CONSTRUCTION
INFRASTRUCTURE DRAWING SUBMITTAL
FOR
THE PRESERVE AT MOODY FARM

1ST CID SUBMITTAL: 12-02-2024
2ND CID SUBMITTAL: 02-03-2025
3RD CID SUBMITTAL: 04-01-2025
4TH CID SUBMITTAL: 06-02-2025

SITUATED AT
0 ROLESVILLE ROAD AND 0
AMAZON TRAIL

WAKE COUNTY, NORTH CAROLINA

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

GENERAL NOTES:

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

ZONING CONDITIONS (CASE # MA-21-05)

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

RALEIGH WATER INSPECTIONS QUANTITIES (SUBDIVISIONS AND SITE PLANS)

PHASE NUMBER	PHASE 1
NUMBER OF LOTS	82
NUMBER OF UNITS	82
PUBLIC WATER (LF)	5,517
PUBLIC SEWER (LF)	6,985
PRIVATE SEWER* (LF)	N/A
WATER SERVICE STUBS (QUANTITY)	87
SEWER SERVICE STUBS (QUANTITY)	87
AVERAGE DAILY FLOW PER PHASE**	26,100 GPD

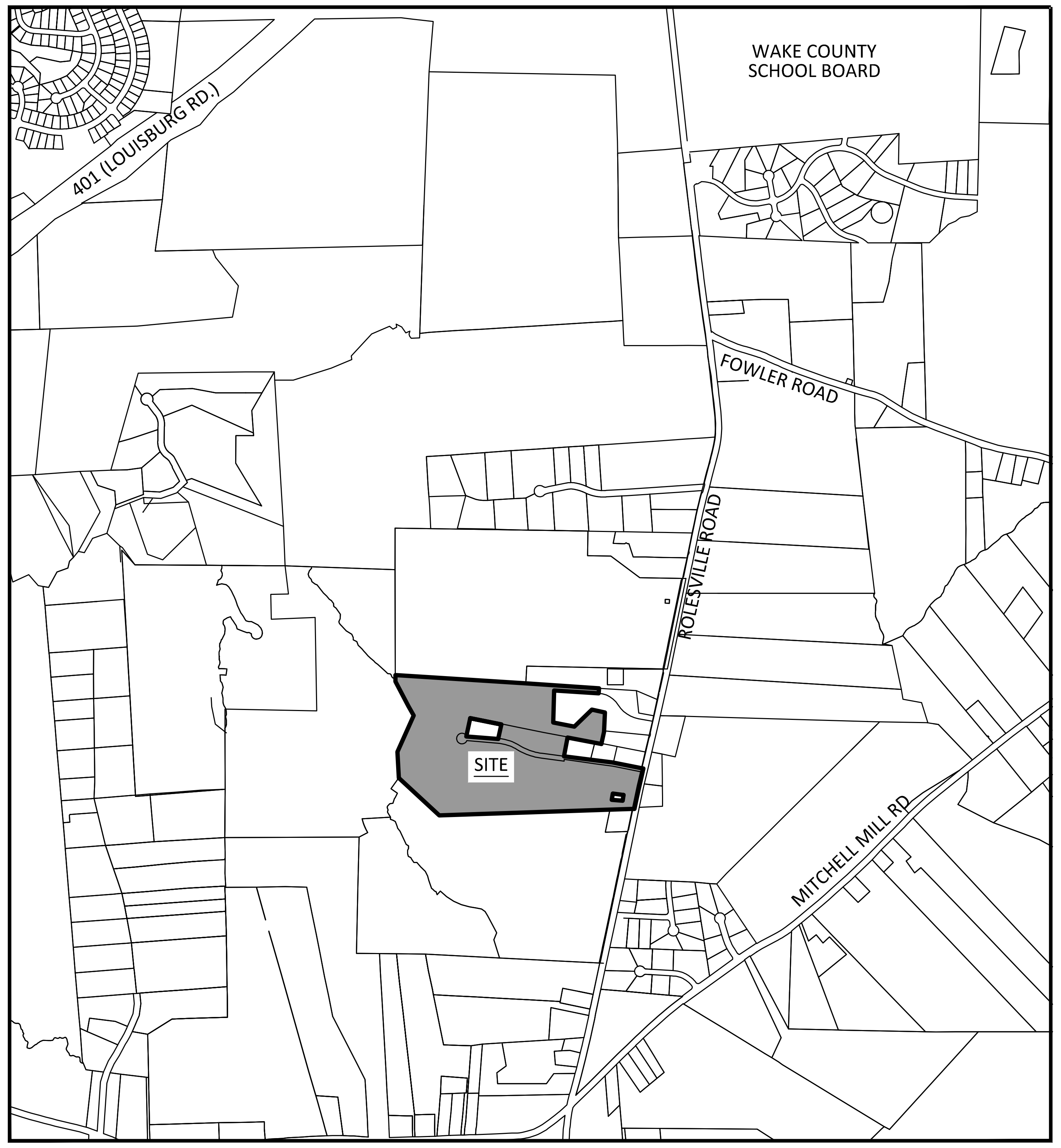
*SEWER MAINS AND MANHOLES AS PART OF A COLLECTION SYSTEM
**ENTIRE PROJECT FLOW. BASED ON 75 GPD PER BEDROOM FOR RESIDENTIAL (APARTMENTS, SINGLE FAMILY DWELLING, TOWNHOUSE, CONDOS), OR BASED ON 15A NCAC 0.2T.0114 WASTEWATER DESIGN FLOW RATES FOR COMMERCIAL AND INDUSTRIAL. THE METER SIZE MUST MACH DOMESTIC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

ATTENTION CONTRACTORS

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

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

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



VICINITY MAP
SCALE: 1"=1000'

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**

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

REQUIRED APPROVALS	
PERMIT	PERMIT NUMBER:
POND REMOVAL PERMIT	SEC-063778-2021
TOWN OF ROLESVILLE PSP	PR 22-01
TOWN OF ROLESVILLE CID	CID 24-09
WAKE COUNTY EROSION CONTROL	ESC-137379-2024
WAKE COUNTY STORMWATER	SWF-137381-2024
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

PROPRTY OWNER:	HOLLINGSWORTH, W.C., JR. AND HOLLINGSWORTH, LAURA W. P.O.BOX 61 LOUISBURG NC 27549-0061 PIN 1767284925 AND MOODY, BENNY LAWRENCE AND MOODY, JEFFREY LYNN 1716 ROLESVILLE RD, WAKE FOREST NC 27587-9677 PIN: 1767284304
DEVELOPER:	CARUSO HOMES CONTACT: CHISTY BECK 206 HIGH HOUSE RD STE 205 CARY, NC 27513 919-678-5698
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

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT

APPROVED
EROSION CONTROL ☐ S-__________
STORMWATER MGMT. ☐ S-________
FLOOD STUDY ☐ S-______________
DATE_______________
WAKE COUNTY
EFFECTIVE: 08/23/17
ENVIRONMENTAL CONSULTANT SIGNATURE

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

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

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

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

North Carolina 811
www.nc811.org
*** 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

AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881

Digitally signed by Jakob Klein
Date: 2025.06.02 14:59:26-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

SEAL 56528 JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

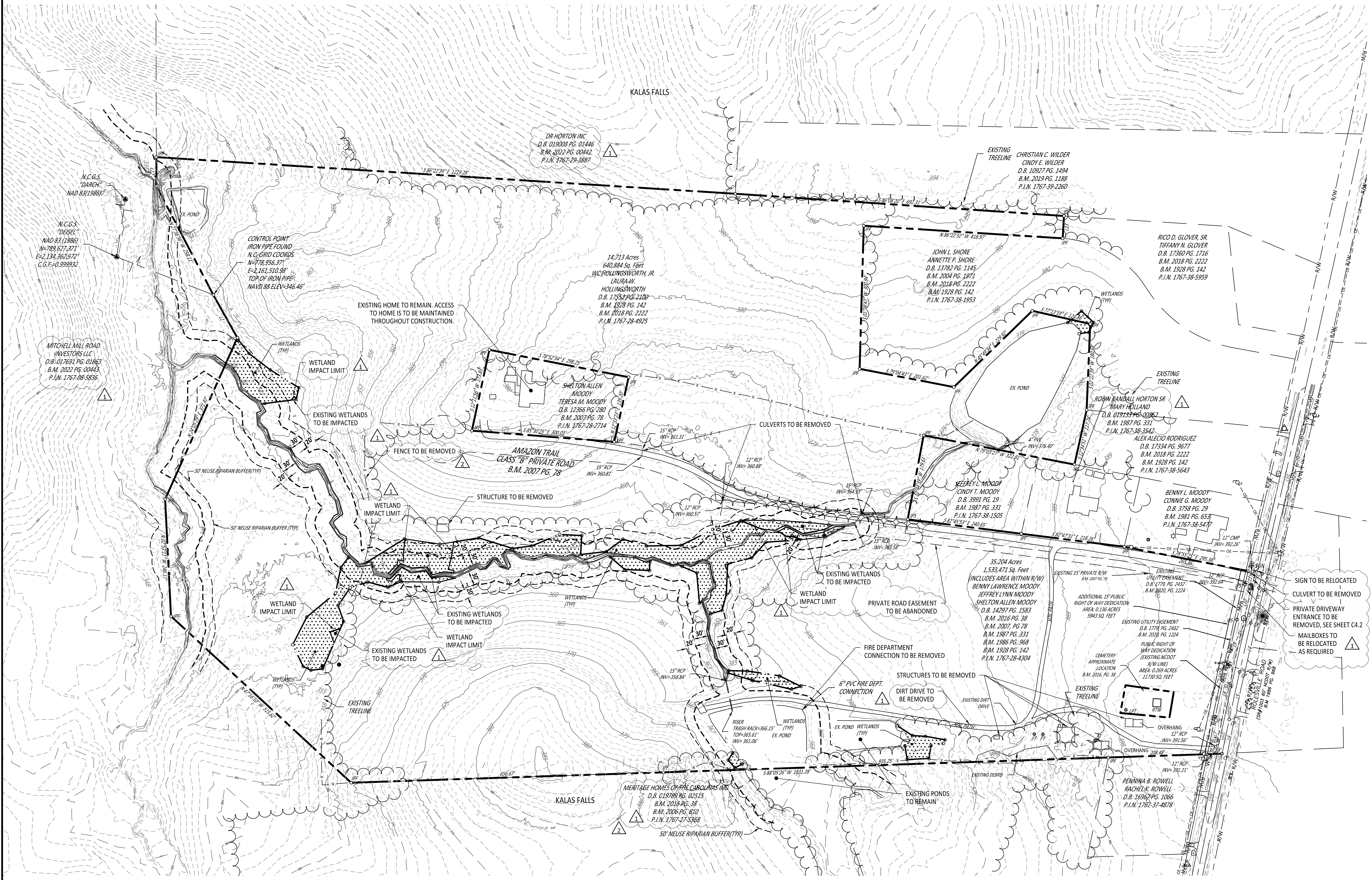
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:
COVER

SHEET NO.:
CVR

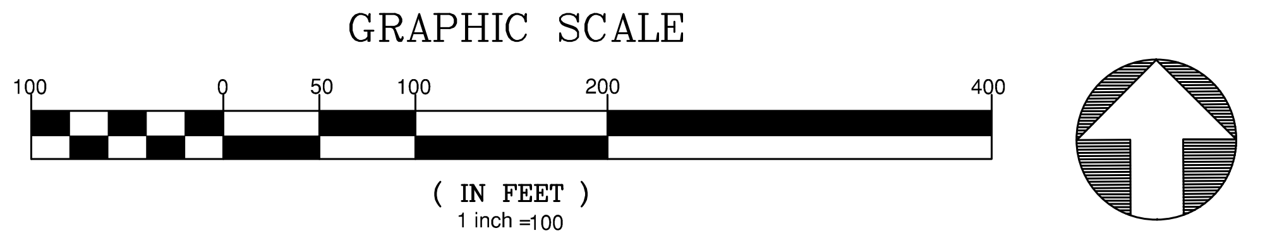
June 2, 2025
Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\0.0-CVR.dwg


KALAS FALLS
DR HORTON INC
D.B. 019008 PG. 01446
B.M. 2022 PG. 00442
P.I.N. 1767-29-3887
1
S 86°22'39" E 1219.28'
N.C.G.S. "DARCH" NAD 83(1986)
N.C.G.S. "DEISEL" NAD 83 (1986) N=789,627.371' E=2,134,362.972' C.G.F.=0.999932
EX. POND
CONTROL POINT IRON PIPE FOUND N.C. GRID COORDS. N=778,956.37' E=2,161,510.98' TOP OF IRON PIPE NAVD 88 ELEV=346.46'
N 27°36'56" W 258.11'
MITCHELL MILL ROAD INVESTORS LLC D.B. 017691 PG. 01863 B.M. 2022 PG. 00443 P.I.N. 1767-08-5836
WETLANDS (TYP)
WETLAND IMPACT LIMIT
EXISTING WETLANDS TO BE IMPACTED
N 24°05'29" E 371.97'
50' NEUSE RIPARIAN BUFFER(TYP)
50' NEUSE RIPARIAN BUFFER (TYP)
N 02°53'11" W 246.17'
30'
20'
EXISTING HOME TO REMAIN. ACCESS TO HOME IS TO BE MAINTAINED THROUGHOUT CONSTRUCTION.
14.713 Acres 640,884 Sq. Feet WC HOLLINGSWORTH, JR. LAURA W. HOLLINGSWORTH D.B. 17552 PG. 2100 B.M. 1928 PG. 142 B.M. 2018 PG. 2222 P.I.N. 1767-28-4925
S 78°52'34" E 298.25'
S 12°11'56" W 173.83'
N 12°33'23" E 139.20'
S 85°30'25" E 300.03'
SHELTON ALLEN MOODY TERESA M. MOODY D.B. 12366 PG. 280 B.M. 2007 PG. 78 P.I.N. 1767-28-2714
FENCE TO BE REMOVED
2
AMAZON TRAIL CLASS "B" PRIVATE ROAD B.M. 2007 PG. 78
STRUCTURE TO BE REMOVED
CULVERTS TO BE REMOVED
15" RCP INV= 361.31'
15" RCP INV= 360.81'
12" RCP INV= 360.88'
12" RCP INV= 360.57'
15" RCP INV= 364.93'
15" RCP INV= 363.58'
15" RCP INV= 358.84'
EXISTING TREELINE
CHRISTIAN C. WILDER CINDY E. WILDER D.B. 10927 PG. 1494 B.M. 2019 PG. 1188 P.I.N. 1767-39-2260
S 86°08'20" E 692.31'
N 86°22'32" W 418.97'
S 01°38'47" W 300.94'
S 79°04'43" E 201.62'
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
N 45°49'34" E 229.92'
S 77°13'19" E 124.86'
S 02°22'39" W 180.68'
EX. POND
4" PVC INV= 376.40'
N 79°03'27" W 322.81'
S 12°34'51" W 117.74'
S 10°44'39" W 179.61'
ROBIN RANDALL HORTON SR MARY HOLLAND D.B. 019133 PG. 00852 B.M. 1987 PG. 331 P.I.N. 1767-38-3542
ALEX ALECIO RODRIGUEZ D.B. 17334 PG. 9677 B.M. 2018 PG. 2222 B.M. 1928 PG. 142 P.I.N. 1767-38-5643
JEFFREY L. MOODY CINDY T. MOODY D.B. 3991 PG. 19 B.M. 1987 PG. 331 P.I.N. 1767-38-1505
BENNY L. MOODY CONNIE G. MOODY D.B. 3758 PG. 29 B.M. 1981 PG. 653 P.I.N. 1767-38-5477
S 82°45'53" E 240.65'
S 82°47'31" E 218.26'
S 78°55'25" E 295.38'
265.36'
12" CMP INV= 392.26'
12" RCP INV= 392.64'
35.204 Acres 1,533,471 Sq. Feet (INCLUDES AREA WITHIN R/W) BENNY LAWRENCE MOODY JEFFREY LYNN MOODY SHELTON ALLEN MOODY D.B. 14297 PG. 1583 B.M. 2016 PG. 38 B.M. 2007, PG 78 B.M. 1987 PG. 331 B.M. 1986 PG. 968 B.M. 1928 PG. 142 P.I.N. 1767-28-4304
EXISTING 15' PRIVATE R/W B.M. 2007 PG. 78
EXISTING UTILITY EASEMENT D.B. 1779, PG. 2432 B.M. 2020, PG. 1224
ADDITIONAL 15' PUBLIC RIGHT OF WAY DEDICATION AREA: 0.136 ACRES 5943 SQ. FEET
EXISTING UTILITY EASEMENT D.B. 1779, PG. 2432 B.M. 2020, PG. 1224
PUBLIC RIGHT OF WAY DEDICATION (EXISTING NCDOT R/W LINE) AREA: 0.269 ACRES 11730 SQ. FEET
CEMETERY APPROXIMATE LOCATION B.M. 2016, PG. 38
PRIVATE ROAD EASEMENT TO BE ABANDONED
SOIL PATH
FIRE DEPARTMENT CONNECTION TO BE REMOVED
6" PVC FIRE DEPT. CONNECTION
STRUCTURES TO BE REMOVED
DIRT DRIVE TO BE REMOVED
EXISTING DIRT DRIVE
EXISTING TREELINE
LPT
RTW
OVERHANG
12" RCP INV= 391.56'
12" RCP INV= 391.21'
208.48'
30.88'
SIGN TO BE RELOCATED
CULVERT TO BE REMOVED
PRIVATE DRIVEWAY ENTRANCE TO BE REMOVED, SEE SHEET C4.2
MAILBOXES TO BE RELOCATED AS REQUIRED
ROLESVILLE ROAD (SR#1003 60' NCDOT R/W) B.M 1986 PG. 968
R/W
OE
RISER TRASH RACK=366.15' TOP=365.61' INV=361.06'
EX. POND
EXISTING DEBRIS
EXISTING PONDS TO REMAIN
935.25'
S 88°05'26" W 1831.28'
656.67'
N 47°16'10" W 515.62'
PENNINA B. ROWELL RACHEL K. ROWELL D.B. 16967 PG. 1066 P.I.N. 1767-37-4878
MERITAGE HOMES OF THE CAROLINAS INC D.B. 019789 PG. 02515 B.M. 2016 PG. 38 B.M. 2006 PG. 810 P.I.N. 1767-27-5368
KALAS FALLS
50' NEUSE RIPARIAN BUFFER(TYP)
IPF
IPS

EXISTING LEGEND	
▨	WETLANDS AREA
━━━	EXISTING BOUNDARY
⌒⌒⌒	EXISTING TREE LINE
— — —	EXISTING TOPOGRAPHY
– – – – –	50' NEUSE RIPARIAN BUFFER
▬ ▬ ▬ ▬	BUFFER ZONE 1 AND 2
———	TOP OF CREEK
———	BOTTOM OF CREEK
———	POND ELEVATION BOUNDARY
═	EXISTING STORM PIPE
— — —	EXISTING ROAD EASEMENT
☐	EXISTING BUILDING

LINE TABLE

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



GENERAL NOTES:

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

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

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\1.0-Existing Conditions.dwg
June 2, 2025

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

AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.06.02 14:59:33-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

SEAL 56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET NO.:

C1.0

GENERAL NOTES:

1

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

STANDARD UTILITY NOTES (AS APPLICABLE):

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

NOTES FOR CONSTRUCTION:

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

EROSION & SEDIMENT CONTROL NOTES:

1 3

STAGE 1 E&SC CONSTRUCTION SEQUENCE:

1. THE OWNER SHALL OBTAIN NCG01 PERMIT AND PAY ANY FEE THAT MAYBE ASSOCIATED WITH THIS PERMIT.
2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY WATERSHED MANAGER.
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.
5. TREE PROTECTION FENCES, SILT FENCES, AND CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON THE APPROVED EROSION CONTROL PLANS.
6. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES INCLUDING STOCKPILE LOCATIONS. STOCKPILE LOCATIONS SHOULD BE ENCLOSED BY SILT FENCE AS SHOWN ON THE PLANS. SEED TEMPORARY DIVERSIONS, BERMS, AND SEDIMENT BASINS IMMEDIATELY AFTER CONSTRUCTION.
7. CONTRACTOR TO INSTALL BRIDGE MAT AS SHOWN ON EROSION AND SEDIMENT CONTROL PLANS FOR CREEK CROSSING, SEE PROJECT DETAILS.
8. THE TEMPORARY SEDIMENT BASINS 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 CONSTRUCTION INFRASTRUCTURE DRAWINGS PLAN SET.
9. INSTALL BYPASS PDD #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.
10. INSTALL ANY PERMANENT/TEMPORARY STORMWATER INFRASTRUCTURE NOTED IN THE STAGE 1; 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.
11. 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.
12. RIP RAP DISSIPATERS ARE TO BE INSTALLED AS SEEN IN THE CID PLAN SET SCHEDULES SHEET.
13. 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.
14. 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.
15. CALL FOR INSPECTION BY WAKE COUNTY WATERSHED MANAGER FOR APPROVAL BEFORE PROCEEDING TO STAGE 2 CONSTRUCTION.

STAGE 2 E&SC CONSTRUCTION SEQUENCE:

1. 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.
2. 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.
3. 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 WORKING DAY. MODIFICATIONS AND/OR RETROFITTING OF STORM DRAINAGE INFRASTRUCTURE INSTALLED IN STAGE 1 WILL BE REQUIRED AS THE FINISH GRADE IS ESTABLISHED ON SITE.
4. 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.
5. CULVERT CROSSINGS ARE TO BE INSTALLED. SEE "CONSTRUCTION SEQUENCE FOR THE 54" RCP CULVERT CROSSING" ON SHEET C8.5 FOR DETAILED CREEK CROSSING CONSTRUCTION SEQUENCE.
6. ROAD CONSTRUCTION SHALL TAKE PLACE.
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.
11. CALL FOR INSPECTION BY WAKE COUNTY WATERSHED MANAGER FOR APPROVAL BEFORE PROCEEDING TO STAGE 3 CONSTRUCTION.

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. STORMWATER INFRASTRUCTURE SHOULD BE CLEANED OUT IF SEDIMENT IS VISIBLE WITHIN THE NETWORK.
2. VERTICAL CONSTRUCTION MAY BEGIN.
3. CLEAN/INSPECT INLET PROTECTION FOLLOWING ANY STORM EVENTS OF 1" OR EVERY FOURTEEN (14) DAYS.
4. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL SLOPES WITHIN FOURTEEN (14) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
5. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND IS ESTABLISHED.
6. REQUEST INSPECTION BY WAKE COUNTY WATERSHED MANAGER AFTER VEGETATION IS ESTABLISHED TO REMOVE REMAINING EROSION CONTROL MEASURES.
7. 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.
8. THE OWNER IS TO FINALIZE THE NCG01 PERMIT.

SCM CONVERSION SEQUENCE:

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

REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE*

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

STOCKPILE DESIGN CRITERIA

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

MAINTENANCE REQUIREMENTS TO BE NOTED ON THE PLAN

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

REQUIRED WAKE COUNTY BASIN REMOVAL SEQUENCE

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

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

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

C-3881

Digitally signed by Jakob Klein
Date: 2025.06.02
14:59:34-04'00'

PRELIMINARY
- DO NOT USE FOR CONSTRUCTION

SEAL 56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:
GENERAL NOTES

SHEET NO.:
C2.0

June 2, 2025

MAINTENANCE OF EROSION CONTROL MEASURES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ROLLED EROSION CONTROL PRODUCTS -

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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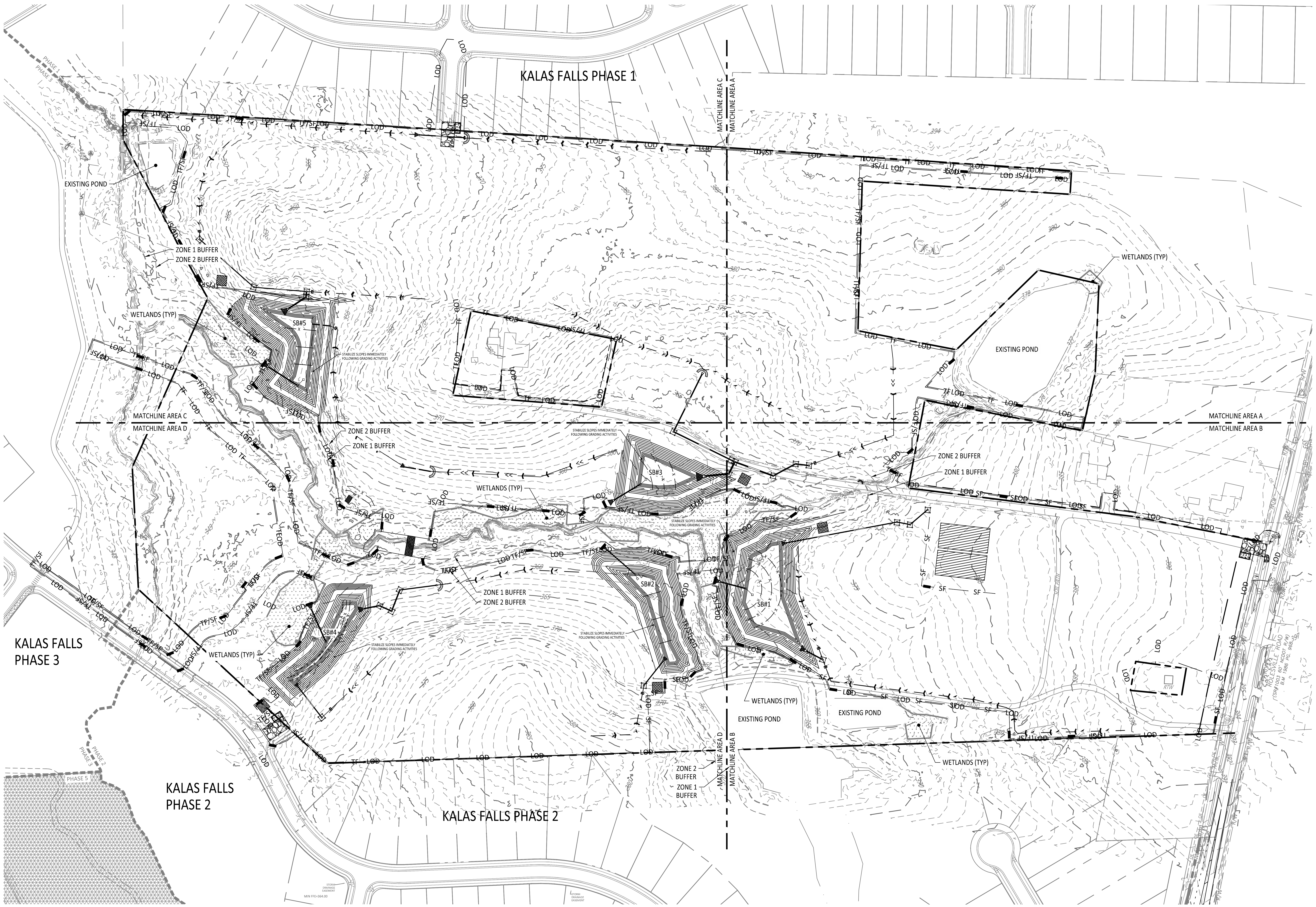
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

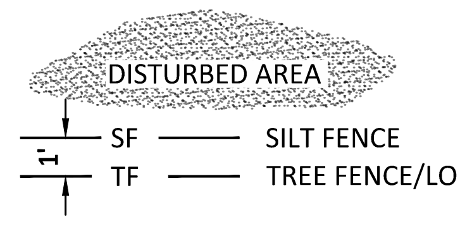
GENERAL NOTES

SHEET NO.: **C2.1**



EROSION CONTROL LEGEND		REFERENCE DETAIL
—— SF ——	SILT FENCE	CD3
—— LOD ——	LIMITS OF DISTURBANCE	-
—— TF ——	TREE PROTECTION FENCE	CD1
—— TF/SF ——	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
— ➤ — ➤ —	PERMANENT DIVERSION DITCH	CD1
—— >> ——	TEMPORARY DIVERSION DITCH	CD1
▬	SILT FENCE OUTLET	CD3
▨	SEDIMENT SACK INLET PROTECTION	CD2
⌒	STANDARD PIPE INLET PROTECTION	CD2
☐	GRAVEL INLET PROTECTION	CD2
⊠	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
▨	RIPRAP DISSIPATOR	CD2
—— x —— x ——	BAFFLE	CD1
▬ ▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
^	WATTLE	CD5
□—	SKIMMER	CD3
▣	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
■■■■■■■■	BUFFER ZONE 1 AND 2
▬ — — ▬	PROPOSED ROW
⁙⁙⁙⁙	WETLANDS



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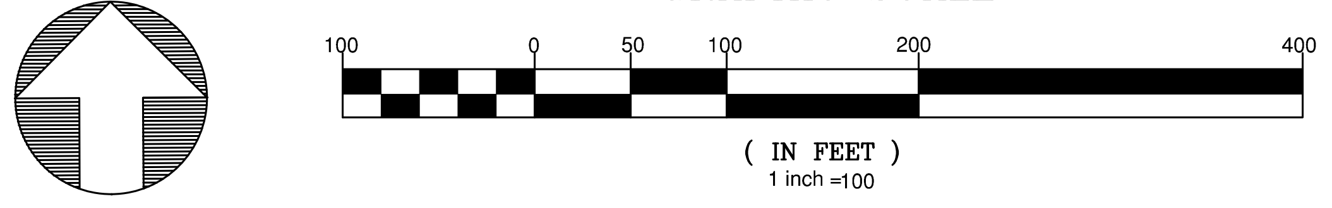

GENERAL NOTES:

1. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

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

JOB NUMBER: 21-002
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SHEET TITLE:

**OVERALL
ESC
STAGE 1**

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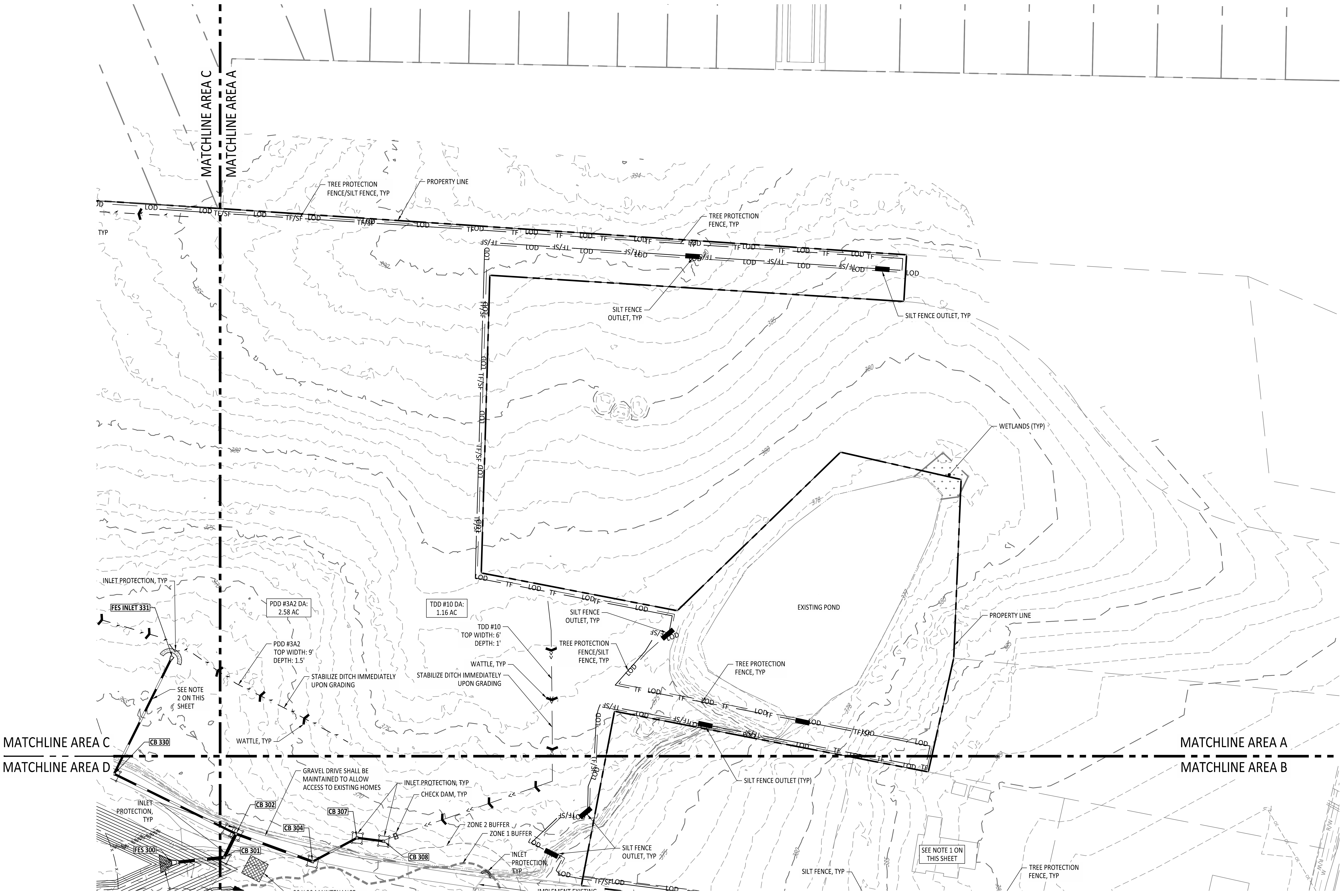

EROSION CONTROL LEGEND		REFERENCE DETAIL
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—— LOD ——	LIMITS OF DISTURBANCE	-
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—— x —— x ——	BAFFLE	CD1
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⌃	WATTLE	CD5
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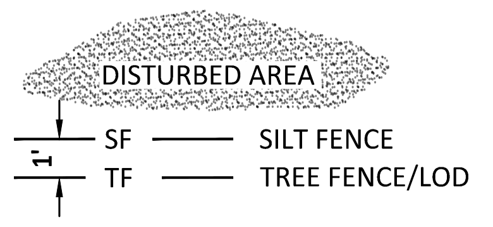
▣	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
▪▪▪▪▪▪▪▪	BUFFER ZONE 1 AND 2
▬ ▬ ▬ ▬	PROPOSED ROW
⁘	WETLANDS



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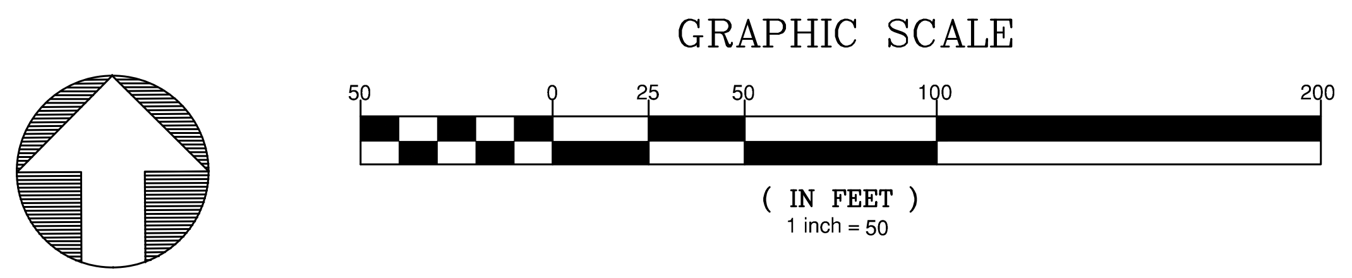
6. PERMANENT DIVERSION DITCH #6 AND #7 (PDD) ARE TO BYPASS PROJECT SCM'S AND DIVERT OFFSITE RUNOFF TO WETLANDS. SEE PROJECT CONSTRUCTION SEQUENCE. SEE GRADING AND DRAINAGE SHEETS FOR BYPASS PDD DESIGN AND CALCULATIONS.
7. SEE PROJECT SCHEDULE SHEETS FOR RIP RAP CALCULATIONS.



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AT
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ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
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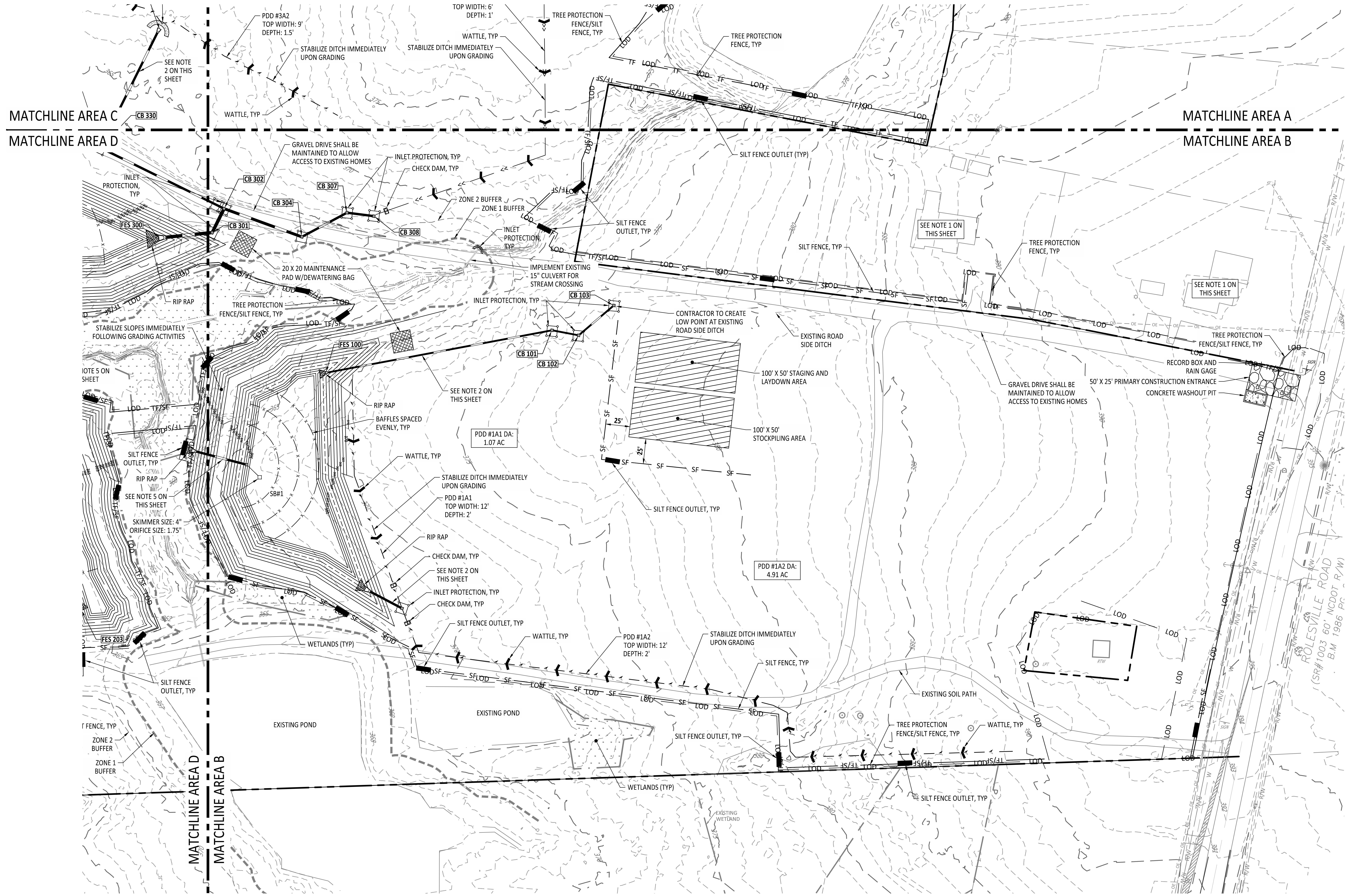
DATE: 06/02/2025

SHEET TITLE:

ESC STAGE 1 A

SHEET NO.:
C3.1

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\3.0-3.4 Erosion Control Stage 1.dwg June 2, 2025



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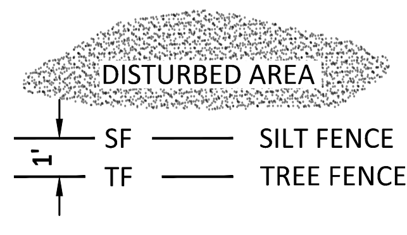
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - -	50' NEUSE RIPARIAN BUFFER
■■■■■	BUFFER ZONE 1 AND 2
▬ ▬ ▬	PROPOSED ROW
⁚⁚⁚	WETLANDS



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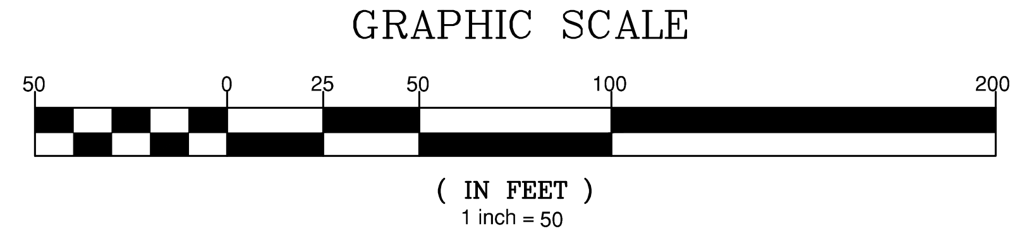

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THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

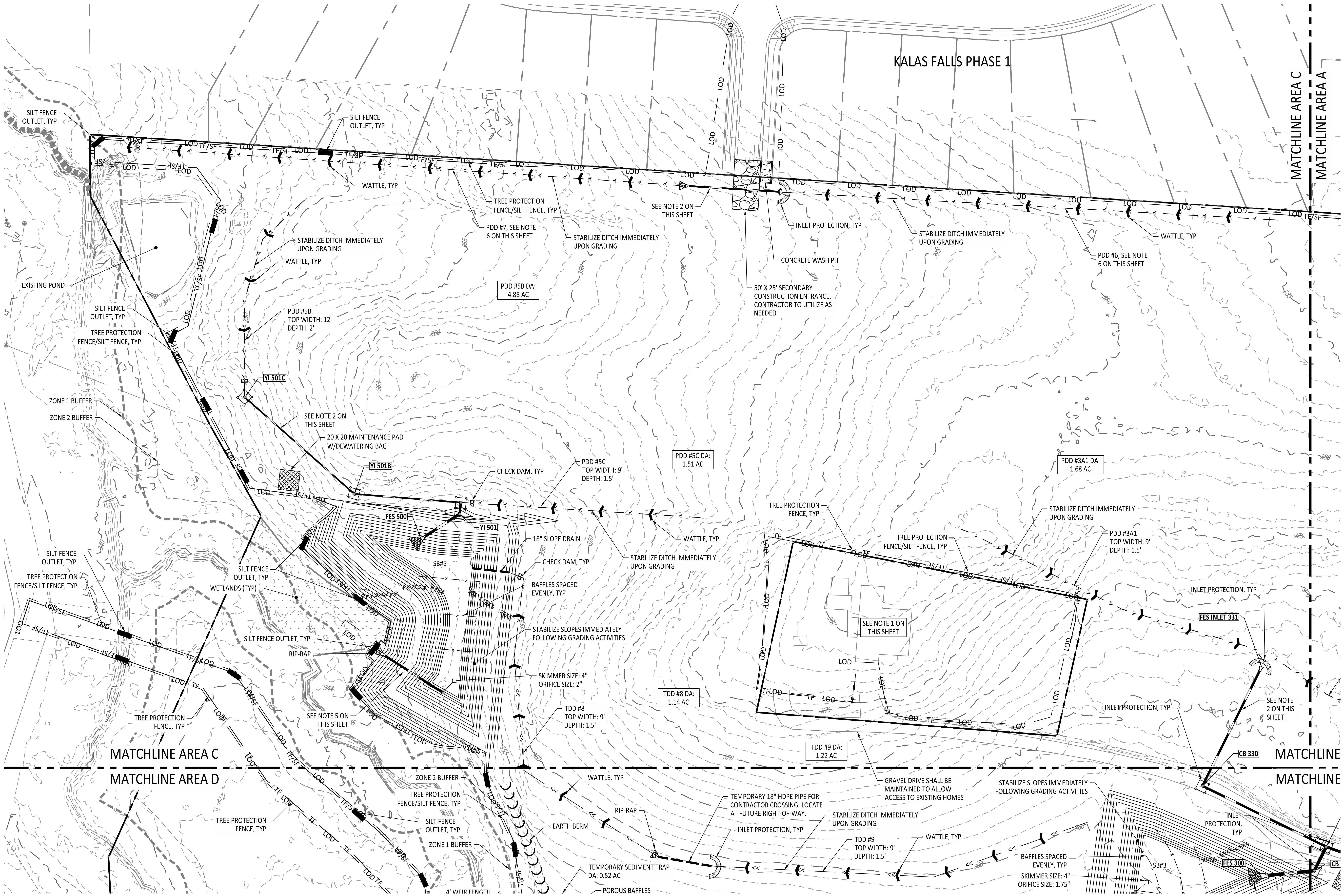
SHEET TITLE:

