	RIM = 363.50 INV OUT = 361.63
YI 421	RIM = 359.68 INV OUT = 357.35

SCM 4 Outfall - Structure Table

Structure Name	Details
FES OS 400	INV IN = 353.37
OS 401	RIM = 356.00 INV OUT = 353.75

SCM 5 - Structure Table

Structure Name	Details
CB 502	RIM = 357.04 INV IN = 351.06 INV IN = 353.30 INV OUT = 350.86
CB 503	RIM = 357.04 INV OUT = 353.44
CB 504	RIM = 366.04 INV IN = 361.37 INV IN = 362.27 INV OUT = 361.17
CB 505	RIM = 367.77 INV IN = 362.35 INV IN = 362.69 INV OUT = 361.85
CB 506	RIM = 367.48 INV IN = 362.69 INV OUT = 362.49
CB 507	RIM = 367.00 INV IN = 363.14 INV OUT = 362.94
CB 508	RIM = 367.00 INV IN = 363.48 INV OUT = 363.28
CB 510	RIM = 368.57 INV OUT = 364.24
CB 511	RIM = 368.61 INV IN = 364.00 INV IN = 363.62 INV OUT = 363.12
CB 513	RIM = 368.66 INV IN = 363.36 INV OUT = 363.16
CB 514	RIM = 374.04 INV IN = 370.15 INV OUT = 369.95
CB 515	RIM = 374.10 INV OUT = 370.43
CB 516	RIM = 371.63 INV IN = 367.70 INV OUT = 367.49
CB 517	RIM = 371.62 INV IN = 367.09 INV OUT = 366.59
FES 500	INV IN = 345.60
FES 516A	INV OUT = 368.29
MH 501B	RIM = 357.95 INV IN = 350.73 INV OUT = 350.53
YI 501	RIM = 350.00 INV IN = 346.20 INV OUT = 345.76
YI 501A	RIM = 351.10 INV IN = 346.60 INV IN = 347.20 INV OUT = 346.40
YI 501B	RIM = 351.82 INV IN = 348.45 INV OUT = 348.35
YI 501C	RIM = 353.32 INV OUT = 349.19
YI 513A	RIM = 367.87 INV OUT = 363.95

Bypass - Structure Table

Structure Name	Details
CB 421	RIM = 360.04 INV IN = 356.41 INV OUT = 356.28
CB 422	RIM = 360.04 INV OUT = 356.55
FES 420	INV IN = 356.16
FES 601	INV OUT = 370.00
FES 602	INV IN = 364.86
FES 700	INV OUT = 351.75
FES 701	INV IN = 350.75

SCM 5 Outfall - Structure Table

Structure Name	Details
FES OS 500	INV IN = 343.02
OS 501	RIM = 346.00 INV OUT = 343.75

Culvert Crossing - West - Structure Table

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

Culvert Crossing - East - Structure Table

Structure Name	Details
EW 101	INV IN = 364.50
HW FES 603	INV OUT = 366.50
JB 602	RIM = 371.46 INV IN = 365.04 INV OUT = 364.84

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: 2026.08.14 [illegible]

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:

SCHEDULE

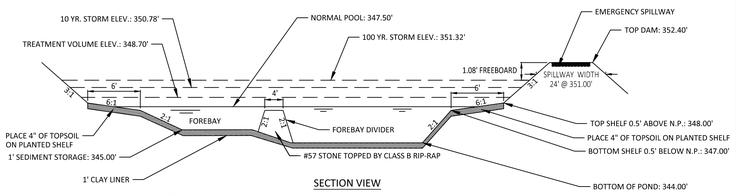
SHEET NO.:

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

August 5, 2026

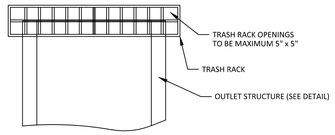
Z:\Job\21-002 Moody Development Tract (RJ100035)\Dwg_Working Dwgs\Construction Set\13 Schedule.dwg



SECTION VIEW

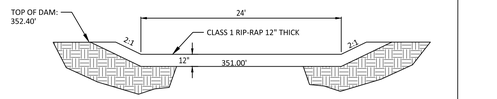
NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

01 RETENTION POND
NTS

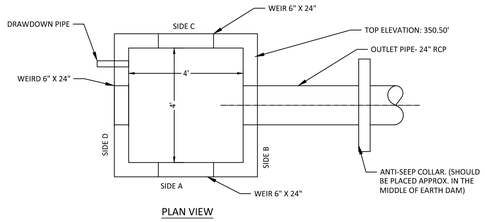


NOTES:
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
2. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
3. TRASH RACK SHALL ACCOMMODATE 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").

