CONSTRUCTION DRAWINGS FOR MERRITT RESERVE

SITUATED AT

1224 ROLESVILLE ROAD

TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

PROJECT NUMBER = CID-25-02

ZONING CONDITIONS FOR THE MERRITT RESERVE

REZ-24-01

PINS 1758-92-8330 (PORTION OF), 1768-23-6815 AND 1768-32-8863 (PORTION OF)

1. REFER TO THE ASSOCIATED CONCEPT PLAN WITH REZ-24-01, APPROVED ON 11/07.

2. NO SINGLE TOWNHOUSE BUILDING SHALL CONTAIN MORE THAN SIX UNITS.

3. CONSTRUCTION OF THE ON-SITE AMENITIES SHALL BE COMPLETED ON OR BEFORE THE ISSUANCE OF THE CERTIFICATE OF COMPLIANCE/OCCUPANCY FOR THE 300TH UNIT.

4. THIS WILL BE AN AGE-RESTRICTED DEVELOPMENT LIMITED TO RESIDENTS AGED 55 AND OLDER IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR AGE RESTRICTED HOUSING ESTABLISHED BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.

5. NO MORE THAN 505 UNITS WILL BE PERMITTED FOR THE DEVELOPMENT WITH THE MAXIMUM NUMBER OF ATTACHED UNITS LIMITED TO 278.

6. THE FOLLOWING USES ARE PROHIBITED IN THE PORTION OF THE SITE TO BE ZONED GENERAL COMMERCIAL DISTRICT: TATTOO ESTABLISHMENT, VAPE AND TOBACCO STORE, VEHICLE RENTAL, AND SALES.

7. THE FOLLOWING USES ARE PROHIBITED IN THE PORTION OF THE SITE TO BE ZONED RESIDENTIAL MEDIUM DENSITY: TELECOMMUNICATIONS TOWER

8. THE DEVELOPER SHALL INSTALL A TYPE 2 BUFFER IN THE SOUTHWEST CORNER OF THE PROPERTY AS SHOWN ON EXHIBIT B WITH REZ-24-01, APPROVED ON 11/07.

9. ONE (1) BUILDING CONSISTING OF TWO (2) TOWNHOME UNITS SHALL BE DEVELOPED AND DONATED AS PART OF HEROES FOR HOME OR SIMILAR ORGANIZATION PROVIDING HOMES TO VETERANS. DEVELOPER SHALL BE ENTITLED TO A WAIVER OF ALL TOWN OF ROLESVILLE PERMIT FEES FOR THESE UNITS.

10. ALL SINGLE-FAMILY DETACHED DWELLINGS SHALL HAVE THE FOLLOWING FEATURES:

A) AT LEAST ONE (1) SINGLE OR DOUBLE CAR GARAGE;
B) ALL GARAGE DOORS SHALL HAVE WINDOWS;
C) GROUND FLOOR ELEVATION AT THE FRONT DOOR SHALL BE MINIMUM OF 12" ABOVE AVERAGE GRADE ACROSS THE FRONT FAÇADE OF THE HOUSE.
D) IF MASONRY IS NOT THE PREDOMINANT FIRST FLOOR FINISH, THEN THE FRONT ELEVATION SHALL HAVE 2 TYPES OF SIDING. FOR EXAMPLE, HORIZONTAL SIDING MAY BE COMBINED WITH SHAKE/BOARD AND BATTEN;
E) ROOF MATERIALS SHALL BE ASPHALT SHINGLES, METAL COPPER OR WOOD;
F) ALL WINDOWS ON FRONT FAÇADE SHALL HAVE SHUTTERS OR WINDOW TRIM;
G) NO SINGLE-FAMILY DETACHED HOME SHALL BE CONSTRUCTED WITH A FRONT ELEVATION OR COLOR PALETTE THAT IS IDENTICAL TO THE HOME ON EITHER SIDE OF IT OR DIRECTLY ACROSS FROM IT; AND
H) A VARIED COLOR PALETTE SHALL BE USED THROUGHOUT THE SUBDIVISION.

11. ALL TOWNHOUSE DWELLINGS SHALL HAVE THE FOLLOWING FEATURES:

A) ONE (1) SINGLE OR DOUBLE CAR GARAGE
B) IF MASONRY IS NOT THE PREDOMINANT FIRST FLOOR FINISH, THEN THE FRONT ELEVATION SHALL HAVE 2 TYPES OF SIDING. FOR EXAMPLE, HORIZONTAL SIDING MAY BE COMBINED WITH SHAKE/BOARD AND BATTEN;
C) ROOF MATERIALS SHALL BE ASPHALT SHINGLES, METAL, COPPER OR WOOD;
D) NO TOWNHOUSE SHALL BE PAINTED A COLOR THAT IS IDENTICAL TO THE HOME ADJACENT ON EITHER SIDE OF IT; AND A VARIED PALETTE SHALL BE USED THROUGHOUT THE SUBDIVISION.

12. A HOMEOWNERS ASSOCIATION (HOA) SHALL BE ESTABLISHED IN ACCORDANCE WITH THE ROLESVILLE LAND DEVELOPMENT ORDINANCE. HOA DOCUMENTS MUST BE RECORDED WITH THE FINAL PLAT.

13. GARBAGE AND PET WASTE RECEPTACLES IN OPEN SPACE AREAS TO BE MAINTAINED BY THE HOA.

14. CONSTRUCTION DOCUMENTS FOR THE PROPERTY TO INCLUDE ON-LOT GRADING INCLUDING (I) PROPOSED FINISHED FLOOR ELEVATIONS. (II) 4- CORNER FINISHED-PAD SPOT ELEVATIONS. (III) 1-FOOT CONTOURS OF THE PROPOSED GRADES, (IV) PROPOSED HIGH POINT(S), (V) PROPOSED SWALE DIRECTIONS, SPOT ELEVATIONS, AND SLOPES AT NOT LESS THAN 1% AND (VI) OTHER INFORMATION AS NECESSARY TO DEMONSTRATE FUTURE FEASIBILITY OF COMPLIANCE WITH SECTION R401.3 OF THE NC RESIDENTIAL CODE.

15. THE DEVELOPER SHALL DESIGN AND CONSTRUCT A PUBLIC GREENWAY ALONG THE SOUTHERN PROPERTY BOUNDARY ADJACENT TO WITHIN THE PROPOSED SEWER EASEMENT AS SHOWN ON EXHIBIT C. ADDITIONAL DEDICATION OF A 40' GREENWAY EASEMENT ALONG THE LILIES FAMILY, LLC PROPERTY WILL BE FINALIZED AND DEDICATED TO THE TOWN ONCE THE APPROVAL HAS BEEN GRANTED BY THE TOWN OF ROLESVILLE FOR THE FUTURE GREENWAY CONNECTION WITH THE EXTENSION OF FOWLER ROAD.

OVERALL SITE DATA	
PIN	1768328863, 1768236815, 1758928330
DEED BOOK AND PAGE #	010194 016287 009920 02092 • 00077 • 01879
ZONING	RH-CZ & GC-CZ
TOTAL TRACT ACREAGE	16.745/ 98.166/ 37.367 TOTAL=152.278 AC - 2.0 AC TO BE RETAINED = 150.278 AC
WATERSHED	HARRIS CREEK
TOWNSHIP	WAKE FOREST
RIVER BASIN	LOWER NEUSE
EXISTING USAGE	AGRICULTURE
PROPOSED USAGE	MIXED USE
STREAM CLASS	C;NSW
EXISTING TREE COVERAGE	111.87 AC
EXISTING IMPERVIOUS	.04 AC
PROPOSED IMPERVIOUS	54.67 AC
DENSITY	REQUIRED AND PROVIDED 3 UNITS/ACRE
FEMA FLOOD MAP	PANEL 1768 DATE JULY 19, 2022
SINGLE FAMILY DETACHED	REQUIRED AND PROVIDED 4,000 SF MIN. LOT AREA
ATTACHED UNITS	REQUIRED AND PROVIDED 1,900 SF MIN. LOT AREA
OPEN SPACE	REQUIRED 21.47 AC (15%) PROVIDED 37.65 AC (26.3%)
40' SINGLE FAMILY 50' SINGLE FAMILY ATTACHED DWELLINGS	140 87 278 TOTAL 505
MINIMUM BUILDING SETBACKS FRONT SETBACK SIDE SETBACK REAR SETBACK CORNER SIDE	REQUIRED DETACHED 15' 10' 15' 15'
MINIMUM BUILDING SETBACKS FRONT SETBACK SIDE SETBACK REAR SETBACK CORNER SIDE	PROVIDED DETACHED 20' 10' 15' 15'

MINIMUM BUILDING SETBACKS FRONT SETBACK SIDE SETBACK REAR SETBACK CORNER SIDE	REQUIRED ATTACHED 15' 5' 15' 15'
MINIMUM BUILDING SETBACKS FRONT SETBACK SIDE SETBACK REAR SETBACK CORNER SIDE	PROVIDED DETACHED 20' 5' 15' 15'
RESIDENTIAL PARKING	PROPOSED AND REQUIRED 2 PARKING SPOTS PER UNIT FOR SINGLE FAMILY ATTACHED AND DETACHED
PARKING FOR MAIL KIOSK	12 STANDARD 1 ADA 1 VAN ADA

PARKING CALCULATIONS FOR THE ATTACHED AND DETACHED UNITS ARE BASED ON TA 24-01.

RALEIGH WATER CONDITIONS:

THE FOLLOWING MUST BE COMPLETED PRIOR TO APPROVAL OF CONSTRUCTION DRAWINGS:

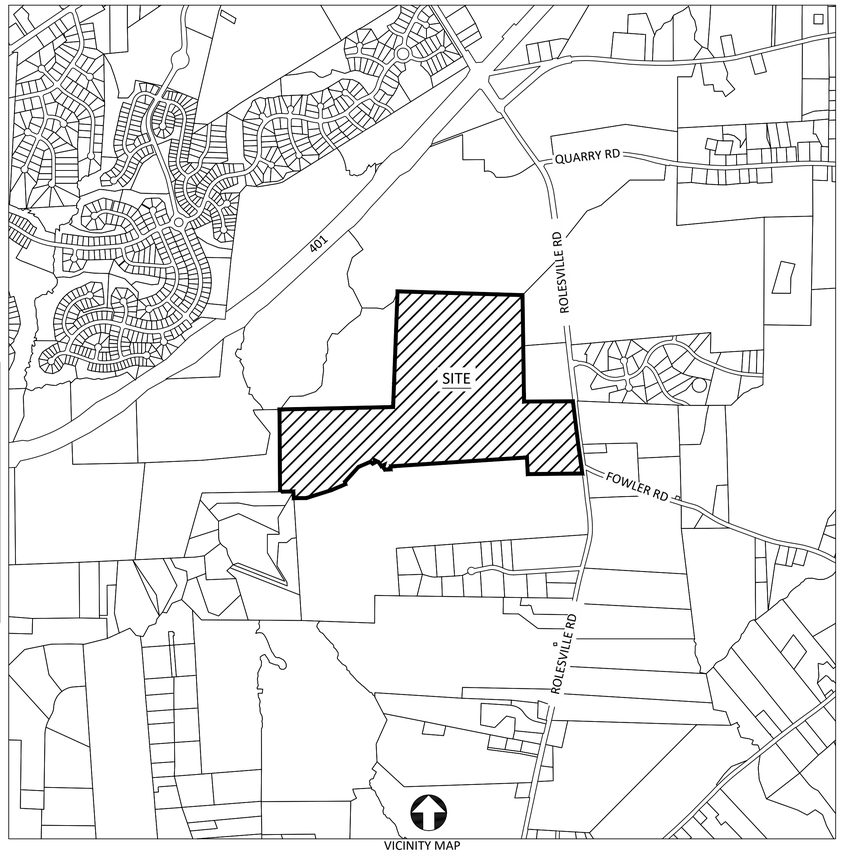
1. A DOWNSTREAM SEWER CAPACITY STUDY IN COMPLIANCE WITH THE PUBLIC UTILITIES DESIGN MANUAL SHALL BE SUBMITTED BY THE PROJECT ENGINEER FOR REVIEW AND APPROVAL.
2. A WATER MODEL IN COMPLIANCE WITH THE PUBLIC UTILITIES DESIGN MANUAL SHALL BE SUBMITTED BY THE PROJECT ENGINEER FOR REVIEW AND APPROVAL.
3. A DEED SHALL BE RECORDED WITH RALEIGH'S DEED TEMPLATE FOR ALL NECESSARY OFFSITE CITY OF RALEIGH SANITARY SEWER EASEMENTS TO ACCOMMODATE FUTURE SEWER LINE CONSTRUCTION.

PROJECT NARRATIVE

THIS PROJECT IS LOCATED IN ROLESVILLE, NORTH CAROLINA ASIDE THE ROLESVILLE ROAD FOWLER ROAD INTERSECTION. IT DRAINS TO TRIBUTARIES OF HARRIS BRANCH WHICH IS PART OF THE NEUSE RIVER BASIN. THE PROJECT CONSIST OF THREE SEPARATE PARCELS WITH A TOTAL PROJECT AREA OF THE PROJECT IS 152.278 AC. AND EACH PHASE WILL BE MASS GRADED. THE PROJECT IS ZONED FOR HIGH DENSITY, RESIDENTIAL AND GENERAL COMMERCIAL WITH A RESIDENTIAL DENSITY OF +/- 3 UNITS AN ACRE.

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 CMP PROFESSIONAL LAND SURVEYOR,PL.
4. THE ZONING ENTITLEMENTS ACHIEVED/FACILITATING THIS PRELIM PLAT IS REZ-24-01, APPROVED 11-7-2024 BY TOWN BOARD.
5. OPEN SPACE LOTS AND SCM'S WILL BE OWNED AND MAINTAINED BY HOA.
6. ALL PROPOSED SCM'S WITHIN THIS DEVELOPMENT WILL BE WET PONDS.
7. ALL PROPOSED STREETS WILL BE DEDICATED TO TOWN AND THUS OWNED AND MAINTAINED BY TOWN.
8. ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
9. SIGNS REQUIRE A SEPARATE SIGN PACKAGE TO BE APPROVED BY THE TOWN.



VICINITY MAP
SCALE: 1"=1000'

Sheet List Table	
Sheet Number	Sheet Title
G-001	Cover
G-002	Phasing Plan
G-003	Lot Area per Phase
G-004	General Notes
G-005 - G-0011	Schedule
CV-100	Existing Conditions
CX-100	Demolition Plan
CE-100	Erosion Control Phase 1 Stage 1 Overall
CE-101 - CE-103	Erosion Control Phase 1 Stage 1
CE-110	Erosion Control Phase 1 Stage 2 Overall
CE-111 - CE-118	Erosion Control Phase 1 Stage 2
CE-120	Erosion Control Phase 1 Stage 3 Overall
CE-121 - CE-128	Erosion Control Phase 1 Stage 3
CE-130	Erosion Control Phase 1 NDPES Plan
CE-140 - CE-146	Erosion Control Plan & Profile Phase 1
CE-147	Erosion Control Culvert Crossing Phase 1
CE-200	Erosion Control Phase 2 & 3 Stage 1 Overall
CE-201 - CE-203	Erosion Control Phase 2 & 3 Stage 1
CE-210	Erosion Control Phase 2 & 3 Stage 2 Overall
CE-211 - CE-217	Erosion Control Phase 2 & 3 Stage 2
CE-220	Erosion Control Phase 2 & 3 Stage 3 Overall
CE-221 - CE-227	Erosion Control Phase 2 & 3 Stage 3
CE-230	Erosion Control Phase 2 & 3 NDPES Plan
CE-240 - CE-241	Erosion Control Culvert Crossing Phase 2 & 3
CE-500 - CE-504	Erosion Control Details
CS-100	Site Plan Overall
CS-101 - CS-109	Site Plan
CS-110	Open Space Plan
CS-120	Pavement Marking & Signage Plan
CS-200 - CS-203	Fowler Road Plan & Profile
CS-210 - CS-211	Merritt Reserve Dr Plan & Profile
CS-212	Old Millstone Court Plan & Profile
CS-220 - CS-222	Jocund Street Plan & Profile
CS-230 - CS-233	Merritt Ridge Ln Plan & Profile
CS-240 - CS-242	Davis Rock Drive Plan & Profile
CS-250	Bent Iron Lane Plan & Profile
CS-260 - CS-261	Strips Plan & Profile
CS-265	Tripp Ledge Way Plan & Profile
CS-280	Lineage Place Plan & Profile
CS-290 - CS-291	Fetching Place Plan & Profile
CS-295	Toothe Chisel Dr & Deep Pass Court Plan & Profile
CS-298	Sutton Ridge Rd Plan & Profile
CS-300 - CS-301	Greenway Plan & Profile
CS-500 - CS-502	NCDOT Details
CS-503	Site Details
CU-100	Utility Plan Overall
CU-101 - CU-109	Utility Plan
CU-200 - CU-203	Sanitary Sewer Plan & Profile
CU-300 - CU-313	Storm Outfall Plan & Profile
CU-500 - CU-503	Utility Details
CG-100	Grading and Drainage Overall Plan
CG-101 - CG-109	Grading and Drainage
CG-401	SCM 1A Detail
CG-402	SCM 1B Detail
CG-403	SCM 1C Detail
CG-404	SCM 2 Detail
CG-405	SCM 4 Detail
CG-406	SCM 5A Detail
CG-407	SCM 5B Detail
CG-408	SCM 5C Detail
CG-409	SCM 6A Detail
CG-410	SCM 6B Detail
CG-411	SCM 7 Detail
CT-100	Rolesville Rd Improvement Plan
CT-101	Rolesville Road Striping Plan
CT-102	Fowler Road Striping Plan
CT-200	Fowler Road Sight Plan & Profile
CT-201	Merritt Reserve Dr Sight Plan & Profile
LT-100	Tree Preservation Plan
LP-100	Overall Landscape Plan
LP-101 - LP-108	Landscape Plan
LP-500	Landscape Details

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 # _____

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.

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL ☐ S-EC-145177-2025
STORMWATER MGMT. ☐ S-WF-145398-2025
FLOOD STUDY ☐ S-_____
DATE _____
WAKE COUNTY NORTH CAROLINA
ENVIRONMENTAL CONSULTANT SIGNATURE

PUBLIC IMPROVEMENTS MERRITT RESERVE		
PUBLIC WATER (12")	4,761' (PH1)	5,040' (PH2)
PUBLIC WATER (8")	5,392' (PH1)	5,913' (PH2)
PUBLIC WATER (6")	1,088' (PH2)	
PUBLIC SEWER	18,183' (8") 1,314' (12")	
PUBLIC STREETS	24,631 LF	
TOTAL NO. OF LOTS	505	
LIMITS OF DISTURBANCE	PH1: 50.48 AC PH2: 83.97 AC	

RALEIGH WATER INSPECTIONS QUANTITIES (SUBDIVISIONS AND SITE PLANS)

PHASE NUMBERS	PHASE 1, 2, & 3
NUMBER OF LOT(S)	505
NUMBER OF UNITS	505
PUBLIC WATER (LF)	22194
PUBLIC SEWER (LF)	8,567
PUBLIC FORCE MAIN (LF)	N/A
PRIVATE SEWER* (LF)	N/A
WATER SERVICE STUBS (QUANTITY)	506
SEWER SERVICE STUBS (QUANTITY)	506
AVERAGE DAILY FLOW PER PHASE**	130,650

*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 02T .0114 Wastewater Design Flow Rates for Commercial and Industrial.
The meter size must match domestic service size (Exemption - 3/4" service tap with 5/8" meter)

PROPERTY OWNER:	WILLIAM MERRITT & KATHY LLAMAS 156 MONTERERY ST. POINCIANA FL 34759 1768-23-6815 WESLEY AND ROXEY WILKINS 115 W. YOUNG ST. ROLESVILLE, NC 27571 1768-23-6815 EDWARD AND LINDA SELF 114 MAUDE LA. MT. AIRY, NC 27030 1768- 23-6815 JAMES AND SUE MERRITT 3523 VIOLET CT. WILMINGTON, NC 28409 1768-23-6815 GUNZ/ROGERS PROPERTY BETTY R. GUNZ 1409 MAYLAND AVE. CHALOTTE, NC 28209 1768-32-8863 WILLIAM ROGERS, C/O TEXWEST, LLC PO BOX 101149 FORTH WORTH, TX 76185 1768-32-8863 LILES FAMILY PROPERTY LILES FAMILY, LLC 2524 HOLIDAY AVE. ZEBULON, NC 27597 1758-92-8330
SURVEYOR:	CMP PROFESSIONAL LANDSCAPE, PL CONTACT: MIKE MOSS 206 HIGH HOUSE RD STE 205 WAKE FOREST, NC 27587 919-556-3148
DEVELOPER:	BRD LAND AND INVESTMENT CONTACT: MICHAEL FLEMING 234 KINGSLEY PARK DR STE 110 FORT MILL, SC 29715 919-346-6014
BUFFER/WETLAND:	SAGE ECOLOGICAL SOLUTIONS CONTACT: SEAN CLARK 3707 SWIFT CREEK DRIVE RALEIGH, NC 27606 919-559-1537

PROJECT NUMBER = CID-25-02

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

PRELIMINARY
NOT FOR RECORDATION
DO NOT USE FOR CONSTRUCTION
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE
COVER
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:
COVER

SHEET NO.: G-001

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

Z:\Jobs\23-0004 Merrit Property (BRD)\dwg_Working Dwgs\Sheets\Construction Set\1. G-001 COVER.dwg
2025-09-03

PHASE LEGEND

PHASE 1
PHASE 2
PHASE 3

PHASE 1
PHASE 2
PHASE 3

FUTURE TOWN PARK OS-19
FUTURE TOWN PARK OS-20
OS-10
OS-11
OS-12
OS-13
OS-14
OS-15
OS-16
OS-17
OS-18
OS-1
OS-2
OS-3
OS-4
OS-5
OS-6
OS-7
OS-8
SCM 1A
SCM 1B
SCM 1C
SCM 2
SCM 3
SCM 4
SCM 5A
SCM 5B
SCM 6A
SCM 6B
SCM 7
COMMERCIAL/RETAIL 4.27 AC
COMMERCIAL/RETAIL 3.29 AC
PROPERTY TO BE RETAINED BY BETTY R. GUNZ / TEXWEST LLC 2.00 AC
SWAMP
POND

NOTE: PLEASE SEE SHEET G-003 FOR LOT INFORMATION PER PHASING

PROJECT NUMBER = CID-25-02

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

PRELIMINARY
PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P KLEIN
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE

PHASING PLAN

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

PHASING PLAN

SHEET NO.:

G-002

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

Z:\Job\23-0004 Merritt Property BRP\Revit_ Working Dwgs\Sheets\Construction Set\2. G-002 Phasing Plan.dwg

2025-09-03

PHASE 1 LOT AREAS	
Parcel No.	Area (sf)
1	9095
2	11574
3	16361
4	10345
5	10712
6	9754
7	6869
8	6487
9	6294
10	6178
11	6114
12	6195
13	6277
14	6320
15	8435
16	6629
17	5682
18	3028
19	2392
20	2316
21	2283
22	2755
23	2755
24	2280
25	2280
26	2280
27	2755
28	2755
29	2280
30	2280
31	2280
32	2280
33	2755
34	2755
35	2755
36	2755
37	2280
38	2280
39	2280
40	2755
41	2755
42	2280
43	2280
44	2280
45	2280
46	2755
47	2768
48	2287
49	2337
50	2442

PHASE 1 LOT AREAS	
Parcel No.	Area (sf)
51	3175
52	2854
53	2376
54	2388
55	2400
56	2405
57	2837
58	2755
59	2279
60	2754
61	2750
62	2296
63	2331
64	2380
65	2444
66	3061
67	2776
68	2268
69	2254
70	2257
71	2275
72	2795
73	2767
74	2279
75	2280
76	2283
77	2285
78	2762
79	2765
80	2290
81	2292
82	2294
83	2296
84	2776
85	5081
86	4021
87	4043
88	4015
89	3980
90	4083
91	4047
92	4151
93	4113
94	4219
95	4221
96	4272
97	4641
98	4683
99	4661
100	4971

PHASE 1 LOT AREAS	
Parcel No.	Area (sf)
101	4620
102	4569
103	5150
104	4624
105	5688
106	4176
107	4069
108	6172
109	7347
110	7063
111	7015
112	7077
113	7657
114	7457
115	6835
116	6553
117	6518
118	6466
119	6414
120	6362
121	6310
122	6258
123	7687
124	3827
125	3248
126	3828
127	3886
128	3248
129	3248
130	3827
131	3884
132	3247
133	3247
134	3827
135	3981
136	3371
137	3886
138	7676
139	7260
140	7522
141	9129
142	8855
143	7415
144	6913
145	7007
146	6769
147	6769
148	7479
149	7156
150	6686

PHASE 1 LOT AREAS	
Parcel No.	Area (sf)
151	7110
152	7457
153	7722
154	7599
155	7841
156	8728
157	7740
158	8285
159	11484
160	10724
161	11055
162	10563
163	9734
164	8543
165	8909
166	10005
167	7762
168	5886
169	5886
170	5886
171	6406
172	5825
173	5824
174	5824
175	5824
177	5824
178	5824
179	6347
180	8875
181	5848
182	5287
183	5236
184	5083
185	4563
186	4485
187	4319
188	4107
189	4040

TOTAL PHASE 1 LOTS = 189

PHASE 2 LOT AREAS	
Parcel No.	Area (sf)
190	4031
191	4042
192	4031
193	4042
194	4031
195	4042
196	4031
197	4042
198	4031
199	4042
200	4030
201	4304
202	7316
203	6502
204	6677
205	6007
206	5824
207	6347
208	5843
209	5824
210	5824
211	5824
212	5824
213	5824
214	5824
215	6029
216	8553
217	7459
218	7328
219	6222
220	5936
221	5936
222	5936
223	5936
224	5936
225	5932
226	5939
227	6397
228	5808
229	6505
230	6241
231	6809
232	7511
233	6586
234	6564
235	6448
236	6445
237	6057
238	5936
239	5936

PHASE 2 LOT AREAS	
Parcel No.	Area (sf)
240	5936
241	5936
242	5936
243	5824
244	6636
245	6981
246	6873
247	7546
248	7280
249	7535
250	8353
251	9395
252	9247
253	4425
254	5021
255	5050
256	4899
257	4440
258	6057
259	5882
260	3878
261	4931
262	4649
263	3920
264	6986
265	7938
266	7731
267	7185
268	13866
269	10663
270	8370
271	9657
272	5233
273	5191
274	4702
275	4713
276	5032
277	5305
278	5148
279	4515
280	4379
281	4196
282	4513
283	4709
284	5367
285	6003
286	6311
287	5595
288	5144
289	4999

PHASE 2 LOT AREAS	
Parcel No.	Area (sf)
290	9106
291	5649
292	5524
293	5059
294	5948
295	5585
296	5733
297	6059
298	5100
299	5760
300	8437
301	10648
302	6431
303	9854
304	7551
305	6573
306	6476
307	6554
308	6487
309	6487
310	6487
311	7417
312	8689
313	8473
314	7873
315	8124
316	8964
317	8843
318	8661
319	8479
320	8625
321	10192
322	8299
323	7835
324	7475
325	7593
326	8341
327	7447
328	6558
329	6557
330	6557
331	6595
332	7360
333	7239
334	7498
335	2773
336	2305
337	2305
338	2305
339	2791

PHASE 2 LOT AREAS	
Parcel No.	Area (sf)
340	2921
341	2324
342	2819
343	2896
344	2311
345	2300
346	2869
347	2755
348	2280
349	2280
350	2755
351	2952
352	2443
353	2443
354	2443
355	2443
356	2952
357	3014
358	2494
359	2494
360	2494
361	2494
362	3008
363	2886
364	2395
365	2395
366	2395
367	2882
368	3945
369	3491
370	3546
371	4248
372	3828
373	3248
374	3828
375	3828
376	3248
377	3828

TOTAL PHASE 2 LOTS = 188

PHASE 3 LOT AREAS	
Parcel No.	Area (sf)
378	8483
379	7764
380	4699
381	4037
382	4037
383	4036
384	4035
385	4038
386	4035
387	4038
388	4035
389	4038
390	4035
391	4038
392	4035
393	4038
394	4036
395	4038
396	4175
397	4270
398	4063
399	4044
400	4063
401	4044
402	4063
403	4044
404	4063
405	5254
406	5240
407	4102
408	4040
409	4000
410	4040
411	4000
412	4040
413	4000
414	4114
415	4202
416	4060
417	4048
418	4010
419	4031
420	4010
421	4031
422	4010
423	4031
424	4010
425	4031
426	4010
427	4031

PHASE 3 LOT AREAS	
Parcel No.	Area (sf)
428	4010
429	4031
430	4010
431	4242
432	4008
433	4108
434	4141
435	4131
436	4131
437	4141
438	4101
439	4026
440	3987
441	3896
442	6775
443	6241
444	6841
445	7241
446	7237
447	5822
448	6305
449	5926
450	5924
451	5923
452	5921
453	5919
454	5918
455	5849
456	5848
457	5846
458	6382
459	7821
460	7563
461	8436
462	8409
463	9002
464	7433
465	6453
466	6211
467	6047
468	6165
469	6165
470	6165
471	6165
472	6165
473	6166
474	6163
475	5987
476	6058
477	5944

PHASE 3 LOT AREAS	
Parcel No.	Area (sf)
478	5784
479	6747
480	7533
481	6588
482	6588
483	7534
484	8283
485	8098
486	8665
487	8530
488	7373
489	7480
490	10399
491	8700
492	12269
493	11248
494	10210
495	8492
496	8232
497	7389
498	6588
499	6588
500	6588
501	6588
502	6588
503	6588
504	6588
505	7479

TOTAL PHASE 1 LOTS = 128

PROJECT NUMBER = CID-25-02

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

PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE

LOT AREA PER PHASE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

LOT AREA PER PHASE

SHEET NO.: **G-003**

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

Z:\Jobs\23-0004 Merritt Property BIM\Dwg_Working Dwgs\Sheets\Construction Set\1. G-003 Lot Area Per Phase.dwg

2025-09-03

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 1 STAGE 1 SHALL BE AS FOLLOWS:

1. THE OWNER SHALL SUBMIT A NCG01 PERMIT AND OBTAIN A CERTIFICATE OF COMPLIANCE.
2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH WAKE COUNTY TO OBTAIN A LAND DISTURBING PERMIT.
3. PRIOR TO THE START OF ANY SITE DEVELOPMENT SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE TOWN OF ROLESVILLE.
4. TREE PROTECTION FENCES, SILT FENCES AND CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES INCLUDING STOCKPILE LOCATIONS. STOCKPILE LOCATIONS SHOULD BE ENCLOSED BY SILT FENCE AS SHOWN ON THE PLANS. SEED ALL RESULTING BARE AREAS IMMEDIATELY AFTER CONSTRUCTION/INSTALLATION.
5. CONSTRUCT SCMS 1A, 1B, AND 1C PER THE SCM DETAIL SHEETS CG401 THROUGH CG410 INCLUDING INLET PIPES, OUTLET PIPES, AN OMITTING THE FOREBAYS. SCM 4 SHALL BE CONSTRUCTED WITH A LARGER SURFACE AREA AS SHOWN ON THE PHASE 1 EROSION CONTROL PLANS. CONNECT SKIMMERS TO THE OUTLET STRUCTURES. CONSTRUCT TEMPORARY SEDIMENT BASINS (TSB) #1 AND #2 AS SHOWN ON THE STAGE 1 EROSION AND SEDIMENT CONTROL PLAN. ANY INLET(S) INSTALLED SHOULD HAVE INLET PROTECTION INSTALLED IMMEDIATELY AS SEEN THESE PLANS. THE SEDIMENT BASINS AND TEMPORARY SKIMMER BASINS SHALL BE FULLY CONSTRUCTED PRIOR TO THE INSTALLATION OF ANY TEMPORARY DIVERSION DITCHES. ANY PIPE INSTALLATION SHALL BE EXCAVATED, INSTALLED, AND BACKFILLED WITHIN A SINGLE WORKING DAY.
6. INSTALL ANY APPLICABLE RIP RAP DISSIPATERS SEEN WITHIN STAGE 1 EROSION AND SEDIMENT CONTROL PLAN. SEE SHEET G-005 FOR SCHEDULE.
7. INSTALL TEMPORARY DIVERSION DITCHES SHOWN IN THIS PHASE TO CONVEY SEDIMENT AND RUN OFF TO RESPECTIVE SEDIMENT BASINS. INSTALL RECOMMENDED LINER AND SEED/STABILIZE DENUDED GROUND IMMEDIATELY FOLLOWING DIVERSION DITCH INSTALLATION. SEE SHEET G-005 FOR THE TEMPORARY DIVERSION DITCH SCHEDULE WITH RECOMMENDED LINER.
8. CALL FOR INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER, PROCEED TO STAGE 2 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONCE APPROVAL IS GRANTED.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 1 STAGE 2 SHALL BE AS FOLLOWS:

1. GENERAL SITE GRADING MAY BEGIN.
2. CONTRACTOR TO FOLLOW THE "EROSION CONTROL CULVERT CROSSING PHASE 1" AS SHOWN ON SHEET CE 147 FOR THE CULVERT CROSSING INSTALLATION ON STRIPS DRIVE.
3. TSB #1 AND TSB #2 MAY BE REMOVED ONCE RUNOFF IS NO LONGER BEING DIRECTED INTO THOSE BASINS. TSB #3 AND SCM 2 MUST BE CONSTRUCTED PRIOR TO THE REMOVAL OF TSB #1 AND TSB #2 AS SHOWN ON THE PHASE 2 EROSION AND SEDIMENT CONTROL PLANS.
4. INSTALL STORM DRAINAGE PIPE SYSTEMS AS SEEN IN THE CD SET. INSTALLATION SHOULD BE DONE IN THE MANAGEABLE SERIES. ANY SERIES OF PIPE AND STRUCTURE INSTALLATION(S) SHALL BE DONE SO THAT TRENCHING/EXCAVATION THAT IS PERFORMED THAT DAY IS ABLE TO HAVE BEDDING PREPARED, PIPE INSTALLED AND BACKFILLED WITHIN THE SAME WORKING DAY. DENUDED AREAS SHOULD BE STABILIZED IMMEDIATELY.
5. AS EACH CATCH BASIN OR YARD INLET IS INSTALLED, IT SHALL HAVE INLET PROTECTION INSTALLED. THIS IS TO REMAIN IN PLACE AND BE MAINTAINED PERIODICALLY UNTIL APPROVED FOR REMOVAL BY THE WAKE COUNTY WATERSHED MANAGER.
6. INSTALL ANY APPLICABLE RIP RAP DISSIPATERS SEEN WITHIN THE CD SET FOR THE STAGE 2 EROSION AND SEDIMENT CONTROL PLAN. SEE SHEET G-005 FOR SCHEDULE.
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 UNTIL PERMANENT GROUND IS ESTABLISHED.
10. UTILITIES (WATER, SEWER, ELECTRIC, GAS, CABLE TV, TELEPHONE, ETC.) WILL BE INSTALLED DURING THIS PHASE.
11. CALL FOR INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER, PROCEED TO STAGE 3 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONE APPROVAL IS GRANTED.
12. ADDITIONAL MEASURES OR DITCH EXTENSIONS MAY BE REQUIRED BY THE WAKE COUNTY WATERSHED MANAGER TO ROUTE RUNOFF TO SEDIMENT BASINS BASED ON FIELD CONDITIONS. THESE MEASURES SHALL BE INSTALLED UPON THE INSPECTOR'S DETERMINATION.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 1 STAGE 3 SHALL BE AS FOLLOWS:

1. WHEN ALL CONTRIBUTING AREAS ARE STABILIZED, OBTAIN APPROVAL FROM THE WAKE COUNTY WATERSHED MANAGER TO REMOVE THE TEMPORARY SKIMMER BASINS AND TO CONVERT THE SEDIMENT BASINS (SB) TO PERMANENT STORMWATER CONTROL MEASURES (SCM). SEE RECOMMENDED INSTRUCTIONS TO CONVERT SEDIMENT BASINS TO PERMANENT STORMWATER CONTROL MEASURES ON THIS SHEET OF THE PROJECT CONSTRUCTION DRAWINGS.
2. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL THE WAKE COUNTY WATERSHED MANAGER FOR AN INSPECTION.
3. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCES, ETC. AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS SHOULD BE INSTALLED.
4. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER. OBTAIN CERTIFICATE OF COMPLETION. FINALIZE NCG01 PERMIT

GENERAL NOTES:

A. ALL TREE PROTECTION FENCING SHALL BE MAINTAINED UNTIL ALL SITE WORK IS COMPLETED. THE FENCING SHALL REMAIN UNTIL ISSUANCE OF CERTIFICATE OF OCCUPANCY (CO).

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. 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.

D. WHEEL CHAIR ACCESS RAMPS WILL BE PROVIDED IN ACCORDANCE WITH STANDARD DRAWING SHOWN ON THE SITE DETAIL SHEETS. 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.

E. ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.

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. CONTACT DEQ FOR REMOVAL/DEWATERING AFTER CONTACTING WAKE COUNTY FOR FIELD APPROVAL.
3. 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.
4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
5. INSTALL VELOCITY DISSIPATERS AND/OR LEVEL SPREADER AS REQUIRED ON THE EROSION CONTROL PLAN.
6. 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.