ESC STAGE 1 B

SHEET NO.:

C3.2

June 2, 2025
Z:\Jobs\21-002 Moody Development Tract (R2100021)\dwg_Working Dwgs\Construction Set\3.0-3.4 Erosion Control Stage 1.dwg

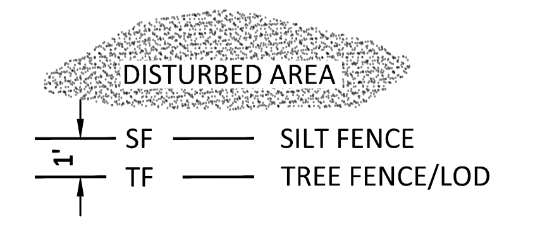

KALAS FALLS PHASE 1
MATCHLINE AREA C
MATCHLINE AREA A
MATCHLINE AREA D
MATCHLINE AREA B
SILT FENCE OUTLET, TYP
WATTLE, TYP
TREE PROTECTION FENCE/SILT FENCE, TYP
PDD #7, SEE NOTE 6 ON THIS SHEET
STABILIZE DITCH IMMEDIATELY UPON GRADING
SEE NOTE 2 ON THIS SHEET
INLET PROTECTION, TYP
CONCRETE WASH PIT
50' X 25' SECONDARY CONSTRUCTION ENTRANCE, CONTRACTOR TO UTILIZE AS NEEDED
PDD #6, SEE NOTE 6 ON THIS SHEET
EXISTING POND
PDD #5B TOP WIDTH: 12' DEPTH: 2'
PDD #5B DA: 4.88 AC
YI 501C
ZONE 1 BUFFER
ZONE 2 BUFFER
20 X 20 MAINTENANCE PAD W/DEWATERING BAG
YI 501B
CHECK DAM, TYP
PDD #5C TOP WIDTH: 9' DEPTH: 1.5'
PDD #5C DA: 1.51 AC
FES 500
YI 501
18" SLOPE DRAIN
SB#5
BAFFLES SPACED EVENLY, TYP
STABILIZE SLOPES IMMEDIATELY FOLLOWING GRADING ACTIVITIES
SKIMMER SIZE: 4" ORIFICE SIZE: 2"
TDD #8 TOP WIDTH: 9' DEPTH: 1.5'
TDD #8 DA: 1.14 AC
WETLANDS (TYP)
SILT FENCE OUTLET, TYP
RIP-RAP
SEE NOTE 5 ON THIS SHEET
TREE PROTECTION FENCE, TYP
PDD #3A1 DA: 1.68 AC
PDD #3A1 TOP WIDTH: 9' DEPTH: 1.5'
SEE NOTE 1 ON THIS SHEET
INLET PROTECTION, TYP
FES INLET 331
SEE NOTE 2 ON THIS SHEET
CB 330
TDD #9 DA: 1.22 AC
GRAVEL DRIVE SHALL BE MAINTAINED TO ALLOW ACCESS TO EXISTING HOMES
TEMPORARY 18" HDPE PIPE FOR CONTRACTOR CROSSING. LOCATE AT FUTURE RIGHT-OF-WAY.
EARTH BERM
TEMPORARY SEDIMENT TRAP DA: 0.52 AC
POROUS BAFFLES
4' WEIR LENGTH
TDD #9 TOP WIDTH: 9' DEPTH: 1.5'
SB#3
FES 300
SKIMMER SIZE: 4" ORIFICE SIZE: 1.75"
LOD
TF/SF

EROSION CONTROL LEGEND		REFERENCE DETAIL
—— SF ——	SILT FENCE	CD3
—— LOD ——	LIMITS OF DISTURBANCE	-
—— TF ——	TREE PROTECTION FENCE	CD1
—— TF/SF ——	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
— ➤ — ➤ —	PERMANENT DIVERSION DITCH	CD1
—— >> ——	TEMPORARY DIVERSION DITCH	CD1
▬	SILT FENCE OUTLET	CD3
▨	SEDIMENT SACK INLET PROTECTION	CD2
◠	STANDARD PIPE INLET PROTECTION	CD2
☐	GRAVEL INLET PROTECTION	CD2
⊠	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
▶	RIPRAP DISSIPATOR	CD2
— x — x —	BAFFLE	CD1
▬ ▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
⌃	WATTLE	CD5
□—	SKIMMER	CD3
▣	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

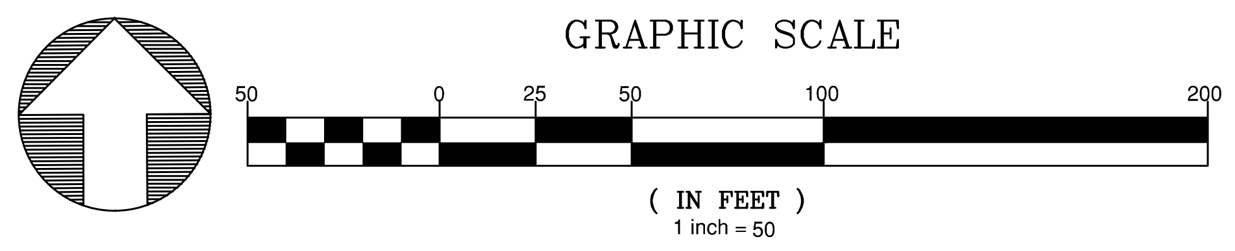
SITE LEGEND	
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
■■■■■■■■	BUFFER ZONE 1 AND 2
▬ ▬ ▬ ▬	PROPOSED ROW
⁚⁚⁚⁚⁚	WETLANDS

GENERAL NOTES:

1. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE IS TO BE NO CONTRACTOR PARKING, STOCKPILING, STAGING, OR BLOCKED ACCESS AT ANYTIME DURING CONSTRUCTION ACTIVITIES.
2. ALL PROPOSED DRAINAGE INFRASTRUCTURE IS PERMANENT AND WILL SERVE TEMPORARY SEDIMENT BASIN. SEE STORM DRAINAGE SCHEDULES FOR PIPE AND STRUCTURE DATA. NOTE THAT STRUCTURES MAY HAVE TO BE RETROFITTED AS THE SITE IS BROUGHT TO FINISH GRADE. SEE PROJECT CONSTRUCTION SEQUENCE FOR FURTHER DETAIL.
3. SEE DRAINAGE AND GRADING SHEETS FOR ALL PERMANENT DIVERSION DITCH DESIGN.
4. SEE PROJECT SCHEDULES FOR PERMANENT & TEMPORARY DIVERSION DITCH CALCULATIONS.
5. TEMPORARY SEDIMENT BASINS (TSB) ARE TO BE CONVERTED PERMANENT SCM'S AT FINAL STAGE OF E&SC. SEE PROJECT CONSTRUCTION SEQUENCE. TSB GEOMETRY, ELEVATIONS, AND INFRASTRUCTURE IS TO BE CONSTRUCTED AS SEEN ON APPROVED GRADING AND DRAINAGE CID PLAN SHEETS.
6. PERMANENT DIVERSION DITCH #6 AND #7 (PDD) ARE TO BYPASS PROJECT SCM'S AND DIVERT OFFSITE RUNOFF TO WETLANDS. SEE PROJECT CONSTRUCTION SEQUENCE. SEE GRADING AND DRAINAGE SHEETS FOR BYPASS PDD DESIGN AND CALCULATIONS.
7. SEE PROJECT SCHEDULE SHEETS FOR RIP RAP CALCULATIONS.



TF/SF EXHIBIT



(IN FEET)
1 inch = 50

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Raleigh, NC 27607
919-469-1101

AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881

Digitally signed by Jakob Klein
Date: 2025.06.02 14:59:40-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

SEAL 56528 JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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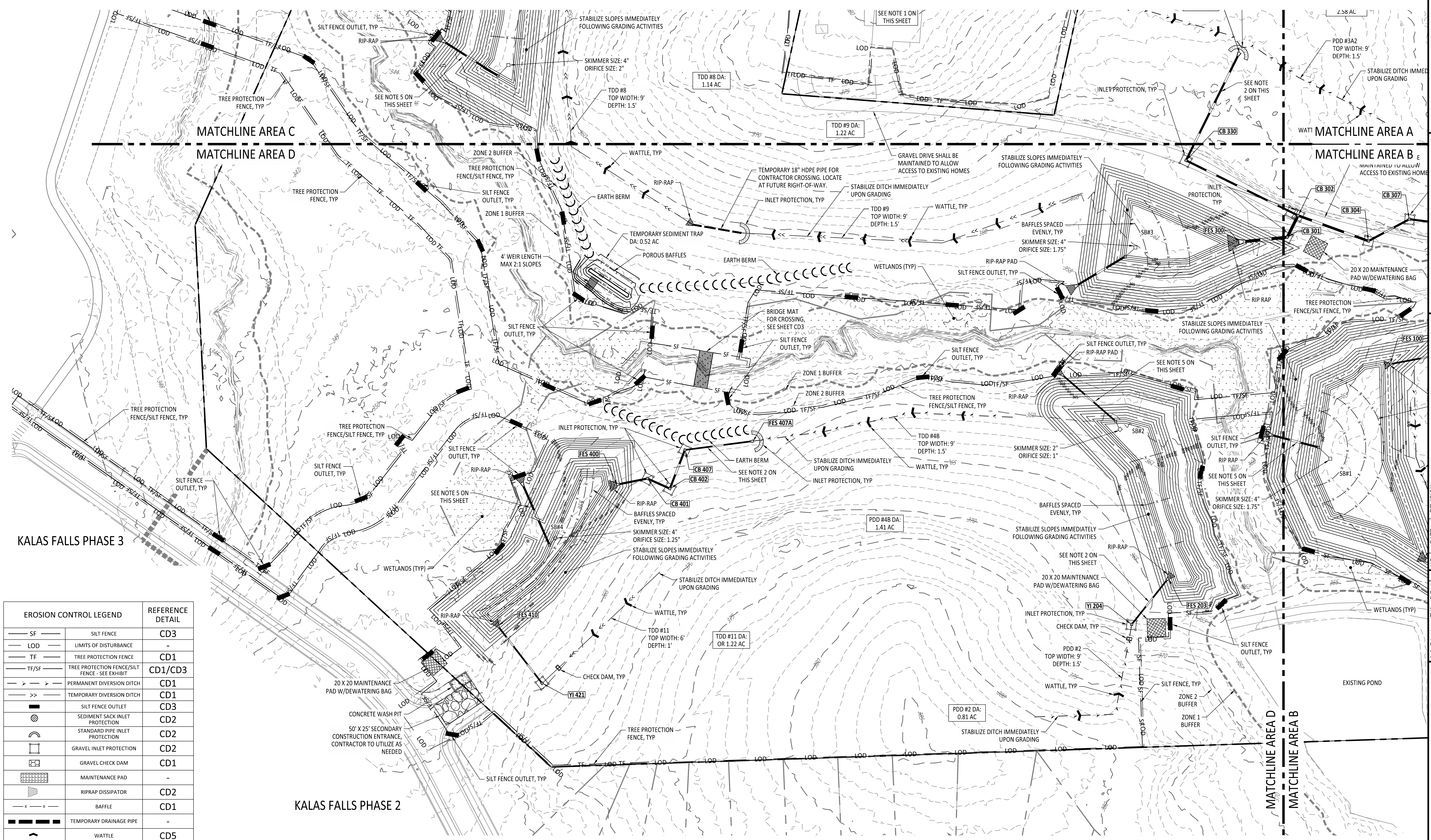
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

ESC STAGE 1 C

SHEET NO.:
C3.3


MATCHLINE AREA C
MATCHLINE AREA D
MATCHLINE AREA A
MATCHLINE AREA B
KALAS FALLS PHASE 3
KALAS FALLS PHASE 2
EXISTING POND
SILT FENCE OUTLET, TYP
RIP-RAP
STABILIZE SLOPES IMMEDIATELY FOLLOWING GRADING ACTIVITIES
SKIMMER SIZE: 4" ORIFICE SIZE: 2"
TREE PROTECTION FENCE, TYP
SEE NOTE 5 ON THIS SHEET
TDD #8 TOP WIDTH: 9' DEPTH: 1.5'
TDD #8 DA: 1.14 AC
TDD #9 DA: 1.22 AC
SEE NOTE 1 ON THIS SHEET
SEE NOTE 2 ON THIS SHEET
INLET PROTECTION, TYP
PDD #3A2 TOP WIDTH: 9' DEPTH: 1.5'
STABILIZE DITCH IMMEDIATELY UPON GRADING
2.58 AC
CB 330
ZONE 2 BUFFER
TREE PROTECTION FENCE/SILT FENCE, TYP
WATTLE, TYP
TEMPORARY 18" HDPE PIPE FOR CONTRACTOR CROSSING. LOCATE AT FUTURE RIGHT-OF-WAY.
GRAVEL DRIVE SHALL BE MAINTAINED TO ALLOW ACCESS TO EXISTING HOMES
SILT FENCE OUTLET, TYP
ZONE 1 BUFFER
EARTH BERM
TDD #9 TOP WIDTH: 9' DEPTH: 1.5'
TEMPORARY SEDIMENT TRAP DA: 0.52 AC
POROUS BAFFLES
4' WEIR LENGTH MAX 2:1 SLOPES
BAFFLES SPACED EVENLY, TYP
SKIMMER SIZE: 4" ORIFICE SIZE: 1.75"
SB#3
FES 300
CB 302
CB 304
CB 301
CB 307
RIP-RAP PAD
SILT FENCE OUTLET, TYP
20 X 20 MAINTENANCE PAD W/DEWATERING BAG
WETLANDS (TYP)
BRIDGE MAT FOR CROSSING, SEE SHEET CD3
FES 100
ZONE 1 BUFFER
ZONE 2 BUFFER
TREE PROTECTION FENCE/SILT FENCE, TYP
SB#2
SB#1
SKIMMER SIZE: 2" ORIFICE SIZE: 1"
FES 407A
TDD #4B TOP WIDTH: 9' DEPTH: 1.5'
SEE NOTE 2 ON THIS SHEET
CB 407
CB 402
CB 401
FES 400
SB#4
SKIMMER SIZE: 4" ORIFICE SIZE: 1.25"
PDD #4B DA: 1.41 AC
FES 410
FES 203
YI 204
YI 421
CHECK DAM, TYP
TDD #11 TOP WIDTH: 6' DEPTH: 1'
TDD #11 DA: OR 1.22 AC
PDD #2 TOP WIDTH: 9' DEPTH: 1.5'
PDD #2 DA: 0.81 AC
SILT FENCE, TYP
ZONE 2 BUFFER
ZONE 1 BUFFER
CONCRETE WASH PIT
50' X 25' SECONDARY CONSTRUCTION ENTRANCE, CONTRACTOR TO UTILIZE AS NEEDED
SILT FENCE OUTLET, TYP
LOD
TF
SF
TF/SF

EROSION CONTROL LEGEND		REFERENCE DETAIL
—— SF ——	SILT FENCE	CD3
—— LOD ——	LIMITS OF DISTURBANCE	-
—— TF ——	TREE PROTECTION FENCE	CD1
—— TF/SF ——	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
— ➤ — ➤ —	PERMANENT DIVERSION DITCH	CD1
—— >> ——	TEMPORARY DIVERSION DITCH	CD1
▬	SILT FENCE OUTLET	CD3
▨	SEDIMENT SACK INLET PROTECTION	CD2
⌓	STANDARD PIPE INLET PROTECTION	CD2
☐	GRAVEL INLET PROTECTION	CD2
⊠	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
▨	RIPRAP DISSIPATOR	CD2
—— x —— x ——	BAFFLE	CD1
▬ ▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
⌃	WATTLE	CD5
□—	SKIMMER	CD3
▣	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
--------	50' NEUSE RIPARIAN BUFFER
▪▪▪▪▪▪▪▪	BUFFER ZONE 1 AND 2
▬ ▬ ▬	PROPOSED ROW
⁘	WETLANDS

GENERAL NOTES:

1. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THERE IS TO BE NO CONTRACTOR PARKING, STOCKPILING, STAGING, OR BLOCKED ACCESS AT ANYTIME DURING CONSTRUCTION ACTIVITIES.
2. ALL PROPOSED DRAINAGE INFRASTRUCTURE IS PERMANENT AND WILL SERVE TEMPORARY SEDIMENT BASIN. SEE STORM DRAINAGE SCHEDULES FOR PIPE AND STRUCTURE DATA. NOTE THAT STRUCTURES MAY HAVE TO BE RETROFITTED AS THE SITE IS BROUGHT TO FINISH GRADE. SEE PROJECT CONSTRUCTION SEQUENCE FOR FURTHER DETAIL.
3. SEE DRAINAGE AND GRADING SHEETS FOR ALL PERMANENT DIVERSION DITCH DESIGN.
4. SEE PROJECT SCHEDULES FOR PERMANENT & TEMPORARY DIVERSION DITCH CALCULATIONS.
5. TEMPORARY SEDIMENT BASINS (TSB) ARE TO BE CONVERTED PERMANENT SCM'S AT FINAL STAGE OF E&SC. SEE PROJECT CONSTRUCTION SEQUENCE. TSB GEOMETRY, ELEVATIONS, AND INFRASTRUCTURE IS TO BE CONSTRUCTED AS SEEN ON APPROVED GRADING AND DRAINAGE CID PLAN SHEETS.
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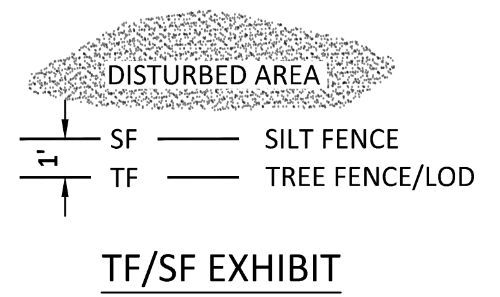
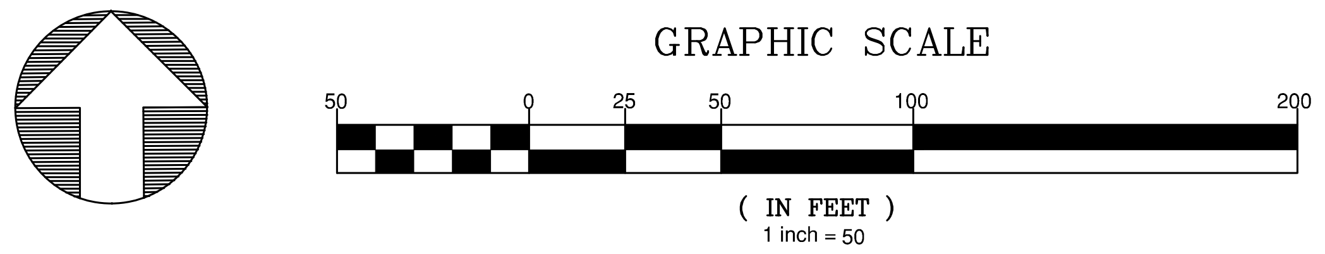
7. SEE PROJECT SCHEDULE SHEETS FOR RIP RAP CALCULATIONS.



TF/SF EXHIBIT



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Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\3.0-3.4 Erosion Control Stage 1.dwg June 2, 2025

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
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NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.06.02 14:59:41-04'00'

56528 JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NO.	DATE	REVISION:

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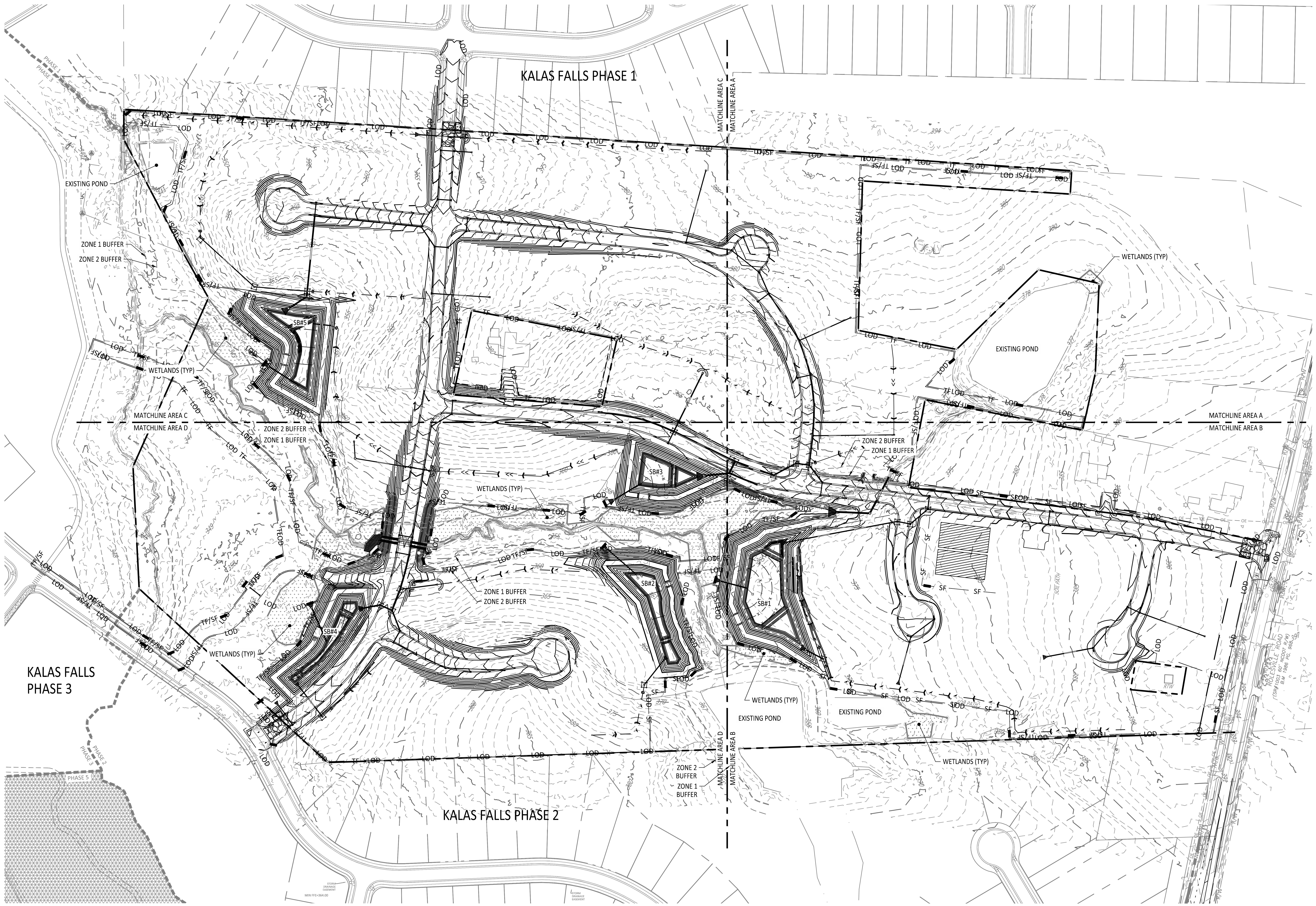
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

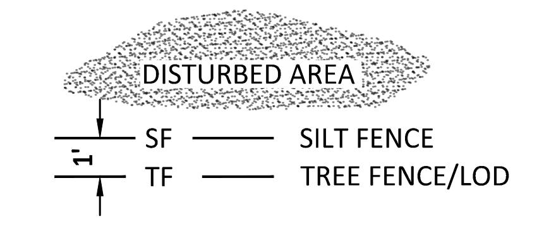
ESC STAGE 1 D

SHEET NO.:
C3.4

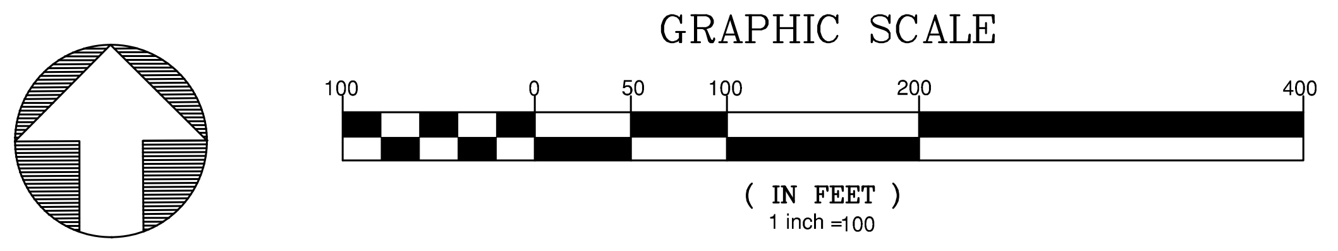


EROSION CONTROL LEGEND		REFERENCE DETAIL
——— SF ———	SILT FENCE	CD3
——— LOD ———	LIMITS OF DISTURBANCE	-
——— TF ———	TREE PROTECTION FENCE	CD1
——— TF/SF ———	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
— ➤ — ➤ —	PERMANENT DIVERSION DITCH	CD1
——— >> ———	TEMPORARY DIVERSION DITCH	CD1
▬	SILT FENCE OUTLET	CD3
▨	SEDIMENT SACK INLET PROTECTION	CD2
◠	STANDARD PIPE INLET PROTECTION	CD2
☐	GRAVEL INLET PROTECTION	CD2
⊠	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
▧	RIPRAP DISSIPATOR	CD2
—— x —— x ——	BAFFLE	CD1
▬ ▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
⌃	WATTLE	CD5
□—	SKIMMER	CD3
▣	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
▪▪▪▪▪▪▪▪	BUFFER ZONE 1 AND 2
▬ ▬ ▬ ▬	PROPOSED ROW
⁘	WETLANDS



TF/SF EXHIBIT



GENERAL NOTES:

1. SEE SHEET C7.0 FOR TEMPORARY DIVERSION DITCH SCHEDULE.
2. ACCESS TO HOMES ALONG AMAZON TRAIL SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

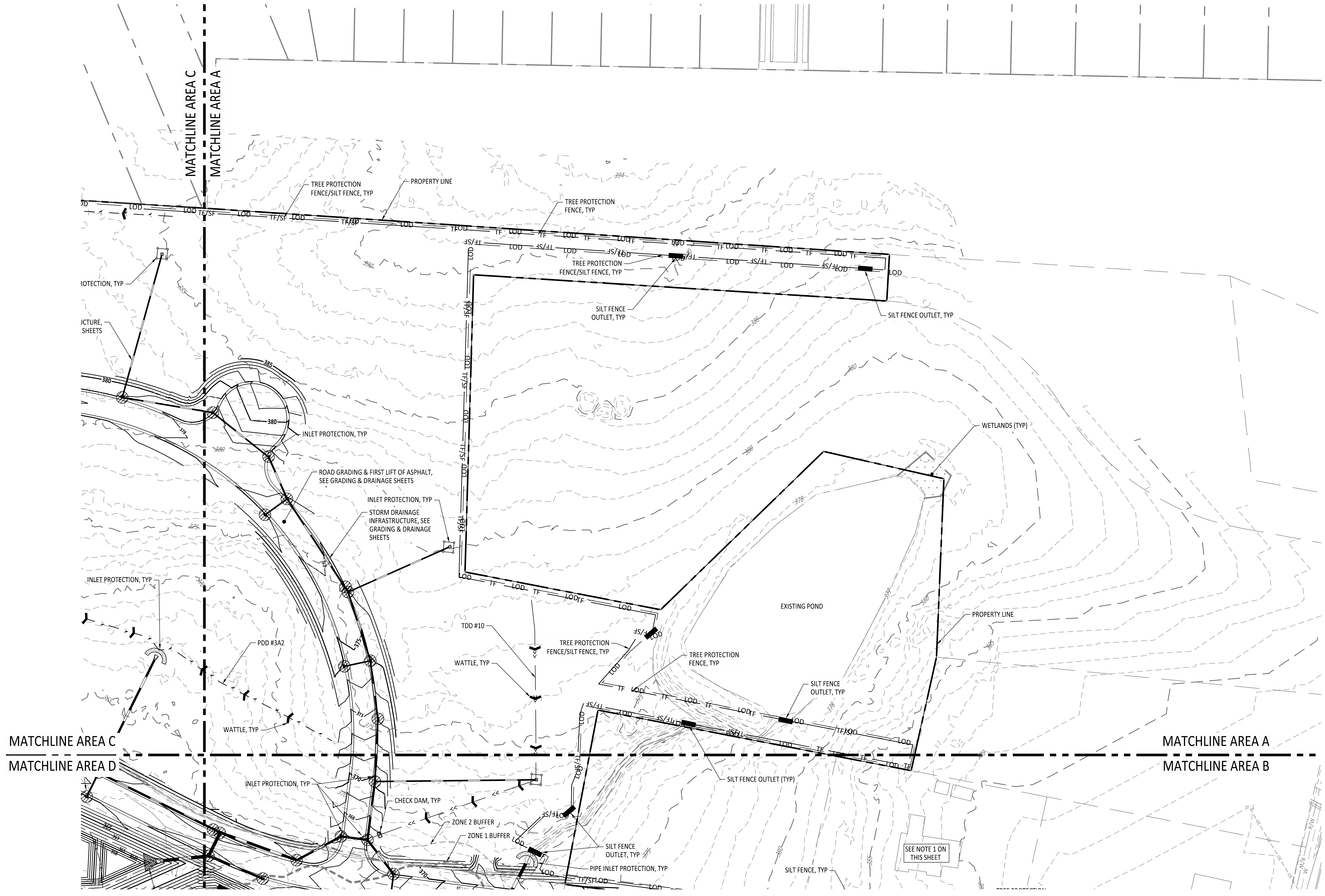
SHEET TITLE:

OVERALL ESC STAGE 2

SHEET NO.:

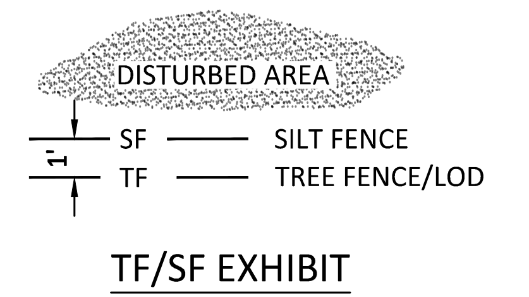
C3.5

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\3.5-3.9 Erosion Control Stage 2.dwg June 2, 2025



EROSION CONTROL LEGEND		REFERENCE DETAIL
—— SF ——	SILT FENCE	CD3
—— LOD ——	LIMITS OF DISTURBANCE	-
—— TF ——	TREE PROTECTION FENCE	CD1
—— TF/SF ——	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
— ➢ — ➢ —	PERMANENT DIVERSION DITCH	CD1
—— >> ——	TEMPORARY DIVERSION DITCH	CD1
▬	SILT FENCE OUTLET	CD3
▨	SEDIMENT SACK INLET PROTECTION	CD2
⌒	STANDARD PIPE INLET PROTECTION	CD2
□	GRAVEL INLET PROTECTION	CD2
⊠	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
▷	RIPRAP DISSIPATOR	CD2
— x — x —	BAFFLE	CD1
▬ ▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
^	WATTLE	CD5
□—	SKIMMER	CD3
▣	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
■■■■■■■■	BUFFER ZONE 1 AND 2
▬ ▬ ▬ ▬	PROPOSED ROW
⁙	WETLANDS



TF/SF EXHIBIT

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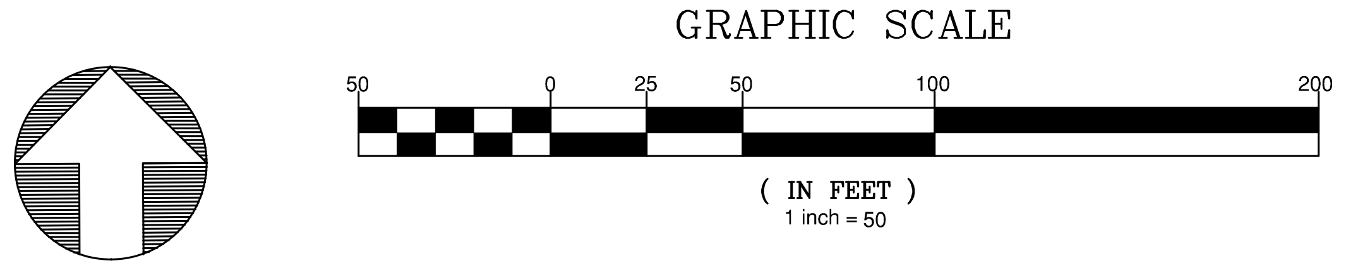
2. THE TEMPORARY SEDIMENT BASINS (TSB) ARE NOT TO BE CONVERTED TO STORMWATER CONTROL MEASURES (SCM) UNTIL PASSING INSPECTION AND GIVEN PERMISSION BY THE WAKE COUNTY INSPECTOR. SEE PROJECT CONSTRUCTION SEQUENCE.
3. SEE GRADING & DRAINAGE SHEETS FOR THE CONSTRUCTION OF ALL STORMWATER INFRASTRUCTURE.
4. SEE CULVERT CROSSING SHEET FOR INSTALLATION METHOD OF PROJECT CULVERTS BENEATH ROADWAYS.
5. CONTRACTOR TO CONSTRUCT A SANDBAG DAM ACROSS THE LINEAR WETLAND AT THE UPSTREAM AND DOWNSTREAM ENDS TO ALLOW FOR PUMP AROUND. PUMPS TO BE USED AS NEEDED.
6. SEE SCHEDULE SHEETS FOR RIP RAP AND DIVERSION DITCH SCHEDULES.



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C-3881

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Date: 2025.06.02
14:59:44-04'00'

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CONSTRUCTION

SEAL
56528
JAKOB P. KLEIN

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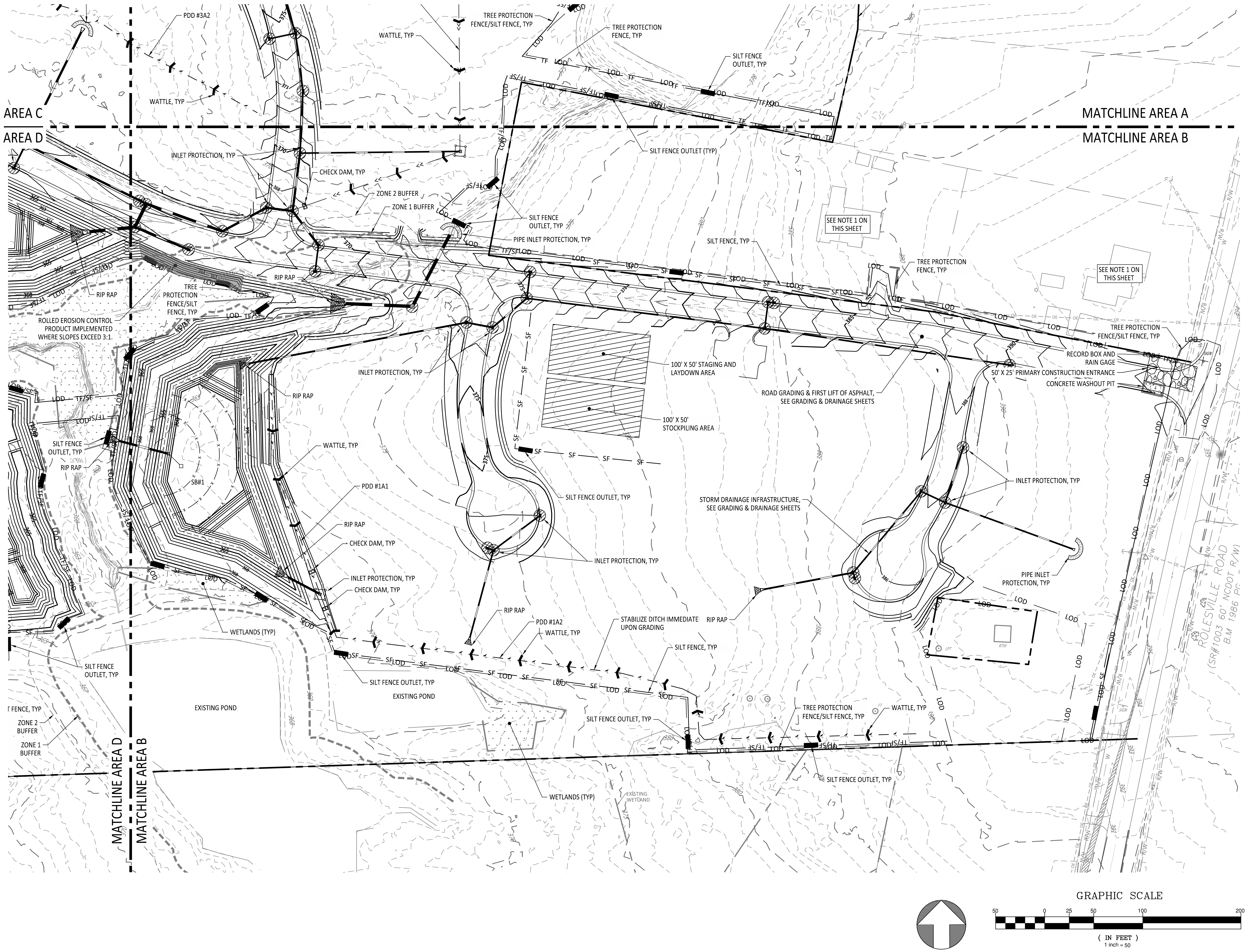
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

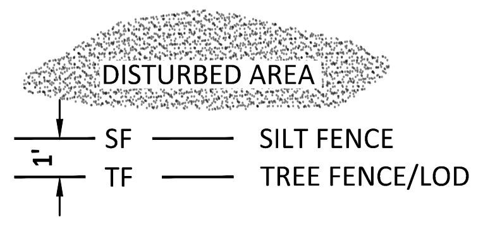
ESC STAGE 2 A

SHEET NO.:
C3.6



EROSION CONTROL LEGEND		REFERENCE DETAIL
—— SF ——	SILT FENCE	CD3
—— LOD ——	LIMITS OF DISTURBANCE	-
—— TF ——	TREE PROTECTION FENCE	CD1
—— TF/SF ——	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
— ➤ — ➤ —	PERMANENT DIVERSION DITCH	CD1
—— >> ——	TEMPORARY DIVERSION DITCH	CD1
▬	SILT FENCE OUTLET	CD3
▨	SEDIMENT SACK INLET PROTECTION	CD2
◠	STANDARD PIPE INLET PROTECTION	CD2
☐	GRAVEL INLET PROTECTION	CD2
⊠	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
▨	RIPRAP DISSIPATOR	CD2
—— x —— x ——	BAFFLE	CD1
▬ ▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
⌃	WATTLE	CD5
□—	SKIMMER	CD3
▣	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
▪▪▪▪▪▪▪▪	BUFFER ZONE 1 AND 2
━ ━ ━ ━	PROPOSED ROW
⁘	WETLANDS



TF/SF EXHIBIT

GENERAL NOTES:

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6. SEE SCHEDULE SHEETS FOR RIP RAP AND DIVERSION DITCH SCHEDULES.