02 TRASH RACK
NTS

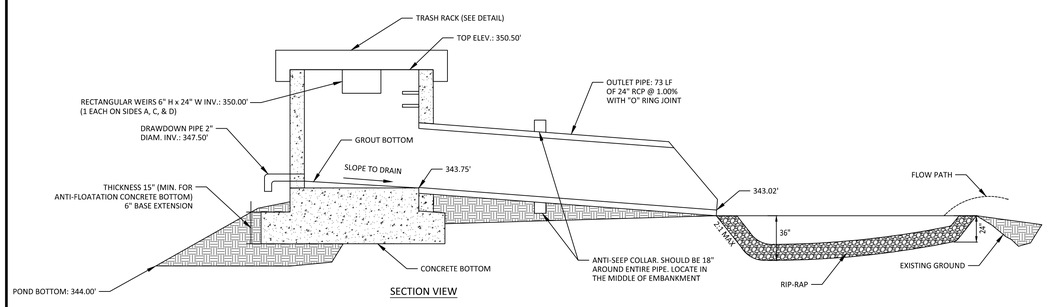


03 EMERGENCY SPILLWAY SECTION
NTS



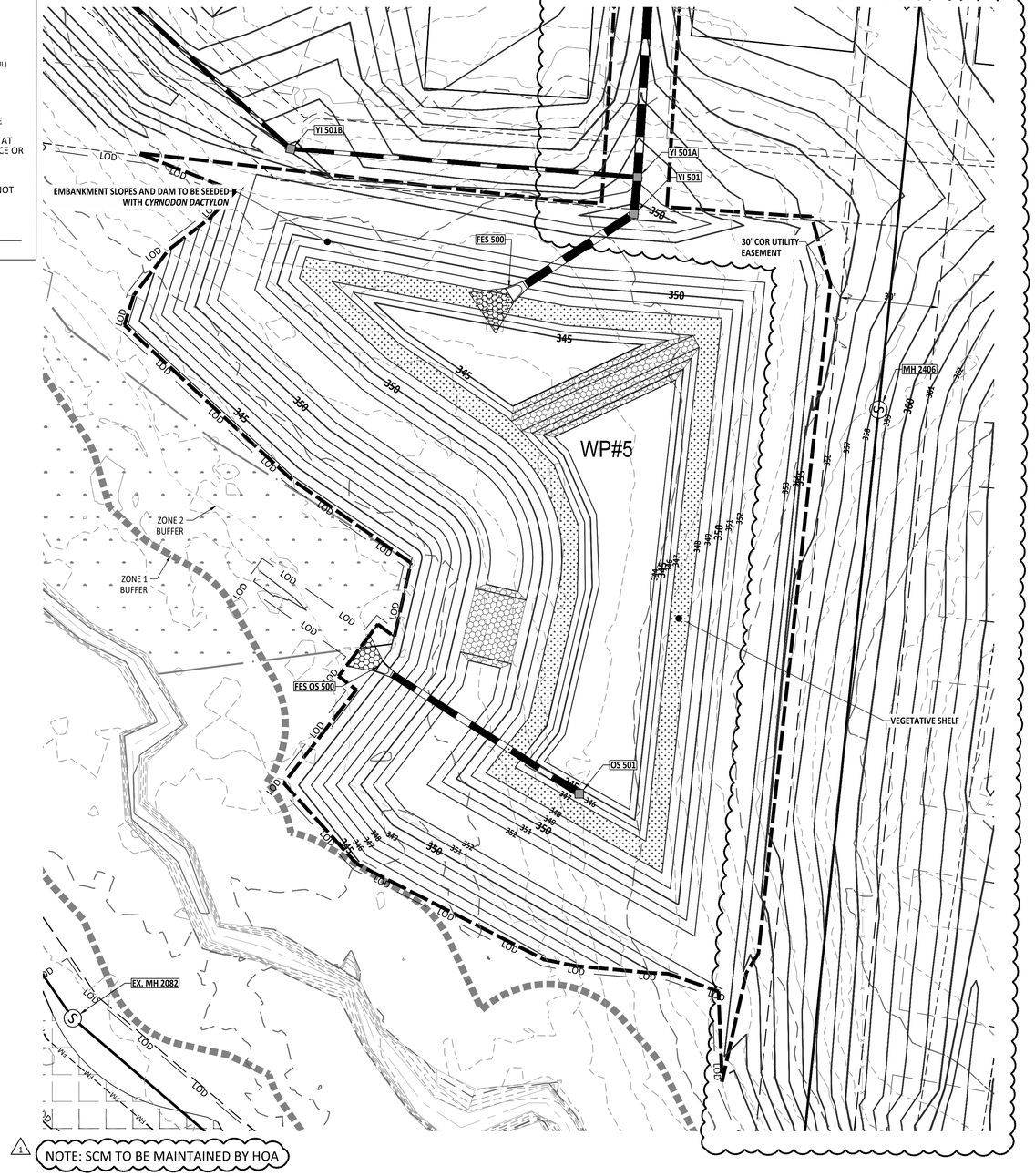
PLAN VIEW

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



1 NOTE: SCM TO BE MAINTAINED BY HOA

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

MRCP-0022-2025

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 # S-5616

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 # W-4212

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: 2026.08.14 09:46:00 -04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	06/09/2026	RTAP - PHASING & SANITARY SEWER

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
SCM 5

SHEET NO.:
C8.4

August 5, 2026
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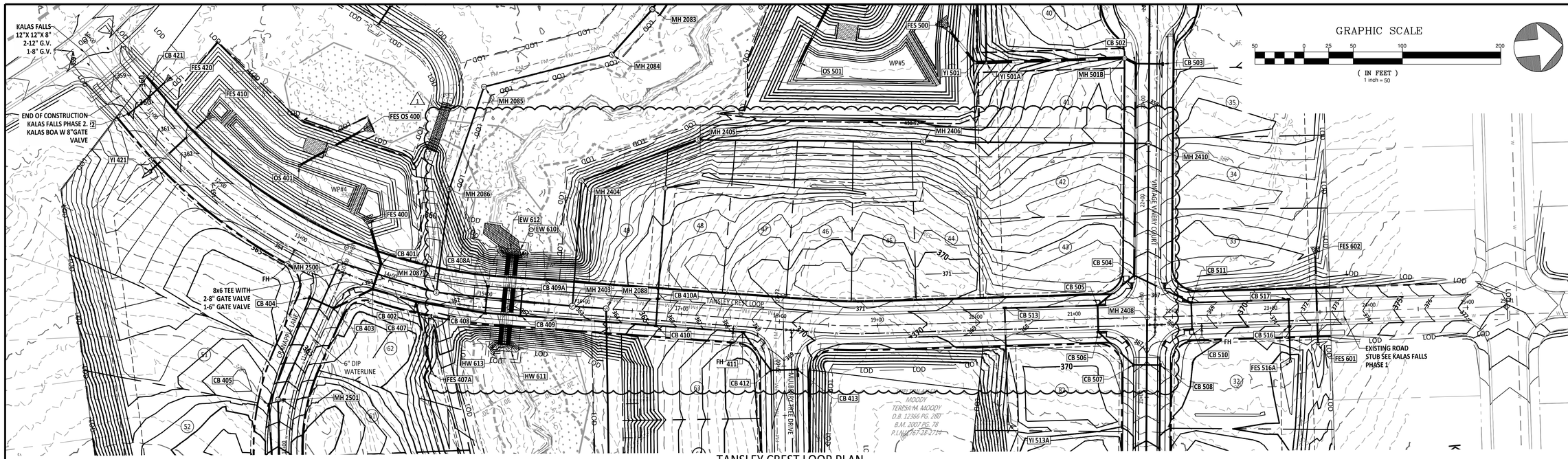
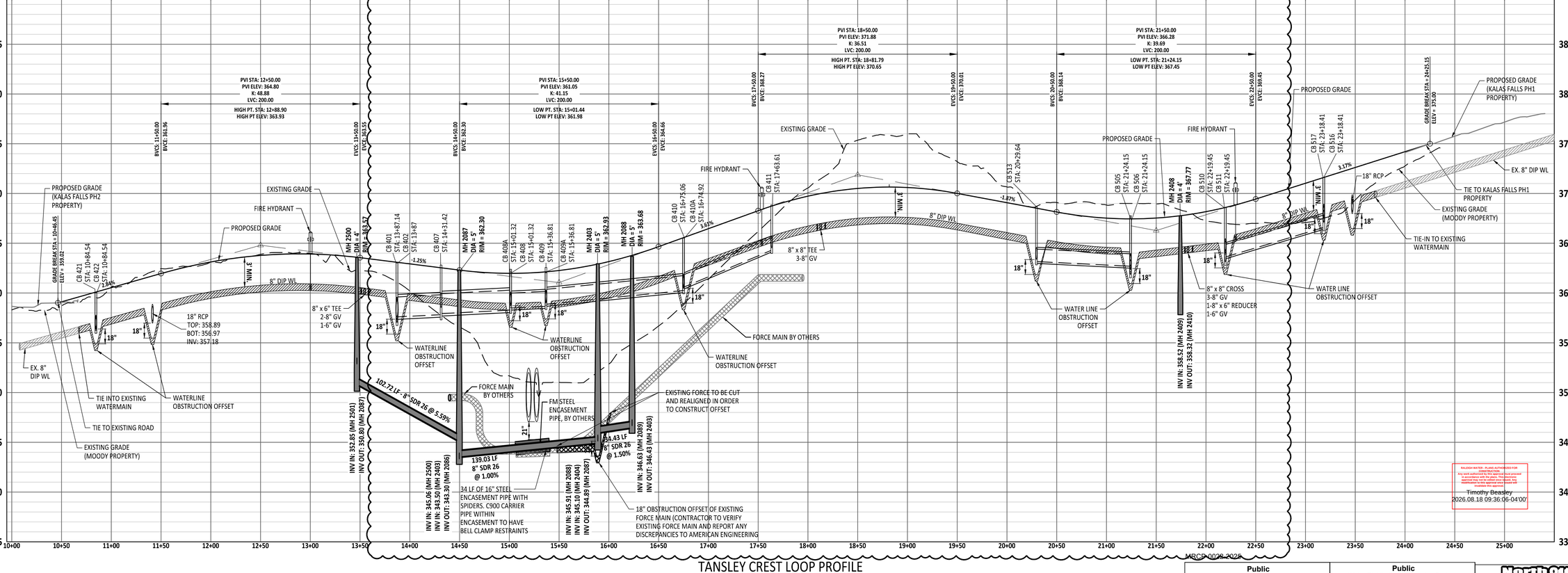


TANSLEY CREST LOOP PLAN



TANSLEY CREST LOOP PROFILE

MRCD-0026-2025

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 # S-5616

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 # W-4212

*** 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: 2026.08.14 09:40:04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

