

SITE PLAN LEGEND	
PROPOSED LOT LINES	
RIGHT OF WAY	
CENTERLINE	
CURB AND GUTTER	
10 X 70 SIGHT TRIANGLE	
SCM LOCATIONS	
SETBACKS	
PASSIVE OPEN SPACE PROVIDED: 28.07 ACRES TOTAL REQUIRED: 10.45 ACRES	
ACTIVE OPEN SPACE PROVIDED: 7.31 ACRES TOTAL REQUIRED: 10.45 ACRES	
30' STREETSCAPE BUFFER	
PERIMETER BUFFER	
NEUSE RIVER BUFFER	
EXISTING WETLAND	

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

North Carolina 811 it's the law

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

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

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JAKOB P. KLEIN
NORTH CAROLINA
SEAL
036528
ENGINEER
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MERRITT RESERVE

SITE PLAN

ROLESVILLE RD
WAKE COUNTY NC 27312

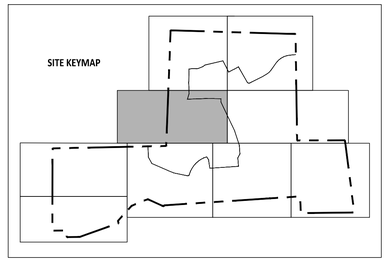
JOB NUMBER:	23-0004
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DATE:	05/01/2025

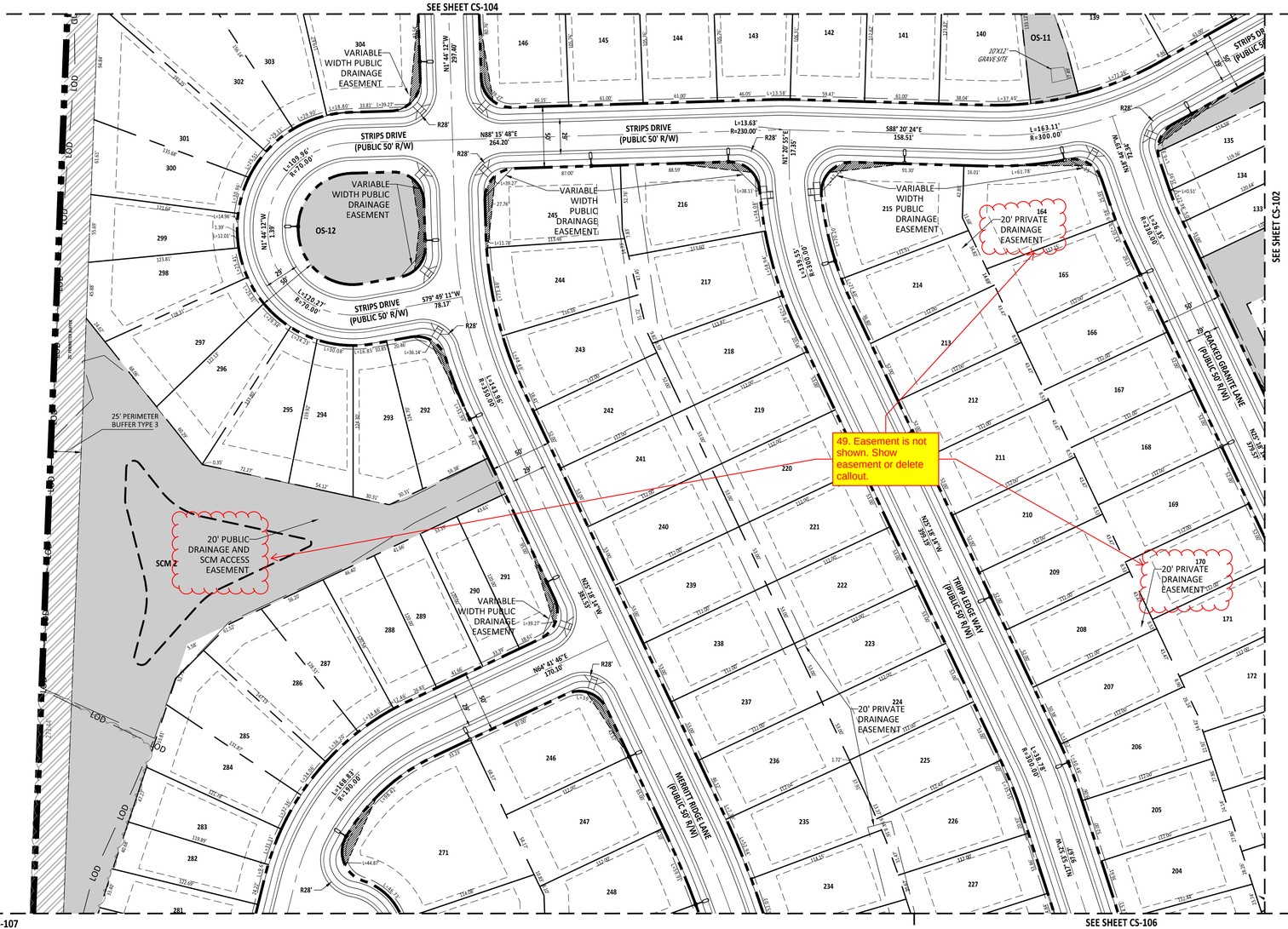
SHEET TITLE:

SITE PLAN

SHEET NO.:
CS-104

Z:\Jobs\23-0004 Merritt Property @RDP\wp_Working Dwgs\Sheets\Construction Set\10 CS-104 Site Plan ISO-Sub0.dwg
2025-05-01





SITE PLAN LEGEND	
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SCM LOCATIONS	
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EXISTING WETLAND	

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

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SITE PLAN

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
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DATE:	05/01/2025

SHEET TITLE:

SITE PLAN

SHEET NO.:

CS-105

,L, LLC

SEE SHEET CU-105

SEE SHEET CU-102

SEE SHEET CU-107

SEE SHEET CU-101

49. Easement is not shown. Show easement or delete callout.

20' PRIVATE DRAINAGE EASEMENT

VARIABLE WIDTH PUBLIC DRAINAGE EASEMENT

MERRITT RESERVE DRIVE (PUBLIC 50' R/W)

JOCUND STREET (PUBLIC 60' R/W)

DAVIS ROCK PLACE (PUBLIC 50' R/W)

STONE RESERVE WAY (PUBLIC 50' R/W)

FOWLER ROAD (PUBLIC 110' R/W)

OS-1

OS-2

OS-5

SCM 4

30' COR UTILITY EASEMENT

20' PUBLIC DRAINAGE EASEMENT

30' STREETSCAPE BUFFER

30' STREET BUFFER

50' PERIMETER BUFFER

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

LOD

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

SITE KEYMAP

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EXISTING WETLAND	

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MERRITT RESERVE

SITE PLAN (50 SCALE)

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
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DATE:	05/01/2025

SHEET TITLE:

SITE PLAN (50 SCALE)

SHEET NO.:

CS-106

PROJECT NUMBER = PSP-24-07

North Carolina 811 811

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

Z:\Jobs\23-0004 Merritt Property 889\Revit_Working Dwgs\Sheets\Construction Set\23_CS-104-106 Site Plan (50 Scale).dwg

2025-05-01

SEE SHEET CS-105

SEE SHEET CS-108

SEE SHEET CS-109

SEE SHEET CS-106

COMMERCIAL/RETAIL
4.27 AC

SCM 5A

SCM 6B

SCM 5C

OS-16

OS-15

25' PERIMETER BUFFER TYPE 2

30' STREET BUFFER

30' SANITARY SEWER PUBLIC EASEMENT

20' PUBLIC DRAINAGE EASEMENT

20' PUBLIC DRAINAGE & SCM ACCESS EASEMENT

30' PUBLIC DRAINAGE EASEMENT

20' PUBLIC DRAINAGE AND SCM ACCESS EASEMENT

VARIABLE WIDTH PUBLIC DRAINAGE EASEMENT

20' PRIVATE DRAINAGE EASEMENT

29. Move the leader to point to the easement.

49. Easement is not shown. Show easement or delete callout.

SPLIT GRANITE COURT (PUBLIC 50' R/W)

MERRITT RESERVE DRIVE (PUBLIC 50' R/W)

DAVIS ROCK PLACE (PUBLIC 50' R/W)

FOWLER ROAD (PUBLIC 110' R/W)

BRIDGE LANE (PUBLIC 50' R/W)

CREEK

PROPE

N28° 57' 12"W 38.23'

SITE KEYMAP

SITE PLAN LEGEND	
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NEUSE RIVER BUFFER	
EXISTING WETLAND	

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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Raleigh, NC 27607
919-469-1101

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ENGINEER
JAKOB P. KLEIN

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MERRITT RESERVE

SITE PLAN

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
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DATE:	05/01/2025

SHEET TITLE:

SITE PLAN

SHEET NO.:

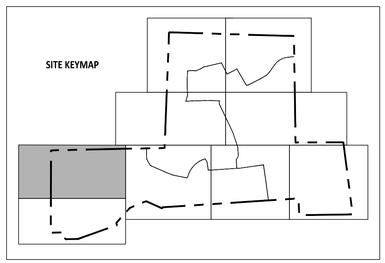
CS-107

North 811 Carolina
*** 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 @RDU\Dwg_Working Dwgs\Sheets\Construction Set\34. CS-107-109 Site Plan (50 Scale).dwg
2025-05-01



SITE KEYMAP



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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SITE PLAN

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WAKE COUNTY NC 27312

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DATE:	05/01/2025

SHEET TITLE:

SITE PLAN

SHEET NO.:

CS-108

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

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2025-05-01

SEE SHEET CS-108

SEE SHEET CS-107

NEUSE RIPARIAN BUFFER (ZONE 1)

NEUSE RIPARIAN BUFFER (ZONE 2)

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

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

0.1% ANNUAL FEMA FLOODWAY

WETLAND (TYP)

EXISTING 20' SEWER EASEMENT M. 1992 PG. 658

30' SANITARY SEWER PUBLIC EASEMENT

PROPOSED 30' STREETSCAPE BUFFER

ROAD CONSTRUCTION TO END AND TIE TO EXISTING AT 3:1 SLOPE

S69° 43' 59"W 683.01'

DEEP CANYON COURT (PUBLIC 50' R/W)

SUTTON RIDGE COURT (PUBLIC 50' R/W)

FETCHING PLACE (PUBLIC 60' R/W)

N69° 43' 59"E 511.61'

L=95.53' R=230.00'

N65° 56' 09"E 12.06'

R37.5'

L=36.43' R=230.00'

N78° 48' 29"E 178.29'

L=127.91' R=380.00'

N15° 34' 25"W 29.16'

N28° 57' 12"W 38.23'

VARIABLE WIDTH DRAINAGE EASEMENT

3' COR UTILITY PUBLIC EASEMENT

20' PUBLIC DRAINAGE AND SCM ACCESS EASEMENT

20' PUBLIC DRAINAGE EASEMENT

VARIABLE WIDTH CONSTRUCTION EASEMENT

30' SANITARY SEWER PUBLIC EASEMENT

40' GREENWAY/SANITARY EASEMENT

OS-18

SCM 6A

ROAD CONSTRUCTION TO END, GRADE DOWN AT 3:1 SLOPE TO THE GREENWAY/SANITARY EASEMENT AND THEN A RETAINING WALL.

SWAMP

POND

439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477

SITE KEYMAP

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

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MERRITT RESERVE

SITE PLAN (50 SCALE)

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
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DATE:	05/01/2025

SHEET TITLE:

SITE PLAN (50 SCALE)

SHEET NO.:

CS-109

North 811 Carolina 811 It's the Law
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North Carolina 811
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Remote Ticket Entry
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2025-05-01

OPEN SPACE USE TABLE

AREA	AC	USE DESCRIPTION
OS-1	2.21	SCM, ACCESS EASEMENT
OS-2	0.58	GREEN SPACE
OS-3	0.39	GREEN SPACE
OS-4	3.57	SCM, ACCESS EASEMENT
OS-5	0.08	GREEN SPACE
OS-6	2.10	AMENITY CENTER
OS-7	0.52	GREEN SPACE
OS-8	1.54	NATURAL AREA
OS-9	0.92	GREEN SPACE
OS-10	5.15	NATURAL AREA
OS-11	0.08	GREEN SPACE
OS-12	0.19	GREEN SPACE
OS-13	5.40	SCM, ACCESS EASEMENT
OS-14	0.28	GREEN SPACE
OS-15	4.31	NATURAL AREA
OS-16	2.05	GOVERNMENTAL USE
OS-17	3.65	SCM, ACCESS EASEMENT
OS-18	4.63	SCM, ACCESS EASEMENT, GOVERNMENTAL USE

TOTAL OPEN SPACE PROVIDED: 37.65 AC

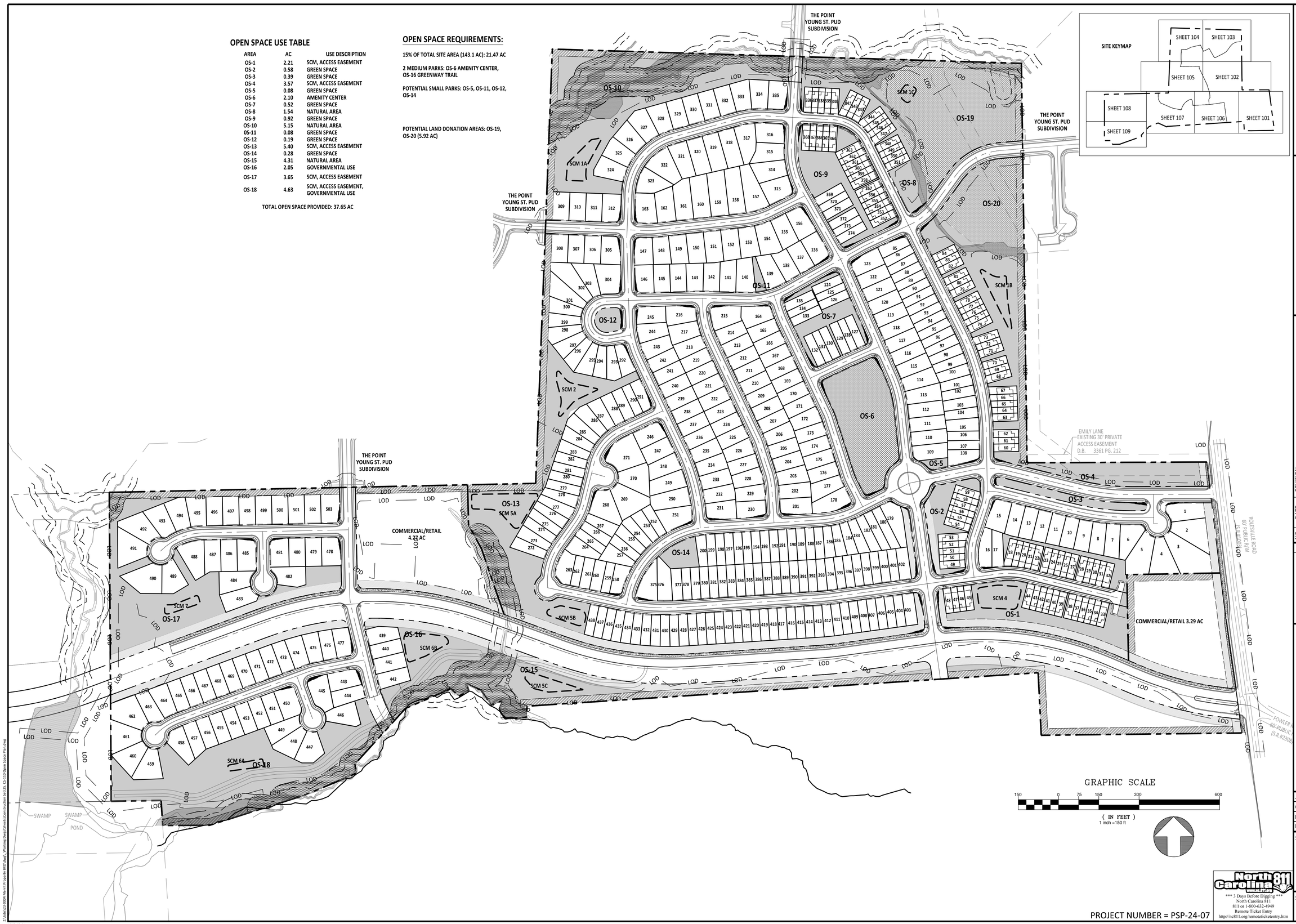
OPEN SPACE REQUIREMENTS:

15% OF TOTAL SITE AREA (143.1 AC): 21.47 AC

2 MEDIUM PARKS: OS-6 AMENITY CENTER, OS-16 GREENWAY TRAIL

POTENTIAL SMALL PARKS: OS-5, OS-11, OS-12, OS-14

POTENTIAL LAND DONATION AREAS: OS-19, OS-20 (5.92 AC)



SITE KEYMAP

GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)
1 inch =150 ft

PROJECT NUMBER = PSP-24-07

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Raleigh, NC 27607
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MERRITT RESERVE
OPEN SPACE PLAN
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
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DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