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. CONTRACTOR WILL KEEP STREETS CLEAN AT ALL TIMES, OR A WASH STATION WILL BE REQUIRED.
5. ALL CATCH BASINS SHALL HAVE INLET PROTECTION.
6. ALL CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING, WITH SOME SLOPES TO BE STABILIZED WITHIN 7 DAYS AS SHOWN ON THIS SHEET AND ON THE NPDES SHEETS.
7. A PRE-CONSTRUCTION CONFERENCE MAY BE REQUIRED BEFORE GRADING PERMIT IS ISSUED.
8. TREE PROTECTION FENCING ON THIS PROJECT WILL BE INSTALLED AND INSPECTED BEFORE THE GRADING PERMIT IS ISSUED.
9. 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. PROJECT AREA = 152.28 ACRES.
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.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 2 & 3 STAGE 1 SHALL BE AS FOLLOWS:

1. THE OWNER SHALL SUBMIT A NCG01 PERMIT AND OBTAIN A CERTIFICATE OF COMPLIANCE IF THE PREVIOUS CERTIFICATION HAS EXPIRED.
2. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH WAKE COUNTY PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
3. PRIOR TO THE START OF ANY SITE DEVELOPMENT SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE TOWN OF ROLESVILLE.
4. TREE PROTECTION FENCES, SILT FENCES AND CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES INCLUDING STOCKPILE LOCATIONS. STOCKPILE LOCATIONS SHOULD BE ENCLOSED BY SILT FENCE AS SHOWN ON THE PLANS. SEED ALL RESULTING BARE AREAS IMMEDIATELY AFTER CONSTRUCTION/INSTALLATION.
5. CONSTRUCT SCMS 5A, 5B, 5C, 6A AND 6B PER THE SCM DETAIL SHEETS CG401 THROUGH CG410 OMITTING THE FOREBAYS. CONNECT SKIMMERS TO THE OUTLET STRUCTURES. CONSTRUCT TEMPORARY SEDIMENT BASINS (TSB) #4, #5, AND #6 AS SHOWN ON THE STAGE 1 EROSION AND SEDIMENT CONTROL PLAN. ANY INLET(S) INSTALLED SHOULD HAVE INLET PROTECTION INSTALLED IMMEDIATELY AS SEEN THESE PLANS. THE SEDIMENT BASINS AND TEMPORARY SKIMMER BASINS SHALL BE FULLY CONSTRUCTED PRIOR TO THE INSTALLATION OF ANY TEMPORARY DIVERSION DITCHES. ANY PIPE INSTALLATION SHALL BE EXCAVATED, INSTALLED, AND BACKFILLED WITHIN A SINGLE WORKING DAY. ADDITIONAL GRADING AND CONSTRUCTION WILL BE REQUIRED IN PHASE 1 AREA TO CONNECT TO PHASE 2. THIS INCLUDES CONNECTING STORM AND SEWER STRUCTURES AND ROUGH GRADING TO PREVIOUSLY INSTALLS IMPROVEMENTS.
6. INSTALL ANY APPLICABLE RIP RAP DISSIPATERS SEEN WITHIN STAGE 1 EROSION AND SEDIMENT CONTROL PLAN. SEE SHEET G-005 FOR SCHEDULE.
7. INSTALL TEMPORARY DIVERSION DITCHES SHOWN IN THIS PHASE TO CONVEY SEDIMENT AND RUN OFF TO RESPECTIVE SEDIMENT BASINS. INSTALL RECOMMENDED LINER AND SEED/STABILIZE DENUDED GROUND IMMEDIATELY FOLLOWING DIVERSION DITCH INSTALLATION. SEE SHEET G-005 FOR THE TEMPORARY DIVERSION DITCH SCHEDULE WITH RECOMMENDED LINER.
8. CALL FOR INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER, PROCEED TO STAGE 2 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONCE APPROVAL IS GRANTED.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 2 & 3 STAGE 2 SHALL BE AS FOLLOWS:

1. GENERAL SITE GRADING MAY BEGIN.
2. CONTRACTOR TO FOLLOW THE "EROSION CONTROL CULVERT CROSSING PHASE 2 & 3" AS SHOWN ON SHEETS CE 240 AND CE 241 FOR THE CULVERT CROSSING INSTALLATIONS ON JOCUND STREET AND FOWLER ROAD, RESPECTIVELY.
3. INSTALL STORM DRAINAGE PIPE SYSTEMS AS SEEN IN THE CD SET. INSTALLATION SHOULD BE DONE IN THE MANAGEABLE SERIES. ANY SERIES OF PIPE AND STRUCTURE INSTALLATION(S) SHALL BE DONE SO THAT TRENCHING/EXCAVATION THAT IS PERFORMED THAT DAY IS ABLE TO HAVE BEDDING PREPARED, PIPE INSTALLED AND BACKFILLED WITHIN THE SAME WORKING DAY. DENUDED AREAS SHOULD BE STABILIZED IMMEDIATELY.
4. AS EACH CATCH BASIN OR YARD INLET IS INSTALLED, IT SHALL HAVE INLET PROTECTION INSTALLED. THIS IS TO REMAIN IN PLACE AND BE MAINTAINED PERIODICALLY UNTIL APPROVED FOR REMOVAL BY THE WAKE COUNTY WATERSHED MANAGER.
5. INSTALL ANY APPLICABLE RIP RAP DISSIPATERS SEEN WITHIN THE CD SET FOR THE STAGE 2 EROSION AND SEDIMENT CONTROL PLAN. SEE SHEET G-005 FOR SCHEDULE.
6. CLEAN SEDIMENT BASINS WHEN ONE-HALF FULL.
7. SEED AND MULCH DENUDED AREA INCLUDING ANY CUT/FILL SLOPES WITHIN FOURTEEN (14) DAYS AFTER FINISHED GRADES ARE ESTABLISHED.
8. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND IS ESTABLISHED.
9. UTILITIES (WATER, ELECTRIC, GAS, CABLE TV, TELEPHONE, ETC.) WILL BE INSTALLED DURING THIS PHASE.
10. CALL FOR INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER, PROCEED TO STAGE 3 EROSION AND SEDIMENT CONTROL ACTIVITIES ONLY ONE APPROVAL IS GRANTED.
11. ADDITIONAL MEASURES OR DITCH EXTENSIONS MAY BE REQUIRED BY THE WAKE COUNTY WATERSHED MANAGER TO ROUTE RUNOFF TO SEDIMENT BASINS BASED ON FIELD CONDITIONS. THESE MEASURES SHALL BE INSTALLED UPON THE INSPECTOR'S DETERMINATION.

CONSTRUCTION SEQUENCE FOR MERRITT RESERVE, PHASE 2 & 3 STAGE 3 SHALL BE AS FOLLOWS:

1. WHEN ALL CONTRIBUTING AREAS ARE STABILIZED, OBTAIN APPROVAL FROM THE WAKE COUNTY WATERSHED MANAGER TO REMOVE THE TEMPORARY SKIMMER BASINS AND TO CONVERT THE SEDIMENT BASINS (SB) TO PERMANENT STORMWATER CONTROL MEASURES (SCM). SEE RECOMMENDED INSTRUCTIONS TO CONVERT SEDIMENT BASINS TO PERMANENT STORMWATER CONTROL MEASURES ON THIS SHEET OF THE PROJECT CONSTRUCTION DRAWINGS.
2. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL THE WAKE COUNTY WATERSHED MANAGER FOR AN INSPECTION.
3. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCES, ETC. AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS SHOULD BE INSTALLED.
4. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER.

MAINTENANCE OF EROSION CONTROL MEASURES

SILT FENCE MAINTENANCE - ANY DAMAGE IS TO BE REPAIRED AS SOON AS POSSIBLE AFTER IT IS DISCOVERED. FENCE POSTS ARE TO BE STRAIGHTENED OR REPLACED AS NECESSARY. WIRE FENCING SUPPORTING THE FILTER FABRIC SHALL BE REPLACED AS NECESSARY. ANY TORN FILTER FABRIC SHALL BE PATCHED OR REPLACED. WHEN STONE IS CONTAMINATED IT SHALL BE REMOVED AND REPLACED WITH CLEAN STONE.

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 - ANY SEGMENTS THAT ARE DAMAGED ARE TO BE REPLACED AS SOON AS POSSIBLE FOLLOWING DISCOVERY.

CONSTRUCTION ENTRANCE - IF ANY OF THE STONE SHALL BE LOST, IT SHALL BE REPLACED. IF THE FILTER FABRIC UNDER THE STONE IS DAMAGED, THAT PORTION SHALL BE REPLACED. IF THE STONE BECOMES COMPLETELY CLOGGED WITH SOIL, IT SHALL BE REMOVED AND REPLACED.

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 - THESE BASINS SHALL BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER EVERY STORM OF 1" OR MORE OF RAIN. DEBRIS SHALL BE REMOVED IMMEDIATELY. ANY DAMAGE TO THE TRAP SHALL BE REPAIRED TO THE STANDARD FOR INITIAL CONSTRUCTION. SEDIMENT IS TO BE REMOVED WHEN IT REACHES 6" DEEP OR AT LEAST ONCE EVERY SIX MONTHS.

SEDIMENT BASINS - ALL REQUIREMENTS FOR SEDIMENT TRAPS SHALL APPLY.

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

BAFFLES - SHALL BE INSPECTED AFTER EACH SIGNIFICANT RAINFALL AND AT LEAST ONCE A WEEK. IF NECESSARY, THEY SHALL BE REPAIRED TO THE ORIGINAL PERFORMANCE LEVEL USING MATERIALS SPECIFIED IN THE DETAIL.

DITCH LINER - SHALL BE INSPECTED AT LEAST ONCE A WEEK AND FOLLOWING SIGNIFICANT RAINFALL. IF NECESSARY, THE LINER SHALL BE REPLACED WITH THE ORIGINAL TYPE MATERIAL AND ANCHORED ACCORDING TO THE METHODS SHOWN ON SHEET CD3.

SKIMMERS - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. THEY SHALL BE CLEANED OF DEBRIS AND ANY REPAIRS MADE TO THE ORIGINAL QUALITY OR THE ITEM REPLACED.

RIP-RAP CHANNEL - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. IF STONE IS MISSING IT SHALL BE REPLACED TO THE ORIGINAL SPECIFICATIONS. DEBRIS AND SEDIMENT SHALL BE REMOVED AS NECESSARY.

RIP-RAP APRONS - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. IF STONE IS MISSING, IT SHALL BE REPLACED TO THE ORIGINAL SPECIFICATIONS. DEBRIS AND SEDIMENT SHALL BE REMOVED AS NECESSARY.

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

WATTLES - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. ACCUMULATED SEDIMENT SHALL BE REMOVED. IF THE WATTLE ANCHORS ARE DISPLACED OR DAMAGED THEY SHALL BE REINSTALLED OR REPLACED. IF THE WATTLE IS DAMAGED SUCH THAT IT NO LONGERS FUNCTIONS, IT SHALL BE REPLACED.

INLET PROTECTION - SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT RAINFALL. SEDIMENT SHALL BE REMOVED. IF STONE IS SIGNIFICANTLY CLOGGED, IT SHALL BE REMOVED AND REPLACED WITH CLEAN STONE. ANY DAMAGE TO SILT FENCE TYPE PROTECTION SHALL BE REPAIRED BY PATCHING OR REPLACEMENT.

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. APPROVEDSCMs 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 SCM.
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).

STOCKPILE DESIGN MAINTENANCE REQUIREMENTS

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).

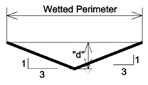
OBTAIN CERTIFICATE OF COMPLETION. FINALIZE NCG01 PERMIT

STANDARD NOTES:

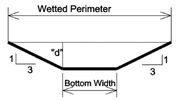
1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   A) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC 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. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
7. 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.
8. 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.
9. INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
10. 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.
11. 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.
12. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
13. 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.
14. 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".

NPDES Stormwater Discharge Permit for Construction Activities (NCGO1) — NCDENR/Division of Energy, Mineral and Land Resources

STABILIZATION TIMEFRAMES
(Effective Aug. 3,



Ditch Section (For Bottom Width = 0)
(Not To Scale)



Trapezoidal Ditch / Swale Section
(Not To Scale)

TEMPORARY TRIANGULAR SWALE DRAINAGE CHART - MERRITT RESERVE PHASE 1

Ditch I.D.	D.A., AC.	C	i_{10}, in/hr	Q_{10}, cfs	Left Side Slope, Z z:1	Right Side Slope, Z z:1	Avg. Ditch Slope, %	Bottom Width	Ditch Lining*	Manning, n	Min. Ditch Depth, ft**	Flow Velocity V_{10}, fps	Calc.Shear Stress, psf
PHASE 1 STAGE 1													
TDD 1.1	0.32	0.60	7.20	**1.38**	2.00	2.00	0.41	0.00	**Jute Netting**	0.033	**1.02**	**1.34**	0.18
TDD 1.2	6.24	0.60	7.20	**26.96**	2.00	2.00	0.50	0.00	**Geocoir/Dekowe; Straw; RS-1**	0.033	**2.40**	**3.06**	0.65
TDD 1A.1	4.73	0.60	7.20	**20.43**	2.00	2.00	3.40	0.00	**Am. Excelsior Co.; Curlex High Velocity; 2 nets**	0.033	**1.62**	**5.84**	2.81
TDD 1B.1	3.04	0.60	7.20	**13.13**	2.00	2.00	1.09	0.00	**Profile; Futerra**	0.033	**1.69**	**3.41**	0.94
TDD 2.1A	12.21	0.60	7.20	**52.75**	2.00	2.00	0.50	0.00	**Profile; Futerra**	0.033	**3.00**	**3.62**	0.84
TDD 2.1B	12.84	0.60	7.20	**55.47**	2.00	2.00	7.89	0.00	**North Am. Green C350; Vegetated**	0.033	**1.94**	**10.29**	8.08
TDD 4.1	3.82	0.60	7.20	**16.50**	2.00	2.00	0.79	0.00	**Geocoir/Dekowe; Straw; RS-1**	0.033	**1.90**	**3.21**	0.79
TDD 4.2	1.24	0.60	7.20	**5.36**	2.00	2.00	2.22	0.00	**Am. Excelsior Co.; Straw; 1 net**	0.033	**1.17**	**3.55**	1.20
PHASE 1 STAGE 2													
TDD 2.2	2.22	0.60	7.20	**9.59**	2.00	2.00	0.50	0.00	**Jute Netting**	0.033	**1.73**	**2.36**	0.45
TDD 2.3	2.08	0.60	7.20	**8.99**	2.00	2.00	0.57	0.00	**Geocoir/Dekowe; Straw; RS-1**	0.033	**1.66**	**2.43**	0.48
TDD 3.1	4.27	0.60	7.20	**18.45**	2.00	2.00	0.20	0.00	**Am. Excelsior Co.; Curlex High Velocity; 2 nets**	0.033	**2.46**	**1.97**	0.27

*An approved equal alternate lining may be used
**Ditch depth is Q10 flow depth +0.3 ft of freeboard

Rev. 08/14/25

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TEMPORARY TRIANGULAR SWALE DRAINAGE CHART - MERRITT RESERVE PHASE 2 & 3

Ditch I.D.	D.A., AC.	C	i_{10}, in/hr	Q_{10}, cfs	Left Side Slope, Z z:1	Right Side Slope, Z z:1	Avg. Ditch Slope, %	Bottom Width	Ditch Lining*	Manning, n	Min. Ditch Depth, ft**	Flow Velocity V10, fps	Calc.Shear Stress, psf
PHASE 2 & 3 STAGE 1													
TDD 1A.2	2.32	0.60	7.20	**10.02**	2.00	2.00	1.87	0.00	**E. Coast Ero. Blank.; Straw/Coir, 2 Jute nets**	0.033	**1.43**	**3.90**	1.32
TDD 5.1	2.11	0.60	7.20	**9.12**	2.00	2.00	3.13	0.00	**NAG; 70% straw: 30% Coconut; double net**	0.033	**1.29**	**4.61**	1.94
TDD 5A.1	1.84	0.60	7.20	**7.95**	2.00	2.00	2.44	0.00	**Am. Excelsior Co.; Curlex I.73; 1 net**	0.033	**1.29**	**4.06**	1.51
TDD 5A.2	1.24	0.60	7.20	**5.36**	2.00	2.00	0.56	0.00	**Jute Netting**	0.033	**1.42**	**2.12**	0.39
TDD 5B.1	0.26	0.60	7.20	**1.12**	2.00	2.00	3.50	0.00	**Profile; Futerra**	0.033	**0.74**	**2.83**	0.97
TDD 5C.1	4.18	0.60	7.20	**18.06**	2.00	2.00	0.88	0.00	**Profile; Futerra**	0.033	**1.93**	**3.41**	0.89
TDD 6.1	1.27	0.60	7.20	**5.49**	2.00	2.00	1.40	0.00	**Profile; Futerra**	0.033	**1.26**	**3.00**	0.83
TDD 6.2	0.91	0.60	7.20	**3.93**	2.00	2.00	2.16	0.00	**Am. Excelsior Co.; Straw; 1 net**	0.033	**1.08**	**3.25**	1.05
TDD 6A.1	1.71	0.60	7.20	**7.39**	2.00	2.00	1.97	0.00	**Am. Excelsior Co.; Straw; 1 net**	0.033	**1.30**	**3.68**	1.23
TDD 6B.1	1.60	0.60	7.20	**6.91**	2.00	2.00	0.97	0.00	**Geocoir/Dekowe; Straw; RS-1**	0.033	**1.42**	**2.78**	0.68
TDD 6B.2	3.53	0.60	7.20	**15.25**	2.00	2.00	3.95	0.00	**Am. Excelsior Co.; Curlex High Velocity; 2 nets**	0.033	**1.45**	**5.73**	2.84
TDD 7.1	0.21	0.60	7.20	**0.91**	2.00	2.00	3.11	0.00	**Geocoir/Dekowe; Straw; RS-1**	0.033	**0.72**	**2.57**	0.82
TDD 7.2	2.74	0.60	7.20	**11.84**	2.00	2.00	2.47	0.00	**E. Coast Ero. Blank.; Excelsior, 1 net**	0.033	**1.45**	**4.51**	1.77
TDD 8A.1	2.50	0.60	7.20	**10.80**	2.00	2.00	0.64	0.00	**Geocoir/Dekowe; Straw; RS-1**	0.033	**1.72**	**2.66**	0.57
TDD 8B.1	7.33	0.60	7.20	**31.67**	2.00	2.00	0.37	0.00	**Geocoir/Dekowe; Straw; RS-1**	0.033	**2.66**	**2.85**	0.54
TDD 8B.2	0.85	0.60	7.20	**3.67**	2.00	2.00	0.20	0.00	**Jute Netting**	0.033	**1.48**	**1.31**	0.15
TDD 9.1	1.23	0.60	7.20	**5.31**	2.00	2.00	0.63	0.00	**Jute Netting**	0.033	**1.40**	**2.21**	0.43
PHASE 2 & 3 STAGE 2													
TDD 5.2	0.96	0.60	7.20	**4.15**	2.00	2.00	0.41	0.00	**E. Coast Ero. Blank.; Straw/Coir, 2 Jute nets**	0.033	**1.38**	**1.77**	0.28
TDD 5.3	1.20	0.60	7.20	**5.18**	2.00	2.00	1.93	0.00	**NAG; 70% straw: 30% Coconut; double net**	0.033	**1.18**	**3.34**	1.06
TDD 5A.3	0.90	0.60	7.20	**3.89**	2.00	2.00	0.12	0.00	**Am. Excelsior Co.; Curlex I.73; 1 net**	0.033	**1.63**	**1.10**	0.10
TDD 5A.4	0.54	0.60	7.20	**2.33**	2.00	2.00	0.19	0.00	**Jute Netting**	0.033	**1.31**	**1.15**	0.12
TDD 5A.5	2.76	0.60	7.20	**11.92**	2.00	2.00	1.20	0.00	**Profile; Futerra**	0.033	**1.61**	**3.45**	0.98
TDD 6.3A	0.70	0.60	7.20	**3.02**	2.00	2.00	0.30	0.00	**Profile; Futerra**	0.033	**1.32**	**1.45**	0.19
TDD 6.3B	1.39	0.60	7.20	**6.00**	2.00	2.00	5.42	0.00	**Profile; Futerra**	0.033	**1.07**	**5.10**	2.60
TDD 8A.2	3.92	0.60	7.20	**16.93**	2.00	2.00	0.28	0.00	**Profile; Futerra**	0.033	**2.27**	**2.19**	0.34
TDD 8B.3	7.93	0.60	7.20	**34.26**	2.00	2.00	0.25	0.00	**Am. Excelsior Co.; Straw; 1 net**	0.033	**2.91**	**2.51**	0.41
TDD 8B.4	0.75	0.60	7.20	**3.24**	2.00	2.00	0.17	0.00	**Am. Excelsior Co.; Straw; 1 net**	0.033	**1.46**	**1.20**	0.12
TDD 9.2	2.13	0.60	7.20	**9.20**	2.00	2.00	0.15	0.00	**Geocoir/Dekowe; Straw; RS-1**	0.033	**2.06**	**1.49**	0.16
TDD 10.1	0.96	0.60	7.20	**4.15**	2.00	2.00	1.03	0.00	**Am. Excelsior Co.; Curlex High Velocity; 2 nets**	0.033	**1.21**	**2.50**	0.59

*An approved equal alternate lining may be used
**Ditch depth is Q10 flow depth +0.3 ft of freeboard

Rev. 08/14/25

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$$v = \frac{1.486}{n} R_H^{2/3} S^{1/2}$$

where

Q = discharge or flow rate (ft^3/sec)
v = flow velocity (ft/sec)
n = Manning's roughness coefficient
A = cross-sectional area of flow (ft^2)
R_H = hydraulic radius (ft) = $\frac{A}{P}$
P = wetted perimeter (ft)
S = slope of the energy grade line (ft/ft) = $\frac{h_L}{L}$
h_L = head loss (ft)
L = pipe length (ft)

TEMPORARY SLOPE DRAINS - MERRIT RESERVE PHASE 1

Slope Drain I.D.	D.A., AC.	C	i_{10}, in/hr	Q_{10}, cfs	Inv. Up	Inv. Dn	Pipe Length (ft)	Pipe Slope (ft/ft)	No. of Barrels	Manning, n	Recommended Slope Drain Size (in)*
PHASE 1 STAGE 1											
TDD 1.1	0.32	0.60	7.20	1.38	388.56	384.00	23	0.198	1	0.013	12
TDD 1.2	6.24	0.60	7.20	26.96	385.31	384.00	24	0.055	1	0.013	36
TDD 1B.1	3.04	0.60	7.20	13.13	379.17	374.00	132	0.039	1	0.013	24
TDD 2.1B	12.84	0.60	7.20	55.47	359.00	357.00	38	0.053	1	0.013	48
TDD 4.1	3.82	0.60	7.20	16.50	378.67	360.00	46	0.406	1	0.013	30
TDD 4.2	1.24	0.60	7.20	5.36	377.94	360.00	43	0.417	1	0.013	18
PHASE 1 STAGE 2											
TDD 3.1	4.27	0.60	7.20	18.45	375.00	373.00	10	0.200	1	0.013	30

*Recommended size based on conveyance and inlet capacity

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Rev. 08/14/25

TEMPORARY SLOPE DRAINS - MERRITT RESERVE PHASE 2 & 3

Slope Drain I.D.	D.A., AC.	C	i_{10}, in/hr	Q_{10}, cfs	Inv. Up	Inv. Dn	Pipe Length (ft)	Pipe Slope (ft/ft)	No. of Barrels	Manning, n	Recommended Slope Drain Size (in)**
PHASE 2 & 3 STAGE 1											
TDD 5.1	2.11	0.60	7.20	9.12	307.00	292.00	38	0.395	1	0.013	24
TDD 5A.1	1.84	0.60	7.20	7.95	337.58	310.00	85	0.324	1	0.013	24
TDD 5A.2	1.24	0.60	7.20	5.36	336.21	310.00	78	0.336	1	0.013	18
TDD 5B.1	0.26	0.60	7.20	1.12	312.65	291.00	81	0.267	1	0.013	12
TDD 5C.1	4.18	0.60	7.20	18.06	312.65	291.00	81	0.267	1	0.013	30
TDD 6.1	1.27	0.60	7.20	5.49	326.40	322.00	27	0.163	1	0.013	18
TDD 6.2	0.91	0.60	7.20	3.93	321.80	321.00	24	0.033	1	0.013	15
TDD 6B.2	3.53	0.60	7.20	15.25	299.50	288.00	45	0.256	1	0.013	30
TDD 7.2	2.74	0.60	7.20	11.84	362.70	361.00	22	0.077	1	0.013	24
TDD 8A.1	2.50	0.60	7.20	10.80	364.50	363.00	16	0.094	1	0.013	24
TDD 8B.1	7.33	0.60	7.20	31.67	349.00	343.00	49	0.122	1	0.013	36
TDD 8B.2	0.85	0.60	7.20	3.67	344.50	343.00	23	0.065	1	0.013	15
TDD 9.1	1.23	0.60	7.20	5.31	360.40	360.00	30	0.013	1	0.013	18
PHASE 2 & 3 STAGE 2											
TDD 5.2	0.96	0.60	7.20	4.15	296.50	292.00	22	0.205	1	0.013	15
TDD 5.3	1.20	0.60	7.20	5.18	310.50	292.00	49	0.378	1	0.013	18
TDD 5A.5	2.76	0.60	7.20	11.92	334.00	305.00	84	0.345	1	0.013	24
TDD 6.3B	1.39	0.60	7.20	6.00	330.50	322.00	46	0.185	1	0.013	18
TDD 8A.2	3.92	0.60	7.20	16.93	361.36	361.00	34	0.011	1	0.013	30
TDD 8B.3	7.93	0.60	7.20	34.26	342.83	342.00	25	0.033	1	0.013	36
TDD8B.4	0.75	0.60	7.20	3.24	346.00	342.00	18	0.222	1	0.013	15
TDD 9.2	2.13	0.60	7.20	9.20	362.50	361.00	27	0.056	1	0.013	24
TDD 10.1	0.96	0.60	7.20	4.15	380.00	375.00	11	0.455	1	0.013	15

*Recommended size based on conveyance and inlet capacity

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Rev. 08/14/25

Rip Rap Dissipater Calculations 10-Year Storm

Outlet ID	Pipe Diameter (in)	Stone Class	Stone Depth (in)	Stone Material (tons)	Geo-Textile (SY)	Start Width (ft)	End Width (ft)	Length (ft)
FES 100	30	B	18	5	16	5	15	10
FES 120	30	B	18	5	16	5	15	10
FES 139	18	B	12	2	7	3	9	6
FES OS 1A	30	B	18	5	16	5.0	15	10
FES 140	36	B	18	7	22	6.0	18	12
FES OS 1B	18	B	12	2	7	3	9	6
FES 160	15	B	12	1	5	2.5	7.5	5
FES OS 1C	18	B	12	2	7	3	9	6
FES 200	30	B	18	5	16	5	15	10
FES 250	18	B	12	2	7	3	9	6
FES OS 2	24	B	15	3	11	4	12	8
FES 400	36	B	18	7	22	6	18	12
FES OS 4	36	B	18	7	22	6	18	12
FES 500	48	I	24	17	38	8	24	16
FES OS 5A	24	B	15	3	11	4	12	8
FES 550	18	B	12	2	7	3	9	6
FES OS 5B	18	B	12	2	7	3	9	6
FES 560	30	B	18	5	16	5	15	10
FES OS 5C	18	B	12	2	7	3	9	6
FES 600	15	B	12	1	5	2.5	7.5	5
FES OS 6A	18	B	12	2	7	3	9	6
FES 610	24	B	15	3	11	4	12	8
FES 630	18	B	12	2	7	3	9	6
FES OS 6B	18	B	12	2	7	3	9	6
FES 700	24	B	15	3	11	4	12	8
FES OS 7	18	B	12	2	7	3	9	6
GRNWY 100	15	B	12	1	5	2.5	7.5	5
GRNWY 110	15	B	12	1	5	2.5	7.5	5
GRNWY 120	15	B	12	1	5	2.5	7.5	5
EW 11	60 (DBL)	I	30	26	56	18	18	36
EW 21	42	B	24	10	28	7	21	14
EW 31	60	I	30	26	56	18.0	18	36

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
DBL is double barrel pipe

Rev. 07/13/25

PROJECT NUMBER = CID-25-02

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

PRELIMINARY
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 36528 JAKOB P. KLEE
DO NOT USE FOR CONSTRUCTION
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE
SWALE AND SLOPE DRAIN SCHEDULE
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:
SWALE AND SLOPE DRAIN SCHEDULE

SHEET NO.: **G-005**

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

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2025-09-03

STRM - SCM 1A - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 101	FES 100	30"	Reinforced Concrete Pipe	104.80	6.87%	346.50	353.70
CB 102	CB 101	24"	Reinforced Concrete Pipe	102.65	0.54%	354.20	354.75
CB 103	CB 102	15"	Reinforced Concrete Pipe	43.84	0.50%	355.50	355.72
CB 104	CB 103	15"	Reinforced Concrete Pipe	28.00	0.50%	355.95	356.09
CB 104A	CB 104	15"	Reinforced Concrete Pipe	38.58	1.00%	356.29	356.68
CB 105	CB 104	15"	Reinforced Concrete Pipe	111.66	0.50%	356.29	356.85
CB 105A	CB 105	15"	Reinforced Concrete Pipe	28.51	0.50%	356.85	356.99
CB 106	CB 102	24"	Reinforced Concrete Pipe	28.00	0.54%	355.25	355.40
CB 107	CB 106	24"	Reinforced Concrete Pipe	43.84	3.76%	355.60	357.25
CB 108	CB 107	24"	Reinforced Concrete Pipe	28.01	0.54%	357.45	357.60
CB 108A	CB 108	15"	Reinforced Concrete Pipe	43.13	1.59%	357.85	358.54
CB 109	CB 108	18"	Reinforced Concrete Pipe	238.74	2.18%	357.80	363.00
CB 109A	CB 109	15"	Reinforced Concrete Pipe	45.23	2.00%	363.25	364.15
CB 111	JB 110	15"	Reinforced Concrete Pipe	146.61	1.84%	370.15	372.85
CB 111A	CB 111	15"	Reinforced Concrete Pipe	28.00	1.00%	373.05	373.33
CB 112	CB 111	15"	Reinforced Concrete Pipe	45.58	4.50%	373.05	375.10
CB 112A	CB 112	15"	Reinforced Concrete Pipe	28.00	1.00%	375.30	375.58
CB 112B	CB 112	15"	Reinforced Concrete Pipe	99.53	6.33%	375.30	381.60
CB 113	CB 101	30"	Reinforced Concrete Pipe	28.98	0.52%	354.20	354.35
CB 114	CB 113	18"	Reinforced Concrete Pipe	88.77	0.62%	355.10	355.65
CB 115	CB 114	18"	Reinforced Concrete Pipe	121.13	0.62%	355.75	356.50
CB 115A	CB 115	15"	Reinforced Concrete Pipe	30.91	0.50%	356.70	356.85
CB 116	CB 115	15"	Reinforced Concrete Pipe	217.76	0.96%	356.60	358.70
CB 125	YI 124	30"	Reinforced Concrete Pipe	156.74	0.50%	352.52	353.30
CB 125A	CB 125	18"	Reinforced Concrete Pipe	28.00	0.60%	354.33	354.50
CB 126	CB 125	24"	Reinforced Concrete Pipe	86.39	4.40%	353.50	357.30
CB 127	CB 126	24"	Reinforced Concrete Pipe	43.84	2.97%	357.50	358.80
CB 128	CB 127	24"	Reinforced Concrete Pipe	28.00	0.50%	359.00	359.14
CB 129	CB 128	24"	Reinforced Concrete Pipe	43.84	0.57%	359.35	359.60
CB 130	CB 129	18"	Reinforced Concrete Pipe	28.02	0.50%	360.10	360.24
CB 131	CB 130	18"	Reinforced Concrete Pipe	43.14	0.60%	360.44	360.70
CB 131A	CB 131	15"	Reinforced Concrete Pipe	26.01	0.50%	360.95	361.08
CB 132	CB 131	18"	Reinforced Concrete Pipe	106.05	0.50%	360.90	361.43
CB 134	JB 133	15"	Reinforced Concrete Pipe	57.23	4.89%	362.50	365.30
CB 134A	CB 134	15"	Reinforced Concrete Pipe	26.00	0.96%	367.34	367.59
CB 135	CB 134	15"	Reinforced Concrete Pipe	161.00	5.99%	365.50	375.15
CB 136	CB 129	24"	Reinforced Concrete Pipe	111.29	3.86%	359.80	364.10
CB 136A	CB 136	24"	Reinforced Concrete Pipe	28.00	0.50%	364.30	364.44
CB 137	CB 125A	18"	Reinforced Concrete Pipe	60.54	0.66%	354.70	355.10
CB 138	CB 137	15"	Reinforced Concrete Pipe	26.00	0.58%	355.35	355.50
JB 110	CB 109	15"	Reinforced Concrete Pipe	211.86	3.16%	363.25	369.95
JB 133	CB 132	15"	Reinforced Concrete Pipe	60.79	1.07%	361.65	362.30
YI 112C	CB 112B	15"	Reinforced Concrete Pipe	81.50	6.00%	381.80	386.69
YI 113A	CB 113	24"	Reinforced Concrete Pipe	81.81	0.73%	354.55	355.15
YI 113B	YI 113A	18"	Reinforced Concrete Pipe	72.15	0.69%	355.65	356.15
YI 113C	YI 113B	18"	Reinforced Concrete Pipe	96.14	0.68%	356.35	357.00
YI 113D	YI 113C	15"	Reinforced Concrete Pipe	202.63	2.26%	357.25	361.84
YI 121	FES 120	30"	Reinforced Concrete Pipe	30.56	6.87%	346.50	348.60
YI 122	YI 121	30"	Reinforced Concrete Pipe	163.30	0.85%	348.70	350.09
YI 123	YI 122	30"	Reinforced Concrete Pipe	201.56	0.50%	350.19	351.20

STRM - SCM 1A Out - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS-1A	FES-OS-1A	30"	Reinforced Concrete Pipe	67.69	1.48%	345.00	346.00

STRM - SCM 1B - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 142	YI 141	42"	Reinforced Concrete Pipe	108.26	0.50%	375.90	376.44
CB 143	CB 142	42"	Reinforced Concrete Pipe	27.68	0.50%	376.55	376.69
CB 143A	CB 143	36"	Reinforced Concrete Pipe	105.99	0.75%	376.90	377.70
CB 144	CB 143	30"	Reinforced Concrete Pipe	160.20	0.84%	376.90	378.25
CB 144A	CB 144	18"	Reinforced Concrete Pipe	34.36	2.00%	379.50	380.19
CB 145	CB 144	30"	Reinforced Concrete Pipe	292.67	0.80%	378.35	380.70
CB 145A	CB 145	15"	Reinforced Concrete Pipe	28.00	0.50%	381.95	382.09
CB 145B	CB 145A	15"	Reinforced Concrete Pipe	39.91	0.50%	382.19	382.39
CB 145C	CB 145B	15"	Reinforced Concrete Pipe	34.85	0.50%	382.49	382.66
CB 145D	CB 145C	15"	Reinforced Concrete Pipe	44.14	0.50%	382.76	382.98
CB 146	CB 145	30"	Reinforced Concrete Pipe	43.29	0.58%	380.90	381.15
CB 146A	CB 146	15"	Reinforced Concrete Pipe	28.04	0.53%	382.40	382.55
CB 146B	CB 146A	15"	Reinforced Concrete Pipe	44.39	1.00%	382.75	383.19
CB 148	CB 146	24"	Reinforced Concrete Pipe	196.77	0.69%	381.65	383.00
CB 149	CB 148	24"	Reinforced Concrete Pipe	41.95	0.50%	383.10	383.31
CB 150	CB 149	24"	Reinforced Concrete Pipe	29.27	0.50%	383.41	383.56
CB 150A	CB 150	18"	Reinforced Concrete Pipe	45.62	0.55%	384.05	384.30
CB 150B	CB 150A	18"	Reinforced Concrete Pipe	28.36	0.50%	384.50	384.64
CB 151	CB 150	18"	Reinforced Concrete Pipe	114.44	1.00%	384.05	385.20
CB 152	CB 151	15"	Reinforced Concrete Pipe	149.12	1.01%	385.45	386.95
CB 153	CB 152	15"	Reinforced Concrete Pipe	42.07	0.50%	387.05	387.26
CB 154	CB 153	15"	Reinforced Concrete Pipe	28.00	0.50%	387.36	387.50
CB 154A	CB 154	15"	Reinforced Concrete Pipe	50.22	0.50%	387.60	387.85
FES 146C	CB 146A	15"	Reinforced Concrete Pipe	88.94	3.75%	382.75	386.09
JB-147	CB 143A	30"	Reinforced Concrete Pipe	164.84	0.50%	377.80	378.62
YI 141	FES 140	42"	Reinforced Concrete Pipe	56.88	0.50%	375.50	375.78
YI 151A	CB 151	15"	Reinforced Concrete Pipe	126.74	0.50%	385.45	386.08
YI 155	YI 156	15"	Reinforced Concrete Pipe	156.02	0.49%	382.96	383.73
YI 156	YI 157	15"	Reinforced Concrete Pipe	140.67	0.50%	382.16	382.86
YI 157	YI 158	18"	Reinforced Concrete Pipe	141.57	0.50%	381.20	381.91
YI 158	YI 158A	24"	Reinforced Concrete Pipe	138.27	0.51%	380.00	380.70
YI 158A	JB-147	30"	Reinforced Concrete Pipe	143.18	0.52%	378.75	379.50
YI 159	YI 158A	15"	Reinforced Concrete Pipe	82.24	0.50%	380.75	381.16

STRM - SCM 1B Out - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS-1B	FES-OS-1B	18"	Reinforced Concrete Pipe	53.41	1.87%	374.00	375.00

STRM - SCM 1C - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 163	FES 162	15"	Reinforced Concrete Pipe	89.42	1.17%	371.97	373.02
CB 164	CB 163	15"	Reinforced Concrete Pipe	34.03	1.00%	373.60	373.94
YI 161	FES 160	15"	Reinforced Concrete Pipe	54.82	4.57%	360.73	363.24

STRM - SCM 1C Out - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS-1C	FES-OS-1C	18"	Reinforced Concrete Pipe	67.22	0.74%	359.50	360.00

STRM - SCM 2 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 202	YI 201	36"	Reinforced Concrete Pipe	87.77	0.51%	354.10	354.55
CB 202A	CB 202	30"	Reinforced Concrete Pipe	28.54	0.50%	355.80	355.94
CB 203	CB 202	36"	Reinforced Concrete Pipe	112.12	0.50%	354.75	355.31
CB 203A	CB 203	15"	Reinforced Concrete Pipe	28.14	0.50%	356.55	356.69
CB 204	CB 203	36"	Reinforced Concrete Pipe	41.79	0.50%	355.50	355.71
CB 205	CB 204	36"	Reinforced Concrete Pipe	28.01	0.50%	355.81	355.95
CB 206	CB 205	36"	Reinforced Concrete Pipe	41.08	0.50%	356.05	356.26
CB 207	CB 206	36"	Reinforced Concrete Pipe	46.93	0.50%	356.36	356.59
CB 208	CB 207	24"	Reinforced Concrete Pipe	28.00	0.50%	357.10	357.24
CB 209	CB 208	24"	Reinforced Concrete Pipe	43.84	0.50%	357.34	357.56
CB 209	CB 209A	15"	Reinforced Concrete Pipe	28.00	0.50%	358.31	358.45
CB 210	CB 209	18"	Reinforced Concrete Pipe	93.18	3.58%	358.06	361.40
CB 211	CB 210	18"	Reinforced Concrete Pipe	92.15	5.97%	361.50	367.00
CB 211A	CB 211	15"	Reinforced Concrete Pipe	28.25	0.50%	367.25	367.39
CB 212	CB 211	18"	Reinforced Concrete Pipe	45.24	3.54%	367.20	368.80
CB 213	CB 212	18"	Reinforced Concrete Pipe	28.24	1.06%	369.00	369.30
CB 214	CB 213	18"	Reinforced Concrete Pipe	45.69	6.13%	369.40	372.20
CB 215	CB 214	15"	Reinforced Concrete Pipe	100.60	5.22%	372.45	377.70
CB 216	CB 215	15"	Reinforced Concrete Pipe	82.67	3.87%	377.80	381.00
CB 216A	CB 216	15"	Reinforced Concrete Pipe	28.13	0.50%	381.20	381.34
CB 217	CB 216	15"	Reinforced Concrete Pipe	41.48	2.41%	381.20	382.20
CB 217A	CB 217	15"	Reinforced Concrete Pipe	28.00	1.00%	382.30	382.58
CB 223	CB 202	24"	Reinforced Concrete Pipe	111.70	0.50%	355.05	355.61
CB 223A	CB 223	15"	Reinforced Concrete Pipe	28.75	0.50%	356.36	356.50
CB 224	CB 223	15"	Reinforced Concrete Pipe	43.84	0.55%	356.36	356.60
CB 224A	CB 224	15"	Reinforced Concrete Pipe	28.01	1.00%	356.80	357.08
CB 225	CB 224	15"	Reinforced Concrete Pipe	57.44	1.91%	356.80	357.90
CB 226	CB 207	30"	Reinforced Concrete Pipe	66.60	0.50%	357.60	357.93
CB 227	CB 226	24"	Reinforced Concrete Pipe	45.06	0.50%	358.15	358.38
CB 227A	CB 227	18"	Reinforced Concrete Pipe	28.06	0.50%	358.63	358.77
CB 228	CB 227	24"	Reinforced Concrete Pipe	87.91	0.50%	358.58	359.02
FES 226C	JB 226B	12"	Reinforced Concrete Pipe	164.38	0.50%	359.07	359.89
FES 251	FES 250	18"	Reinforced Concrete Pipe	55.28	8.85%	354.31	359.20
JB 202B	CB 202A	24"	Reinforced Concrete Pipe	39.39	0.63%	356.05	356.30
JB 202C	JB 202B	18"	Reinforced Concrete Pipe	116.94	0.51%	356.40	357.00
JB 225A	CB 225	15"	Reinforced Concrete Pipe	49.49	1.01%	358.10	358.60
JB 226A	CB 226	18"	Reinforced Concrete Pipe	51.99	0.50%	358.18	358.44
JB 226B	JB 226A	18"	Reinforced Concrete Pipe	52.90	0.51%	358.55	358.82
YI 201	FES 200	36"	Reinforced Concrete Pipe	55.64	4.49%	351.50	354.00
YI 202D	JB 202C	15"	Reinforced Concrete Pipe	19.12	1.05%	357.20	357.40
YI 202E	YI 202D	15"	Reinforced Concrete Pipe	80.73	0.93%	357.50	358.25
YI 202F	YI 202E	15"	Reinforced Concrete Pipe	45.51	3.48%	358.35	359.93
YI 202G	JB 202C	15"	Reinforced Concrete Pipe	56.29	0.71%	357.20	357.60
YI 202H	YI 202G	15"	Reinforced Concrete Pipe	101.92	0.59%	357.70	358.30
YI 202I	YI 202H	15"	Reinforced Concrete Pipe	105.79	2.16%	358.40	360.68
YI 210A	CB 210	15"	Reinforced Concrete Pipe	84.23	9.02%	361.65	369.25
YI 210B	YI 210A	15"	Reinforced Concrete Pipe	74.54	1.01%	369.35	370.10
YI 210C	YI 210B	15"	Reinforced Concrete Pipe	166.31	0.96%	370.20	371.80
YI 210D	YI 210C	15"	Reinforced Concrete Pipe	106.06	0.60%	371.90	372.54
YI 225B	JB 225A	15"	Reinforced Concrete Pipe	23.64	3.58%	358.80	359.65
YI 229	CB 228	18"	Reinforced Concrete Pipe	82.57	0.97%	359.20	360.00
YI 230	YI 229	18"	Reinforced Concrete Pipe	197.31	2.58%	360.20	365.30
YI 231	YI 230	18"	Reinforced Concrete Pipe	203.13	3.01%	365.40	371.51