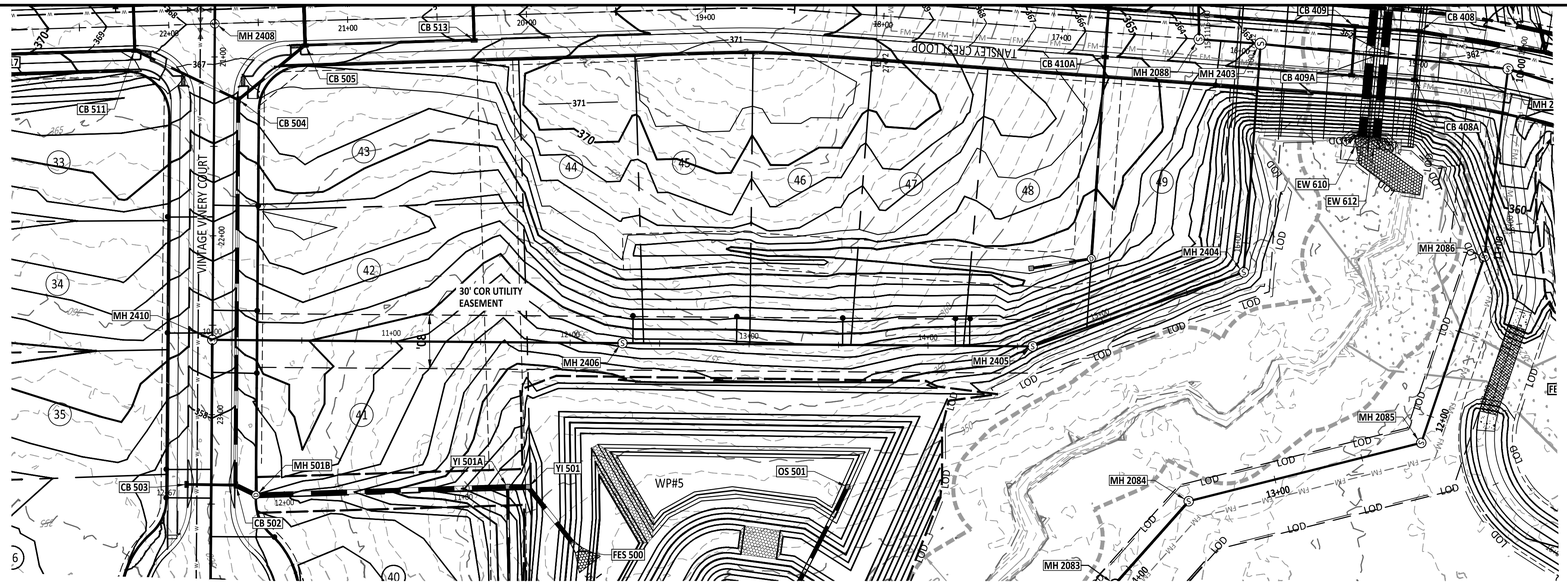
RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by this permit must proceed in accordance with the plans. Any deviations approval may not be added once issued. Any modifications must be approved and issued before this approval.
Timothy Beasley
2026.08.18 09:36:06-04'00'

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
TANSLEY CREST LOOP PLAN & PROFILE

SHEET NO.:
C10.0

Z:\Jobs\21-002 Moody Development Tract\X21000\Shell_Working Dwg\Construction Set\10.0 Tansley Plan and Profiles.dwg August 5, 2026

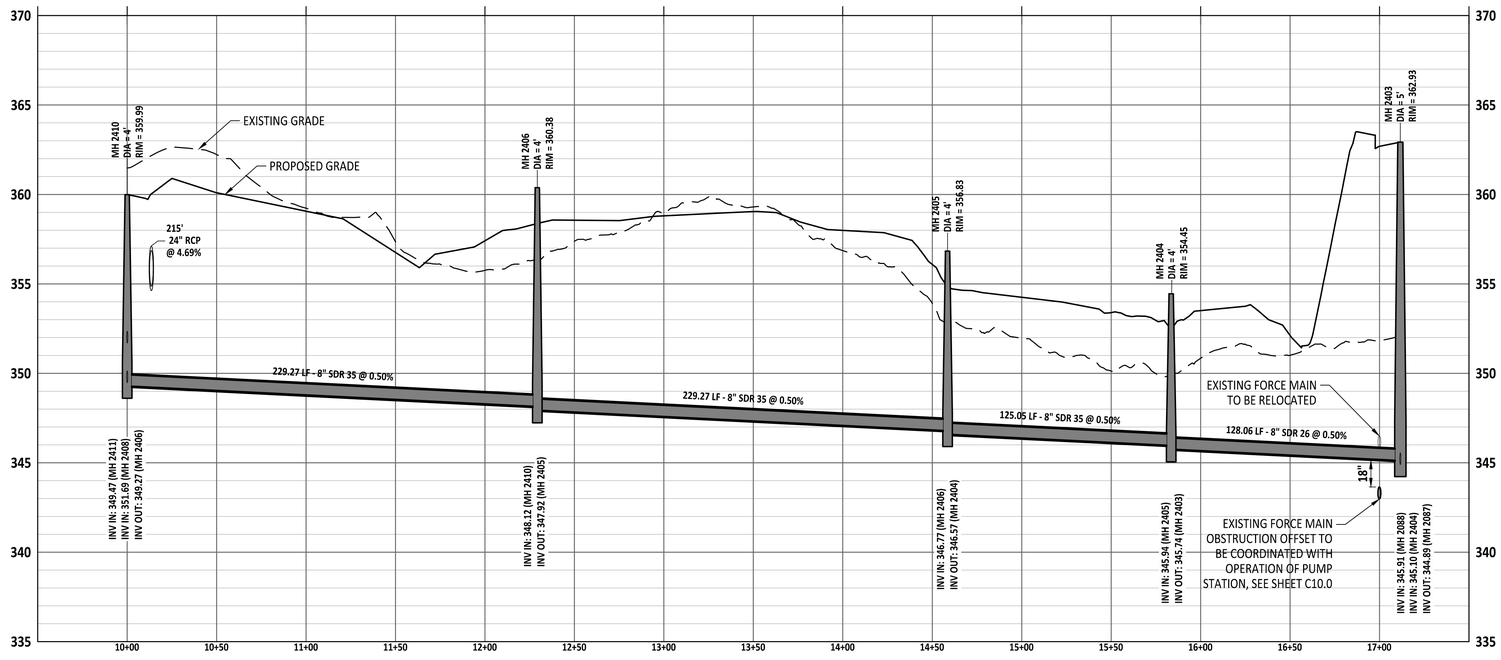


TANSLEY CREST LOOP BACKYARD PLAN

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40



TANSLEY CREST LOOP BACKYARD PROFILE

RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work authorized by this approval must proceed in accordance with the plans. This electronic approval shall be the official approval. Any modification to this approval once issued will invalidate this approval.
Timothy Beasley
2026.08.18 09:36:19-04'00'

MRCP-0022-2025

Public
Sewer Collection / Extension System
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City of Raleigh Public Utilities Department Permit # S-5616

Public
Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # W-4212

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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: 2026.08.14 15:04:04-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