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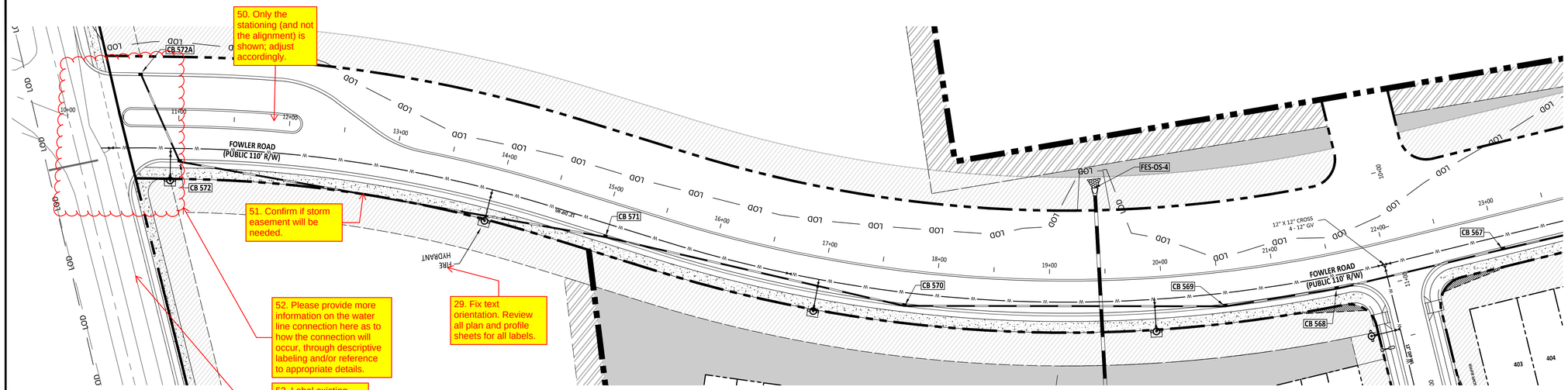
OPEN SPACE PLAN

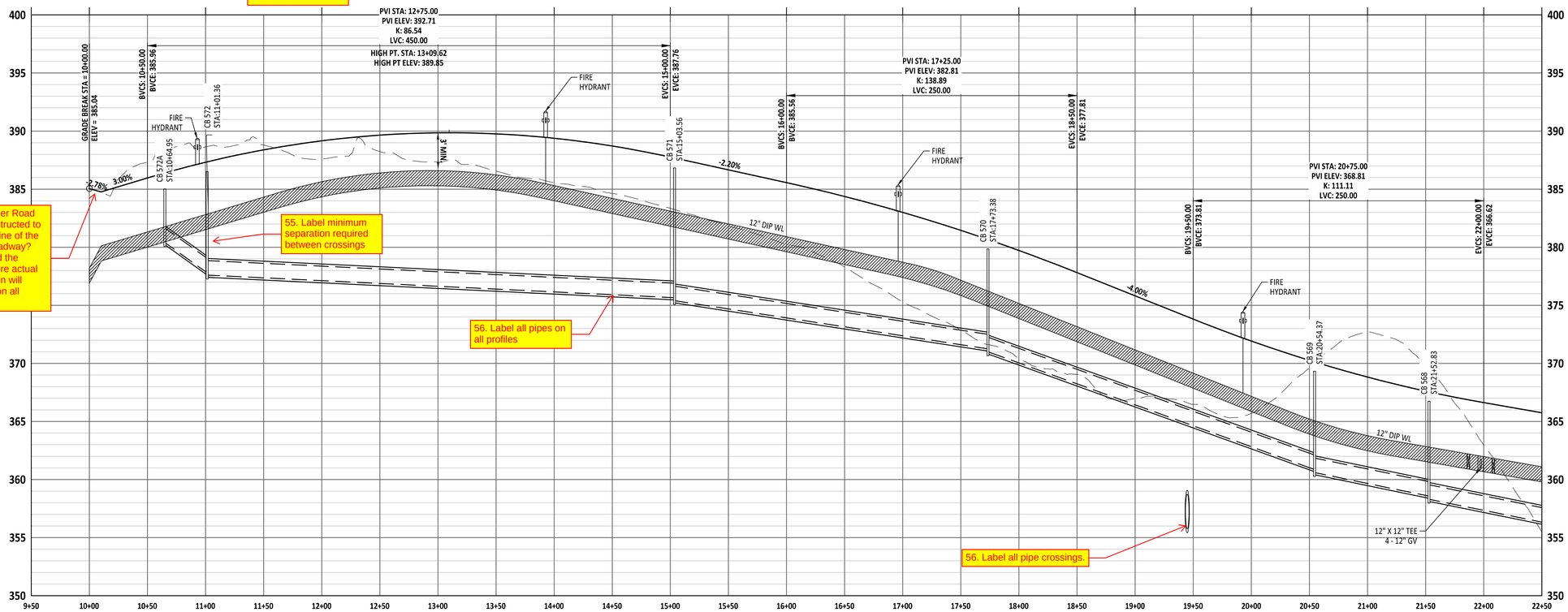
SHEET NO.: CS-110

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Remote Ticket Entry
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2025-05-01





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

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Raleigh, NC 27607
919-469-1101

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

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NORTH CAROLINA 36528 ENGINEER JAKOB P. KLEE

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1	02-03-25	FIRST REVISION SET

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MERRITT RESERVE

FOWLER ROAD PLAN & PROFILE

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
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DATE:	05/01/2025

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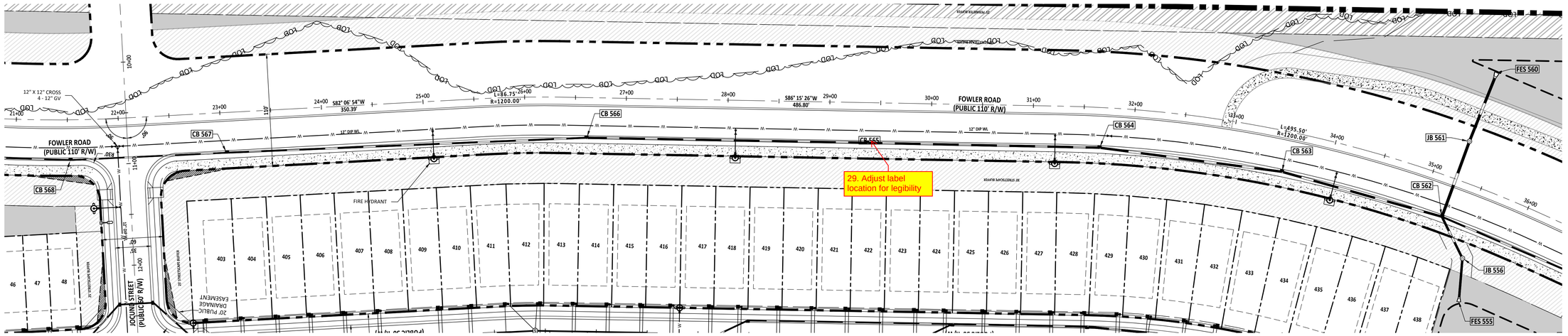
FOWLER ROAD PLAN & PROFILE

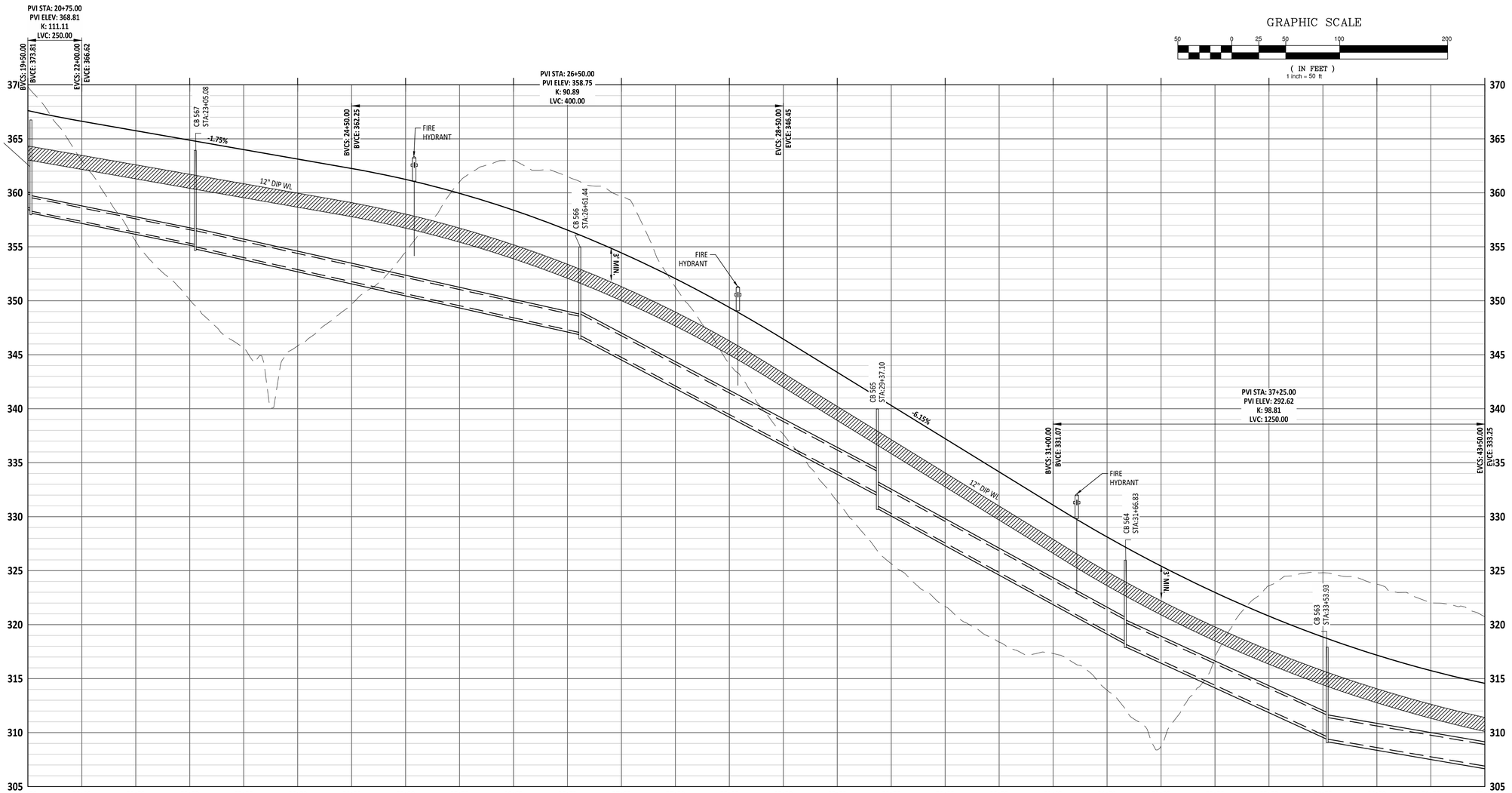
SHEET NO.: **CS-200**

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 (BRD)\Dwg_Working Dwg\Streets\Construction Set\SS_CS-200 FOWLER ROAD PLAN & PROFILE.dwg

2025-05-01





PROJECT NUMBER = PSP-24-07

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

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C-3881

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SEAL
036528
JACOB P. KLEIN

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MERRITT RESERVE

FOWLER ROAD PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

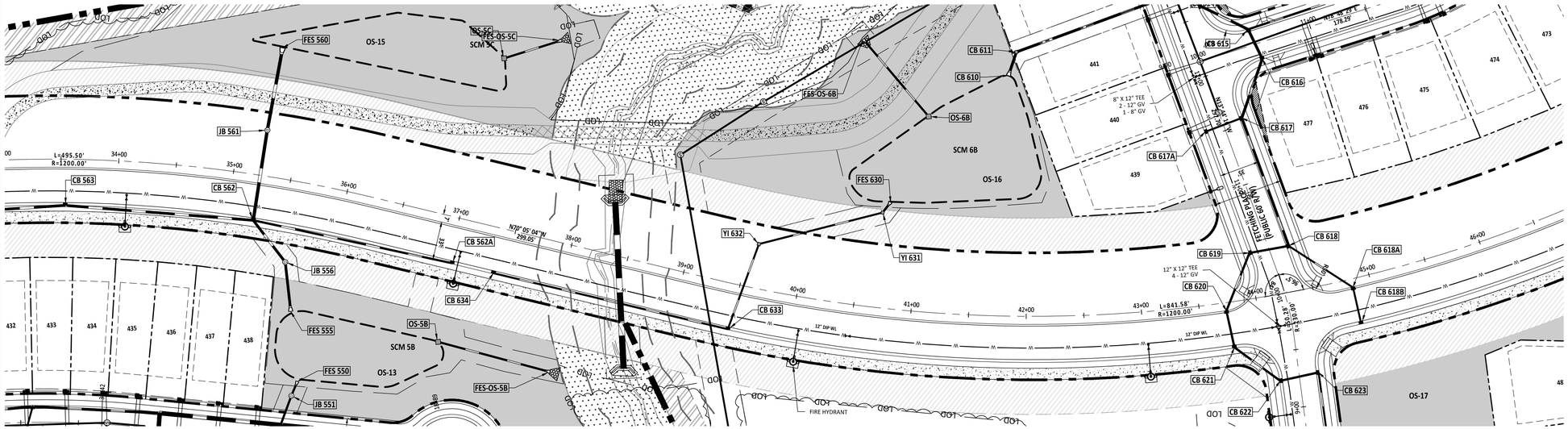
FOWLER ROAD PLAN & PROFILE

SHEET NO.:

CS-201

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 (BRT)\Dwg_Working Dwgs\Sheets\Construction Set\SK_CS-200 FOWLER ROAD PLAN & PROFILE.dwg
2025-05-01

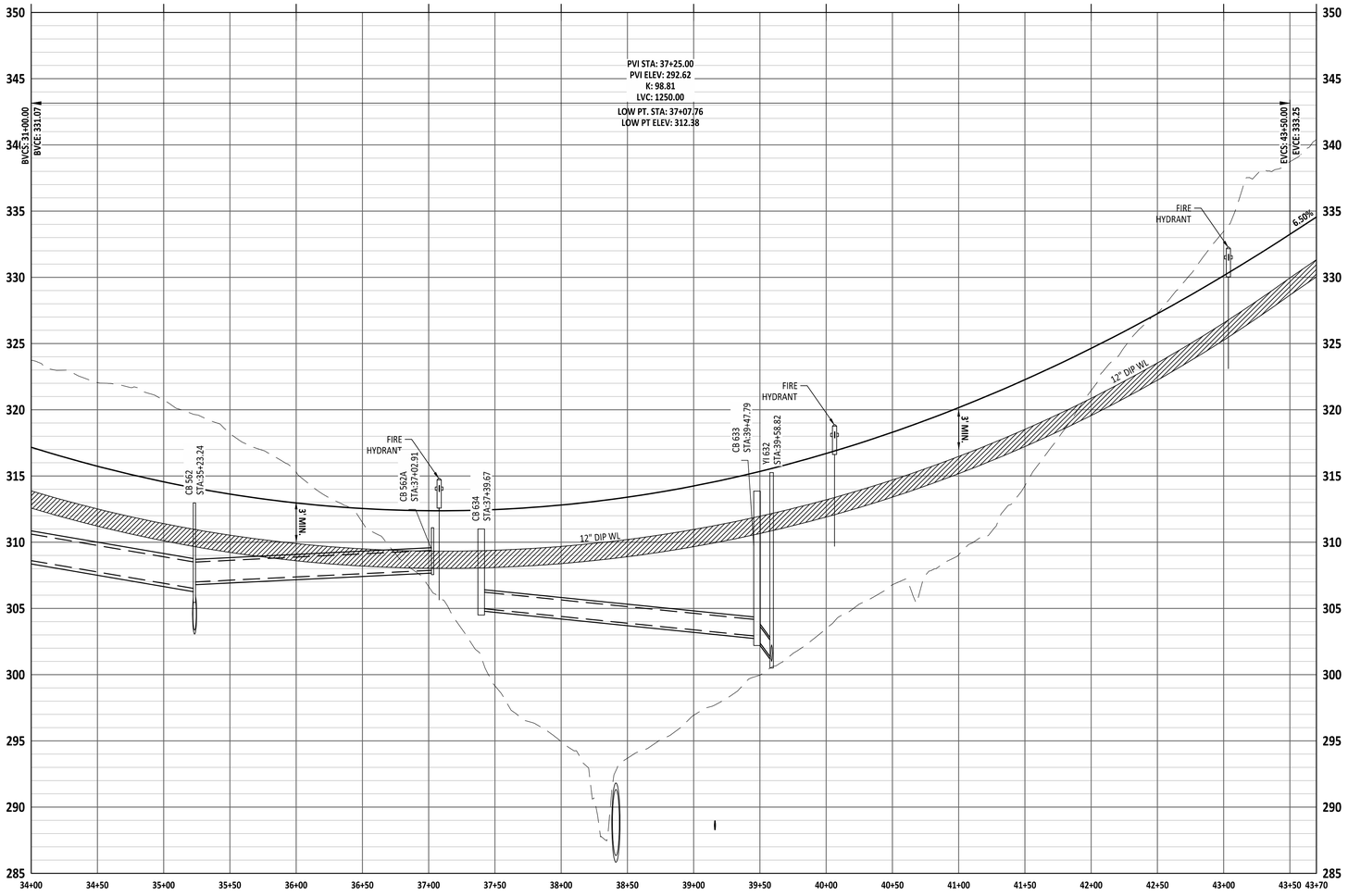




GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



PROJECT NUMBER = PSP-24-07

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
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NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