AMERICAN
Engineering

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4020 Westchase Boulevard, Suite 450
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919-469-1101

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C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by
Jakob Klein
Date: 2025.06.02
14:59:45-04'00'

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CONSTRUCTION

SEAL
56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

ESC STAGE 2 B

SHEET NO.:
C3.7

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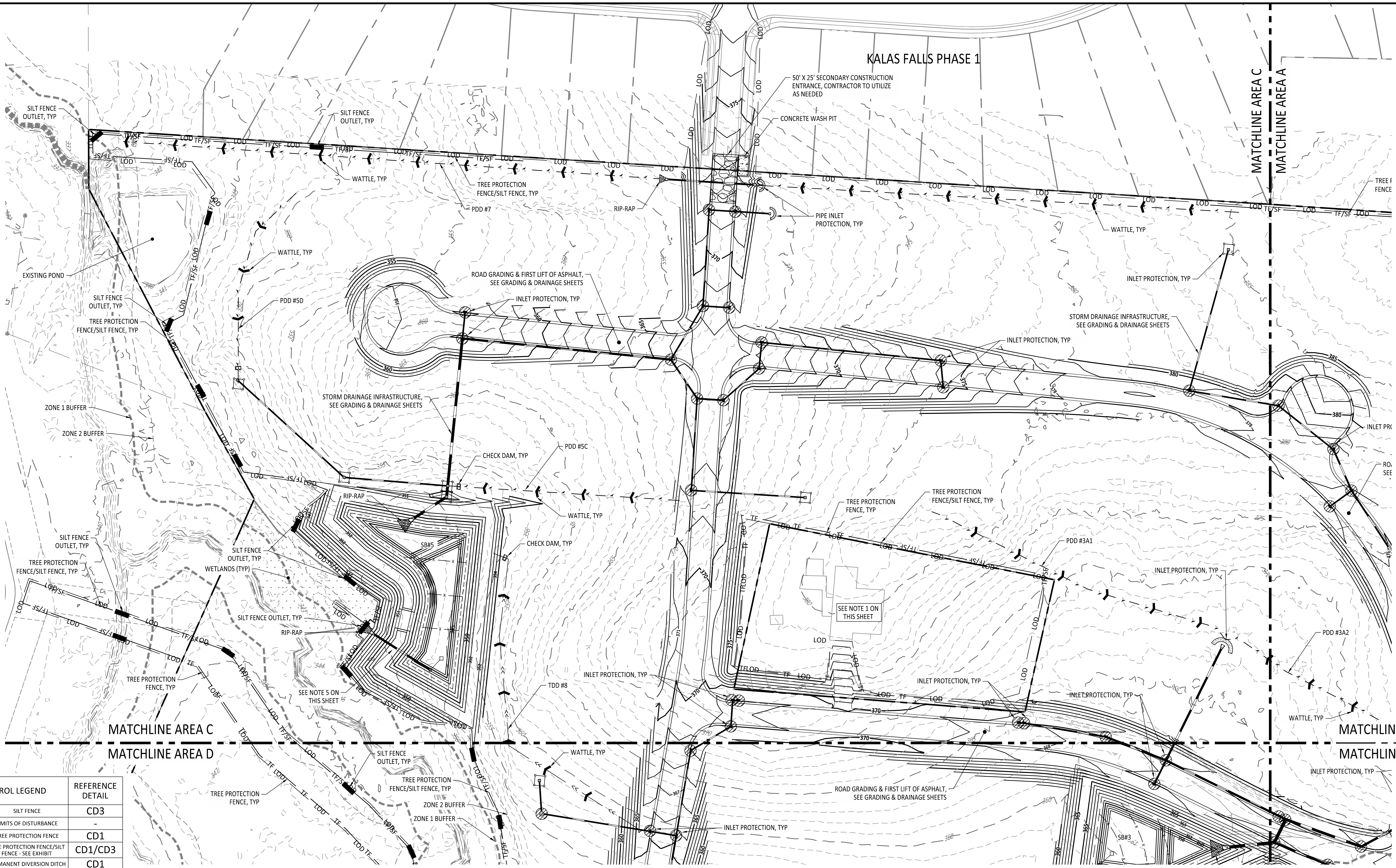
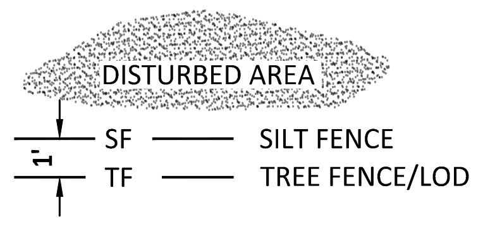
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm



EROSION CONTROL LEGEND		REFERENCE DETAIL
—— SF ——	SILT FENCE	CD3
—— LOD ——	LIMITS OF DISTURBANCE	-
—— TF ——	TREE PROTECTION FENCE	CD1
—— TF/SF ——	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
— ➤ — ➤ —	PERMANENT DIVERSION DITCH	CD1
—— >> ——	TEMPORARY DIVERSION DITCH	CD1
▬	SILT FENCE OUTLET	CD3
▨	SEDIMENT SACK INLET PROTECTION	CD2
◠	STANDARD PIPE INLET PROTECTION	CD2
□	GRAVEL INLET PROTECTION	CD2
⊠	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
▨	RIPRAP DISSIPATOR	CD2
—— x —— x ——	BAFFLE	CD1
▬ ▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
^	WATTLE	CD5
□—	SKIMMER	CD3
▤	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - - - - - -	50' NEUSE RIPARIAN BUFFER
■■■■■■■■	BUFFER ZONE 1 AND 2
━━ ━ ━ ━━	PROPOSED ROW
⁙	WETLANDS



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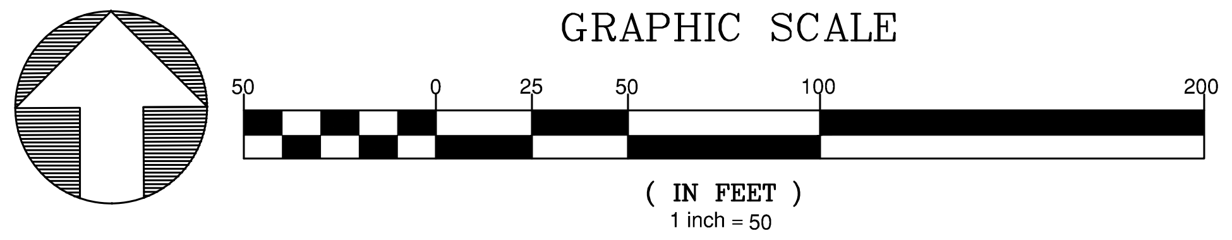

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C-3881

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SEAL 56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

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

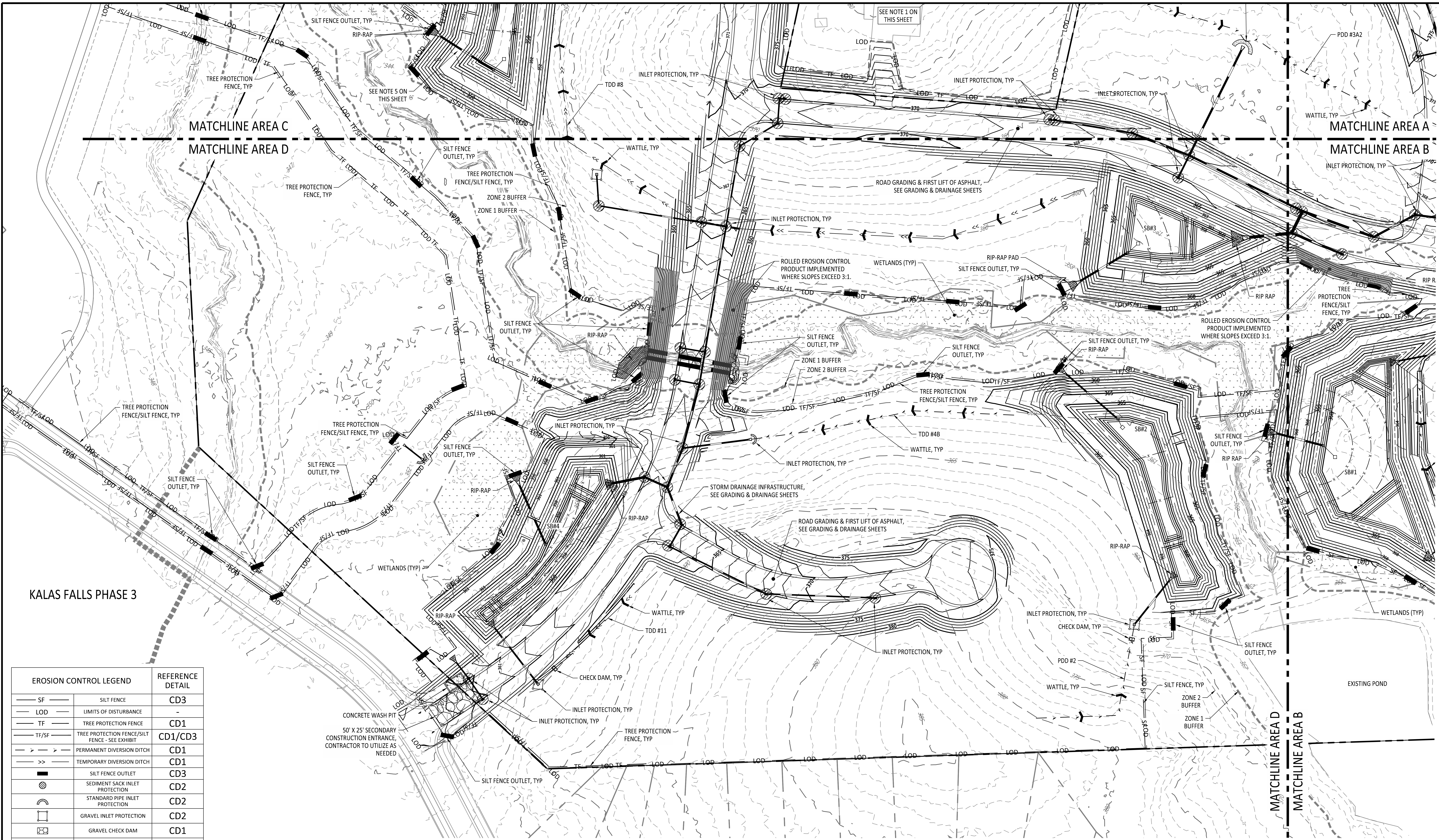
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

ESC STAGE 2 C

SHEET NO.:
C3.8

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\3.5-3.9 Erosion Control Stage 2.dwg
June 2, 2025



EROSION CONTROL LEGEND		REFERENCE DETAIL
—— SF ——	SILT FENCE	CD3
—— LOD ——	LIMITS OF DISTURBANCE	-
—— TF ——	TREE PROTECTION FENCE	CD1
—— TF/SF ——	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
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—— >> ——	TEMPORARY DIVERSION DITCH	CD1
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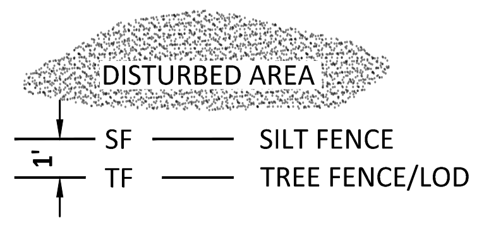
▨	SEDIMENT SACK INLET PROTECTION	CD2
⌒	STANDARD PIPE INLET PROTECTION	CD2
□	GRAVEL INLET PROTECTION	CD2
⊠	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
▨	RIPRAP DISSIPATOR	CD2
—— x —— x ——	BAFFLE	CD1
▬ ▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
^	WATTLE	CD5
□—	SKIMMER	CD3
▣	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
▪▪▪▪▪▪▪▪	BUFFER ZONE 1 AND 2
▬ ▬ ▬ ▬	PROPOSED ROW
⁞⁞⁞	WETLANDS



TF/SF EXHIBIT

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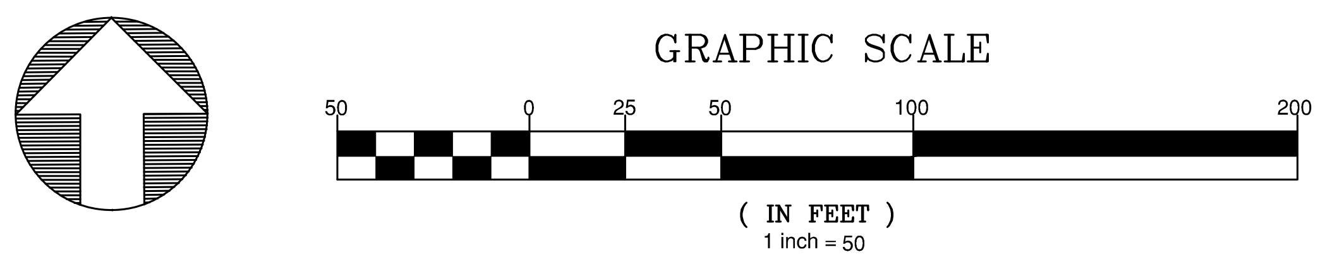

*** 3 Days Before Digging ***
North Carolina 811
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Remote Ticket Entry
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Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\3.5-3.9 Erosion Control Stage 2.dwg June 2, 2025

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919-469-1101

NORTH CAROLINA
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C-3881
CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
Date: 2025.06.02 14:59:47-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

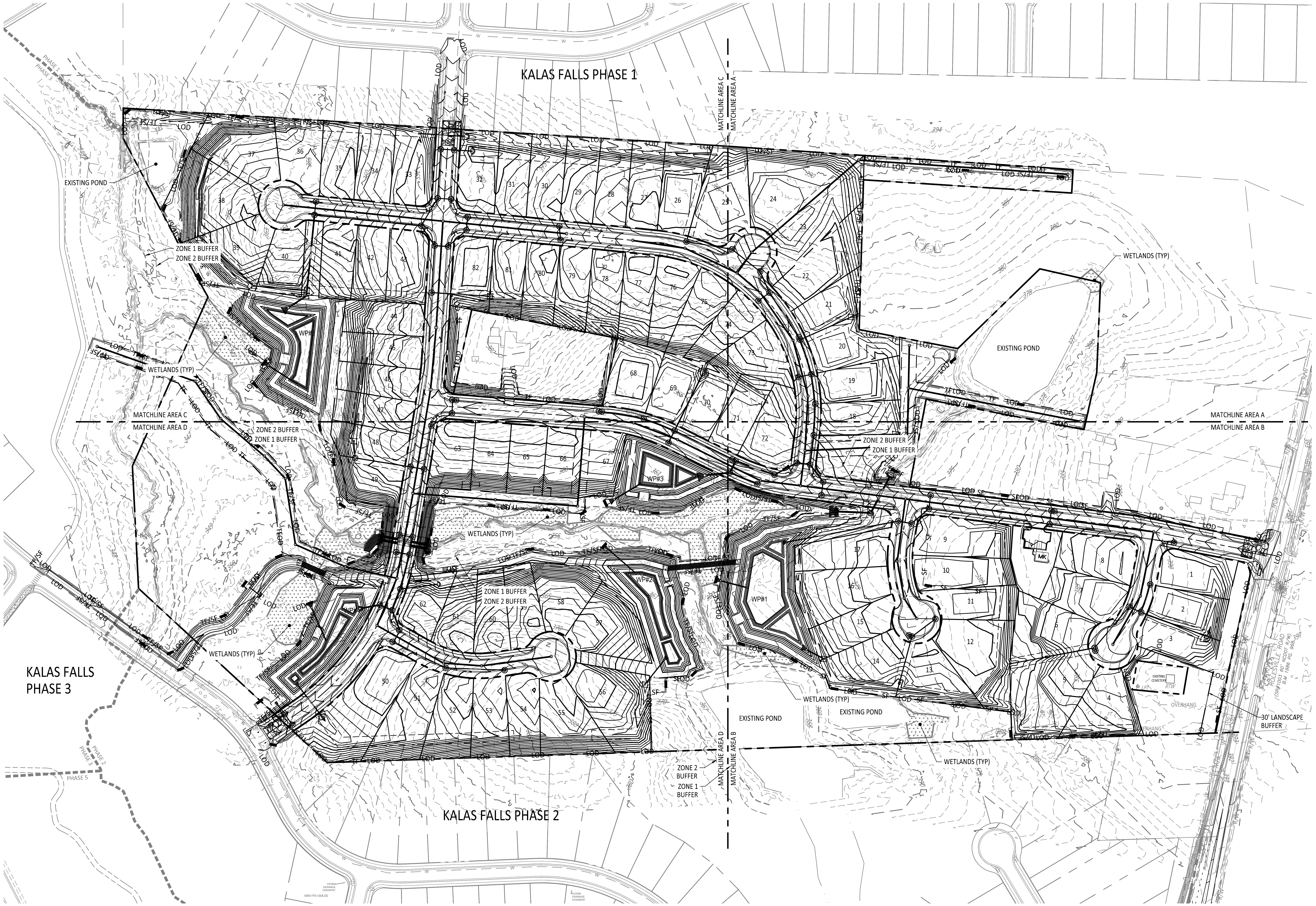
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

ESC STAGE 2 D

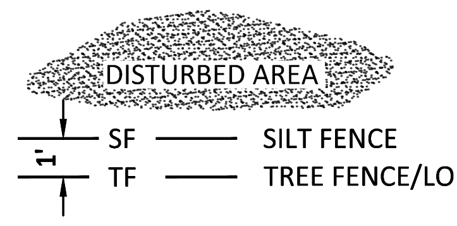
SHEET NO.:

C3.9



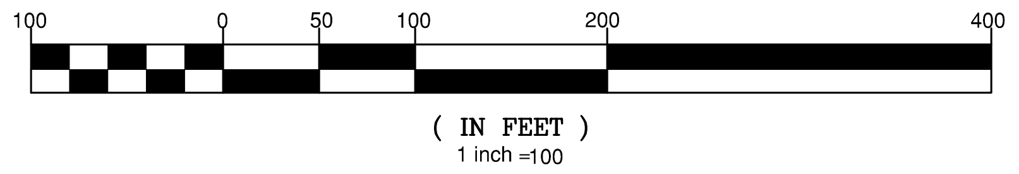
EROSION CONTROL LEGEND		REFERENCE DETAIL
—— SF ——	SILT FENCE	CD3
—— LOD ——	LIMITS OF DISTURBANCE	-
—— TF ——	TREE PROTECTION FENCE	CD1
—— TF/SF ——	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
— ➤ — ➤ —	PERMANENT DIVERSION DITCH	CD1
—— >> ——	TEMPORARY DIVERSION DITCH	CD1
▬	SILT FENCE OUTLET	CD3
▨	SEDIMENT SACK INLET PROTECTION	CD2
◠	STANDARD PIPE INLET PROTECTION	CD2
☐	GRAVEL INLET PROTECTION	CD2
⊠	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
▩	RIPRAP DISSIPATOR	CD2
— x — x —	BAFFLE	CD1
▬ ▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
⌃	WATTLE	CD5
□—	SKIMMER	CD3
▣	TEMPORARY SEDIMENT BASIN	CD3
▧	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
▪▪▪▪▪▪▪▪	BUFFER ZONE 1 AND 2
▬ ▬ ▬ ▬	PROPOSED ROW
⁚⁚⁚⁚⁚⁚	WETLANDS



TF/SF EXHIBIT

GRAPHIC SCALE



(IN FEET)
1 inch =100

GENERAL NOTES:

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Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\3.10-3.14 Erosion Control Stage 3.dwg June 2, 2025

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Raleigh, NC 27607
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SEAL
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JAKOB P. KLEIN

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

OVERALL
ESC
STAGE 3

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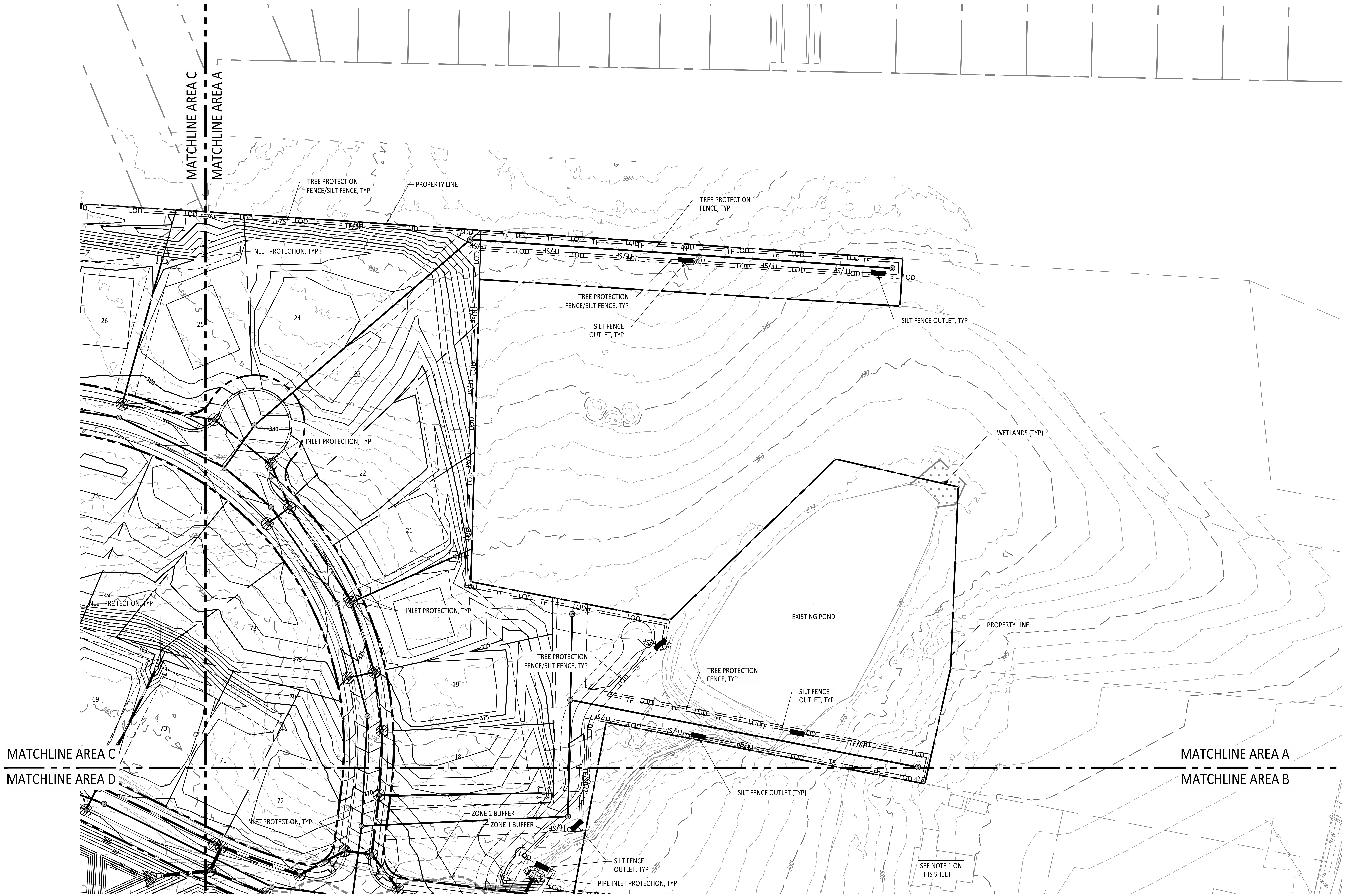
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

SHEET NO.:
C3.10



EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
➤ ➤	PERMANENT DIVERSION DITCH	CD1
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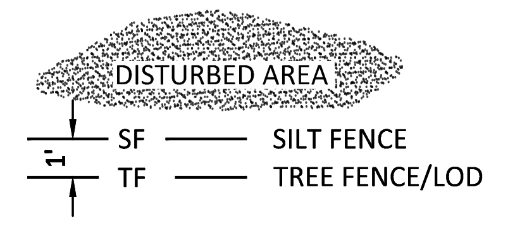
▨	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
⌃	WATTLE	CD5
□—	SKIMMER	CD3
▤	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - -	50' NEUSE RIPARIAN BUFFER
■■■■■	BUFFER ZONE 1 AND 2
▬ ▬ ▬	PROPOSED ROW
⁚⁚⁚	WETLANDS



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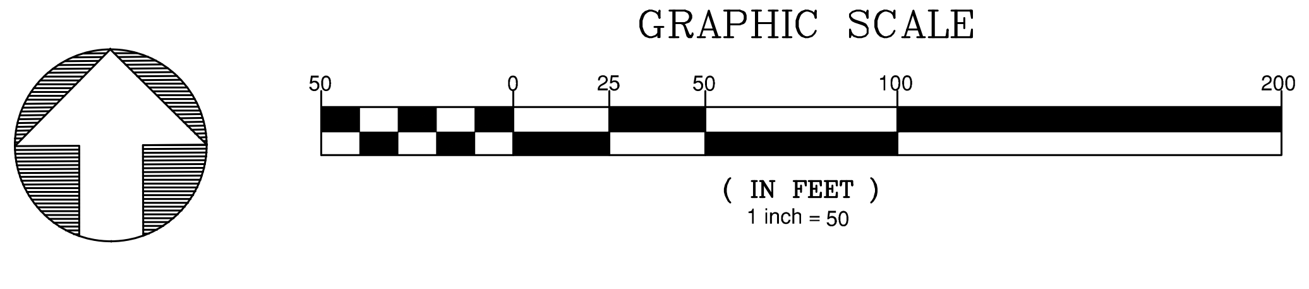

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THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

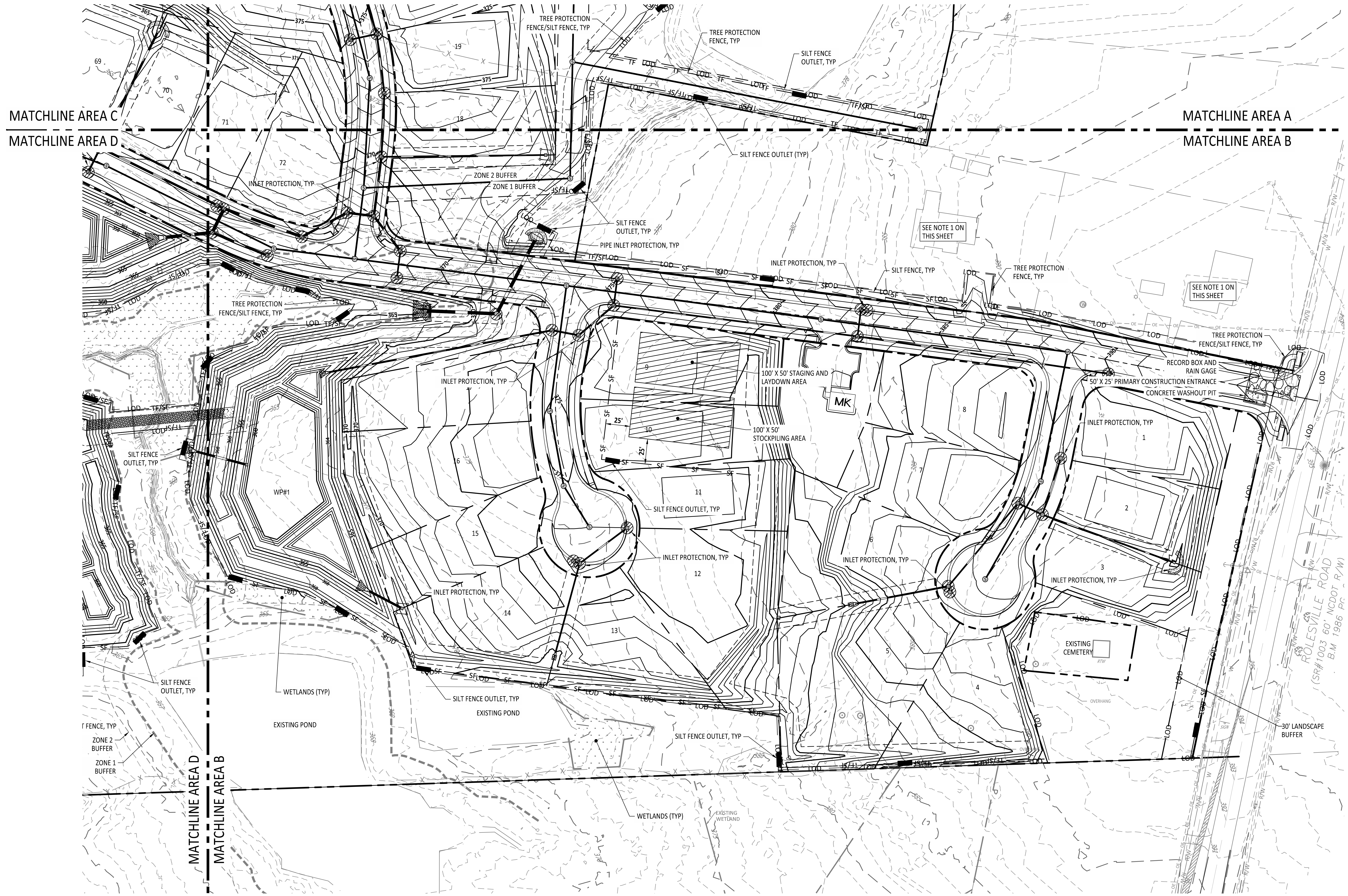
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

ESC STAGE 3 A

SHEET NO.:
C3.11

June 2, 2025
Z:\Jobs\21-002 Moody Development Tract (R21000\2)\dwg_Working Dwgs\Construction Set\3.10-3.14 Erosion Control Stage 3.dwg



EROSION CONTROL LEGEND		REFERENCE DETAIL
—— SF ——	SILT FENCE	CD3
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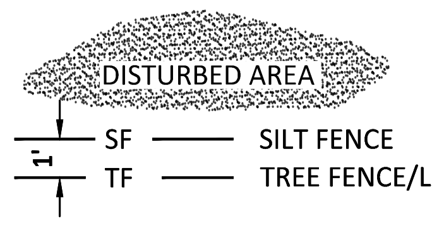
SITE LEGEND	
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
▪ ▪ ▪ ▪ ▪ ▪ ▪	BUFFER ZONE 1 AND 2
▬ ▬ ▬ ▬	PROPOSED ROW
⋯⋯⋯	WETLANDS



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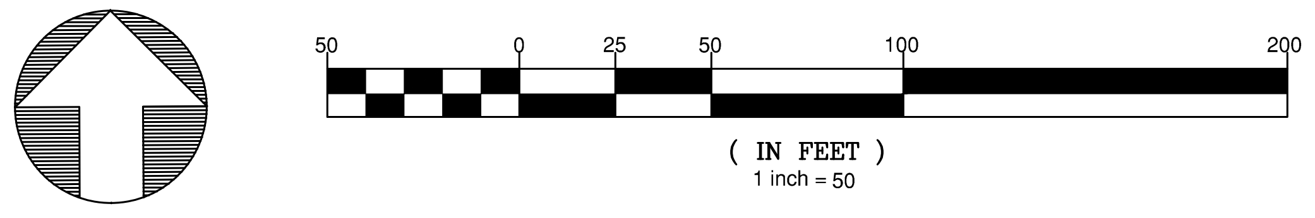
4. SEE CULVERT CROSSING SHEET FOR INSTALLATION METHOD OF PROJECT CULVERTS BENEATH ROADWAYS.
5. SEE SCHEDULE SHEETS FOR RIP RAP AND DIVERSION DITCH SCHEDULES.

GRAPHIC SCALE



(IN FEET)
1 inch = 50

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

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

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

Digitally signed by
Jakob Klein
Date: 2025.06.02
14:59:51-04'00'

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56528
JAKOB P. KLEIN

NO.	DATE	REVISION

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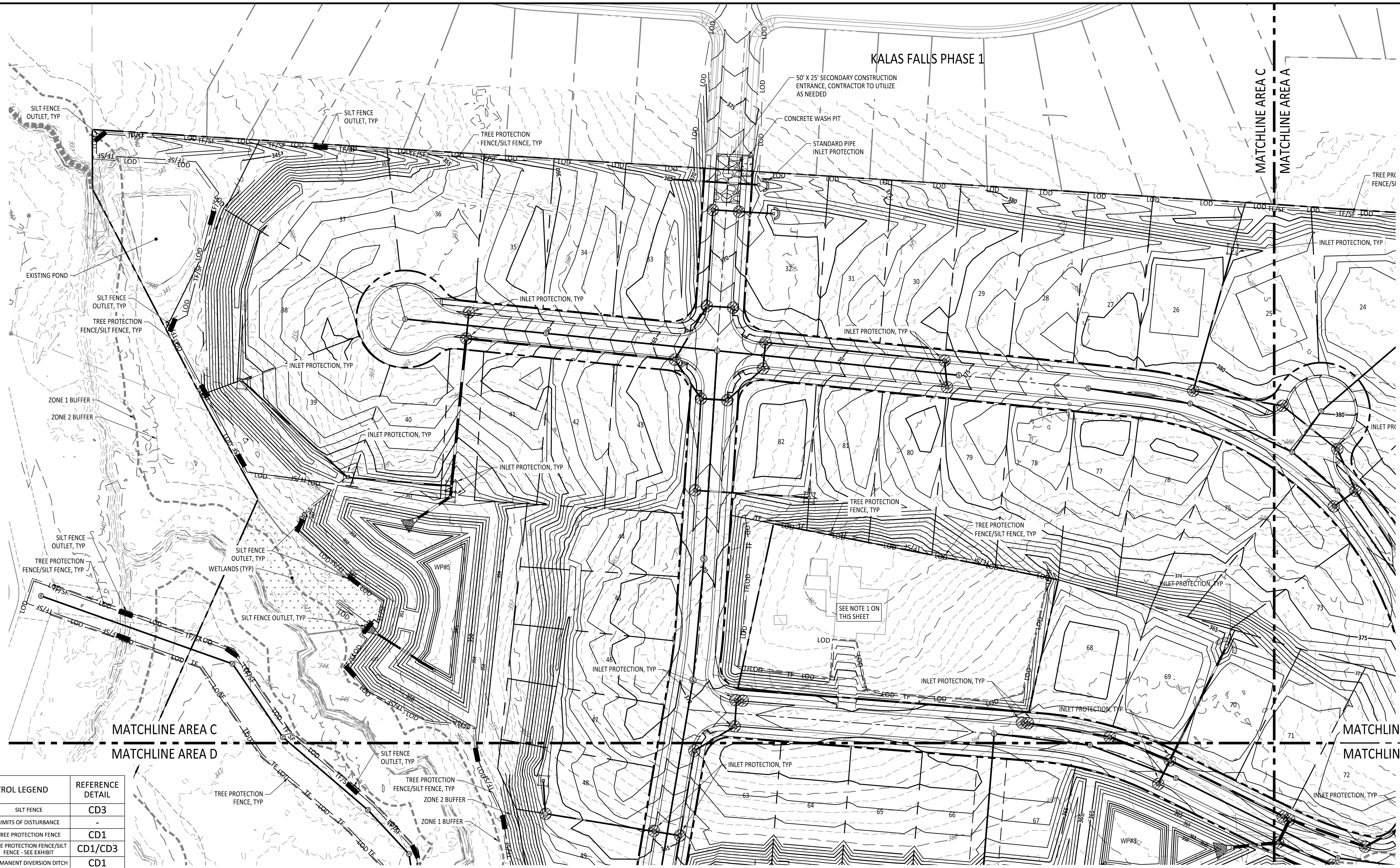
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

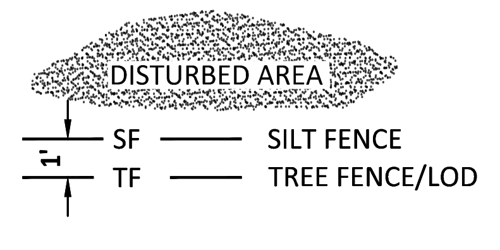
SHEET TITLE:
ESC STAGE 3 B

SHEET NO.:
C3.12

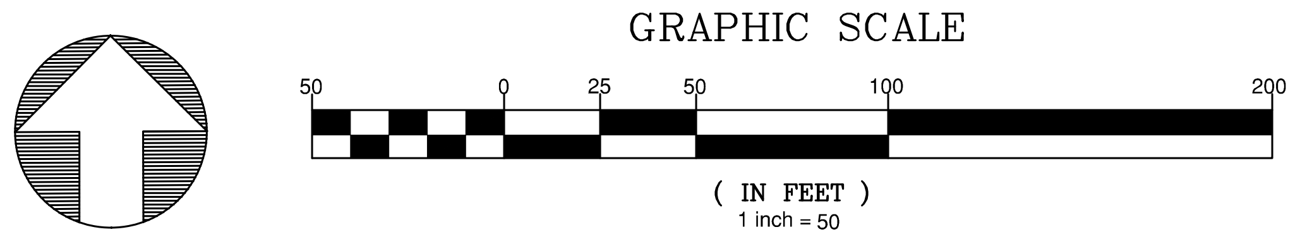


EROSION CONTROL LEGEND		REFERENCE DETAIL
SF	SILT FENCE	CD3
LOD	LIMITS OF DISTURBANCE	-
TF	TREE PROTECTION FENCE	CD1
TF/SF	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
➤ ➤	PERMANENT DIVERSION DITCH	CD1
>>	TEMPORARY DIVERSION DITCH	CD1
▬	SILT FENCE OUTLET	CD3
▨	SEDIMENT SACK INLET PROTECTION	CD2
◠	STANDARD PIPE INLET PROTECTION	CD2
□	GRAVEL INLET PROTECTION	CD2
⬡	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
▨	RIPRAP DISSIPATOR	CD2
x x	BAFFLE	CD1
▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
⌃	WATTLE	CD5
□—	SKIMMER	CD3
▤	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - -	50' NEUSE RIPARIAN BUFFER
■ ■ ■ ■	BUFFER ZONE 1 AND 2
▬ - - ▬	PROPOSED ROW
⁙	WETLANDS



TF/SF EXHIBIT



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

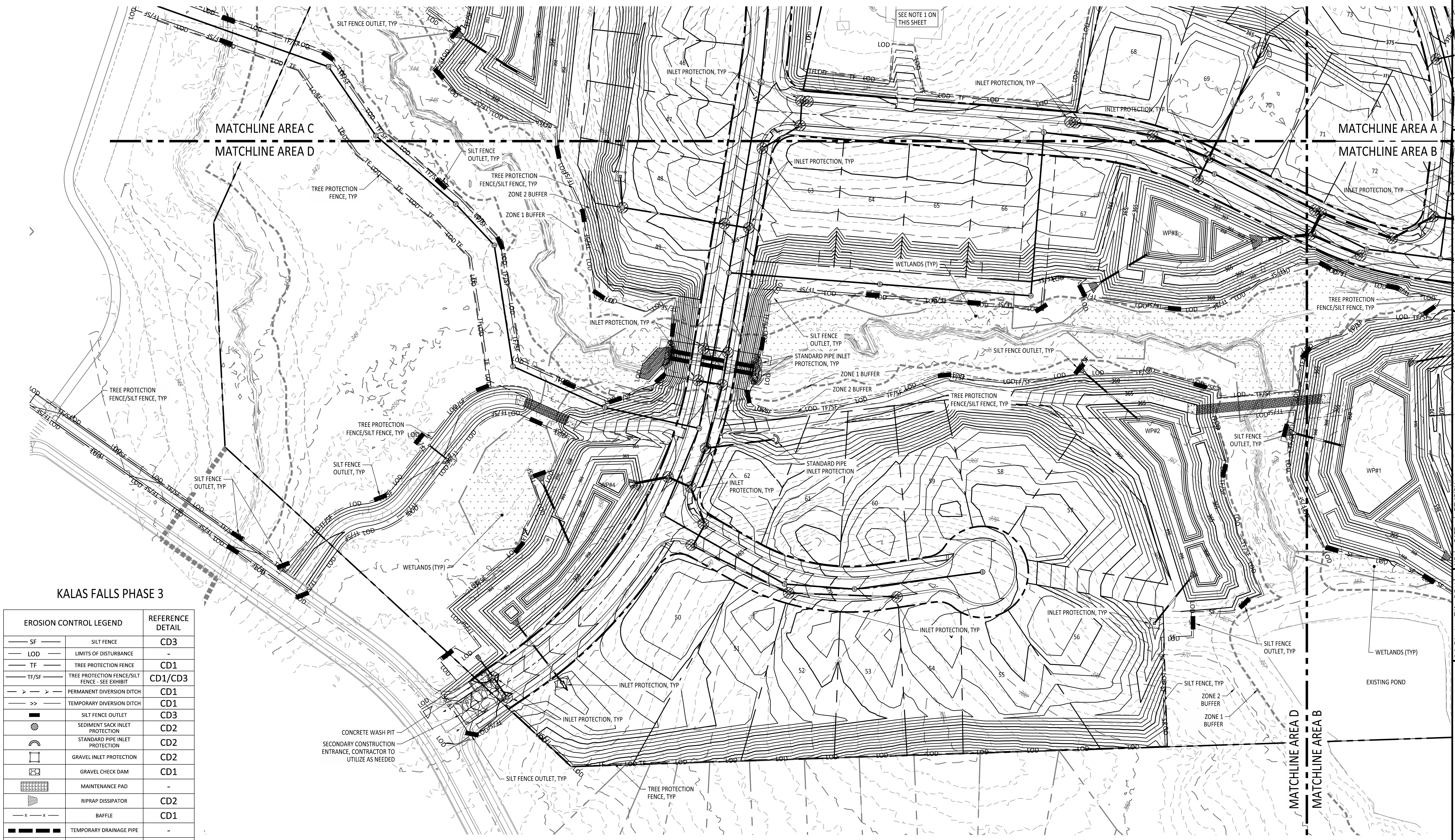
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

ESC STAGE 3 C

SHEET NO.:
C3.13

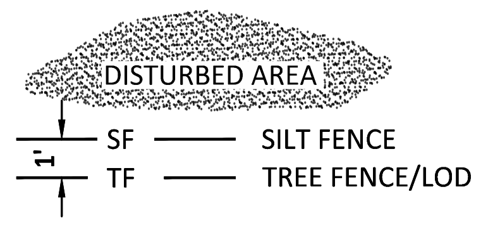
Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\3.10-3.14 Erosion Control Stage 3.dwg June 2, 2025



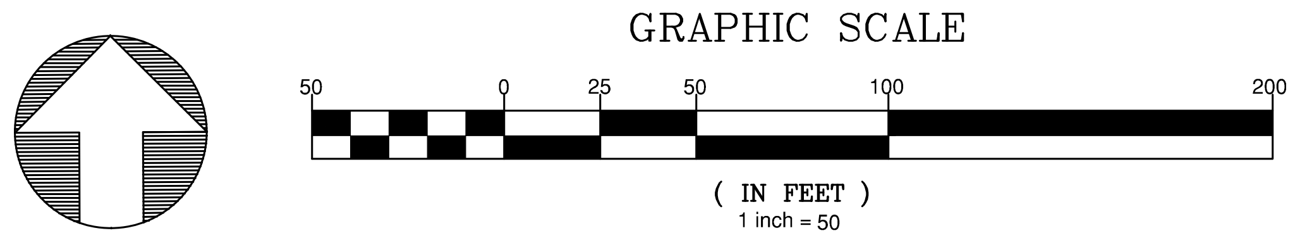
KALAS FALLS PHASE 3

EROSION CONTROL LEGEND		REFERENCE DETAIL
—— SF ——	SILT FENCE	CD3
—— LOD ——	LIMITS OF DISTURBANCE	-
—— TF ——	TREE PROTECTION FENCE	CD1
—— TF/SF ——	TREE PROTECTION FENCE/SILT FENCE - SEE EXHIBIT	CD1/CD3
— ➢ — ➢ —	PERMANENT DIVERSION DITCH	CD1
—— >> ——	TEMPORARY DIVERSION DITCH	CD1
▬	SILT FENCE OUTLET	CD3
▨	SEDIMENT SACK INLET PROTECTION	CD2
⌒	STANDARD PIPE INLET PROTECTION	CD2
□	GRAVEL INLET PROTECTION	CD2
⬡	GRAVEL CHECK DAM	CD1
▦	MAINTENANCE PAD	-
⬡	RIPRAP DISSIPATOR	CD2
—— x —— x ——	BAFFLE	CD1
▬ ▬ ▬ ▬	TEMPORARY DRAINAGE PIPE	-
^	WATTLE	CD5
□—	SKIMMER	CD3
▣	TEMPORARY SEDIMENT BASIN	CD3
▨	STAGING AND LAYDOWN AREA	-

SITE LEGEND	
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
■ ■ ■ ■ ■ ■ ■	BUFFER ZONE 1 AND 2
▬ ▬ ▬ ▬	PROPOSED ROW
⁚⁚⁚	WETLANDS



TF/SF EXHIBIT



GRAPHIC SCALE

(IN FEET)
1 inch = 50

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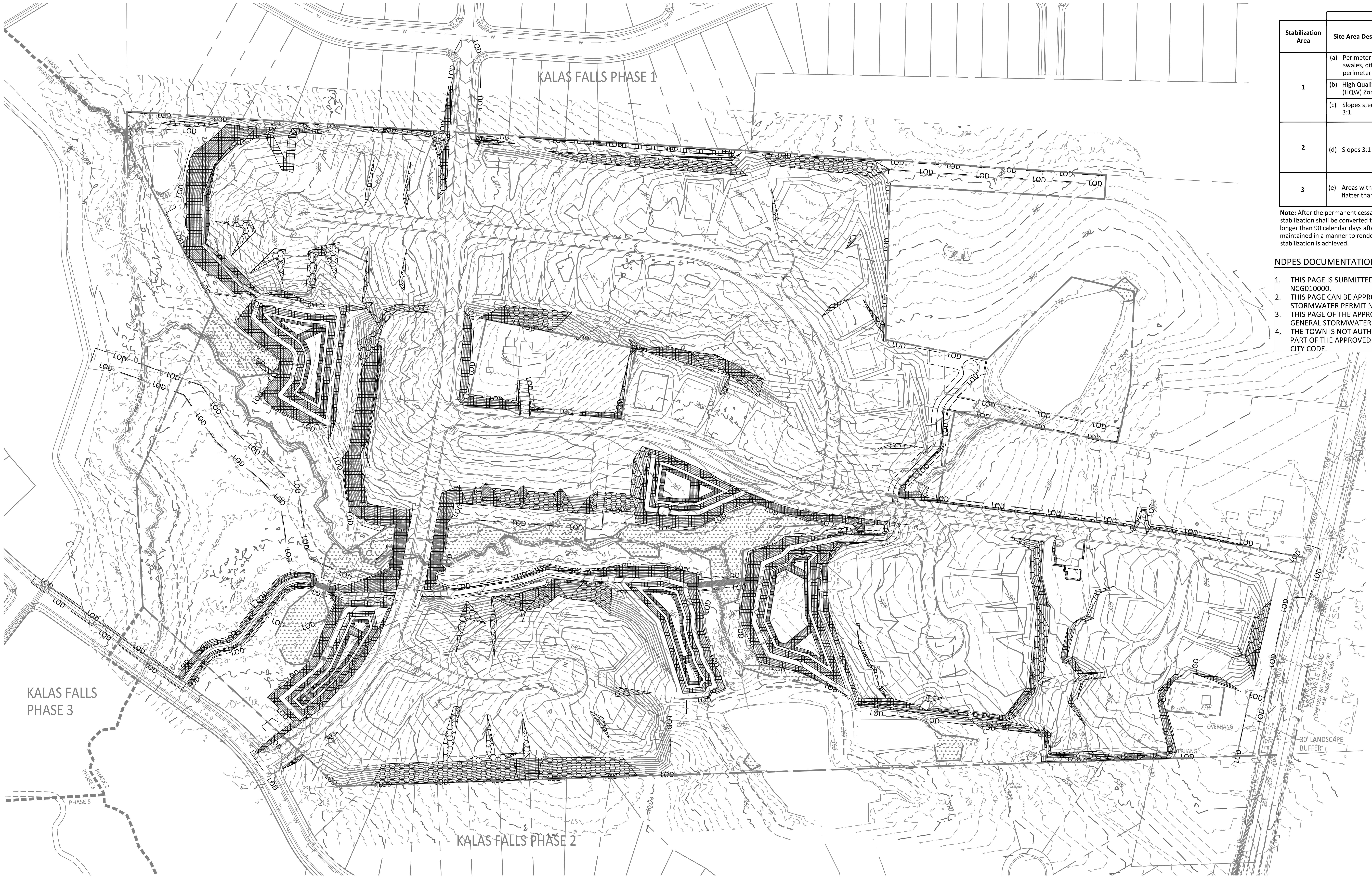
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

ESC STAGE 3 D

SHEET NO.:
C3.14



Stabilization Area	Required Ground Stabilization Timeframes Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
1	(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
	(b) High Quality Water (HQW) Zones	7	None
	(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
2	(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
3	(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

NDPES DOCUMENTATION NOTES

1. THIS PAGE IS SUBMITTED TO COMPLY WITH THE NPDES GENERAL STORMWATER PERMIT NCG010000.
2. THIS PAGE CAN BE APPROVED BY THE TOWN PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
3. THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
4. THE TOWN IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT A PART OF THE APPROVED PLANS FOR PURPOSES OF ENFORCEMENT ACTION UNDER THE CITY CODE.