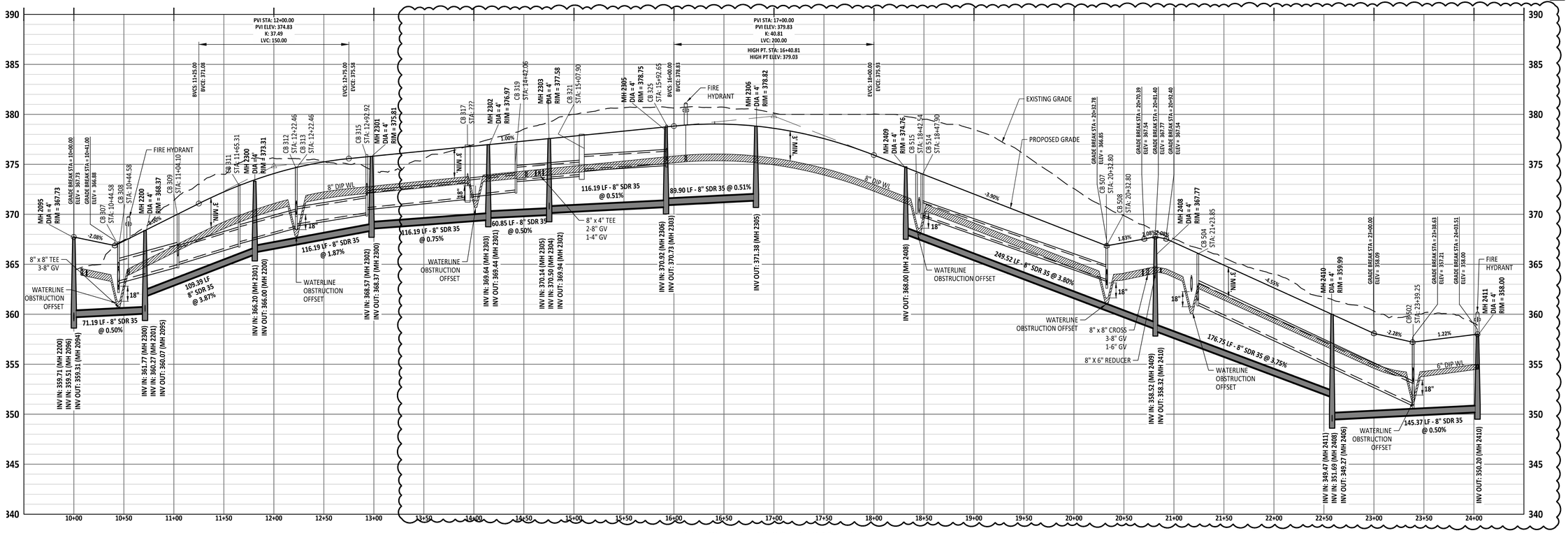
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
TANSLEY BACKYARD PLAN & PROFILE

SHEET NO.:
C10.1

Z:\Jobs\21-002 Moody Development Tract (9210003)\Proj_ Working Dwgs\Construction Set\10.0 Tansley Plan and Profiles.dwg August 5, 2026

VINTAGE VINERY COURT PLAN



VINTAGE VINERY COURT PROFILE

RALEIGH WATER - PLANS AUTHORIZED FOR CONSTRUCTION
Any work undertaken prior to receipt of this approval is accordance with the plans, files shown(s) and specifications incorporated herein shall be modified by the approval plans issued will.
Timothy Beasley
2026.08.18 09:36:20-04'00'

MRCP-0022-2025

Public
Sewer Collection / Extension System
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City of Raleigh Public Utilities Department Permit # S-5616

Public
Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # W-4212

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
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919-469-1101

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

Digitally signed by Jakob Klein
Date: 2026.08.14 09:40:00 -04'00'

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 56528 JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
2	07/01/2026	RTAP - LOT WIDENING

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
VINTAGE VINERY CT PLAN AND PROFILE

SHEET NO.:
C11.0

Z:\Jobs\21-002 Moody Development Tract (R21000)\Civil_ Working Dwgs\Construction Set\11.0 Vintage Winery Plan and Profiles.dwg August 5, 2026

KALAS FALLS SUBDIVISION PHASE 1

KALAS FALLS SUBDIVISION PHASE 2

REQUIRED CALCULATIONS

STREET TREES PROVIDED ALONG INTERNAL ROADS AT 50' O.C.
VEHICLE SURFACE AREAS SCREENED FROM OFF-SITE WITH 3' EVERGREEN HEDGE
PARKING SPACES WITHIN 60' OF SHADE TREE

SEE SHEET L2 FOR BUFFER PLANTING ENLARGEMENT

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CAL	CONT	SIZE	QTY	REMARKS
TREES							
	ACE BUE	Acer buergerianum / Trident Maple	2.5" Cal.	B&B	8' Height Min.	28	Large mature tree
	CAR AME	Carpinus caroliniana / American Hornbeam	2.5" Cal.	B&B	8' Height Min.	28	Large mature tree
	GIN EP2	Ginkgo biloba 'Blagon' / Goldspire Maidenhair Tree	2.5" Cal.	B&B	8' Height Min.	4	Large mature tree
	JUN EAS	Juniperus virginiana / Eastern Redcedar	1.5" Cal.	B&B	6' Height Min.	4	Evergreen tree
	MAG SWE	Magnolia virginiana / Sweetbay Magnolia	2.5" Cal.	B&B	8' Height Min.	29	Large mature tree
	NYS GAN	Nyssa sylvatica 'NSUHH' / Green Gable™ Tupelo	1.5" Cal.	B&B	6' Height Min.	4	Small mature tree
	QUE LYR	Quercus lyrata / Overcup Oak	2.5" Cal.	B&B	8' Height Min.	28	Large mature tree
	QUE SHU	Quercus shumardii / Shumard Oak	2.5" Cal.	B&B	8' Height Min.	29	Large mature tree
	THU VSM	Thuja occidentalis 'Emerald' / Emerald Arborvitae	1.5" Cal.	B&B	6' Height Min.	8	Evergreen tree
	TIL IML	Tilia americana 'Durable' / Durable American Linden	2.5" Cal.	B&B	8' Height Min.	28	Large mature tree
	ULM AME	Ulmus americana / American Elm	2.5" Cal.	B&B	8' Height Min.	28	Large mature tree

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
SHRUBS						
	ILE GLA	Ilex glabra / Inkberry Holly	---	3 gal	6	Evergreen shrub

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch =100

GENERAL NOTE: LOCATION OF STREET TREES MAY VARY DUE TO PROPOSED DRIVEWAYS. CONTRACTOR SHALL COORDINATE BETWEEN THE PROPOSED STREET TREES AND DRIVEWAYS. ENSURE A MINIMUM SPACING OF 15' BETWEEN SMALL STREET TREES, 25' BETWEEN MEDIUM STREET TREES, AND 35' BETWEEN LARGE STREET TREES IS MAINTAINED.

MRCP-0022-2025

Public
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City of Raleigh Public Utilities Department Permit # S-5616

Public
Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # W-4212

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

FOR CONSTRUCTION

NO.	DATE	REVISION:
2	06/01/2026	RTAP - PHASE 2 LOT WIDENING

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-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

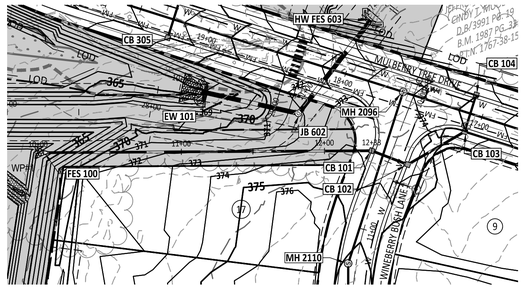
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
LANDSCAPE PLAN

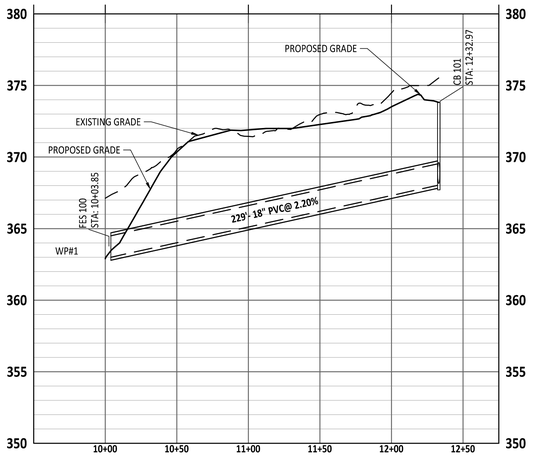
SHEET NO.:
L1

August 5, 2026

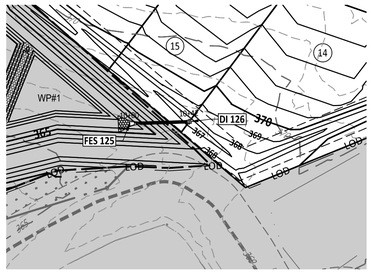
Z:\Jobs\21-002 Moody Development Tract (R210003)\dwg_Working Dwgs\Construction Set\13.5 Landscape Plan.dwg