STRM - SCM 2 Out - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS-2	FES-OS-2	24"	Reinforced Concrete Pipe	69.91	1.43%	350.00	351.00

PROJECT NUMBER = CID-25-02

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

PRELIMINARY
NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN
DO NOT USE FOR CONSTRUCTION
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE
ROLESVILLE RD
WAKE COUNTY NC 27312

STORM PIPE SCHEDULE

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

STORM PIPE SCHEDULE

SHEET NO.:

G-006

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

STRM - SCM 4 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 401	FES 400	48"	Reinforced Concrete Pipe	29.20	0.69%	362.00	362.20
CB 402	CB 401	48"	Reinforced Concrete Pipe	28.01	2.86%	362.40	363.20
CB 403	CB 402	42"	Reinforced Concrete Pipe	33.80	0.89%	363.70	364.00
CB 404	CB 403	36"	Reinforced Concrete Pipe	43.84	0.91%	364.10	364.50
CB 405	CB 404	36"	Reinforced Concrete Pipe	28.00	1.07%	364.70	365.00
CB 405A	CB 405	15"	Reinforced Concrete Pipe	42.11	2.00%	366.25	367.09
CB 406	CB 405	36"	Reinforced Concrete Pipe	67.79	0.89%	365.20	365.80
CB 407	CB 406	36"	Reinforced Concrete Pipe	56.32	1.07%	365.90	366.50
CB 407A	CB 407	36"	Reinforced Concrete Pipe	35.48	0.85%	367.50	367.80
CB 408	CB 407	24"	Reinforced Concrete Pipe	127.50	2.67%	367.00	370.40
CB 409	CB 408	18"	Reinforced Concrete Pipe	64.62	2.94%	370.90	372.80
CB 410	CB 409	18"	Reinforced Concrete Pipe	49.98	2.40%	372.90	374.10
CB 411	CB 410	18"	Reinforced Concrete Pipe	137.71	0.94%	374.20	375.50
CB 412	CB 411	18"	Reinforced Concrete Pipe	34.00	0.88%	375.60	375.90
CB 413	CB 412	15"	Reinforced Concrete Pipe	115.23	0.74%	376.15	377.00
CB 414	CB 413	15"	Reinforced Concrete Pipe	28.00	0.71%	377.10	377.30
CB 415	CB 414	15"	Reinforced Concrete Pipe	78.85	0.63%	377.40	377.90
CB 416	CB 415	15"	Reinforced Concrete Pipe	76.95	0.65%	378.00	378.50
CB 417	CB 416	15"	Reinforced Concrete Pipe	28.00	0.71%	378.60	378.80
CB 418	CB 417	15"	Reinforced Concrete Pipe	37.37	5.64%	379.00	381.11
CB 419	CB 408	24"	Reinforced Concrete Pipe	28.10	0.71%	370.60	370.80
CB 420	CB 419	24"	Reinforced Concrete Pipe	43.42	1.15%	370.90	371.40
CB 421	CB 420	24"	Reinforced Concrete Pipe	29.43	1.36%	371.90	372.30
CB 422	CB 421	24"	Reinforced Concrete Pipe	54.01	0.74%	372.40	372.80
CB 422A	CB 422	18"	Reinforced Concrete Pipe	34.02	0.88%	373.00	373.30
CB 422C	CB 422A	15"	Reinforced Concrete Pipe	53.16	0.66%	373.55	373.90
CB 422D	CB 422C	15"	Reinforced Concrete Pipe	28.00	0.71%	374.00	374.20
CB 422E	CB 422D	15"	Reinforced Concrete Pipe	44.04	5.13%	374.30	376.56
CB 423	CB 422	15"	Reinforced Concrete Pipe	297.67	0.79%	373.05	375.40
CB 423A	CB 423	15"	Reinforced Concrete Pipe	34.07	5.22%	375.60	377.38
CB 424	CB 423	15"	Reinforced Concrete Pipe	237.37	0.84%	375.60	377.60
CB 425	CB 424	15"	Reinforced Concrete Pipe	54.00	0.74%	377.70	378.10
CB 426	CB 425	15"	Reinforced Concrete Pipe	28.51	0.70%	378.20	378.40
CB 427	CB 426	15"	Reinforced Concrete Pipe	74.49	0.67%	378.50	379.00
CB 428	CB 401	30"	Reinforced Concrete Pipe	97.08	1.55%	363.70	365.20
CB 429	CB 428	15"	Reinforced Concrete Pipe	181.82	3.82%	365.45	372.40
CB 429A	CB 429	15"	Reinforced Concrete Pipe	29.58	1.00%	372.50	372.80
CB 430	CB 401	24"	Reinforced Concrete Pipe	206.01	0.53%	363.20	364.30
CB 431	CB 430	15"	Reinforced Concrete Pipe	28.00	4.11%	365.05	366.20
CB 432	CB 431	15"	Reinforced Concrete Pipe	46.67	5.79%	366.30	369.00
CB 433	CB 432	15"	Reinforced Concrete Pipe	101.48	3.84%	369.10	373.00
CB 433A	CB 433	15"	Reinforced Concrete Pipe	34.02	1.00%	373.10	373.44
CB 434	CB 430	15"	Reinforced Concrete Pipe	46.67	0.54%	365.05	365.30
CB 435	CB 434	15"	Reinforced Concrete Pipe	34.00	0.59%	365.40	365.60
CB 436	CB 435	15"	Reinforced Concrete Pipe	46.67	1.50%	365.70	366.40
CB 436A	CB 436	15"	Reinforced Concrete Pipe	28.00	2.00%	366.50	367.06
JB 407F	YI 407E	15"	Reinforced Concrete Pipe	250.51	0.76%	379.10	381.00
YI 404A	CB 404	18"	Reinforced Concrete Pipe	21.89	8.90%	365.75	367.70
YI 407B	CB 407A	36"	Reinforced Concrete Pipe	113.77	0.70%	367.90	368.70
YI 407C	YI 407B	24"	Reinforced Concrete Pipe	130.00	0.77%	368.80	369.80
YI 407D	YI 407C	15"	Reinforced Concrete Pipe	136.00	3.13%	370.05	374.30
YI 407E	YI 407D	15"	Reinforced Concrete Pipe	176.29	2.61%	374.40	379.00
YI 407G	JB 407F	15"	Reinforced Concrete Pipe	124.36	0.50%	381.10	381.72
YI 422B	CB 422A	15"	Reinforced Concrete Pipe	74.04	5.28%	373.55	377.46

STRM - SCM 4 Out - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS-4	FES-OS-4	36"	Reinforced Concrete Pipe	227.60	0.88%	355.00	357.00

STRM - SCM 5A - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 503	YI 502	48"	Reinforced Concrete Pipe	110.09	0.50%	322.66	323.21
CB 503A	CB 503	48"	Reinforced Concrete Pipe	9.04	0.20%	323.44	323.46
CB 504	CB 503	48"	Reinforced Concrete Pipe	90.20	0.50%	323.44	323.90
CB 504A	CB 504	15"	Reinforced Concrete Pipe	28.00	0.50%	327.10	327.24
CB 505	CB 504	48"	Reinforced Concrete Pipe	96.91	1.00%	324.10	325.06
CB 505A	CB 505	15"	Reinforced Concrete Pipe	48.95	0.70%	328.27	328.62
CB 506	CB 505	48"	Reinforced Concrete Pipe	105.50	1.00%	325.16	326.22
CB 507	CB 506	30"	Reinforced Concrete Pipe	110.22	1.52%	327.22	328.90
CB 508	CB 507	24"	Reinforced Concrete Pipe	130.56	2.14%	329.40	332.20
CB 509	CB 508	18"	Reinforced Concrete Pipe	132.41	3.85%	332.70	337.80
CB 509A	CB 509	15"	Reinforced Concrete Pipe	62.44	5.00%	338.05	341.17
CB 510	CB 509	15"	Reinforced Concrete Pipe	201.00	6.89%	338.05	351.90
CB 510A	CB 510	15"	Reinforced Concrete Pipe	63.00	7.50%	352.00	356.73
CB 511	YI 502	24"	Reinforced Concrete Pipe	37.83	9.36%	324.46	328.00
CB 511A	CB 511	15"	Reinforced Concrete Pipe	28.38	9.00%	328.20	330.75
CB 512	CB 511	24"	Reinforced Concrete Pipe	67.67	9.46%	328.20	334.60
CB 512A	CB 512	15"	Reinforced Concrete Pipe	33.62	6.00%	335.48	337.49
CB 513	CB 512	24"	Reinforced Concrete Pipe	66.50	9.47%	334.80	341.10
CB 514	CB 513	18"	Reinforced Concrete Pipe	89.62	9.48%	341.20	349.70
CB 514A	CB 514	18"	Reinforced Concrete Pipe	59.37	2.69%	349.80	351.40
CB 514B	CB 514A	15"	Reinforced Concrete Pipe	30.81	0.80%	351.69	351.94
CB 515	CB 506	48"	Reinforced Concrete Pipe	28.01	0.64%	326.42	326.60
CB 516	CB 515	48"	Reinforced Concrete Pipe	45.48	1.10%	326.70	327.20
CB 517	CB 516	48"	Reinforced Concrete Pipe	28.15	0.71%	327.30	327.50
CB 517A	CB 517	36"	Reinforced Concrete Pipe	45.94	0.55%	328.67	328.92
CB 517B	CB 517A	36"	Reinforced Concrete Pipe	115.61	0.55%	329.12	329.76
CB 518	CB 517	36"	Reinforced Concrete Pipe	75.32	4.51%	328.00	331.40
CB 519	CB 518	36"	Reinforced Concrete Pipe	118.13	5.67%	331.50	338.20
CB 519A	CB 519	15"	Reinforced Concrete Pipe	67.95	0.73%	340.24	340.74
CB 520	CB 519	30"	Reinforced Concrete Pipe	118.62	4.13%	338.70	343.60
CB 521	CB 520	30"	Reinforced Concrete Pipe	96.00	4.38%	344.10	348.30
CB 522	CB 521	30"	Reinforced Concrete Pipe	67.78	4.57%	348.40	351.50
CB 522A	CB 522	18"	Reinforced Concrete Pipe	30.18	0.83%	352.25	352.50
CB 522E	CB 522A	15"	Reinforced Concrete Pipe	8.53	5.86%	352.70	353.20
CB 523	CB 522	30"	Reinforced Concrete Pipe	67.24	5.35%	351.70	355.30
CB 524	CB 523	30"	Reinforced Concrete Pipe	133.10	1.66%	355.50	357.72
CB 524A	CB 524	24"	Reinforced Concrete Pipe	28.01	0.55%	358.30	358.45
CB 525	CB 524	24"	Reinforced Concrete Pipe	66.11	9.23%	358.50	364.60
CB 525A	CB 525	15"	Reinforced Concrete Pipe	47.99	6.50%	365.48	368.59
CB 526	CB 525	18"	Reinforced Concrete Pipe	129.00	5.81%	365.10	372.60
CB 527	CB 526	18"	Reinforced Concrete Pipe	60.24	3.15%	372.70	374.60
CB 528	CB 527	18"	Reinforced Concrete Pipe	44.83	3.35%	374.70	376.20
CB 528A	CB 528	15"	Reinforced Concrete Pipe	28.09	0.50%	376.45	376.59
CB 529	CB 528	15"	Reinforced Concrete Pipe	98.44	0.66%	376.45	377.10
CB 530	CB 529	15"	Reinforced Concrete Pipe	205.64	1.02%	377.20	379.30
CB 531	CB 530	15"	Reinforced Concrete Pipe	128.18	1.64%	379.40	381.50
CB 531A	CB 531	15"	Reinforced Concrete Pipe	28.05	0.50%	381.70	381.84
CB 532	CB 531	15"	Reinforced Concrete Pipe	89.74	0.89%	381.70	382.50
CB 532A	CB 532	15"	Reinforced Concrete Pipe	28.07	1.07%	382.60	382.90
CB 533	CB 532A	15"	Reinforced Concrete Pipe	45.00	1.11%	383.00	383.50
CB 534	CB 523	18"	Reinforced Concrete Pipe	50.67	3.95%	355.80	357.80
CB 535	CB 534	18"	Reinforced Concrete Pipe	43.84	4.33%	357.90	359.80
CB 535A	CB 535	15"	Reinforced Concrete Pipe	28.53	1.00%	360.05	360.34
CB 536	CB 535	15"	Reinforced Concrete Pipe	131.64	1.41%	360.05	361.90
CB 536A	CB 536	15"	Reinforced Concrete Pipe	28.09	1.00%	362.00	362.28
CB 537	CB 536	15"	Reinforced Concrete Pipe	173.32	2.54%	362.00	366.40
CB 537A	CB 537	15"	Reinforced Concrete Pipe	38.55	2.75%	366.50	367.56
CB 538	CB 520	24"	Reinforced Concrete Pipe	28.50	1.05%	344.10	344.40
CB 539	CB 538	18"	Reinforced Concrete Pipe	48.00	4.79%	344.90	347.20
CB 539A	CB 539	15"	Reinforced Concrete Pipe	28.00	1.00%	347.45	347.73

STRM - SCM 5A - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 541	JB 540	15"	Reinforced Concrete Pipe	73.25	3.41%	352.50	355.00
CB 541A	CB 541	15"	Reinforced Concrete Pipe	27.89	1.00%	355.20	355.48
JB 500A	FES 500	48"	Reinforced Concrete Pipe	74.66	1.00%	316.00	316.75
JB 524B	CB 524A	24"	Reinforced Concrete Pipe	24.99	0.55%	358.65	358.79
JB 524C	JB 524B	24"	Reinforced Concrete Pipe	66.15	0.55%	358.99	359.35
JB 524E	YI 524D	18"	Reinforced Concrete Pipe	56.89	2.47%	360.44	361.84
JB 540	CB 539	15"	Reinforced Concrete Pipe	115.72	4.28%	347.45	352.40
JB 541B	CB 541	15"	Reinforced Concrete Pipe	68.10	0.71%	355.40	355.88
YI 500B	JB 500A	48"	Reinforced Concrete Pipe	123.53	1.00%	316.95	318.19
YI 501	YI 500B	48"	Reinforced Concrete Pipe	132.05	2.50%	318.30	321.60
YI 502	YI 501	48"	Reinforced Concrete Pipe	72.83	0.50%	322.10	322.46
YI 504B	CB 504A	15"	Reinforced Concrete Pipe	50.31	0.59%	327.44	327.74
YI 505B	CB 505A	15"	Reinforced Concrete Pipe	127.00	0.50%	328.82	329.45
YI 512B	CB 512A	15"	Reinforced Concrete Pipe	32.23	7.00%	337.69	339.95
YI 514C	CB 514B	15"	Reinforced Concrete Pipe	151.52	0.80%	352.14	353.35
YI 517C	CB 517B	36"	Reinforced Concrete Pipe	126.36	0.98%	329.76	331.00
YI 517D	YI 517C	30"	Reinforced Concrete Pipe	139.17	3.49%	332.05	336.90
YI 517E	YI 517D	30"	Reinforced Concrete Pipe	67.59	5.57%	337.10	340.87
YI 517F	YI 517E	30"	Reinforced Concrete Pipe	66.53	6.73%	341.07	345.55
YI 517G	YI 517F	24"	Reinforced Concrete Pipe	67.48	7.62%	346.13	351.27
YI 517H	YI 517G	24"	Reinforced Concrete Pipe	68.15	6.98%	351.47	356.23
YI 517I	YI 517H	24"	Reinforced Concrete Pipe	199.34	4.85%	356.43	366.09
YI 517J	YI 517I	18"	Reinforced Concrete Pipe	134.33	1.10%	366.68	368.16
YI 517K	YI 517J	15"	Reinforced Concrete Pipe	67.01	0.55%	368.65	369.02
YI 517L	YI 517K	15"	Reinforced Concrete Pipe	65.33	0.55%	369.22	369.58
YI 519B	CB 519A	15"	Reinforced Concrete Pipe	130.12	1.00%	340.94	342.24
YI 522B	CB 522A	15"	Reinforced Concrete Pipe	81.67	0.55%	352.70	353.15
YI 522C	YI 522B	15"	Reinforced Concrete Pipe	59.62	0.75%	353.25	353.70
YI 522D	YI 522C	15"	Reinforced Concrete Pipe	119.81	3.70%	353.80	358.23
YI 522F	CB 522E	15"	Reinforced Concrete Pipe	73.00	9.86%	353.30	360.50
YI 522G	YI 522F	15"	Reinforced Concrete Pipe	50.41	4.36%	360.60	362.80
YI 522H	YI 522G	15"	Reinforced Concrete Pipe	49.51	2.22%	362.90	364.00
YI 522I	YI 522H	15"	Reinforced Concrete Pipe	52.06	0.96%	364.10	364.60
YI 522J	YI 522I	15"	Reinforced Concrete Pipe	49.83	5.51%	364.70	367.45
YI 524D	JB 524C	18"	Reinforced Concrete Pipe	54.95	0.55%	359.94	360.24
YI 524F	JB 524E	18"	Reinforced Concrete Pipe	122.04	1.33%	362.04	363.67
YI 524G	YI 524F	15"	Reinforced Concrete Pipe	114.79	2.42%	363.96	366.73
YI 524H	YI 524G	15"	Reinforced Concrete Pipe	260.41	1.47%	366.93	370.77
YI 524I	YI 524H	15"	Reinforced Concrete Pipe	52.00	0.55%	370.97	371.26
YI 524J	YI 524I	15"	Reinforced Concrete Pipe	52.00	0.55%	371.46	371.75
YI 524K	YI 524J	15"	Reinforced Concrete Pipe	49.90	0.55%	371.95	372.22
YI 525B	CB 525A	15"	Reinforced Concrete Pipe	137.04	4.95%	368.79	375.58
YI 525D	YI 525B	15"	Reinforced Concrete Pipe	206.06	2.00%	375.78	379.90
YI 525G	YI 525D	15"	Reinforced Concrete Pipe	156.09	1.50%	380.10	382.44
YI 541C	JB 541B	15"	Reinforced Concrete Pipe	118.06	1.00%	356.08	357.27

STRM - SCM 5A Out - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS-5A	FES-OS-5A	24"	Reinforced Concrete Pipe	96.78	1.92%	307.23	309.09

PROJECT NUMBER = CID-25-02

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

PRELIMINARY
NORTH CAROLINA PROFESSIONAL ENGINEER JAKOB P. KLEE 36528
NOT TO BE USED FOR CONSTRUCTION
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE
STORM PIPE SCHEDULE
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:
STORM PIPE SCHEDULE

SHEET NO.: **G-007**

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

Z:\Job\23-0004 Merritt Property (BIO)\dwg_Working Dwgs\Sheets\Construction Set\4. G-004 General Notes and Schedule.dwg
2025-09-03

STRM - SCM 5C - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 562	JB 561	30"	Reinforced Concrete Pipe	79.00	3.92%	300.40	303.50
CB 562A	CB 562	18"	Reinforced Concrete Pipe	176.32	0.85%	304.50	306.00
CB 563	CB 562	24"	Reinforced Concrete Pipe	163.56	4.59%	304.00	311.50
CB 564	CB 563	24"	Reinforced Concrete Pipe	180.72	4.09%	311.60	319.00
CB 565	CB 564	24"	Reinforced Concrete Pipe	228.43	5.73%	319.10	332.20
CB 566	CB 565	24"	Reinforced Concrete Pipe	340.82	5.63%	332.30	351.50
CB 567	CB 566	18"	Reinforced Concrete Pipe	334.23	1.80%	352.00	358.00
CB 567B	JB 567A	15"	Reinforced Concrete Pipe	33.26	6.31%	360.40	362.50
CB 568	JB 567A	15"	Reinforced Concrete Pipe	40.91	2.44%	360.40	361.40
CB 569	CB 568	15"	Reinforced Concrete Pipe	101.67	3.93%	361.50	365.50
CB 570	CB 569	15"	Reinforced Concrete Pipe	289.58	2.35%	365.60	372.40
CB 571	CB 570	15"	Reinforced Concrete Pipe	276.54	0.61%	372.50	374.20
CB 572	CB 571	15"	Reinforced Concrete Pipe	389.26	0.62%	374.30	376.70
CB 572A	CB 572	15"	Reinforced Concrete Pipe	86.96	0.57%	376.80	377.30
JB 561	FES 560	30"	Reinforced Concrete Pipe	45.11	8.20%	293.00	296.70
JB 567A	CB 567	15"	Reinforced Concrete Pipe	67.12	2.91%	358.25	360.20

STRM - SCM 5C Out - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS-5C	FES-OS-5C	18"	Reinforced Concrete Pipe	60.57	1.65%	290.00	291.00

STRM - SCM 6A - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 603	JB 602	15"	Reinforced Concrete Pipe	127.96	9.30%	291.20	303.10
CB 604	CB 603	15"	Reinforced Concrete Pipe	76.30	6.82%	303.30	308.50
CB 604A	CB 604	18"	Reinforced Concrete Pipe	37.85	2.08%	308.70	309.49
CB 605	CB 604	15"	Reinforced Concrete Pipe	132.56	7.17%	308.70	318.20
CB 605A	CB 605	15"	Reinforced Concrete Pipe	28.02	1.00%	318.40	318.68
JB 602	YI 601	15"	Reinforced Concrete Pipe	55.12	8.71%	286.20	291.00
YI 601	FES 600	15"	Reinforced Concrete Pipe	94.12	4.25%	282.00	286.00

STRM - SCM 6A Out - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS-6A	FES-OS-6A	18"	Reinforced Concrete Pipe	101.87	3.44%	273.00	276.50

STRM - SCM 6B - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 612	JB 611	24"	Reinforced Concrete Pipe	129.20	6.97%	292.00	301.00
CB 613	CB 612	24"	Reinforced Concrete Pipe	41.93	1.00%	301.28	301.70
CB 613A	CB 613	18"	Reinforced Concrete Pipe	48.73	0.60%	301.91	302.20
CB 613B	CB 613A	15"	Reinforced Concrete Pipe	34.30	0.70%	302.40	302.64
CB 614	CB 613	24"	Reinforced Concrete Pipe	41.52	10.00%	301.90	306.05
CB 615	CB 614	24"	Reinforced Concrete Pipe	45.78	9.94%	306.25	310.80
CB 615A	CB 615	18"	Reinforced Concrete Pipe	164.31	4.75%	311.00	318.80
CB 615B	CB 615A	15"	Reinforced Concrete Pipe	28.00	1.00%	319.00	319.28
CB 616	CB 615	24"	Reinforced Concrete Pipe	28.28	9.90%	311.00	313.80
CB 617	CB 616	24"	Reinforced Concrete Pipe	54.26	9.95%	314.00	319.40
CB 617A	CB 617	15"	Reinforced Concrete Pipe	34.00	10.00%	319.60	323.00
CB 618	CB 617	24"	Reinforced Concrete Pipe	118.07	6.27%	319.60	327.00
CB 618A	CB 618	15"	Reinforced Concrete Pipe	66.41	6.63%	327.20	331.60
CB 618B	CB 618A	15"	Reinforced Concrete Pipe	32.00	0.59%	331.80	331.99
CB 619	CB 618	18"	Reinforced Concrete Pipe	34.52	1.87%	327.20	327.84
CB 620	CB 619	18"	Reinforced Concrete Pipe	54.02	0.80%	328.04	328.48
CB 621	CB 620	18"	Reinforced Concrete Pipe	32.39	0.90%	328.68	328.97
CB 622	CB 621	18"	Reinforced Concrete Pipe	49.14	1.11%	329.17	329.71
CB 623	CB 622	18"	Reinforced Concrete Pipe	34.09	0.80%	329.91	330.19
CB 624	CB 623	15"	Reinforced Concrete Pipe	158.24	3.30%	330.48	335.70
CB 625	CB 624	15"	Reinforced Concrete Pipe	46.67	4.50%	335.90	338.00
CB 625A	CB 625	15"	Reinforced Concrete Pipe	28.00	-0.71%	338.20	338.00
CB 626	CB 625	15"	Reinforced Concrete Pipe	224.01	2.72%	338.20	344.30
CB 627	CB 626	15"	Reinforced Concrete Pipe	43.82	0.91%	344.50	344.90
CB 628	CB 627	15"	Reinforced Concrete Pipe	92.62	1.25%	345.10	346.26
CB 628A	CB 628	15"	Reinforced Concrete Pipe	28.03	0.61%	346.50	346.67
CB 633	JB 632	15"	Reinforced Concrete Pipe	78.57	1.91%	301.20	302.70
CB 634	CB 633	15"	Reinforced Concrete Pipe	208.97	1.00%	302.90	305.00
JB 611	FES 610	30"	Reinforced Concrete Pipe	21.60	6.95%	290.00	291.50
JB 631	FES 630	18"	Reinforced Concrete Pipe	11.26	8.88%	289.00	290.00
JB 632	JB 631	15"	Reinforced Concrete Pipe	110.64	9.76%	290.20	301.00
YI 616A	CB 616	15"	Reinforced Concrete Pipe	23.76	4.21%	315.79	316.79

STRM - SCM 6B Out - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS-6B	FES-OS-6B	18"	Reinforced Concrete Pipe	91.94	1.90%	282.25	284.00

STRM - SCM 7 - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB 702A	JB 702	24"	Reinforced Concrete Pipe	82.19	0.70%	327.75	328.32
CB 703	JB 702	18"	Reinforced Concrete Pipe	39.05	7.04%	327.75	330.50
CB 703A	CB 703	18"	Reinforced Concrete Pipe	30.68	0.70%	330.70	330.91
CB 704	CB 703	15"	Reinforced Concrete Pipe	124.07	5.43%	330.70	337.44
CB 752	JB 751	18"	Reinforced Concrete Pipe	159.46	9.59%	328.70	344.00
JB 701	FES 700	30"	Reinforced Concrete Pipe	50.79	0.50%	322.50	322.75
JB 702	JB 701	30"	Reinforced Concrete Pipe	126.98	3.58%	322.95	327.50
JB 751	FES 750	24"	Reinforced Concrete Pipe	62.25	9.64%	322.50	328.50
JB 753	CB 752	18"	Reinforced Concrete Pipe	78.25	1.05%	344.20	345.02

STRM - SCM 7 Out - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
OS-7	FES-OS-7	18"	Reinforced Concrete Pipe	76.90	5.62%	313.68	318.00

Greenway Culverts - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
FES 1000	FES 1001	15"	Reinforced Concrete Pipe	37.06	1.89%	270.50	271.20
FES 1002	FES 1003	15"	Reinforced Concrete Pipe	27.85	3.59%	279.00	280.00
FES 1004	FES 1005	15"	Reinforced Concrete Pipe	27.29	2.75%	297.50	298.25

Culverts - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
		72"	Reinforced Concrete Pipe	70.74	1.77%	349.50	350.75
FES 40	FES 41	15"	Reinforced Concrete Pipe	118.21	0.85%	375.00	376.00
HW 10	EW 11	72"	Reinforced Concrete Pipe	70.74	1.77%	349.50	350.75
HW 20	EW 21	54"	Reinforced Concrete Pipe	114.19	0.96%	370.80	371.90
HW 30	EW 31	60"	Reinforced Concrete Pipe	131.59	3.12%	285.00	289.10

STRM - Offsite Storm - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
CB-1001	JB-1000	18"	Reinforced Concrete Pipe	42.41	0.50%	382.00	382.21
CB-1002	CB-1001	18"	Reinforced Concrete Pipe	146.73	0.50%	382.40	383.13
CB-1003	CB-1002	18"	Reinforced Concrete Pipe	84.10	0.50%	383.30	383.72
CB-1004	CB-1003	18"	Reinforced Concrete Pipe	163.33	0.50%	383.90	384.72
CB-1005	CB-1004	18"	Reinforced Concrete Pipe	248.08	0.50%	384.90	386.14
CB-1006	CB-1005	18"	Reinforced Concrete Pipe	135.36	0.50%	386.35	387.03
CB-1010	JB-1000	18"	Reinforced Concrete Pipe	104.53	0.50%	382.00	382.52
CB-1011	CB-1010	18"	Reinforced Concrete Pipe	41.30	0.50%	382.75	382.96
JB-1000		18"	Reinforced Concrete Pipe	32.72	2.67%	380.92	381.79
YI-1007	CB-1006	18"	Reinforced Concrete Pipe	51.68	0.50%	387.20	387.46

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

PRELIMINARY
NOT FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE

STORM PIPE SCHEDULE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

STORM PIPE SCHEDULE

SHEET NO.:

G-008

PROJECT NUMBER = CID-25-02

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

Z:\Jobs\23-0004 Merritt Property BRP\Dwg_Working Dwgs\Sheets\Construction Set\4. G-004 General Notes and Schedule.dwg

2025-09-03

Culverts - Structure Table	
Structure Name	Details
EW 11	RIM = 356.17 INV IN = 349.500
EW 21	RIM = 374.84 INV IN = 370.800
EW 31	RIM = 290.58 INV IN = 285.000
FES 40	RIM = 377.52 INV OUT = 376.000
FES 41	RIM = 376.52 INV IN = 375.000
HW 10	RIM = 357.42 INV OUT = 350.750
HW 20	RIM = 375.94 INV OUT = 371.900
HW 30	RIM = 294.68 INV OUT = 289.100

Greenway Culverts - Structure Table	
Structure Name	Details
FES 1000	RIM = 272.72 INV OUT = 271.200
FES 1001	RIM = 272.02 INV IN = 270.500
FES 1002	RIM = 281.52 INV OUT = 280.000
FES 1003	RIM = 280.52 INV IN = 279.000
FES 1004	RIM = 299.77 INV OUT = 298.250
FES 1005	RIM = 299.02 INV IN = 297.500

STRM - SCM 1C - Structure Table	
Structure Name	Details
CB 163	RIM = 381.95 INV IN = 373.595 INV OUT = 373.017
CB 164	RIM = 381.21 INV OUT = 373.935
FES 160	RIM = 362.25 INV IN = 360.734
FES 162	RIM = 373.50 INV IN = 371.974
YI 161	RIM = 367.64 INV OUT = 363.240

STRM - SCM 1C Out - Structure Table	
Structure Name	Details
FES-OS-1C	RIM = 359.45 INV IN = 359.500
OS-1C	RIM = 363.43 INV OUT = 360.000

STRM - SCM 1A - Structure Table	
Structure Name	Details
CB 101	RIM = 359.93 INV IN = 354.200 INV IN = 354.200 INV OUT = 353.700
CB 102	RIM = 361.97 INV IN = 355.250 INV IN = 355.500 INV OUT = 354.750
CB 103	RIM = 363.44 INV IN = 355.950 INV OUT = 355.719
CB 104	RIM = 363.51 INV IN = 356.290 INV IN = 356.290 INV OUT = 356.090
CB 104A	RIM = 364.15 INV OUT = 356.676
CB 105	RIM = 362.60 INV IN = 356.850 INV OUT = 356.850
CB 105A	RIM = 362.46 INV OUT = 356.993
CB 106	RIM = 361.97 INV IN = 355.600 INV OUT = 355.400
CB 107	RIM = 363.81 INV IN = 357.450 INV OUT = 357.250
CB 108	RIM = 363.82 INV IN = 357.800 INV IN = 357.850 INV OUT = 357.600
CB 108A	RIM = 364.25 INV OUT = 358.536
CB 109	RIM = 371.19 INV IN = 363.250 INV IN = 363.250 INV OUT = 363.000
CB 109A	RIM = 372.31 INV OUT = 364.155
CB 111	RIM = 380.34 INV IN = 373.050 INV IN = 373.050 INV OUT = 372.850
CB 111A	RIM = 380.27 INV OUT = 373.330
CB 112	RIM = 383.02 INV IN = 375.300 INV IN = 375.300 INV OUT = 375.100
CB 112A	RIM = 383.02 INV OUT = 375.580
CB 112B	RIM = 388.02 INV IN = 381.800 INV OUT = 381.600
CB 113	RIM = 359.93 INV IN = 354.550 INV IN = 355.100 INV OUT = 354.350
CB 114	RIM = 360.54 INV IN = 355.750 INV OUT = 355.650
CB 115	RIM = 362.14 INV IN = 356.700 INV IN = 356.600 INV OUT = 356.500
CB 115A	RIM = 362.43 INV OUT = 356.855
CB 116	RIM = 364.92 INV OUT = 358.697
CB 125	RIM = 362.39 INV IN = 353.500 INV IN = 354.332 INV OUT = 353.300
CB 125A	RIM = 362.28 INV IN = 354.700 INV OUT = 354.500
CB 126	RIM = 365.23 INV IN = 357.500 INV OUT = 357.300
CB 127	RIM = 366.95 INV IN = 359.000 INV OUT = 358.800
CB 128	RIM = 367.13 INV IN = 359.350 INV OUT = 359.140
CB 129	RIM = 367.86 INV IN = 360.100 INV IN = 359.800 INV OUT = 359.600
CB 130	RIM = 367.66 INV IN = 360.440 INV OUT = 360.240
CB 131	RIM = 367.09 INV IN = 360.900 INV IN = 360.950 INV OUT = 360.700
CB 131A	RIM = 366.92 INV OUT = 361.080

STRM - SCM 1A - Structure Table	
Structure Name	Details
CB 132	RIM = 368.26 INV IN = 361.650 INV OUT = 361.430
CB 134	RIM = 372.92 INV IN = 367.340 INV IN = 365.500 INV OUT = 365.300
CB 134A	RIM = 372.97 INV OUT = 367.590
CB 135	RIM = 383.13 INV OUT = 375.145
CB 136	RIM = 373.40 INV IN = 364.300 INV OUT = 364.100
CB 136A	RIM = 373.13 INV IN = 365.190 INV OUT = 364.440
CB 137	RIM = 361.72 INV IN = 355.350 INV OUT = 355.100
CB 138	RIM = 361.72 INV OUT = 355.500
FES 100	RIM = 349.38 INV IN = 346.500
FES 120	RIM = 349.88 INV IN = 346.500
JB 110	RIM = 377.80 INV IN = 370.150 INV OUT = 369.950
JB 133	RIM = 370.18 INV IN = 362.500 INV IN = 362.500 INV OUT = 362.300
YI 112C	RIM = 391.42 INV OUT = 386.690
YI 113A	RIM = 362.05 INV IN = 355.650 INV OUT = 355.150
YI 113B	RIM = 359.76 INV IN = 356.350 INV OUT = 356.150
YI 113C	RIM = 360.90 INV IN = 357.250 INV OUT = 357.000
YI 113D	RIM = 366.70 INV OUT = 361.837
YI 121	RIM = 357.59 INV IN = 348.700 INV OUT = 348.600
YI 122	RIM = 357.89 INV IN = 350.192 INV OUT = 350.090
YI 123	RIM = 361.22 INV IN = 351.301 INV OUT = 351.200
YI 124	RIM = 361.43 INV IN = 352.520 INV OUT = 352.300
YI 133A	RIM = 368.56 INV OUT = 363.434
YI 136B	RIM = 367.52 INV OUT = 365.575

STRM - SCM 1A Out - Structure Table	
Structure Name	Details
FES-OS-1A	RIM = 347.88 INV IN = 345.000
OS-1A	RIM = 349.48 INV OUT = 346.000

STRM - SCM 1B - Structure Table	
Structure Name	Details
YI 157	RIM = 384.85 INV IN = 382.158 INV OUT = 381.908
YI 158	RIM = 384.91 INV IN = 381.200 INV OUT = 380.700
YI 158A	RIM = 385.11 INV IN = 380.750 INV IN = 380.000 INV OUT = 379.500
YI 159	RIM = 382.91 INV OUT = 381.161

STRM - SCM 1B Out - Structure Table	
Structure Name	Details
FES-OS-1B	RIM = 375.79 INV IN = 374.000
OS-1B	RIM = 379.36 INV OUT = 375.000

STRM - SCM 1B - Structure Table	
Structure Name	Details
CB 142	RIM = 386.35 INV IN = 376.550 INV OUT = 376.441
CB 143	RIM = 386.12 INV IN = 376.900 INV IN = 376.900 INV OUT = 376.688
CB 143A	RIM = 387.12 INV IN = 377.800 INV OUT = 377.700
CB 144	RIM = 387.46 INV IN = 378.350 INV IN = 379.500 INV OUT = 378.250
CB 144A	RIM = 387.62 INV OUT = 380.187
CB 145	RIM = 389.80 INV IN = 380.900 INV IN = 381.950 INV OUT = 380.700
CB 145A	RIM = 389.80 INV IN = 382.190 INV OUT = 382.090
CB 145B	RIM = 388.01 INV IN = 382.490 INV OUT = 382.390
CB 145C	RIM = 387.49 INV IN = 382.760 INV OUT = 382.664
CB 145D	RIM = 389.26 INV OUT = 382.981
CB 146	RIM = 390.04 INV IN = 381.650 INV IN = 382.400 INV OUT = 381.150
CB 146A	RIM = 389.83 INV IN = 382.750 INV IN = 382.750 INV OUT = 382.550
CB 146B	RIM = 389.48 INV OUT = 383.194
CB 148	RIM = 391.67 INV IN = 383.100 INV OUT = 383.000
CB 149	RIM = 392.29 INV IN = 383.410 INV OUT = 383.310
CB 150	RIM = 392.38 INV IN = 384.050 INV IN = 384.050 INV OUT = 383.556
CB 150A	RIM = 392.24 INV IN = 384.500 INV OUT = 384.300
CB 150B	RIM = 391.80 INV OUT = 384.642
CB 151	RIM = 393.33 INV IN = 385.450 INV IN = 385.450 INV OUT = 385.200
CB 152	RIM = 394.48 INV IN = 387.050 INV OUT = 386.950
CB 153	RIM = 393.84 INV IN = 387.360 INV OUT = 387.260
CB 154	RIM = 394.07 INV IN = 387.600 INV OUT = 387.500
CB 154A	RIM = 395.26 INV OUT = 387.851
FES 140	RIM = 378.94 INV IN = 375.500
FES 146C	RIM = 387.61 INV OUT = 386.087
JB-147	RIM = 387.27 INV IN = 378.750 INV OUT = 378.624
YI 141	RIM = 383.11 INV IN = 375.900 INV OUT = 375.784
YI 151A	RIM = 388.72 INV OUT = 386.084
YI 155	RIM = 386.89 INV OUT = 383.726
YI 156	RIM = 385.85 INV IN = 382.960 INV OUT = 382.861