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FOWLER ROAD
PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

FOWLER ROAD PLAN & PROFILE

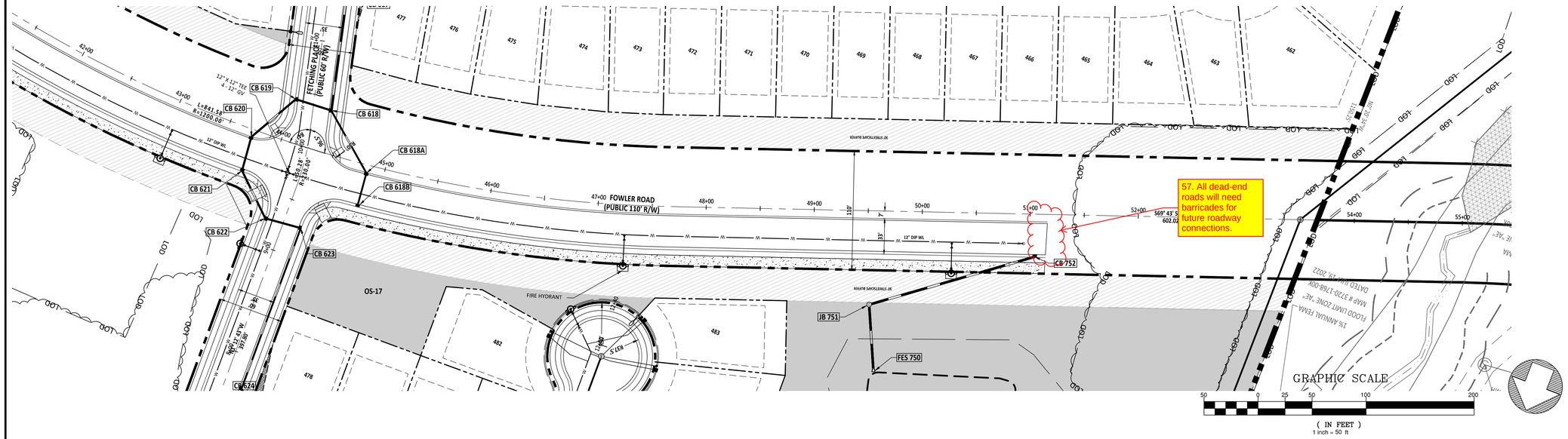
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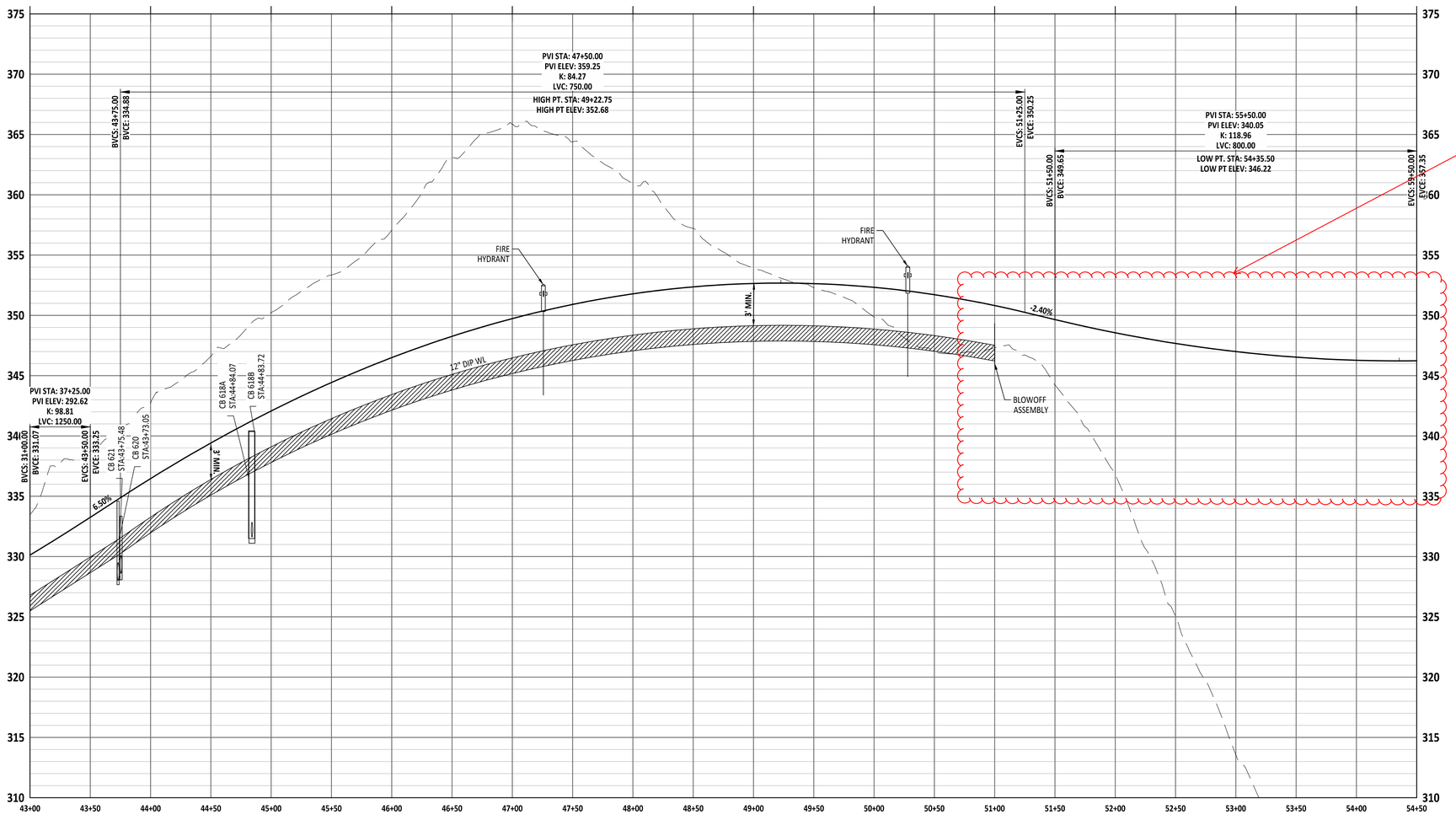
CS-202

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 Merritt Property (BRD)\dwg_Working Dwgs\Sheets\Construction Set\36. CS-200 FOWLER ROAD PLAN & PROFILE.dwg

2025-05-01





PROJECT NUMBER = PSP-24-07

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American Engineering Associates - Southeast, P.A.
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36528
JAKOB P. KLEIN

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MERRITT RESERVE
FOWLER ROAD PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

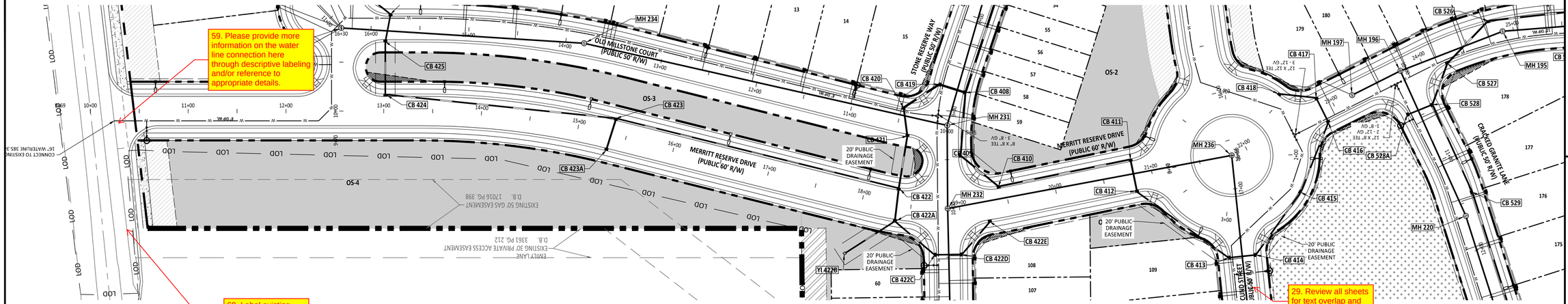
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CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

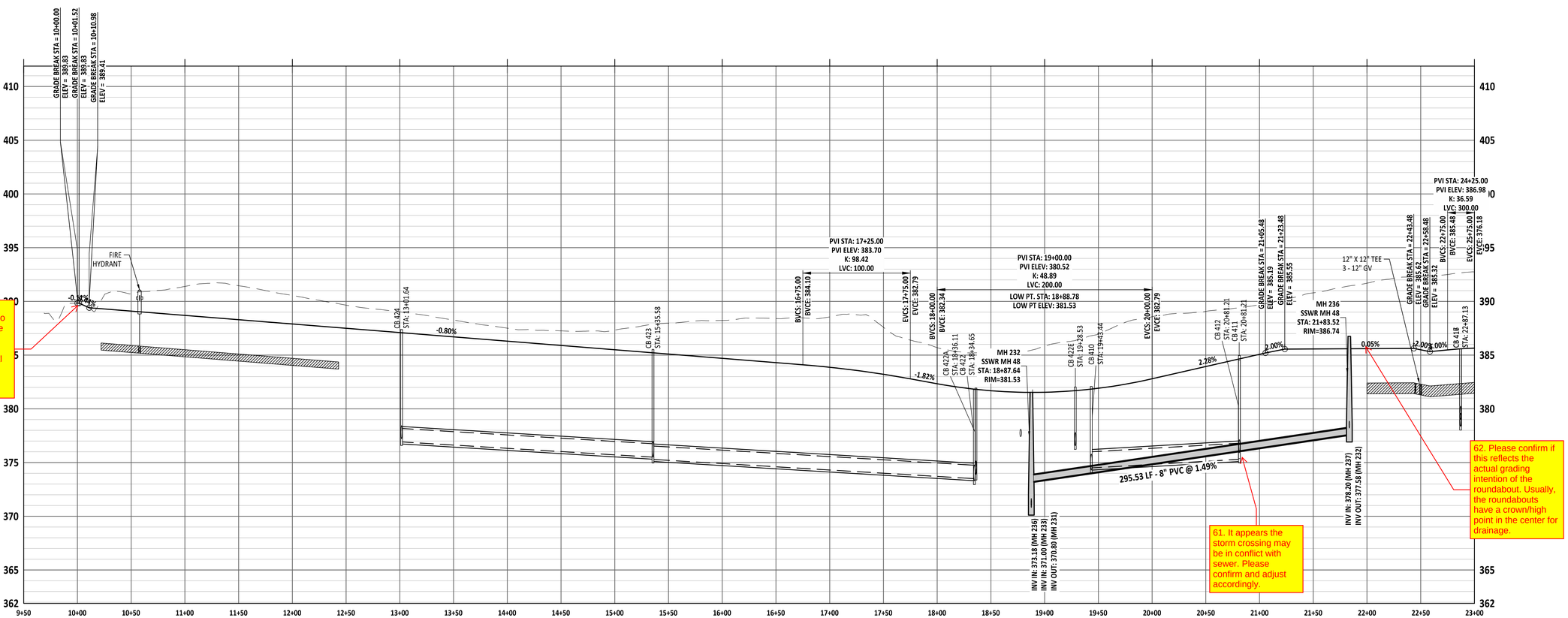
SHEET TITLE:
FOWLER ROAD PLAN & PROFILE

SHEET NO.:
CS-203

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)\Engl_Working Dwgs\Sheets\Construction Set\CS_CS-320 FOWLER ROAD PLAN & PROFILE.dwg
2025-05-01





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
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Raleigh, NC 27607
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MERRITT RESERVE

MERRITT RESERVE DR PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

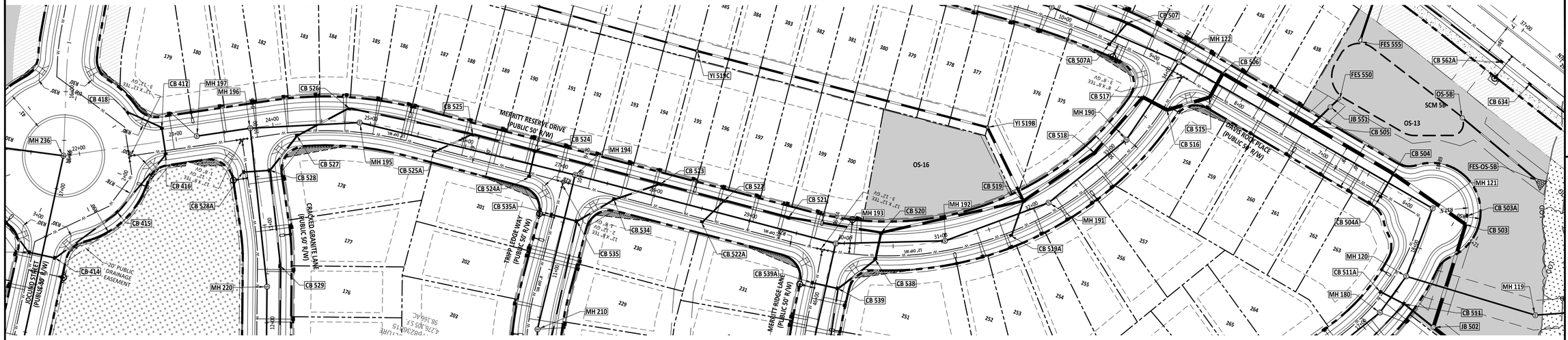
SHEET TITLE: **MERRITT RESERVE DR PLAN & PROFILE**

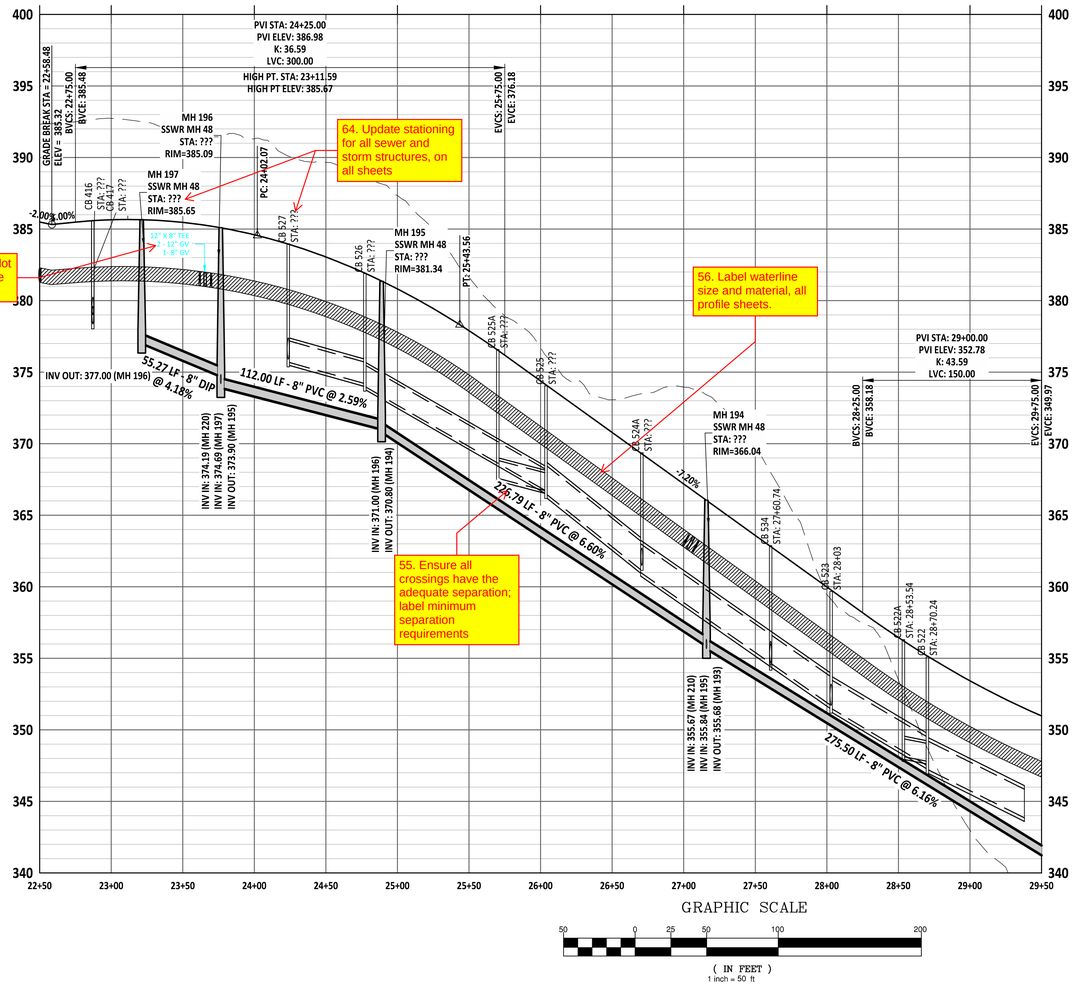
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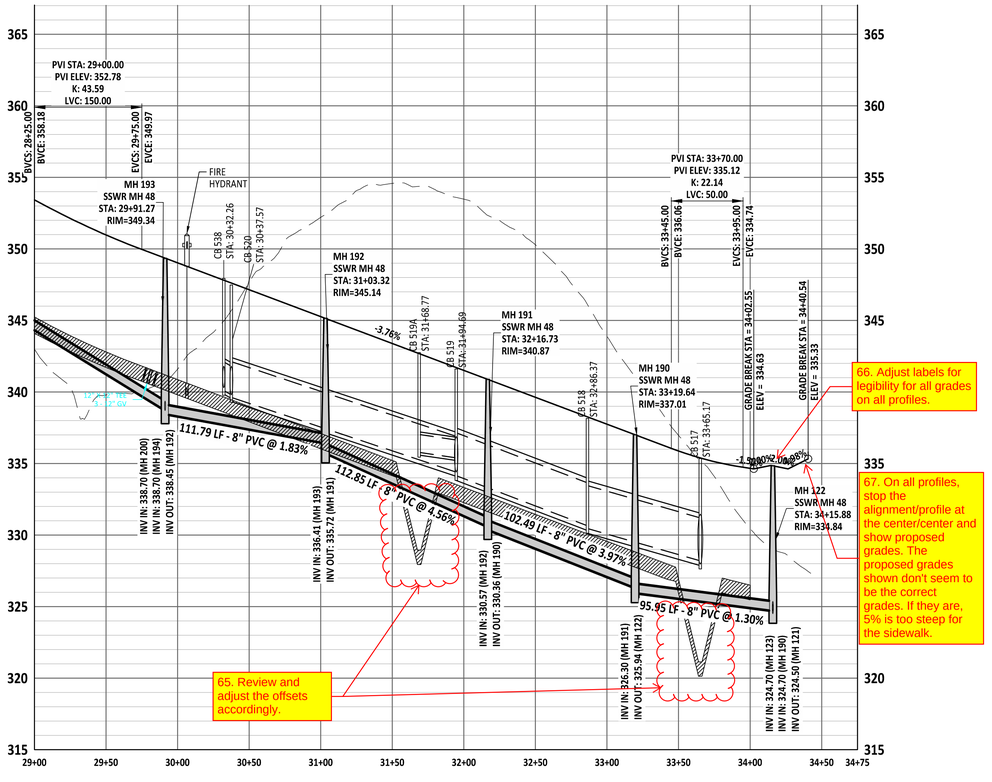
North Carolina 811 811 It's the Law!
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merrit Property (BRD)\dwg_Working Dwg\(5)Civils\(Construction Set)\37- CS-210 MERRITT RESERVE DR PLAN & PROFILE.dwg