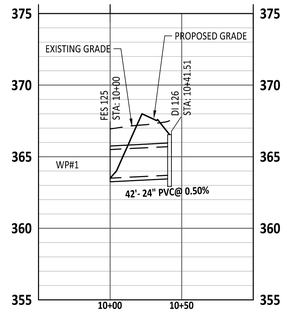
CB 101 TO FES 100 PLAN



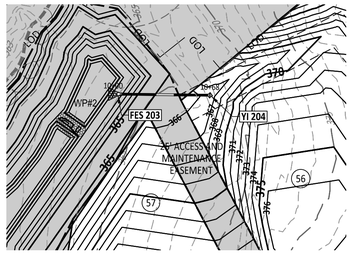
CB 101 TO FES 100 PROFILE



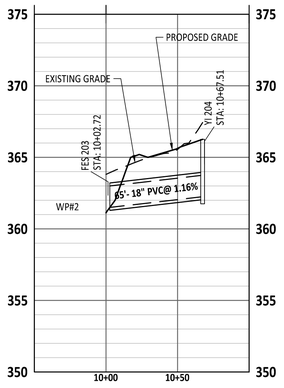
DI 126 TO FES 125 PLAN



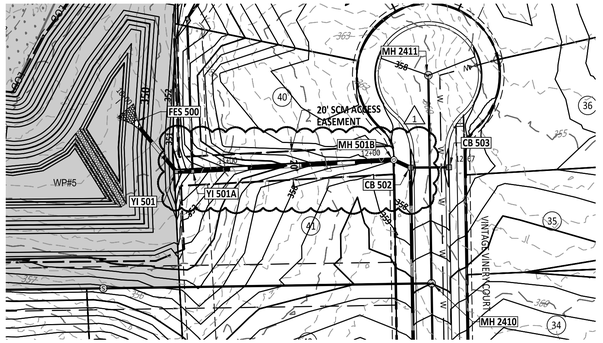
DI 126 TO FES 125 PROFILE



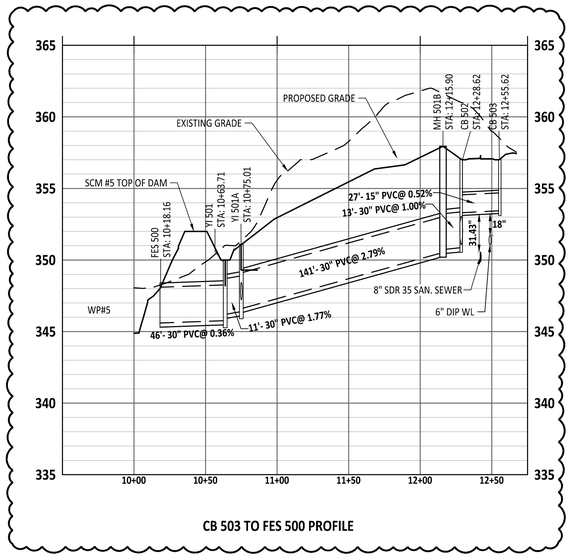
YI 204 TO FES 203 PLAN



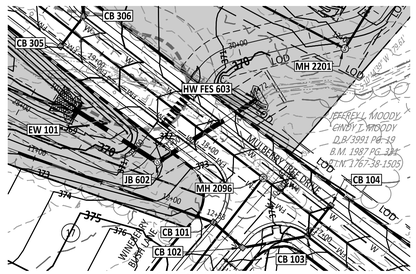
YI 204 TO FES 203 PROFILE



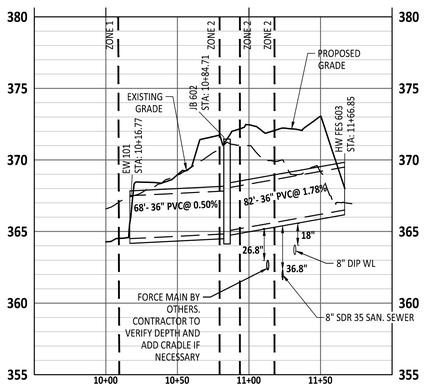
CB 503 TO FES 500 PLAN



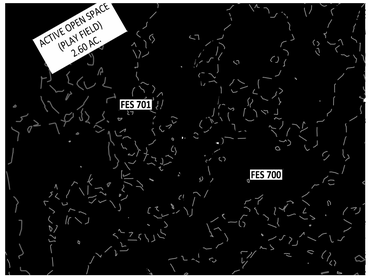
CB 503 TO FES 500 PROFILE



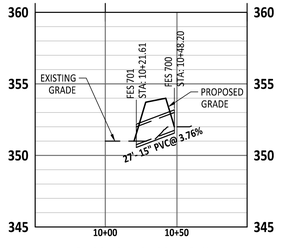
HW 603 TO EW 101 PLAN



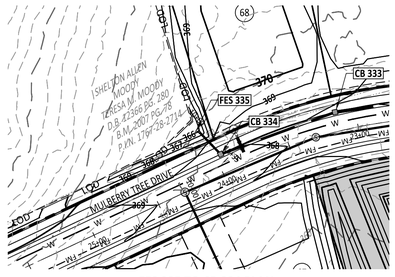
HW 603 TO EW 101 PROFILE



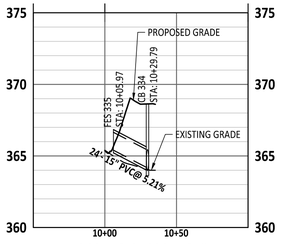
FES 700 TO FES 701 PLAN



FES 700 TO FES 701 PROFILE



FES 335 TO CB 334 PLAN



FES 335 TO CB 334 PROFILE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

MRCP-0022-2025

Public
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811 North Carolina
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North Carolina 811
811 or 1-800-632-4949
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NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2026.08.14 09:42:00 -04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER

STIPULATION FOR REUSE

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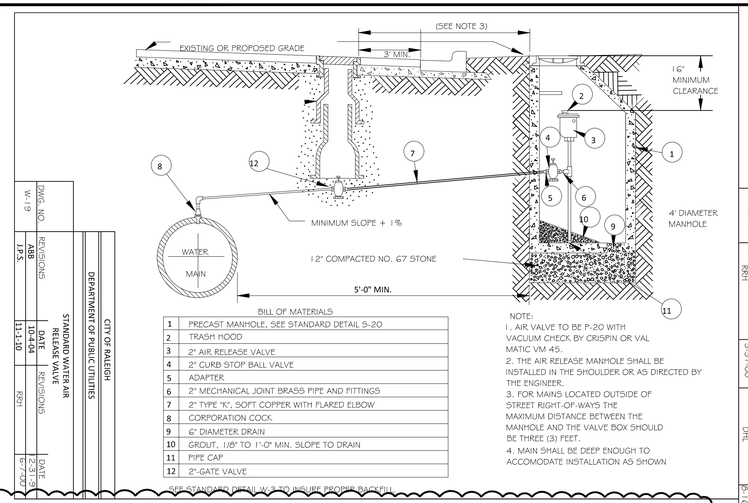
THE PRESERVE AT MOODY FARM
CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
STORM OUTFALL PLAN AND PROFILES

SHEET NO.:
C14.0

Z:\Job\21-002 Moody Development Tract\R1\000\Civil_ Working Dwgs\Construction Set\14.0 Storm Outfall Plan and Profile.dwg August 5, 2026