STRM - SCM 2 - Structure Table	
Structure Name	Details
CB 202	RIM = 362.55 INV IN = 354.750 INV IN = 355.050 INV IN = 355.800 INV OUT = 354.550
CB 202A	RIM = 362.65 INV IN = 356.050 INV OUT = 355.943
CB 203	RIM = 363.48 INV IN = 355.500 INV IN = 356.550 INV OUT = 355.311
CB 203A	RIM = 363.49 INV OUT = 356.691
CB 204	RIM = 363.98 INV IN = 355.810 INV OUT = 355.709
CB 205	RIM = 363.99 INV IN = 356.050 INV OUT = 355.950
CB 206	RIM = 364.44 INV IN = 356.355 INV OUT = 356.255
CB 207	RIM = 364.74 INV IN = 357.100 INV IN = 357.600 INV OUT = 356.590
CB 208	RIM = 364.74 INV IN = 357.340 INV OUT = 357.240
CB 209	RIM = 365.56 INV IN = 358.060 INV OUT = 357.560 INV OUT = 358.450
CB 209A	RIM = 365.65 INV IN = 358.310
CB 210	RIM = 369.86 INV IN = 361.500 INV IN = 361.650 INV OUT = 361.400
CB 211	RIM = 375.02 INV IN = 367.200 INV IN = 367.250 INV OUT = 367.000
CB 211A	RIM = 375.23 INV OUT = 367.391
CB 212	RIM = 377.33 INV IN = 369.000 INV OUT = 368.800
CB 213	RIM = 377.80 INV IN = 369.400 INV OUT = 369.300
CB 214	RIM = 380.34 INV IN = 372.450 INV OUT = 372.200
CB 215	RIM = 385.71 INV IN = 377.800 INV OUT = 377.700
CB 216	RIM = 388.96 INV IN = 381.200 INV IN = 381.200 INV OUT = 381.000
CB 216A	RIM = 388.99 INV OUT = 381.341
CB 217	RIM = 390.18 INV IN = 382.300 INV OUT = 382.200
CB 217A	RIM = 390.18 INV OUT = 382.580
CB 223	RIM = 363.57 INV IN = 356.360 INV IN = 356.360 INV OUT = 355.610
CB 223A	RIM = 363.70 INV OUT = 356.504
CB 224	RIM = 364.75 INV IN = 356.800 INV IN = 356.800 INV OUT = 356.600
CB 224A	RIM = 364.78 INV OUT = 357.080
CB 225	RIM = 365.63 INV IN = 358.100 INV OUT = 357.900
CB 226	RIM = 365.30 INV IN = 358.150 INV IN = 358.183 INV OUT = 357.933
CB 227	RIM = 365.58 INV IN = 358.580 INV IN = 358.630 INV OUT = 358.375
CB 227A	RIM = 365.59 INV OUT = 358.770
CB 228	RIM = 365.35 INV IN = 359.200 INV OUT = 359.020
FES 200	RIM = 354.38 INV IN = 351.500
FES 226C	RIM = 361.14 INV OUT = 359.892

STRM - SCM 2 - Structure Table	
Structure Name	Details
FES 250	RIM = 356.10 INV IN = 354.309
FES 251	RIM = 360.99 INV OUT = 359.200
JB 202B	RIM = 362.75 INV IN = 356.400 INV OUT = 356.300
JB 202C	RIM = 362.27 INV IN = 357.200 INV IN = 357.200 INV OUT = 357.000
JB 225A	RIM = 366.43 INV IN = 358.800 INV OUT = 358.600
JB 226A	RIM = 365.42 INV IN = 358.550 INV OUT = 358.443
JB 226B	RIM = 365.62 INV IN = 359.070 INV OUT = 358.820
YI 201	RIM = 359.42 INV IN = 354.100 INV OUT = 354.000
YI 202D	RIM = 361.93 INV IN = 357.500 INV OUT = 357.400
YI 202E	RIM = 363.59 INV IN = 358.350 INV OUT = 358.250
YI 202F	RIM = 364.84 INV OUT = 359.935
YI 202G	RIM = 361.89 INV IN = 357.700 INV OUT = 357.600
YI 202H	RIM = 362.74 INV IN = 358.400 INV OUT = 358.300
YI 202I	RIM = 365.12 INV OUT = 360.681
YI 210A	RIM = 376.84 INV IN = 369.350 INV OUT = 369.250
YI 210B	RIM = 376.49 INV IN = 370.200 INV OUT = 370.100
YI 210C	RIM = 378.16 INV IN = 371.900 INV OUT = 371.800
YI 210D	RIM = 376.49 INV OUT = 372.536
YI 225B	RIM = 364.55 INV OUT = 359.646
YI 229	RIM = 364.22 INV IN = 360.200 INV OUT = 360.000
YI 230	RIM = 371.55 INV IN = 365.400 INV OUT = 365.300
YI 231	RIM = 376.52 INV OUT = 371.508

STRM - SCM 2 Out - Structure Table	
Structure Name	Details
FES-OS-2	RIM = 352.33 INV IN = 350.000
OS-2	RIM = 355.48 INV OUT = 351.000

STRM - SCM 4 - Structure Table	
Structure Name	Details
CB 401	RIM = 371.94 INV IN = 362.400 INV IN = 363.200 INV IN = 363.700 INV OUT = 362.200
CB 402	RIM = 371.94 INV IN = 363.700 INV OUT = 363.200
CB 403	RIM = 372.18 INV IN = 364.100 INV OUT = 364.000
CB 404	RIM = 372.99 INV IN = 364.700 INV IN = 365.750 INV OUT = 364.500
CB 405	RIM = 373.02 INV IN = 365.200 INV IN = 366.250 INV OUT = 365.000
CB 405A	RIM = 373.06 INV OUT = 367.092
CB 406	RIM = 375.08 INV IN = 365.900 INV OUT = 365.800
CB 407	RIM = 376.94 INV IN = 367.500 INV IN = 367.000 INV OUT = 366.500
CB 407A	RIM = 377.70 INV IN = 367.900 INV OUT = 367.800
CB 408	RIM = 380.11 INV IN = 370.900 INV IN = 370.600 INV OUT = 370.400
CB 409	RIM = 380.82 INV IN = 372.900 INV OUT = 372.800
CB 410	RIM = 382.08 INV IN = 374.200 INV OUT = 374.100
CB 411	RIM = 384.92 INV IN = 375.600 INV OUT = 375.500
CB 412	RIM = 384.49 INV IN = 376.150 INV OUT = 375.900
CB 413	RIM = 387.69 INV IN = 377.100 INV OUT = 377.000
CB 414	RIM = 387.69 INV IN = 377.400 INV OUT = 377.300
CB 415	RIM = 386.60 INV IN = 378.000 INV OUT = 377.900
CB 416	RIM = 385.96 INV IN = 378.600 INV OUT = 378.500
CB 417	RIM = 385.96 INV IN = 379.000 INV OUT = 378.800
CB 418	RIM = 386.87 INV OUT = 381.108
CB 419	RIM = 380.13 INV IN = 370.900 INV OUT = 370.800
CB 420	RIM = 380.58 INV IN = 371.900 INV OUT = 371.400
CB 421	RIM = 380.64 INV IN = 372.400 INV OUT = 372.300
CB 422	RIM = 381.78 INV IN = 373.050 INV IN = 373.000 INV OUT = 372.800
CB 422A	RIM = 381.93 INV IN = 373.550 INV IN = 373.550 INV OUT = 373.300
CB 422C	RIM = 382.06 INV IN = 374.000 INV OUT = 373.900
CB 422D	RIM = 381.71 INV IN = 374.300 INV OUT = 374.200
CB 422E	RIM = 381.97 INV OUT = 376.560
CB 423	RIM = 385.57 INV IN = 375.600 INV IN = 375.600 INV OUT = 375.400
CB 423A	RIM = 384.85 INV OUT = 377.380
CB 424	RIM = 387.27 INV IN = 377.700 INV OUT = 377.600

STRM - SCM 4 - Structure Table	
Structure Name	Details
CB 425	RIM = 385.62 INV IN = 378.200 INV OUT = 378.100
CB 426	RIM = 385.54 INV IN = 378.500 INV OUT = 378.400
CB 427	RIM = 386.24 INV OUT = 379.000
CB 428	RIM = 373.08 INV IN = 365.450 INV OUT = 365.200
CB 429	RIM = 380.34 INV IN = 372.500 INV OUT = 372.400
CB 429A	RIM = 380.75 INV OUT = 372.796
CB 430	RIM = 373.72 INV IN = 365.050 INV IN = 365.050 INV OUT = 364.300
CB 431	RIM = 374.06 INV IN = 366.300 INV OUT = 366.200
CB 432	RIM = 376.54 INV IN = 369.100 INV OUT = 369.000
CB 433	RIM = 380.82 INV IN = 373.100 INV OUT = 373.000
CB 433A	RIM = 381.61 INV OUT = 373.440
CB 434	RIM = 371.66 INV IN = 365.400 INV OUT = 365.300
CB 435	RIM = 372.40 INV IN = 365.700 INV OUT = 365.600
CB 436	RIM = 374.70 INV IN = 366.500 INV OUT = 366.400
CB 436A	RIM = 374.89 INV OUT = 367.060
FES 400	RIM = 365.42 INV IN = 362.000
JB 407F	RIM = 388.75 INV IN = 381.100 INV OUT = 381.000
YI 404A	RIM = 372.42 INV OUT = 367.698
YI 407B	RIM = 372.15 INV IN = 368.800 INV OUT = 368.700
YI 407C	RIM = 372.97 INV IN = 370.050 INV OUT = 369.800
YI 407D	RIM = 379.16 INV IN = 374.400 INV OUT = 374.300
YI 407E	RIM = 383.14 INV IN = 379.100 INV OUT = 379.000
YI 407G	RIM = 385.62 INV OUT = 381.722
YI 422B	RIM = 382.60 INV OUT = 377.461

STRM - SCM 4 Out - Structure Table	
Structure Name	Details
FES-OS-4	RIM = 358.42 INV IN = 355.000
OS-4	RIM = 363.51 INV OUT = 357.000

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

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
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STIPULATION FOR REUSE

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MERRITT RESERVE
STORM STRUCTURE SCHEDULE
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:
STORM STRUCTURE SCHEDULE

SHEET NO.:
G-009

PROJECT NUMBER = CID-25-02

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

Z:\Jobs\23-0004 Merritt Property BRP\Dwg_Working Dwgs\Sheets\Construction Set\4_G-004 General Notes and Schedule.dwg

2025-09-03

STRM - SCM 5A - Structure Table	
Structure Name	Details
CB 503	RIM = 332.33 INV IN = 323.444 INV IN = 323.444 INV OUT = 323.210
CB 503A	RIM = 332.17 INV OUT = 323.462
CB 504	RIM = 334.39 INV IN = 324.095 INV IN = 327.103 INV OUT = 323.895
CB 504A	RIM = 334.78 INV IN = 327.443 INV OUT = 327.243
CB 505	RIM = 335.43 INV IN = 325.165 INV IN = 328.273 INV OUT = 325.065
CB 505A	RIM = 335.90 INV IN = 328.816 INV OUT = 328.616
CB 506	RIM = 336.49 INV IN = 326.420 INV IN = 327.220 INV OUT = 326.220
CB 507	RIM = 338.24 INV IN = 329.400 INV OUT = 328.900
CB 508	RIM = 340.87 INV IN = 332.700 INV OUT = 332.200
CB 509	RIM = 346.09 INV IN = 338.050 INV IN = 338.050 INV OUT = 337.800
CB 509A	RIM = 349.44 INV OUT = 341.172
CB 510	RIM = 359.96 INV IN = 352.000 INV OUT = 351.900
CB 510A	RIM = 364.48 INV OUT = 356.725
CB 511	RIM = 340.50 INV IN = 328.200 INV IN = 328.200 INV OUT = 328.000
CB 511A	RIM = 340.65 INV OUT = 330.755
CB 512	RIM = 345.64 INV IN = 334.800 INV IN = 335.475 INV OUT = 334.600
CB 512A	RIM = 347.02 INV IN = 337.692 INV OUT = 337.492
CB 513	RIM = 350.88 INV IN = 341.200 INV OUT = 341.100
CB 514	RIM = 358.26 INV IN = 349.800 INV OUT = 349.700
CB 514A	RIM = 362.51 INV IN = 351.692 INV OUT = 351.400
CB 514B	RIM = 363.27 INV IN = 352.138 INV OUT = 351.938
CB 515	RIM = 336.62 INV IN = 326.700 INV OUT = 326.600
CB 516	RIM = 337.61 INV IN = 327.300 INV OUT = 327.200
CB 517	RIM = 337.59 INV IN = 328.000 INV IN = 328.667 INV OUT = 327.500
CB 517A	RIM = 337.97 INV IN = 329.120 INV OUT = 328.920
CB 517B	RIM = 340.39 INV IN = 329.756 INV OUT = 329.756
CB 518	RIM = 341.32 INV IN = 331.500 INV OUT = 331.400
CB 519	RIM = 347.71 INV IN = 338.700 INV IN = 340.242 INV OUT = 338.200
CB 519A	RIM = 350.55 INV IN = 340.937 INV OUT = 340.737
CB 520	RIM = 352.80 INV IN = 344.100 INV IN = 344.100 INV OUT = 343.600
CB 521	RIM = 356.65 INV IN = 348.400 INV OUT = 348.300

STRM - SCM 5A - Structure Table	
Structure Name	Details
CB 522	RIM = 360.12 INV IN = 351.700 INV IN = 352.250 INV OUT = 351.500
CB 522A	RIM = 360.93 INV IN = 352.700 INV IN = 352.700 INV OUT = 352.500
CB 522E	RIM = 361.35 INV IN = 353.300 INV OUT = 353.200
CB 523	RIM = 364.04 INV IN = 355.500 INV IN = 355.800 INV OUT = 355.300
CB 524	RIM = 369.61 INV IN = 358.498 INV IN = 358.298 INV OUT = 357.715
CB 524A	RIM = 369.73 INV IN = 358.652 INV OUT = 358.452
CB 525	RIM = 373.20 INV IN = 365.100 INV IN = 365.475 INV OUT = 364.600
CB 525A	RIM = 375.87 INV IN = 368.794 INV OUT = 368.594
CB 526	RIM = 380.55 INV IN = 372.700 INV OUT = 372.600
CB 527	RIM = 382.80 INV IN = 374.700 INV OUT = 374.600
CB 528	RIM = 384.22 INV IN = 376.450 INV IN = 376.450 INV OUT = 376.200
CB 528A	RIM = 384.42 INV OUT = 376.590
CB 529	RIM = 384.98 INV IN = 377.200 INV OUT = 377.100
CB 530	RIM = 387.17 INV IN = 379.400 INV OUT = 379.300
CB 531	RIM = 389.10 INV IN = 381.700 INV IN = 381.700 INV OUT = 381.500
CB 531A	RIM = 389.41 INV OUT = 381.840
CB 532	RIM = 390.43 INV IN = 382.600 INV OUT = 382.500
CB 532A	RIM = 390.68 INV IN = 383.000 INV OUT = 382.900
CB 533	RIM = 390.30 INV OUT = 383.500
CB 534	RIM = 366.26 INV IN = 357.900 INV OUT = 357.800
CB 535	RIM = 367.80 INV IN = 360.050 INV IN = 360.050 INV OUT = 359.800
CB 535A	RIM = 368.24 INV OUT = 360.335
CB 536	RIM = 369.52 INV IN = 362.000 INV IN = 362.000 INV OUT = 361.900
CB 536A	RIM = 369.72 INV OUT = 362.281
CB 537	RIM = 374.11 INV IN = 366.500 INV OUT = 366.400
CB 537A	RIM = 375.18 INV OUT = 367.560
CB 538	RIM = 353.24 INV IN = 344.900 INV OUT = 344.400
CB 539	RIM = 355.24 INV IN = 347.450 INV IN = 347.450 INV OUT = 347.200
CB 539A	RIM = 355.45 INV OUT = 347.730
CB 541	RIM = 363.35 INV IN = 355.200 INV IN = 355.400 INV OUT = 355.000
CB 541A	RIM = 363.56 INV OUT = 355.479

STRM - SCM 5A - Structure Table	
Structure Name	Details
FES 500	RIM = 320.50 INV IN = 316.000
JB 500A	RIM = 333.98 INV IN = 316.950 INV OUT = 316.750
JB 524B	RIM = 369.61 INV IN = 358.989 INV OUT = 358.789
JB 524C	RIM = 367.78 INV IN = 359.936 INV OUT = 359.353
JB 524E	RIM = 367.14 INV IN = 362.042 INV OUT = 361.842
JB 540	RIM = 360.64 INV IN = 352.500 INV OUT = 352.400
JB 541B	RIM = 364.95 INV IN = 356.084 INV OUT = 355.884
YI 500B	RIM = 326.82 INV IN = 318.300 INV OUT = 318.185
YI 501	RIM = 339.45 INV IN = 322.100 INV OUT = 321.600
YI 502	RIM = 340.36 INV IN = 322.660 INV IN = 324.460 INV OUT = 322.464
YI 504B	RIM = 331.40 INV OUT = 327.742
YI 505B	RIM = 334.04 INV OUT = 329.451
YI 512B	RIM = 346.30 INV OUT = 339.948
YI 514C	RIM = 358.20 INV OUT = 353.350
YI 517C	RIM = 338.51 INV IN = 332.049 INV OUT = 331.000
YI 517D	RIM = 343.66 INV IN = 337.100 INV OUT = 336.900
YI 517E	RIM = 347.52 INV IN = 341.068 INV OUT = 340.868
YI 517F	RIM = 352.08 INV IN = 346.130 INV OUT = 345.547
YI 517G	RIM = 357.37 INV IN = 351.473 INV OUT = 351.273
YI 517H	RIM = 362.32 INV IN = 356.427 INV OUT = 356.227
YI 517I	RIM = 372.00 INV IN = 366.676 INV OUT = 366.093
YI 517J	RIM = 374.67 INV IN = 368.648 INV OUT = 368.156
YI 517K	RIM = 374.75 INV IN = 369.217 INV OUT = 369.017
YI 517L	RIM = 374.42 INV OUT = 369.576
YI 519B	RIM = 348.88 INV OUT = 342.238
YI 522B	RIM = 355.81 INV IN = 353.250 INV OUT = 353.150
YI 522C	RIM = 358.39 INV IN = 353.800 INV OUT = 353.700
YI 522D	RIM = 362.67 INV OUT = 358.229
YI 522F	RIM = 367.82 INV IN = 360.600 INV OUT = 360.500
YI 522G	RIM = 368.84 INV IN = 362.900 INV OUT = 362.800
YI 522H	RIM = 369.18 INV IN = 364.100 INV OUT = 364.000

STRM - SCM 5A - Structure Table	
Structure Name	Details
YI 522I	RIM = 369.47 INV IN = 364.700 INV OUT = 364.600
YI 522J	RIM = 371.89 INV OUT = 367.446
YI 524D	RIM = 365.69 INV IN = 360.438 INV OUT = 360.238
YI 524F	RIM = 368.96 INV IN = 363.959 INV OUT = 363.668
YI 524G	RIM = 372.10 INV IN = 366.934 INV OUT = 366.734
YI 524H	RIM = 378.08 INV IN = 370.974 INV OUT = 370.774
YI 524I	RIM = 377.88 INV IN = 371.460 INV OUT = 371.260
YI 524J	RIM = 377.88 INV IN = 371.946 INV OUT = 371.746
YI 524K	RIM = 377.07 INV OUT = 372.220
YI 525B	RIM = 382.15 INV IN = 375.780 INV OUT = 375.580
YI 525D	RIM = 385.23 INV IN = 380.101 INV OUT = 379.901
YI 525G	RIM = 387.38 INV OUT = 382.442
YI 541C	RIM = 364.47 INV OUT = 357.265

STRM - SCM 5A Out - Structure Table	
Structure Name	Details
FES-OS-5A	RIM = 309.56 INV IN = 307.229
OS-5A	RIM = 313.49 INV OUT = 309.087

STRM - SCM 6A - Structure Table	
Structure Name	Details
CB 603	RIM = 321.19 INV IN = 303.300 INV OUT = 303.100
CB 604	RIM = 326.27 INV IN = 308.700 INV IN = 308.700 INV OUT = 308.500
CB 604A	RIM = 327.58 INV OUT = 309.489
CB 605	RIM = 332.97 INV IN = 318.400 INV OUT = 318.200
CB 605A	RIM = 333.02 INV OUT = 318.680
FES 600	RIM = 283.52 INV IN = 282.000
JB 602	RIM = 303.13 INV IN = 291.200 INV OUT = 291.000
YI 601	RIM = 296.41 INV IN = 286.200 INV OUT = 286.000

STRM - SCM 5C - Structure Table	
Structure Name	Details
CB 562	RIM = 312.97 INV IN = 304.000 INV IN = 304.500 INV OUT = 303.500
CB 562A	RIM = 310.97 INV OUT = 306.000
CB 563	RIM = 317.91 INV IN = 311.600 INV OUT = 311.500
CB 564	RIM = 325.97 INV IN = 319.100 INV OUT = 319.000
CB 565	RIM = 339.97 INV IN = 332.300 INV OUT = 332.200
CB 566	RIM = 357.51 INV IN = 352.000 INV OUT = 351.500
CB 567	RIM = 367.15 INV IN = 358.250 INV OUT = 358.000
CB 567B	RIM = 367.66 INV OUT = 362.498
CB 568	RIM = 369.70 INV IN = 361.500 INV OUT = 361.400
CB 569	RIM = 372.27 INV IN = 365.600 INV OUT = 365.500
CB 570	RIM = 380.46 INV IN = 372.500 INV OUT = 372.400
CB 571	RIM = 386.83 INV IN = 374.300 INV OUT = 374.200
CB 572	RIM = 386.59 INV IN = 376.800 INV OUT = 376.700
CB 572A	RIM = 385.12 INV OUT = 377.300
FES 560	RIM = 295.88 INV IN = 293.000
JB 561	RIM = 306.95 INV IN = 300.400 INV OUT = 296.700
JB 567A	RIM = 368.11 INV IN = 360.400 INV IN = 360.400 INV OUT = 360.200

STRM - SCM 5C Out - Structure Table	
Structure Name	Details
FES-OS-5C	RIM = 291.79 INV IN = 290.000
OS-5C	RIM = 295.47 INV OUT = 291.000

STRM - SCM 6A Out - Structure Table	
Structure Name	Details
FES-OS-6A	RIM = 274.29 INV IN = 273.000
OS-6A	RIM = 285.51 INV OUT = 276.500

STRM - SCM 6B - Structure Table	
Structure Name	Details
CB 612	RIM = 318.02 INV IN = 301.280 INV OUT = 301.000
CB 613	RIM = 315.00 INV IN = 301.900 INV IN = 301.910 INV OUT = 301.700
CB 613A	RIM = 310.31 INV IN = 302.400 INV OUT = 302.200
CB 613B	RIM = 310.04 INV OUT = 302.640
CB 614	RIM = 319.55 INV IN = 306.250 INV OUT = 306.050
CB 615	RIM = 324.12 INV IN = 311.000 INV IN = 311.000 INV OUT = 310.800
CB 615A	RIM = 329.77 INV IN = 319.000 INV OUT = 318.800
CB 615B	RIM = 329.77 INV OUT = 319.280
CB 616	RIM = 325.19 INV IN = 314.000 INV IN = 315.786 INV OUT = 313.800
CB 617	RIM = 331.02 INV IN = 319.600 INV IN = 319.600 INV OUT = 319.400
CB 617A	RIM = 331.00 INV OUT = 323.000
CB 618	RIM = 336.57 INV IN = 327.200 INV IN = 327.200 INV OUT = 327.000
CB 618A	RIM = 340.36 INV IN = 331.800 INV OUT = 331.600
CB 618B	RIM = 340.43 INV OUT = 331.990
CB 619	RIM = 337.18 INV IN = 328.045 INV OUT = 327.845
CB 620	RIM = 334.55 INV IN = 328.677 INV OUT = 328.477
CB 621	RIM = 333.35 INV IN = 329.169 INV OUT = 328.969
CB 622	RIM = 337.00 INV IN = 329.913 INV OUT = 329.713
CB 623	RIM = 336.78 INV IN = 330.478 INV OUT = 330.186
CB 624	RIM = 344.51 INV IN = 335.900 INV OUT = 335.700
CB 625	RIM = 345.78 INV IN = 338.200 INV IN = 338.200 INV OUT = 338.000
CB 625A	RIM = 345.78 INV OUT = 338.000
CB 626	RIM = 351.50 INV IN = 344.500 INV OUT = 344.300
CB 627	RIM = 351.96 INV IN = 345.100 INV OUT = 344.900
CB 628	RIM = 353.78 INV IN = 346.500 INV OUT = 346.260
CB 628A	RIM = 353.75 INV OUT = 346.670
CB 633	RIM = 313.86 INV IN = 302.900 INV OUT = 302.700
CB 634	RIM = 311.00 INV OUT = 305.000
FES 610	RIM = 292.33 INV IN = 290.000
FES 630	RIM = 290.79 INV IN = 289.000
JB 611	RIM = 311.92 INV IN = 292.000 INV OUT = 291.500
JB 631	RIM = 310.05 INV IN = 290.200 INV OUT = 290.000
JB 632	RIM = 315.26 INV IN = 301.200 INV OUT = 301.000

STRM - SCM 6B - Structure Table	
Structure Name	Details
YI 616A	RIM = 322.28 INV OUT = 316.786

STRM - SCM 6B Out - Structure Table	
Structure Name	Details
FES-OS-6B	RIM = 283.79 INV IN = 282.250
OS-6B	RIM = 292.40 INV OUT = 284.000

STRM - SCM 7 - Structure Table	
Structure Name	Details
CB 702A	RIM = 335.52 INV OUT = 328.322
CB 703	RIM = 339.11 INV IN = 330.700 INV IN = 330.700 INV OUT = 330.500
CB 703A	RIM = 339.93 INV OUT = 330.915
CB 704	RIM = 345.79 INV OUT = 337.441
CB 752	RIM = 349.87 INV IN = 344.200 INV OUT = 344.000
FES 700	RIM = 324.83 INV IN = 322.500
FES 750	RIM = 324.83 INV IN = 322.500
JB 701	RIM = 330.94 INV IN = 322.950 INV OUT = 322.754
JB 702	RIM = 337.93 INV IN = 327.750 INV IN = 327.750 INV OUT = 327.500
JB 751	RIM = 342.42 INV IN = 328.700 INV OUT = 328.500
JB 753	RIM = 350.46 INV OUT = 345.020

STRM - SCM 7 Out - Structure Table	
Structure Name	Details
FES-OS-7	RIM = 315.47 INV IN = 313.681
OS-7	RIM = 326.42 INV OUT = 318.000

STRM - Offsite Storm - Structure Table	
Structure Name	Details
CB-1001	RIM = 384.94 INV IN = 382.400 INV OUT = 382.212
CB-1002	RIM = 385.84 INV IN = 383.300 INV OUT = 383.134
CB-1003	RIM = 391.14 INV IN = 383.900 INV OUT = 383.721
CB-1004	RIM = 391.14 INV IN = 384.900 INV OUT = 384.717
CB-1005	RIM = 388.89 INV IN = 386.350 INV OUT = 386.140
CB-1006	RIM = 391.14 INV IN = 387.200 INV OUT = 387.027
CB-1010	RIM = 385.29 INV IN = 382.750 INV OUT = 382.523
CB-1011	RIM = 391.14 INV OUT = 382.956
JB-1000	RIM = 384.54 INV IN = 382.000 INV IN = 382.000 INV OUT = 381.792
YI-1007	RIM = 391.14 INV OUT = 387.458

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Raleigh, NC 27607
919-469-1101

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

PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEE

NOT TO BE USED FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
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MERRITT RESERVE

STORM STRUCTURE SCHEDULE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

STORM STRUCTURE SCHEDULE

SHEET NO.: **G-010**

PROJECT NUMBER = CID-25-02

North Carolina 811 811.com
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
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Z:\Jobs\23-0004 Merritt Property (BRO)\dwg_Working Dwgs\Sheets\Construction Set\4. G-004 General Notes and Schedule.dwg

2025-09-03

SSWR - South - Structure Table	
Structure Name	Details
EX. 1500	RIM = 345.00 INV IN = 339.660
EX. MH 39	RIM = 274.53 INV IN = 262.590
MH 100	RIM = 274.01 INV IN = 263.250 INV IN = 263.250 INV OUT = 263.050
MH 101	RIM = 275.54 INV IN = 263.780 INV OUT = 263.580
MH 102	RIM = 273.63 INV IN = 264.330 INV OUT = 264.130
MH 103	RIM = 274.33 INV IN = 264.980 INV OUT = 264.780
MH 104	RIM = 279.26 INV IN = 265.620 INV IN = 265.620 INV OUT = 265.420
MH 105	RIM = 284.58 INV IN = 266.250 INV OUT = 266.050
MH 106	RIM = 288.33 INV IN = 266.880 INV OUT = 266.680
MH 107	RIM = 282.55 INV IN = 275.000 INV IN = 273.517 INV OUT = 273.120
MH 113	RIM = 286.76 INV IN = 276.357 INV OUT = 276.056
MH 115	RIM = 289.45 INV IN = 282.025 INV OUT = 281.800
MH 116	RIM = 291.68 INV IN = 283.895 INV OUT = 283.695
MH 118	RIM = 306.05 INV IN = 287.832 INV OUT = 287.800
MH 119	RIM = 309.90 INV IN = 297.000 INV OUT = 294.500
MH 120	RIM = 338.47 INV IN = 312.600 INV IN = 313.180 INV OUT = 310.103
MH 121	RIM = 333.84 INV IN = 321.305 INV OUT = 318.800
MH 122	RIM = 336.97 INV IN = 324.585 INV IN = 324.700 INV OUT = 324.300
MH 123	RIM = 339.82 INV IN = 326.227 INV OUT = 326.000
MH 124	RIM = 353.19 INV IN = 343.343 INV OUT = 341.000
MH 125	RIM = 373.23 INV IN = 355.450 INV OUT = 355.250
MH 126	RIM = 374.55 INV IN = 357.618 INV OUT = 357.400
MH 127	RIM = 372.60 INV IN = 358.687 INV IN = 361.000 INV OUT = 358.500
MH 128	RIM = 371.97 INV IN = 360.944 INV OUT = 360.744
MH 129	RIM = 373.11 INV IN = 362.754 INV OUT = 362.500
MH 130	RIM = 384.76 INV IN = 375.736 INV OUT = 374.236
MH 131	RIM = 390.18 INV OUT = 380.000
MH 140	RIM = 304.45 INV IN = 278.894 INV OUT = 278.600
MH 141	RIM = 302.69 INV IN = 296.400 INV OUT = 296.200
MH 142	RIM = 338.20 INV IN = 309.421 INV OUT = 309.200
MH 143	RIM = 336.35 INV IN = 315.412 INV OUT = 315.200
MH 144	RIM = 340.08 INV IN = 323.100 INV OUT = 322.900

SSWR - South - Structure Table	
Structure Name	Details
MH 145	RIM = 345.04 INV IN = 331.729 INV OUT = 331.500
MH 146	RIM = 350.04 INV OUT = 342.000
MH 151	RIM = 345.62 INV IN = 340.683 INV OUT = 340.483
MH 152	RIM = 351.51 INV IN = 342.478 INV OUT = 342.278
MH 153	RIM = 354.92 INV OUT = 344.333
MH 160	RIM = 283.77 INV IN = 271.800 INV OUT = 269.300
MH 161	RIM = 300.89 INV IN = 281.400 INV OUT = 278.900
MH 162	RIM = 321.60 INV IN = 293.030 INV OUT = 290.530
MH 163	RIM = 322.84 INV IN = 298.023 INV OUT = 295.523
MH 164	RIM = 325.94 INV IN = 304.979 INV OUT = 302.479
MH 165	RIM = 336.34 INV OUT = 324.000
MH 170	RIM = 308.72 INV IN = 294.000 INV OUT = 292.013
MH 170A	RIM = 309.12 INV IN = 287.000 INV OUT = 285.070
MH 171 (INSIDE DROP MH)	RIM = 324.58 INV IN = 315.185 INV IN = 305.000 INV OUT = 302.826
MH 172	RIM = 331.53 INV IN = 316.800 INV OUT = 316.600
MH 173	RIM = 336.50 INV OUT = 326.700
MH 174	RIM = 329.74 INV OUT = 319.646
MH 180	RIM = 342.14 INV IN = 319.957 INV OUT = 317.928
MH 181	RIM = 357.74 INV IN = 340.331 INV OUT = 338.423
MH 182	RIM = 366.50 INV IN = 356.179 INV IN = 356.000 INV OUT = 355.137
MH 183	RIM = 368.01 INV OUT = 361.619
MH 184	RIM = 366.87 INV OUT = 361.000
MH 190	RIM = 339.76 INV IN = 326.000 INV OUT = 325.180
MH 191	RIM = 344.91 INV IN = 330.573 INV OUT = 330.363
MH 192	RIM = 350.41 INV IN = 335.100 INV OUT = 335.000
MH 193	RIM = 354.52 INV IN = 338.700 INV IN = 338.700 INV OUT = 338.454
MH 194	RIM = 367.94 INV IN = 355.600 INV IN = 353.500 INV OUT = 353.200
MH 195	RIM = 380.00 INV IN = 369.000 INV OUT = 368.000
MH 196	RIM = 384.28 INV IN = 373.800 INV IN = 375.000 INV OUT = 373.500
MH 197	RIM = 385.49 INV OUT = 377.000
MH 200	RIM = 358.03 INV IN = 343.000 INV OUT = 341.600
MH 201	RIM = 363.06 INV IN = 346.750 INV OUT = 346.547

SSWR - South - Structure Table	
Structure Name	Details
MH 202	RIM = 364.45 INV IN = 350.752 INV IN = 349.438 INV OUT = 349.200
MH 203	RIM = 366.98 INV OUT = 353.085
MH 204	RIM = 362.91 INV OUT = 350.500
MH 210	RIM = 369.39 INV IN = 358.000 INV OUT = 357.800
MH 211	RIM = 372.31 INV IN = 362.183 INV OUT = 361.900
MH 212	RIM = 379.04 INV OUT = 368.500
MH 220	RIM = 385.25 INV IN = 375.200 INV OUT = 375.000
MH 221	RIM = 387.29 INV IN = 377.800 INV OUT = 377.600
MH 222	RIM = 391.05 INV IN = 380.600 INV OUT = 380.400
MH 223	RIM = 390.33 INV OUT = 383.000
MH 230	RIM = 375.87 INV IN = 364.301 INV OUT = 364.100
MH 230A	RIM = 373.69 INV IN = 362.845 INV OUT = 362.600
MH 231	RIM = 380.50 INV IN = 369.123 INV IN = 369.025 INV OUT = 368.800
MH 232	RIM = 381.52 INV IN = 370.811 INV IN = 370.502 INV OUT = 370.300
MH 233	RIM = 387.30 INV OUT = 375.000
MH 234	RIM = 383.58 INV IN = 373.390 INV OUT = 373.190
MH 235	RIM = 386.53 INV OUT = 376.500
MH 236	RIM = 387.93 INV IN = 372.489 INV OUT = 372.289
MH 237	RIM = 393.03 INV OUT = 378.000

SSWR - North - Structure Table	
Structure Name	Details
MH 571	RIM = 384.02 INV OUT = 373.000
MH 572	RIM = 378.24 INV IN = 369.000 INV OUT = 367.100
MH 573	RIM = 379.52 INV OUT = 373.000
MH503A	RIM = 380.82 INV IN = 368.200 INV OUT = 368.000

SSWR - North - Structure Table	
Structure Name	Details
EX. MH22	RIM = 361.81 INV IN = 348.000
MH 501	RIM = 366.90 INV IN = 357.482 INV IN = 355.200 INV IN = 355.459 INV OUT = 355.000
MH 502	RIM = 370.99 INV IN = 358.000 INV OUT = 357.800
MH 503	RIM = 376.15 INV IN = 363.200 INV OUT = 362.000
MH 504	RIM = 391.98 INV IN = 375.200 INV IN = 375.200 INV OUT = 375.000
MH 505	RIM = 394.83 INV IN = 388.085 INV OUT = 387.800
MH 506	RIM = 395.35 INV OUT = 389.000
MH 508	RIM = 391.57 INV OUT = 381.576
MH 520	RIM = 369.14 INV IN = 362.000 INV OUT = 361.800
MH 521	RIM = 372.19 INV IN = 364.837 INV OUT = 364.600
MH 522	RIM = 389.91 INV IN = 370.827 INV OUT = 370.600
MH 523	RIM = 387.96 INV IN = 372.454 INV OUT = 372.200
MH 524	RIM = 386.60 INV IN = 374.813 INV OUT = 374.600
MH 525	RIM = 388.05 INV OUT = 379.820
MH 530	RIM = 366.65 INV OUT = 358.800
MH 540	RIM = 357.62 INV IN = 351.420
MH 541	RIM = 363.45 INV IN = 353.200 INV IN = 353.200 INV IN = 354.826 INV OUT = 353.000
MH 542	RIM = 365.91 INV IN = 355.675 INV OUT = 355.400
MH 543	RIM = 377.46 INV IN = 369.000 INV OUT = 366.500
MH 544	RIM = 379.87 INV OUT = 373.000
MH 550	RIM = 359.90 INV IN = 354.200 INV OUT = 354.002
MH 551	RIM = 360.68 INV IN = 354.800 INV OUT = 354.596
MH 552	RIM = 361.71 INV IN = 355.427 INV OUT = 355.227
MH 553	RIM = 362.78 INV IN = 356.100 INV OUT = 355.857
MH 554	RIM = 365.80 INV OUT = 359.000
MH 560	RIM = 365.21 INV IN = 354.700 INV IN = 355.000 INV IN = 354.716 INV OUT = 354.516
MH 561	RIM = 364.20 INV IN = 355.400 INV OUT = 355.191
MH 561A	RIM = 363.63 INV OUT = 355.676
MH 564	RIM = 364.34 INV OUT = 356.836
MH 565	RIM = 365.15 INV IN = 356.441 INV OUT = 356.241
MH 567	RIM = 365.79 INV IN = 355.866 INV OUT = 355.666
MH 568	RIM = 365.58 INV IN = 355.335 INV OUT = 355.135
MH 570	RIM = 377.66 INV IN = 363.421 INV IN = 363.700 INV OUT = 360.900