NPDES STABILIZATION LEGEND	
▦	NPDES STABILIZATION AREA 1
⬡	NPDES STABILIZATION AREA 2
☐	NPDES STABILIZATION AREA 3

SEEDING SCHEDULE

SHOULDERS, SIDE DITCHES, SLOPES
(Maximum 3:1)

Date	Type*	Planting Rate
Aug 15 - Nov 1	Tall Fescue or Hard Fescue	300 lb./acre
Nov 1 - Mar 1	Tall Fescue and Abriuzzi Rye or Annual Rye	300 lb./acre
Mar 1 - Apr 15	Tall Fescue or Hard Fescue	300 lb./acre
Apr 15 - June 30	Hulled common Bermuda grass, Weeping Love Grass	25 lb./acre
July 15 - Aug 15	Tall Fescue and ***Browntop Millet ***or Sorghum-Sudan Hybrids	35 lb./acre

SHOULDERS, SIDE DITCHES, SLOPES
Slopes (3:1 and 2:1) (not mowed)

Date	Type*	Planting Rate
Mar 1 - Apr 15	Add Tall Fescue or	120 lb./acre
Mar 1 - June 30	Add Weeping Love Grass or	10 lb./acre
Mar 1 - June 30	Add Hulled Common Bermuda grass	25 lb./acre
June 1 - Sept 1	***Tall Fescue and ***Browntop Millet ***or Sorghum-Sudan Hybrids	120 lb./acre 35 lb./acre 30 lb./acre
Sept 1 - Mar 1	Tall Fescue Add Abruzzi Rye or Annual Rye	120 lb./acre 25 lb./acre

NOTES:

Consult Erosion Control Officer or NRCS for additional alternatives for vegetating denuded areas. The above vegetation rates are those which do well under local conditions; other seeding rate combinations are possible.

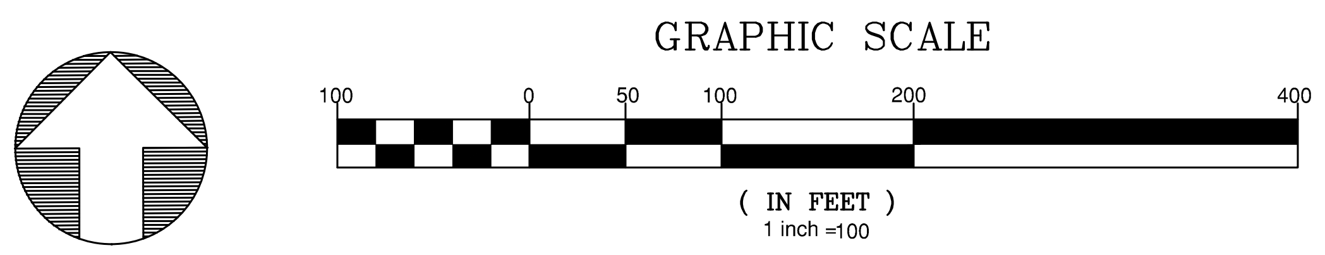
***Temporary - Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow over 12 inches in height before mowing to keep fescue from being shaded out.

*Bahia grass shall not be used in City maintained areas.

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6-INCH DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW *).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, RE-ESTABLISHED FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

*APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS)
FERTILIZER - 1,000 LB/ACRE - 10-10-10
SUPERPHOSPHATE - 500 LB/ACRE - 20% ANALYSIS
MULCH - 2 TONS/ACRE - SMALL GRAIN STRAW
ANCHOR - ASPHALT EMULSION @ 300 GALS/ACRE



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CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

NPDES PLAN

SHEET NO.:

C3.15

June 2, 2025
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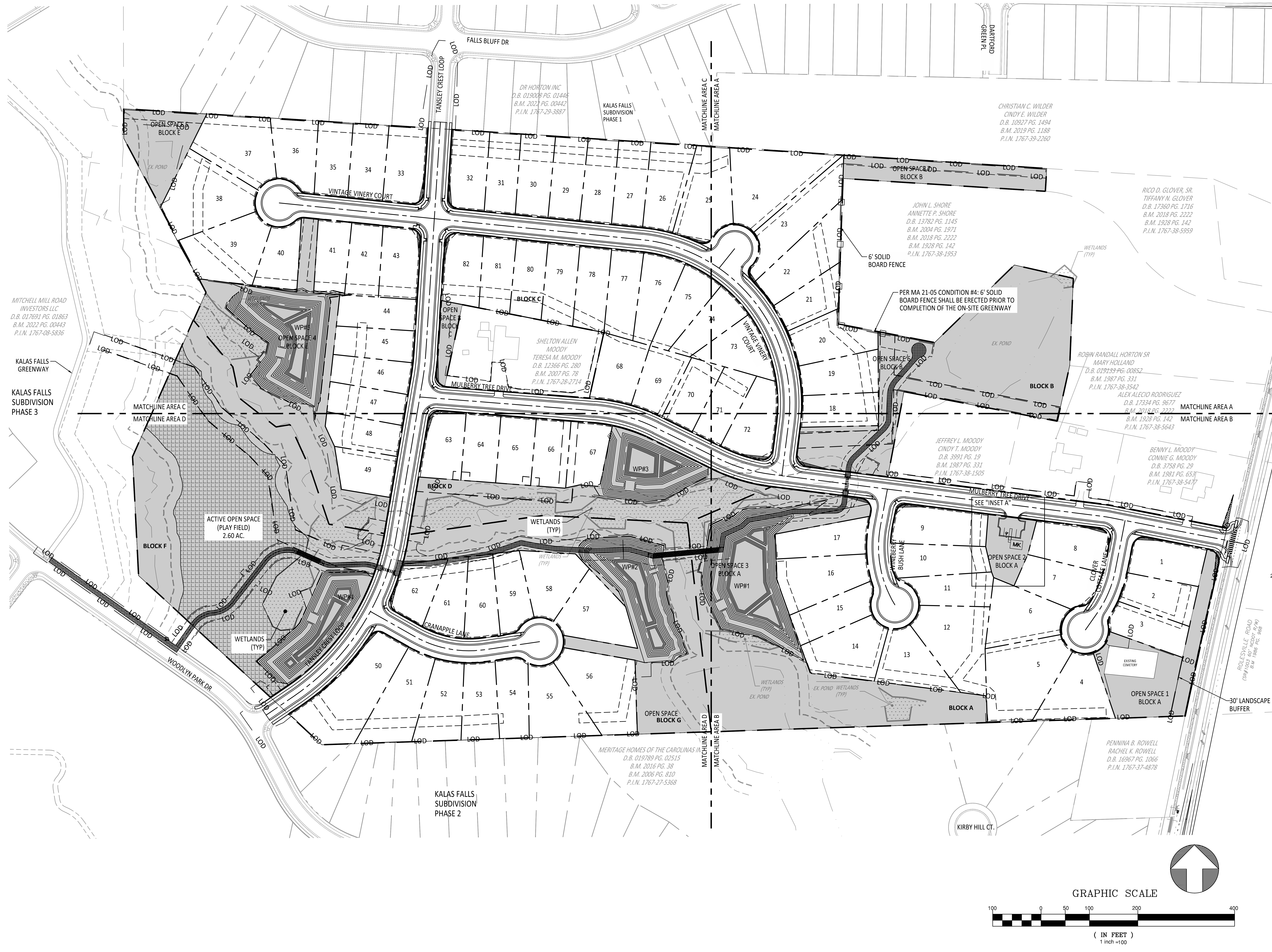
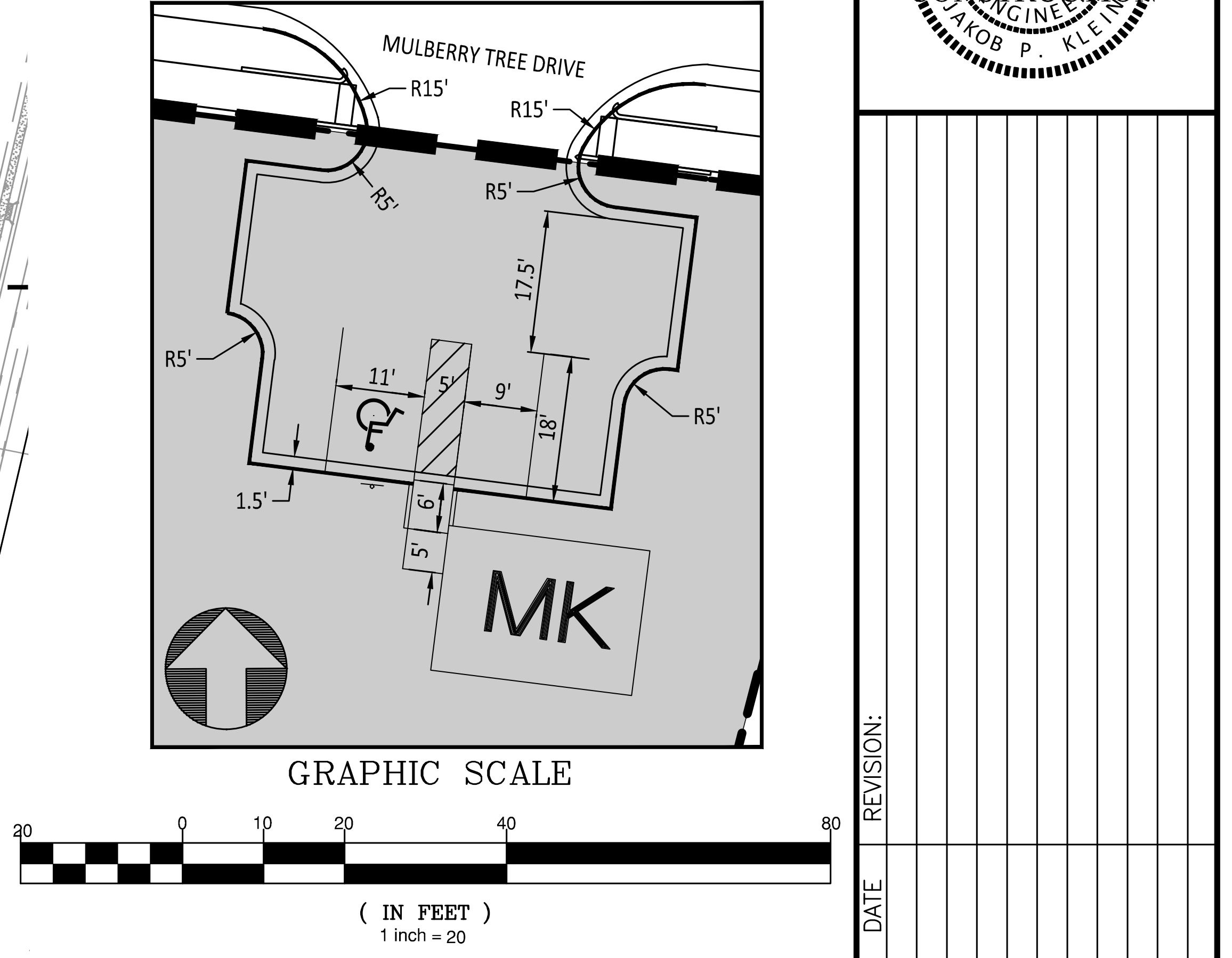


SITE LEGEND	
▨	OPEN SPACE
▦	EXISTING WETLANDS
(MK)	MAIL KIOSK
— - - —	LOT LINES
	SETBACK
━ ━ ━ ━	PROPOSED ROW
———	PROPOSED EOP
—— – ——	PROPOSED CENTERLINE
———	PROPOSED BACK OF CURB
- - - - - - - -	50' NEUSE RIPARIAN BUFFER
▬ ▬ ▬ ▬	BUFFER ZONE 1 AND 2
—··—··—	TOP OF CREEK
	PROPOSED SCM
—□——□—	PROPOSED FENCE
◢	SIGHT TRIANGLE

INSET A



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

NOTES:

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

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ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
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DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

OVERALL SITE PLAN

SHEET NO.:

C4.0

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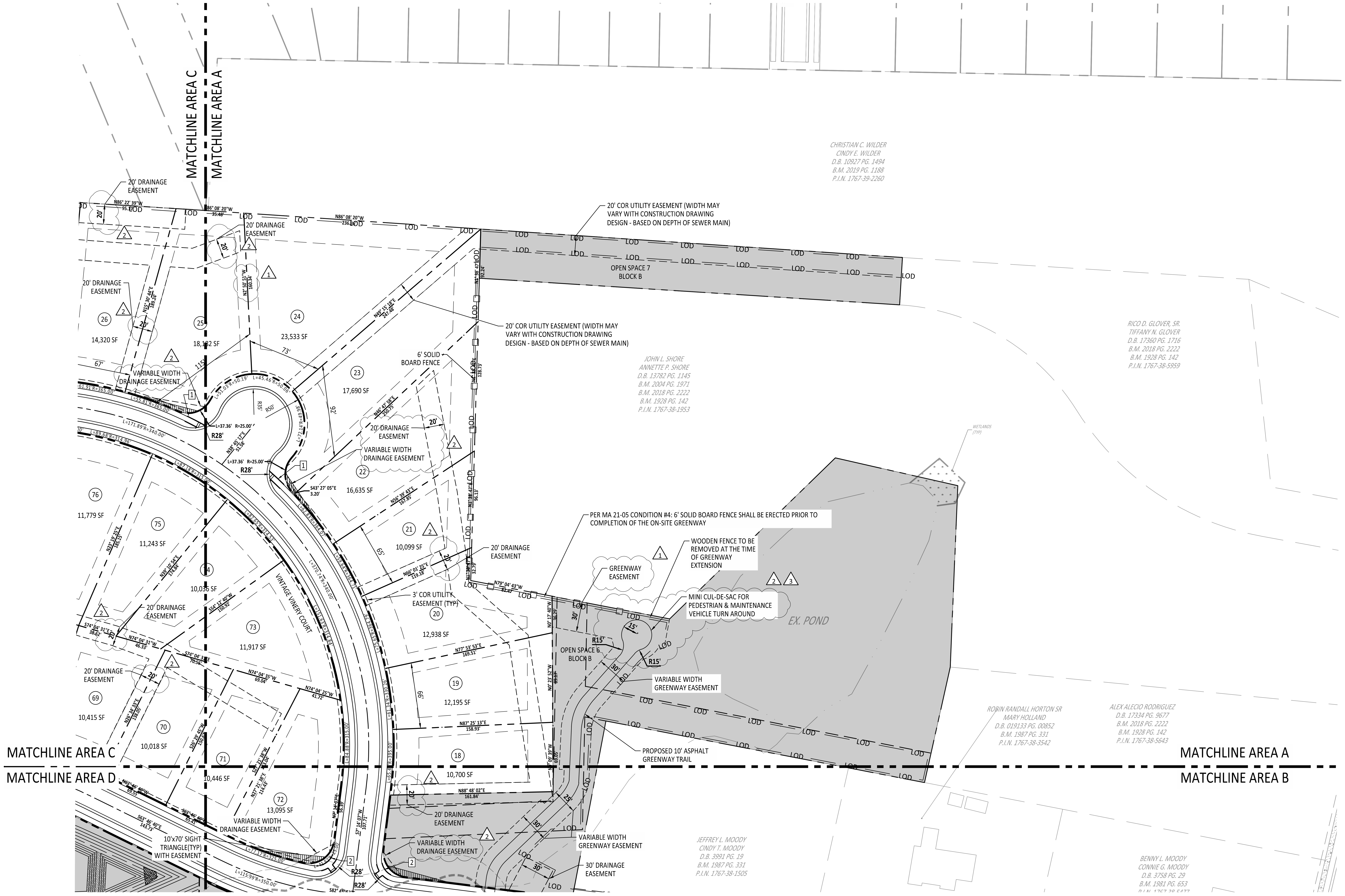

LOT INFORMATION	
	SETBACK LINES
MIN LOT WIDTH	65'
FRONT SETBACK	25'
FRONT SETBACK	25'
SIDE SETBACK	10'
CORNER SETBACK	25'

* SEE LOT 1 FOR TYPICAL SETBACK DIMENSION

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

KEYNOTE LEGEND:

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

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

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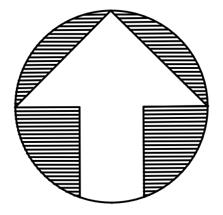

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THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

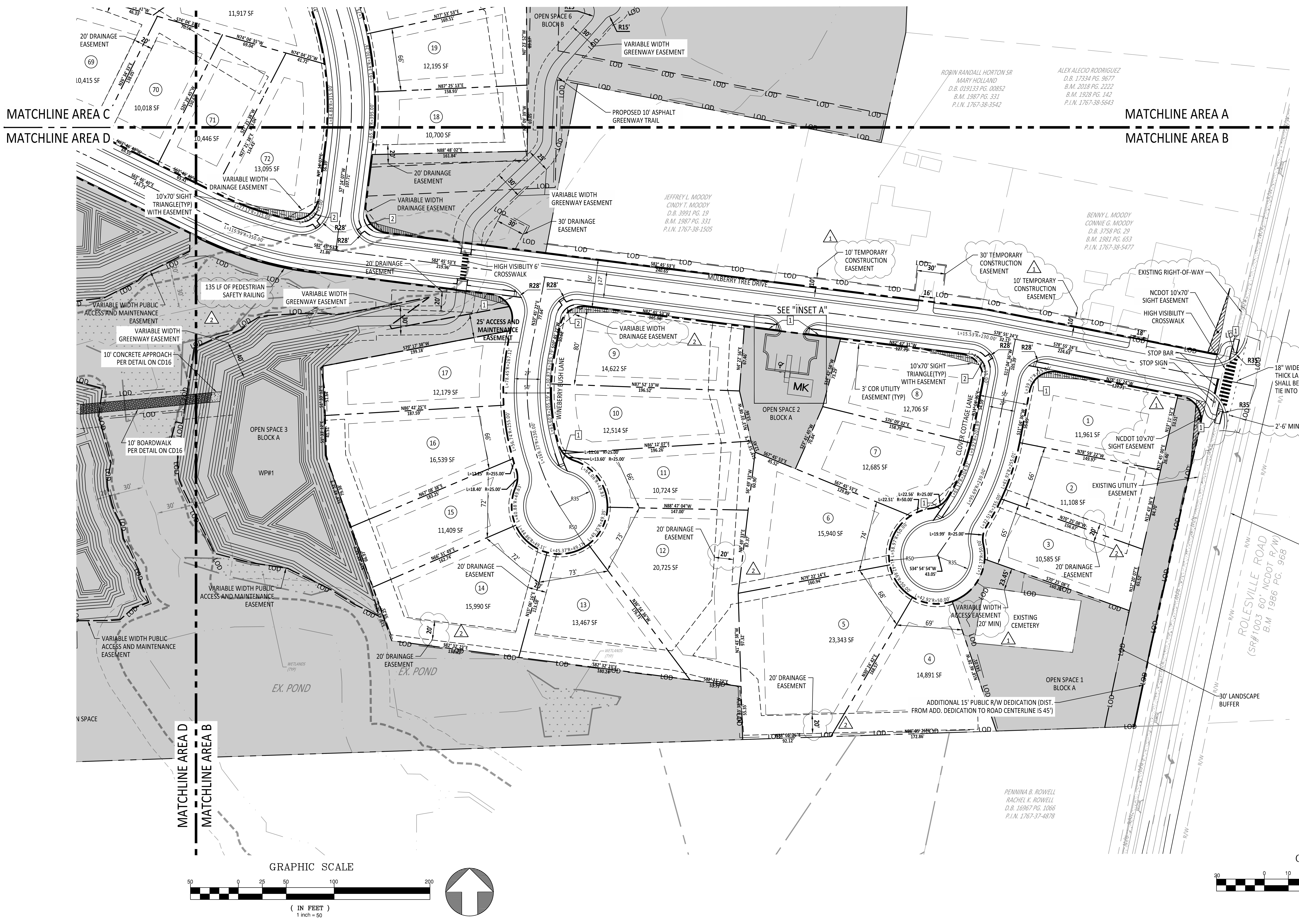
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

SITE PLAN A

SHEET NO.:
C4.1

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg June 2, 2025


MATCHLINE AREA C
MATCHLINE AREA D
MATCHLINE AREA A
MATCHLINE AREA B
MATCHLINE AREA D
MATCHLINE AREA B
MULBERRY TREE DRIVE
WINEBERRY BUSH LANE
CLOVER COTTAGE LANE
ROLESVILLE ROAD (SR# 1003 60' NCDOT R/W) B.M. 1986 PG. 968
SEE "INSET A"
OPEN SPACE 1 BLOCK A
OPEN SPACE 2 BLOCK A
OPEN SPACE 3 BLOCK A
OPEN SPACE 6 BLOCK B
WP#1
EX. POND
EXISTING CEMETERY
MK
1 11,961 SF
2 11,108 SF
3 10,585 SF
4 14,891 SF
5 23,343 SF
6 15,940 SF
7 12,685 SF
8 12,706 SF
9 14,622 SF
10 12,514 SF
11 10,724 SF
12 20,725 SF
13 13,467 SF
14 15,990 SF
15 11,409 SF
16 16,539 SF
17 12,179 SF
18 10,700 SF
19 12,195 SF
69 10,415 SF
70 10,018 SF
71 10,446 SF
72 13,095 SF
11,917 SF
20' DRAINAGE EASEMENT
VARIABLE WIDTH DRAINAGE EASEMENT
10'x70' SIGHT TRIANGLE(TYP) WITH EASEMENT
VARIABLE WIDTH GREENWAY EASEMENT
PROPOSED 10' ASPHALT GREENWAY TRAIL
30' DRAINAGE EASEMENT
HIGH VISIBILITY 6' CROSSWALK
135 LF OF PEDESTRIAN SAFETY RAILING
VARIABLE WIDTH PUBLIC ACCESS AND MAINTENANCE EASEMENT
10' CONCRETE APPROACH PER DETAIL ON CD16
10' BOARDWALK PER DETAIL ON CD16
25' ACCESS AND MAINTENANCE EASEMENT
10' TEMPORARY CONSTRUCTION EASEMENT
30' TEMPORARY CONSTRUCTION EASEMENT
3' COR UTILITY EASEMENT (TYP)
EXISTING RIGHT-OF-WAY
NCDOT 10'x70' SIGHT EASEMENT
HIGH VISIBILITY CROSSWALK
STOP BAR
STOP SIGN
18" WIDE BY 1.5" THICK LAP JOINT SHALL BE USED TO TIE INTO ROAD
2'-6' MINI-SKIP LINE
NCDOT 10'x70' SIGHT EASEMENT
EXISTING UTILITY EASEMENT
VARIABLE WIDTH ACCESS EASEMENT (20' MIN)
30' LANDSCAPE BUFFER
ADDITIONAL 15' PUBLIC R/W DEDICATION (DIST. FROM ADD. DEDICATION TO ROAD CENTERLINE IS 45')
LEFT TURN LANE TO BE PROVIDED FOR THIS PROJECT. (DESIGNED WITH SEPARATE PROJECT)
ROBIN RANDALL HORTON SR MARY HOLLAND D.B. 019133 PG. 00852 B.M. 1987 PG. 331 P.I.N. 1767-38-3542
ALEX ALECIO RODRIGUEZ D.B. 17334 PG. 9677 B.M. 2018 PG. 2222 B.M. 1928 PG. 142 P.I.N. 1767-38-5643
JEFFREY L. MOODY CINDY T. MOODY D.B. 3991 PG. 19 B.M. 1987 PG. 331 P.I.N. 1767-38-1505
BENNY L. MOODY CONNIE G. MOODY D.B. 3758 PG. 29 B.M. 1981 PG. 653 P.I.N. 1767-38-5477
PENNINA B. ROWELL RACHEL K. ROWELL D.B. 16967 PG. 1066 P.I.N. 1767-37-4878
LOD
R28'
R35'
R/W
GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50

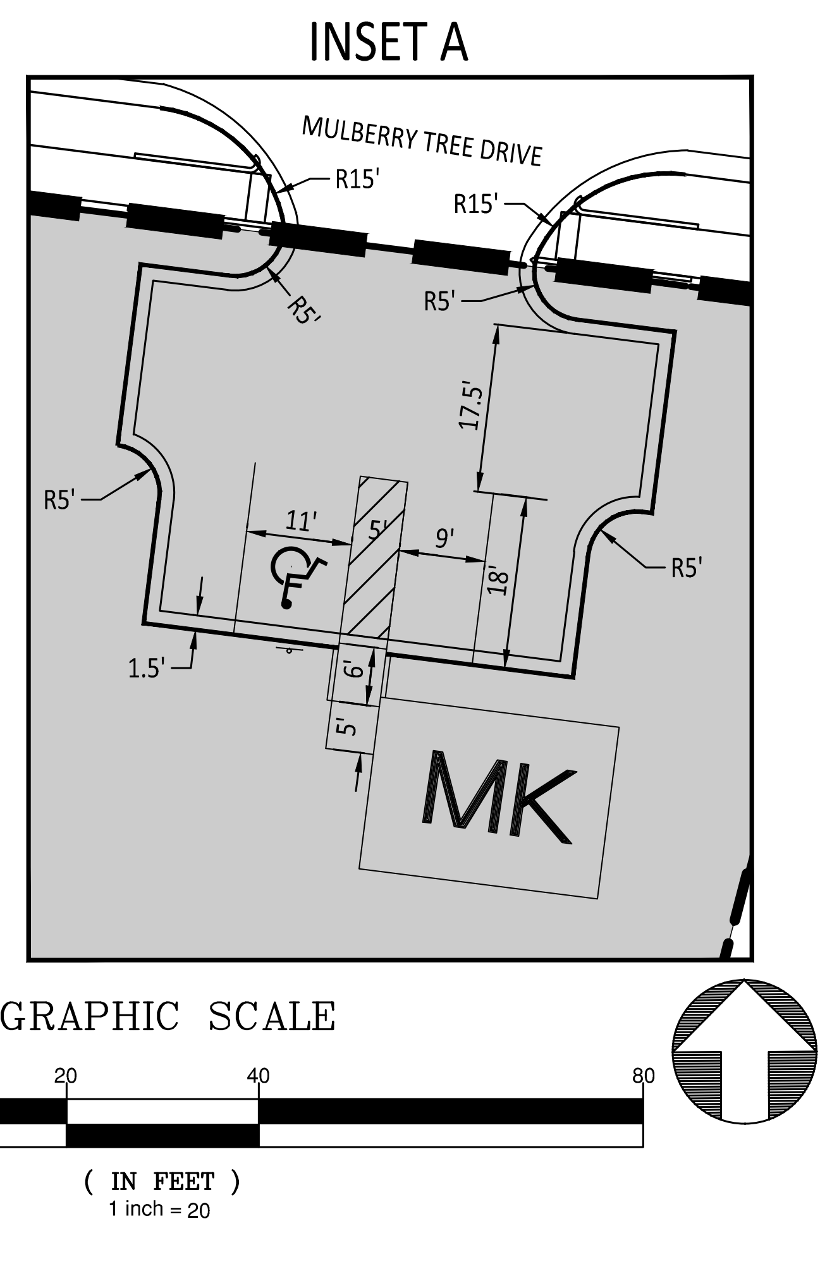
NOTE: OFFSITE IMPROVEMENTS SHOWN ARE CURRENTLY UNDER CONSTRUCTION AND NCDOT APPROVED ON JUNE 5th AS A PART OF E051-092-24-00303. THE PRESERVE AT MOODY FARM NCDOT IMPROVEMENTS ONLY INCLUDE AN UPDATED DRIVEWAY (IN SAME LOCATION AS EXISTING) AND A WATER CONNECTION.

KEYNOTE LEGEND:

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

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

INSET A



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919-469-1101

C-3881

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Jakob Klein
Date: 2025.06.02
14:59:58-04'00'

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056528
JAKOB P. KLEIN

NO.	DATE	REVISION:

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

SITE PLAN B

SHEET NO.:

C4.2

North Carolina 811
www.nc811.org
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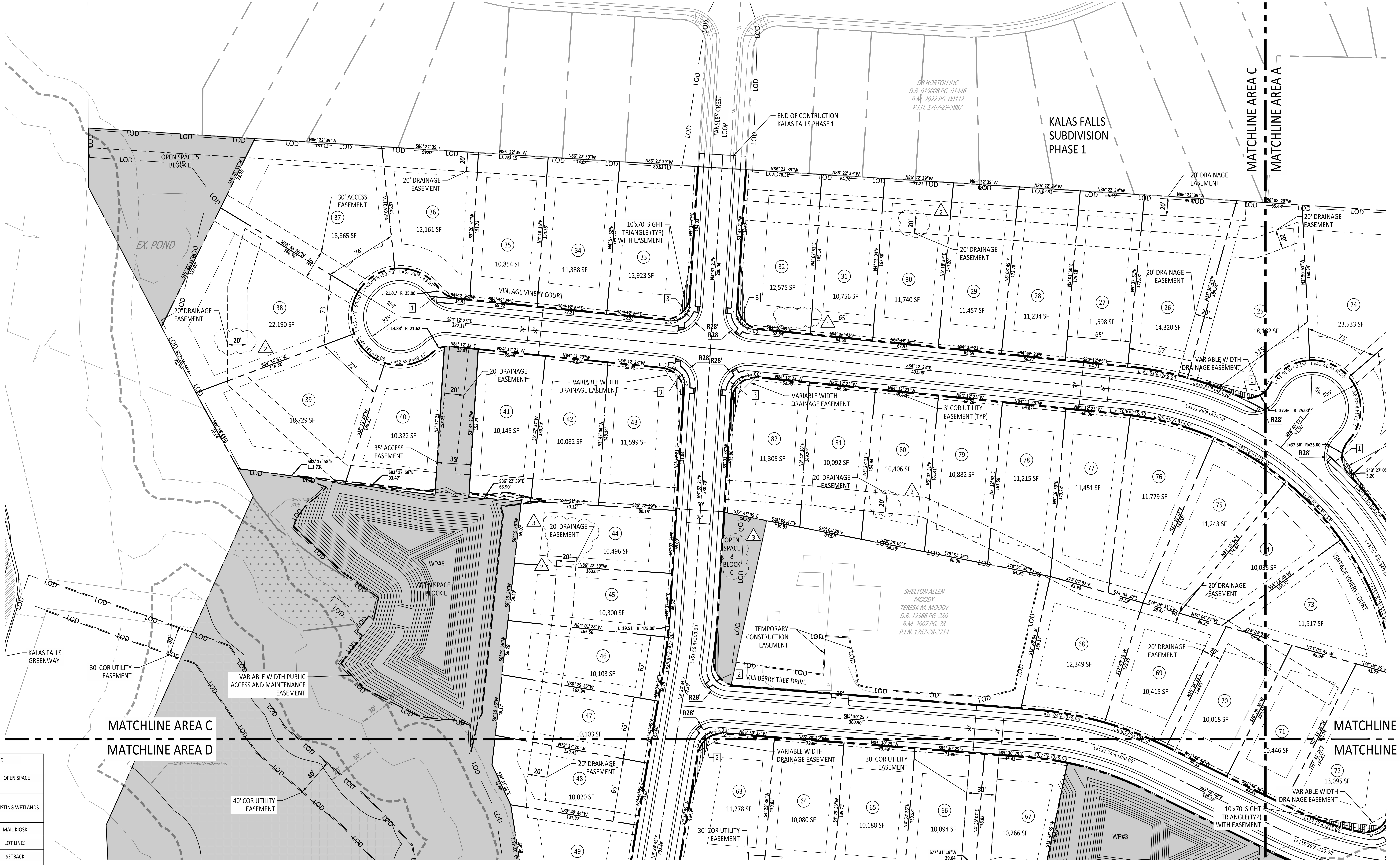
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\4.0-4.6 Site Plan.dwg

June 2, 2025

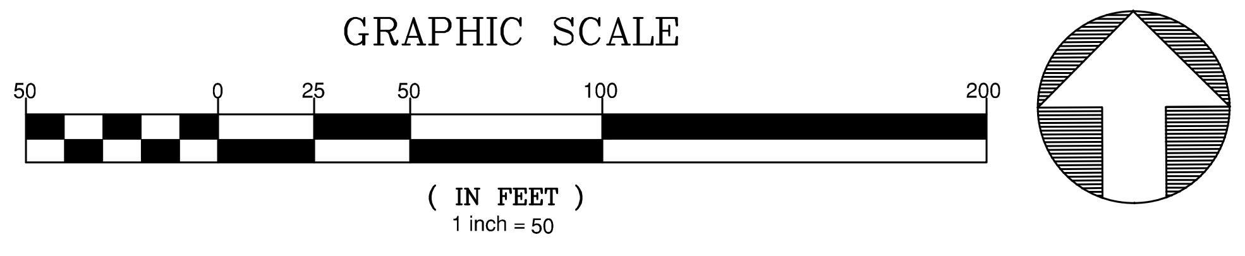


SITE LEGEND

▨	OPEN SPACE
▦	EXISTING WETLANDS
Ⓜ︎Ⓚ︎	MAIL KIOSK
— - —	LOT LINES
— —	SETBACK
━ ‒ ━	PROPOSED ROW
——	PROPOSED EOP
— - —	PROPOSED CENTERLINE
——	PROPOSED BACK OF CURB
- - - -	50' NEUSE RIPARIAN BUFFER
‒ ‒ ‒ ‒	BUFFER ZONE 1 AND 2
—···—	TOP OF CREEK
⌇	PROPOSED SCM
—□—□—	PROPOSED FENCE
◢	SIGHT TRIANGLE

KEYNOTE LEGEND:

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



North Carolina 811
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North Carolina 811
811 or 1-800-632-4949
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June 2, 2025
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NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

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

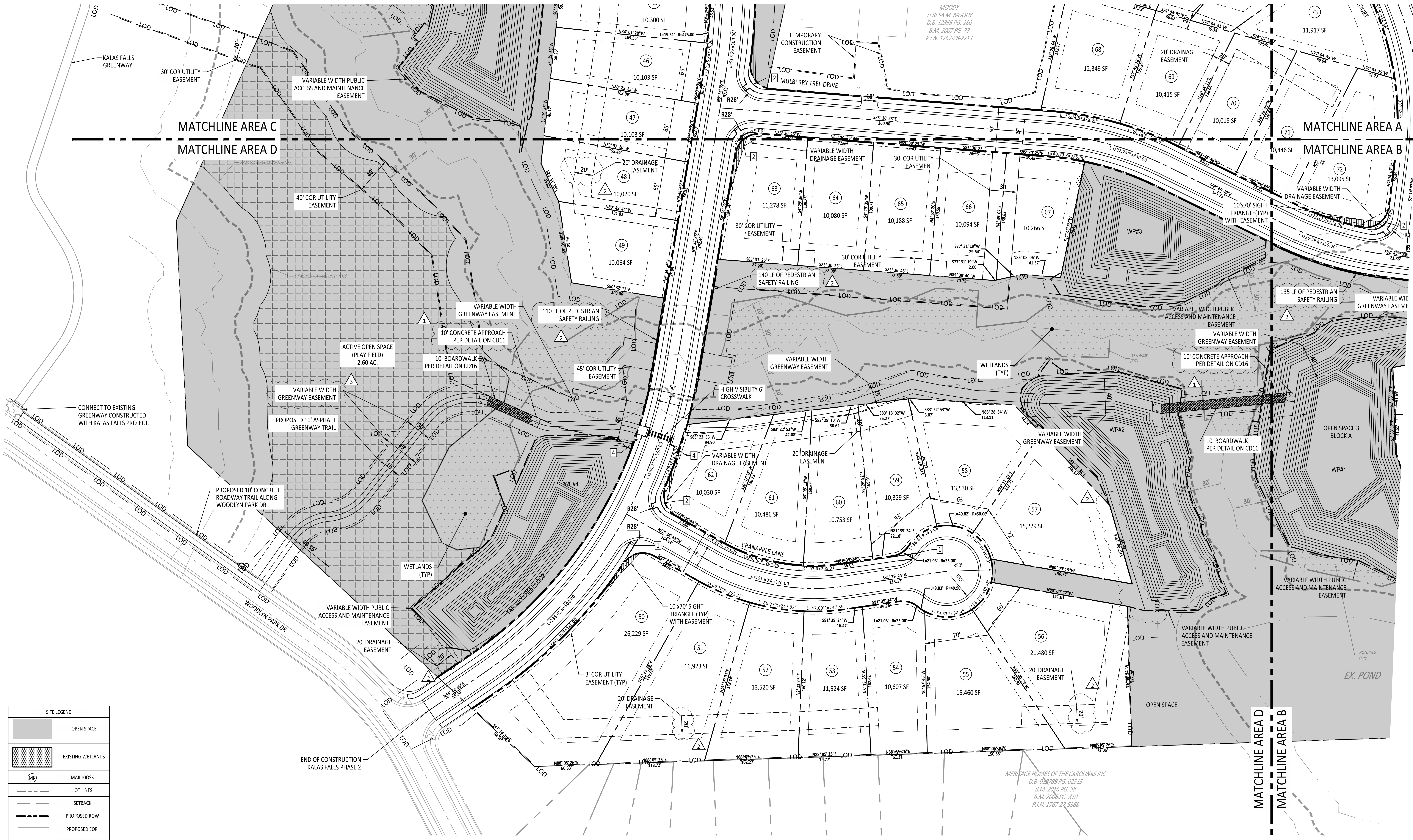
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

SITE PLAN C

SHEET NO.:

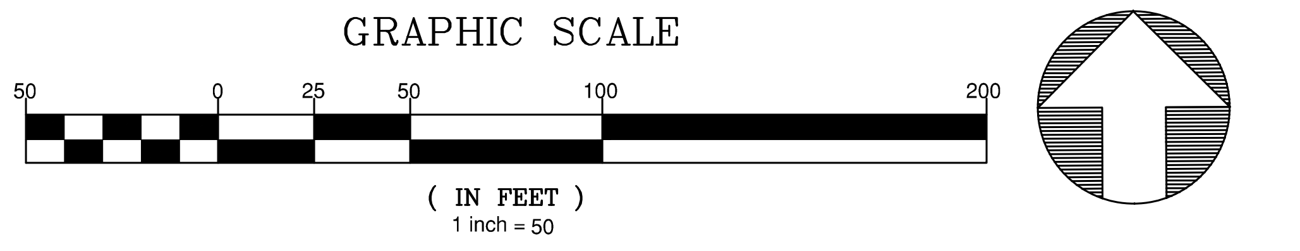
C4.3



SITE LEGEND	
▨	OPEN SPACE
▦	EXISTING WETLANDS
(MK)	MAIL KIOSK
— - - —	LOT LINES
—— ——	SETBACK
━ ━ ━	PROPOSED ROW
——	PROPOSED EOP
— - —	PROPOSED CENTERLINE
——	PROPOSED BACK OF CURB
- - - - -	50' NEUSE RIPARIAN BUFFER
▬ ▬ ▬	BUFFER ZONE 1 AND 2
—···—	TOP OF CREEK
	PROPOSED SCM
—□—□—	PROPOSED FENCE
	SIGHT TRIANGLE

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



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

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Raleigh, NC 27607
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NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

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NO.	DATE	REVISION:

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

JOB NUMBER: 21-002
CHECKED BY: JK
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DATE: 06/02/2025

SHEET TITLE:

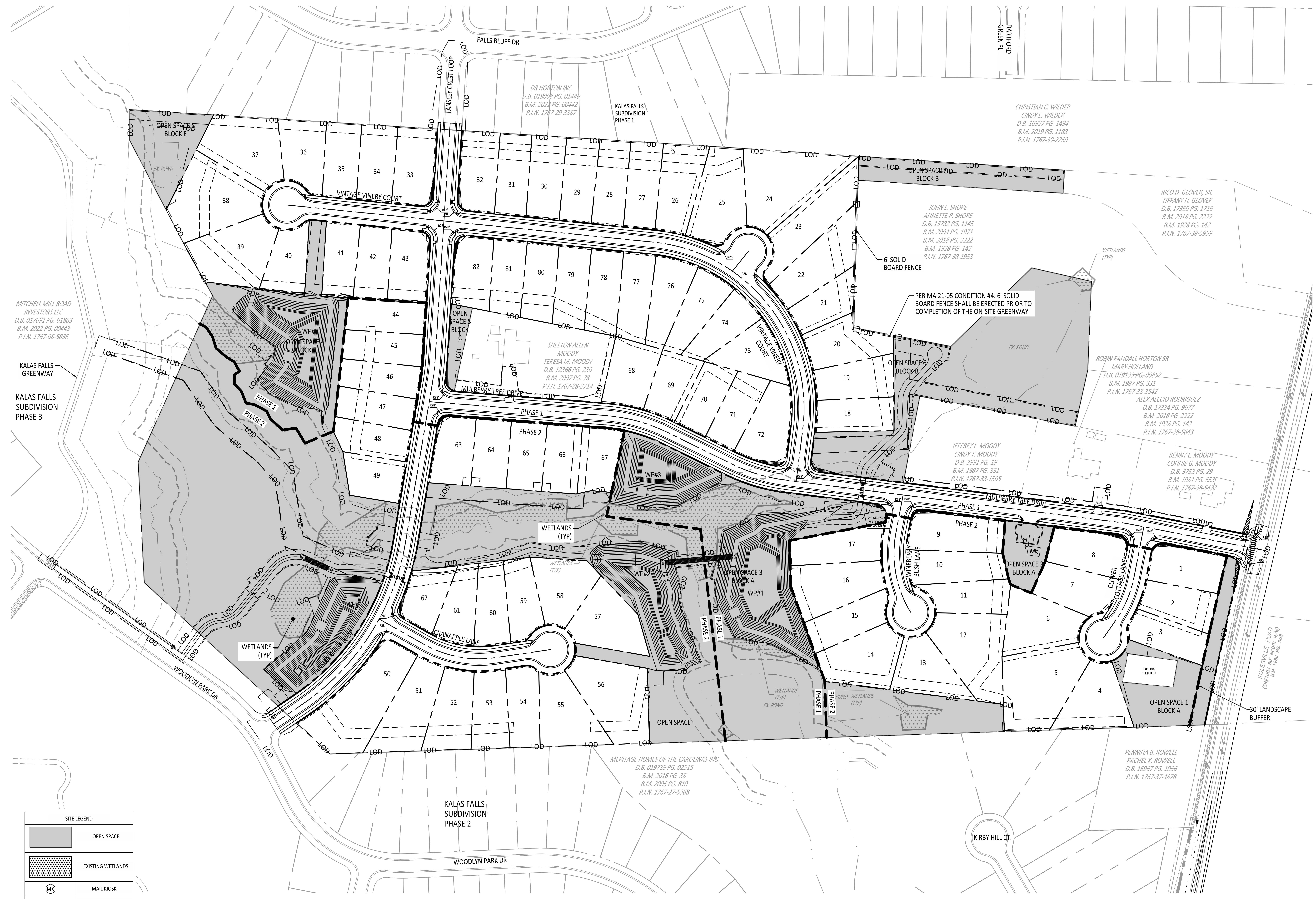
SITE PLAN D

SHEET NO.:

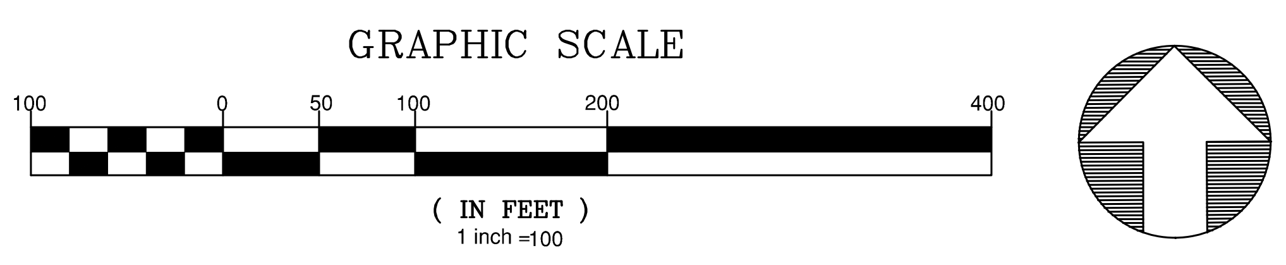
C4.4

June 2, 2025

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_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



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

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

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

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

TOTAL NUMBER OF LOTS

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

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

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NO.	DATE	REVISION:

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

PHASING PLAN

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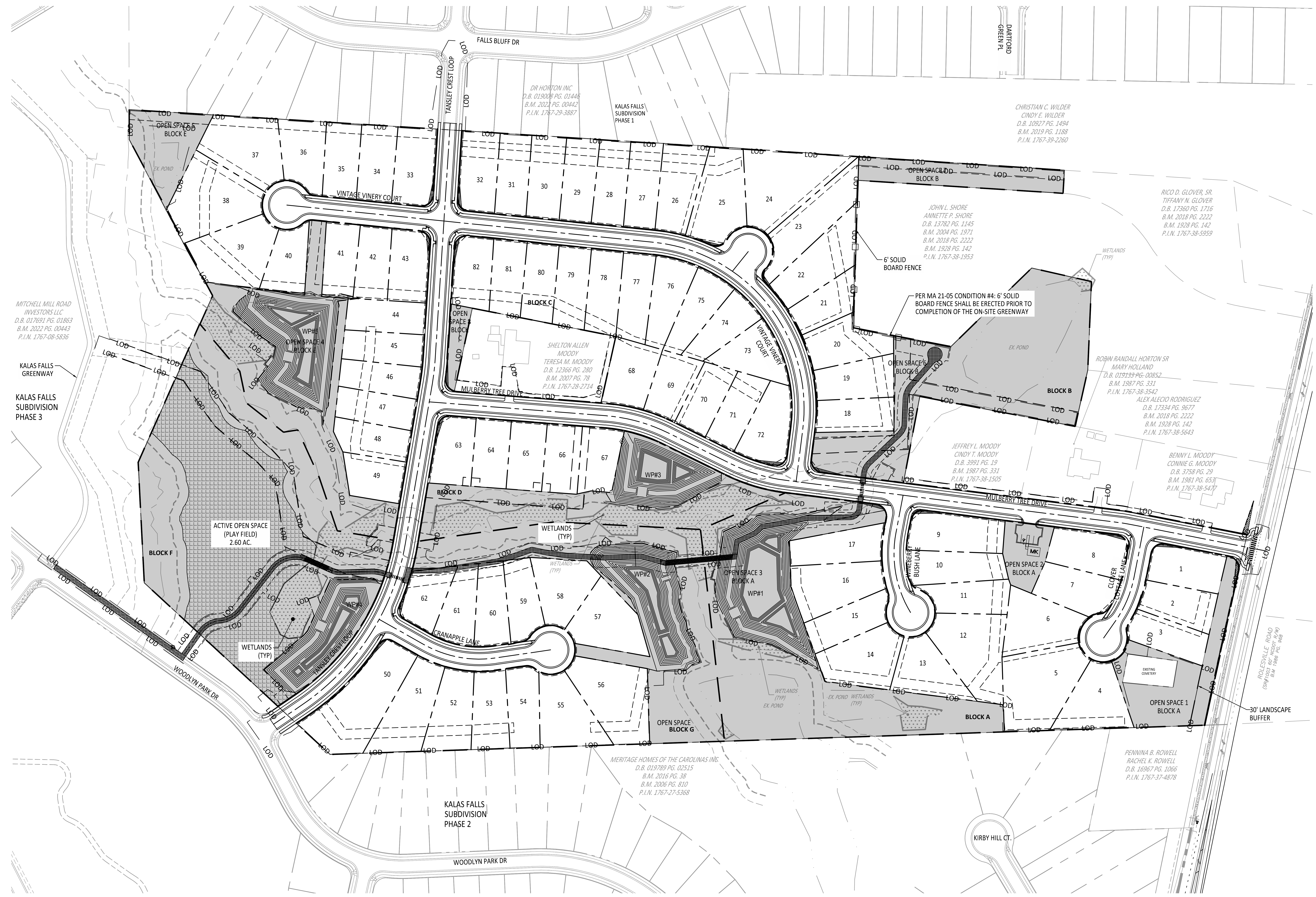
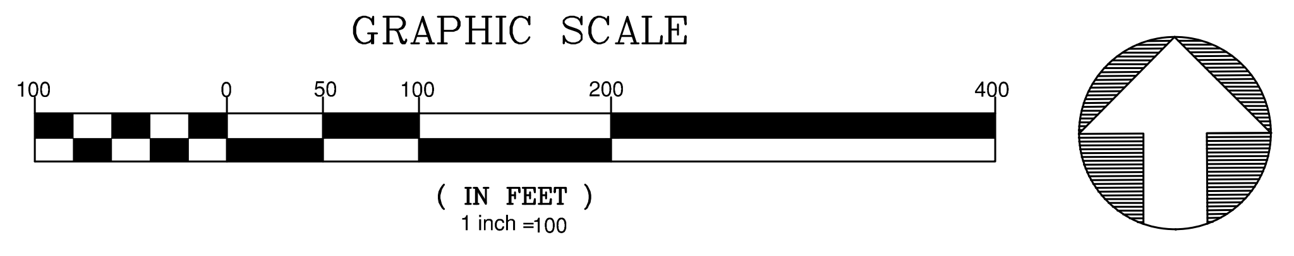
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

SHEET NO.:

C4.5





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	24.69 AC
AREA IN ROW	6.54 AC
OPEN SPACE REQ.	10% / 5 AC.
OPEN SPACE PROVIDED	37% / 18.81 AC
ACTIVE REQUIRED	2.5 AC (50% OF 5 AC)
ACTIVE SHOWN	2.7 AC

North Carolina 811
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THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

OPEN SPACE AND LAND USE PLAN

SHEET NO.:

C4.6

June 2, 2025

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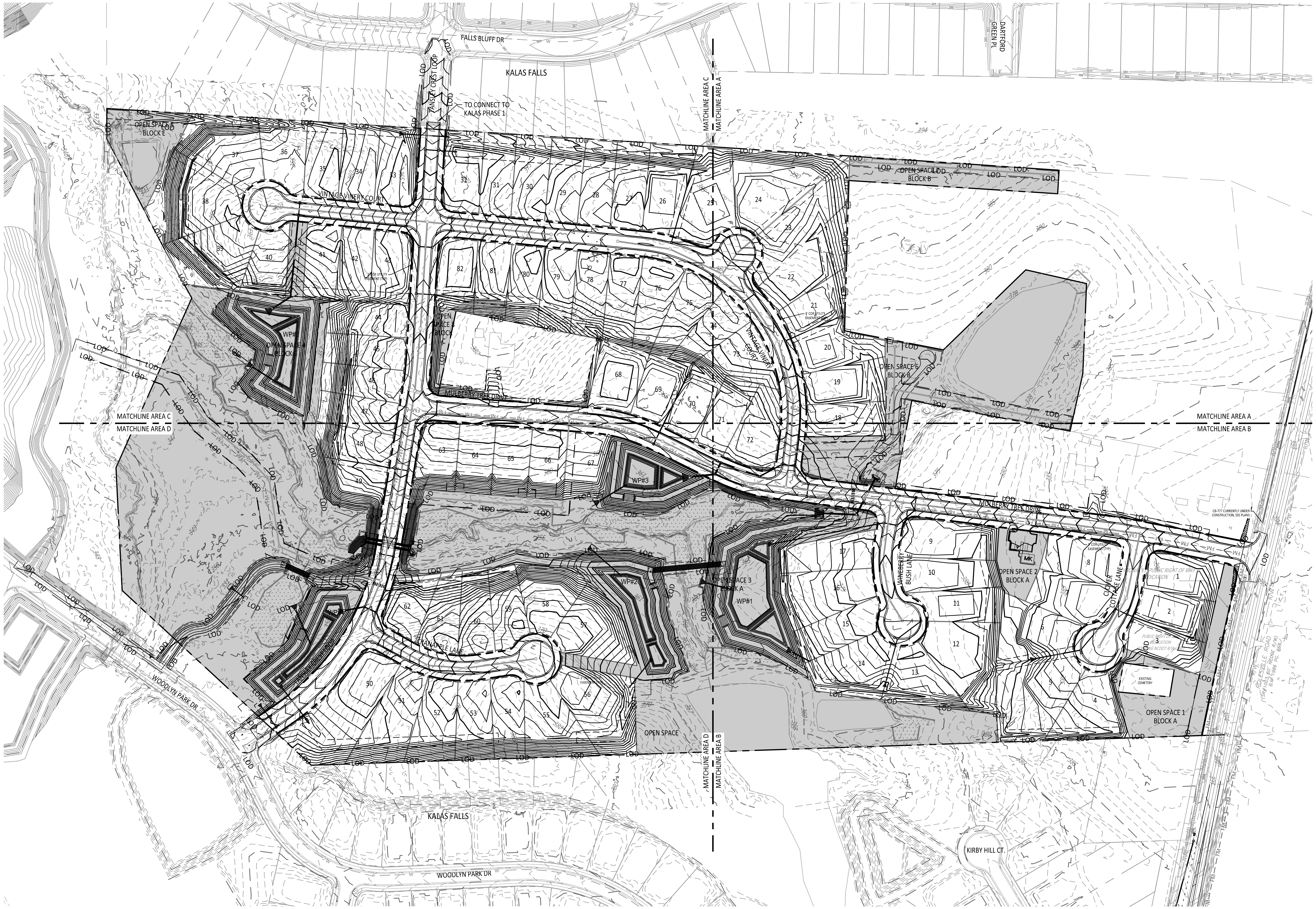
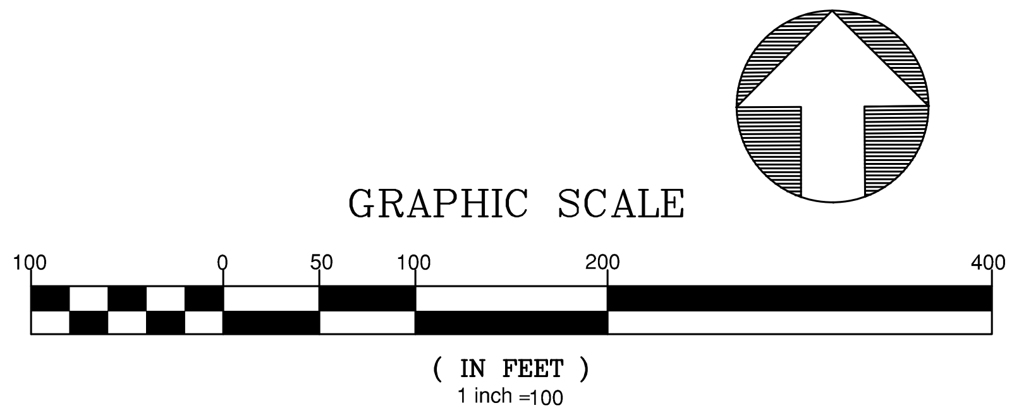


SITE LEGEND	
▨	OPEN SPACE
▩	EXISTING WETLANDS
Ⓜ	MAIL KIOSK
──	LOT LINES
— —	SETBACK
▬ ▬ ▬	PROPOSED ROW
──	PROPOSED EOP
	PROPOSED CENTERLINE
──	PROPOSED BACK OF CURB
- - - -	50' NEUSE RIPARIAN BUFFER
▪ ▪ ▪ ▪	BUFFER ZONE 1 AND 2
—·—·—	TOP OF CREEK
	PROPOSED SCM
—□—□—	PROPOSED FENCE
	SIGHT TRIANGLE



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

#1 - Please include the grading for building pads. This was previously provided.

AMERICAN Engineering

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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

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Jakob Klein
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CONSTRUCTION

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

OVERALL DRAINAGE PLAN

SHEET NO.:

C5.0

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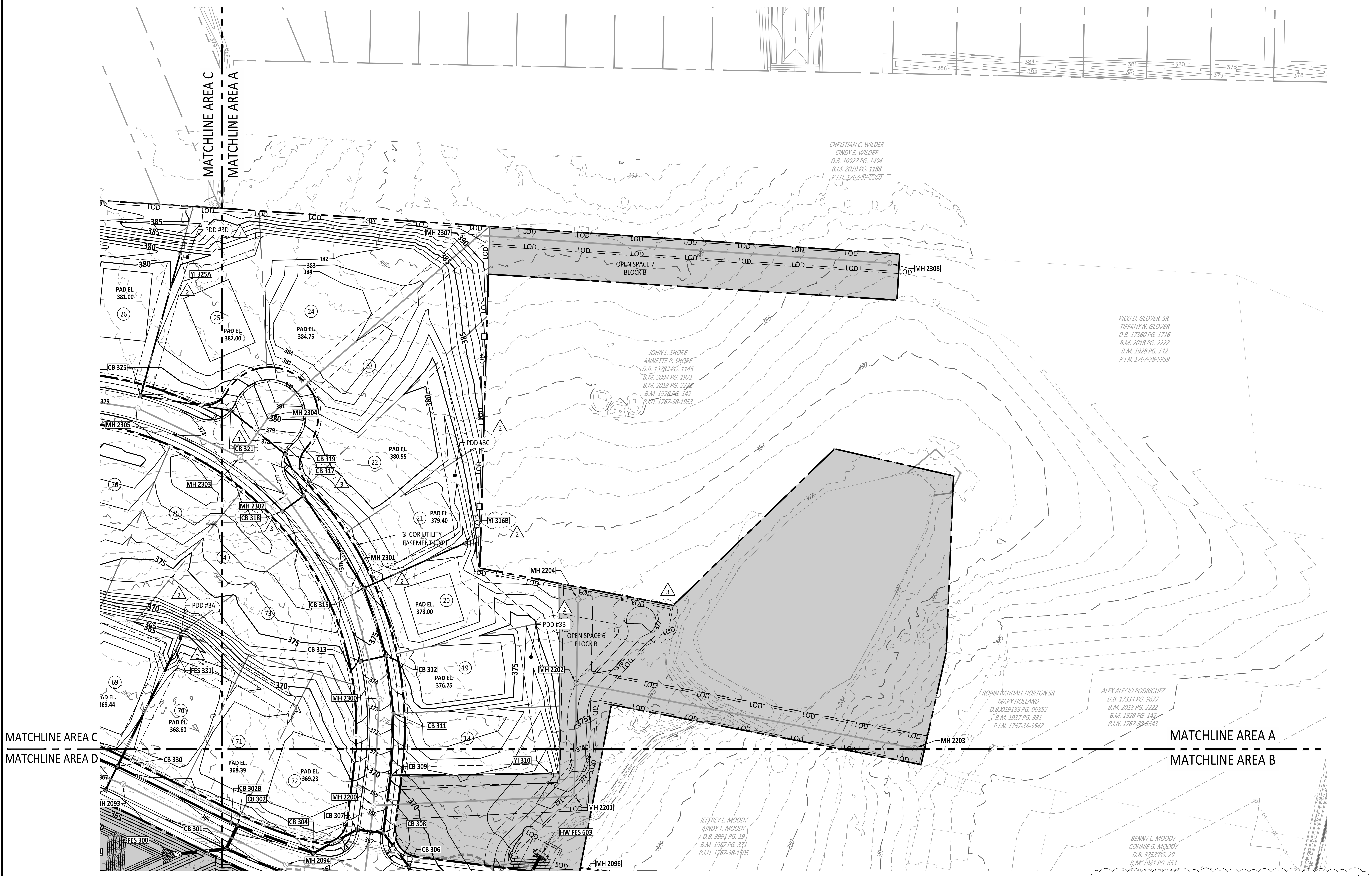
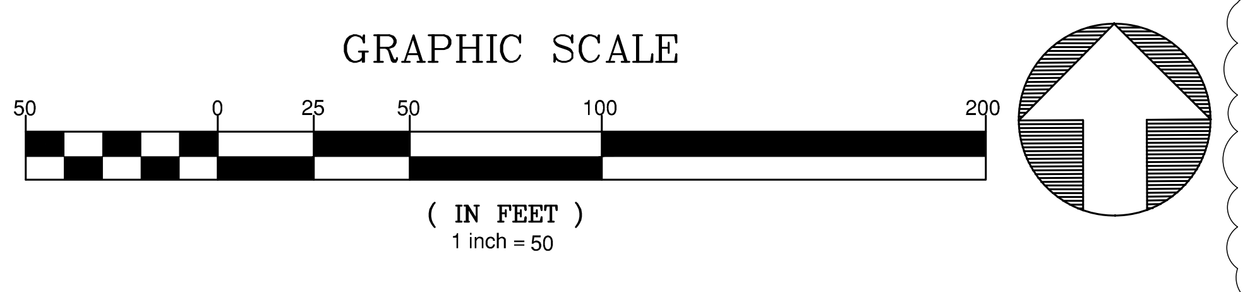
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\5.0-5.3 Drainage and Grading Plan.dwg June 2, 2025





#1 - Please include the grading for building pads. This was previously provided.

GRADING & DRAINAGE NOTES: 3

1. PDD IS 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.

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

AMERICAN Engineering

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

C-3881

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Date: 2025.06.02 15:00:05-04'00'

56528
JAKOB P. KLEIN

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

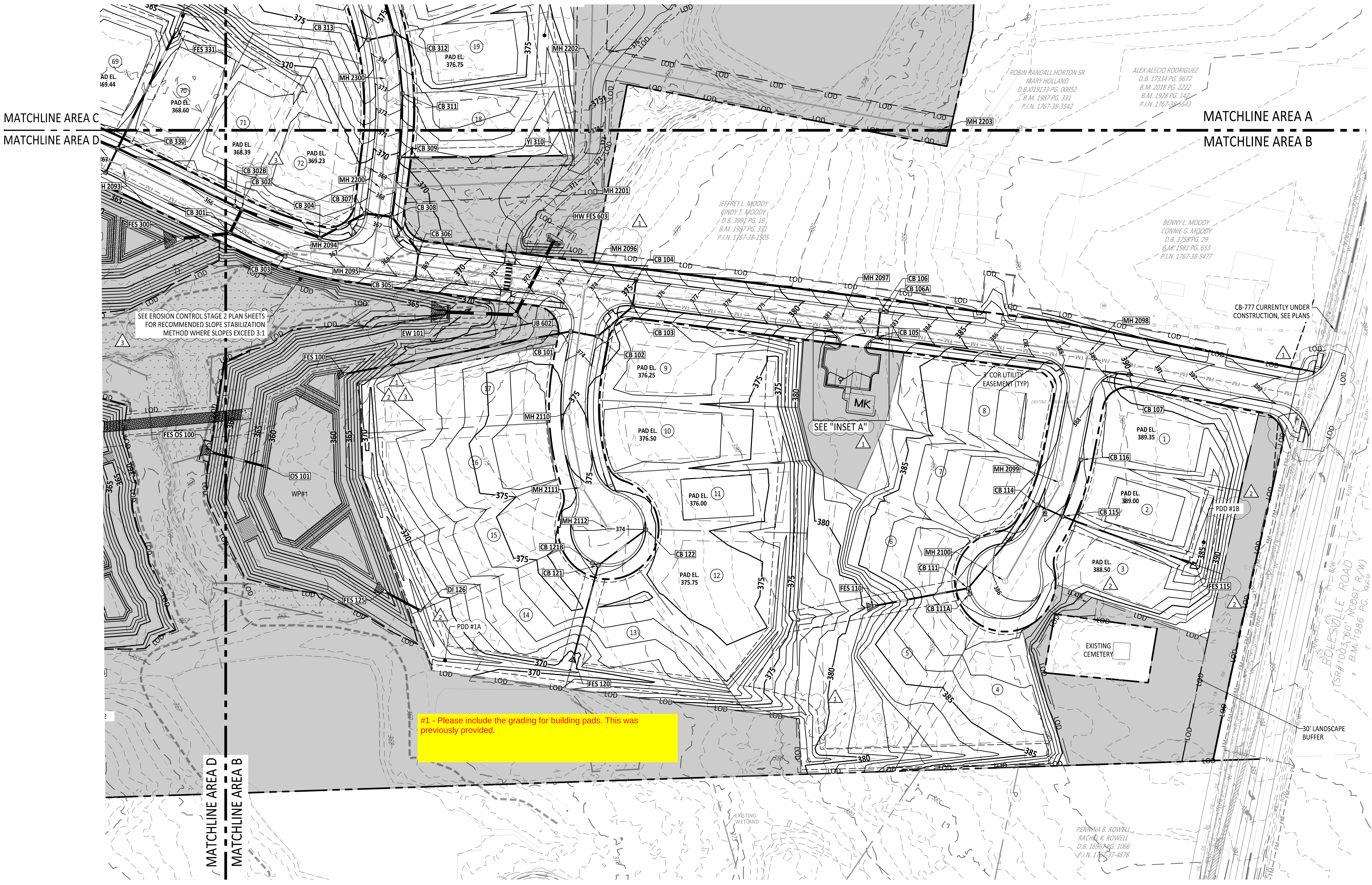
DRAINAGE PLAN A

SHEET NO.:

C5.1

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

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\5.0-5.3 Drainage and Grading Plan.dwg June 2, 2025



#1 - Please include the grading for building pads. This was previously provided.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50

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.

GRADING & DRAINAGE NOTES:

1. PDD IS 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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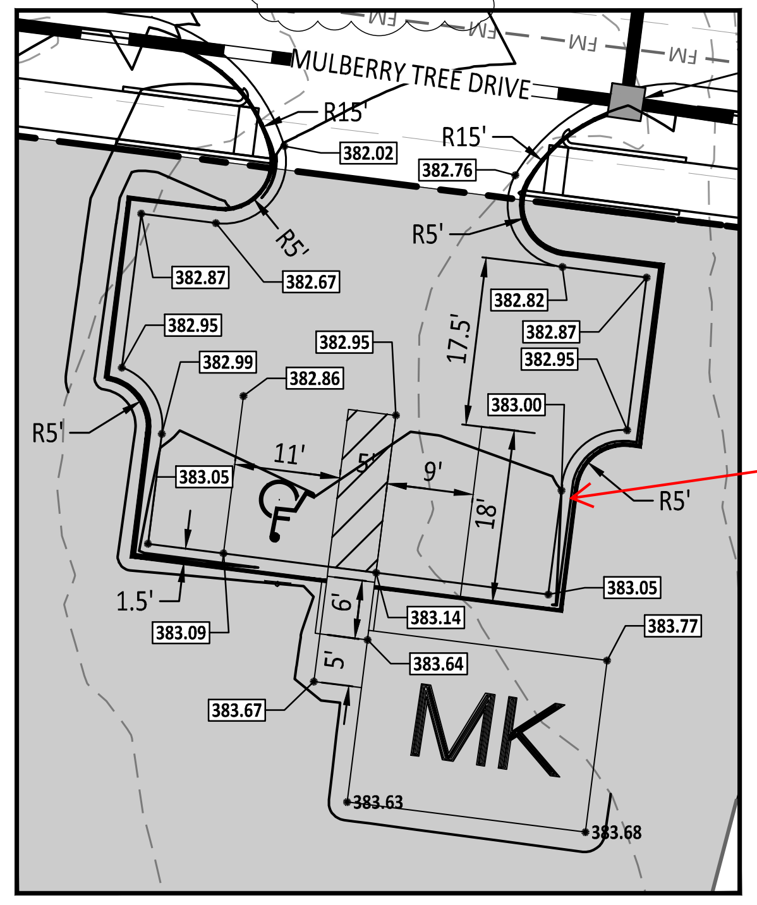
INSET A



NOTE: SPOT ELEVATIONS WITHIN PARKING LOT ARE ALONG THE EOP

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20

#2 - The grade on the curbline appears to be 0.45%; this provides a likely chance that water will sit/pool in the curbline or corner. Please review for possibly increasing the curbline grade to ensure positive drainage.

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

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
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Raleigh, NC 27607
919-469-1101

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Jakob Klein
Date: 2025.06.02
15:00:06-04'00'

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JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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THE PRESERVE
MO
ROL
WAK

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

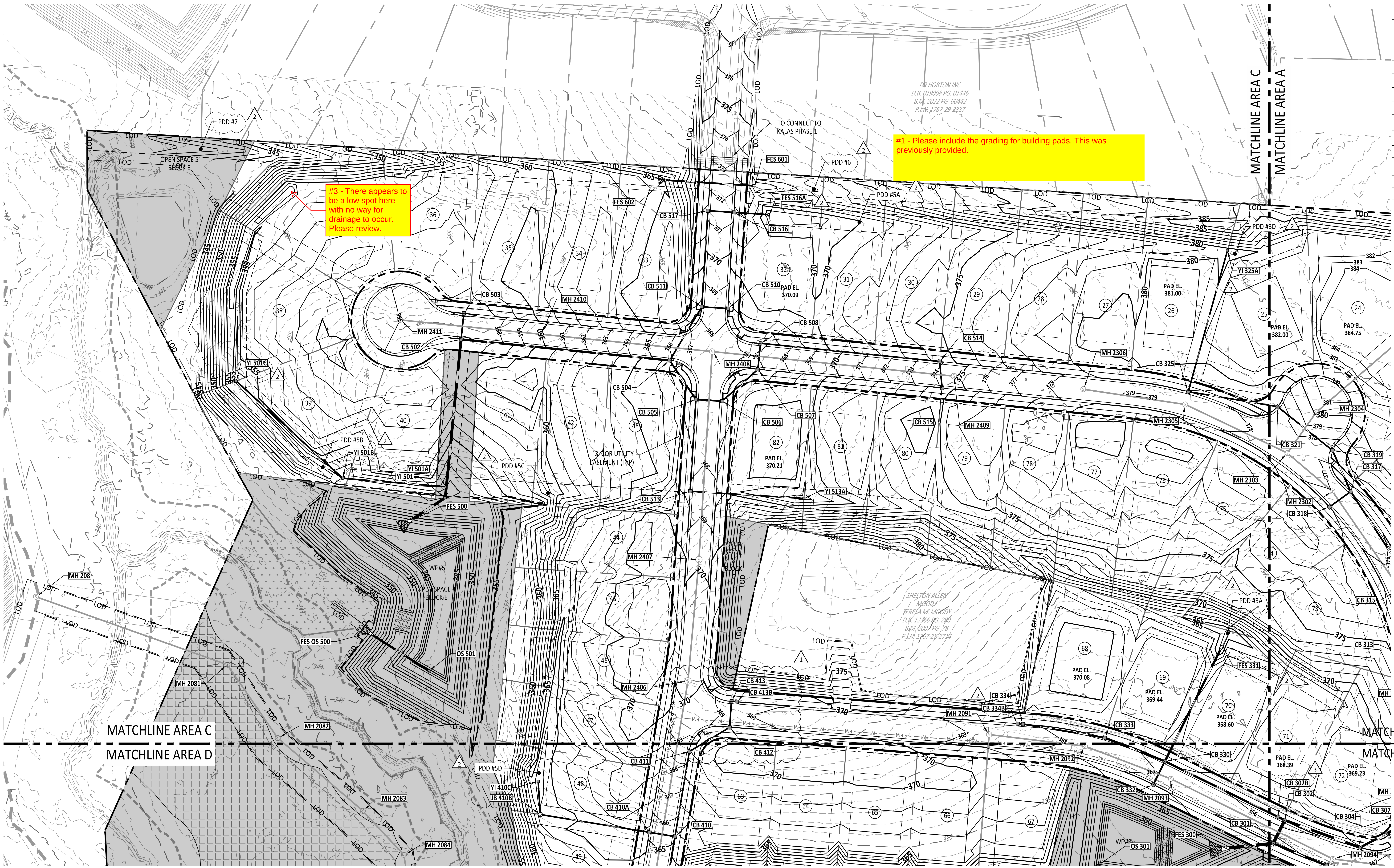
SHEET TITLE:

DRAINAGE PLAN B

SHEET NO.:
C5.2

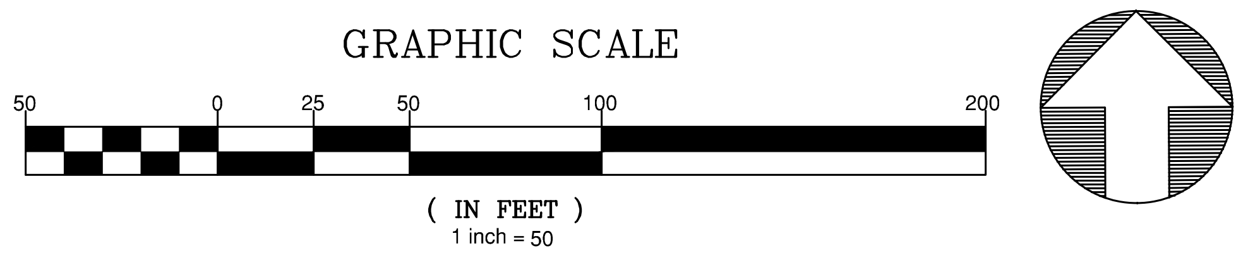
North Carolina 811
www.nc.811.org
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\5.0-5.3 Drainage and Grading Plan.dwg June 2, 2025



#1 - Please include the grading for building pads. This was previously provided.

#3 - There appears to be a low spot here with no way for drainage to occur. Please review.



GRADING & DRAINAGE NOTES: △3

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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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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

AMERICAN Engineering

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Raleigh, NC 27607
919-469-1101

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

Digitally signed by Jakob Klein
Date: 2025.06.02 15:00:07-04'00'

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SEAL 56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

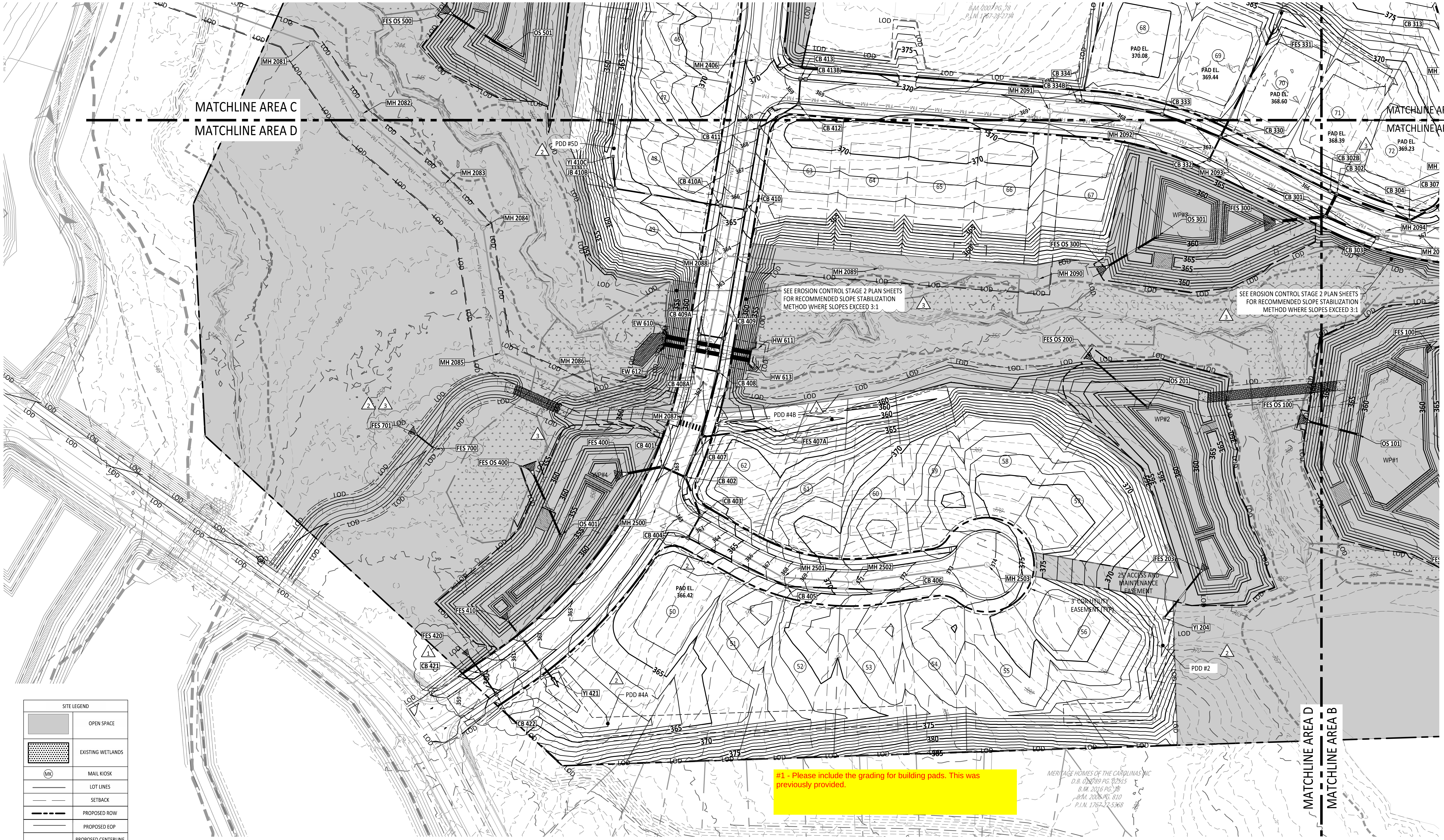
DRAINAGE PLAN C

SHEET NO.:

C5.3

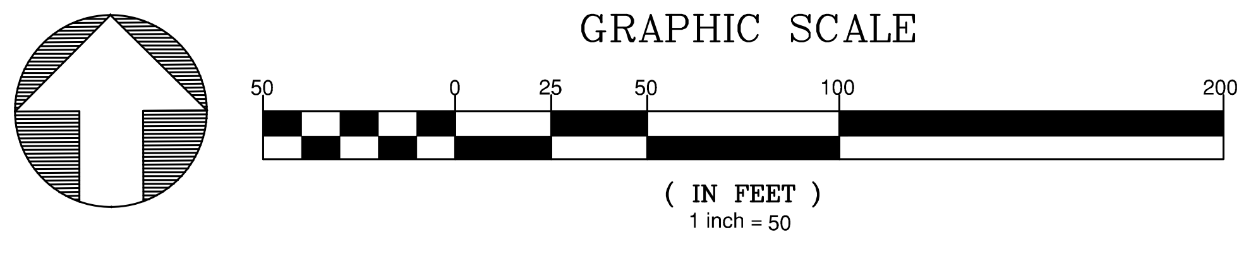
North Carolina 811
www.nc.811.org
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\5.0-5.3 Drainage and Grading Plan.dwg June 2, 2025



#1 - Please include the grading for building pads. This was previously provided.

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



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Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\5.0-5.3 Drainage and Grading Plan.dwg June 2, 2025

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Remote Ticket Entry
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JAKOB P. KLEIN 56528

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

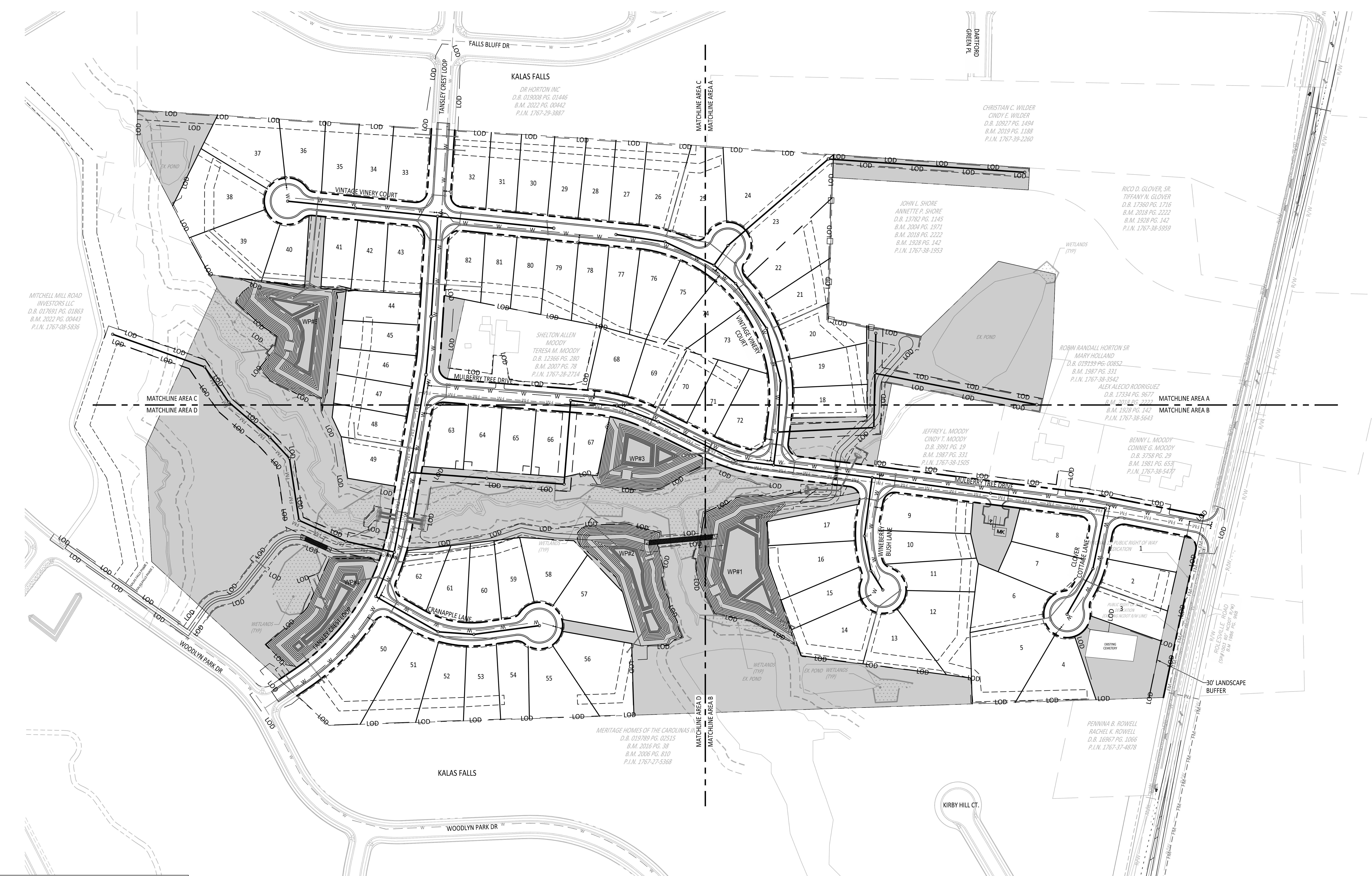
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

DRAINAGE PLAN D

SHEET NO.:

C5.4



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
— SEWER —	PROPOSED SEWERLINE
Ⓢ	PROPOSED MANHOLE
⋈	PROPOSED MANHOLE
—■	PROPOSED WATER METER
—●	PROPOSED SEWER SERVICE

AMERICAN Engineering

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

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

Digitally signed by
Jakob Klein
Date: 2025.06.02
15:00:10-04'00'

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P. KLEIN

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

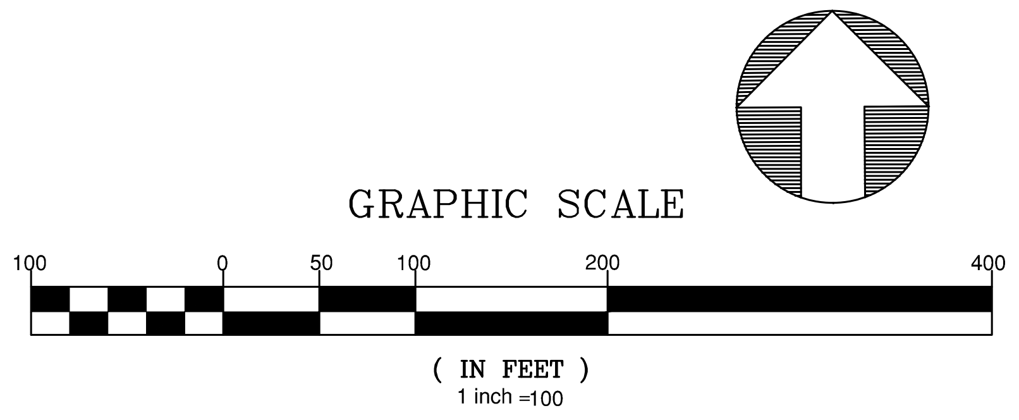
OVERALL UTILITIES PLAN

SHEET NO.:

C6.0

*WE'RE ANTICIPATING CONSTRUCTION OF FM TO BE DONE PRIOR TO CONSTRUCTION OF THIS PROJECT.

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



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.