BILL OF MATERIALS

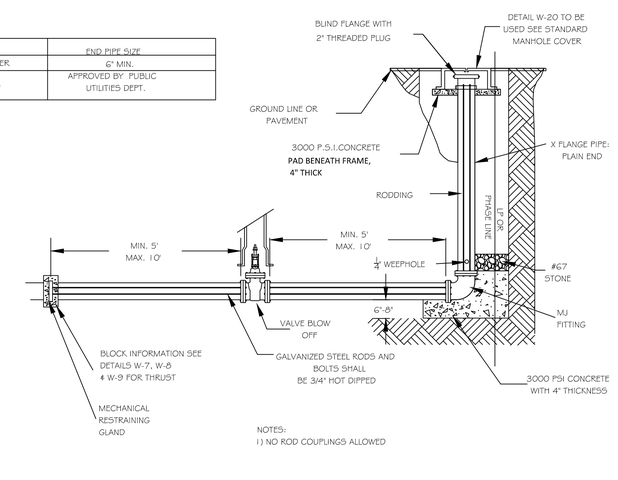
1	PRECAST MANHOLE, SEE STANDARD DETAIL S-20
2	TRASH HOOD
3	2" AIR RELEASE VALVE
4	2" CURB STOP BALL VALVE
5	ADAPTER
6	2" MECHANICAL JOINT BRASS PIPE AND FITTINGS
7	2" TYPE "K", SOFT COPPER WITH FLARED ELBOW
8	CORPORATION COCK
9	6" DIAMETER DRAIN
10	GROUT, 1/8" TO 1'-0" MIN. SLOPE TO DRAIN
11	PIPE CAP
12	2"-GATE VALVE

SEE STANDARD DETAIL W-3 TO INSURE PROPER BACKFILL

NOTE:
1. AIR VALVE TO BE P-20 WITH VACUUM CHECK BY CRISPIN OR VAL MATIC VM 45.
2. THE AIR RELEASE MANHOLE SHALL BE INSTALLED IN THE SHOULDER OR AS DIRECTED BY THE ENGINEER.
3. FOR MAINS LOCATED OUTSIDE OF STREET RIGHT-OF-WAYS THE MAXIMUM DISTANCE BETWEEN THE MANHOLE AND THE VALVE BOX SHOULD BE THREE (3) FEET.
4. MAIN SHALL BE DEEP ENOUGH TO ACCOMODATE INSTALLATION AS SHOWN

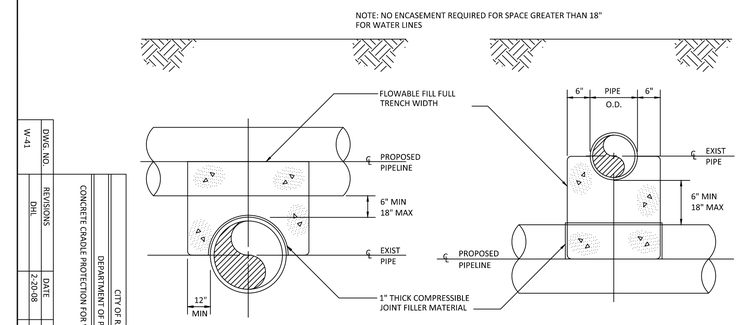
DWG. NO. W-19
REVISIONS: ADD 1-P.S. 10-04-06; RELOCATE AIR RELEASE VALVE 11-1-10; RRH
DATE: 2-28-06; 6-27-07
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD WATER AIR RELEASE VALVE

MAIN SIZE	END PIPE SIZE
16" & GREATER	6" MIN.
6" - 12"	APPROVED BY PUBLIC UTILITIES DEPT.



NOTES:
1) NO ROD COUPLINGS ALLOWED

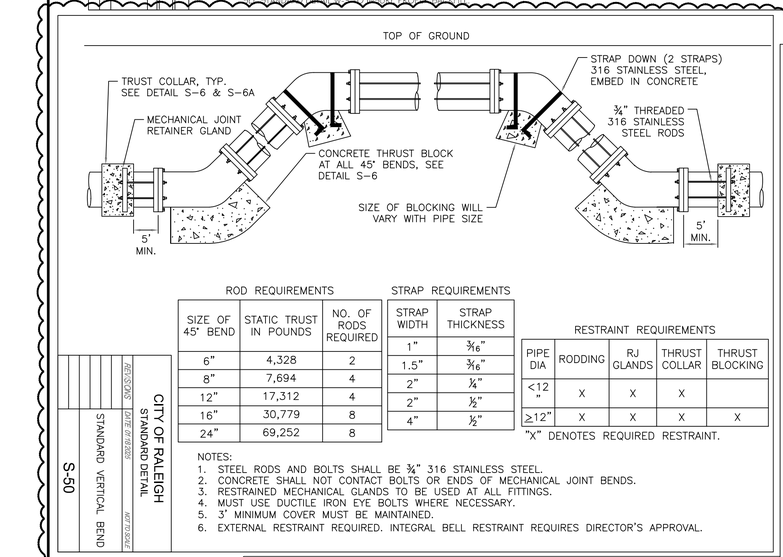
DWG. NO. W-21
REVISIONS: ADD 1-P.S. 3-31-00; RRH
DATE: 2-28-06; 4-18-06; 4-7-06
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TEMPORARY WATER MAIN BLOW OFF ASSEMBLY



PROPOSED PIPELINE OVER EXISTING PIPE

PROPOSED PIPELINE UNDER EXISTING PIPE

DWG. NO. W-11
REVISIONS: DRN.
DATE: 2-20-08
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
CONCRETE CRADLE PROTECTION FOR WATER LINE CROSSINGS



ROD REQUIREMENTS

SIZE OF 45° BEND	STATIC TRUST IN POUNDS	NO. OF RODS REQUIRED
6"	4,328	2
8"	7,694	4
12"	17,312	4
16"	30,779	8
24"	69,252	8

STRAP REQUIREMENTS

STRAP WIDTH	STRAP THICKNESS
1"	3/16"
1.5"	3/16"
2"	¼"
2"	½"
4"	½"

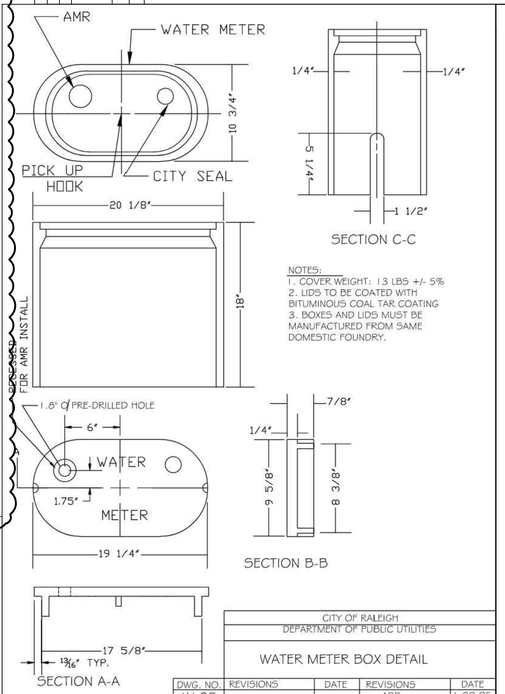
RESTRAINT REQUIREMENTS

PIPE DIA	RODDING	RJ GLANDS	THRUST COLLAR	THRUST BLOCKING
<12"	X	X	X	
≥12"	X	X	X	X

"X" DENOTES REQUIRED RESTRAINT.

NOTES:
1. STEEL RODS AND BOLTS SHALL BE ¾" 316 STAINLESS STEEL.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT BENDS.
3. RESTRAINED MECHANICAL GLANDS TO BE USED AT ALL FITTINGS.
4. MUST USE DUCTILE IRON EYE BOLTS WHERE NECESSARY.
5. 3' MINIMUM COVER MUST BE MAINTAINED.
6. EXTERNAL RESTRAINT REQUIRED. INTEGRAL BELL RESTRAINT REQUIRES DIRECTOR'S APPROVAL.