SSWR - South - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
MH 100	EX. MH 39	12"	PVC	213.00	0.22%	262.59	263.05
MH 101	MH 100	12"	PVC	163.39	0.20%	263.25	263.58
MH 102	MH 101	12"	PVC	159.37	0.22%	263.78	264.13
MH 103	MH 102	12"	PVC	202.96	0.22%	264.33	264.78
MH 104	MH 103	12"	PVC	199.73	0.22%	264.98	265.42
MH 105	MH 104	12"	PVC	194.25	0.22%	265.62	266.05
MH 106	MH 105	12"	PVC	197.42	0.22%	266.25	266.68
MH 107	MH 106	8"	PVC	229.63	2.72%	266.88	273.12
MH 107	MH 113	8"	PVC	179.55	1.41%	276.06	273.52
MH 115	MH 113	8"	PVC	283.15	1.92%	276.36	281.80
MH 116	MH 115	8"	PVC	85.40	1.96%	282.02	283.70
MH 118	MH 116	8"	PVC	260.36	1.50%	283.89	287.80
MH 119	MH 118	8"	PVC	117.48	5.68%	287.83	294.50
MH 119	MH 120	8"	PVC	137.93	9.50%	310.10	297.00
MH 121	MH 120	8"	PVC	74.47	8.32%	312.60	318.80
MH 122	MH 121	8"	PVC	299.52	1.00%	321.30	324.30
MH 123	MH 122	8"	PVC	141.51	1.00%	324.58	326.00
MH 124	MH 123	8"	PVC	295.47	5.00%	326.23	341.00
MH 125	MH 124	8"	PVC	297.66	4.00%	343.34	355.25
MH 126	MH 125	8"	PVC	390.00	0.50%	355.45	357.40
MH 127	MH 230A	8"	PVC	70.09	2.28%	362.60	361.00
MH 127	MH 126	8"	PVC	176.40	0.50%	357.62	358.50
MH 128	MH 127	8"	PVC	102.83	2.00%	358.69	360.74
MH 129	MH 128	8"	PVC	77.79	2.00%	360.94	362.50
MH 130	MH 129	8"	PVC	287.05	4.00%	362.75	374.24
MH 131	MH 130	8"	PVC	106.61	4.00%	375.74	380.00
MH 140	MH 100	8"	PVC	242.12	6.34%	263.25	278.60
MH 141	MH 140	8"	PVC	294.96	5.87%	278.89	296.20
MH 142	MH 141	8"	PVC	181.32	7.06%	296.40	309.20
MH 143	MH 142	8"	PVC	67.98	8.50%	309.42	315.20
MH 143	MH 144	8"	PVC	88.10	8.50%	322.90	315.41
MH 145	MH 144	8"	PVC	98.22	8.55%	323.10	331.50
MH 146	MH 145	8"	PVC	120.83	8.50%	331.73	342.00
MH 151	EX. 1500	8"	PVC	164.66	0.50%	339.66	340.48
MH 152	MH 151	8"	PVC	318.98	0.50%	340.68	342.28
MH 153	MH 152	8"	PVC	190.19	0.98%	342.48	344.33
MH 160	MH 104	8"	PVC	49.76	7.40%	265.62	269.30
MH 161	MH 160	8"	PVC	111.13	6.39%	271.80	278.90
MH 162	MH 161	8"	PVC	137.98	6.62%	281.40	290.53
MH 163	MH 162	8"	PVC	53.00	4.70%	293.03	295.52
MH 164	MH 163	8"	PVC	74.19	6.01%	298.02	302.48
MH 165	MH 164	8"	PVC	244.68	7.77%	304.98	324.00
MH 170	MH 170A	8"	PVC	52.77	9.50%	287.00	292.01
MH 170A	MH 107	8"	PVC	106.00	9.50%	275.00	285.07
MH 171 (INSIDE DROP MH)	MH 170	8"	PVC	147.10	6.00%	294.00	302.83
MH 172	MH 171 (INSIDE DROP MH)	8"	PVC	258.14	4.49%	305.00	316.60
MH 173	MH 172	8"	PVC	153.54	6.45%	316.80	326.70
MH 174	MH 171 (INSIDE DROP MH)	8"	PVC	46.95	9.50%	315.19	319.65
MH 180	MH 120	8"	PVC	45.74	10.38%	313.18	317.93
MH 181	MH 180	8"	PVC	194.01	9.52%	319.96	338.42
MH 182	MH 181	8"	PVC	155.85	9.50%	340.33	355.14
MH 183	MH 182	8"	PVC	95.26	5.90%	356.00	361.62
MH 184	MH 182	8"	PVC	50.74	9.50%	356.18	361.00
MH 190	MH 122	8"	PVC	95.95	0.50%	324.70	325.18
MH 191	MH 190	8"	PVC	102.49	4.26%	326.00	330.36
MH 192	MH 191	8"	PVC	112.85	3.92%	330.57	335.00
MH 193	MH 192	8"	PVC	111.79	3.00%	335.10	338.45
MH 194	MH 193	8"	PVC	275.50	5.26%	338.70	353.20
MH 195	MH 194	8"	PVC	226.79	6.39%	353.50	368.00
MH 196	MH 195	8"	PVC	112.00	4.02%	369.00	373.50
MH 197	MH 196	8"	PVC	55.27	3.62%	375.00	377.00
MH 200	MH 193	8"	PVC	106.59	2.72%	338.70	341.60
MH 201	MH 200	8"	PVC	118.24	3.00%	343.00	346.55
MH 201	MH 202	8"	PVC	235.76	1.04%	349.20	346.75
MH 203	MH 202	8"	PVC	185.58	1.26%	350.75	353.09

SSWR - South - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
MH 204	MH 202	8"	PVC	212.32	0.50%	349.44	350.50
MH 210	MH 211	8"	PVC	140.50	2.78%	361.90	358.00
MH 210	MH 194	8"	PVC	162.27	1.36%	355.60	357.80
MH 211	MH 212	8"	PVC	216.69	2.92%	368.50	362.18
MH 220	MH 196	8"	PVC	162.77	0.74%	373.80	375.00
MH 221	MH 220	8"	PVC	184.41	1.30%	375.20	377.60
MH 222	MH 221	8"	PVC	251.22	1.03%	377.80	380.40
MH 223	MH 222	8"	PVC	199.90	1.20%	380.60	383.00
MH 230A	MH 230	8"	PVC	62.74	2.00%	364.10	362.85
MH 231	MH 230	8"	PVC	195.61	2.30%	364.30	368.80
MH 232	MH 231	8"	PVC	85.00	1.50%	369.02	370.30
MH 233	MH 232	8"	PVC	187.40	2.40%	370.50	375.00
MH 234	MH 231	8"	PVC	380.65	1.07%	369.12	373.19
MH 235	MH 234	8"	PVC	248.76	1.25%	373.39	376.50
MH 236	MH 232	8"	PVC	295.53	0.50%	370.81	372.29
MH 237	MH 236	8"	PVC	244.93	2.25%	372.49	378.00

SSWR - North - PIPE SUMMARY

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE SIZE	PIPE MATERIAL	LENGTH	SLOPE	DOWNSTREAM INVERT (FT)	UPSTREAM INVERT (FT)
		8"	PVC	0.00	0.00%	379.00	377.00
MH 501	EX. MH22	8"	PVC	151.56	4.62%	348.00	355.00
MH 502	MH 501	8"	PVC	109.80	2.37%	355.20	357.80
MH 503	MH 502	8"	PVC	100.26	3.99%	358.00	362.00
MH 504	MH503A	8"	PVC	271.28	2.51%	368.20	375.00
MH 505	MH 504	8"	PVC	355.53	3.54%	375.20	387.80
MH 506	MH 505	8"	PVC	183.08	0.50%	388.08	389.00
MH 508	MH 504	8"	PVC	216.38	2.95%	375.20	381.58
MH 520	MH 501	8"	PVC	191.90	2.25%	357.48	361.80
MH 521	MH 520	8"	PVC	76.91	3.38%	362.00	364.60
MH 522	MH 521	8"	PVC	384.18	1.50%	364.84	370.60
MH 523	MH 522	8"	PVC	274.55	0.50%	370.83	372.20
MH 524	MH 523	8"	PVC	286.14	0.75%	372.45	374.60
MH 525	MH 524	8"	PVC	166.91	3.00%	374.81	379.82
MH 530	MH 501	8"	PVC	148.49	2.25%	355.46	358.80
MH 541	MH 540	8"	PVC	306.99	0.51%	351.42	353.00
MH 542	MH 541	8"	PVC	114.86	0.50%	354.83	355.40
MH 543	MH 542	8"	PVC	366.43	2.95%	355.68	366.50
MH 544	MH 543	8"	PVC	105.14	3.80%	369.00	373.00
MH 550	MH 541	8"	PVC	160.41	0.50%	353.20	354.00
MH 551	MH 550	8"	PVC	79.19	0.50%	354.20	354.60
MH 552	MH 551	8"	PVC	85.45	0.50%	354.80	355.23
MH 553	MH 552	8"	PVC	86.06	0.50%	355.43	355.86
MH 554	MH 553	8"	PVC	247.00	1.17%	356.10	359.00
MH 560	MH 561	8"	PVC	98.28	0.50%	355.19	354.70
MH 560	MH 541	8"	PVC	263.13	0.50%	353.20	354.52
MH 561	MH 561A	8"	PVC	55.22	0.50%	355.68	355.40
MH 565	MH 564	8"	PVC	78.94	0.50%	356.84	356.44
MH 567	MH 565	8"	PVC	74.92	0.50%	356.24	355.87
MH 567	MH 568	8"	PVC	66.19	0.50%	355.34	355.67
MH 568	MH 560	8"	PVC	83.81	0.50%	354.72	355.14
MH 570	MH 560	8"	PVC	276.58	2.13%	355.00	360.90
MH 571	MH 570	8"	PVC	112.69	8.50%	363.42	373.00
MH 572	MH 570	8"	PVC	113.95	2.98%	363.70	367.10
MH 573	MH 572	8"	PVC	165.37	2.42%	369.00	373.00
MH503A	MH 503	8"	PVC	90.96	5.28%	363.20	368.00

PROJECT NUMBER = CID-25-02

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

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3861

PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEE

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE

SEWER PIPE AND STRUCTURE SCHEDULE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

SEWER PIPE AND STRUCTURE SCHEDULE

SHEET NO.: **G-011**

North Carolina 811 811 it's the law

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

Z:\Jobs\23-0004 Merrit Property BRD\dwg_Working Dwgs\Sheets\Construction Set\4_G-004 General Notes and Schedule.dwg

2025-09-03

LINE TABLE		
LINE	BEARING	DISTANCE
L–1	S 06°55'13" E	384.56'
L–2	S 07°12'17" E	100.22'
L–3	S 07°09'39" E	100.17'
L–4	S 07°53'34" E	100.14'
L–5	S 08°05'58" E	226.00'
L–6	S 07°02'42" E	106.15'
L–7	N 10°18'03" E	103.42'
L–8	N 02°49'12" W	233.20'
L–9	S 86°15'26" W	1900.36'
L–10	S 86°15'26" W	6.75'
L–11	S 02°38'01" W	41.66'
L–12	S 86°36'19" W	80.15'
L–13	N 35°30'42" W	25.71'
L–14	N 18°40'09" W	18.02'
L–15	N 16°33'18" E	29.75'
L–16	S 65°55'14" W	41.93'
L–17	N 34°33'28" W	67.60'
L–18	N 63°56'22" W	58.64'
L–19	S 12°10'41" E	28.75'
L–20	S 62°16'28" W	40.10'
L–21	N 48°52'56" W	41.03'
L–22	S 66°34'20" W	183.88'
L–23	S 42°14'08" W	280.13'
L–24	S 10°05'45" E	34.24'
L–25	S 66°32'41" W	69.18'
L–26	S 67°17'00" W	140.16'
L–27	S 72°23'53" W	370.65'
L–28	S 89°38'01" W	175.48'
L–29	N 03°38'40" W	93.43'
L–30	S 87°26'29" W	32.39'
L–31	N 10°58'10" E	301.47'
L–32	N 38°48'12" W	335.62'
L–33	N 22°18'41" W	67.82'
L–34	N 89°45'22" E	683.75'

LEGEND:

EIP – EXISTING IRON PIPE
EIB – EXISTING IRON BAR
BEIP – BENT IRON PIPE
BEIB – BENT IRON BAR
CM – CONCRETE MONUMENT
EPK – EXISTING PK NAIL
SPK – SET PK NAIL
NIP – NEW IRON PIPE SET
R/W – RIGHT OF WAY
CATV – CABLE TV BOX
EB – ELECTRIC BOX
TEL – TELEPHONE PEDESTAL
PP – POWER POLE
OHL – OVERHEAD LINE
LP – LIGHT POLE
WM – WATER METER
WV – WATER VALVE
CO – SEWER CLEAN–OUT
CC – CONCRETE
CB – CATCH BASIN
MH – MANHOLE
FH – FIRE HYDRANT
GP – GAS POST
FOM – FIBER OPTIC MARKER
SFD – STORY FRAME DWELLING

BROOKFIELD HOLDINGS(THE POINTE), LLC
D.B. 18774 PAGE 748
B.M. 2021 PAGE 1745
PIN# 1768.10-25-46.98
LAND USE: ACRES GREATER THAN 10 WITH HOUSE
ZONING: R&PUD

XISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT D.B 12486 PG. 1171 B.B 2008 PG. 480

RIM:354.78' IN:345.79' OUT:345.69'

EX MH 25 RIM:361.61' IN:353.38' OUT:353.18'

EX MH 26 RIM:368.86' IN:359.95' OUT:359.80'

NEUSE RIPARIAN BUFFER (ZONE 1)

EX MH 17 RIM:345.65' IN:337.68' OUT:337.58'

RIM:341.39' IN:334.46' OUT:334.26'

EX MH 18 RIM:347.43' IN(N):340.10' IN(E):340.10' OUT:340.00'

EX MH 19 RIM:355.71' IN:342.55' OUT:342.30'

EX MH 20 RIM:351.32' IN:343.39' OUT:343.26'

EX MH 21 RIM:356.60' IN:346.89' OUT:346.69'

EX MH 22 RIM:359.79' IN:348.00' OUT:347.80'

EX MH 23 RIM:359.46' IN:348.53' OUT:348.33'

EX MH 24 RIM:358.69' IN:349.52' OUT:349.32'

EX MH 27 RIM:370.95 IN:362.29' OUT:362.19'

EX MH 28 RIM:372.52' OUT:363.91'

EXISTING 50' GAS EASEMENT D.B. 16741 P.G. 120

NEUSE RIPARIAN BUFFER (ZONE 2)

WETLAND (TYP)

FENCE CROSSES PROPERTY LINE AT THIS POINT

N/F
ASHTON RALEIGH RESIDENTIAL, LLC
D.B. 17720 PAGE 1663
B.M. 2021 PAGE 1745
PIN# 1768.03-34-7557
LAND USE: VACANT
ZONING: R&PUD

N/F
ASHTON RALEIGH RESIDENTIAL, LLC
D.B. 17720 PAGE 1663
B.M. 2021 PAGE 1746
PIN# 1768.03-13-1851
LAND USE: VACANT
ZONING: R&PUD

FENCE CROSSES PROPERTY LINE AT THIS POINT

LEAN-TO

BARN (269 SF)

BARN (535 SF)

BARN (733 SF)

OLD WELL

WELL HOUSE (34 SF)

PUMP HOUSE WELL

ROCK PILE

SHED (85 SF)

BARN (479 SF)

1 SFD (1911 SF)

5.6'x9.5' GRAVE SITE

SHEDS (2) (236 SF)

SATELLITE DISH

SHED (53 SF)

MOBILE HOME (890 SF)

SHED (102 SF)

MOBILE HOMES(2) (1453 SF)

WELL HOUSE (125 SF)

WELL HOUSE

APPROXIMATE TREE LINE (TYP)

GRAVEL DRIVEWAY

SOIL DRIVEWAY

SELF, JAMES FRANCES AND LINDA ESTELLE MERRITT
ZONING:RL
LAND USE: AGRICULTURE
PIN # 1768238815
4,276,105 S.F.
98.166 AC.

N/F
OPTIMAL DEVELOPMENT, LLC
D.B. 18224 PAGE 1209
B.M. 1985 PAGE 1807
PIN# 1768.03-33-7689
LAND USE: VACANT
ZONING: RL

FH(TBM)
N(y):783942.42'
E(x):2164076.84'
TOPNUT ELEV:398.72'

YI
TOP:397.83'
IN(18"RCP):394.36'
OUT(18"RCP):394.25'

WMH
TOP: 398.78
INV: 393.48'

18"RCP
INV:393.57'

EXISTING 50' GAS EASEMENT
D.B. 17016 PG. 398

EMILY LANE
EXISTING 30' PRIVATE ACCESS EASEMENT
D.B. 3361 PG. 212

15"RCP
INV:390.60'

15"RCP
INV:389.31' FH

FH(TBM)
N(y):783226.94'
E(x):2164169.11'
TOPNUT ELEV:393.58'

EXISTING 20' CITY OF RALEIGH UTILITY EASEMENT
B.M. 2019, PG. 1227
(PORTION OF 20' EASEMENT WITHIN R/W) B.N.

EXISTING PROPERTY LINE/ROW

ROLESVILLE ROAD
60' PUBLIC R/W
(S.R.#2308)

GUNZ,BETTY R TEXWEST LLC
ZONING:RL
LAND USE: AGRICULTURE
PIN # 1768328863
TOTAL AREA
729,394 S.F.
16.745 AC.

EXISTING 20' CITY OF RALEIGH UTILITY EASEMENT
B.M. 2019, PG. 1227
(PORTION OF 20' EASEMENT WITHIN R/W) B.N.

GRAVEL DRIVE

1 SFD (1120 SF)

WELL HOUSE (21 SF)

SHED W/ OVERHANG (519 SF)

BARN W/ OVERHANG (1624 SF)

1 SFD (1637 SF)

SOIL DRIVE

18"RCP
INV(W): 380.92'
INV (E): 379.72

FOWLER ROAD
60' PUBLIC R/W
(S.R.#2308)

GRAVEL DRIVE

CC–DRIVE

TEL

N/F
ASHTON RALEIGH RESIDENTIAL, LLC
D.B. 17720 PAGE 1663
B.M. 2021 PAGE 1746
PIN# 1768.03-04-3342
LAND USE: VACANT
ZONING: R&PUD

EXISTING 20' CITY OF RALEIGH SANITARY SEWER EASEMENT D.B. 12486 PG. 1171 B.B 2008 PG. 480

RIM:308.01' IN:301.00' OUT:300.80'

FENCE IS 0.7' SOUTH PROPERTY LINE

FENCE CROSSES PROPERTY LINE AT THIS POINT

N 88°47'41" E 1587.76'

NEUSE RIPARIAN BUFFER (ZONE 1)

1% ANNUAL FEMA FLOOD LIMIT ZONE "AE" MAP # 3720-1768-00K DATED JULY 19, 2022

NEUSE RIPARIAN BUFFER (ZONE 2)

APPROXIMATE TREE LINE (TYP)

NEUSE RIPARIAN BUFFER (ZONE 2)

LILES FAMILY LLC
ZONING:RL
LAND USE: FORESRY
PIN # 1758928330
TOTAL AREA
3,359,549 S.F.
77.125 AC.
VACANT

NEUSE RIPARIAN BUFFER (ZONE 1)

PROPERTY LINE(L-9)PER PER D.B. 5178 PG. 858 B.M. 1985 PAGE 1806

S 86°15'26" W 1900.36'

WETLAND (TYP)

N/F
JOSEPH E. GUNZ
& BETTY R. WALL
D.B. 5178 PAGE 858
B.M. 1985 PAGE 1806
PIN# 1768.03-21-6907
LAND USE: FORESTRY
ZONING : RL

WETLAND (TYP)

1% ANNUAL FEMA FLOOD LIMIT ZONE "AE" MAP # 3720-1758-00K DATED JULY 19, 2022

0.1% ANNUAL FEMA FLOODWAY

WETLAND (TYP)

JMP

SWAMP

POND

N/F LOUIS CHARLES SELLETT
D.B. 14011 PAGE 2674
B.M. 2010 PAGE 291
PIN# 1768.03-01-0460
LAND USE: VACANT ZONING : RL

N/F
LOUIS CHARLES SELLETT
D.B. 14011 PAGE 2674
B.M. 2010 PAGE 291

GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)
1 inch = 150 ft

GENERAL NOTES:

1) SURVEY INFORMATION PROVIDED BY CMP PROFESSIONAL LAND SURVEYOR PL.

2) SEE SHEET CX-100 FOR DEMOLITION PLAN

FH(TBM)
N(y):781653.29'
E(x):2164363.45'
TOPNUT ELEV:366.56'

PROJECT NUMBER = CID-25-02

North Carolina 811

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

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

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

PRELIMINARY

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE
EXISTING CONDITIONS
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EXISTING CONDITIONS

SHEET NO.:

CV-100

Z:\Jobs\23-0004 Merrit Property BRD\dwg_Working Dwgs\Sheets\Construction Sets\5. CV-100 Existing Conditions.dwg

2025-09-03

POTABLE WATER SUPPLY WELL DECOMMISSIONING/ABANDONMENT SPECIFICATIONS

ONE OR MORE POTABLE WATER SUPPLY WELLS HAVE BEEN IDENTIFIED ON THE PROPERTY LOCATED NEAR THE RESIDENCES. THE CONTRACTOR SHALL CONFIRM THE WELL SPECIFICATIONS, AND ABANDON THE WELLS IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF NORTH CAROLINA, WAKE COUNTY, AND THE REQUIREMENTS OF THESE SPECIFICATIONS. ONLY A CERTIFIED WELL CONTRACTOR REGISTERED WITH WAKE COUNTY AND THE STATE OF NORTH CAROLINA MAY ABANDON THE WELL.

THE CONTRACTOR SHALL COMPLETE AND SUBMIT A WAKE COUNTY APPLICATION FOR WELL REPAIR /ABANDONMENT PERMIT TO THE WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (WCDES). PRIOR TO THE PERMANENT ABANDONMENT PROCEDURES, THE CERTIFIED CONTRACTOR ABANDONING THE WELL SHALL PROVIDE A MINIMUM OF 24-HOURS ADVANCE NOTICE TO THE WCDES, ENVIRONMENTAL HEALTH DIVISION, AND RECEIVE APPROVAL AND A WAKE COUNTY PERMIT NUMBER.

THE CONTRACTOR SHALL CONFIRM THAT THE WELL SYSTEM HAS BEEN DE-ENERGIZED PRIOR TO ANY DEMOLITION ACTIVITIES. WELL DECOMMISSIONING/ ABANDONMENT INCLUDES THE REMOVAL OF THE WELL HOUSE, SUPPLY LINES AND ALL MATERIALS LEFT IN THE BOREHOLE/WELL. THE TOP FIVE FEET SHALL BE BACKFILLED WITH MATERIAL APPROPRIATE FOR THE INTENDED LAND USE. THE WELL SHALL BE ABANDONED IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES,DIVISION OF WATER QUALITY, REGULATIONS FOR ABANDONMENT OF WELLS (15A NCAC 02C .0113 ABANDONMENT OF WELLS) AND AS DESCRIBED HEREIN.

THE PERMANENT ABANDONMENT OF THE WATER SUPPLY WELLS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:

1. ALL CASING AND SCREEN MATERIALS MAY BE REMOVED PRIOR TO INITIATION OF ABANDONMENT PROCEDURES, IF SUCH REMOVAL WILL NOT CAUSE OR CONTRIBUTE TO CONTAMINATION OF THE GROUNDWATERS. ANY CASING NOT GROUTED IN ACCORDANCE WITH 15A NCAC 02C .0107(F) SHALL BE REMOVED OR GROUTED IN ACCORDANCE WITH 15A NCAC 02C .0107(F).
2. THE ENTIRE DEPTH OF THE WELL SHALL BE SOUNDED BEFORE IT IS SEALED TO ENSURE FREEDOM FROM OBSTRUCTIONS THAT MAY INTERFERE WITH SEALING OPERATIONS.
3. THE WELL SHALL BE DISINFECTED IN ACCORDANCE WITH RULE .0111(B)(1)(A) THROUGH .0111(B)(1)(C) OF THIS SECTION.
4. IN THE CASE OF GRAVEL-PACKED WELLS IN WHICH THE CASING AND SCREENS HAVE NOT BEEN REMOVED, NEAT-CEMENT OR BENTONITE SLURRY GROUT SHALL BE INJECTED INTO THE WELL COMPLETELY FILLING IT FROM THE BOTTOM OF THE CASING TO THE TOP.
5. WELLS CONSTRUCTED IN UNCONSOLIDATED FORMATIONS SHALL BE COMPLETELY FILLED WITH GROUT BY INTRODUCING IT THROUGH A PIPE EXTENDING TO THE BOTTOM OF THE WELL WHICH CAN BE RAISED AS THE WELL IS FILLED.
6. WELLS CONSTRUCTED IN CONSOLIDATED ROCK FORMATIONS OR THAT PENETRATE ZONES OF CONSOLIDATED ROCK MAY BE FILLED WITH GROUT, SAND, GRAVEL OR DRILL CUTTINGS OPPOSITE THE ZONES OF CONSOLIDATED ROCK. THE TOP OF ANY SAND, GRAVEL OR CUTTING FILL SHALL TERMINATE AT LEAST 10 FEET BELOW THE TOP OF THE CONSOLIDATED ROCK OR FIVE FEET BELOW THE BOTTOM OF CASING IN A MANNER TO ENSURE COMPLETE FILLING OF THE CASING, AND EXTEND UP TO LAND SURFACE. FOR ANY WELL IN WHICH THE DEPTH OF CASING OR THE DEPTH OF THE BEDROCK IS NOT KNOWN OR CANNOT BE CONFIRMED, THE ENTIRE LENGTH OF THE WELL SHALL BE FILLED WITH GROUT UP TO LAND SURFACE.

THE CERTIFIED WELL CONTRACTOR SHALL COMPLETE A NCDENR FORM GW-30 WELL ABANDONMENT RECORD. THE CONTRACTOR SHALL SUBMIT A COPY TO THE OWNER, AND THE ORIGINAL SHALL BE SUBMITTED TO THE DIVISION OF WATER QUALITY WITHIN 30 DAYS OF COMPLETION AT THE FOLLOWING ADDRESS.

NCDENR, DIVISION OF WATER QUALITY
ATTN:INFORMATION MANAGEMENT
1617 MAIL SERVICE CENTER
RALEIGH, NC 27699-1617

SUBMIT THE FOLLOWING DOCUMENTATION TO AMERICAN ENGINEERING WITHIN TWO-WEEKS FOLLOWING THE COMPLETION OF THE WELL ABANDONMENT:

1. DIGITAL PHOTOGRAPHS DOCUMENTING THE WELL CLOSURE ACTIVITIES.
2. COPIES OF PERMITS, FORMS, DRILLER LICENSES, ETC.

SEPTIC SYSTEM ABANDONMENT SPECIFICATIONS

EXISTING/OR ABANDONED RESIDENCES ON THE PROJECT SITE MAY BE SERVICED BY AN ON-SITE BELOW-GRADE SEPTIC SYSTEM. IF FOUND THE CONTRACTOR SHALL CONFIRM THE LOCATION AND ABANDON THE SEPTIC SYSTEM IN ACCORDANCE WITH THIS SECTION. FOR THE PURPOSES OF BUDGETING AND SCOPE, ASSUME THAT THE SEPTIC TANK HAS A CAPACITY OF 1,000 GALLONS AND THAT THE LEACH FIELD IS COMPRISED OF 300 FEET OF DISCHARGE LINE.

1. HAVE AN APPROVED HAULER PUMP THE LIQUID, SLUDGE AND SCUM FROM ALL THE TANKS IN THE SYSTEM AND ENSURE PROPER DISPOSAL OF THESE WASTES.
2. DISCONNECT POWER AT THE SOURCE TO ANY ELECTRICAL CONTROLS AND REMOVE ALL CONTROLS AND PANELS.
3. REMOVE THE TANKS AND DISPOSE OF PROPERLY OFF-SITE.
4. PROVIDE AND COMPACT CLEAN BACKFILL TO BRING THE EXCAVATION TO NATURAL GRADE AND ESTABLISH A VEGETATIVE COVER.
5. REMOVE ALL PARTS OF THE DRAINFIELD ON THE GROUND SURFACE (SUCH AS VALVES, VALVE BOXES AND RISERS), BACKFILL THE AREA TO A NATURAL GRADE AND ESTABLISH A VEGETATIVE COVER.
6. COAT ALL SURFACE AREAS EXPOSED TO EFFLUENT WITH HYDRATED LIME AND ESTABLISH A VEGETATIVE COVER.

SUBMIT THE FOLLOWING DOCUMENTATION TO AMERICAN ENGINEERING WITHIN TWO-WEEKS FOLLOWING THE COMPLETION OF THE SEPTIC SYSTEM ABANDONMENT:

1. DIGITAL PHOTOGRAPHS DOCUMENTING THE SEPTIC SYSTEM CLOSURE ACTIVITIES.
2. DOCUMENTATION OF PROPER DISPOSAL OF WASTE, TANKS, ETC.
3. COPIES OF PERMITS, FORMS, LICENSES, ETC.

LEGEND:

EIP – EXISTING IRON PIPE
EIB – EXISTING IRON BAR
BEIP – BENT IRON PIPE
BEIB – BENT IRON BAR
CM – CONCRETE MONUMENT
EPK – EXISTING PK NAIL
SPK – SET PK NAIL
NIP – NEW IRON PIPE SET
R/W – RIGHT OF WAY
CATV – CABLE TV BOX
EB – ELECTRIC BOX
TEL – TELEPHONE PEDESTAL
PP – POWER POLE
OHL – OVERHEAD LINE
LP – LIGHT POLE
WM – WATER METER
WV – WATER VALVE
CO – SEWER CLEAN–OUT
CC – CONCRETE
CB – CATCH BASIN
MH – MANHOLE
FH – FIRE HYDRANT
GP – GAS POST
FOM – FIBER OPTIC MARKER
SFD – STORY FRAME DWELLING

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

PRELIMINARY

PRELIMINARY
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 36528 JAKOB P. KLEE
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FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE
DEMOLITION PLAN
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

DEMOLITION PLAN

SHEET NO.:

CX-100

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

Z:\Jobs\23-0004 Merrit Property (BRD)\dwg_Working Dwgs\Sheets\Construction Sets_CX-100\Demo Plan.dwg
2025-09-03

EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)
1 inch =150 ft

PROJECT NUMBER = CID-25-02

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

PRELIMINARY

PRELIMINARY
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NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 1 OVERALL

ROLESVILLE RD
WAKE COUNTY NC 27312

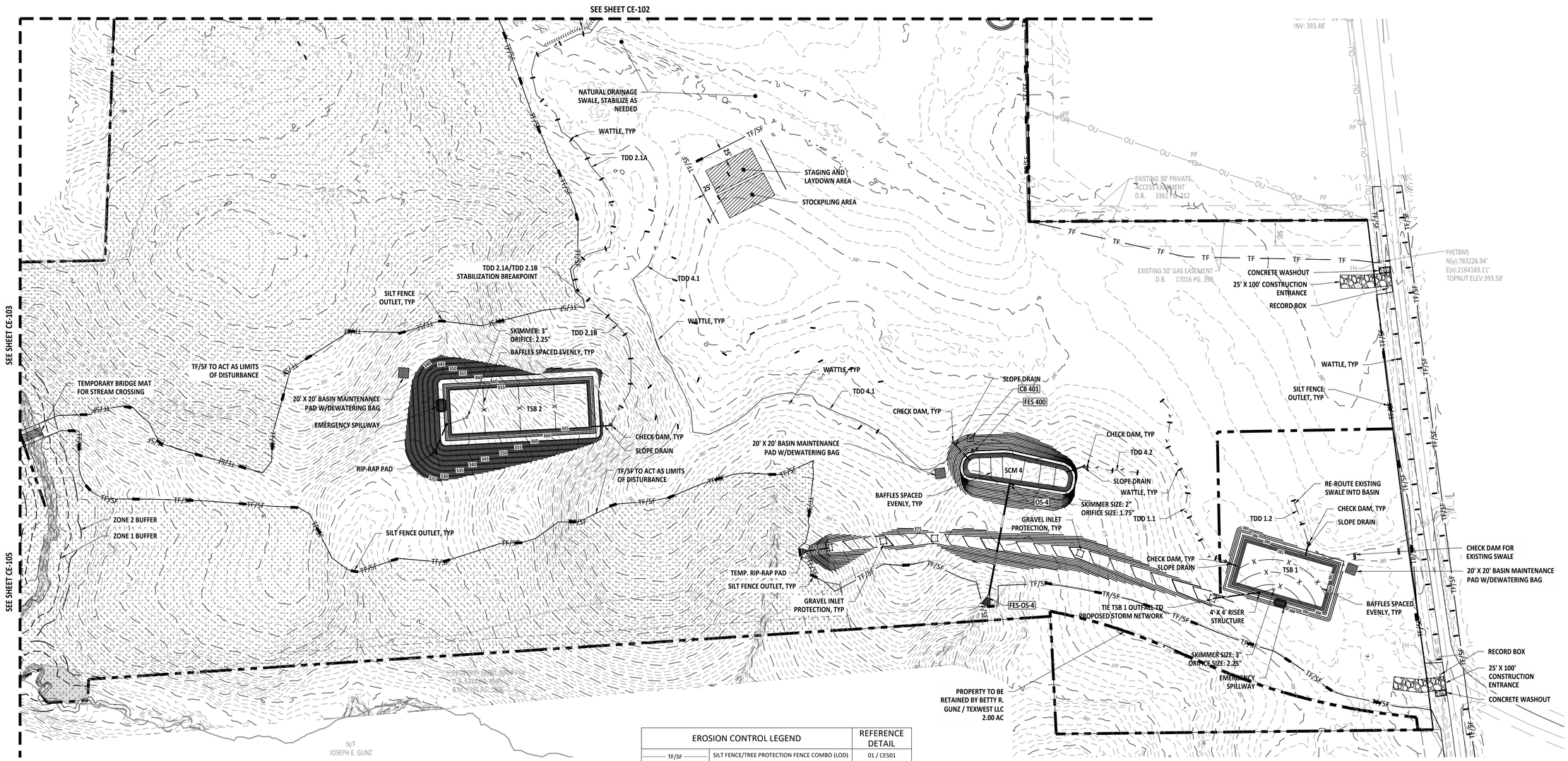
JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 1 OVERALL

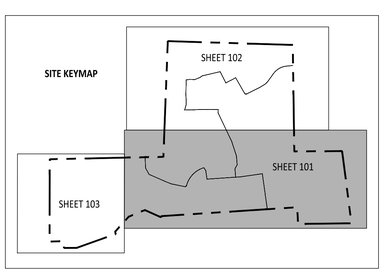
SHEET NO.:
CE-100

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

Z:\Jobs\23-0004 Merrit Property 8805\dwg_Working Dwgs\Sheets\Construction Set\7. CE-100 Erosion Control Overall Plan.dwg
2025-09-03



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A



SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**
2. **SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.**

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100ft

PROJECT NUMBER = CID-25-02

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

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

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

PRELIMINARY
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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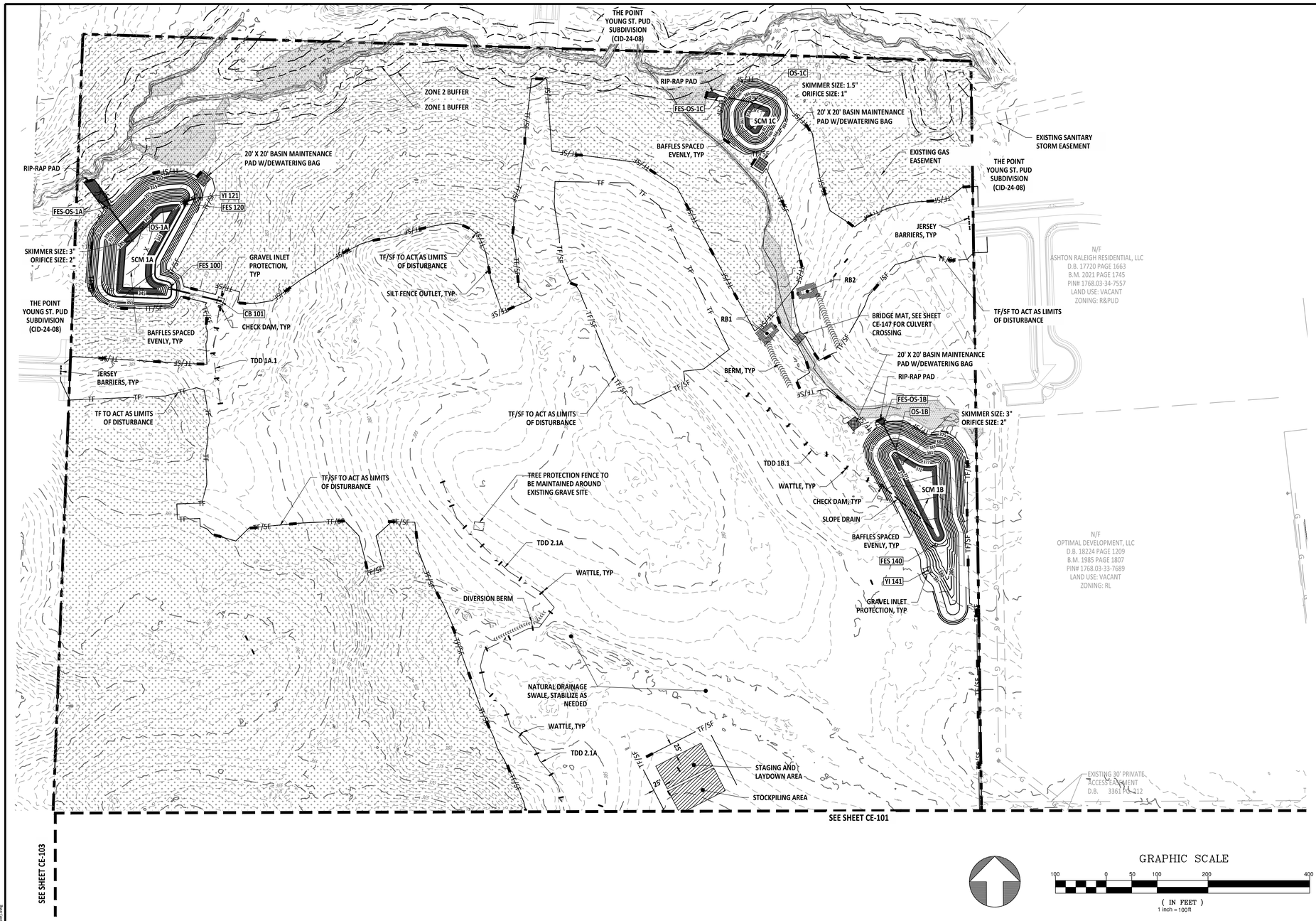
MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 1
ROLESVILLE RD
WAKE COUNTY NC 27312

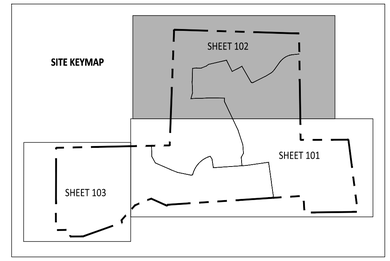
JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LI
DATE:	08/04/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 1

SHEET NO.:
CE-101

T:\Job\23-0004 Merritt Property BBP\dwg_Working Dwgs\Sheets\Construction Set\8_CE-101-103 Erosion Control (100-Scale).dwg
2025-09-03





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)

1 inch = 100 ft

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**
2. **SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.**

PROJECT NUMBER = CID-25-02

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

PRELIMINARY

NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEE

DO NOT USE FOR CONSTRUCTION

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 1

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 1

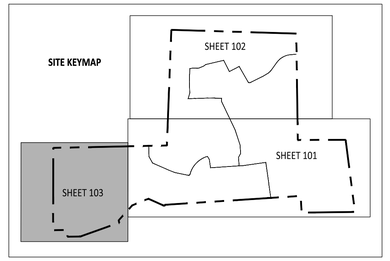
SHEET NO.:

CE-102

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

Z:\Jobs\23-0004 Merrit Property BRP\Dwg_Working Dwgs\Sheets\Construction Set\R_CE-101-103 Erosion Control (1) 90's.wd.dwg

2025-09-03



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**
2. **SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.**

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft

PROJECT NUMBER = CID-25-02

North Carolina 811

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

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

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

PRELIMINARY

NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 1
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