2025-05-01







PROJECT NUMBER = PSP-24-07

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

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MERRITT RESERVE
MERRITT RESERVE DR PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

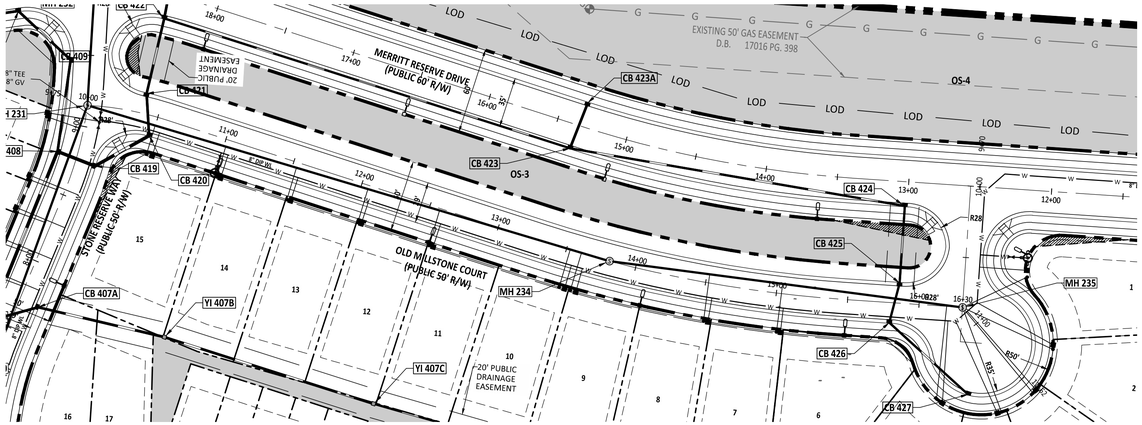
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CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

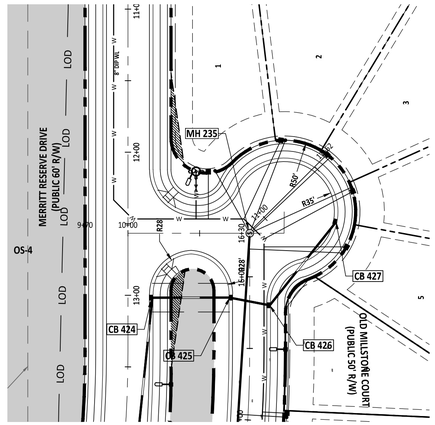
SHEET TITLE:
MERRITT RESERVE DR PLAN & PROFILE

SHEET NO.:
CS-211

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

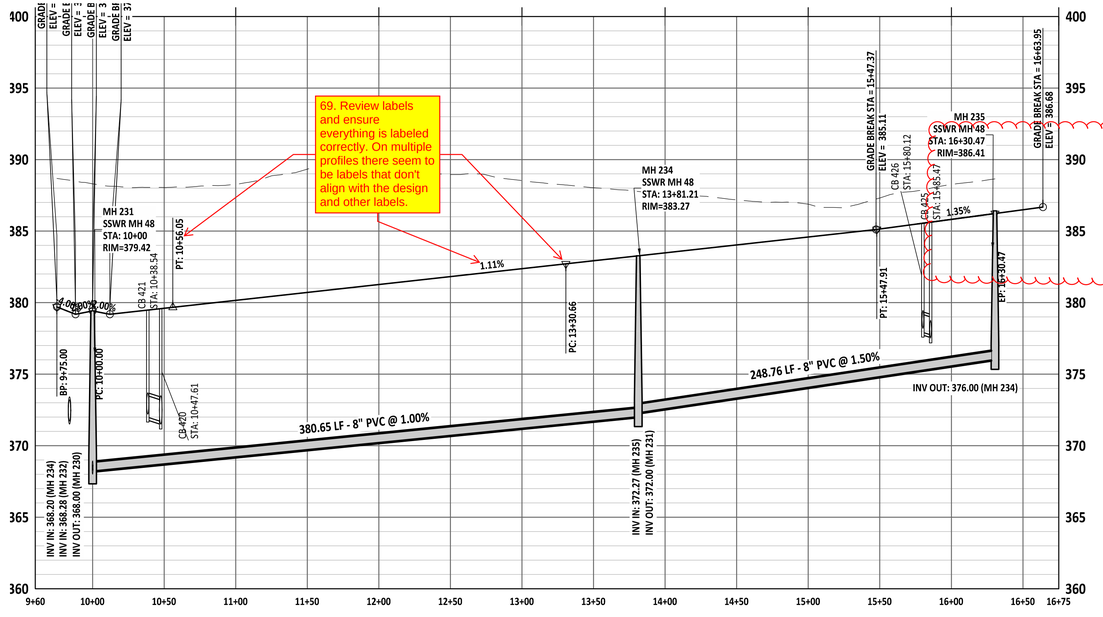
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2025-05-01





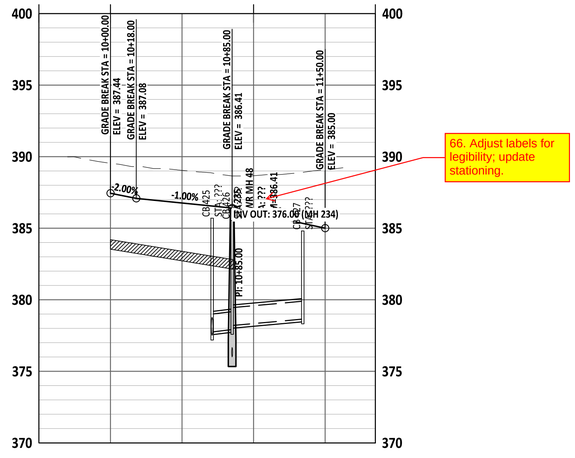
68. It would be helpful, specifically when the plan view has multiple roads shown, to add a label for which roadway the profile is for. Some profiles already have this; for consistency, add to all profiles.

29. Cut off text. Adjust accordingly.



69. Review labels and ensure everything is labeled correctly. On multiple profiles there seem to be labels that don't align with the design and other labels.

70. Confirm that Station 16+63.95 is the end of the alignment where it ties into Merritt Reserve Drive.



66. Adjust labels for legibility; update stationing.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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

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

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MERRITT RESERVE
OLD MILLSTONE COURT
PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

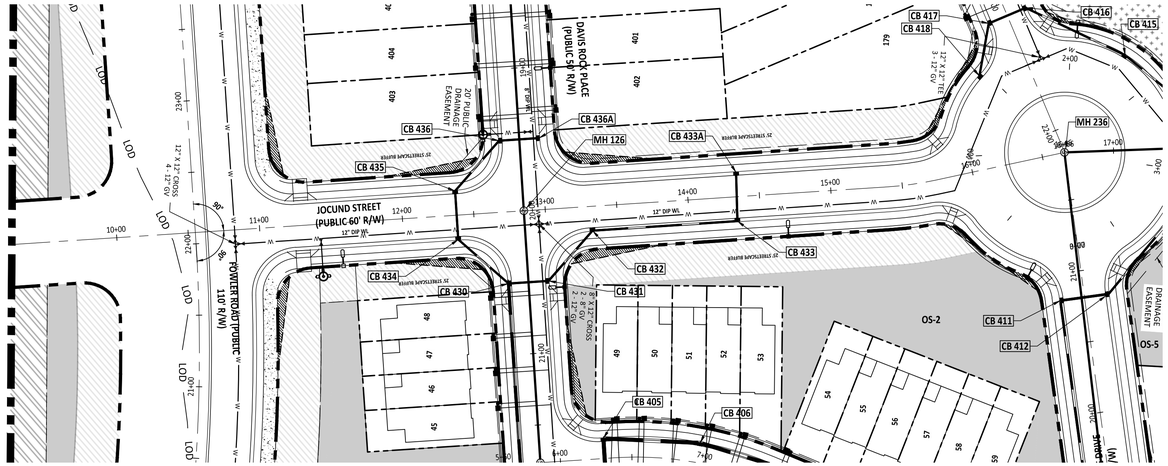
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

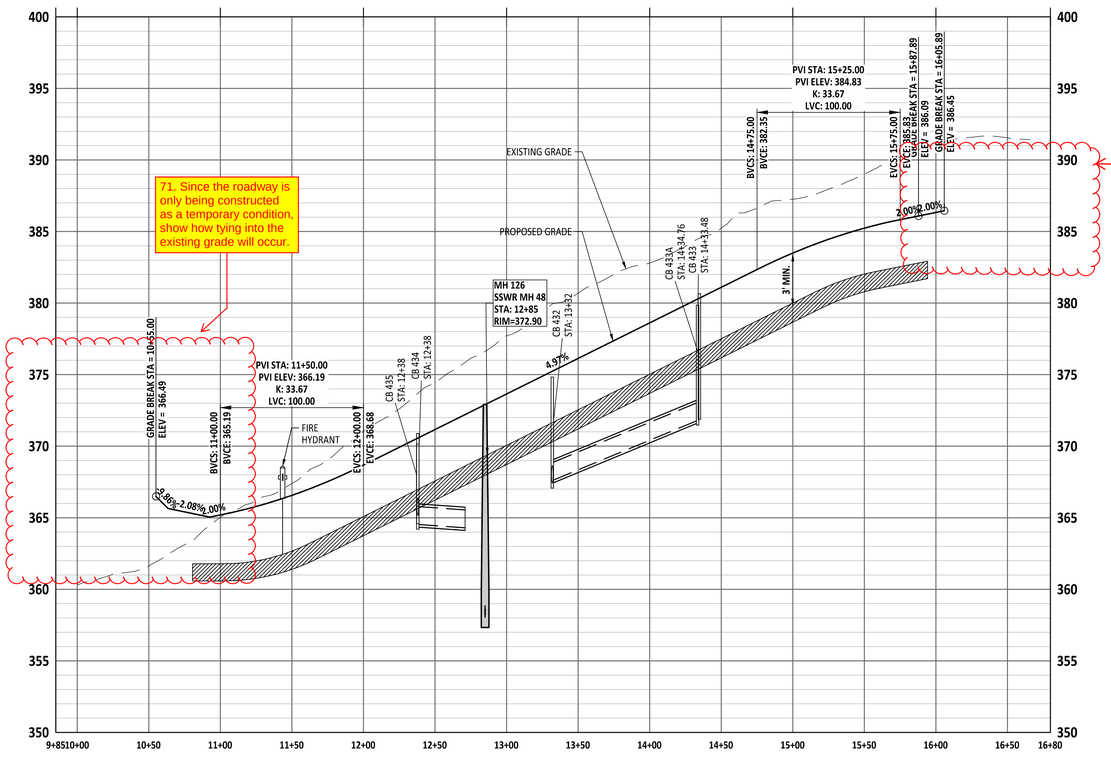
SHEET TITLE:
OLD MILLSTONE COURT PLAN & PROFILE

SHEET NO.:
CS-212

North Carolina 811 811.ncl.gov
*** 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\37- CS-210 MERRITT RESERVE DR PLAN & PROFILE.dwg
2025-05-01





71. Since the roadway is only being constructed as a temporary condition, show how tying into the existing grade will occur.

72. The profile ends here but picks up on Sheet CS-221 at station 17+25.89. Please fill in the missing profile for the stretch of alignment between Station 16+05.89 and Station 17+25.89 or provide a separate profile/design for the roundabout.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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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36528
ENGINEER
JAKOB P. KLEM

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MERRITT RESERVE

JOCUND STREET PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
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DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