CITY OF RALEIGH
STANDARD DETAIL
S-50
STANDARD VERTICAL BEND
NOT TO SCALE
REVISIONS
DATE: 01/18/2025

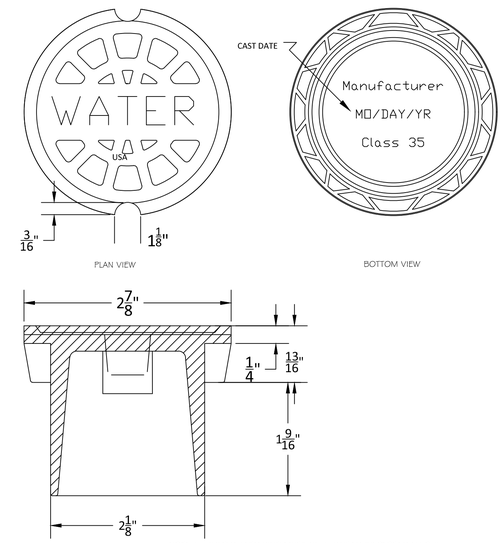


NOTES:
1) COVER WEIGHT: 13 LBS +/- 5%
2. LIDS TO BE COATED WITH BITUMINOUS COAL TAR COATING
3. BOXES AND LIDS MUST BE MANUFACTURED FROM SAME DOMESTIC FOUNDRY.

PROPOSED FOR AMR INSTALL

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
WATER METER BOX DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-25			ABB	1-20-05
	R.K.V.	8-20-13	J.P.S	11-4-10

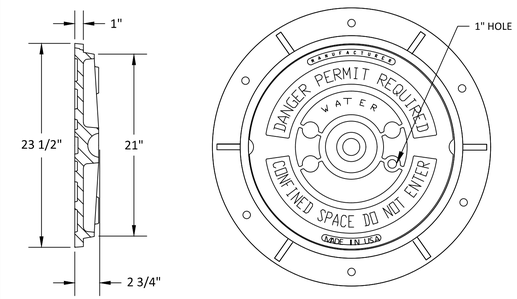


NOTE 1 - "WATER" LETTERING MUST BE 1" RAISED (RECESSED FLUSH)
NOTE 2 - VALVE COVER SHALL BE DOMESTICALLY CAST.
NOTE 3 - COVER MUST HAVE A MINIMUM WEIGHT OF 25 POUNDS.
NOTE 4 - COVER MUST BE CLASS 35 OR GREATER.
NOTE 5 - COVER MUST MEET OR EXCEED AASHTO H-20 LOAD REQUIREMENTS.

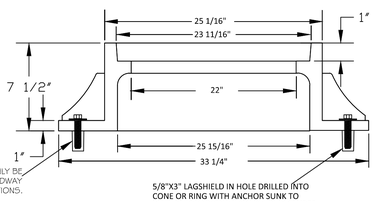
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
5 1/4" VALVE BOX DROP LID WITH 4" SKIRT

DWG. NO.	REVISIONS	DATE		
W-18				

MANHOLE FRAME AND COVER
COVER 120 LBS. MINIMUM

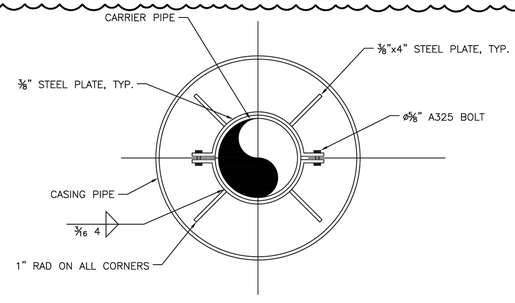


NOTES:
1) ALL MANHOLE FRAMES SHALL BE BE DOMESTICALLY CAST
2) FRAME SHALL BE A MINIMUM WEIGHT OF 182 LBS.
3) COVER SHALL WEIGH A MIN. OF 120 LBS.
4) MANHOLES WITHIN PAVED SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH S-29.



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD MANHOLE COVER

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-20	A.B.B.	4-8-04		
	D.M.L.	6-18-08		



NOTE:
USE A MINIMUM OF TWO SPIDERS PER PIPE JOINT ONE FOURTH OF THE PIPE JOINT LENGTH IN FROM BOTH THE BELL AND SPIGOT ENDS.

CITY OF RALEIGH
STANDARD DETAIL
REVISIONS: DATE: 01/18/2025 NOT TO SCALE
PIPE ALIGNMENT GUIDE
S-39

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 # _____

811 North Carolina
*** 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 ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2026.08.14 09:40:00

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER

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.

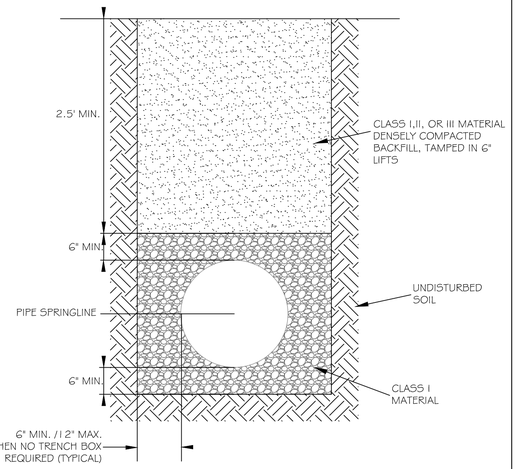
THE PRESERVE AT MOODY FARM
CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

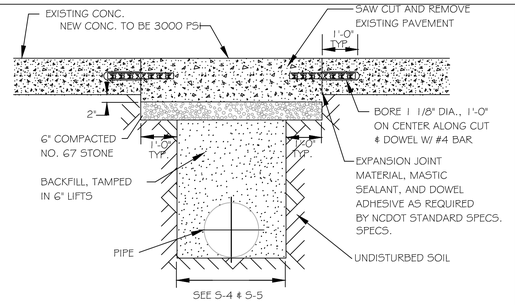
SHEET TITLE:
UTILITY DETAILS

SHEET NO.:
CD8

August 5, 2026
Z:\Jobs-21-002 Moody Development Tract (8210023)\Dwgs_Working Dwgs\Construction Set\CD1 Project Details.dwg

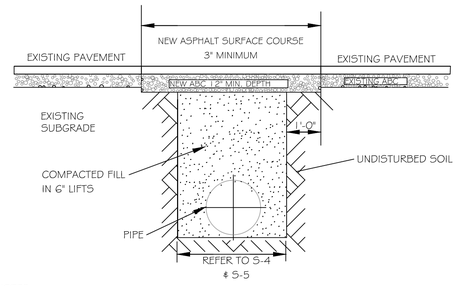


CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD BEDDING DETAILS FOR CCFRPM PIPES				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-1	J.P.S	10-8-10		



NOTES:
1. See City of Raleigh standards for trenches and pipe bedding (S-4 & S-5) for additional details.
2. Pavement cuts over 5'-0" in width shall be reinforced to N.C.D.O.T. standards.
3. Pavement cuts shall be made with an appropriate saw cut machine.
4. Pavement cuts within NCDOT ROW shall conform to the approved on site encroachment permit.

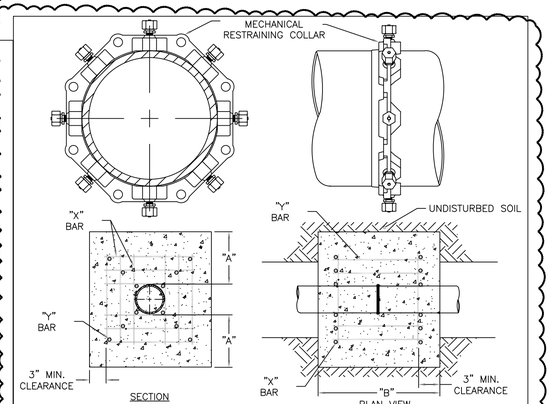
CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD CONCRETE PAVEMENT PATCH DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-2	D.W.C.	6-23-99	A.B.B.	4-19-04
	RRH	3-30-00	J.P.S	10-8-10



NOTES:
1. IN NCDOT MAINTAINED ROADWAYS ENCROACHMENT PAVEMENT PATCH REQUIREMENTS SHALL TAKE PRECEDENCE.
2. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAWCUT MACHINE.
3. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
4. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT.
5. THE ENTIRE THICKNESS AND VERTICAL EDGE OF CUT SHALL BE TACKED.
6. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
7. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
8. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING (S-4 & S-5) FOR ADDITIONAL DETAILS.
9. NO HAND PATCHING ALLOWED.
10. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD ASPHALT PAVEMENT PATCH DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-3	D.W.C.	11-1-99	A.B.B.	4-19-04
	RRH	3-30-00	J.P.S.	10-8-10