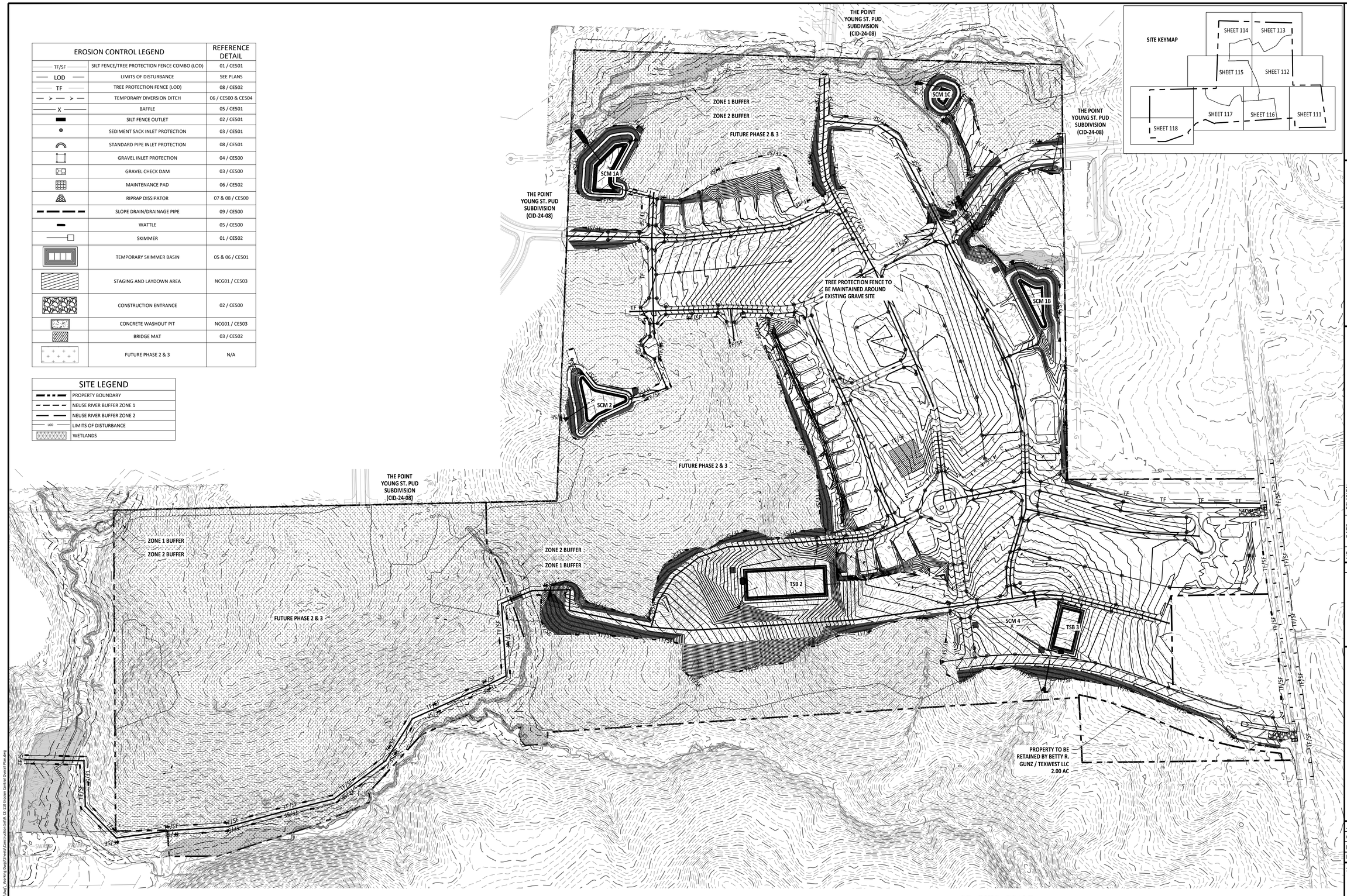
SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 1

SHEET NO.:
CE-103

Z:\Jobs\23-0004 Merrit Property (BRD)\dwg_Working Dwgs\Sheets\Construction Set\8_01-103 Erosion Control (1100 Scale).dwg
2025-09-03

EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS



GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)
1 inch =150 ft

PROJECT NUMBER = CID-25-02

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

PRELIMINARY

NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 2 OVERALL

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2 OVERALL

SHEET NO.:
CE-110

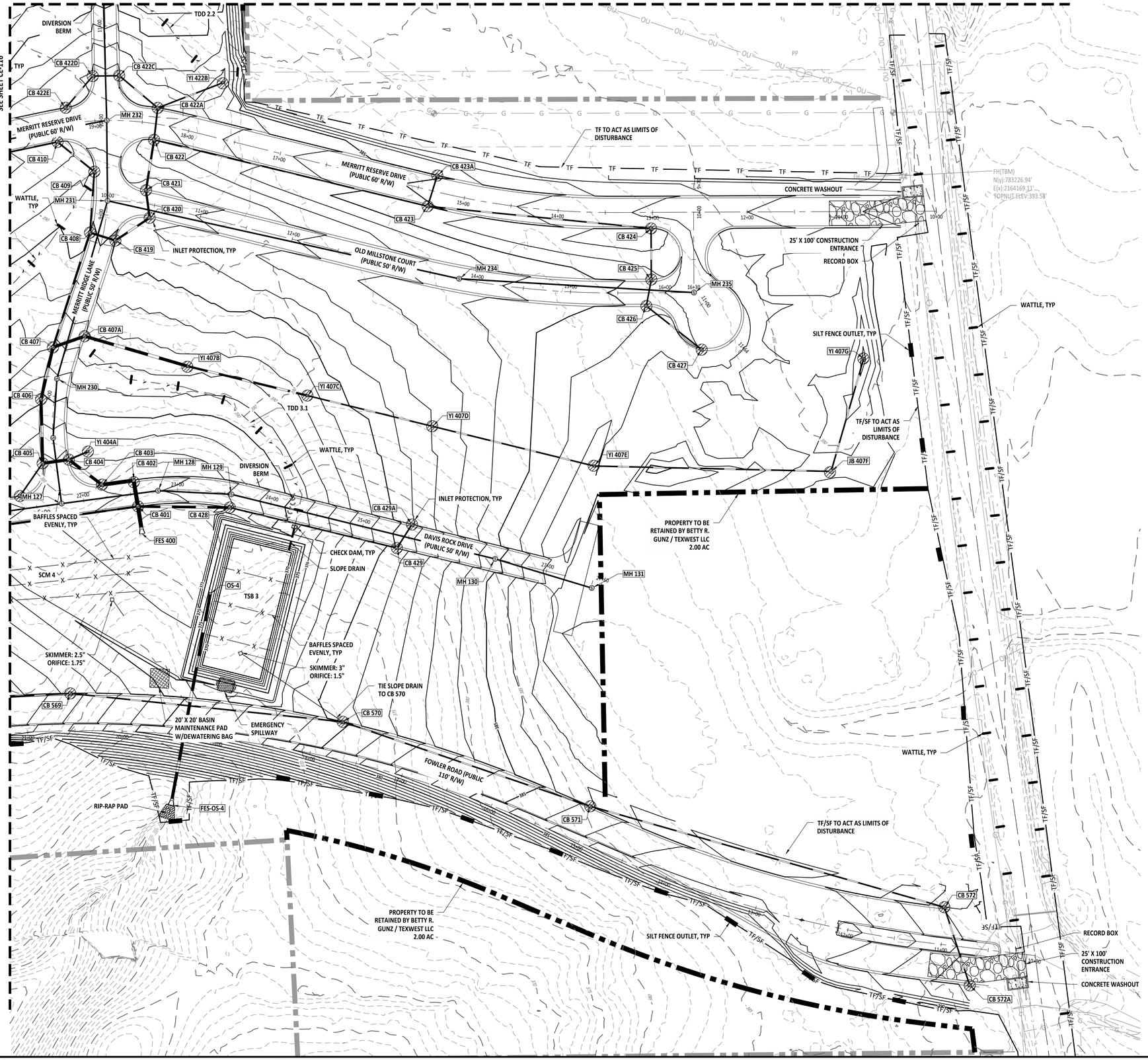
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

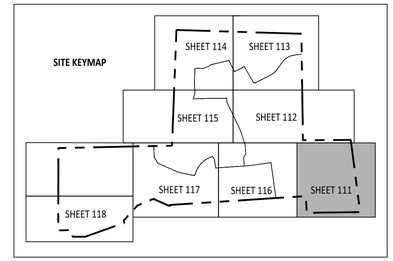
Z:\Job\23-0004 Merritt Property, Bill\Dwg_ Working Dwgs\Sheets\Construction Set\8 CE-110 Erosion Control Overall Plan.dwg

2025-09-03

SEE SHEET CE-112

SEE SHEET CE-116





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CES01
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CES02
	TEMPORARY DIVERSION DITCH	06 / CES00 & CES04
X	BAFFLE	05 / CES01
	SILT FENCE OUTLET	02 / CES01
	SEDIMENT SACK INLET PROTECTION	03 / CES01
	STANDARD PIPE INLET PROTECTION	08 / CES01
	GRAVEL INLET PROTECTION	04 / CES00
	GRAVEL CHECK DAM	03 / CES00
	MAINTENANCE PAD	06 / CES02
	RIPRAP DISSIPATOR	07 & 08 / CES00
	SLOPE DRAIN/DRAINAGE PIPE	09 / CES00
	WATTLE	05 / CES00
	SKIMMER	01 / CES02
	TEMPORARY SKIMMER BASIN	05 & 06 / CES01
	STAGING AND LAYDOWN AREA	NCG01 / CES03
	CONSTRUCTION ENTRANCE	02 / CES00
	CONCRETE WASHOUT PIT	NCG01 / CES03
	BRIDGE MAT	03 / CES02
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**
2. **SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

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

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

PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

PRELIMINARY DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 2

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

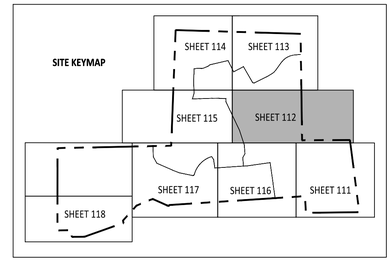
EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:

CE-111

Z:\Jobs\23-0004 Merritt Property 8870\dwg_Working Dwgs\Sheet\Construction Set\CE-111-1114 Erosion Control (SF5 plot).dwg

2025-09-03



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**
2. **SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

PRELIMINARY

PRELIMINARY PLANS NOT FOR CONSTRUCTION

NORTH CAROLINA 36528 ENGINEER JAKOB P. KLEE

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 2

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LI
DATE:	08/04/2025

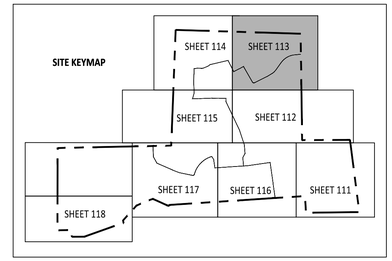
SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:

CE-112

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



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.
2. SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

PRELIMINARY

NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

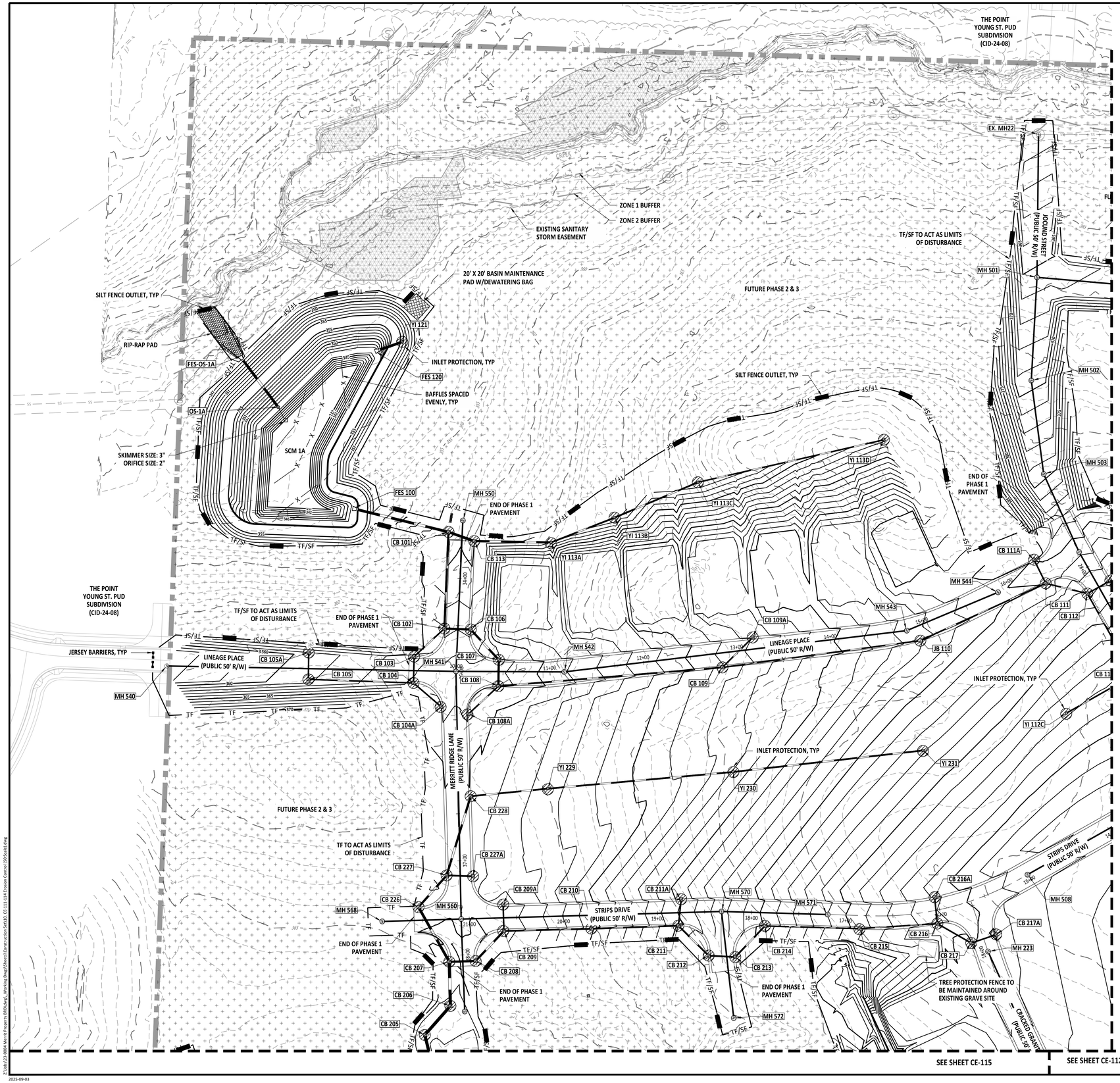
EROSION CONTROL PHASE 1 STAGE 2

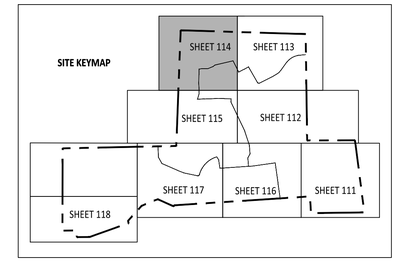
SHEET NO.:

CE-113

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

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\10. CE-111-114 Erosion Control (50 Scale).dwg
2025-09-03





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**
2. **SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

North Carolina 811 Know what's below. Call before you dig.
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

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

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

PRELIMINARY
NOT FOR RECORDATION, CONVEYANCES OR SALES
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
36528
JAKOB P. KLEMM
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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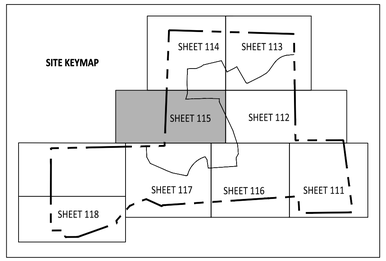
MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

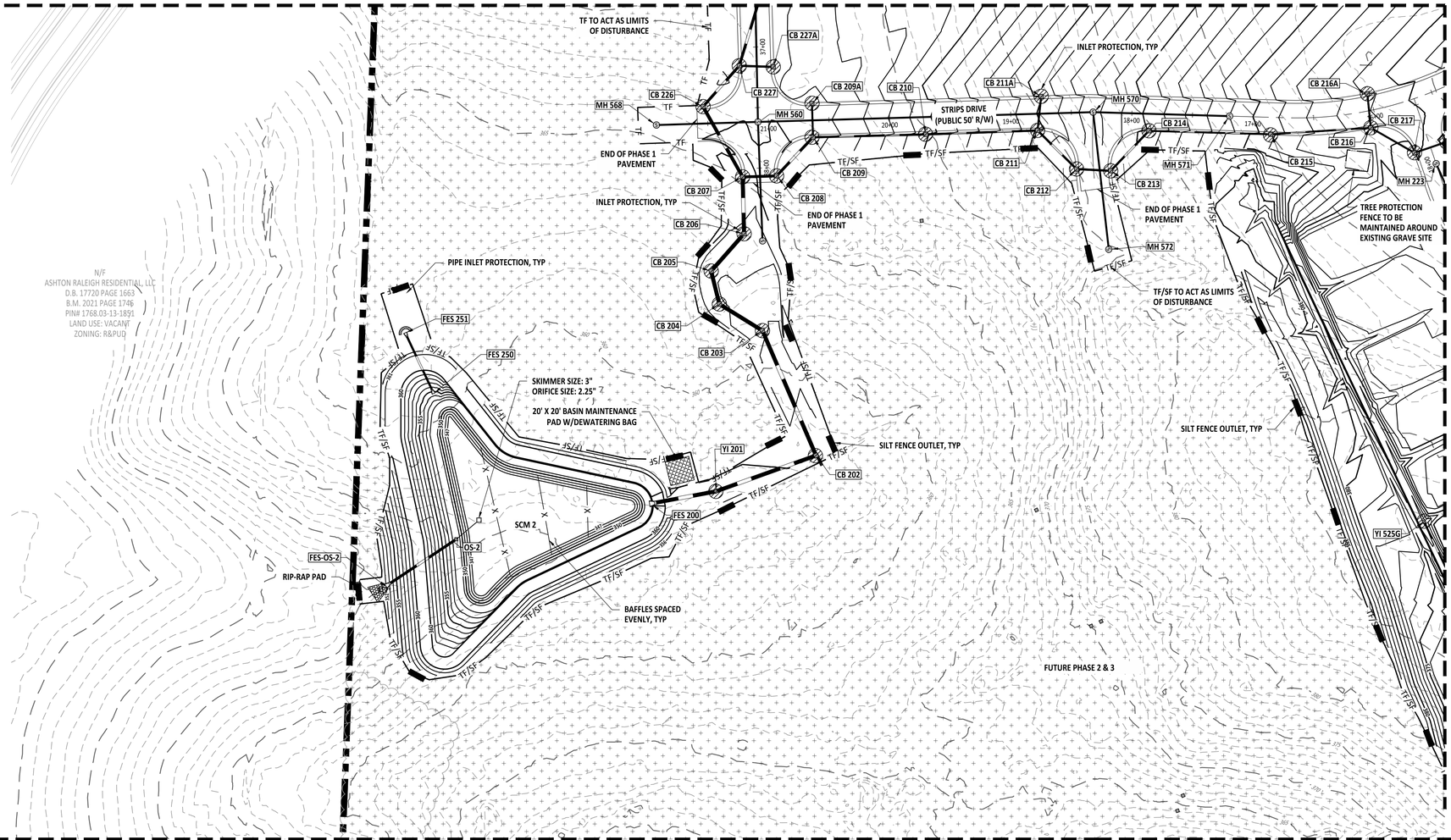
JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:
CE-114

Z:\Jobs\23-0004 Merrit Property (BRD)\dwg_Working Dwgs\Sheets\Construction Set\10. CE-111-114 Erosion Control (SD) Set.dwg
2025-09-03





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**
2. **SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

NORTH CAROLINA ENGINEERING CORPORATION AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY

PRELIMINARY
NOT FOR RECORDATION
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
36528
JAXON P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 2

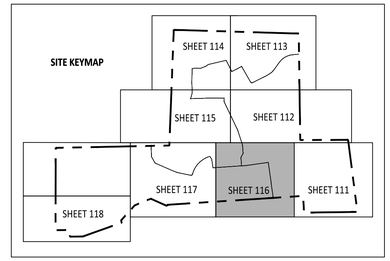
SHEET NO.:

CE-115

North Carolina 811 Know what's below. Call before you dig.
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property 889\Dwgs_Working Dwgs\Sheets\Construction Set\11 CE-115-118 Erosion Control (50 Scale).dwg

2025-09-03



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**
2. **SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

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

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

PRELIMINARY
PRELIMINARY
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 2
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LI
DATE:	08/04/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:
CE-116

SEE SHEET CE-115

SEE SHEET CE-116

SEE SHEET CE-118

FUTURE PHASE 2 & 3

SILT FENCE OUTLET, TYP

TF/SF TO ACT AS LIMITS OF DISTURBANCE

YI 500B

YI 501

YI 502

MH 118

MH 119

MH 120

MH 121

MH 122

MH 123

MH 190

MH 191

MH 192

MH 193

MH 116

MH 115

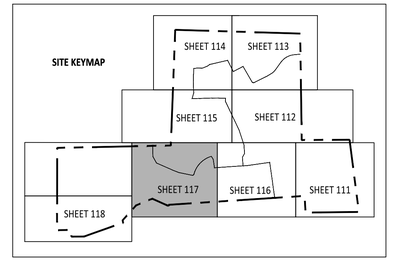
MH 113

BRIDGE MAT FOR STREAM CROSSING

20' X 20' BASIN MAINTENANCE PAD W/DEWATERING BAG

ZONE 2 BUFFER

ZONE 1 BUFFER



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**
2. **SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

PRELIMINARY

NOT FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 2

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:

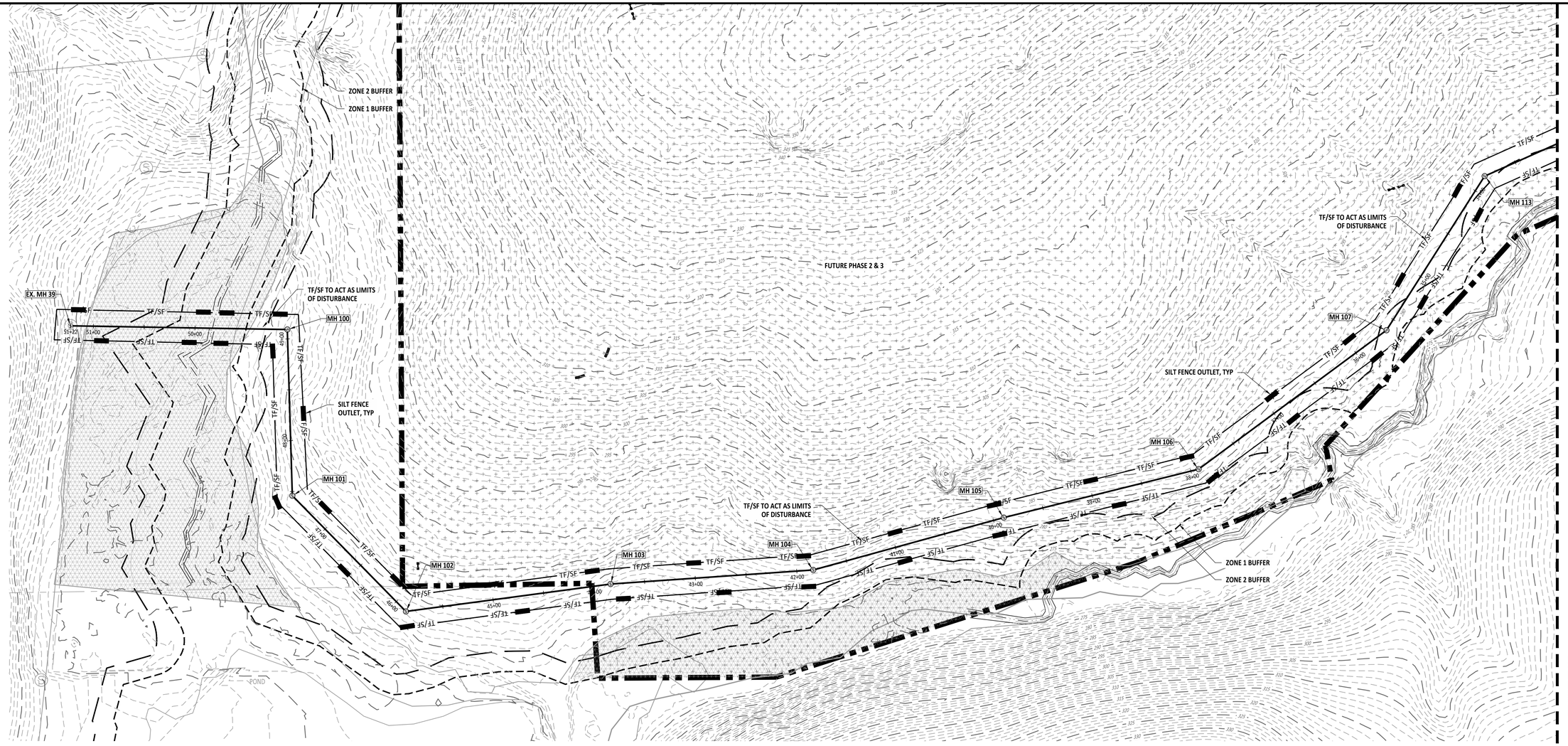
CE-117

North Carolina 811

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

Z:\Jobs\23-0004 Merritt Property BRP\Dwgs_Working Dwgs\Sheets\Construction Set\11. CE-115-118 Erosion Control (50-Scale).dwg

2025-09-03

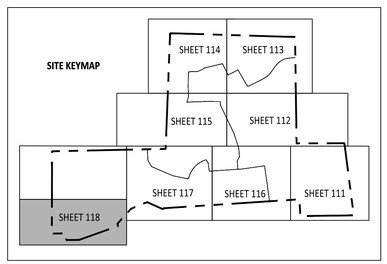


EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	TEMPORARY DIVERSION DITCH	06 / CE500 & CE504
X	BAFFLE	05 / CE501
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	WATTLE	05 / CE500
	SKIMMER	01 / CE502
	TEMPORARY SKIMMER BASIN	05 & 06 / CE501
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	BRIDGE MAT	03 / CE502
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**
2. **SEE SHEET G-005 FOR TEMPORARY DIVERSION DITCH (TDD) AND SLOPE DRAIN SIZING SCHEDULE.**



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

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

PRELIMINARY

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 2

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 2

SHEET NO.:

CE-118

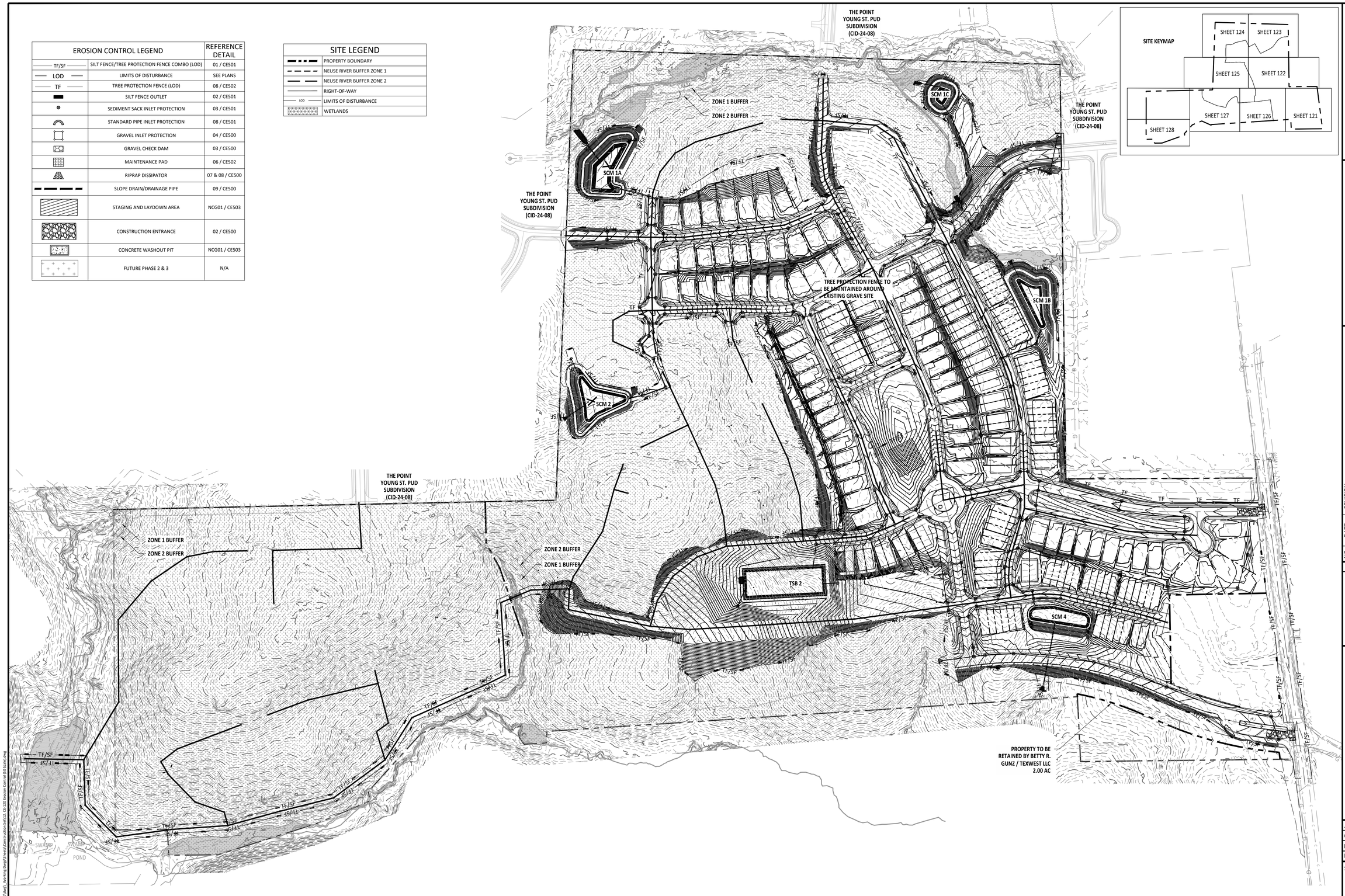
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\11- CE-115-118 Erosion Control (SS) Set.dwg

2025-09-03

EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS



GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)
1 inch = 150 ft

PROJECT NUMBER = CID-25-02

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

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

NORTH CAROLINA BOARD OF EXAMINERS FOR ENGINEERING AND SURVEYING
CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881

PRELIMINARY
PRELIMINARY
NOT FOR BIDDING
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
36528
JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 3 OVERALL

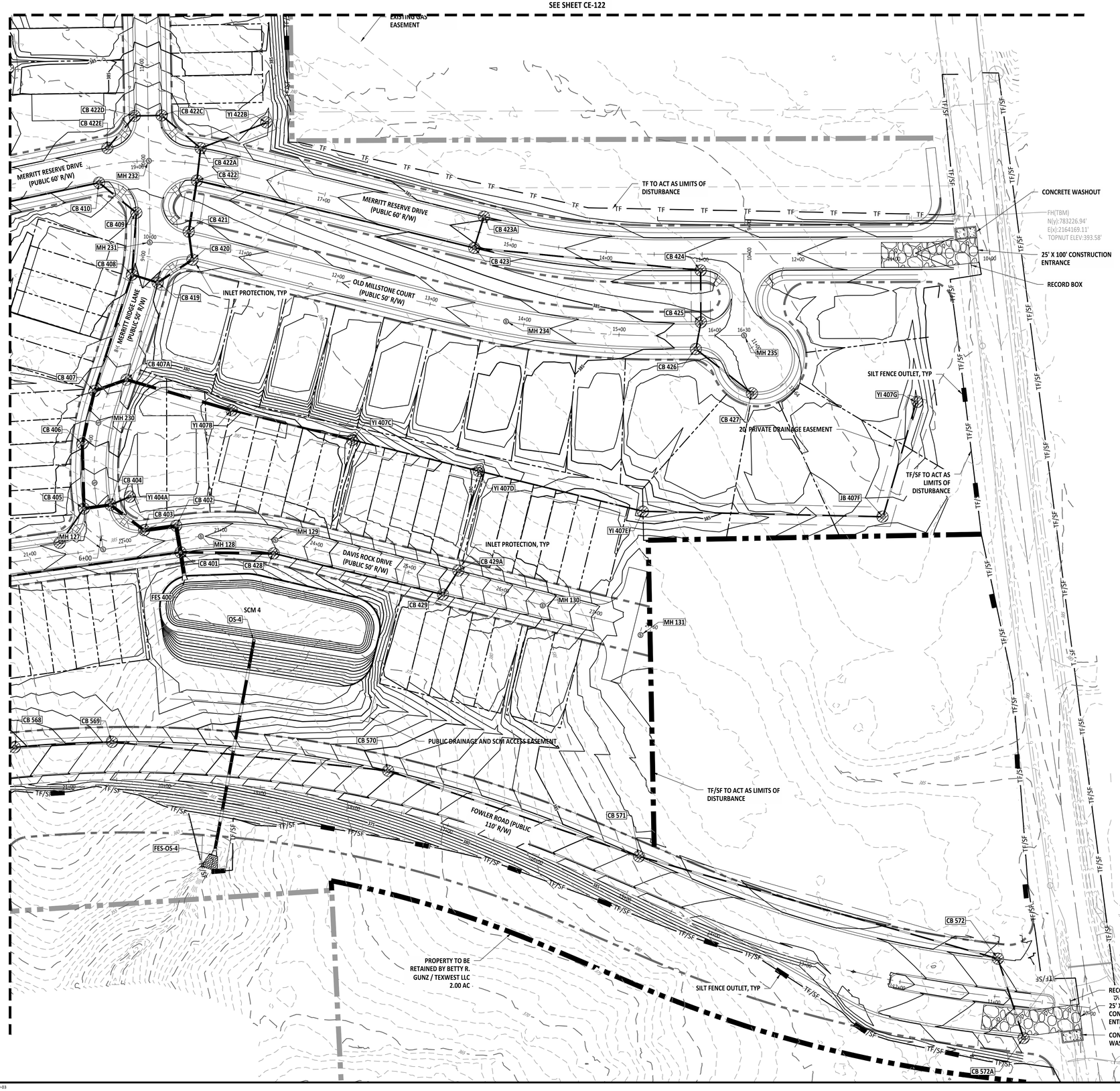
ROLESVILLE RD
WAKE COUNTY NC 27312

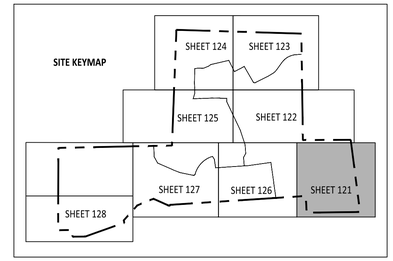
JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 3 OVERALL

SHEET NO.:
CE-120

Z:\Jobs\23-0004 Merrit Property (870)\dwg_Working Dwgs\Sheets\Construction Set\12. CE-120 Erosion Control (ISS Scale).dwg
2025-09-03





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CES01
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CES02
	SILT FENCE OUTLET	02 / CES01
	SEDIMENT SACK INLET PROTECTION	03 / CES01
	STANDARD PIPE INLET PROTECTION	08 / CES01
	GRAVEL INLET PROTECTION	04 / CES00
	GRAVEL CHECK DAM	03 / CES00
	MAINTENANCE PAD	06 / CES02
	RIPRAP DISSIPATOR	07 & 08 / CES00
	SLOPE DRAIN/DRAINAGE PIPE	09 / CES00
	STAGING AND LAYDOWN AREA	NCG01 / CES03
	CONSTRUCTION ENTRANCE	02 / CES00
	CONCRETE WASHOUT PIT	NCG01 / CES03
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

PRELIMINARY
NOT FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 3

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 3

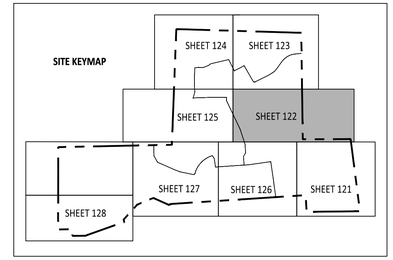
SHEET NO.:

CE-121

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

Z:\Jobs\23-0004 Merrit Property (BRD\Dwg_Working Dwgs\Sheets\Construction Set\13. CE-121-124 Erosion Control (50 Scale).dwg

2025-09-03



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

North 811 Carolina — 3 Full
*** 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

PRELIMINARY
PRELIMINARY
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA — 36528 — ENGINEER — JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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.

MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:

CE-122

Z:\Job\23-0004 Merritt Property 8870\dwg_Working Dwgs\Sheet\Construction Set\13_CE-121-124 Erosion Control ISO-Sheet.dwg
2025-09-03

N/F
BROOKFIELD HOLDINGS(THE POINTE), LLC
D.B. 18774 PAGE 748
B.M. 2021 PAGE 1745
PIN# 1768.10-25-46.98
LAND USE: ACRES GREATER THAN 10 WITH HOUSE
ZONING: R&PUD

THE POINT YOUNG ST. PUD SUBDIVISION (CID-24-08)

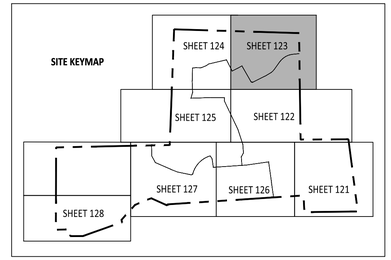
EX. MH22
ZONE 1 BUFFER
ZONE 2 BUFFER
TF/SF TO ACT AS LIMITS OF DISTURBANCE
SILT FENCE OUTLET, TYP
MH 501
MH 520
MH 521
MH 502
MH 503
TF TO ACT AS LIMITS OF DISTURBANCE
END OF PHASE 1 PAVEMENT
CB 111A
CB 112A
MH 544
CB 111
CB 112
TF/SF TO ACT AS LIMITS OF DISTURBANCE
CB 112B
INLET PROTECTION, TYP
IRCUND STREET (PUBLIC 50' R/W)
YI 112C
CB 150B
MH 504
CB 150A
CB 150
STRIPS DRIVE (PUBLIC 50' R/W)
MH 508
CB 216A
CB 151
INLET PROTECTION, TYP
SEE SHEET CE-124
SEE SHEET CE-122

FES-OS-1C
OS-1C
SCM 1C
FES 160
YI 161
SILT FENCE OUTLET, TYP
EXISTING GAS EASEMENT
EXISTING SANITARY STORM EASEMENT
FES 162
EW 21
END OF PHASE 1 PAVEMENT
CB 146B
CB 145D
CB 145C
FES 146C
MH 522
CB 145B
CB 146A
CB 145A
HW 20
CB 146
CB 145
MERRITT RIDGE LANE (PRIVATE 40' R/W)
YI 155
MH 523
CB 144A
SCM 1B
FES-OS-1B
OS-1B

SILT FENCE OUTLET, TYP
FES 41
THE POINT YOUNG ST. PUD SUBDIVISION (CID-24-08)
JERSEY BARRIERS, TYP
STRIPS DRIVE (PUBLIC 60' R/W)
CB 163
CB 164
FES 40
TF TO ACT AS LIMITS OF DISTURBANCE
STRIPS DRIVE (PUBLIC 60' R/W)

ASHTON RALEIG
D.B. 177
B.M. 20
PIN# 17E
LAND L
ZONI

SITE KEYMAP



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:
1. ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.