JOCUND STREET PLAN & PROFILE

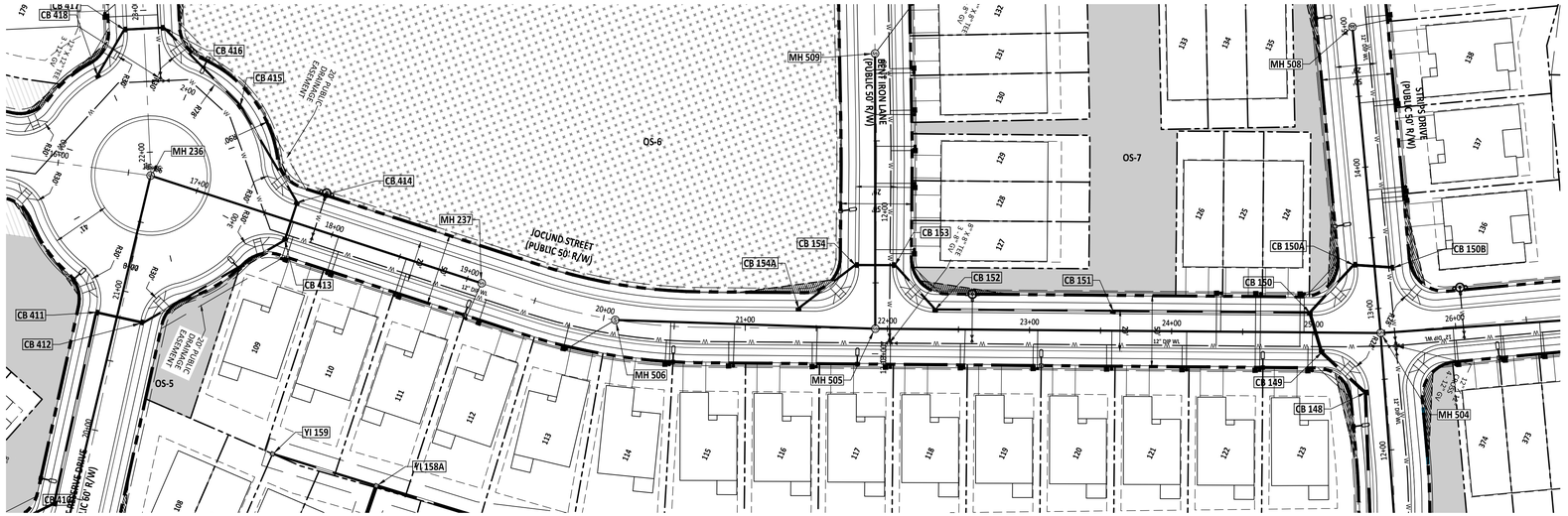
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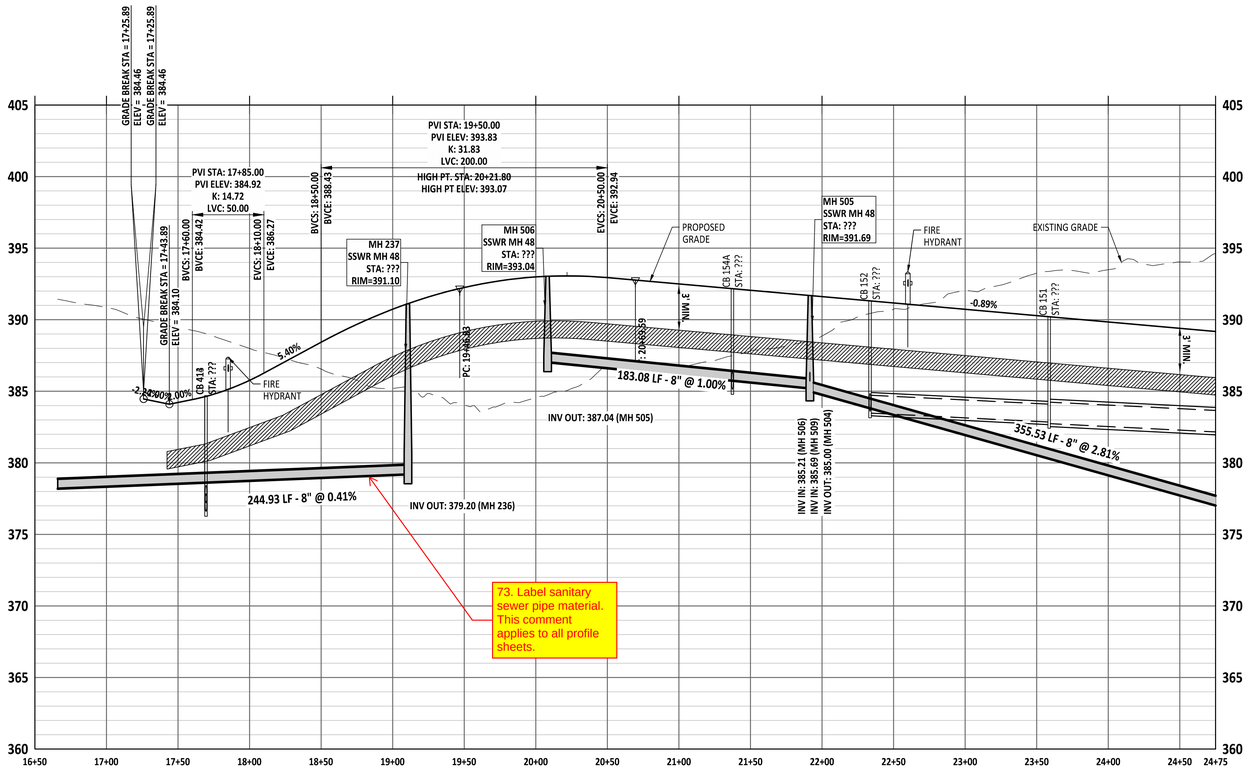
CS-220

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 BRP\Dwg_Working Dwgs\Sheets\Construction Set\SB. CS-220 JOCUND STREET PLAN & PROFILE.dwg

2025-05-01





73. Label sanitary sewer pipe material. This comment applies to all profile sheets.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

AMERICAN Engineering

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Raleigh, NC 27607
919-469-1101

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MERRITT RESERVE

JOCUND STREET PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

JOCUND STREET PLAN & PROFILE

SHEET NO.:

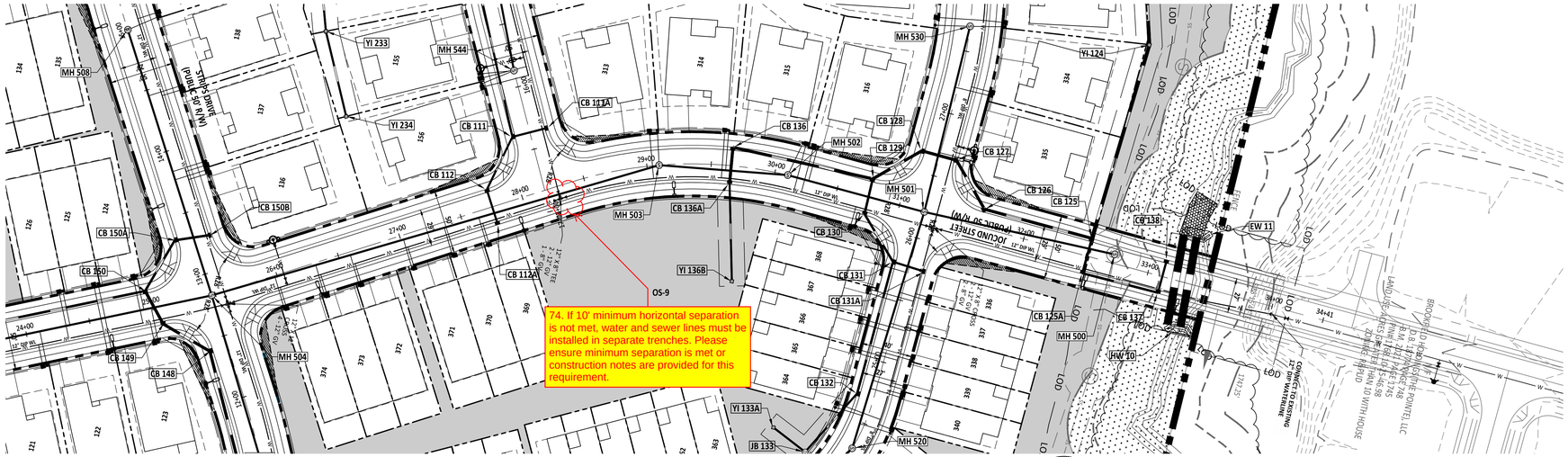
CS-221

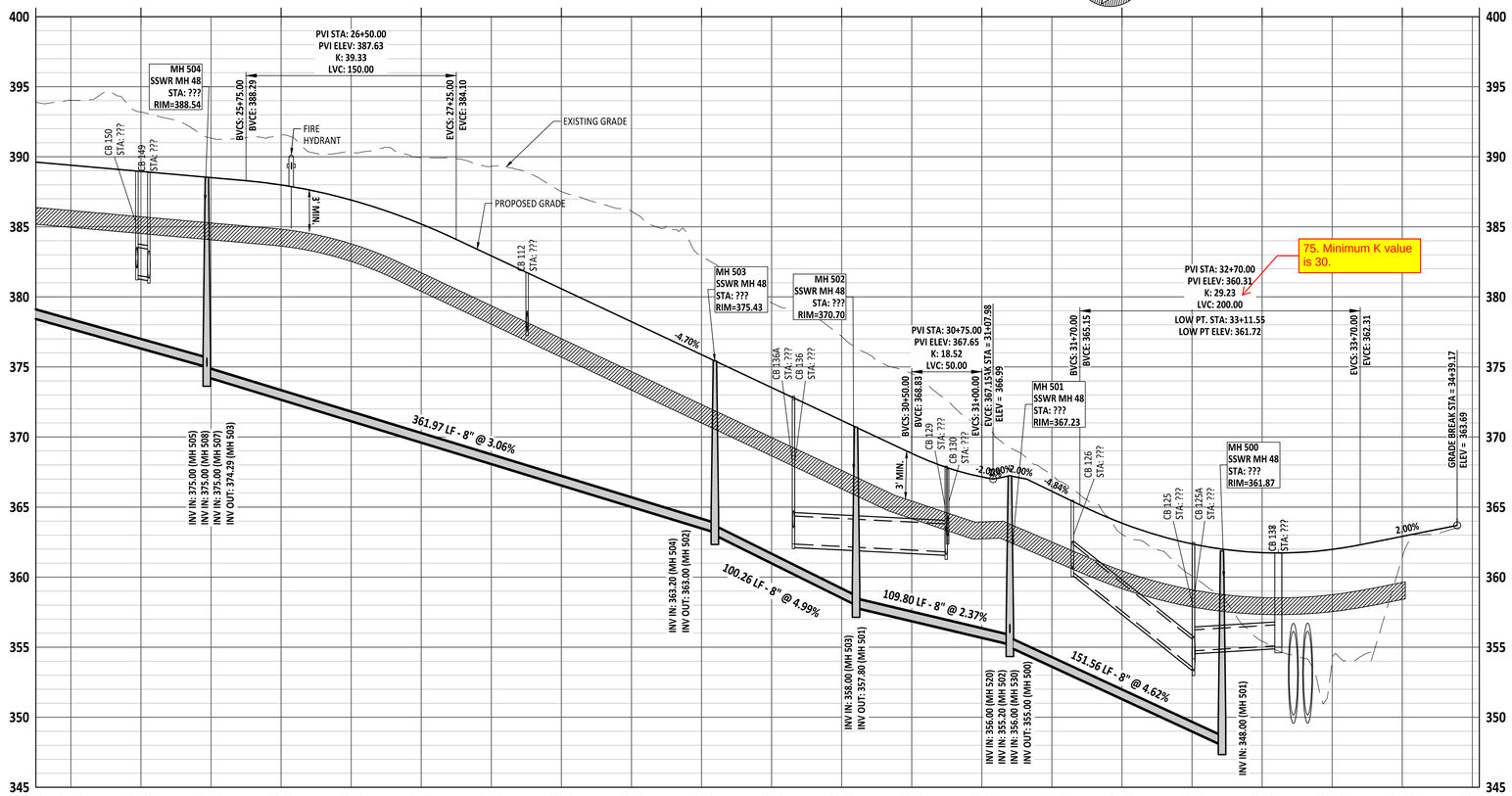
North Carolina 811

*** 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)\Arch_ Working Drags\Sheets\Construction Set\SR CS-220 JOCUND STREET PLAN & PROFILE.dwg

2025-05-01





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

AMERICAN Engineering
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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. KLEIN

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JOCUND STREET PLAN & PROFILE

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

JOCUND STREET PLAN & PROFILE

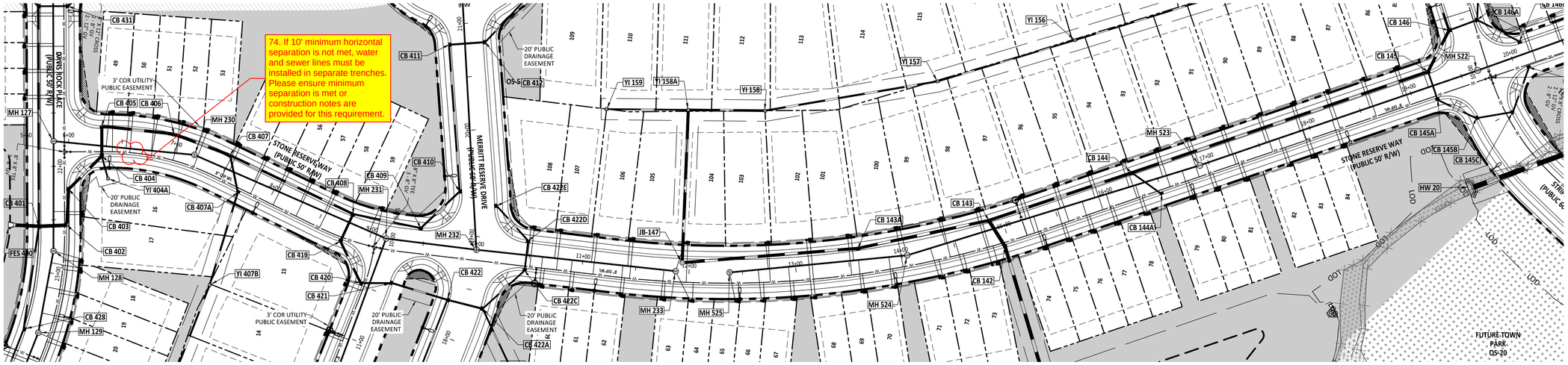
SHEET NO.:

CS-222

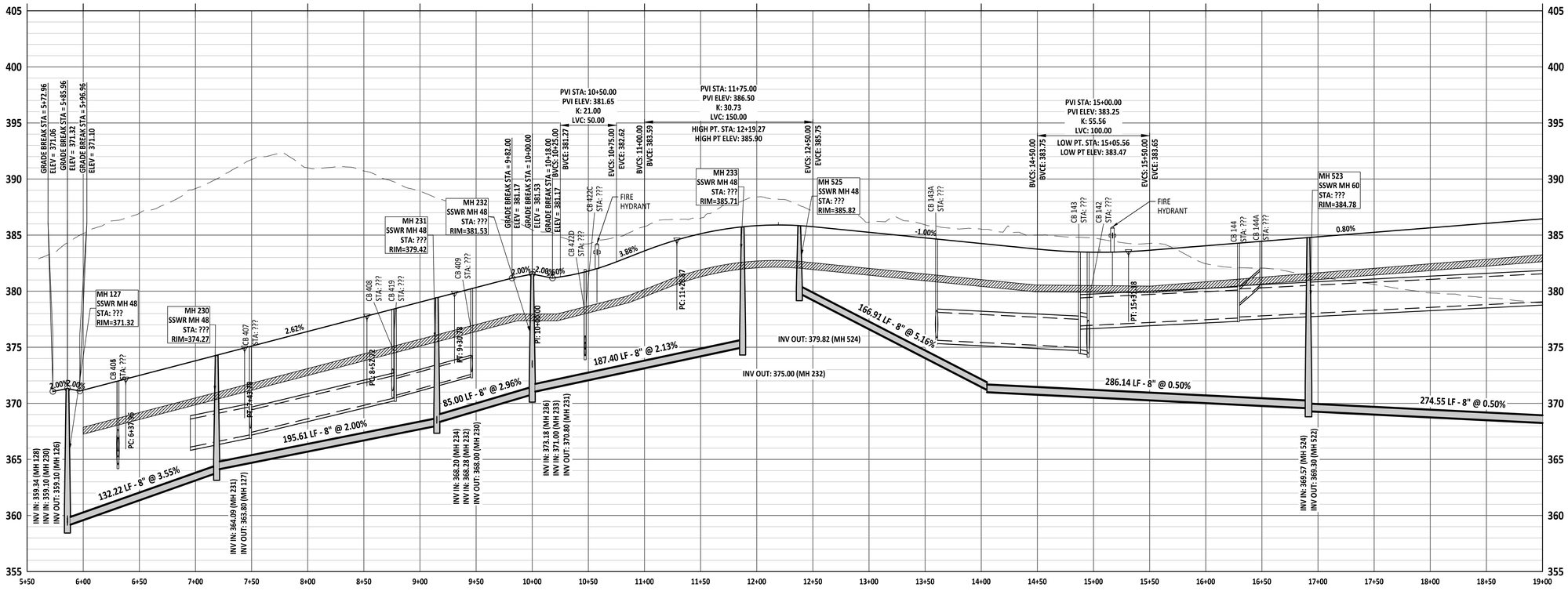
North Carolina 811 Before You Dig

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

2-Jobs\23-0004 Merritt Property BRT\Plan_Working Dwgs\Sheet\Construction Set\38_CS-220 JOCUND STREET PLAN & PROFILE.dwg
2025-05-01



STONE RESERVE WAY



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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-3861 CERTIFICATE OF AUTHORIZATION

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

NO.	DATE	REVISION:
1	02-03-25	FIRST REVISION SET

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MERRITT RESERVE
STONE RESERVE WAY
PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

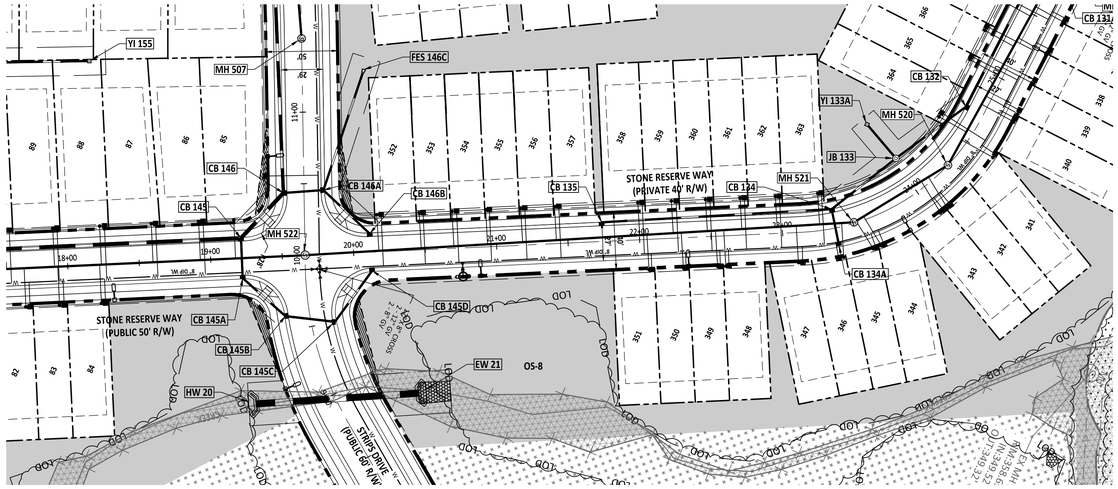
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