1



REINFORCING REQUIREMENTS

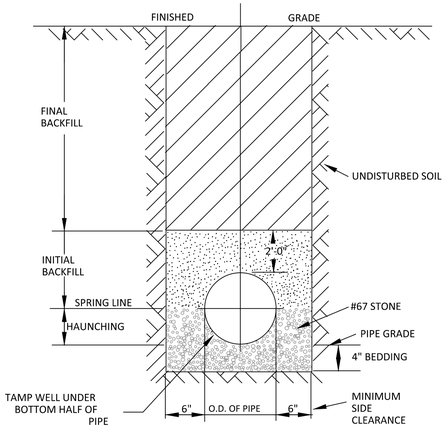
I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WEIGHT	"Y" BAR LENGTH	"Y" BAR WEIGHT	NO. REQUIRED
6"–36"	#5	2'–2" + O.D. PIPE	1.043 LBS/FT	1'–1"	1.1 LBS. EACH	X–24 Y–12
≥48"	#6	3'–0" + O.D. PIPE	1.502 LBS/FT	1'–3"	1.9 LBS. EACH	X–24 Y–12

THRUST COLLAR, AND THRUST SCEDULE

I.D. PIPE	"A"	"B"	"C"	"D"
6"–16"	1'–4"	1'–7"	2"	⅜"
20"–24"	1'–4"	1'–7"	3"	½"
30"–36"	1'–4"	1'–7"	4"	⅝"
≥48"	1'–8"	1'–9"	6"	⅞"

NOTES:
1. CONCRETE SHALL BE 3,000 PSI AND TRANSIT MIXED.
2. REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
3. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK INSTALLATION SHALL BE THE MINIMUM WIDTH AS SHOWN ON DETAIL S-5.
4. BACKFILL TAMPED IN 6" LIFTS, SEE DETAIL S-4 & S-5.
5. MECHANICAL RESTRAINING COLLAR SHALL BE AS MANUFACTURED BY MEGA-LUG OR EQUAL.

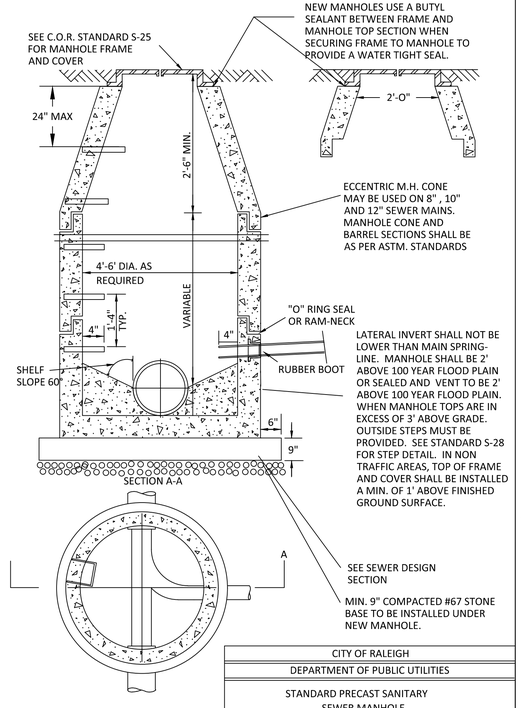
CITY OF RALEIGH				
STANDARD DETAIL				
REVISIONS	DATE: 01.18.2025		NOT TO SCALE	
	RESTRAINING COLLAR DESIGN DATA FOR PVC FORCE MAINS			
	S-6A			



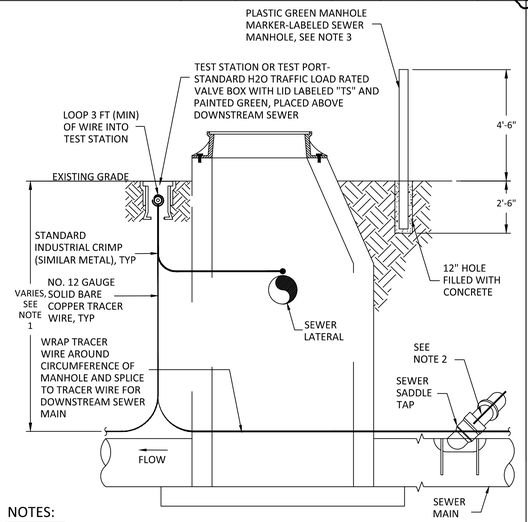
TYPICAL TRENCH BOTTOM DIMENSIONS FOR SDR 35 PVC GRAVITY PIPE

NOTES:
1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
TRENCH BOTTOM DIMENSIONS AND BACKFILLING REQUIREMENTS FOR PVC GRAVITY SEWER MAIN				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-5	TO NOTES	3-1-87	D.W.C.	9-3-99
		7-2-82	RRH	3-30-00



CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD PRECAST SANITARY SEWER MANHOLE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-20	Y.C.A.	12-31-92	ABB	2-21-05
	RRH	3-30-00	D.H.L.	6-16-08



NOTES:
1. THE TRACER WIRE SHALL BE CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. FOR GRAVITY MAIN AND OR LATERAL INSTALLATIONS LESS THAN 8 FT, THE TRACING WIRE SHALL BE ATTACHED TO THE PIPE. TRACER WIRE SHALL BE LAID FLAT AND SECURELY AFFIXED TO THE PIPE AT 10 FOOT INTERVALS. FOR GRAVITY MAIN AND OR LATERAL INSTALLATION DEEPER THAN 8 FT, THE TRACING WIRE SHALL BE INSTALLED AT A DEPTH OF 7-8 FT. THE WIRE SHALL BE PROTECTED FROM DAMAGE DURING THE EXECUTION OF THE WORK. NO BREAKS OF CUTS IN THE TRACER WIRE SHALL BE PERMITTED.
2. WHERE LATERAL TAPS ARE MADE BY SERVICE SADDLES, THE TRACER WIRE SHALL NOT BE ALLOWED TO TO BE PLACED BETWEEN THE SADDLE AND MAIN.
3. MANHOLE MARKERS SHALL BE PLACED ADJACENT TO MANHOLES AT THE DISCRETION OF OWNER OR OWNER'S REPRESENTATIVE.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
GRAVITY SEWER MAIN TRACER WIRE AND MANHOLE MARKER				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-20A	WKD	09-14		

BILL OF MATERIAL FOR 4' MANHOLE				
BAR	SIZE	LENGTH	NO.	WT. LBS.
T2	#5	5'-6"	18	103
CL. "A" CONCRETE TOTAL CU. YDS. 1.000				

BILL OF MATERIAL FOR 4' MANHOLE				
BAR	SIZE	LENGTH	NO.	WT. LBS.
T1	#5	6'-6"	20	136
CL. "A" CONCRETE TOTAL CU. YDS. 1.361				

BILL OF MATERIAL FOR 4' MANHOLE				
BAR	SIZE	LENGTH	NO.	WT. LBS.
T2	#5	7'-6"	24	165
CL. "A" CONCRETE TOTAL CU. YDS. 1.778				

* ALL BASES ARE MINIMUM 9" THICK

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
EXTENDED BASE OR CAST-IN-PLACE REINFORCED CONCRETE BASE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-21		3-1-87	ABB	2-9-05
	RRH	3-30-00		

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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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: 2026.08.14 08:40:00

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

FOR CONSTRUCTION

NO.	DATE	REVISION:
1	04/01/2026	RTAP - PHASING & SANITARY SEWER

STIPULATION FOR REUSE

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THE PRESERVE AT MOODY FARM
CID-26-004 & CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC
DATE: 08/13/2025

SHEET TITLE:
UTILITY DETAILS

SHEET NO.:
CD9

August 5, 2026

Z:\Jobs\21-002 Moody Development Tract (RJ)\00035\dwg_Working Dwgs\Construction Set\CD3 Project Details.dwg