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

PROJECT NUMBER = CID-25-02

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

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

PRELIMINARY
NOT FOR RECORDATION, SALE OR CONVEYANCE
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
36528
JAKOB P. KLEIN
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

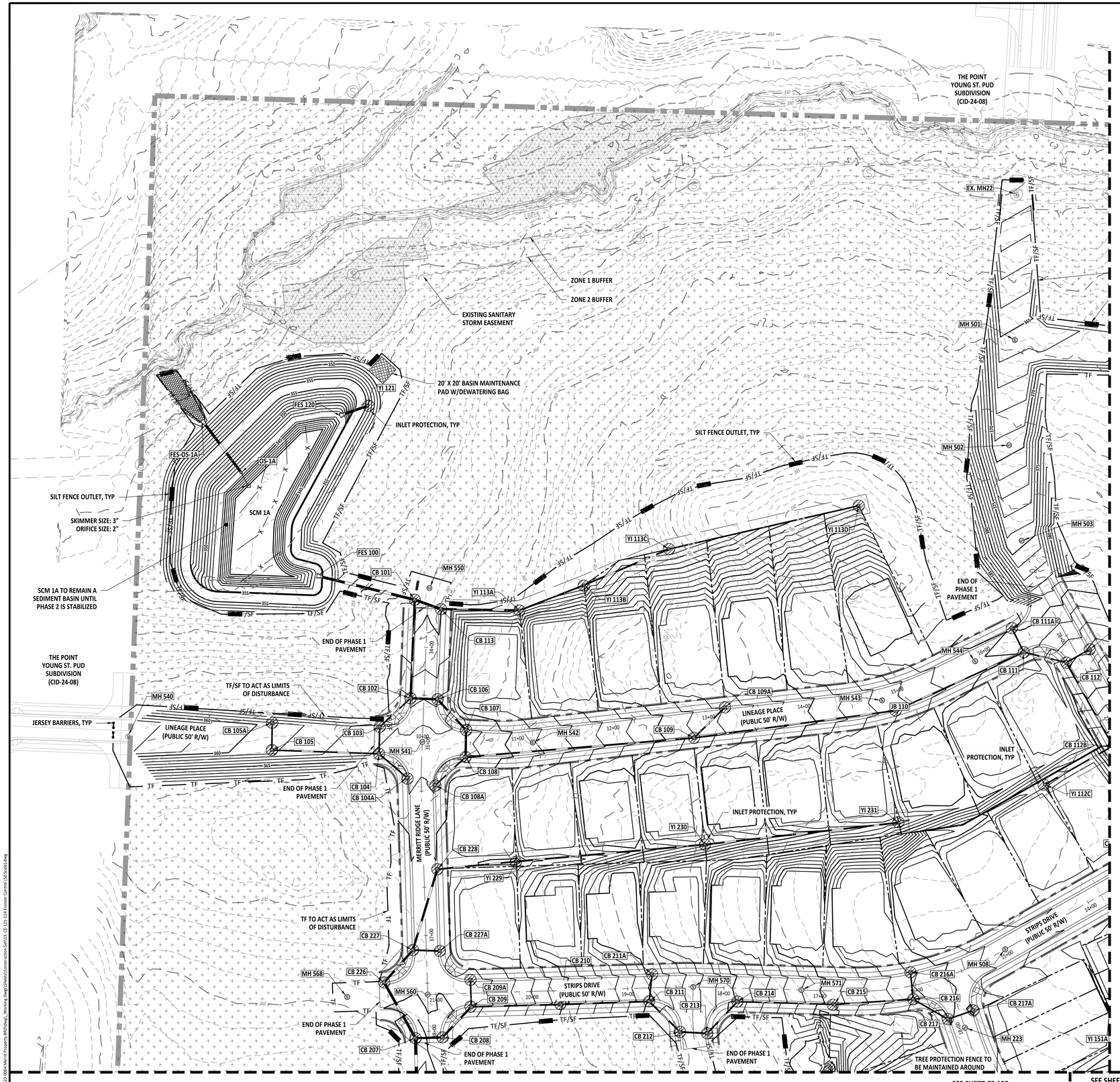
JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

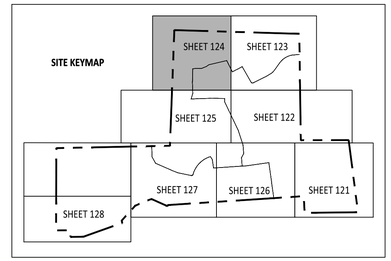
SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:
CE-123

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

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\13 CE-121-124 Erosion Control (SS Set).dwg
2025-09-03





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

PRELIMINARY
PRELIMINARY
NOT FOR RECORDATION
NOT TO BE USED FOR CONSTRUCTION
JAKOB P. KLEIN 36528 ENGINEER
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

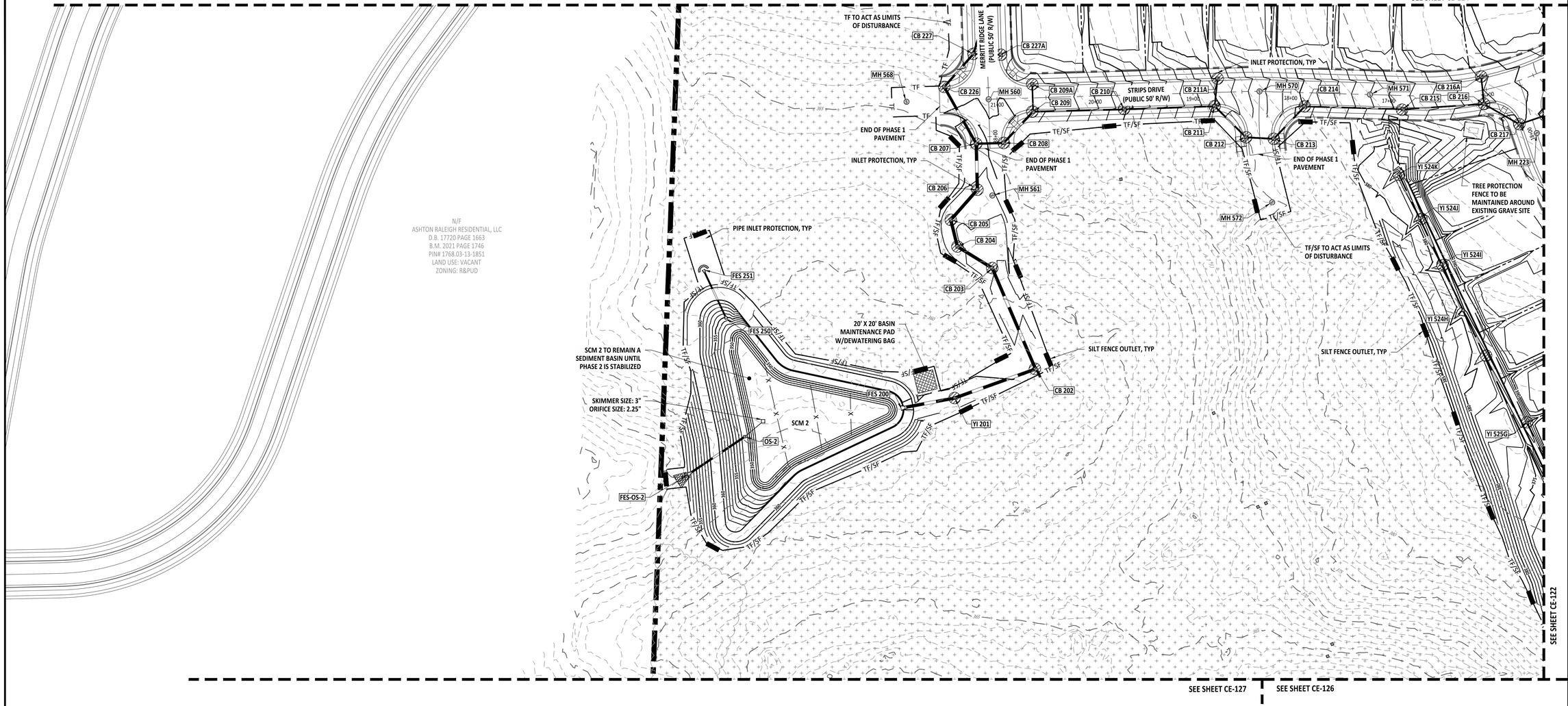
JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:
EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:
CE-124

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

Z:\Jobs\23-0004 Merritt Property BWO\Dwg_Working Dwgs\Sheets\Construction Set\13. CE-121-124 Erosion Control (50'Scale).dwg
2025-09-03

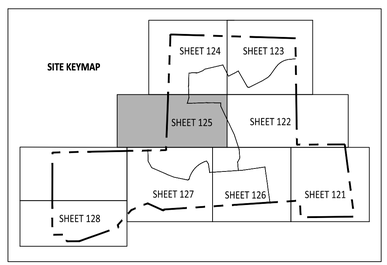


EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

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

PRELIMINARY

PRELIMINARY
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
36528
JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:

CE-125

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

Z:\Jobs\23-0004 Merritt Property BRP\Dwg_Working Dwgs\Sheets\Construction Set\14. CE-125-128 Erosion Control (50 Scale).dwg

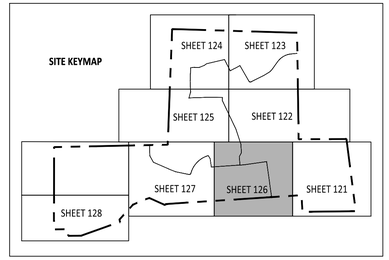
2025-09-03

SEE SHEET CE-125

SEE SHEET CE-124

SEE SHEET CE-127

SEE SHEET CE-121



EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
CONCRETE WASHOUT	CONCRETE WASHOUT PIT	NCG01 / CE503
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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, PLLC C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 36528 JAKOB P. KLEIN

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
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MERRITT RESERVE

EROSION CONTROL PHASE 1 STAGE 3

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:

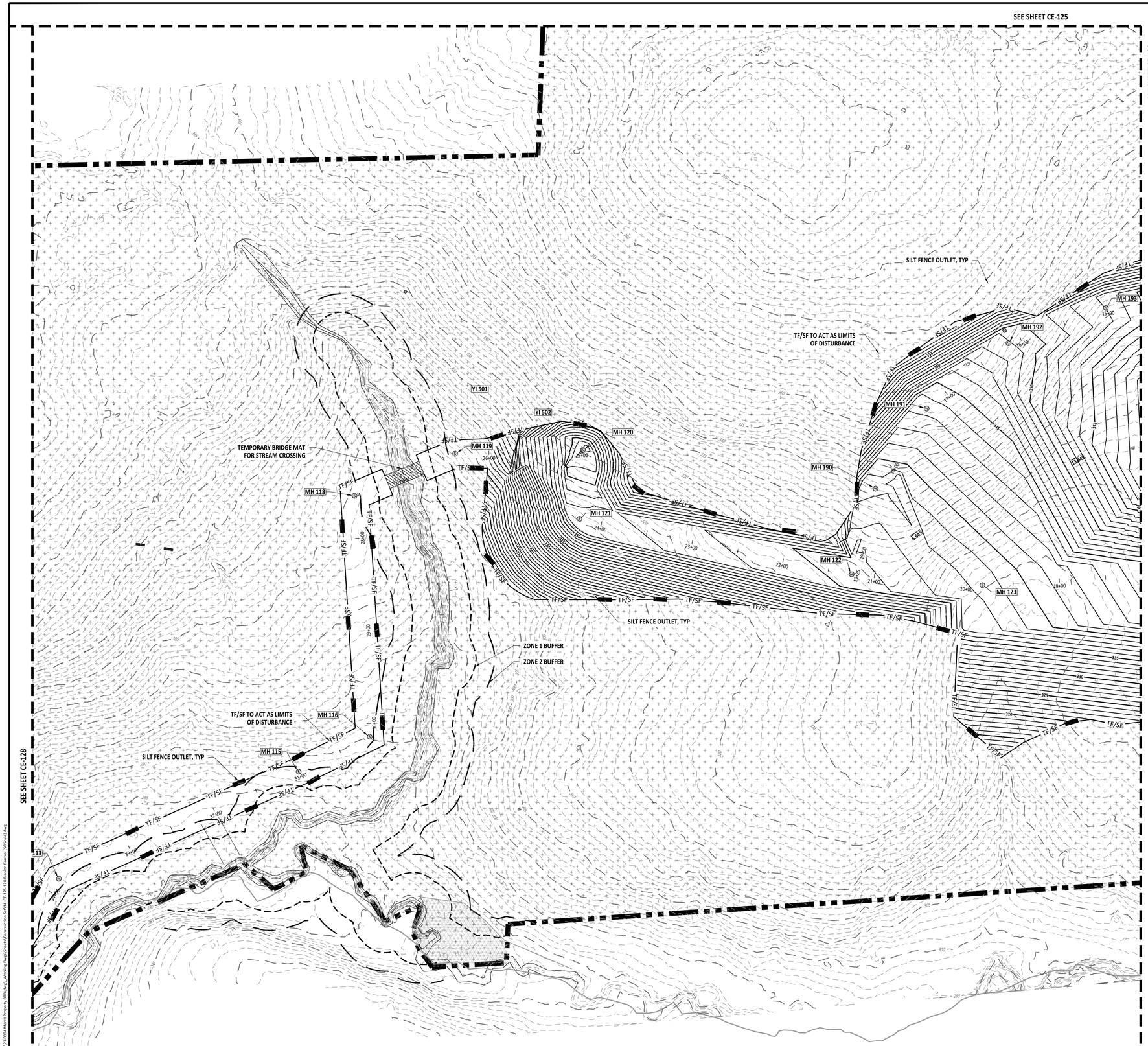
CE-126

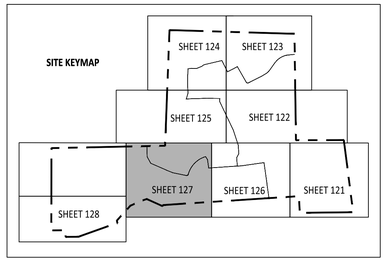
North Carolina 811 811 or 1-800

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

Z:\Jobs\23-0004 Merritt Property (BRD)\dwg_Working Dwgs\Sheets\Construction Set\14_CE-125-128 Erosion Control (50 Scale).dwg

2025-09-03





EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
LOD	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

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

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

PRELIMINARY
NORTH CAROLINA REGISTERED
JAKOB P. KLEIN
36528
ENGINEER
DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
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2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

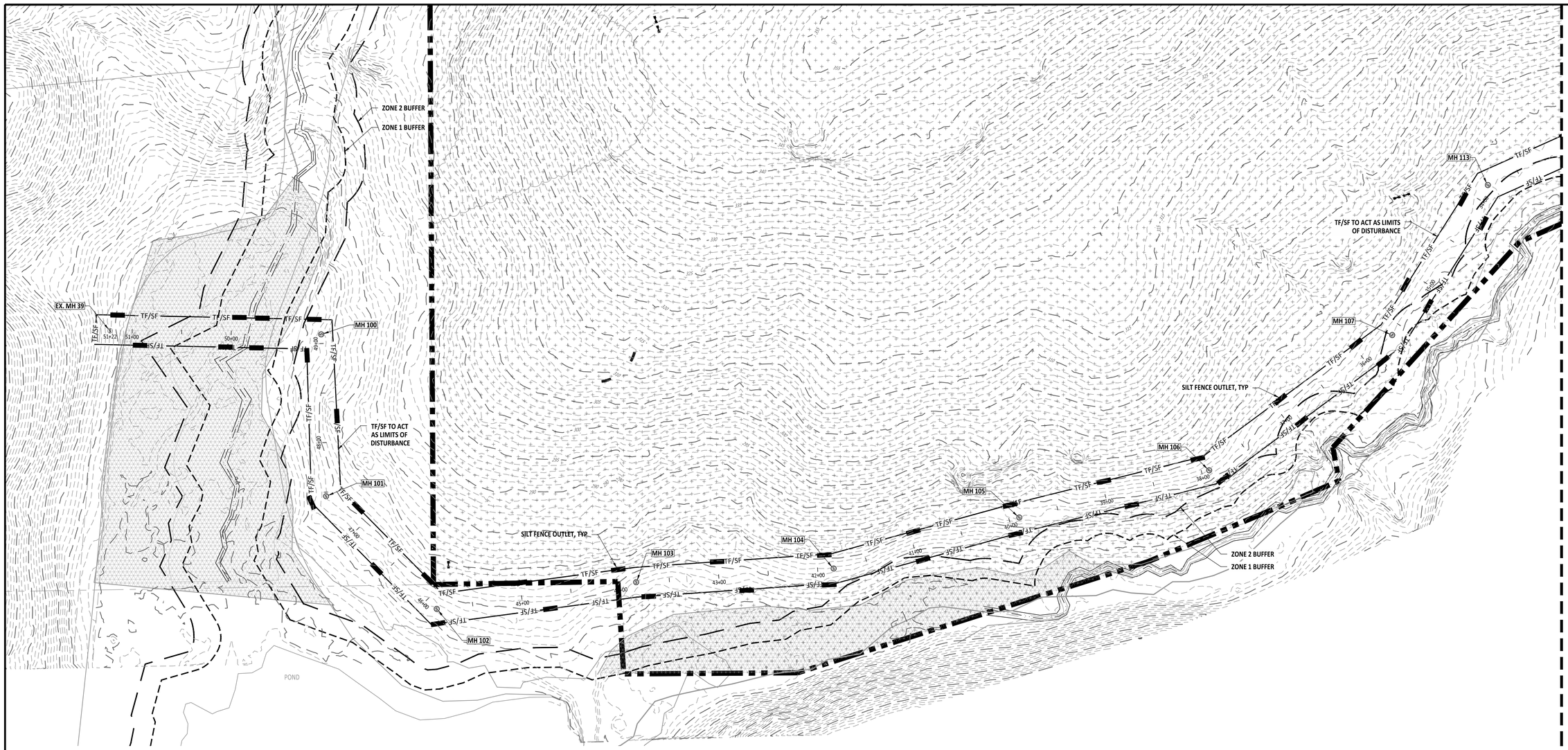
EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:

CE-127

Z:\Jobs\23-0004 Merritt Property 885\Dwgs_Working Dwgs\Sheets\Construction Set\14_CE 125-128 Erosion Control (50 Scale).dwg

2025-09-03

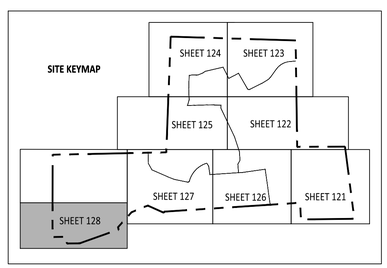


EROSION CONTROL LEGEND		REFERENCE DETAIL
TF/SF	SILT FENCE/TREE PROTECTION FENCE COMBO (LOD)	01 / CE501
LOD	LIMITS OF DISTURBANCE	SEE PLANS
TF	TREE PROTECTION FENCE (LOD)	08 / CE502
	SILT FENCE OUTLET	02 / CE501
	SEDIMENT SACK INLET PROTECTION	03 / CE501
	STANDARD PIPE INLET PROTECTION	08 / CE501
	GRAVEL INLET PROTECTION	04 / CE500
	GRAVEL CHECK DAM	03 / CE500
	MAINTENANCE PAD	06 / CE502
	RIPRAP DISSIPATOR	07 & 08 / CE500
	SLOPE DRAIN/DRAINAGE PIPE	09 / CE500
	STAGING AND LAYDOWN AREA	NCG01 / CE503
	CONSTRUCTION ENTRANCE	02 / CE500
	CONCRETE WASHOUT PIT	NCG01 / CE503
	FUTURE PHASE 2 & 3	N/A

SITE LEGEND	
	PROPERTY BOUNDARY
	NEUSE RIVER BUFFER ZONE 1
	NEUSE RIVER BUFFER ZONE 2
	RIGHT-OF-WAY
100	LIMITS OF DISTURBANCE
	WETLANDS

GENERAL NOTES:

1. **ROLLED EROSION CONTROL PRODUCT (RECP) SHALL BE INSTALLED WHERE THE DIFFERENCE IN ELEVATION IS GREATER THAN 10 FT, WITHIN BASINS, AND WHERE SLOPES ARE GREATER THAN 3:1.**



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

PRELIMINARY
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN
FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE
EROSION CONTROL PHASE 1 STAGE 3
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PHASE 1 STAGE 3

SHEET NO.:

CE-128

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

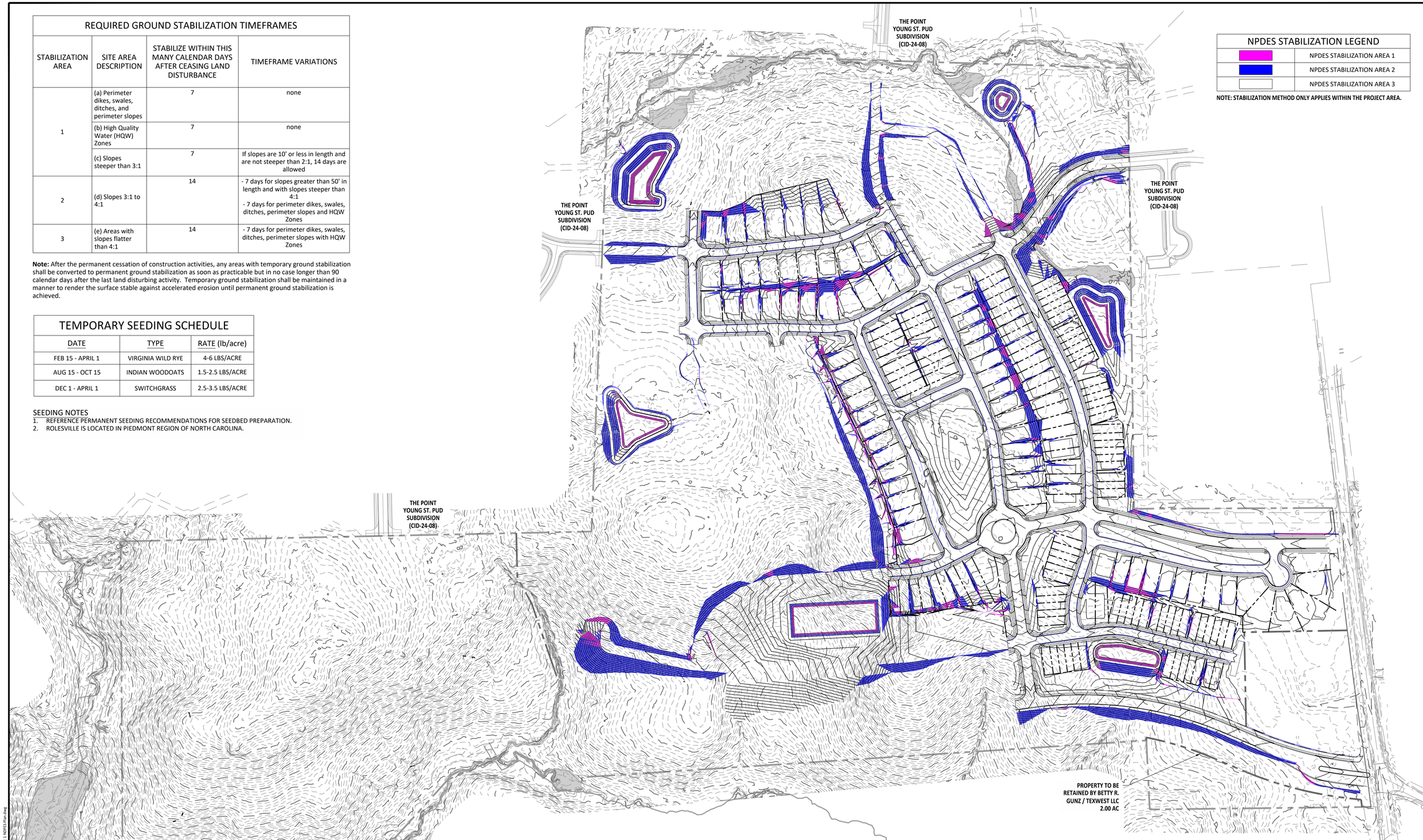
Z:\Jobs\23-0004 Merrit Property BRO\Dwg_Working Dwgs\Sheets\Construction Set\14 CE-125-128 Erosion Control (50) Set.dwg
2025-09-03

REQUIRED GROUND STABILIZATION TIMEFRAMES			
STABILIZATION AREA	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
3	(e) Areas with slopes flatter than 4:1	14	- 7 days for perimeter dikes, swales, ditches, perimeter slopes with HQW Zones

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.

TEMPORARY SEEDING SCHEDULE		
DATE	TYPE	RATE (lb/acre)
FEB 15 - APRIL 1	VIRGINIA WILD RYE	4-6 LBS/ACRE
AUG 15 - OCT 15	INDIAN WOODOATS	1.5-2.5 LBS/ACRE
DEC 1 - APRIL 1	SWITCHGRASS	2.5-3.5 LBS/ACRE

SEEDING NOTES
1. REFERENCE PERMANENT SEEDING RECOMMENDATIONS FOR SEEDBED PREPARATION.
2. ROLESVILLE IS LOCATED IN PIEDMONT REGION OF NORTH CAROLINA.



NPDES STABILIZATION LEGEND	
	NPDES STABILIZATION AREA 1
	NPDES STABILIZATION AREA 2
	NPDES STABILIZATION AREA 3

NOTE: STABILIZATION METHOD ONLY APPLIES WITHIN THE PROJECT AREA.

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 CITY 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 CITY 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.

GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)

1 inch = 150 ft

PROJECT NUMBER = CID-25-02

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

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

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

PRELIMINARY
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DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA — 36528 — JAKOB P. KLEIN — ENGINEER

FOR INFORMATION, ONLY

NO	DATE	REVISION:
1	07-01-25	FIRST REVISION SET
2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE
EROSION CONTROL PHASE 1 NDPES PLAN
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

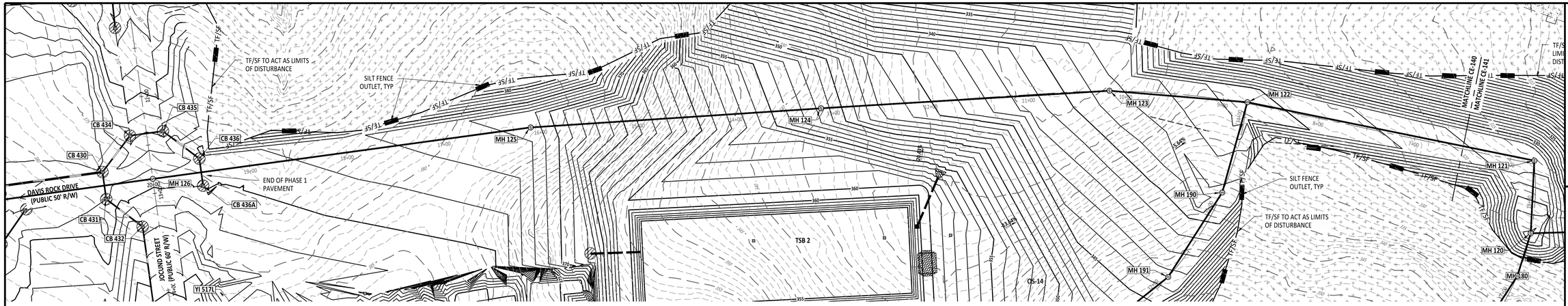
EROSION CONTROL PHASE 1 NDPES PLAN

SHEET NO.:

CE-130

Z:\Jobs\23-0004 Merritt Property (BTO)\dwg_Working Dwgs\Sheets\Construction Set\15. CE-130 PHASE 1 NDPES Plan.dwg

2025-09-03



GRAPHIC SCALE

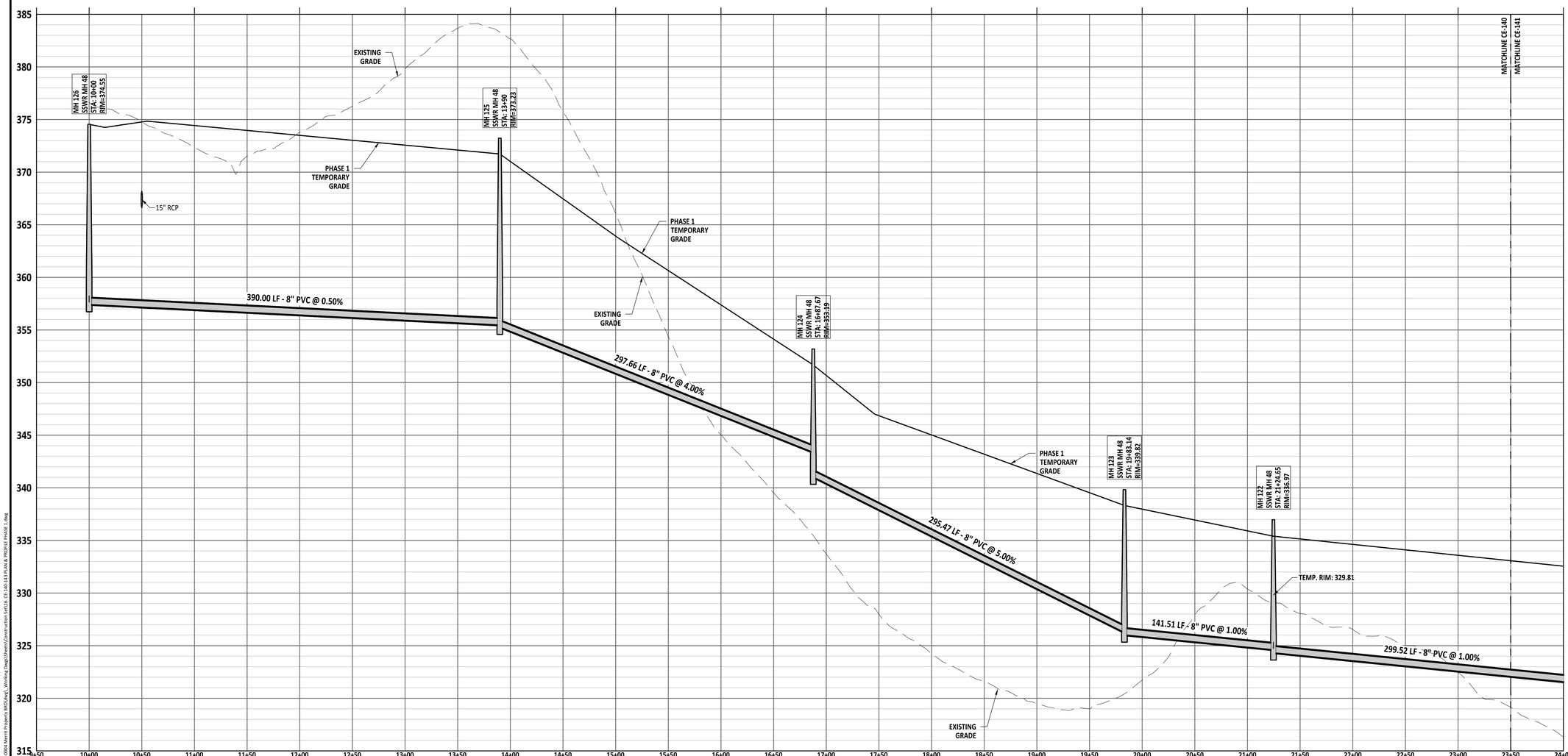
50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PHASE 1 OFFSITE SANITARY SEWER PLAN & PROFILE

GENERAL NOTES:

1. **SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.**



PROJECT NUMBER = CID-25-02

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

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

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

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
36528
DO NOT USE FOR CONSTRUCTION
JAKOB P. KLEIN
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MERRITT RESERVE

EROSION CONTROL PLAN & PROFILE PHASE 1

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LI
DATE:	08/04/2025

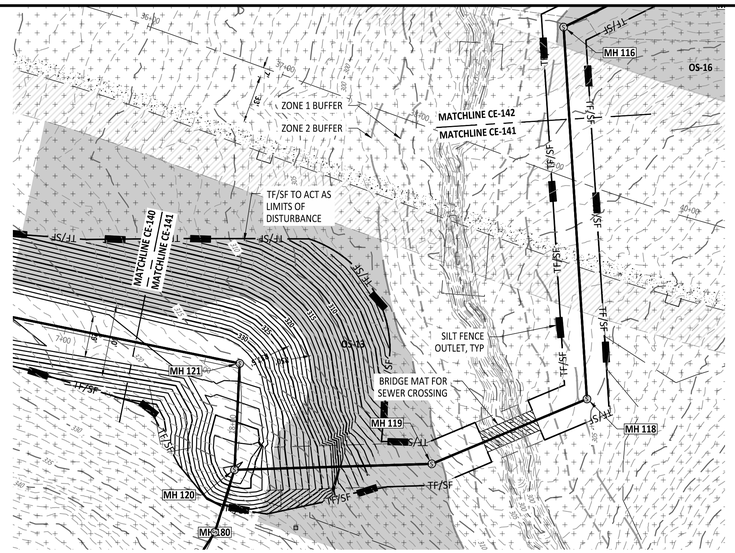
SHEET TITLE:

EROSION CONTROL PLAN & PROFILE PHASE 1

SHEET NO.:

CE-140

T:\Job\23-0004 Merritt Property BBP\Dwg_Working\Dwgs\Sheets\Construction Set\16 CE-140-143 PLAN & PROFILE PHASE 1.dwg
2025-09-03

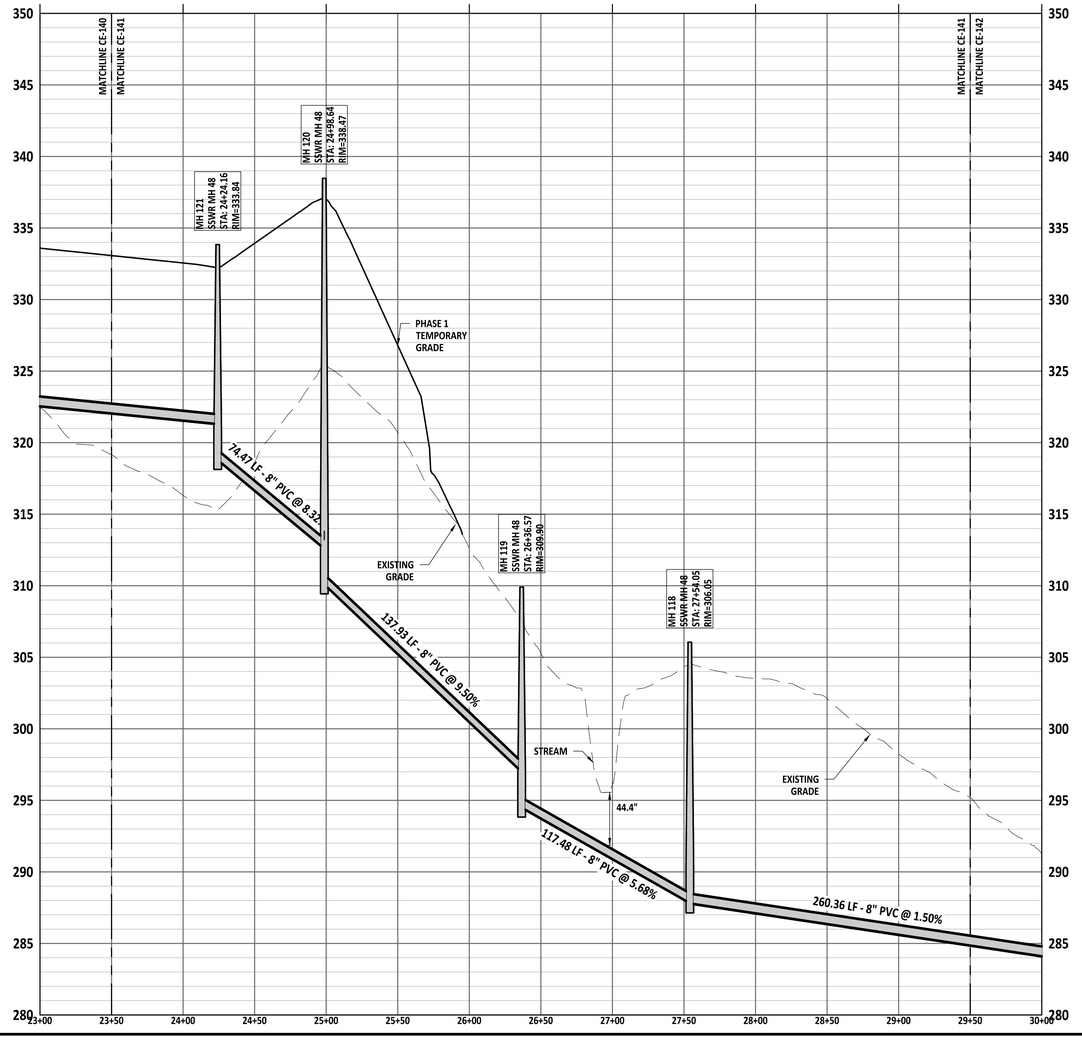


GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PHASE 1 OFFSITE SANITARY SEWER PLAN & PROFILE



GENERAL NOTES:

1. **SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.**

PROJECT NUMBER = CID-25-02

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

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

NORTH CAROLINA ENGINEERING CERTIFICATE OF AUTHORIZATION
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3861

PRELIMINARY
NOT FOR CONSTRUCTION
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
36528
JAKOB P. KLEIN
DO NOT USE FOR CONSTRUCTION
FOR INFORMATION, ONLY

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MERRITT RESERVE

EROSION CONTROL PLAN & PROFILE PHASE 1

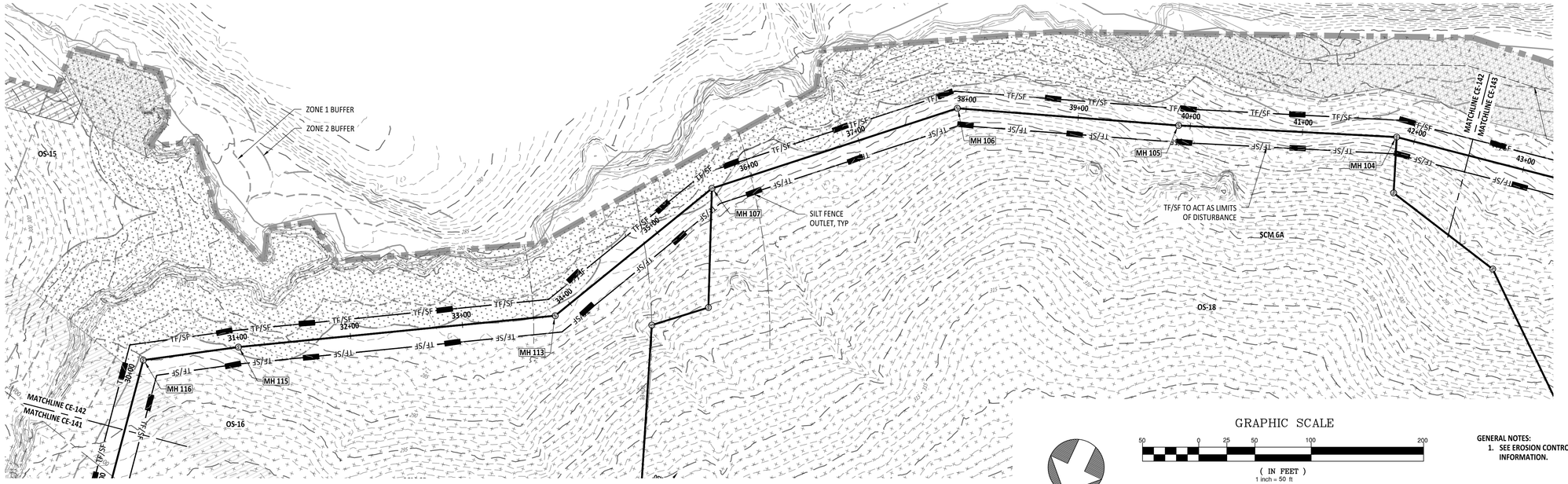
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:
EROSION CONTROL PLAN & PROFILE PHASE 1

SHEET NO.:
CE-141

Z:\Jobs\23-0004 Merritt Property (BRD\Dwg_Working Dwgs\Sheets\Construction Set\CE-140-143 PLAN & PROFILE PHASE 1.dwg
2025-09-03