Public
Sewer Collection / Extension System

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

City of Raleigh
Public Utilities Department Permit # ____________

Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # ____________

North Carolina 811 www.nc811.org
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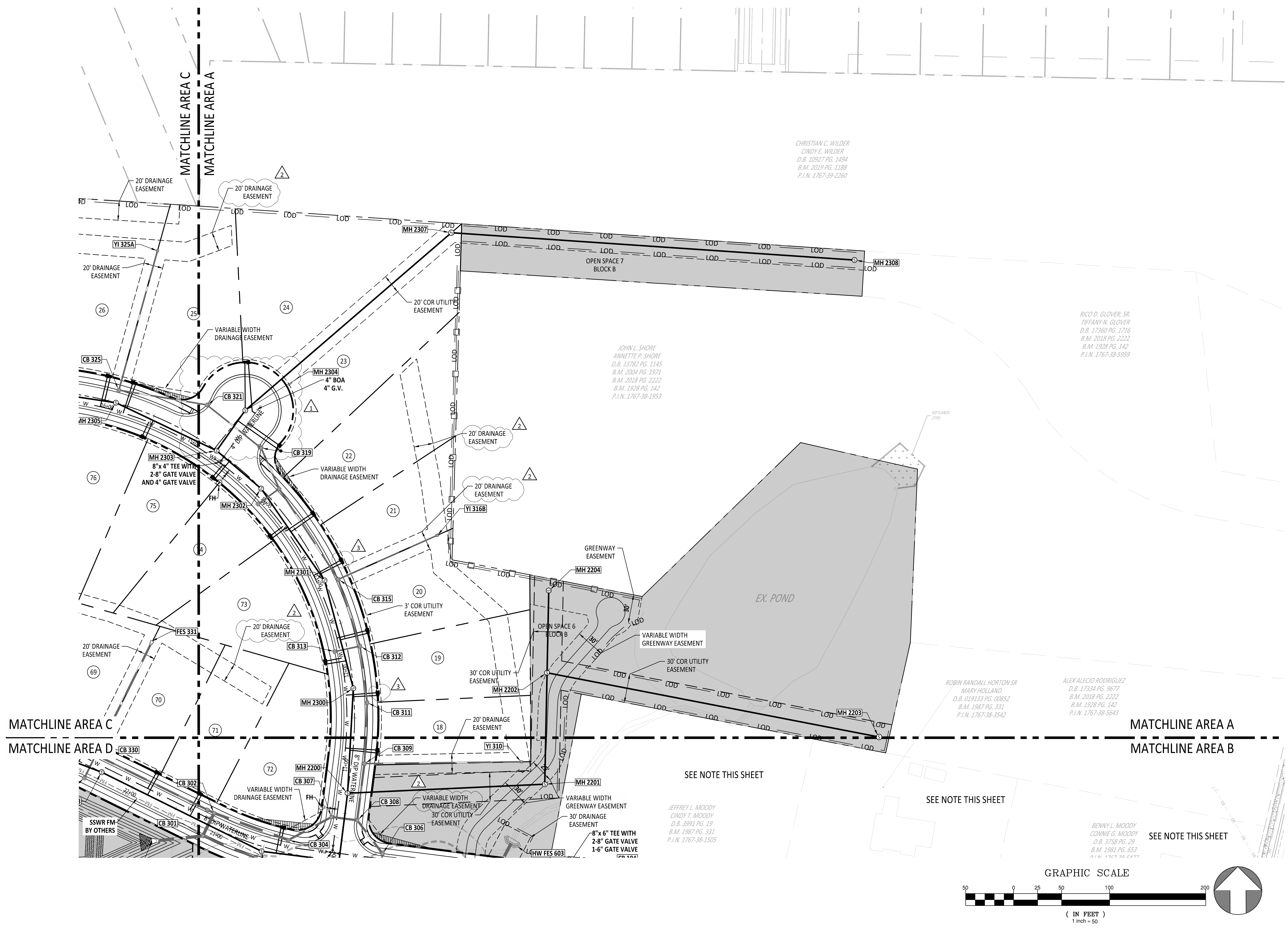
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\21-002 Moody Development Tract (R2100002)\dwg_Working Dwgs\Construction Set\6.0-Utilities Plan.dwg
June 2, 2025



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UTILITY LEGEND	
▨	OPEN SPACE
▩	EXISTING WETLANDS
(MK)	MAIL KIOSK
───	LOT LINES
━ ━ ━	PROPOSED ROW
───	PROPOSED EOP
── ─ ──	PROPOSED CENTERLINE
───	PROPOSED BACK OF CURB
- - - -	50' NEUSE RIPARIAN BUFFER
- - - -	BUFFER ZONE 1 AND 2
─···─···─	TOP OF CREEK
⬠	PROPOSED SCM
───	PROPOSED WATERLINE
━ SEWER ━	PROPOSED SEWERLINE
Ⓢ	PROPOSED MANHOLE
⋈	PROPOSED MANHOLE
─■	PROPOSED WATER METER
─●	PROPOSED SEWER SERVICE

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 # ____________________

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

C-3881

Digitally signed by
Jakob Klein
Date: 2025.06.02
15:00:11-04'00'

PRELIMINARY
- DO NOT USE FOR
CONSTRUCTION

56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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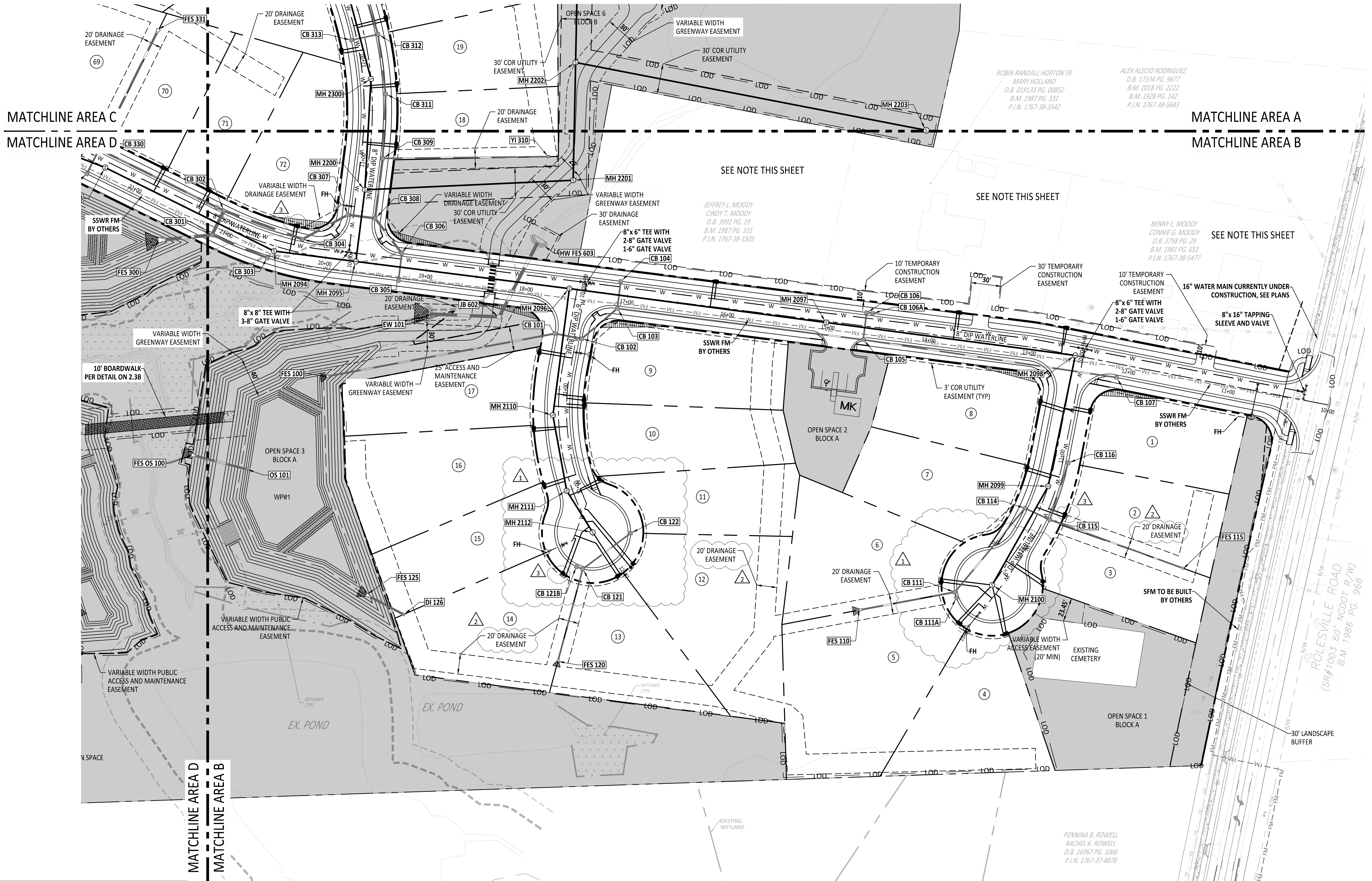
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:
UTILITY PLAN A

SHEET NO.:
C6.1

June 2, 2025


MATCHLINE AREA C
MATCHLINE AREA D
MATCHLINE AREA A
MATCHLINE AREA B
SEE NOTE THIS SHEET
SEE NOTE THIS SHEET
SEE NOTE THIS SHEET
8" DIP WATERLINE
8"x 8" TEE WITH 3-8" GATE VALVE
8"x 6" TEE WITH 2-8" GATE VALVE 1-6" GATE VALVE
8"x 6" TEE WITH 2-8" GATE VALVE 1-6" GATE VALVE
16" WATER MAIN CURRENTLY UNDER CONSTRUCTION, SEE PLANS
8"x 16" TAPPING SLEEVE AND VALVE
SSWR FM BY OTHERS
SFM TO BE BUILT BY OTHERS
10' BOARDWALK PER DETAIL ON 2.3B
10' TEMPORARY CONSTRUCTION EASEMENT
30' TEMPORARY CONSTRUCTION EASEMENT
3' COR UTILITY EASEMENT (TYP)
30' COR UTILITY EASEMENT
20' DRAINAGE EASEMENT
30' DRAINAGE EASEMENT
VARIABLE WIDTH GREENWAY EASEMENT
VARIABLE WIDTH DRAINAGE EASEMENT
VARIABLE WIDTH PUBLIC ACCESS AND MAINTENANCE EASEMENT
25' ACCESS AND MAINTENANCE EASEMENT
VARIABLE WIDTH ACCESS EASEMENT (20' MIN)
30' LANDSCAPE BUFFER
OPEN SPACE 1 BLOCK A
OPEN SPACE 2 BLOCK A
OPEN SPACE 3 BLOCK A
OPEN SPACE 6 BLOCK B
WP#1
MK
EXISTING CEMETERY
EX. POND
EXISTING WETLAND
ROLESVILLE ROAD (SR#1003 60' NCDOT R/W) B.M. 1986 PG. 968
ROBIN RANDALL HORTON SR MARY HOLLAND D.B. 019133 PG. 00852 B.M. 1987 PG. 331 P.I.N. 1767-38-3542
ALEX ALECIO RODRIGUEZ D.B. 17334 PG. 9677 B.M. 2018 PG. 2222 B.M. 1928 PG. 142 P.I.N. 1767-38-5643
JEFFREY L. MOODY CINDY T. MOODY D.B. 3991 PG. 19 B.M. 1987 PG. 331 P.I.N. 1767-38-1505
BENNY L. MOODY CONNIE G. MOODY D.B. 3758 PG. 29 B.M. 1981 PG. 653 P.I.N. 1767-38-5477
PENNINA B. ROWELL RACHEL K. ROWELL D.B. 16967 PG. 1066 P.I.N. 1767-37-4878
MH 2094
MH 2095
MH 2096
MH 2097
MH 2098
MH 2099
MH 2100
MH 2110
MH 2111
MH 2112
MH 2200
MH 2201
MH 2202
MH 2203
MH 2300
CB 101
CB 102
CB 103
CB 104
CB 105
CB 106
CB 106A
CB 107
CB 111
CB 111A
CB 114
CB 115
CB 116
CB 121
CB 121B
CB 122
CB 301
CB 302
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CB 304
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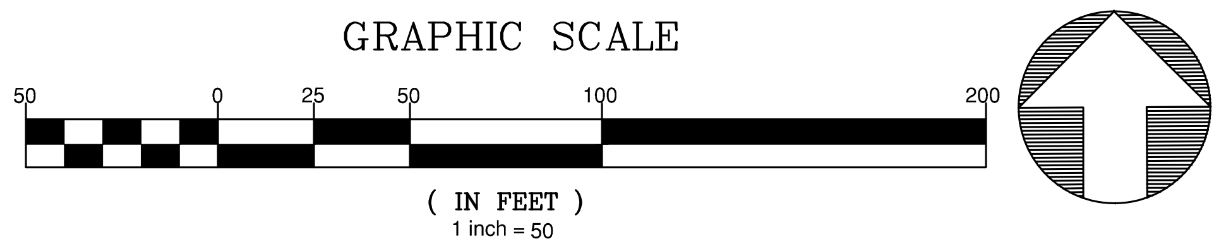
CB 311
CB 312
CB 313
CB 330
FES 100
FES 110
FES 115
FES 120
FES 125
FES 300
FES 331
FES 603
FES OS 100
OS 101
DI 126
EW 101
JB 602
YI 310
FH
LOD



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
—— SEWER ——	PROPOSED SEWERLINE
Ⓢ	PROPOSED MANHOLE
⋈	PROPOSED MANHOLE
—■	PROPOSED WATER METER
—●	PROPOSED SEWER SERVICE

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

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

ATTENTION CONTRACTORS

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Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\6.0-Utilities Plan.dwg

June 2, 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 # ______________________

Public
Water Distribution / Extension System
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City of Raleigh
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North Carolina 811
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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

C-3881

Digitally signed by
Jakob Klein
Date: 2025.06.02
15:00:12-04'00'

PRELIMINARY
- DO NOT USE FOR
CONSTRUCTION

SEAL
56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

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

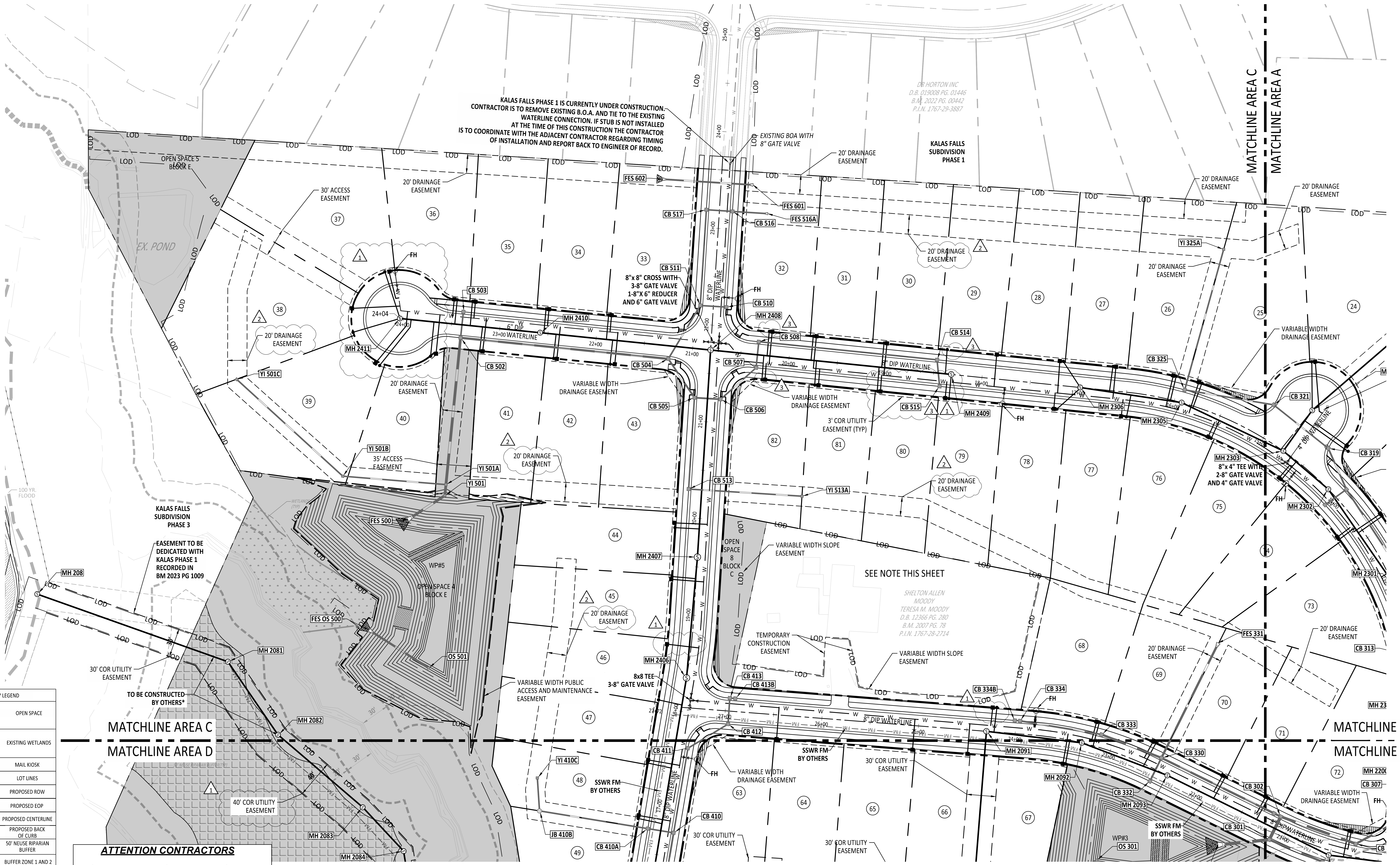
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

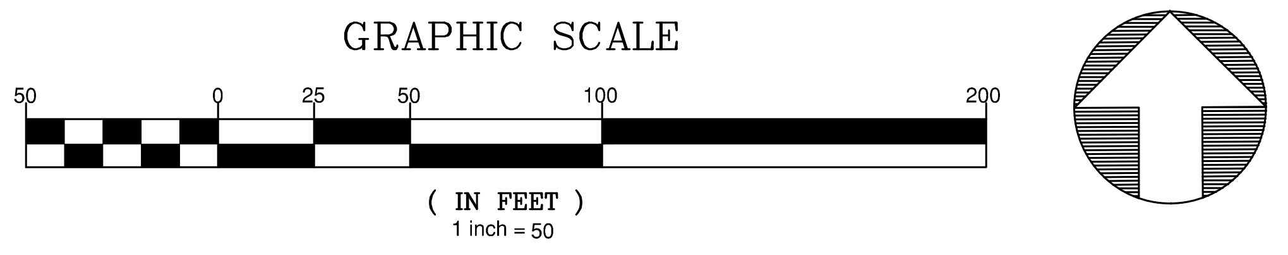
SHEET TITLE:

UTILITY PLAN B

SHEET NO.:

C6.2





NOTE:

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

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
━ SEWER ━	PROPOSED SEWERLINE
Ⓢ	PROPOSED MANHOLE
⋈	PROPOSED MANHOLE
─■	PROPOSED WATER METER
─●	PROPOSED SEWER SERVICE

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Public

Sewer Collection / Extension System

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City of Raleigh
Public Utilities Department Permit # ____________________

Public

Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # ____________________

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

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

Digitally signed by Jakob Klein
Date: 2025.06.02 15:00:13-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

SEAL 56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

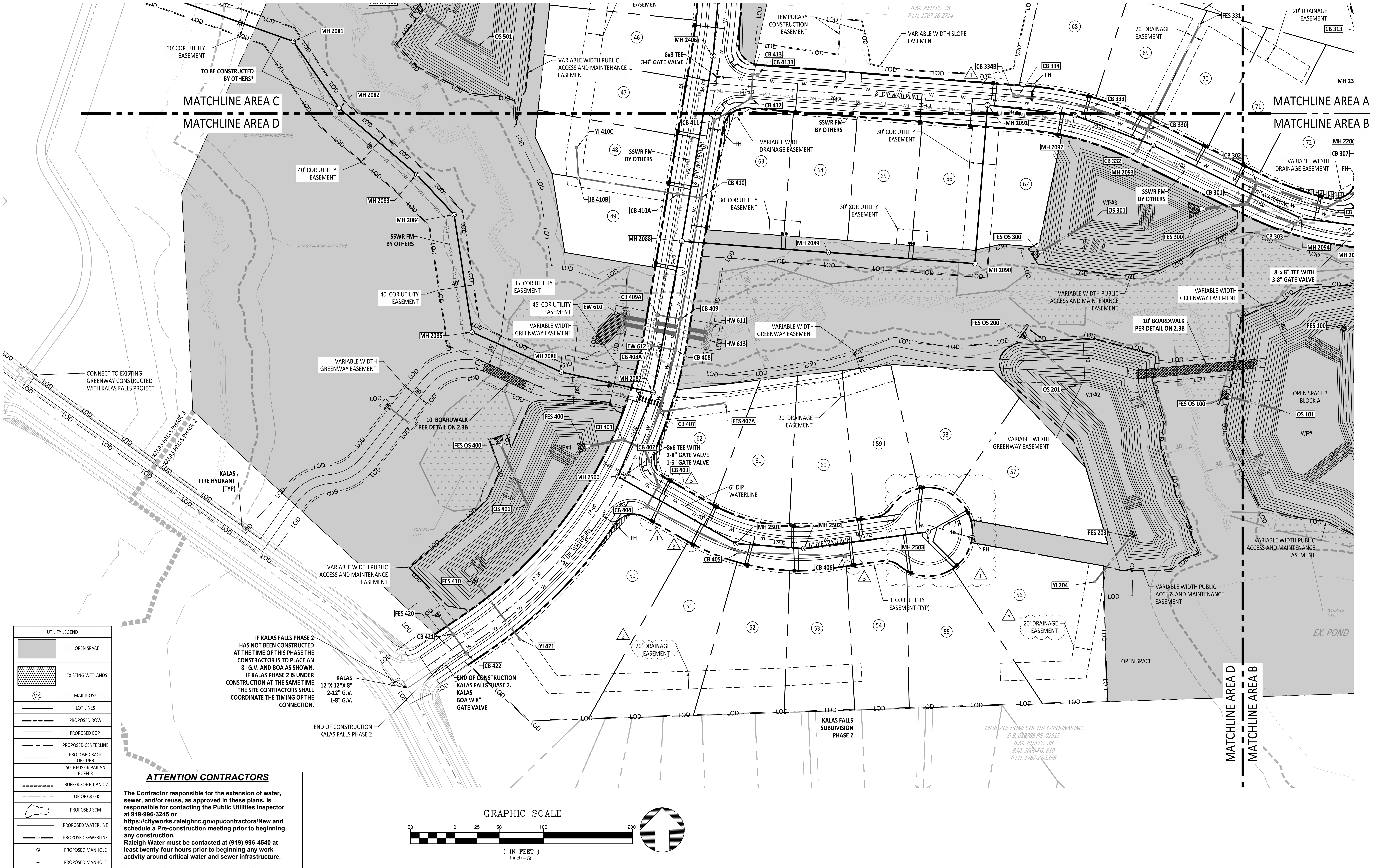
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

UTILITY PLAN C

SHEET NO.:
C6.3



UTILITY LEGEND	
▨	OPEN SPACE
▨	EXISTING WETLANDS
(MK)	MAIL KIOSK
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City of Raleigh
Public Utilities Department Permit # ______________

Public
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City of Raleigh
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NORTH CAROLINA
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
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CERTIFICATE OF AUTHORIZATION

Digitally signed by Jakob Klein
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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:
UTILITY PLAN D

SHEET NO.: C6.4

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\6.0-Utilities Plan.dwg
June 2, 2025

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^3)	RECOMMENDED LINER	LINER ALLOWABLE τ (LBS/FT^3)
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^3)	RECOMMENDED LINER	LINER ALLOWABLE τ (LBS/FT^3)
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

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- 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
MH 208	SSWR MH 4' RIM = 342.80 INV IN = 334.53	8" PVC INV.=334.53	
MH 2081	SSWR MH 4' RIM = 346.57 INV IN = 335.99 INV OUT = 335.79	8" PVC INV.=335.99	8" PVC INV.=335.79
MH 2082	SSWR MH 4' RIM = 347.52 INV IN = 338.24 INV OUT = 338.04	8" PVC INV.=338.24	8" PVC INV.=338.04
MH 2083	SSWR MH 4' RIM = 347.50 INV IN = 340.17 INV OUT = 339.97	8" PVC INV.=340.17	8" PVC INV.=339.97
MH 2084	SSWR MH 4' RIM = 348.65 INV IN = 341.01 INV OUT = 340.81	8" PVC INV.=341.01	8" PVC INV.=340.81
MH 2085	SSWR MH 4' RIM = 352.24 INV IN = 341.94 INV OUT = 341.74	8" PVC INV.=341.94	8" PVC 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" PVC 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 = 345.20 INV IN = 345.20 INV OUT = 344.54	8" SDR 26 INV.=345.20 8" DIP INV.=345.20	8" SDR 26 INV.=344.54
MH 2089	SSWR MH 4' RIM = 357.54 INV IN = 349.32 INV OUT = 349.12	8" PVC 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" PVC INV.=351.18	8" PVC 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" PVC INV.=356.02
MH 2092	SSWR MH 4' RIM = 367.80 INV IN = 357.02 INV OUT = 356.82	8" PVC 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" PVC INV.=357.69	8" PVC INV.=357.49
MH 2094	SSWR MH 4' RIM = 366.59 INV IN = 358.90 INV OUT = 358.70	8" PVC INV.=358.90	8" PVC INV.=358.70
MH 2095	SSWR MH 4' RIM = 367.73 INV IN = 359.71 INV IN = 359.51 INV OUT = 359.31	8" PVC INV.=359.71 8" PVC INV.=359.51	8" PVC INV.=359.31
MH 2096	SSWR MH 4' RIM = 373.78 INV IN = 363.42 INV IN = 364.03 INV OUT = 362.33	8" PVC INV.=363.42 8" PVC INV.=364.03	8" PVC INV.=362.33
MH 2097	SSWR MH 4' RIM = 381.39 INV IN = 372.29 INV OUT = 372.09	8" PVC INV.=372.29	8" PVC INV.=372.09
MH 2098	SSWR MH 4' RIM = 388.87 INV IN = 377.92 INV OUT = 377.67	8" PVC INV.=377.92	8" PVC INV.=377.67
MH 2099	SSWR MH 4' RIM = 387.14 INV IN = 378.78 INV OUT = 378.58	8" PVC INV.=378.78	8" PVC INV.=378.58
MH 2100	SSWR MH 4' RIM = 386.29 INV OUT = 379.34		8" PVC INV.=379.34
MH 2110	SSWR MH 4' RIM = 375.00 INV IN = 366.12 INV OUT = 365.92	8" PVC INV.=366.12	8" PVC INV.=365.92
MH 2111	SSWR MH 4' RIM = 374.79 INV IN = 367.08 INV OUT = 366.88	8" PVC INV.=367.08	8" PVC INV.=366.88
MH 2112	SSWR MH 4' RIM = 374.00 INV OUT = 367.56		8" PVC INV.=367.56
MH 2200	SSWR MH 4' RIM = 368.37 INV IN = 361.77 INV IN = 360.27 INV OUT = 360.07	8" PVC INV.=361.77 8" PVC INV.=360.27	8" PVC INV.=360.07

SSWR - STRUCTURE TABLE

STRUCTURE NAME:	DESCRIPTION	PIPES IN:	PIPES OUT
MH 2201	SSWR MH 4' RIM = 372.52 INV IN = 364.50 INV OUT = 362.80	8" PVC INV.=364.50	8" PVC 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" PVC INV.=366.45	8" PVC 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" PVC INV.=366.88
MH 2300	SSWR MH 4' RIM = 373.31 INV IN = 366.20 INV OUT = 366.00	8" PVC INV.=366.20	8" PVC INV.=366.00
MH 2301	SSWR MH 4' RIM = 375.81 INV IN = 368.57 INV OUT = 368.37	8" PVC INV.=368.57	8" PVC INV.=368.37
MH 2302	SSWR MH 4' RIM = 376.97 INV IN = 369.64 INV OUT = 369.44	8" PVC INV.=369.64	8" PVC INV.=369.44
MH 2303	SSWR MH 4' RIM = 377.58 INV IN = 370.14 INV IN = 370.50 INV OUT = 369.94	8" PVC INV.=370.14 8" PVC INV.=370.50	8" PVC 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" PVC INV.=371.27
MH 2305	SSWR MH 4' RIM = 378.75 INV IN = 371.92 INV OUT = 370.72	8" PVC INV.=371.92	8" PVC INV.=370.72
MH 2306	SSWR MH 4' RIM = 378.50 INV OUT = 372.45		8" PVC INV.=372.45
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 2406	SSWR MH 6' RIM = 370.35 INV IN = 346.56 INV OUT = 346.36	8" DIP INV.=346.56	8" DIP INV.=346.36
MH 2407	SSWR MH 6' RIM = 369.82 INV IN = 347.39 INV OUT = 347.19	8" DIP INV.=347.39	8" DIP INV.=347.19
MH 2408	SSWR MH 5' RIM = 367.77 INV IN = 350.46 INV IN = 348.66 INV OUT = 348.46	8" SDR 26 INV.=350.46 8" SDR 26 INV.=348.66	8" DIP INV.=348.46
MH 2409	SSWR MH 5' RIM = 374.76 INV OUT = 357.25		8" SDR 26 INV.=357.25
MH 2410	SSWR MH 4' RIM = 359.99 INV IN = 349.74 INV OUT = 349.54	8" PVC INV.=349.74	8" SDR 26 INV.=349.54
MH 2411	SSWR MH 4' RIM = 358.00 INV OUT = 350.47		8" PVC INV.=350.47
MH 2500	SSWR MH 4' RIM = 363.57 INV IN = 352.85 INV OUT = 352.65	8" PVC INV.=352.85	8" SDR 26 INV.=352.65
MH 2501	SSWR MH 4' RIM = 367.90 INV IN = 359.70 INV OUT = 359.50	8" PVC INV.=359.70	8" PVC INV.=359.50
MH 2502	SSWR MH 4' RIM = 370.88 INV IN = 361.52 INV OUT = 361.32	8" PVC INV.=361.52	8" PVC INV.=361.32
MH 2503	SSWR MH 4' RIM = 373.79 INV OUT = 364.20		8" PVC INV.=364.20

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

City of Raleigh
Public Utilities Department Permit # ____________________

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

City of Raleigh
Public Utilities Department Permit # ____________________

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

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

Digitally signed by Jakob Klein
Date: 2025.06.02 15:00:16-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

SEAL 56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:
SCHEDULE

SHEET NO.:
C7.0

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\7.0 Schedule.dwg
June 2, 2025

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"	112.66	1.00%	370.66	371.79
CB 318	CB 317	15"	27.18	0.50%	372.86	373.00
CB 319	CB 317	18"	46.25	1.00%	371.99	372.45
CB 321	CB 319	15"	72.18	0.76%	373.45	374.00
CB 325	CB 321	15"	92.96	0.50%	374.60	375.06
* CB 330	CB 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
CB 334B	CB 334	15"	5.49	1.00%	364.16	364.21
FES 331	CB 330	24"	132.30	0.50%	363.12	363.78
YI 310	CB 309	15"	163.44	1.00%	365.80	367.43
YI 316B	CB 315	15"	112.85	1.18%	371.88	373.21
YI 325A	CB 325	15"	150.51	0.50%	375.27	376.02

SCM 3 Outfall - PIPE SUMMARY

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

*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	YI 501A	30"	152.25	2.00%	347.61	350.65
CB 503	CB 502	15"	27.00	0.52%	353.30	353.44
CB 504	CB 502	24"	215.40	4.69%	351.06	361.17
CB 505	CB 504	18"	48.26	0.99%	361.37	361.85
CB 506	CB 505	18"	27.00	0.50%	362.35	362.49
CB 507	CB 506	15"	49.03	0.50%	362.69	362.94
CB 508	CB 507	15"	27.00	0.50%	363.14	363.28
CB 510	CB 511	15"	27.00	0.89%	364.00	364.24
CB 511	CB 504	15"	64.21	1.32%	362.27	363.12
CB 513	CB 505	15"	94.51	0.50%	362.69	363.16
CB 514	CB 508	15"	184.91	3.50%	363.48	369.95
CB 515	CB 514	15"	27.53	1.00%	370.15	370.43
CB 516	CB 517	15"	27.00	1.50%	367.09	367.49
CB 517	CB 511	15"	98.95	3.00%	363.62	366.59
FES 516A	CB 516	15"	36.50	1.62%	367.70	368.29
YI 501	FES 500	30"	45.55	0.50%	346.92	347.15
YI 501A	YI 501	30"	11.31	0.50%	347.35	347.41
YI 501B	YI 501A	15"	106.74	0.50%	347.82	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 = 382.61 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 = 367.09 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 = 376.53 INV IN = 371.99 INV IN = 372.86 INV OUT = 371.79
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 = 374.60 INV OUT = 374.00
CB 325	RIM = 378.78 INV IN = 375.27 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
CB 334B	RIM = 368.78 INV OUT = 364.21
FES 300	INV IN = 360.94
FES 331	INV OUT = 363.78
YI 310	RIM = 370.35 INV OUT = 367.43
YI 316B	RIM = 376.09 INV OUT = 373.21
YI 325A	RIM = 379.46 INV OUT = 376.02

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 = 350.65
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 = 374.03 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 = 346.92
FES 516A	INV OUT = 368.29
YI 501	RIM = 350.87 INV IN = 347.35 INV OUT = 347.15
YI 501A	RIM = 352.03 INV IN = 347.61 INV IN = 347.82 INV OUT = 347.41
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 = 367.63 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

C-3881

Digitally signed by Jakob Klein
Date: 2025.06.02 15:00:17-04'00'

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JAKOB P. KLEIN 56528

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

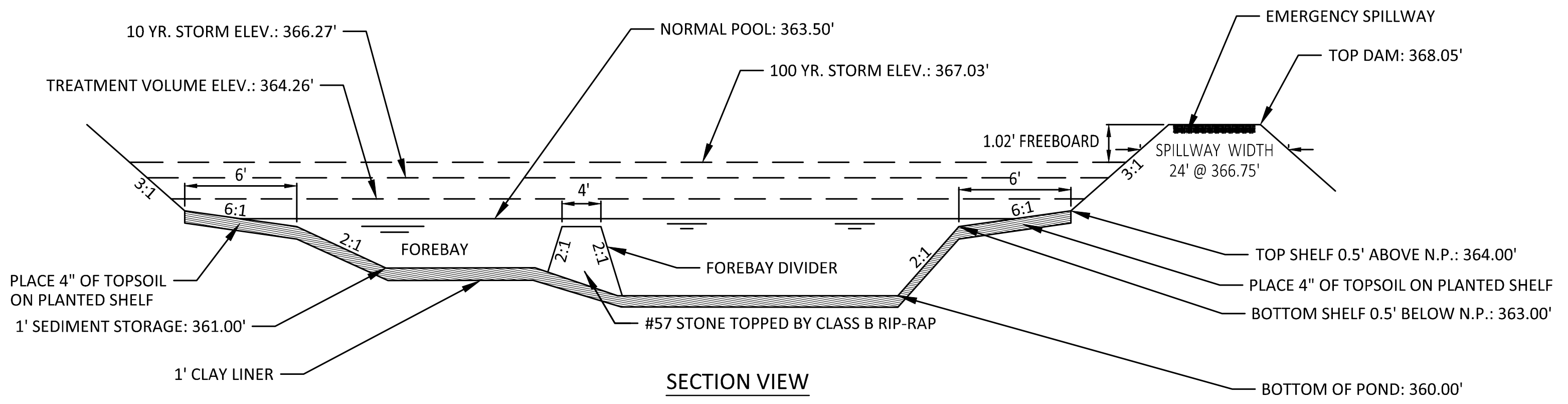
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

SCHEDULE

SHEET NO.: **C7.1**

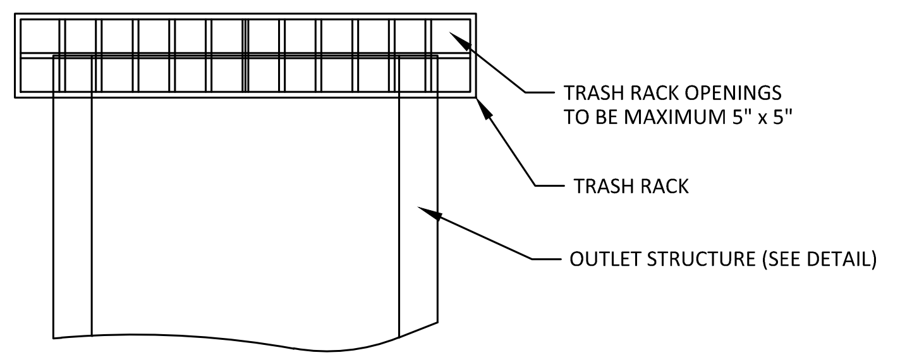
North Carolina 811
www.nc811.org
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm


10 YR. STORM ELEV.: 366.27'
TREATMENT VOLUME ELEV.: 364.26'
NORMAL POOL: 363.50'
100 YR. STORM ELEV.: 367.03'
EMERGENCY SPILLWAY
TOP DAM: 368.05'
1.02' FREEBOARD
SPILLWAY WIDTH
24' @ 366.75'
3:1
6'
6:1
4'
2:1
FOREBAY
PLACE 4" OF TOPSOIL ON PLANTED SHELF
1' SEDIMENT STORAGE: 361.00'
1' CLAY LINER
FOREBAY DIVIDER
#57 STONE TOPPED BY CLASS B RIP-RAP
TOP SHELF 0.5' ABOVE N.P.: 364.00'
PLACE 4" OF TOPSOIL ON PLANTED SHELF
BOTTOM SHELF 0.5' BELOW N.P.: 363.00'
BOTTOM OF POND: 360.00'

SECTION VIEW

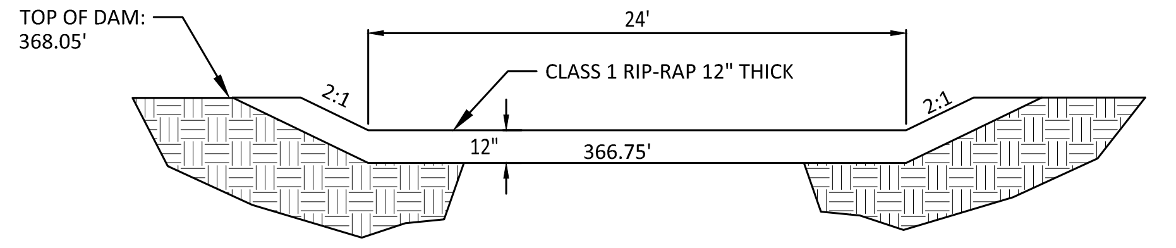
NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

01 RETENTION POND
NTS

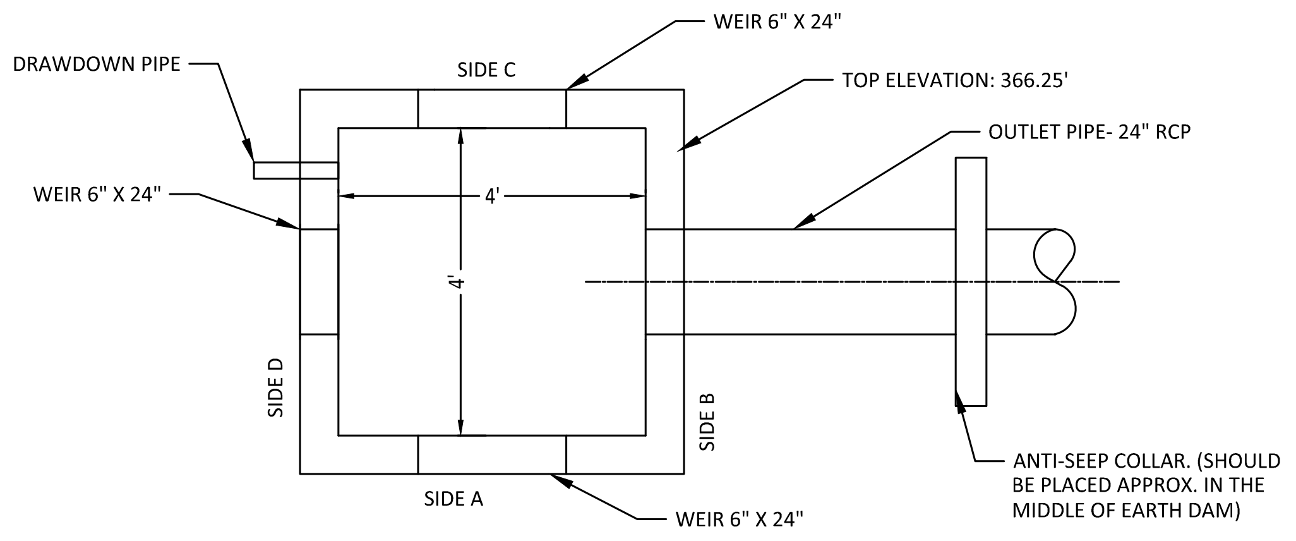


NOTES:
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
2. TRASH RACK SHALL BE FASTENED TO EACH SIDE OF THE STRUCTURE AT AT LEAST 2 POINTS. IT SHALL BE EASILY REMOVED FOR MAINTENANCE OR ENTRY INTO THE STRUCTURE.
3. TRASH RACK SHALL ACCOMMODATE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

03 TRASH RACK
NTS

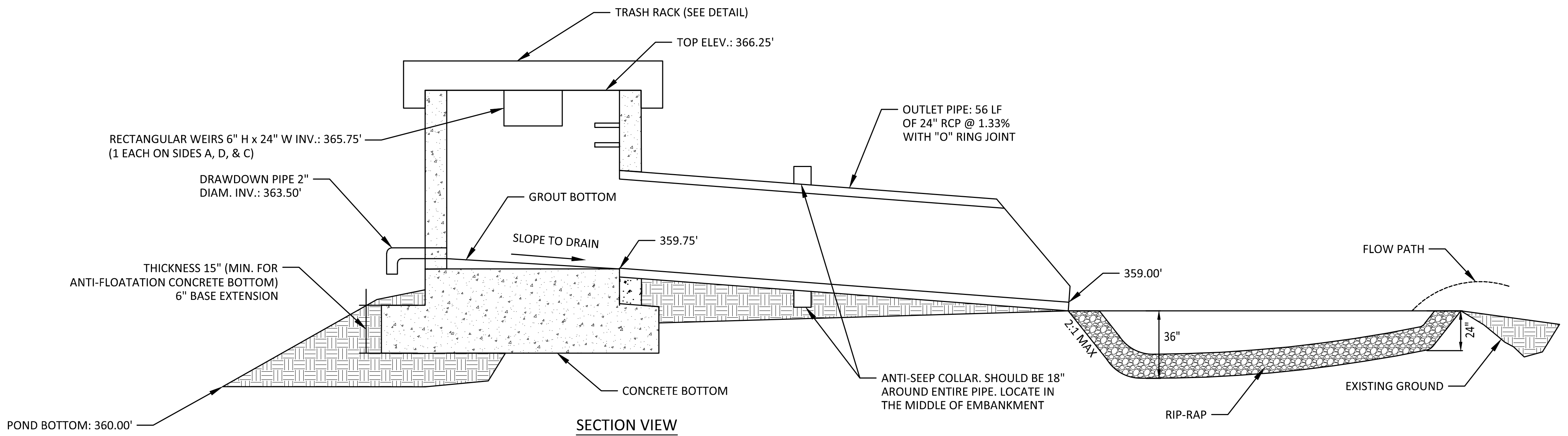


02 EMERGENCY SPILLWAY SECTION
NTS



PLAN VIEW

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

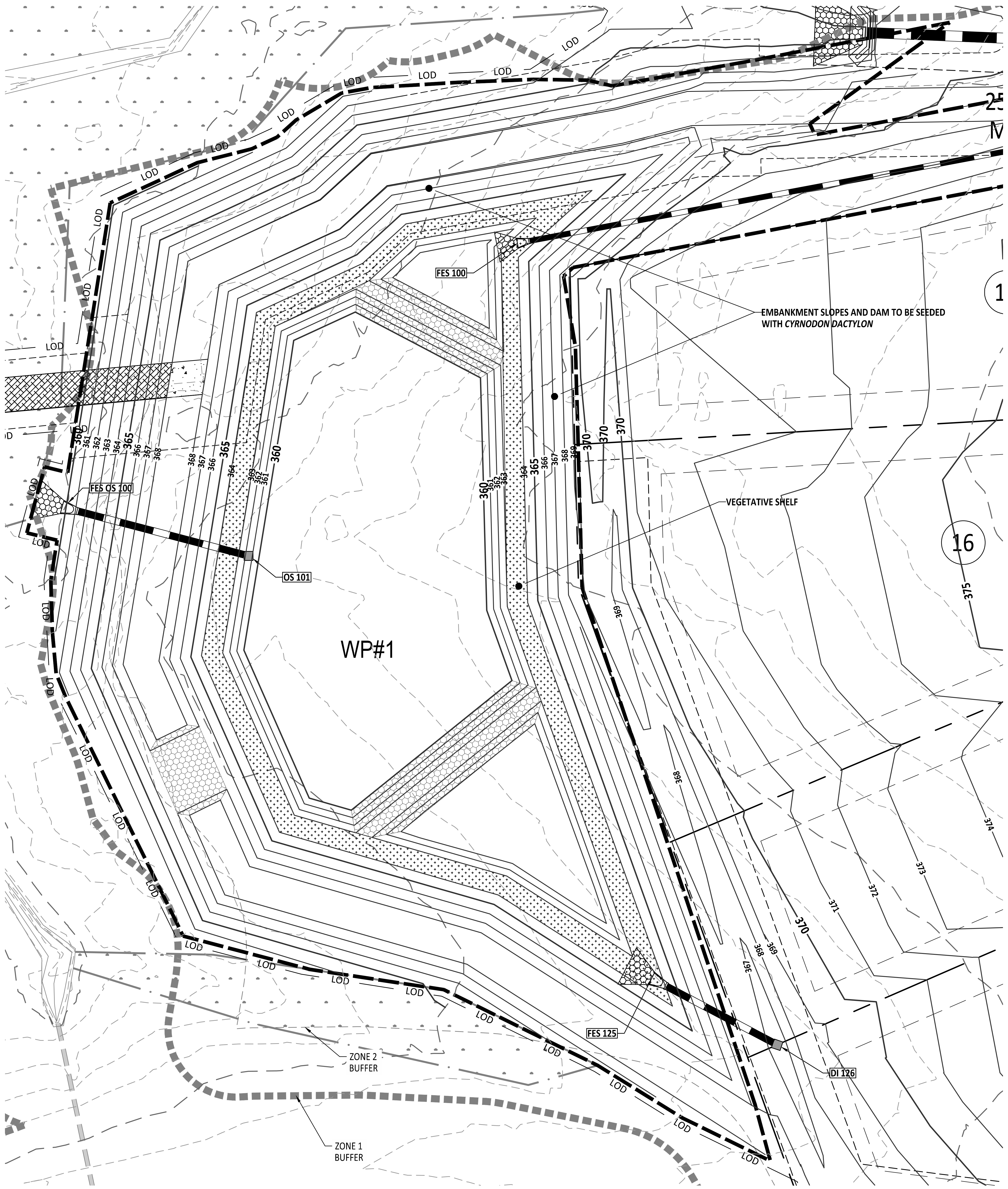


SECTION VIEW

04 OUTLET STRUCTURE #1
NTS

June 2, 2025

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\8.0-8.1 SCM Plan.dwg



PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

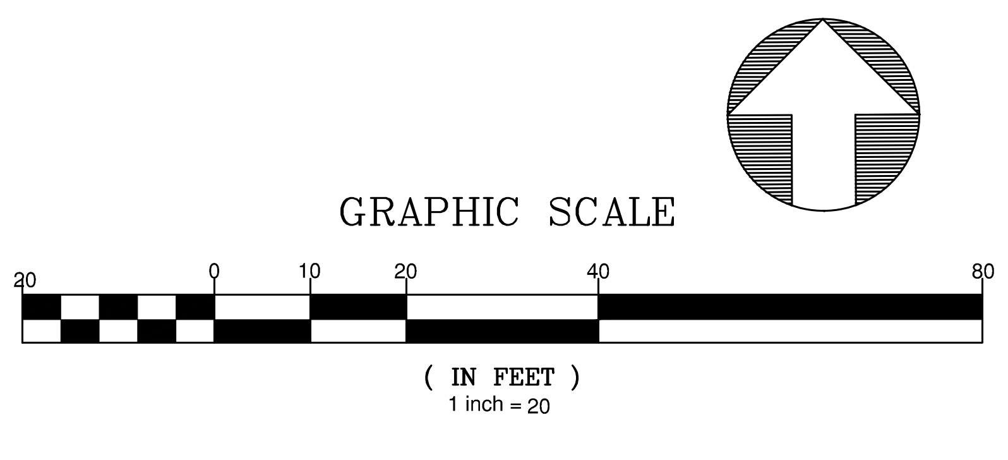
▩ VEGETATED SHELF
(HERB.)