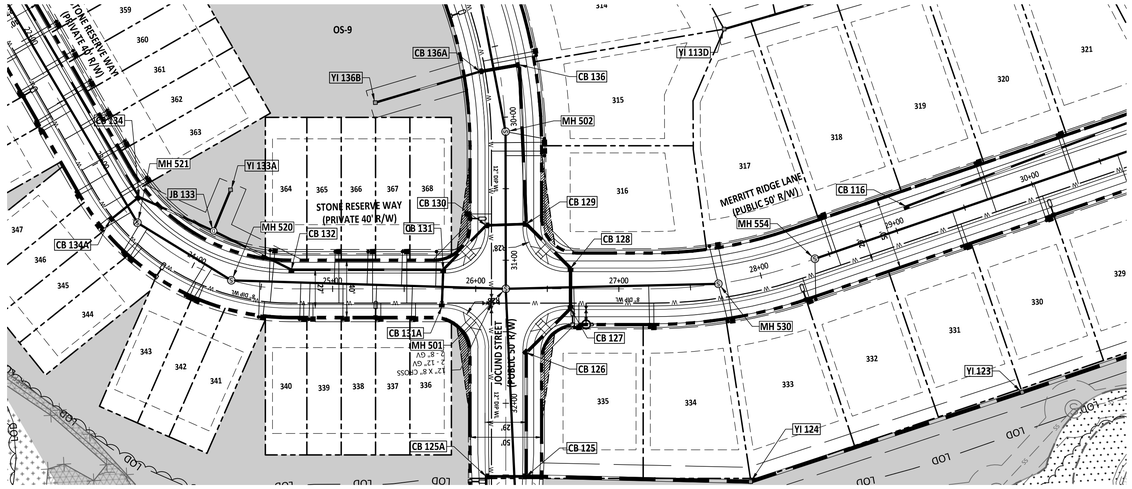
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STONE RESERVE WAY PLAN & PROFILE

SHEET NO.:
CS-230

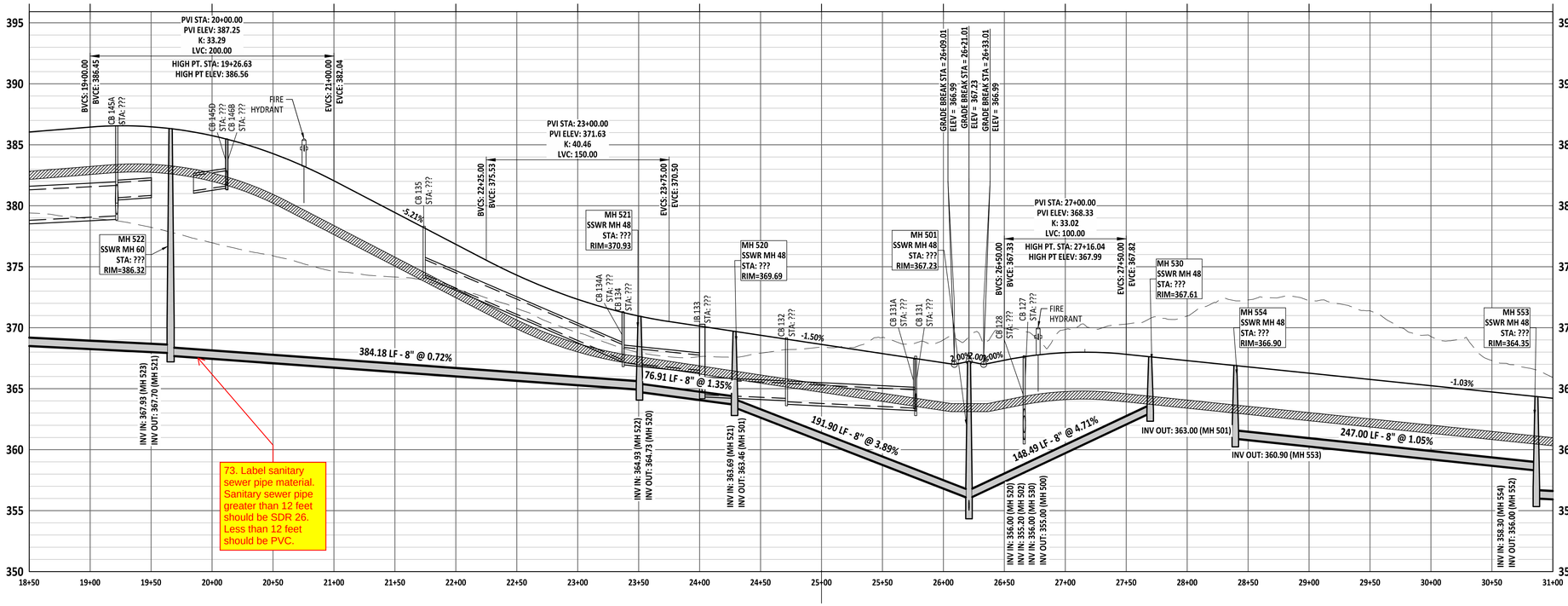
North Carolina 811 811 It's the Law
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merrit Property (BRT)\Dwg_Working Dwgs\Sheets\Construction Set\CS_230-STONE RESERVE WAY PLAN & PROFILE.dwg
2025-05-01





STONE RESERVE WAY



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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-3861 CERTIFICATE OF AUTHORIZATION

PRELIMINARY

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

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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MERRITT RESERVE

STONE RESERVE WAY PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

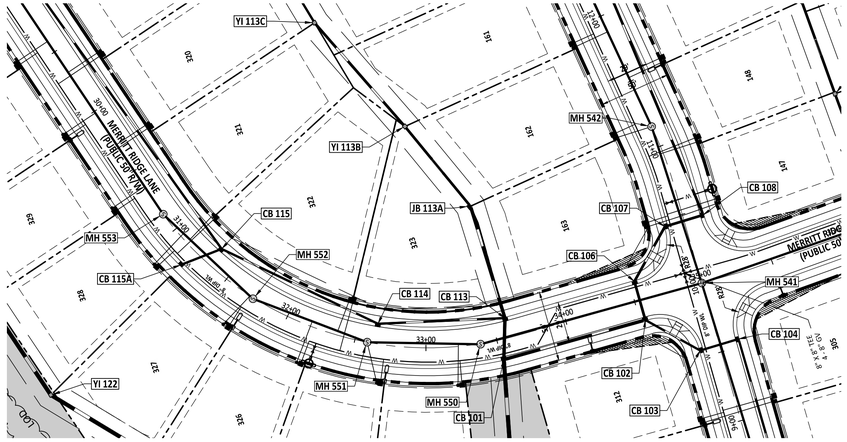
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

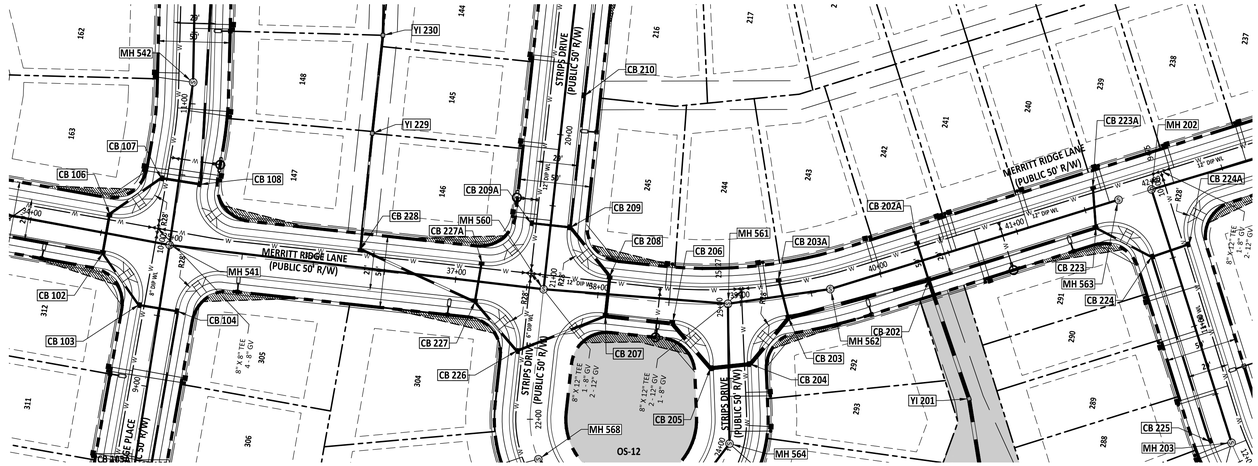
SHEET TITLE:
STONE RESERVE WAY PLAN & PROFILE

SHEET NO.:
CS-231

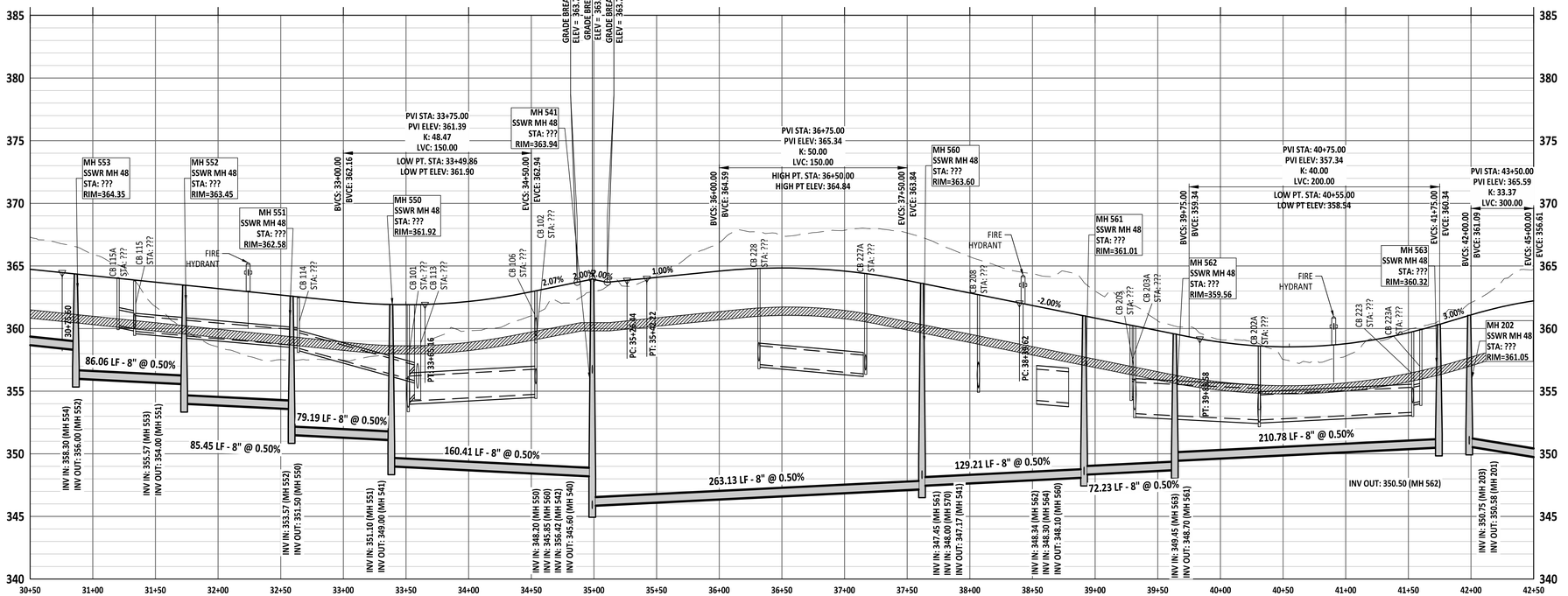
North 811 North Carolina
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property BR\Dwg_Working Dwgs\Sheet\Construction Set\SR_CS-230-STONE RESERVE WAY PLAN & PROFILE.dwg
2025-05-01





MERRITT RIDGE LANE



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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-3851 CERTIFICATE OF AUTHORIZATION

PRELIMINARY

PRELIMINARY PLANS NOT APPROVED FOR CONSTRUCTION

NORTH CAROLINA 36528 ENGINEER JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	02-03-25	FIRST REVISION SET

STIPULATION FOR REUSE

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MERRITT RESERVE

MERRITT RIDGE LN PLAN & PROFILE

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

MERRITT RIDGE LN PLAN & PROFILE

SHEET NO.:

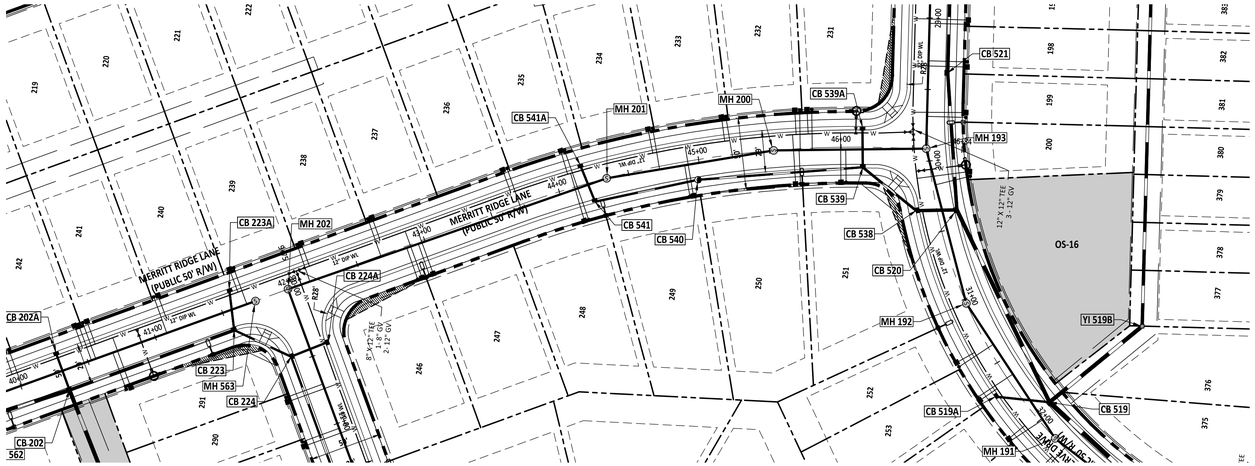
CS-232

North Carolina 811

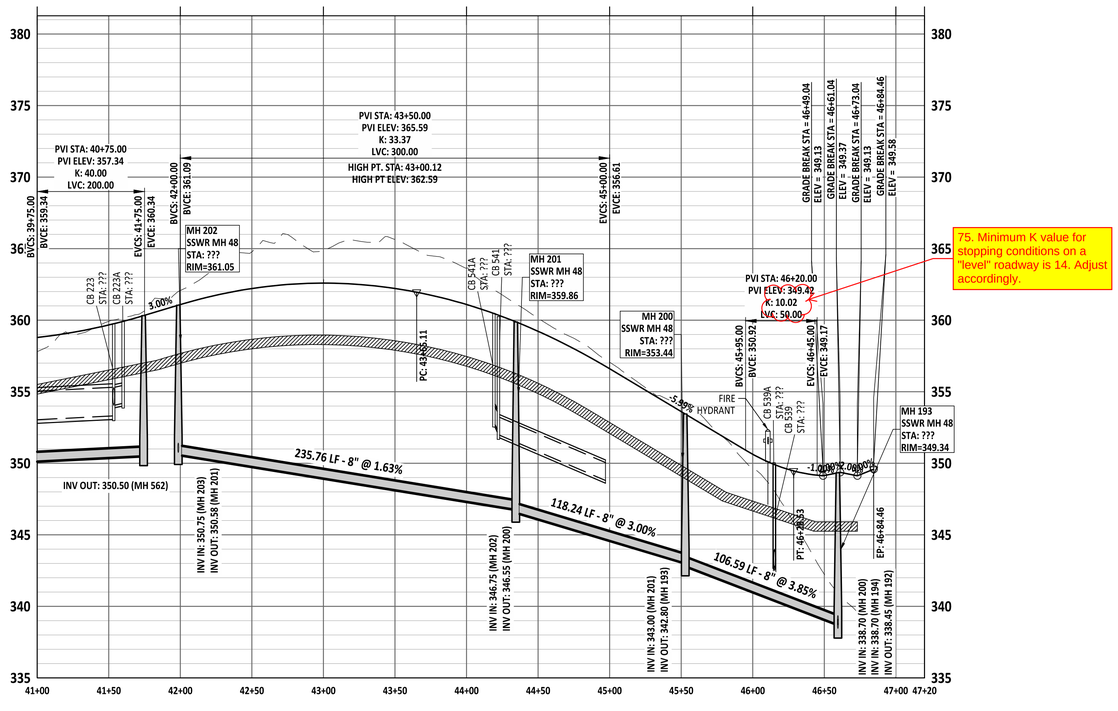
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property (BRP)\Dwg_Working Dwgs\Sheets\Construction Set\AS_CS-232 MERRITT RIDGE LN PLAN & PROFILE.dwg