GRAPHIC SCALE

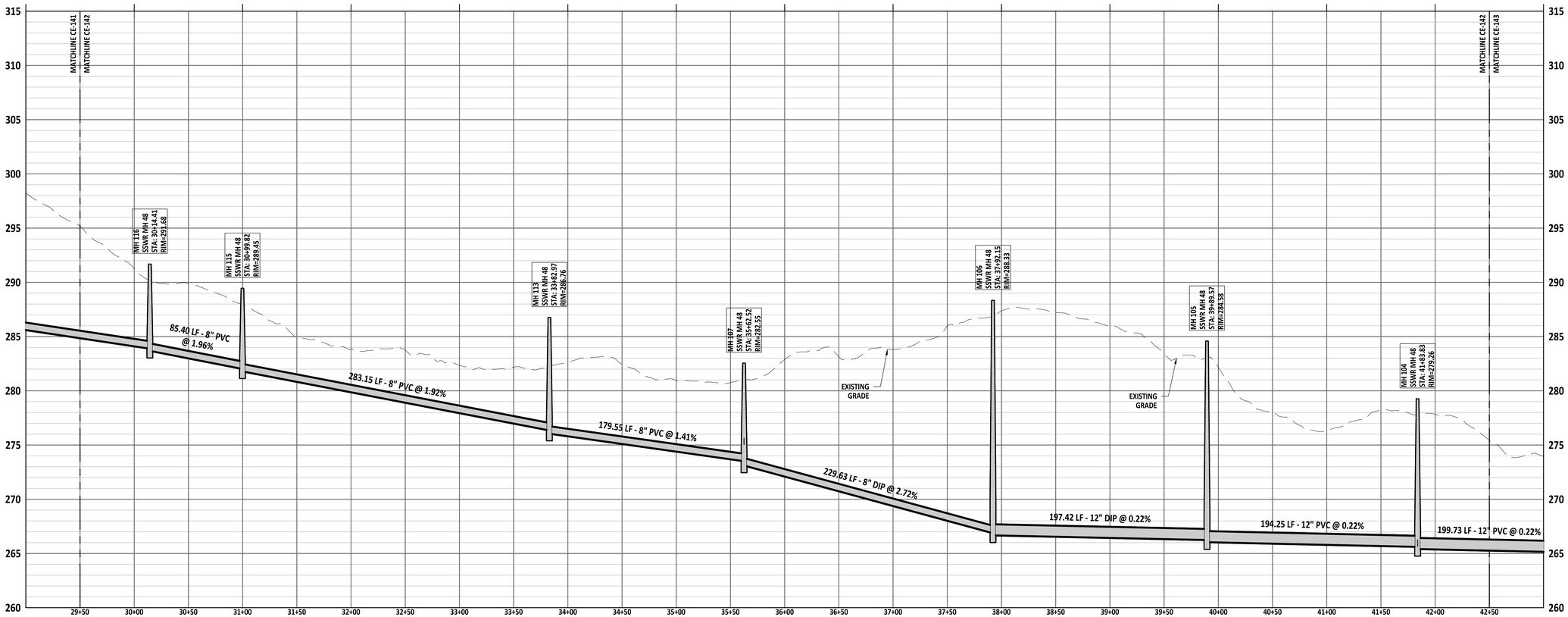
50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

GENERAL NOTES:

1. **SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.**

PHASE 1 OFFSITE SANITARY SEWER PLAN & PROFILE



PROJECT NUMBER = CID-25-02

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

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MERRITT RESERVE

EROSION CONTROL PLAN & PROFILE PHASE 1

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PLAN & PROFILE PHASE 1

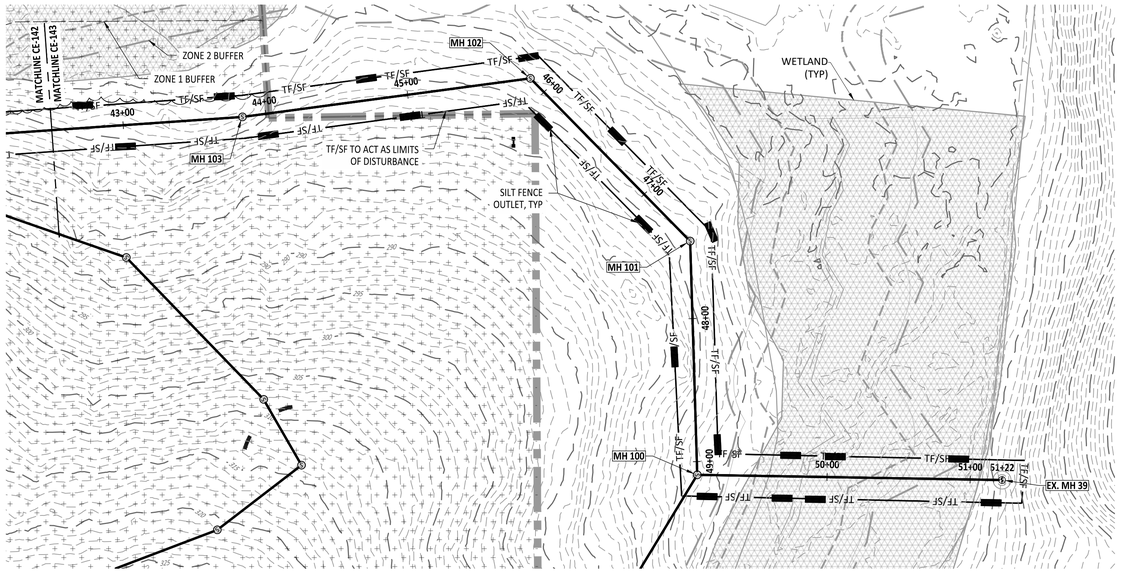
SHEET NO.:

CE-142

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

Z:\Jobs\23-0004 Merritt Property (RBP)\Mgt_Working Dwgs\Sheets\Construction Set\16. CE-140-143 PLAN & PROFILE PHASE 1.dwg

2025-09-03

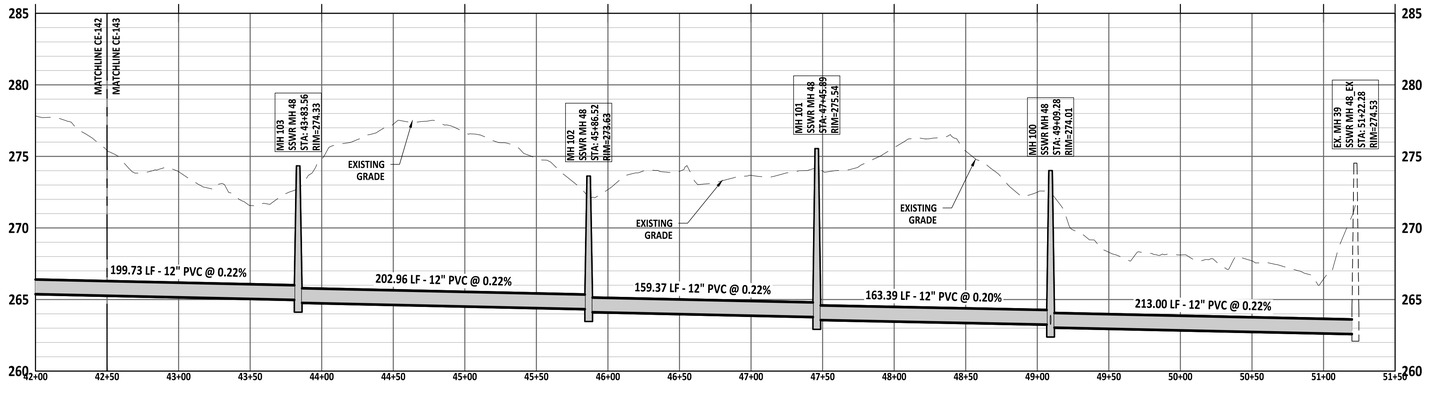


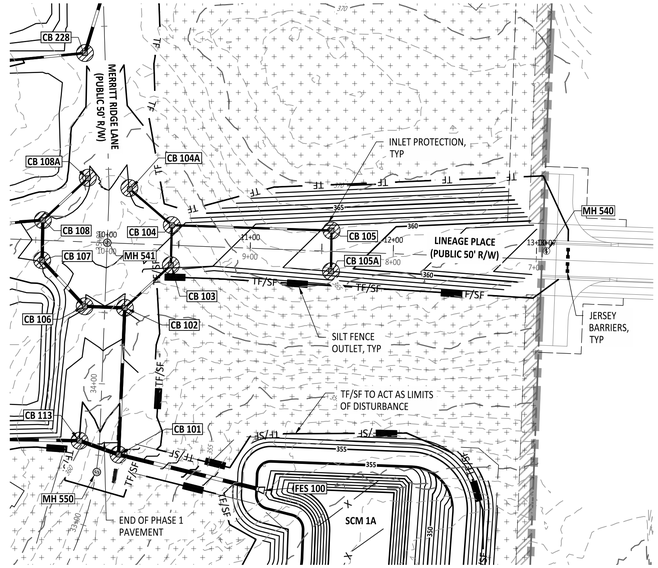
PHASE 1 OFFSITE SANITARY SEWER PLAN & PROFILE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



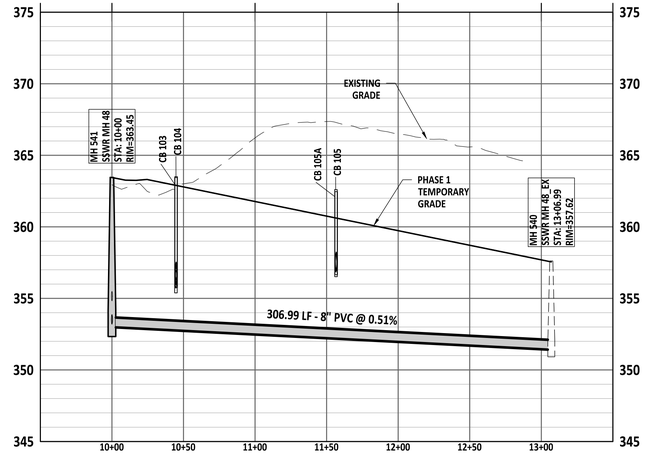


PHASE 1 OFFSITE SANITARY SEWER PLAN & PROFILE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



GENERAL NOTES:

1. **SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.**

PROJECT NUMBER = CID-25-02

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

PRELIMINARY

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

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
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2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

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MERRITT RESERVE

EROSION CONTROL PLAN & PROFILE PHASE 1

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PLAN & PROFILE PHASE 1

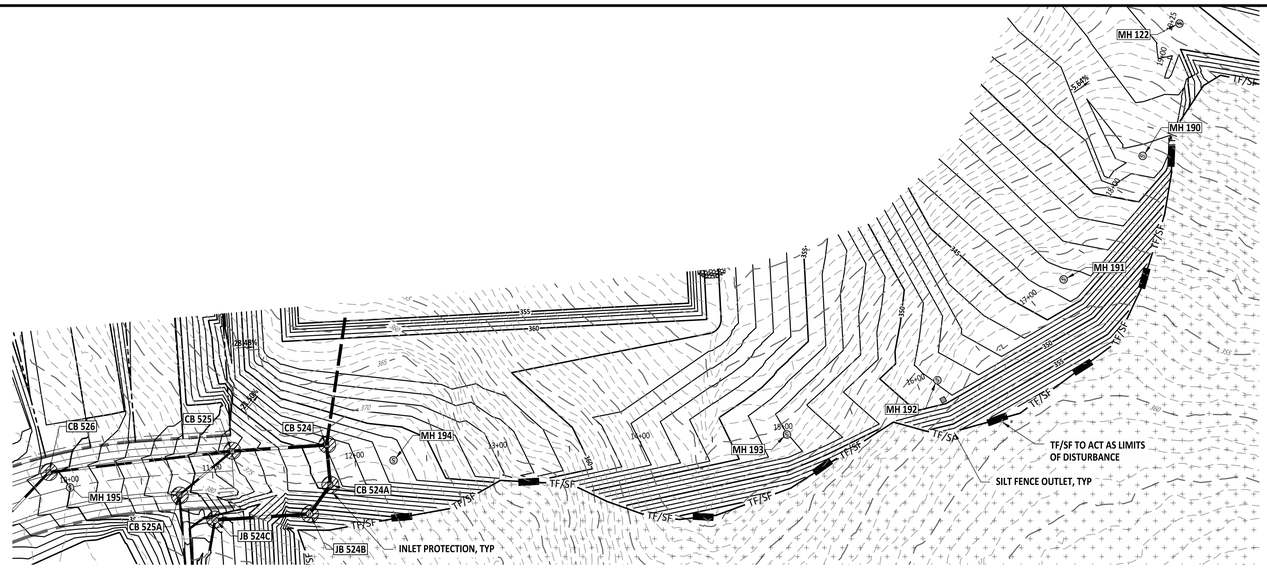
SHEET NO.:

CE-143

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

Z:\Jobs\23-0004 Merritt Property (BRP,Inc)_Working Dwgs\Sheets\Construction Set\16. CE-140-143 PLAN & PROFILE PHASE 1.dwg

2025-09-03



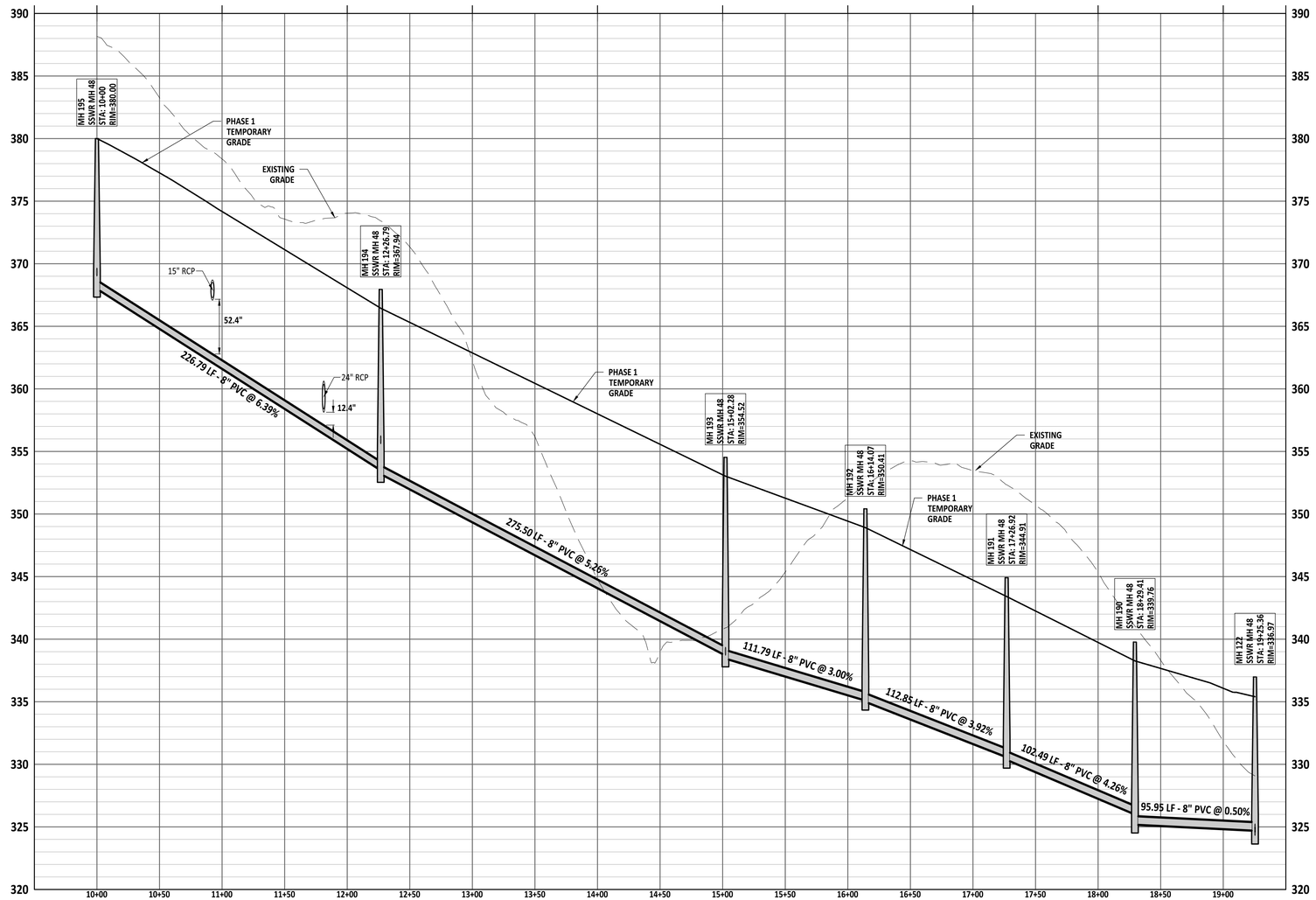
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PHASE 1 OFFSITE SANITARY SEWER PLAN & PROFILE



GENERAL NOTES:

1. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

PROJECT NUMBER = CID-25-02

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

PRELIMINARY

NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN

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MERRITT RESERVE

EROSION CONTROL PLAN & PROFILE PHASE 1

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PLAN & PROFILE PHASE 1

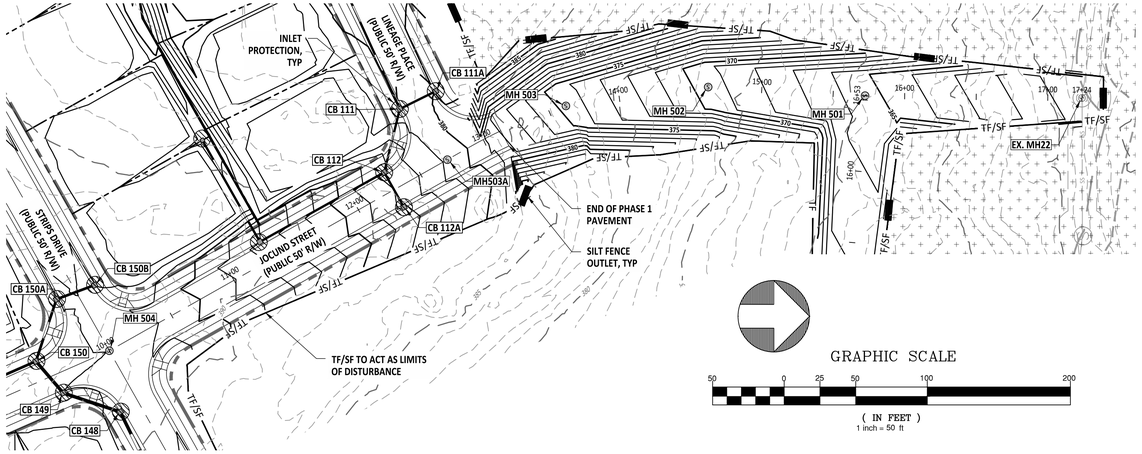
SHEET NO.:

CE-144

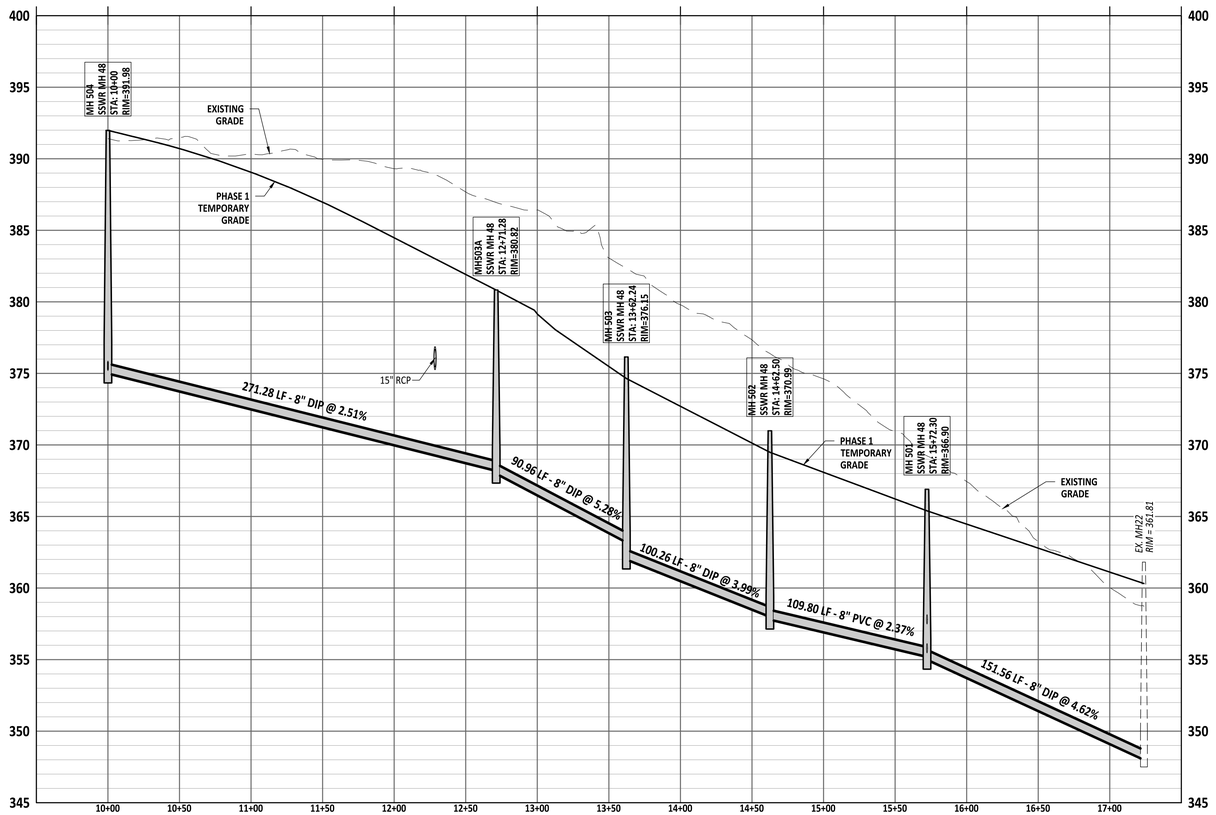
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

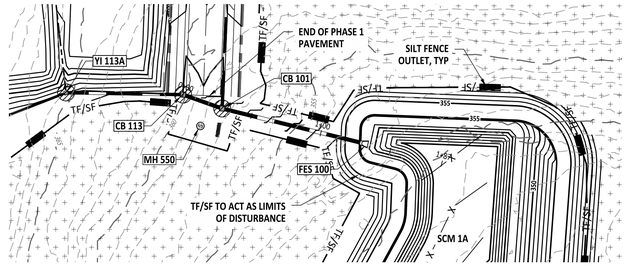
Z:\Jobs\23-0004 Merritt Property BRP\Dwgs_Working Dwgs\Sheets\Construction Set\17 CE-144 PLAN & PROFILE PHASE 1.dwg

2025-09-03



PHASE 1 OFFSITE SANITARY SEWER PLAN & PROFILE





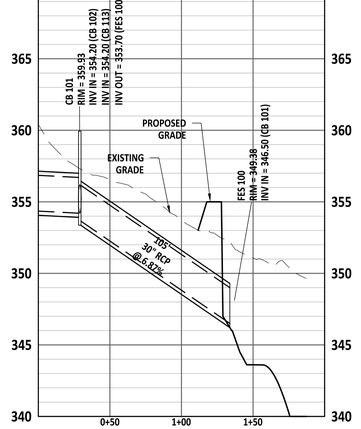
PHASE 1 OFFSITE STORM PLAN & PROFILE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft



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PROJECT NUMBER = CID-25-02

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4020 Westchase Boulevard, Suite 450
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PRELIMINARY

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2	08-05-25	SECOND WAKE COUNTY SUBMITTAL

STIPULATION FOR REUSE

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MERRITT RESERVE

EROSION CONTROL PLAN & PROFILE PHASE 1

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL PLAN & PROFILE PHASE 1

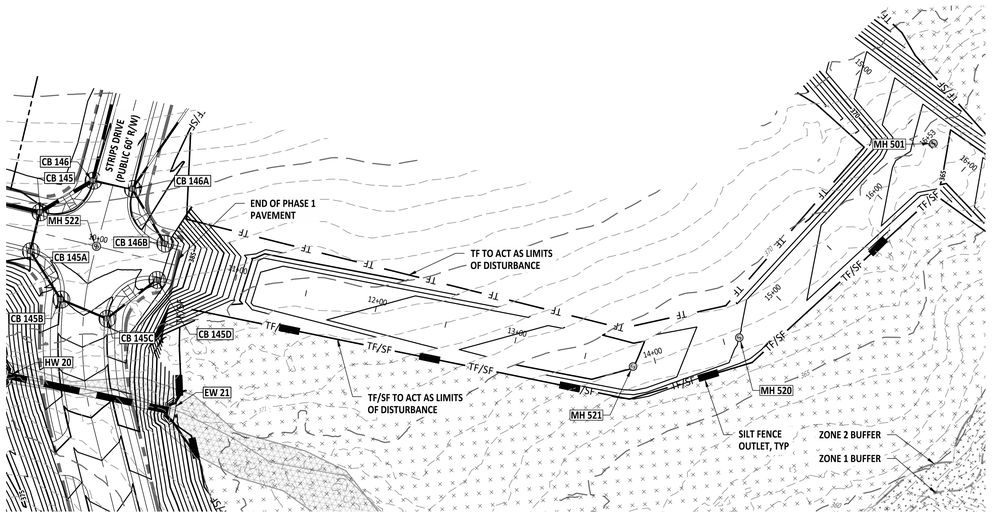
SHEET NO.:

CE-145

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

Z:\Jobs\23-0004 Merritt Property (BRO)\dwg_Working Dwgs\Sheets\Construction Set\17- CE-144-145 PLAN & PROFILE PHASE 1.dwg

2025-09-03

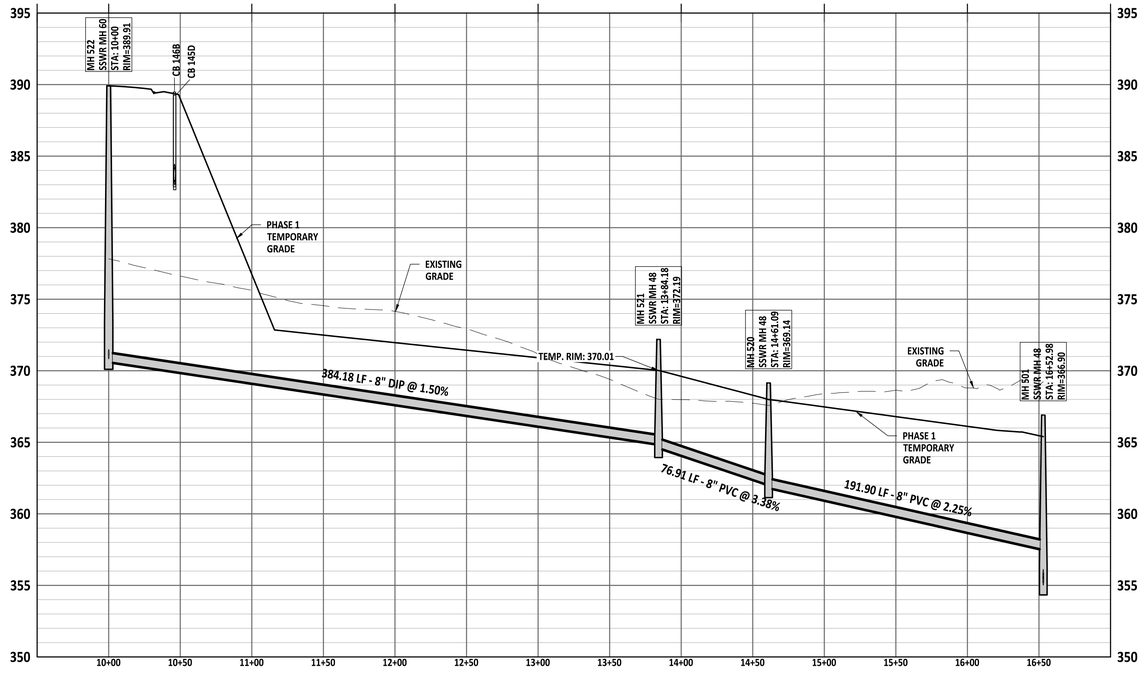


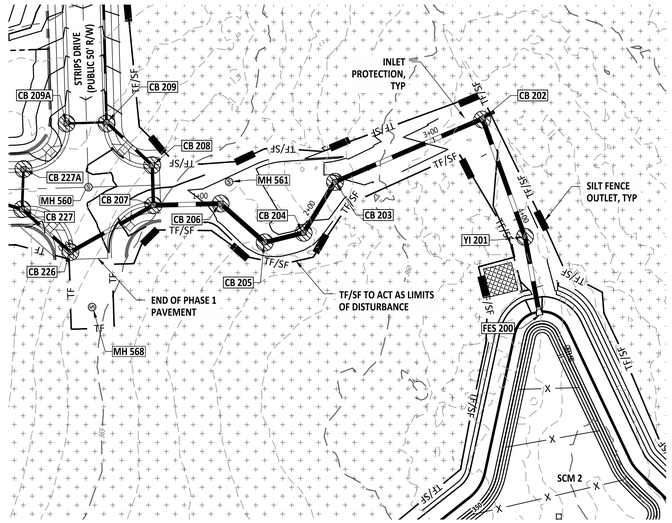
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PHASE 1 OFFSITE SANITARY SEWER PLAN & PROFILE



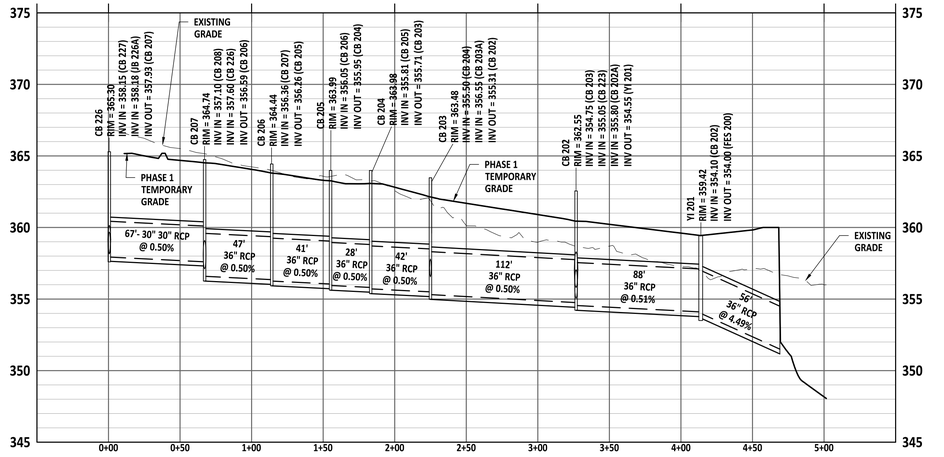


PHASE 1 OFFSITE STORM PLAN & PROFILE

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



GENERAL NOTES:
1. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

PROJECT NUMBER = CID-25-02

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

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

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

PRELIMINARY

PRELIMINARY
NOT FOR RECORDATION
DO NOT USE FOR CONSTRUCTION
JAKOB P KLEIN 36528 ENGINEER

FOR INFORMATION, ONLY

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MERRITT RESERVE

EROSION CONTROL PLAN & PROFILE PHASE 1

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
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DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

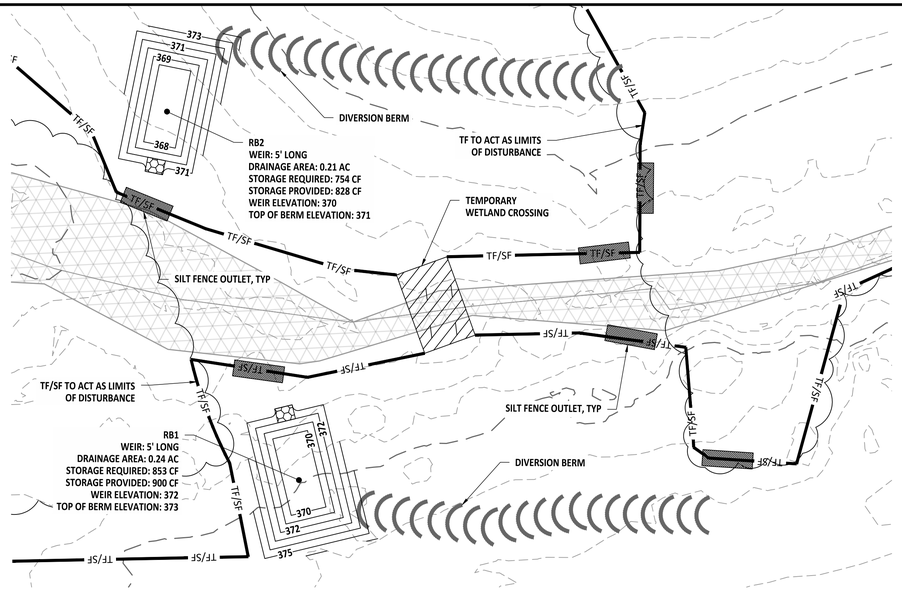
EROSION CONTROL PLAN & PROFILE PHASE 1

SHEET NO.:

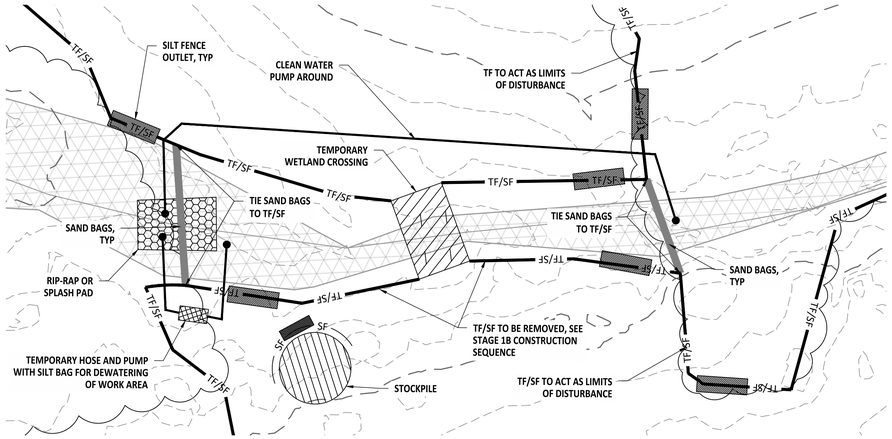
CE-146

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\17- CE-144-145 PLAN & PROFILE PHASE 1.dwg

2025-09-03



INITIAL CULVERT CROSSING FOR STRIPS DRIVE



INTERMEDIATE CULVERT CROSSING FOR STRIPS DRIVE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft

SEQUENCE FOR CULVERT CROSSING (FOR CLEAN WATER PUMP AROUND)

STAGE 1A CREEK CROSSING INSTALLATION

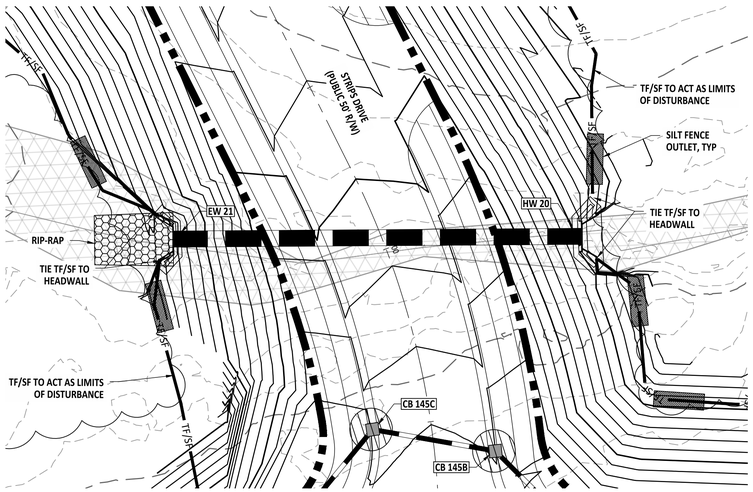
1. CONDUCT MEETING WITH WAKE COUNTY INSPECTOR PRIOR TO PROCEEDING WITH THE STREAM CROSSING CONSTRUCTION.
2. INSTALL THE BRIDGE MAT AND SILT FENCE AS SHOWN IN THE INITIAL STREAM CROSSING.
3. PLACE A TEMPORARY RIP-RAP PAD OR SPLASH PAD AT THE DOWNSTREAM END OF THE TEMPORARY HOSE TO PREVENT EROSION. CONTRACTOR IS RESPONSIBLE FOR SIZING TEMPORARY PAD.
4. DURING A PERIOD OF DRY WEATHER, ADD AN IMPERVIOUS DIKE TO THE UPSTREAM AND DOWNSTREAM ENDS OF THE STREAM CROSSING. USING A PUMP AND HOSE, PUMP THE CLEAN WATER FROM THE UPSTREAM SIDE OF THE CROSSING TO THE DOWNSTREAM SIDE OF THE CROSSING TO DIVERT FLOW AROUND THE WORK AREA.

STAGE 1B CREEK CROSSING INSTALLATION

1. OBTAIN PERMISSION FROM THE WAKE COUNTY INSPECTOR TO PROCEED WITH THIS STEP.
2. INSTALL TEMPORARY HOSE AND PUMP AND A SILT BAG TO ALLOW FOR PUMP DOWN OF THE WORK AREA. PUMPS TO BE USED AS NEEDED.
3. ONCE THE STREAM HAS BEEN PUMPED DOWN AND THE SILT FENCE HAS BEEN TIED TO THE SANDBAGS, REMOVE THE SILT FENCE AS SHOWN IN THE INTERMEDIATE STAGE
4. EXCAVATE AREA AND INSTALL PIPE WITH HEADWALLS AND DOWNSTREAM RIP-RAP AS SHOWN.
5. OBTAIN WAKE COUNTY APPROVAL OF THE PIPE INSTALLATION.

STAGE 1C CREEK CROSSING INSTALLATION

1. UPON COMPLETION OF PIPE INSTALLATION, REMOVE TEMPORARY SANDBAGS ON DOWNSTREAM END.
2. REMOVE TEMPORARY SANDBAGS ON UPSTREAM END.
3. INSTALL SILT FENCE AT THE TOE OF SLOPES AND TIE TO ENDWALLS AS SHOWN ON THIS PLAN.
4. 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.
5. COMPLETE FILL BRINGING THE AREA TO FINISHED GRADE.
6. INSTALL PAVEMENT AND FOLLOW THE SEEDING SCHEDULE FOR ALL BARE AREAS.
7. REFER TO MAIN CONSTRUCTION SEQUENCE FOR OTHER DETAILS.

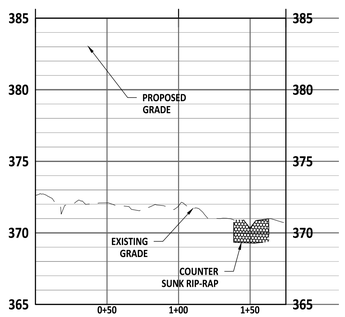


FINAL CULVERT CROSSING FOR STRIPS DRIVE

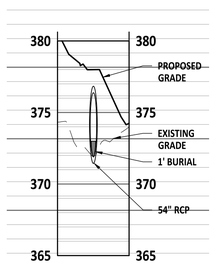
GRAPHIC SCALE

20 0 10 20 40 80

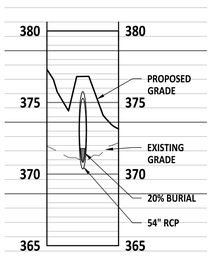
(IN FEET)
1 inch = 20 ft



CULVERT CROSS SECTION



CULVERT CROSSING SECTION VIEW (UPSTREAM END)



CULVERT CROSSING SECTION VIEW (DOWNSTREAM END)

Horizontal 50 0 50 100 200
Vertical 5 0 5 10 20

Horizontal Scale 1 inch = 50 ft.
Vertical Scale 1 inch = 5 ft.

PROJECT NUMBER = CID-25-02

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

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PRELIMINARY

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN

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EROSION CONTROL CULVERT CROSSING PHASE 1

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	JK
DRAWN BY:	DH/MA/LL
DATE:	08/04/2025

SHEET TITLE:

EROSION CONTROL CULVERT CROSSING PHASE 1

SHEET NO.: **CE-147**

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

Z:\Job\23-0004 Merritt Property @RO\dwg_Working Dwgs\Sheets\Construction Set\18. CE-147 CULVERT CROSSING PHASE 1.dwg

2025-09-03