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

LANDSCAPE PLAN:

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

CALCULATION: 50 PLANTS PER 200 SF



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Raleigh, NC 27607
919-469-1101

AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by
Jakob Klein
Date: 2025.06.02
15:00:18-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

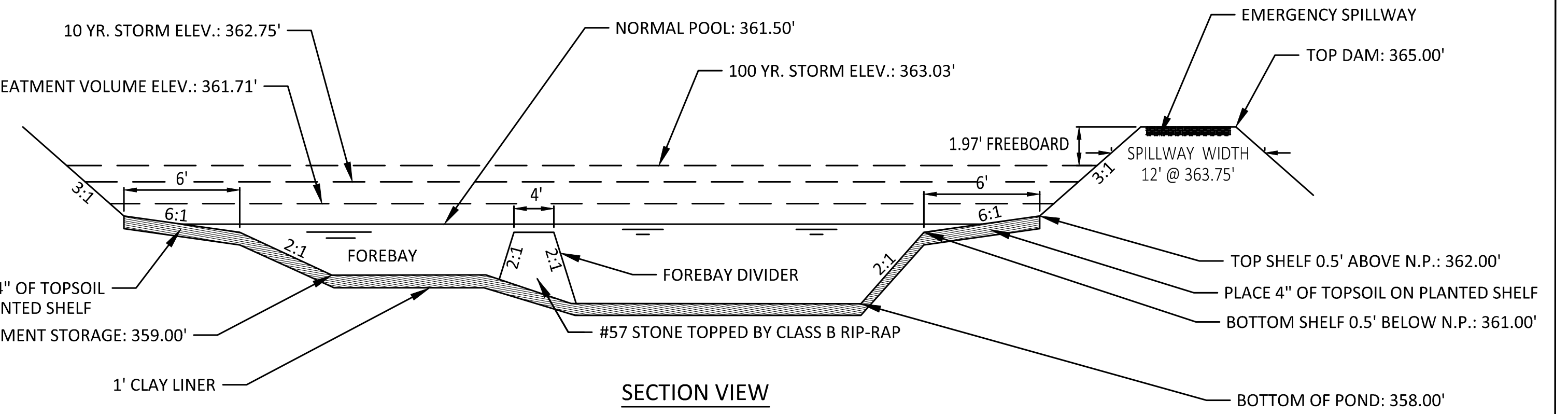
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

SCM 1

SHEET NO.:

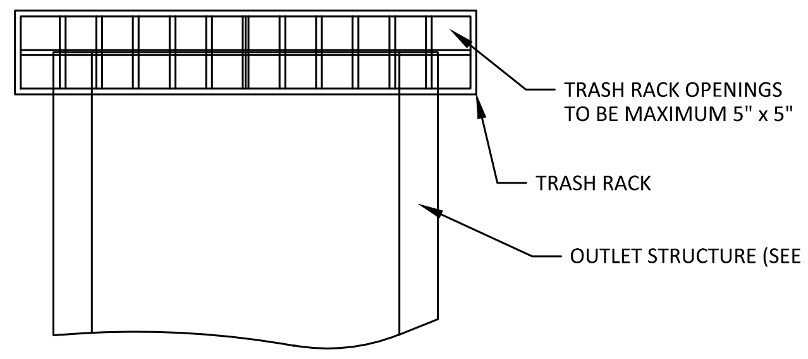
C8.0


10 YR. STORM ELEV.: 362.75'
TREATMENT VOLUME ELEV.: 361.71'
NORMAL POOL: 361.50'
100 YR. STORM ELEV.: 363.03'
EMERGENCY SPILLWAY
TOP DAM: 365.00'
1.97' FREEBOARD
SPILLWAY WIDTH 12' @ 363.75'
3:1
6'
6:1
4'
2:1
FOREBAY
FOREBAY DIVIDER
PLACE 4" OF TOPSOIL ON PLANTED SHELF
1' SEDIMENT STORAGE: 359.00'
1' CLAY LINER
#57 STONE TOPPED BY CLASS B RIP-RAP
TOP SHELF 0.5' ABOVE N.P.: 362.00'
PLACE 4" OF TOPSOIL ON PLANTED SHELF
BOTTOM SHELF 0.5' BELOW N.P.: 361.00'
BOTTOM OF POND: 358.00'

SECTION VIEW

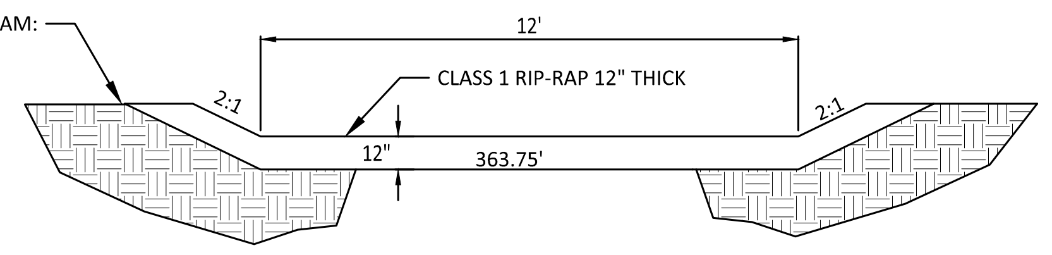
NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

01 RETENTION POND
NTS

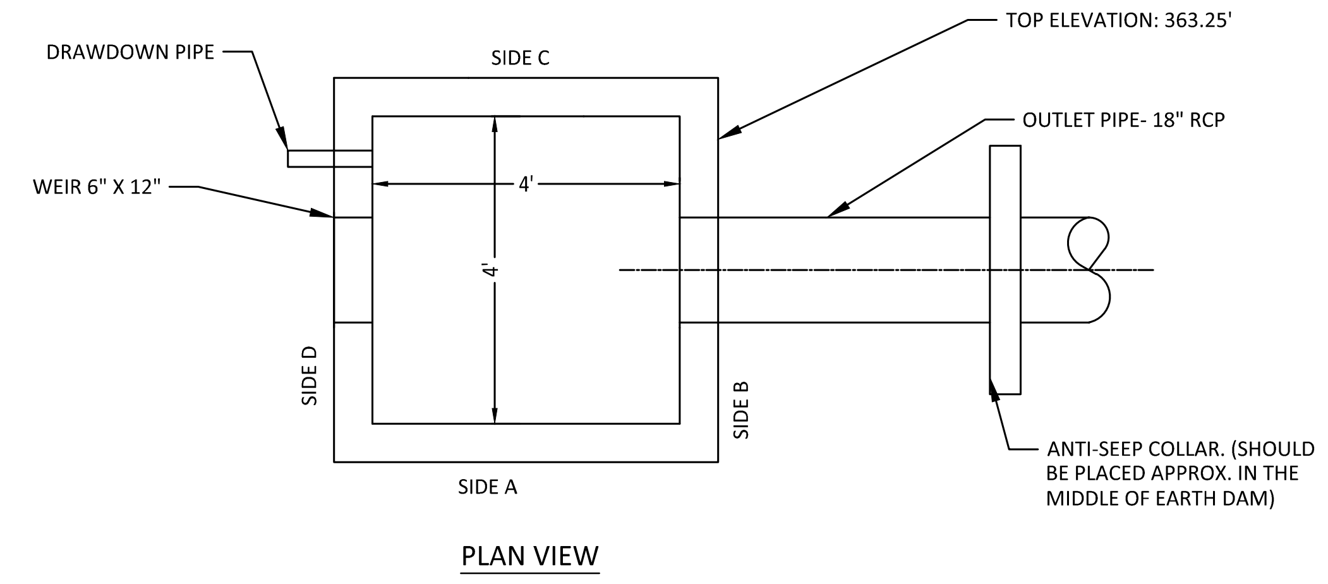

TRASH RACK OPENINGS TO BE MAXIMUM 5" x 5"
TRASH RACK
OUTLET STRUCTURE (SEE DETAIL)

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

03 TRASH RACK
NTS

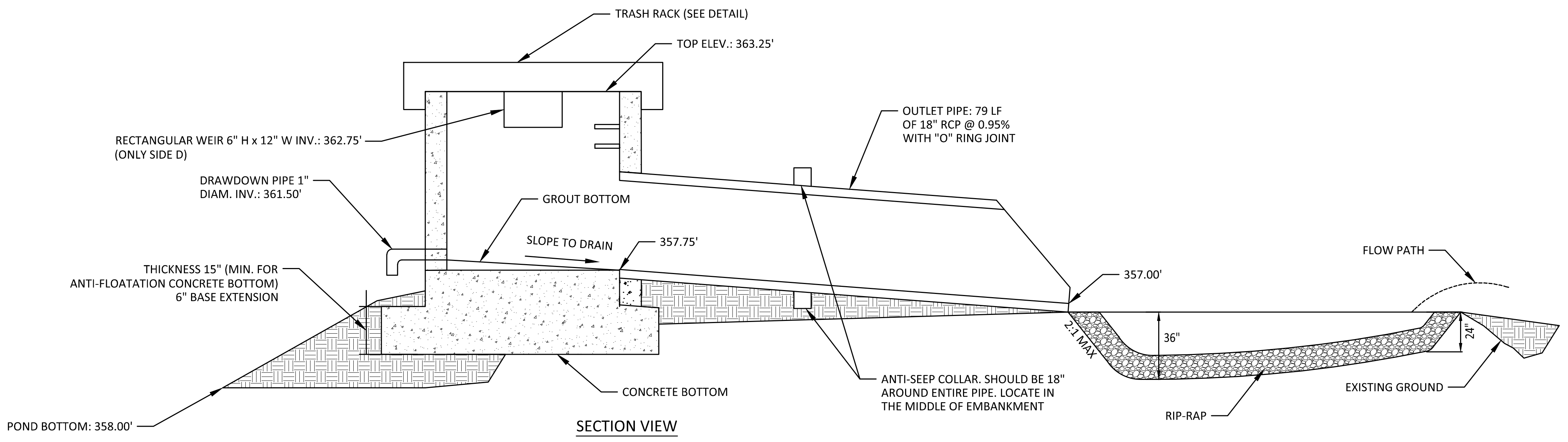


02 EMERGENCY SPILLWAY SECTION
NTS



PLAN VIEW

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

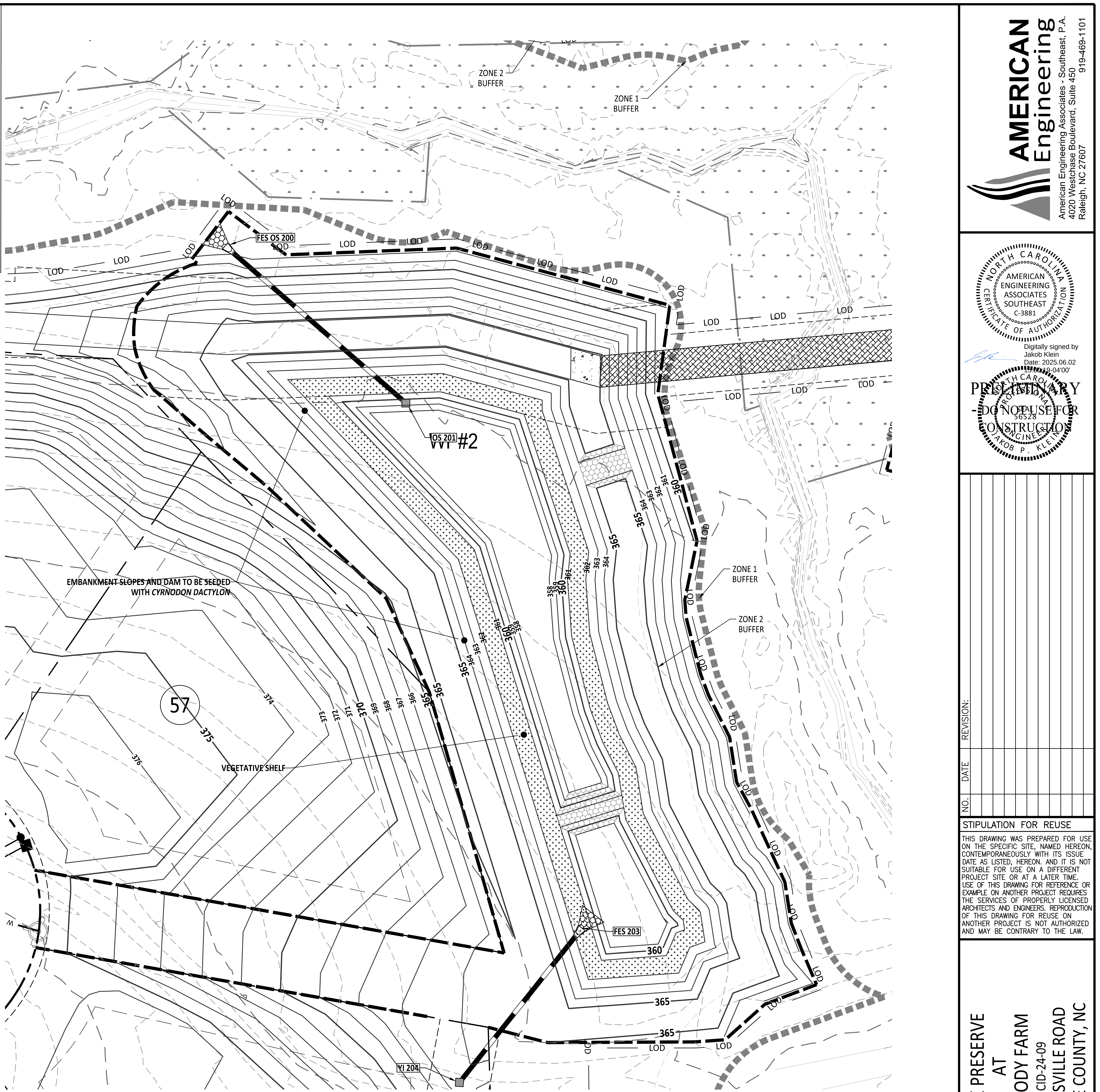

TRASH RACK (SEE DETAIL)
TOP ELEV.: 363.25'
RECTANGULAR WEIR 6" H x 12" W INV.: 362.75' (ONLY SIDE D)
DRAWDOWN PIPE 1" DIAM. INV.: 361.50'
GROUT BOTTOM
SLOPE TO DRAIN
357.75'
OUTLET PIPE: 79 LF OF 18" RCP @ 0.95% WITH "O" RING JOINT
THICKNESS 15" (MIN. FOR ANTI-FLOATATION CONCRETE BOTTOM) 6" BASE EXTENSION
357.00'
FLOW PATH
2:1 MAX
36"
24"
CONCRETE BOTTOM
ANTI-SEEP COLLAR. SHOULD BE 18" AROUND ENTIRE PIPE. LOCATE IN THE MIDDLE OF EMBANKMENT
EXISTING GROUND
RIP-RAP
POND BOTTOM: 358.00'

SECTION VIEW

04 OUTLET STRUCTURE #2
NTS

June 2, 2025

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\8.0-8.1 SCM Plan.dwg



PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

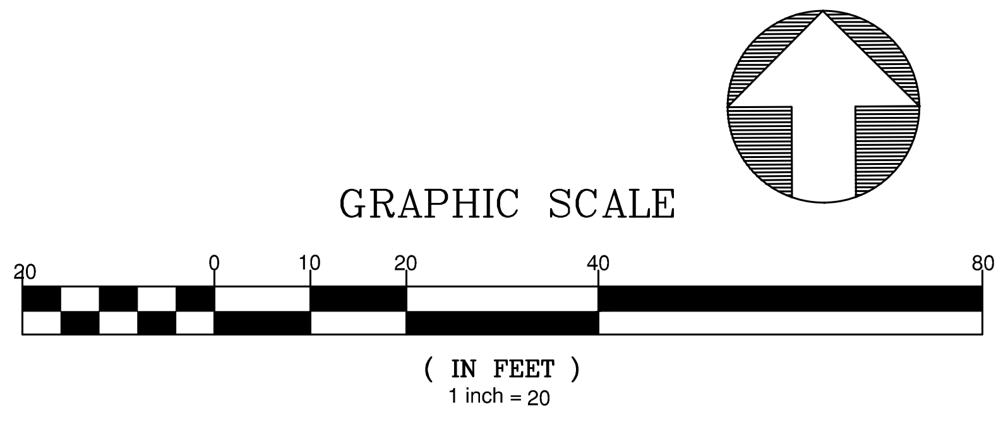
▨ VEGETATED SHELF
(HERB.)

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

LANDSCAPE PLAN:

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

CALCULATION: 50 PLANTS PER 200 SF



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

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C-3881

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Jakob Klein
Date: 2025.06.02
15:00:19-04'00'

56528
JAKOB P. KLEIN

PRELIMINARY
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NO.	DATE	REVISION:

STIPULATION FOR REUSE

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AT
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WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:
SCM 2

North Carolina 811
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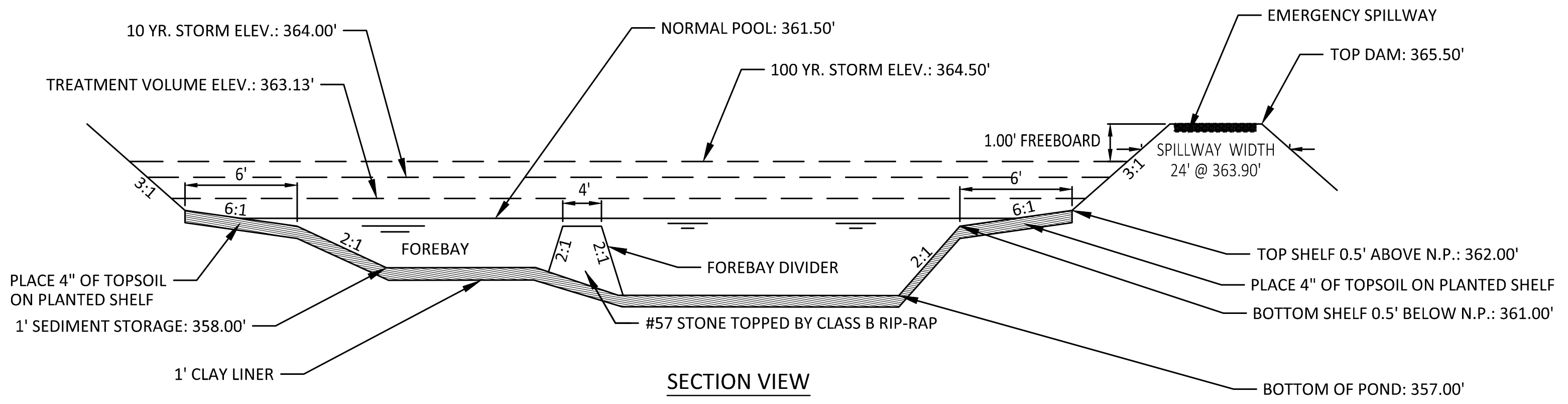
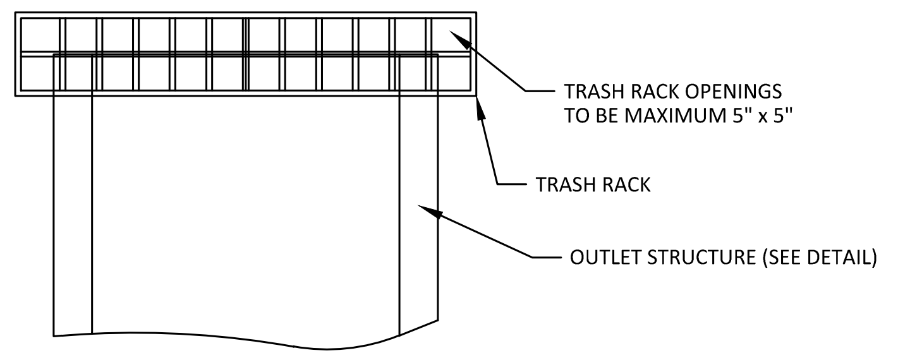

10 YR. STORM ELEV.: 364.00'
TREATMENT VOLUME ELEV.: 363.13'
NORMAL POOL: 361.50'
100 YR. STORM ELEV.: 364.50'
EMERGENCY SPILLWAY
TOP DAM: 365.50'
1.00' FREEBOARD
SPILLWAY WIDTH 24' @ 363.90'
3:1
6'
6:1
4'
2:1
FOREBAY
FOREBAY DIVIDER
PLACE 4" OF TOPSOIL ON PLANTED SHELF
1' SEDIMENT STORAGE: 358.00'
1' CLAY LINER
#57 STONE TOPPED BY CLASS B RIP-RAP
TOP SHELF 0.5' ABOVE N.P.: 362.00'
PLACE 4" OF TOPSOIL ON PLANTED SHELF
BOTTOM SHELF 0.5' BELOW N.P.: 361.00'
BOTTOM OF POND: 357.00'

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


TRASH RACK OPENINGS TO BE MAXIMUM 5" x 5"
TRASH RACK
OUTLET STRUCTURE (SEE DETAIL)

NOTES:
1. TRASH RACK SHALL BE 6" CLEAR OF STRUCTURE TOP AND SIDES. THE TRASH RACK NEED NOT COVER THE TREATMENT OUTLET PIPE.
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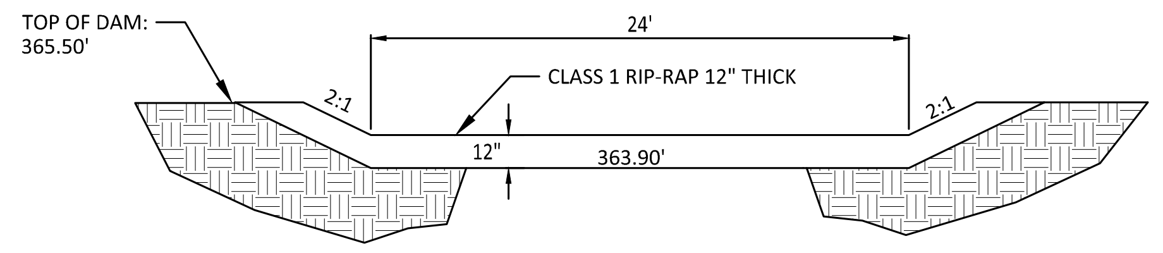
3. TRASH RACK SHALL ACCOMMODATE VALVE SHAFT THOUGH AN OPENING.
4. TRASH RACK SHALL BE MADE OF DURABLE MATERIAL WHICH WILL NOT RUST OR DETERIORATE IN SUNLIGHT.
5. TOP OF TRASH RACK SHALL HAVE A GRID OF BARS (MAX. 6"x6").

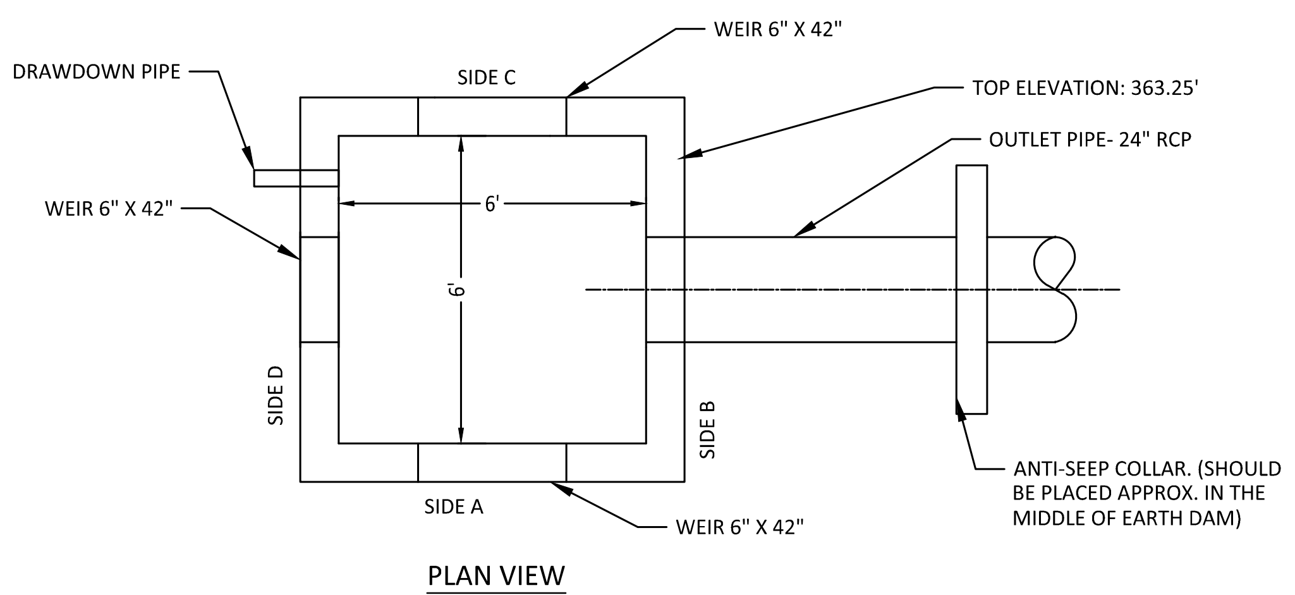
02 TRASH RACK

NTS



03 EMERGENCY SPILLWAY SECTION

NTS



PLAN VIEW

NOTES:
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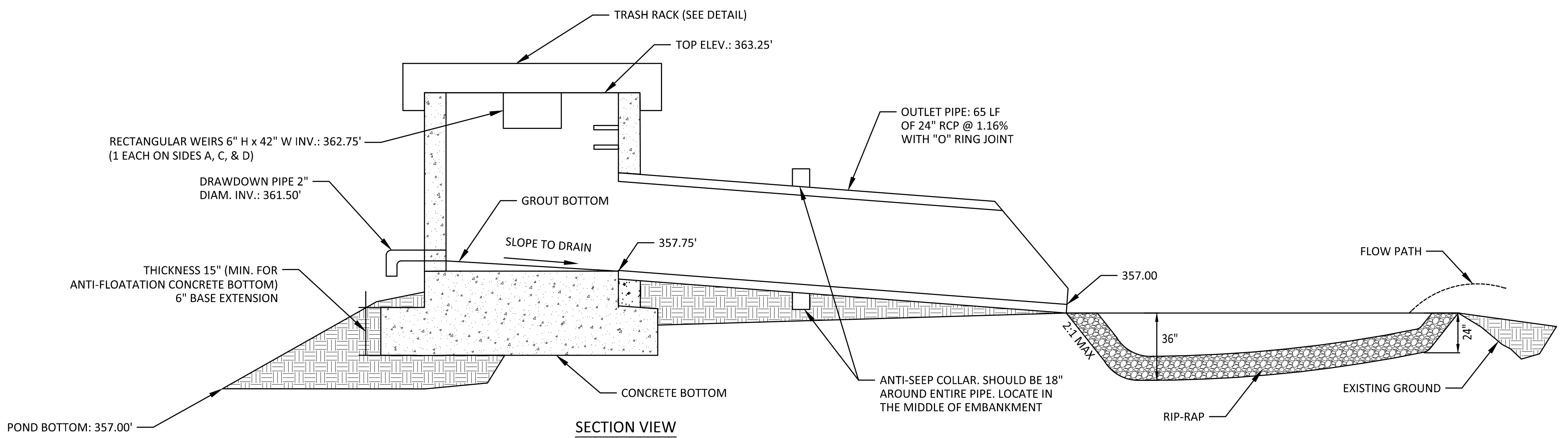
2. OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED TO ALLOW UP TO 0.3' OF VERTICAL MOVEMENT. WHEN INSTALLED, THE EXCESS OPENING SHALL BE FILLED 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.

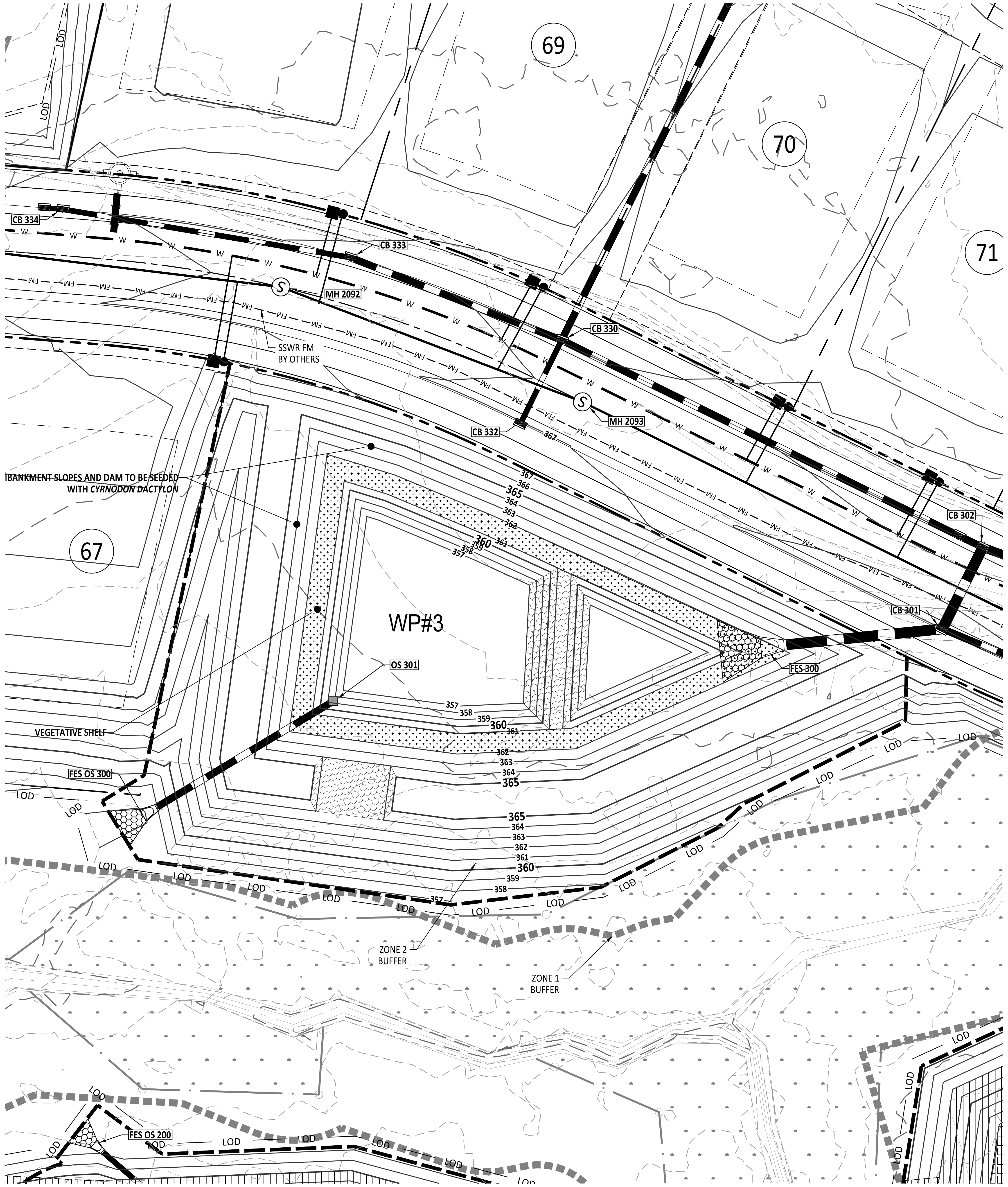

TRASH RACK (SEE DETAIL)
TOP ELEV.: 363.25'
RECTANGULAR WEIRS 6" H x 42" W INV.: 362.75' (1 EACH ON SIDES A, C, & D)
DRAWDOWN PIPE 2" DIAM. INV.: 361.50'
GROUT BOTTOM
SLOPE TO DRAIN
357.75'
OUTLET PIPE: 65 LF OF 24" RCP @ 1.16% WITH "O" RING JOINT
357.00
FLOW PATH
THICKNESS 15" (MIN. FOR ANTI-FLOATATION CONCRETE BOTTOM) 6" BASE EXTENSION
2:1 MAX
36"
24"
CONCRETE BOTTOM
ANTI-SEEP COLLAR. SHOULD BE 18" AROUND ENTIRE PIPE. LOCATE IN THE MIDDLE OF EMBANKMENT
EXISTING GROUND
RIP-RAP
POND BOTTOM: 357.00'

SECTION VIEW

04 OUTLET STRUCTURE #3

NTS

June 2, 2025



PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

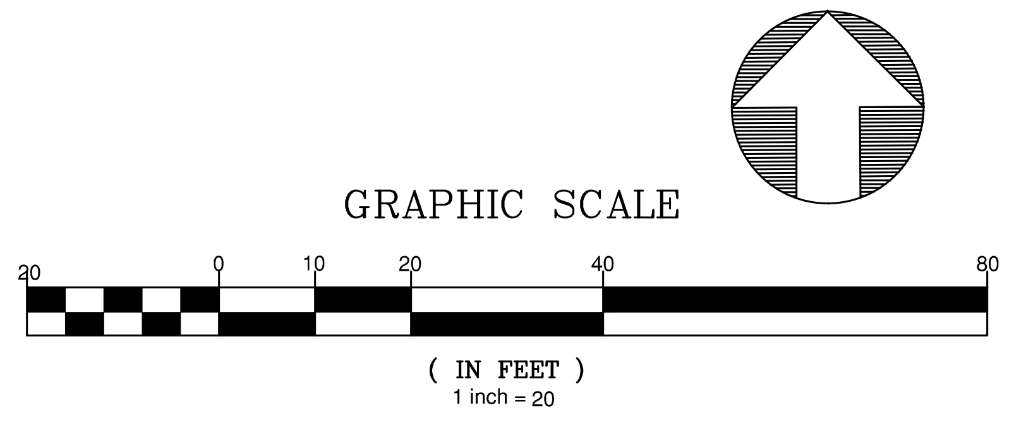
VEGETATED SHELF
(HERB.)

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

LANDSCAPE PLAN:

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

CALCULATION: 50 PLANTS PER 200 SF



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C-3881

Digitally signed by
Jakob Klein
Date: 2025.06.02
15:00:20-04'00'

56528
JAKOB P. KLEIN

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

SCM 3

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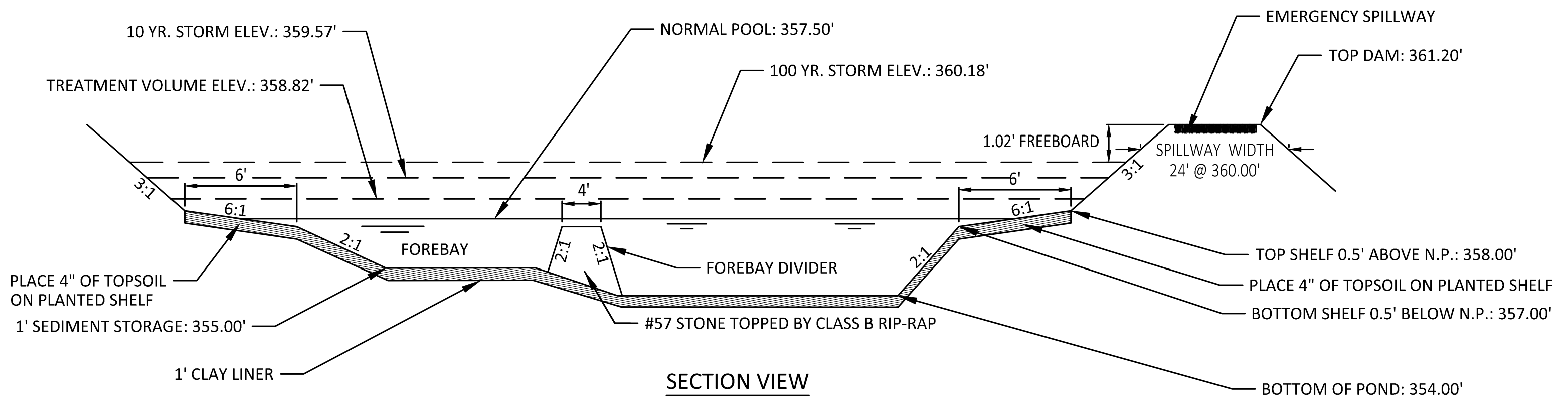
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

SHEET NO.:

C8.2

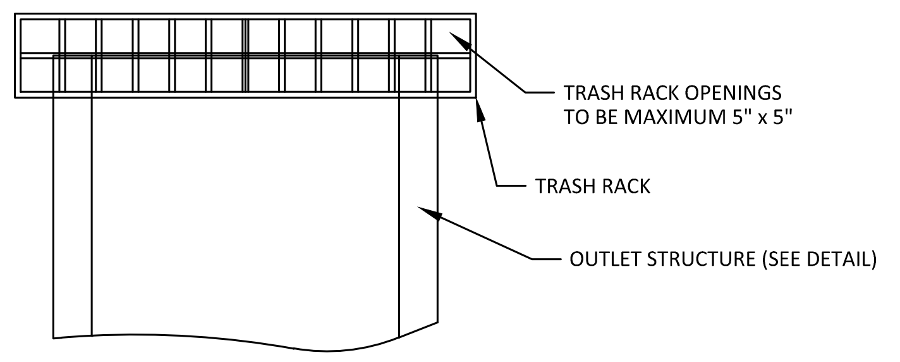

10 YR. STORM ELEV.: 359.57'
TREATMENT VOLUME ELEV.: 358.82'
NORMAL POOL: 357.50'
100 YR. STORM ELEV.: 360.18'
EMERGENCY SPILLWAY
TOP DAM: 361.20'
1.02' FREEBOARD
SPILLWAY WIDTH 24' @ 360.00'
3:1
6'
6:1
4'
2:1
FOREBAY
FOREBAY DIVIDER
PLACE 4" OF TOPSOIL ON PLANTED SHELF
1' SEDIMENT STORAGE: 355.00'
1' CLAY LINER
#57 STONE TOPPED BY CLASS B RIP-RAP
TOP SHELF 0.5' ABOVE N.P.: 358.00'
PLACE 4" OF TOPSOIL ON PLANTED SHELF
BOTTOM SHELF 0.5' BELOW N.P.: 357.00'
BOTTOM OF POND: 354.00'

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

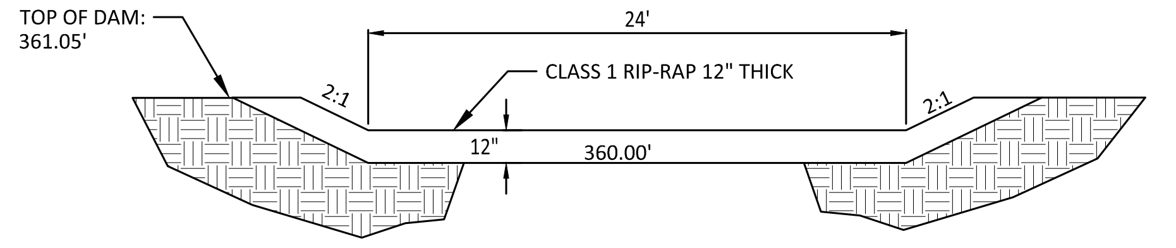
NTS


TRASH RACK OPENINGS TO BE MAXIMUM 5" x 5"
TRASH RACK
OUTLET STRUCTURE (SEE DETAIL)

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").

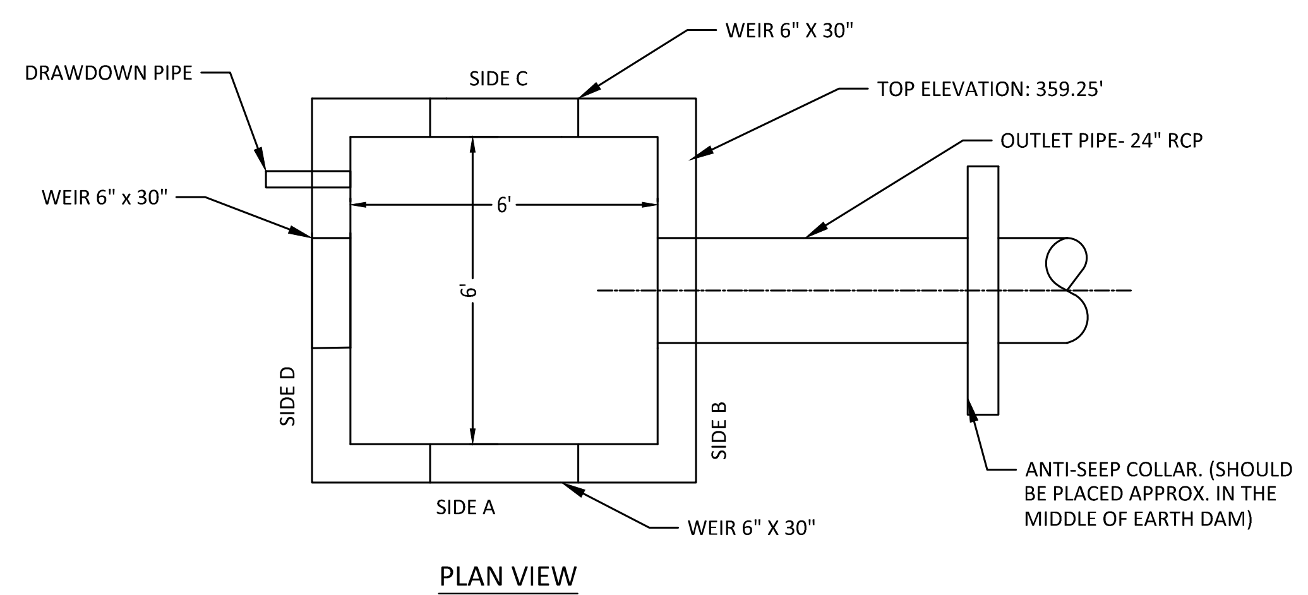
02 TRASH RACK

NTS



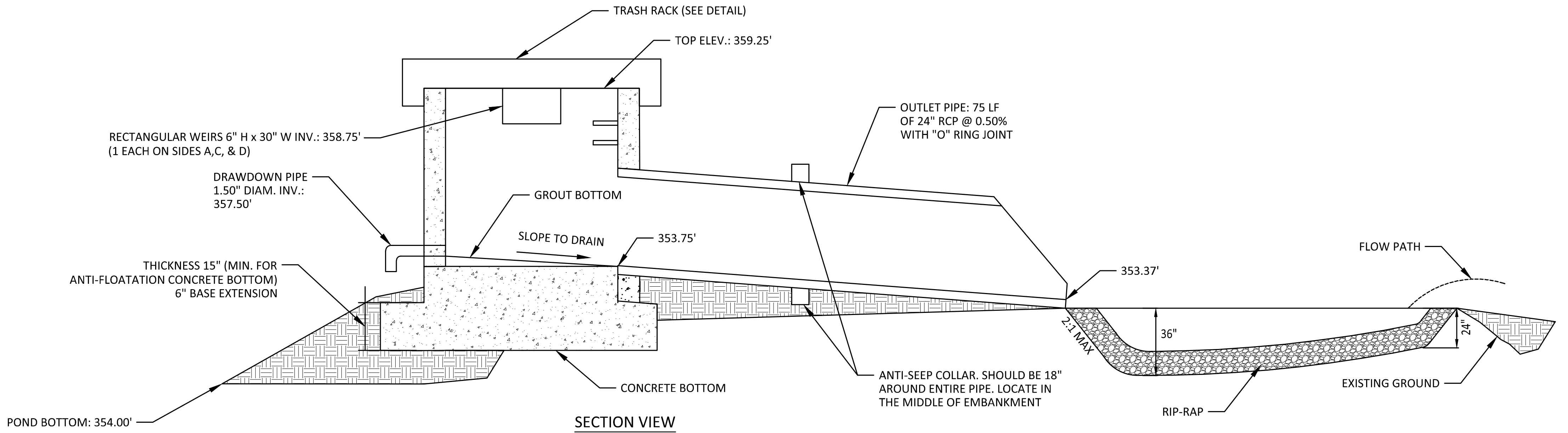
03 EMERGENCY SPILLWAY SECTION

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.