2025-05-01



MERRITT RIDGE LANE



75. Minimum K value for stopping conditions on a "level" roadway is 14. Adjust accordingly.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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
36528
ENGINEER
JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	02-03-25	FIRST REVISION SET

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MERRITT RESERVE
MERRITT RIDGE LN PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

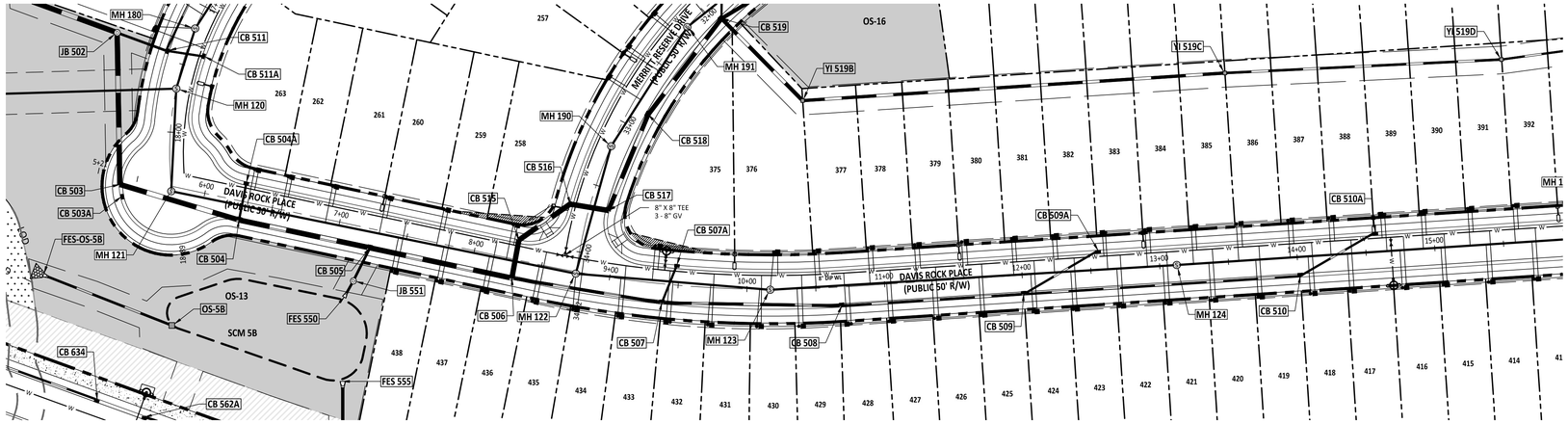
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
MERRITT RIDGE LN PLAN & PROFILE

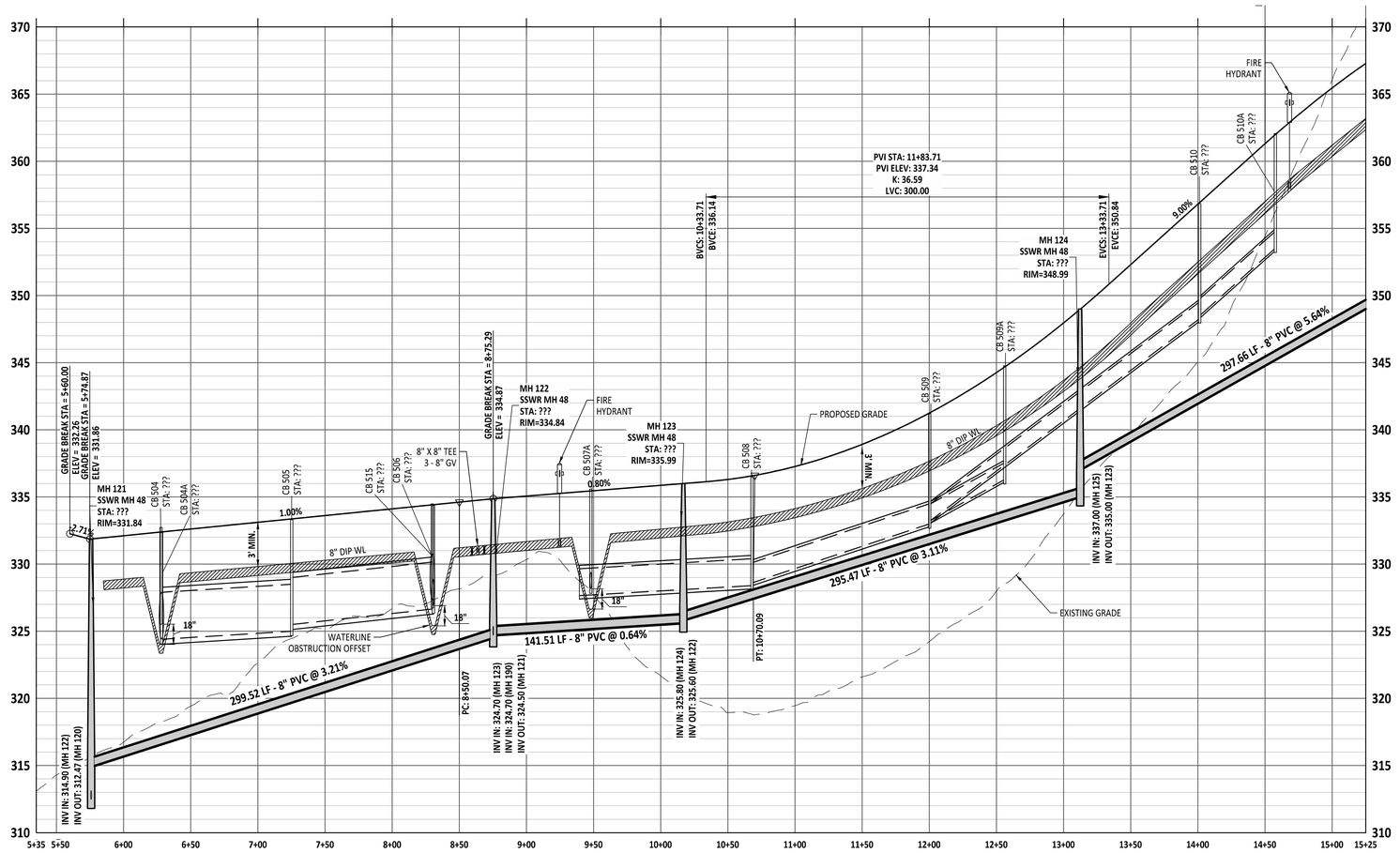
SHEET NO.:
CS-233

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\CS-233 MERRITT RIDGE LN PLAN & PROFILE.dwg
2025-05-01



DAVIS ROCK PLACE PLAN



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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

NO.	DATE	REVISION:

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MERRITT RESERVE
DAVIS ROCK PLACE PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

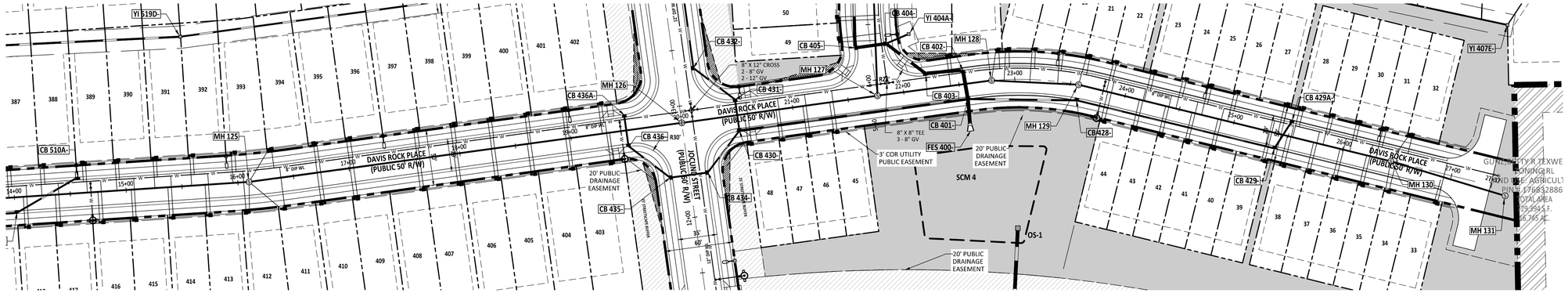
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
DAVIS ROCK PLACE PLAN & PROFILE

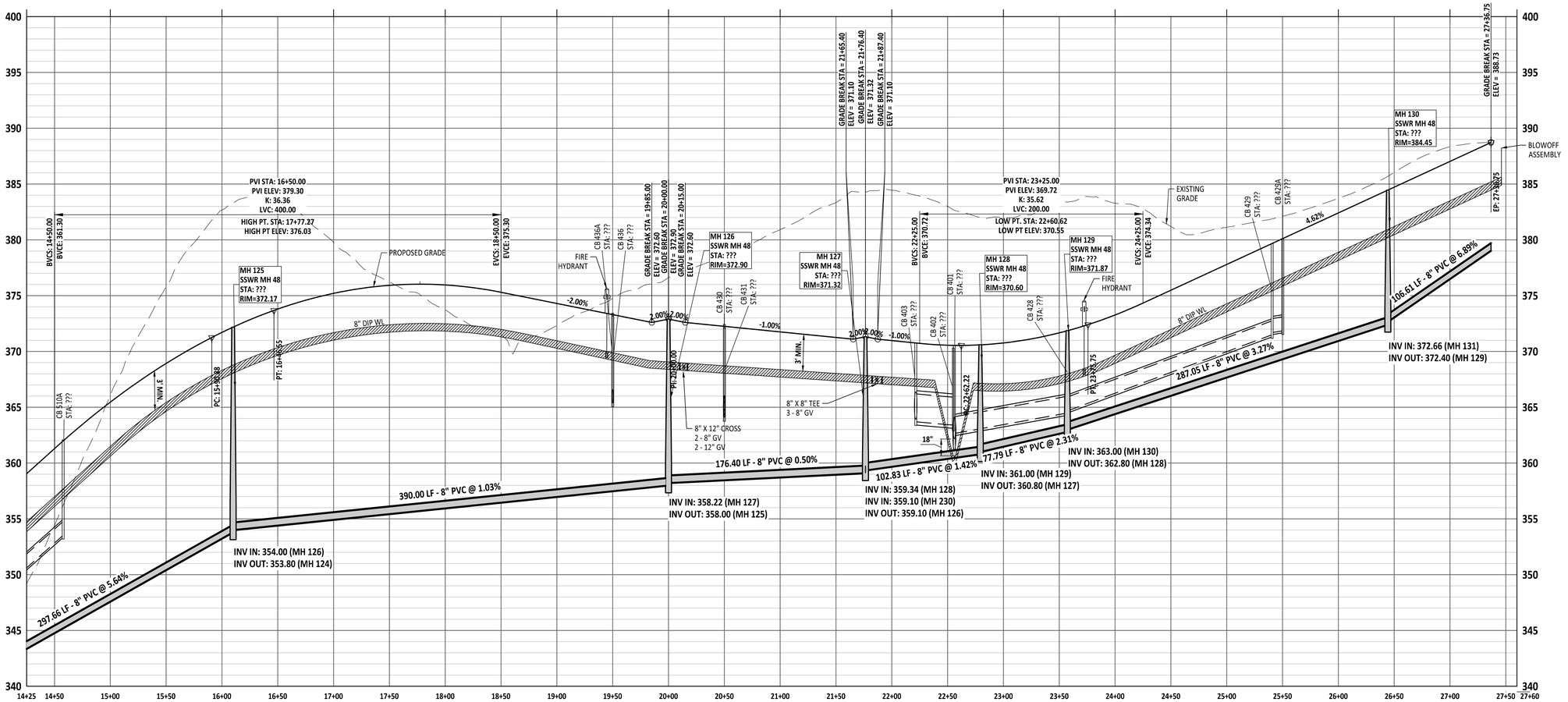
SHEET NO.:
CS-240

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\Shop_Working Dwgs\Sheets\Construction Set\CS-240-242 DAVIS ROCK PL PLAN & PROFILE.dwg
2025-05-01



DAVIS ROCK PLACE PLAN



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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 JACOB P. KLEIN

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FOR INFORMATION, ONLY

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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MERRITT RESERVE

DAVIS ROCK PLACE PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	04/14/2025

SHEET TITLE:

DAVIS ROCK PLACE PLAN & PROFILE

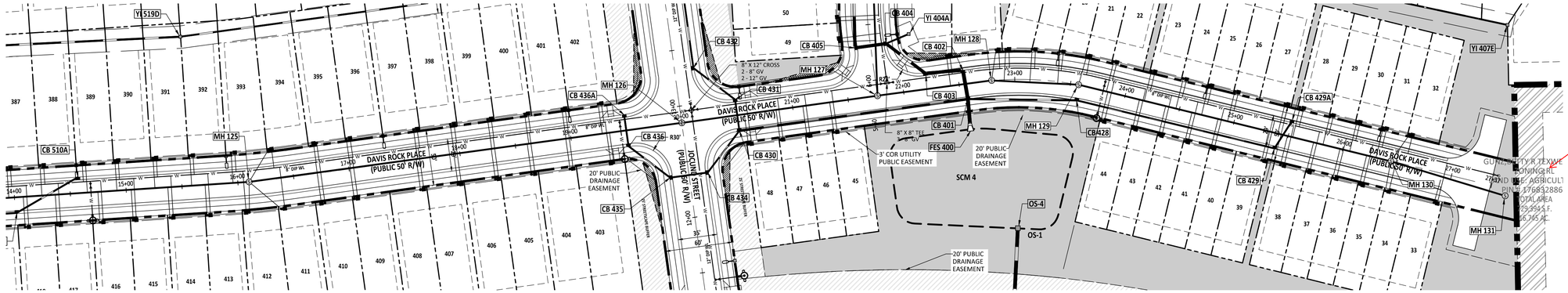
SHEET NO.:

CS-241

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

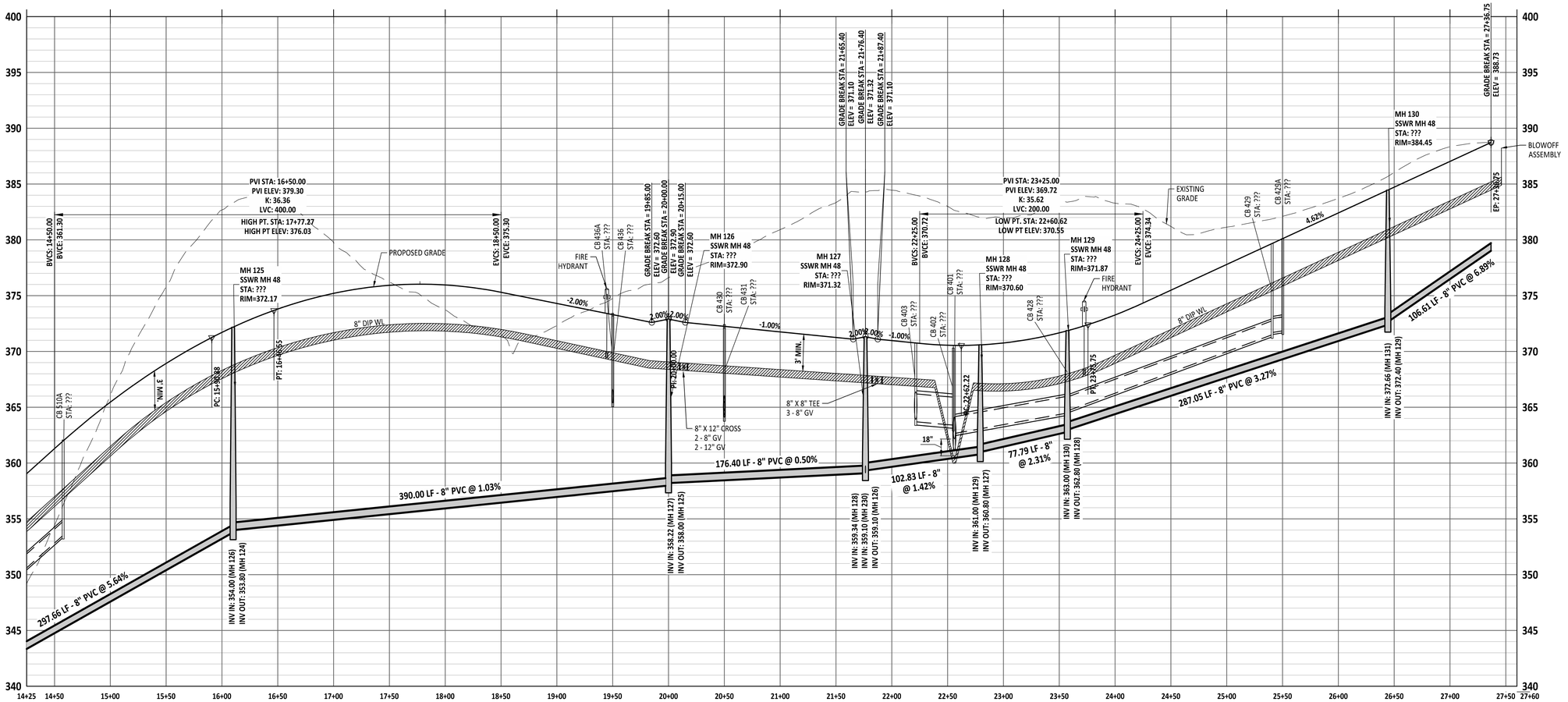
Z:\Jobs\23-0004 Merritt Property BRP\Revit_Working Dwgs\Sheets\Construction Set\41. CS-240-242 DAVIS ROCK PL PLAN & PROFILE.dwg