TRASH RACK (SEE DETAIL)
TOP ELEV.: 359.25'
OUTLET PIPE: 75 LF OF 24" RCP @ 0.50% WITH "O" RING JOINT
RECTANGULAR WEIRS 6" H x 30" W INV.: 358.75' (1 EACH ON SIDES A,C, & D)
DRAWDOWN PIPE 1.50" DIAM. INV.: 357.50'
GROUT BOTTOM
SLOPE TO DRAIN
353.75'
THICKNESS 15" (MIN. FOR ANTI-FLOATATION CONCRETE BOTTOM) 6" BASE EXTENSION
353.37'
FLOW PATH
2:1 MAX
36"
24"
CONCRETE BOTTOM
ANTI-SEEP COLLAR. SHOULD BE 18" AROUND ENTIRE PIPE. LOCATE IN THE MIDDLE OF EMBANKMENT
EXISTING GROUND
RIP-RAP
POND BOTTOM: 354.00'

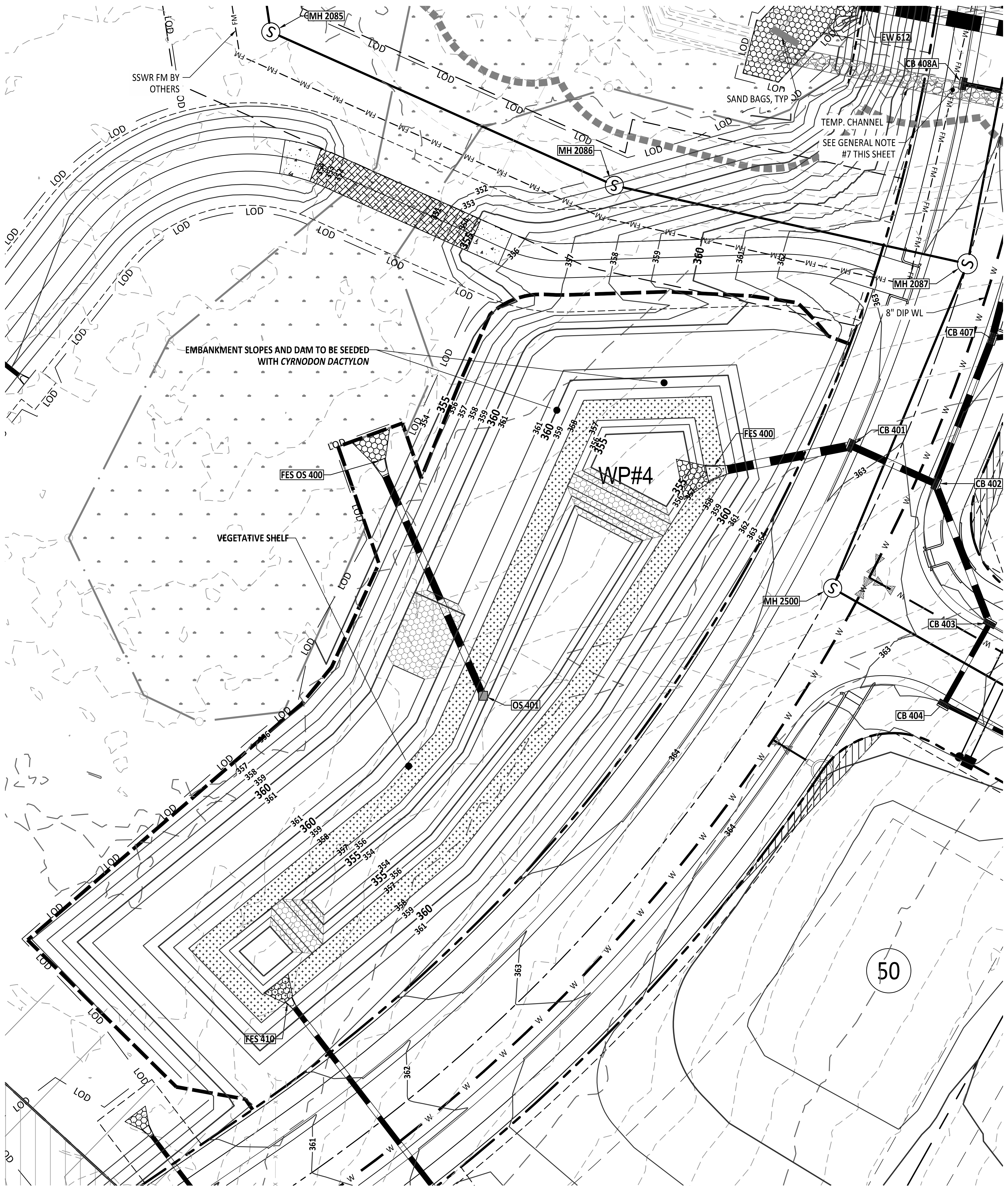
SECTION VIEW

04 OUTLET STRUCTURE #4

NTS

June 2, 2025

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\8.0-8.1 SCM Plan.dwg



PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

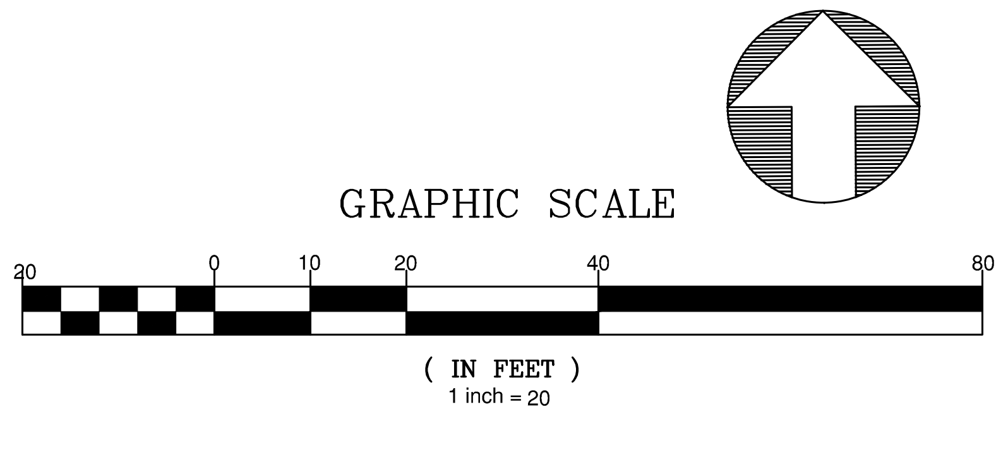
▨ VEGETATED SHELF
(HERB.)

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

LANDSCAPE PLAN:

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

CALCULATION: 50 PLANTS PER 200 SF



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

AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

Digitally signed by Jakob Klein
Date: 2025.06.02 15:00:21-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

SEAL 56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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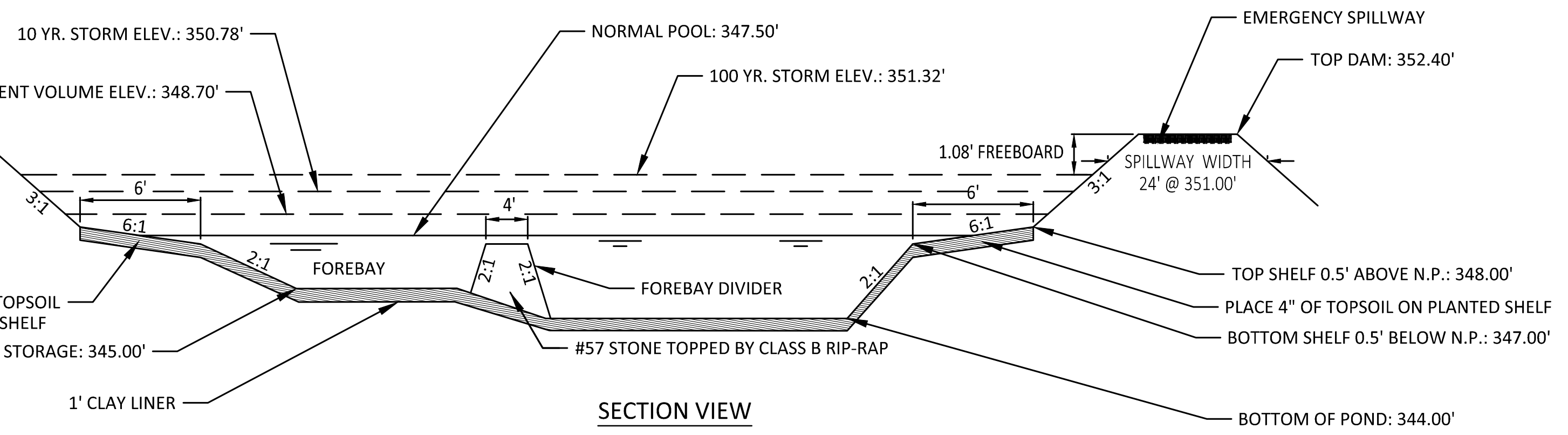
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:
SCM 4

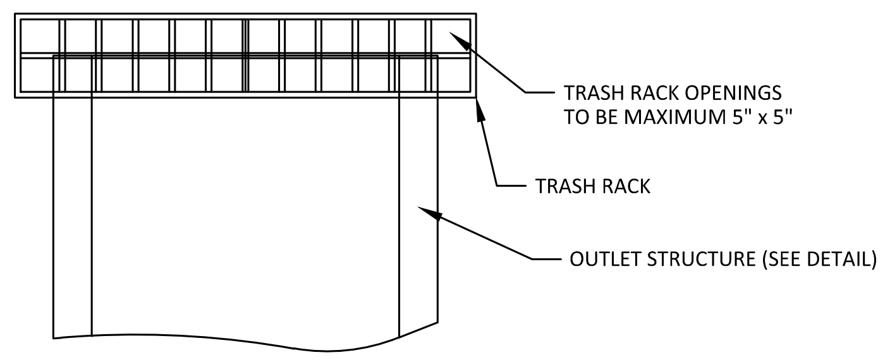
SHEET NO.:
C8.3


10 YR. STORM ELEV.: 350.78'
TREATMENT VOLUME ELEV.: 348.70'
NORMAL POOL: 347.50'
100 YR. STORM ELEV.: 351.32'
EMERGENCY SPILLWAY
TOP DAM: 352.40'
1.08' FREEBOARD
SPILLWAY WIDTH 24' @ 351.00'
3:1
6'
6:1
4'
2:1
FOREBAY
FOREBAY DIVIDER
PLACE 4" OF TOPSOIL ON PLANTED SHELF
1' SEDIMENT STORAGE: 345.00'
#57 STONE TOPPED BY CLASS B RIP-RAP
1' CLAY LINER
TOP SHELF 0.5' ABOVE N.P.: 348.00'
PLACE 4" OF TOPSOIL ON PLANTED SHELF
BOTTOM SHELF 0.5' BELOW N.P.: 347.00'
BOTTOM OF POND: 344.00'

SECTION VIEW

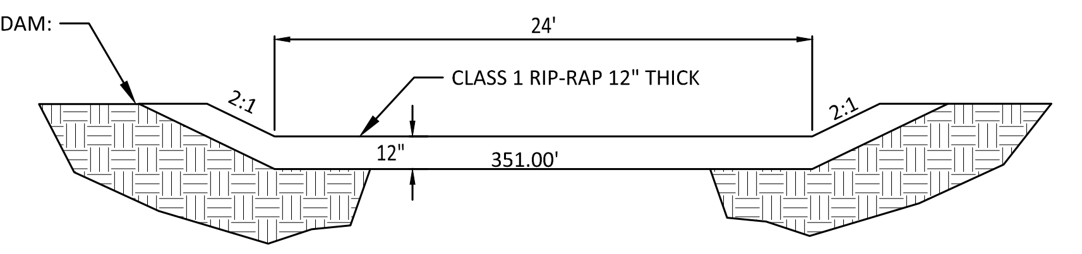
NOTES:
1. SEE SHEET 2.0 FOR SCM CONVERSION SEQUENCE.
2. FOREBAY DIVIDERS ARE TO BE INSTALLED WHILE CONVERTING FROM SEDIMENT BASIN TO WET POND.

01 RETENTION POND
NTS

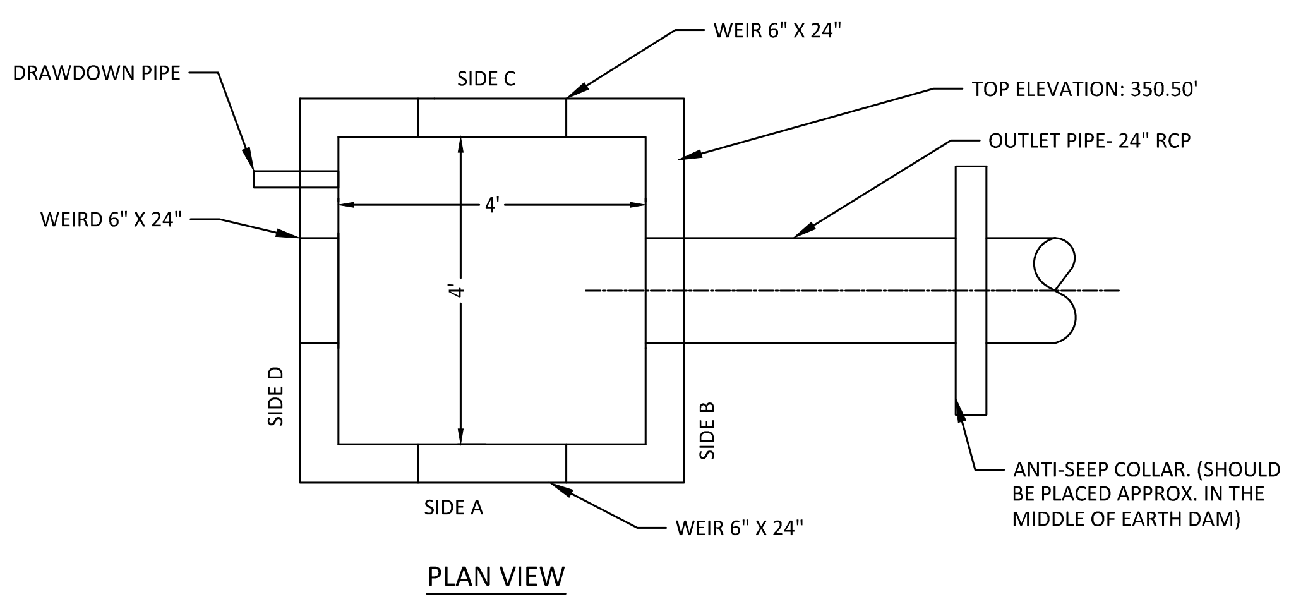

TRASH RACK OPENINGS TO BE MAXIMUM 5" x 5"
TRASH RACK
OUTLET STRUCTURE (SEE DETAIL)

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

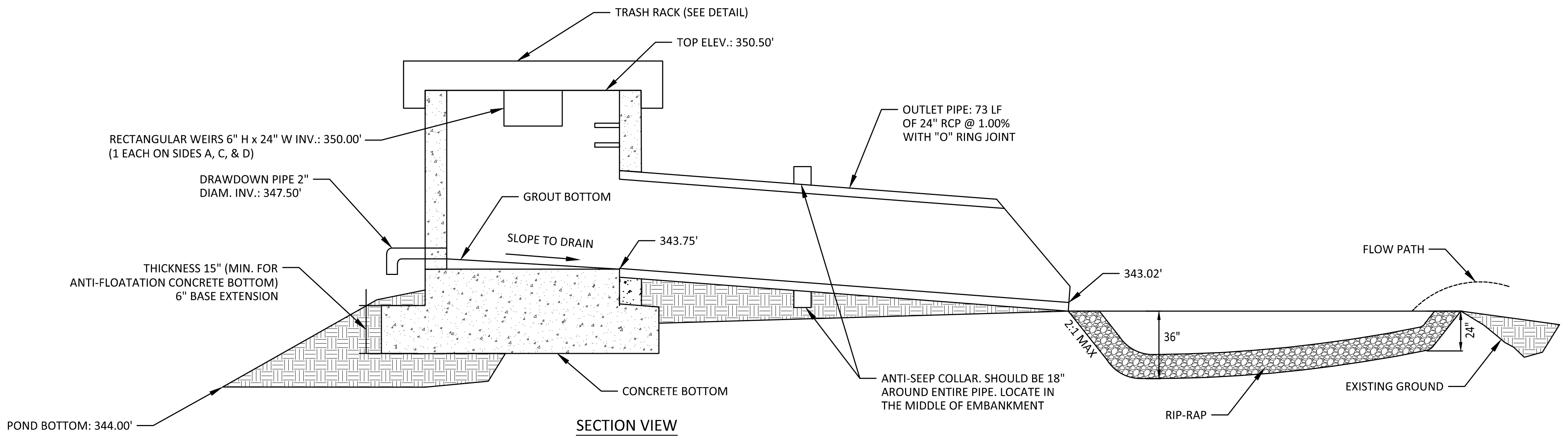


03 EMERGENCY SPILLWAY SECTION
NTS



PLAN VIEW

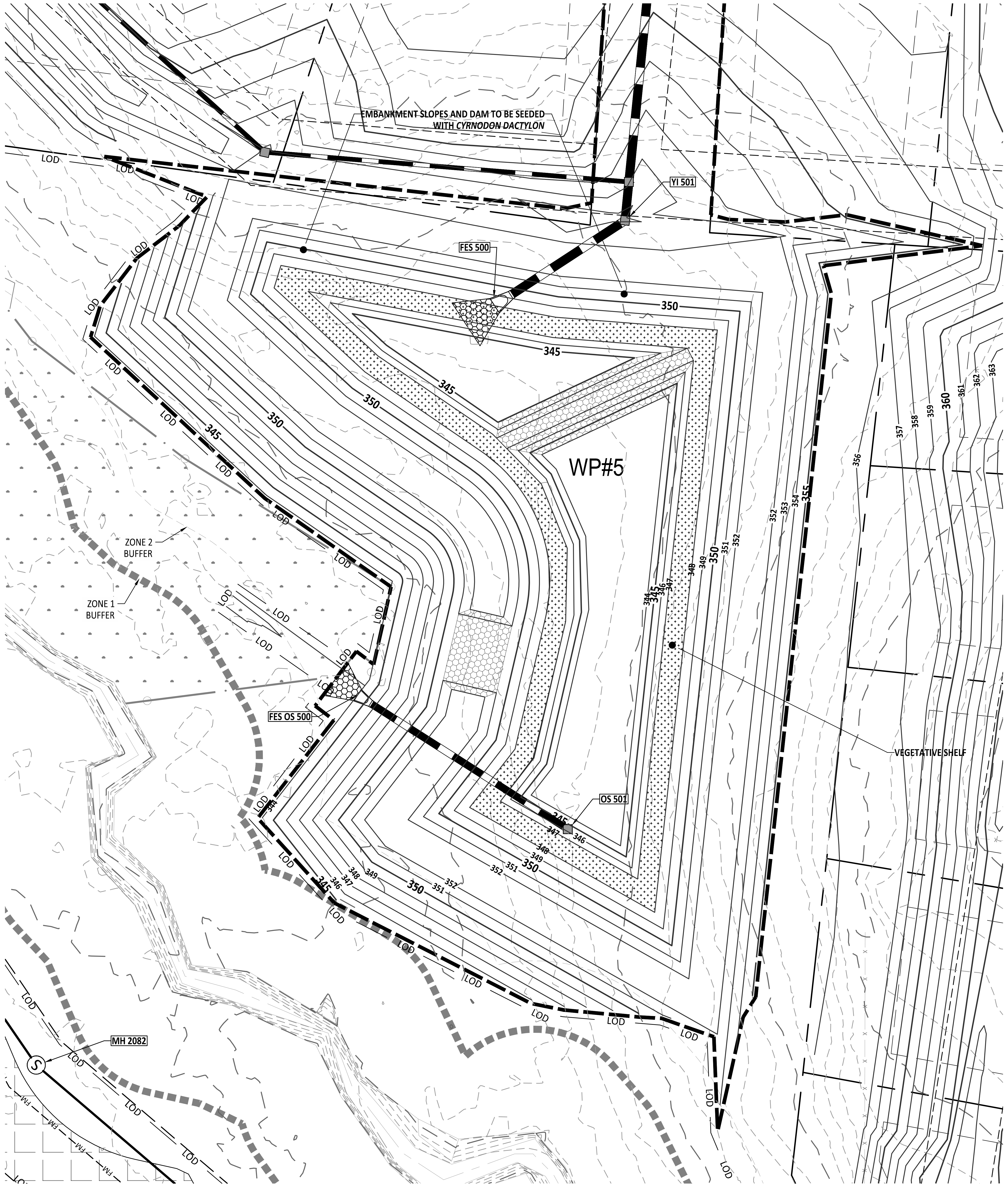
NOTES:
1. WALL THICKNESS AND REINFORCEMENT TO BE DETERMINED BY PRECAST CONCRETE MANUFACTURER.
2. OUTLET STRUCTURE ELEVATIONS SHOWN ON THE DETAILS ON THIS SHEET ARE CRITICAL AND MUST BE WITHIN 0.02' OF THAT SHOWN. IF OUTLET STRUCTURES ARE PRE-CAST OFF-SITE, THE HOLE FOR THE OUTLET PIPE SHALL BE ENLARGED 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.


TRASH RACK (SEE DETAIL)
TOP ELEV.: 350.50'
RECTANGULAR WEIRS 6" H x 24" W INV.: 350.00'
(1 EACH ON SIDES A, C, & D)
DRAWDOWN PIPE 2" DIAM. INV.: 347.50'
GROUT BOTTOM
SLOPE TO DRAIN
343.75'
OUTLET PIPE: 73 LF OF 24" RCP @ 1.00% WITH "O" RING JOINT
THICKNESS 15" (MIN. FOR ANTI-FLOATATION CONCRETE BOTTOM) 6" BASE EXTENSION
343.02'
FLOW PATH
2:1 MAX
36"
24"
CONCRETE BOTTOM
ANTI-SEEP COLLAR. SHOULD BE 18" AROUND ENTIRE PIPE. LOCATE IN THE MIDDLE OF EMBANKMENT
RIP-RAP
EXISTING GROUND
POND BOTTOM: 344.00'

SECTION VIEW

04 OUTLET STRUCTURE #5
NTS

June 2, 2025



PLANT LIST VEGETATED SHELF PLANT SCHEDULE:

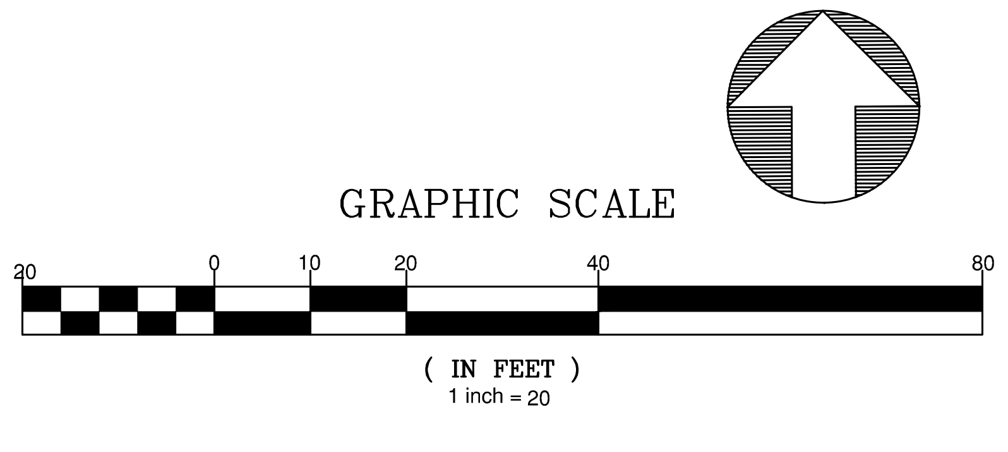
▨ VEGETATED SHELF
(HERB.)

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



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Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

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

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

Digitally signed by Jakob Klein
Date: 2025.06.02 15:00:23-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

56528 JAKOB P. KLEIN

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

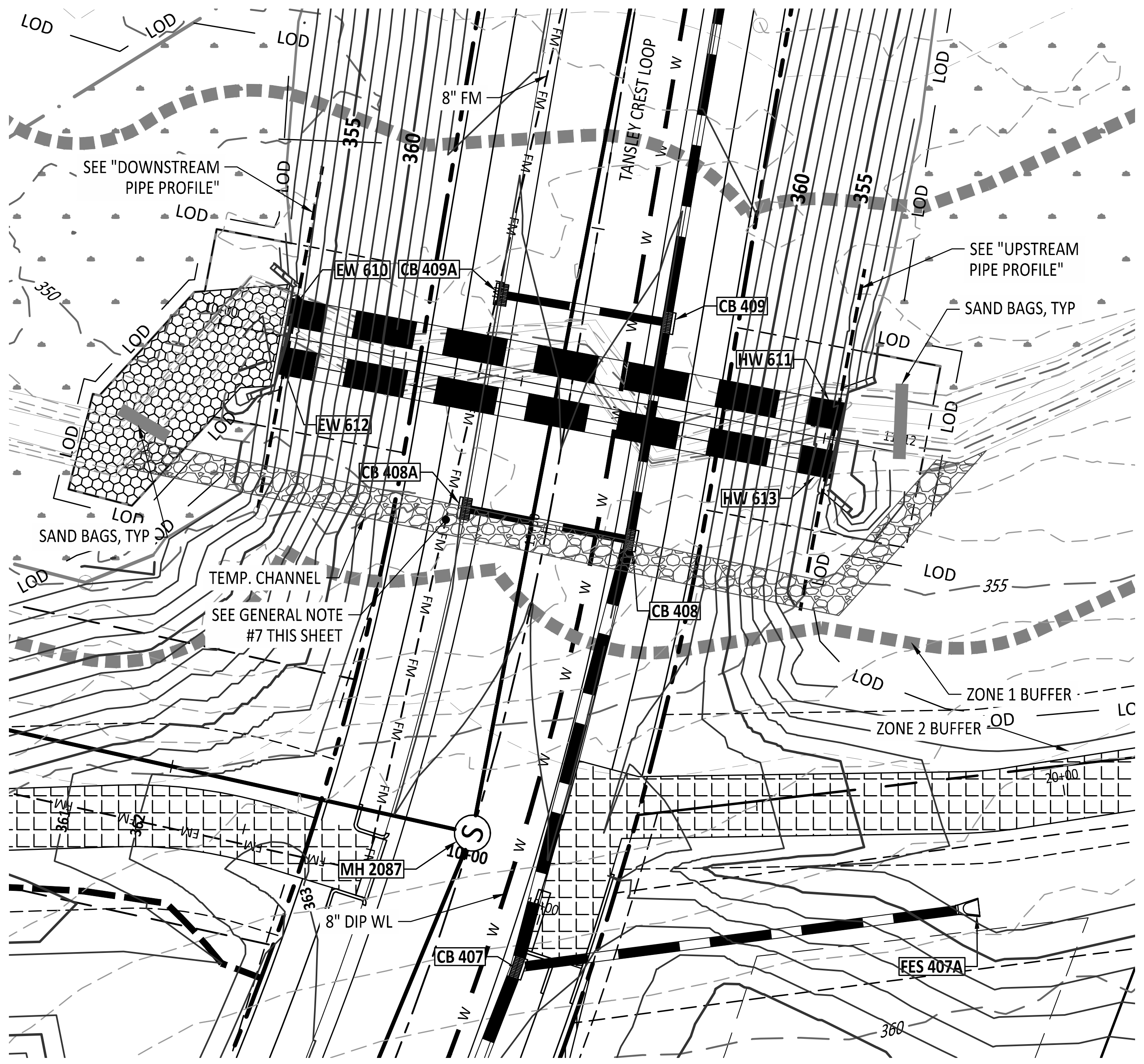
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

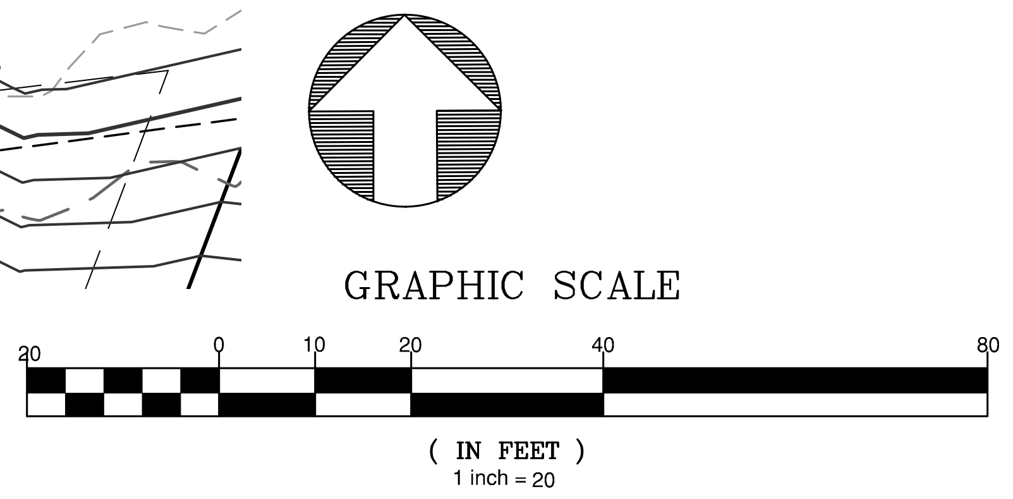
SCM 5

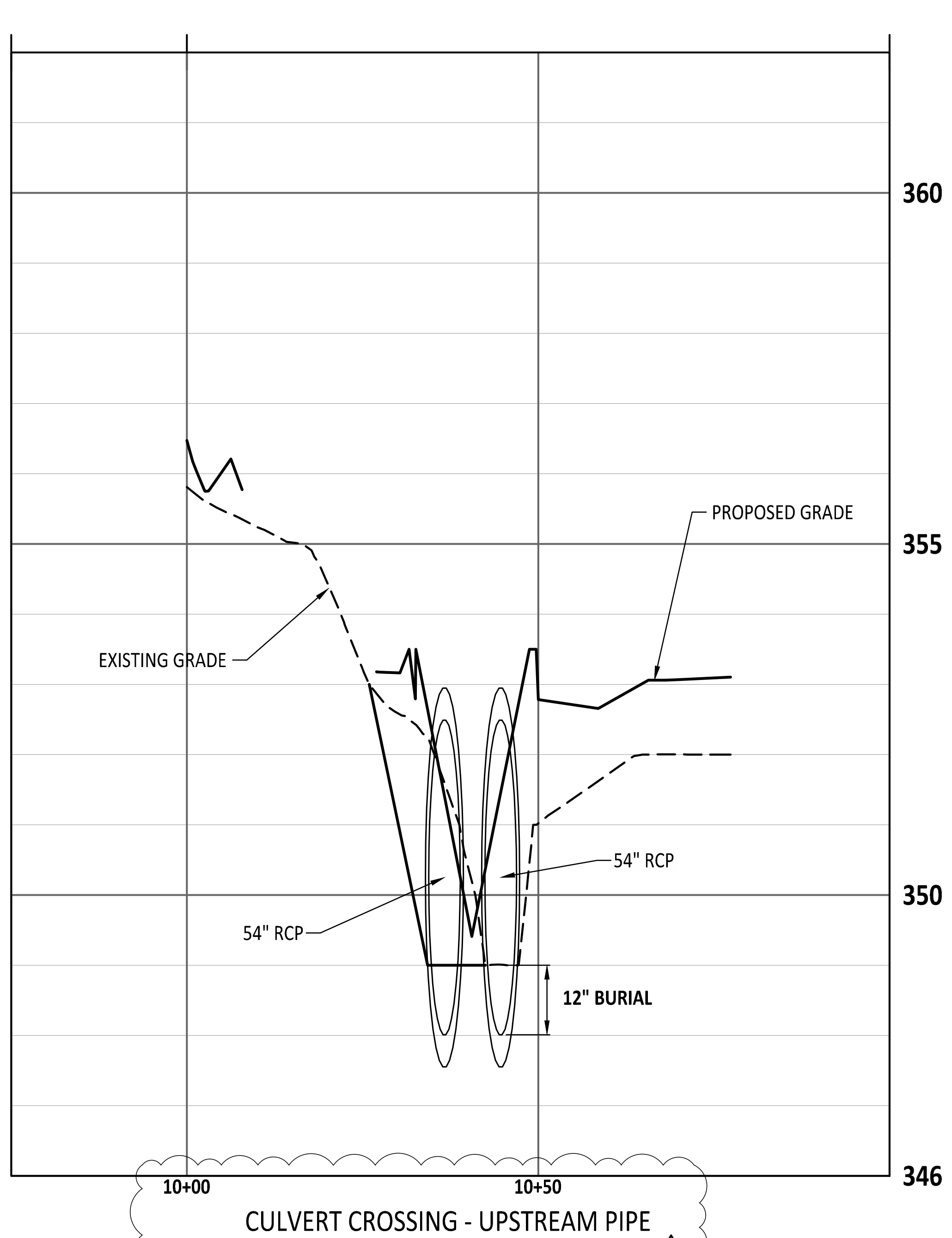
SHEET NO.:

C8.4

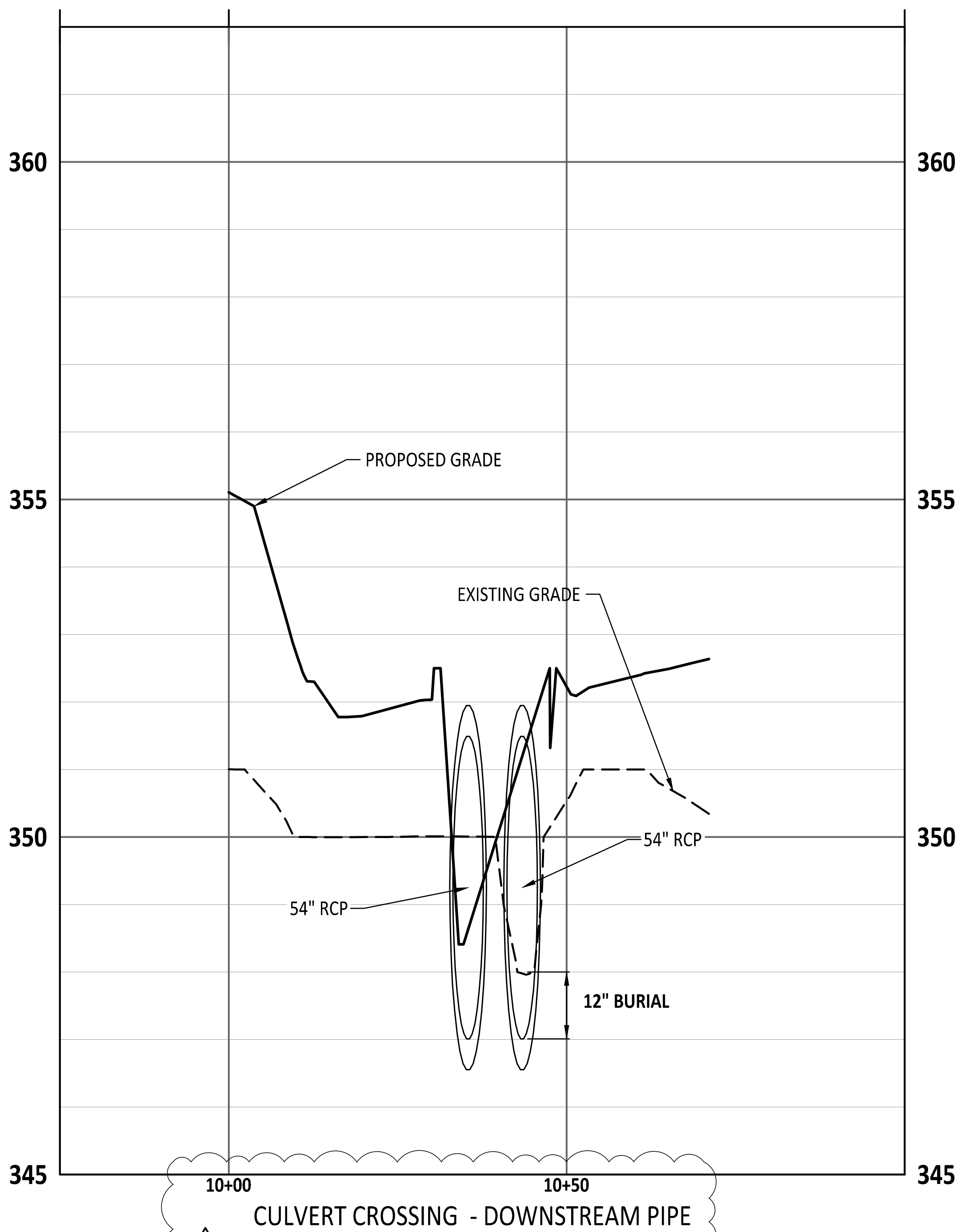


CULVERT CROSSING PLAN

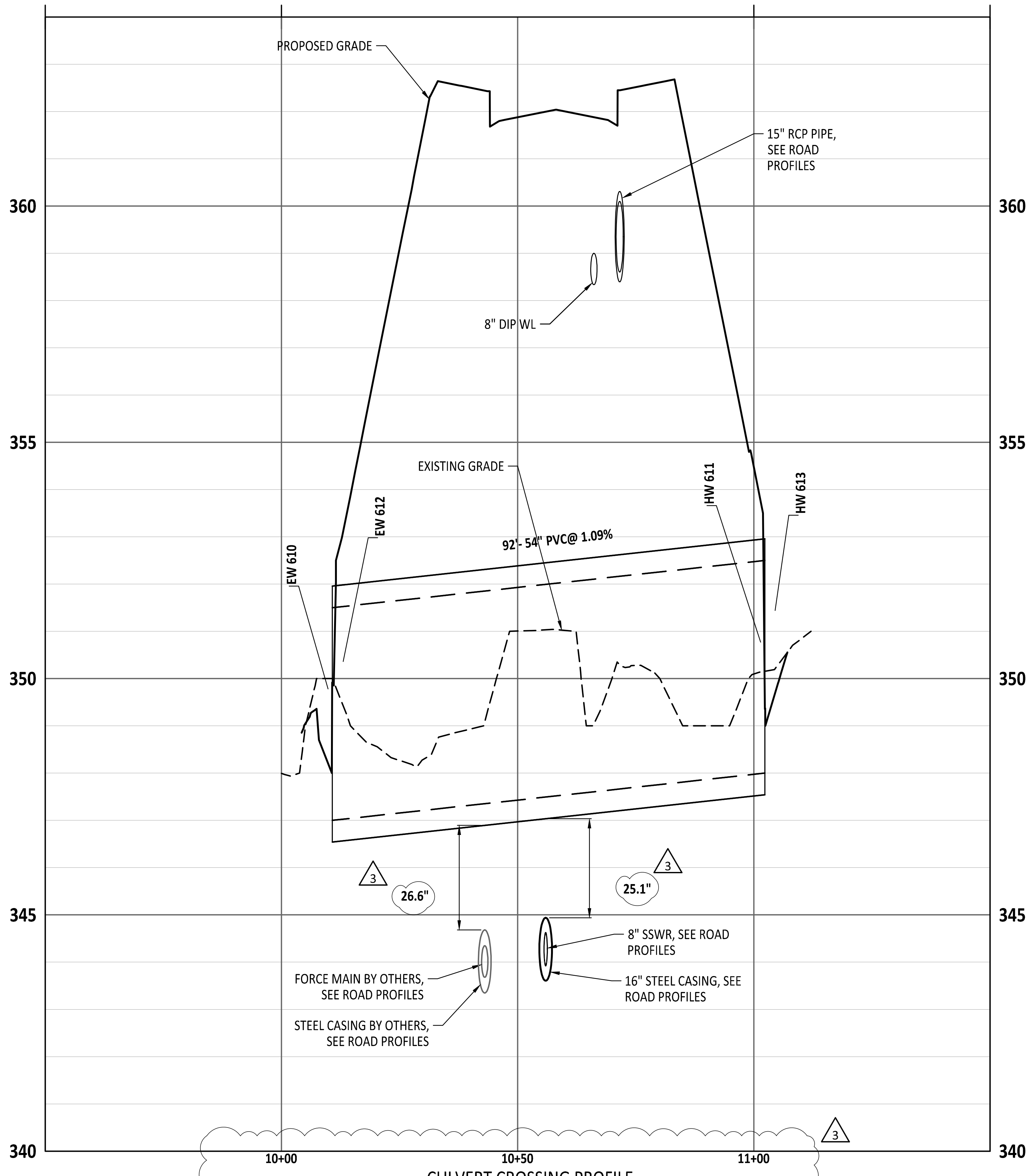




CULVERT CROSSING - UPSTREAM PIPE PROFILE



CULVERT CROSSING - DOWNSTREAM PIPE PROFILE


PROPOSED GRADE
15" RCP PIPE, SEE ROAD PROFILES
8" DIP WL
EXISTING GRADE
EW 610
EW 612
HW 611
HW 613
92' - 54" PVC@ 1.09%
26.6"
25.1"
8" SSWR, SEE ROAD PROFILES
16" STEEL CASING, SEE ROAD PROFILES
FORCE MAIN BY OTHERS, SEE ROAD PROFILES
STEEL CASING BY OTHERS, SEE ROAD PROFILES
360
355
350
345
340
10+00
10+50
11+00

CULVERT CROSSING PROFILE

SEQUENCE FOR 54" RCP CULVERT CROSSING

STAGE 1A CREEK CROSSING INSTALLATION

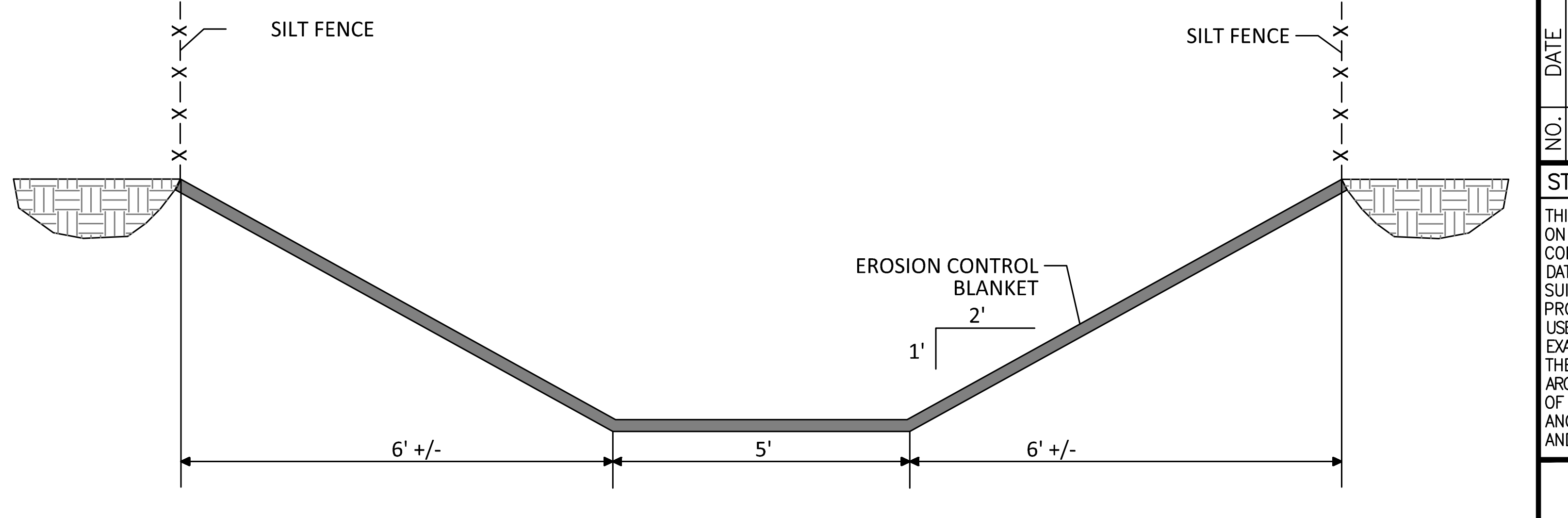
1. CONDUCT MEETING WITH WAKE COUNTY INSPECTOR PRIOR TO PROCEEDING WITH THE STREAM CROSSING CONSTRUCTION.
2. INSTALL THE BYPASS CHANNEL AS SHOWN WITH LINING LEAVING A PORTION OF THE STREAM BANK ON EACH END TO ACT AS A DAM TO PREVENT WATER FLOW DURING CONSTRUCTION OF THE CHANNEL. **(STEPS 3 - 9 SHOULD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

STAGE 1B CREEK CROSSING INSTALLATION

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

STAGE 1C CREEK CROSSING INSTALLATION

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



TEMPORARY CHANNEL SECTION

GENERAL NOTES

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

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

City of Raleigh
Public Utilities Department Permit # ______________________

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

City of Raleigh
Public Utilities Department Permit # ______________________

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

C-3881

Digitally signed by Jakob Klein
Date: 2025.06.02 15:00:24-04'00'

PRELIMINARY - DO NOT USE FOR CONSTRUCTION

56528
JAKOB P. KLEIN

NO.	DATE	REVISION:

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

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 06/02/2025

SHEET TITLE:

CULVERT CROSSING

SHEET NO.: **C8.5**

Z:\Jobs\21-002 Moody Development Tract (R210002)\dwg_Working Dwgs\Construction Set\8.0-8.1 SCM Plan.dwg

June 2, 2025