2025-05-01



29. Adjust text for legibility.

DAVIS ROCK PLACE PLAN



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

AMERICAN Engineering

American Engineering Associates - Southeast, P.A.
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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 JACOB P. KLEIN

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FOR INFORMATION, ONLY

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MERRITT RESERVE

DAVIS ROCK PLACE PLAN & PROFILE

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

DAVIS ROCK PLACE PLAN & PROFILE

SHEET NO.:

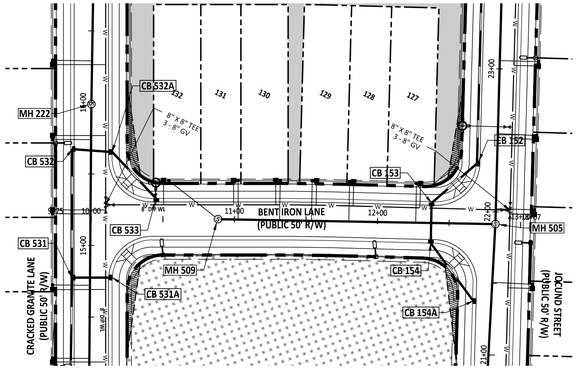
CS-241

North Carolina 811 Before You Dig

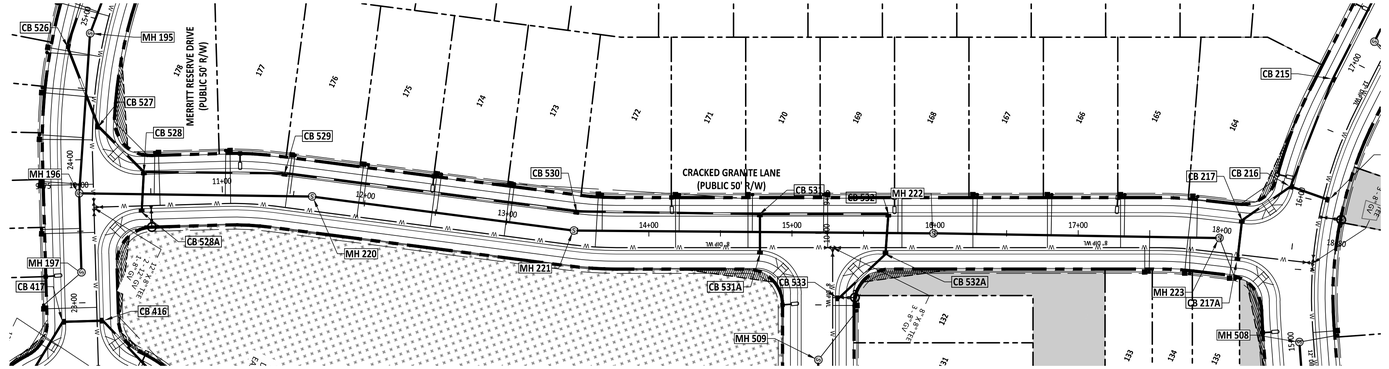
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property BRP\Revit_Working Dwgs\Sheets\Construction Set\41. CS-240-242 DAVIS ROCK PL PLAN & PROFILE.dwg

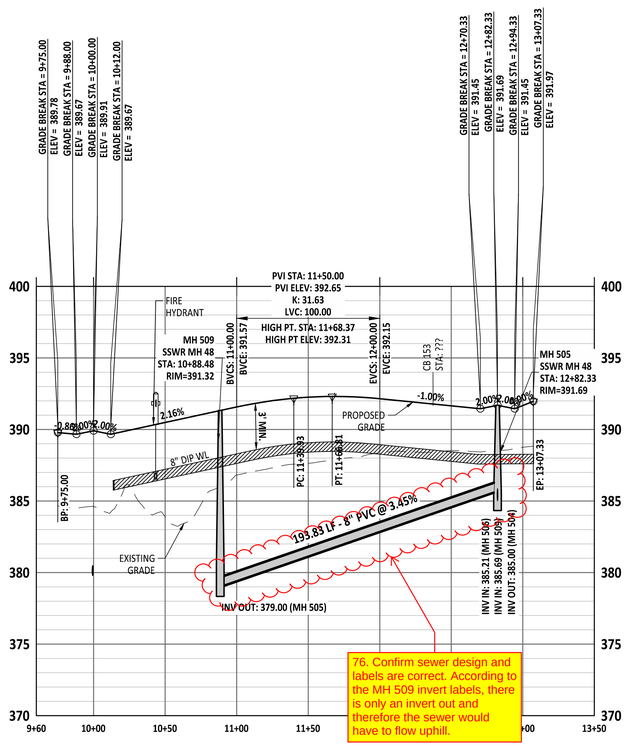
2025-05-01



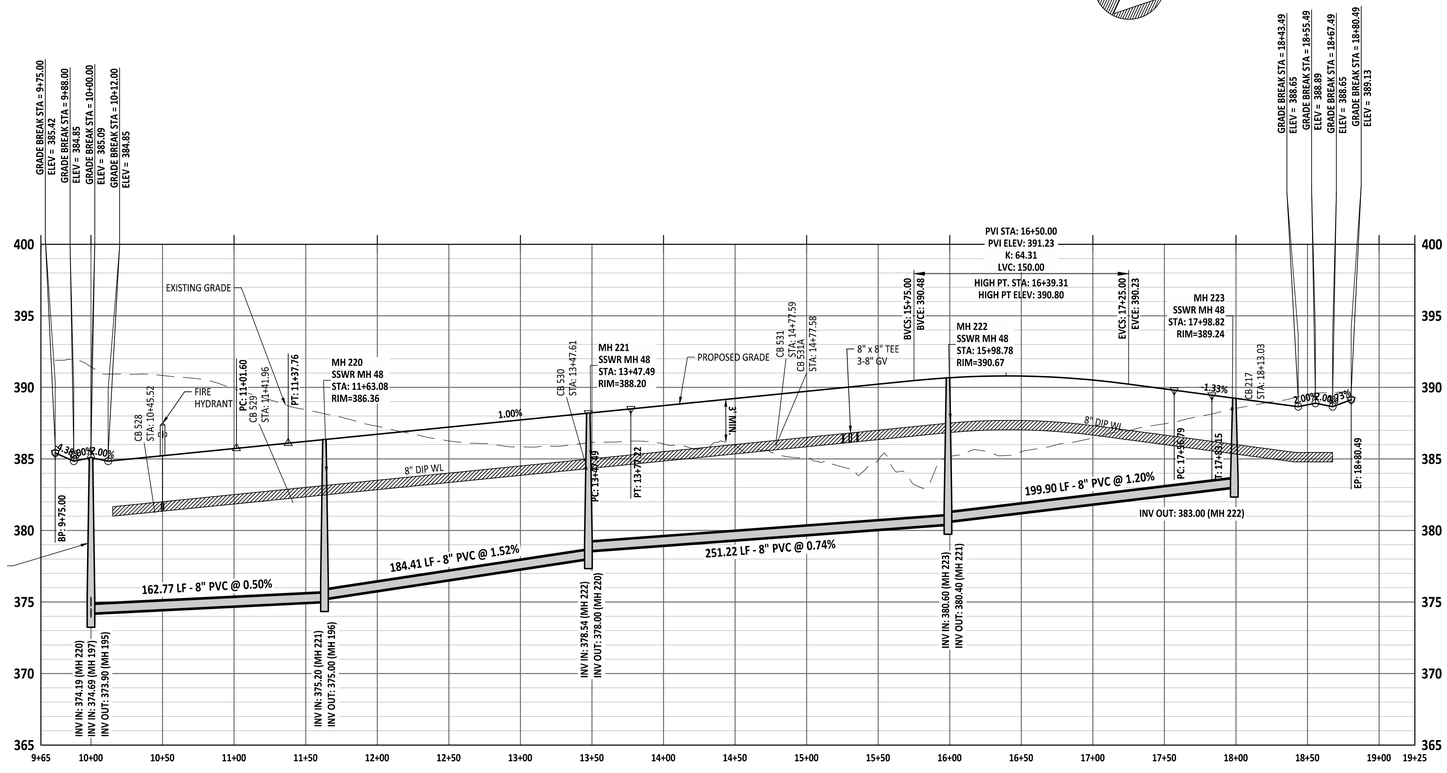
BENT IRON LANE



CRACKED GRANITE LANE



76. Confirm sewer design and labels are correct. According to the MH 509 invert labels, there is only an invert out and therefore the sewer would have to flow uphill.



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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

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

PRELIMINARY

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

FOR INFORMATION, ONLY

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MERRITT RESERVE

BENT IRON LANE PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

BENT IRON LANE PLAN & PROFILE

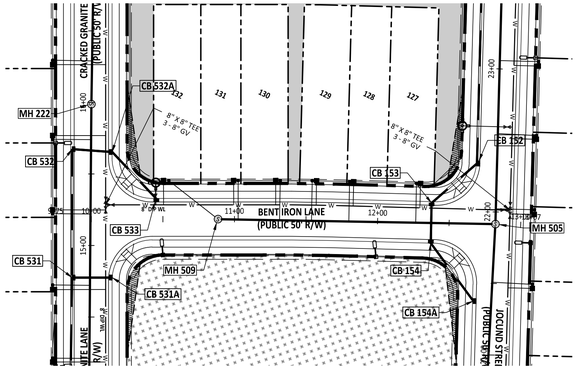
SHEET NO.:

CS-250

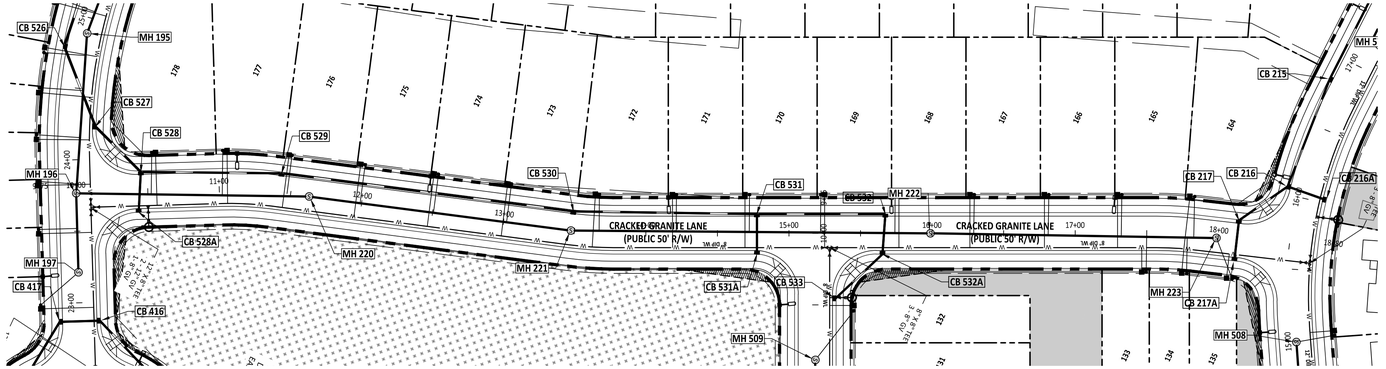
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property #RP\Dwg_Working Dwgs\Sheets\Construction Set\CS -CS-250 251 BENT IRON LN & CRACKED GRANITE LN PLAN & PROFILE.dwg

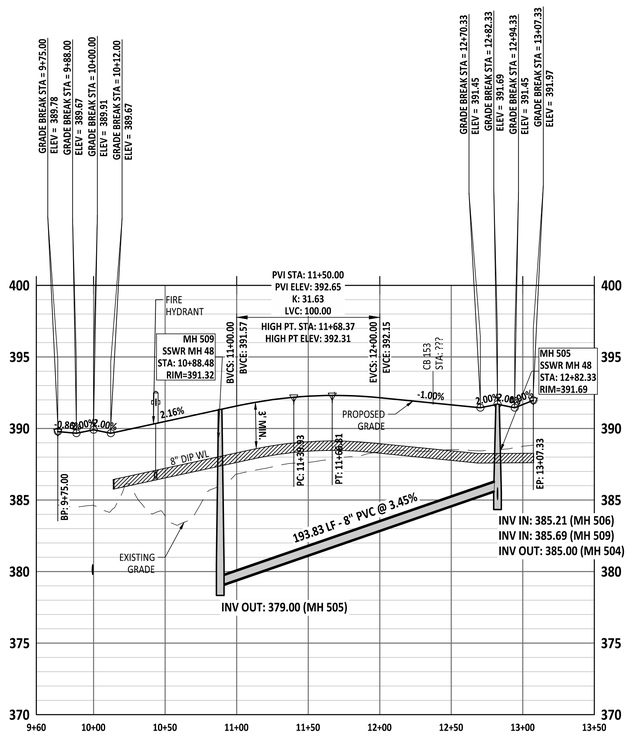
2025-05-01

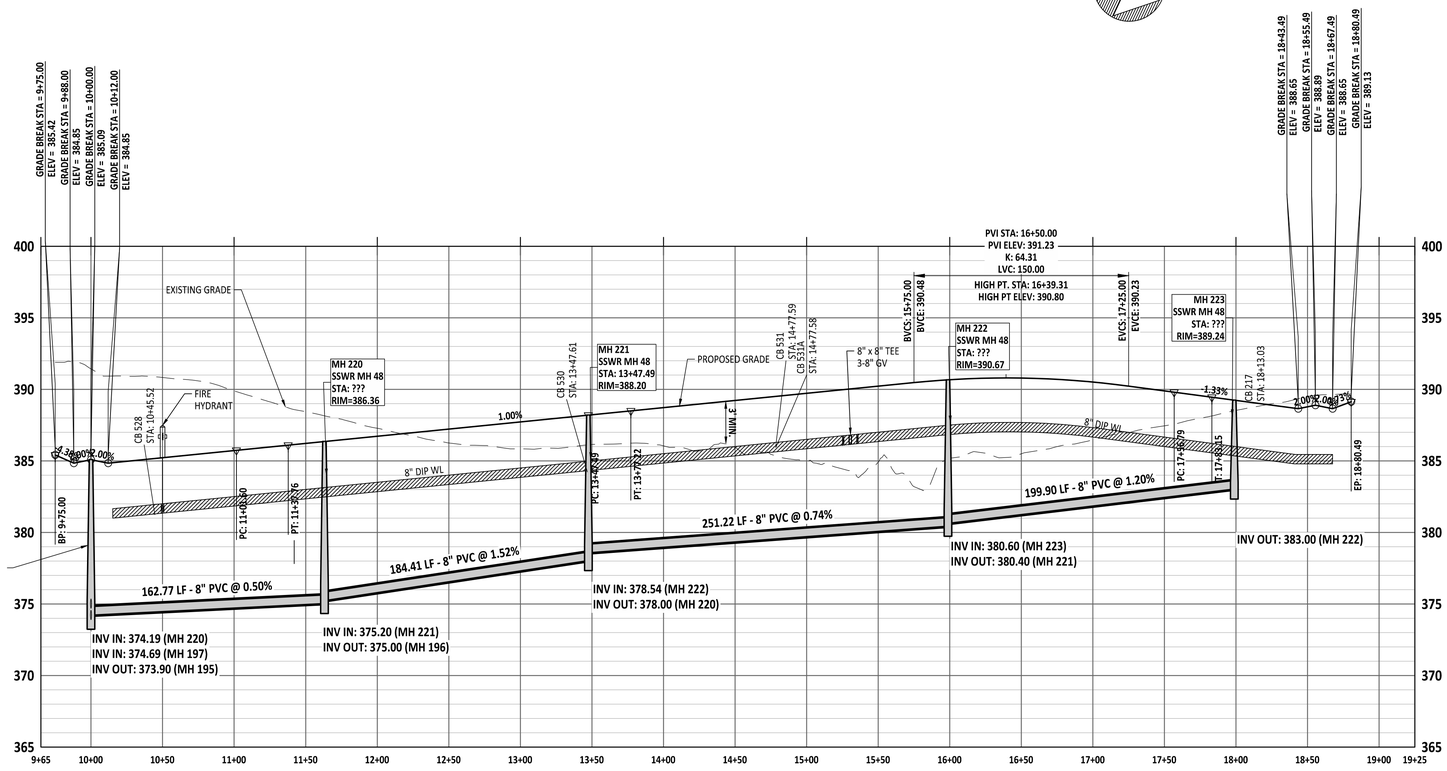


BENT IRON LANE



CRACKED GRANITE LANE





77. Duplicate Sheet?

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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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NORTH CAROLINA
JAKOB P. KLEIN
36528
ENGINEER
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NO.	DATE	REVISION:
1	02-03-25	FIRST REVISION SET

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MERRITT RESERVE

BENT IRON LANE PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	04/14/2025

SHEET TITLE:

BENT IRON LANE PLAN & PROFILE

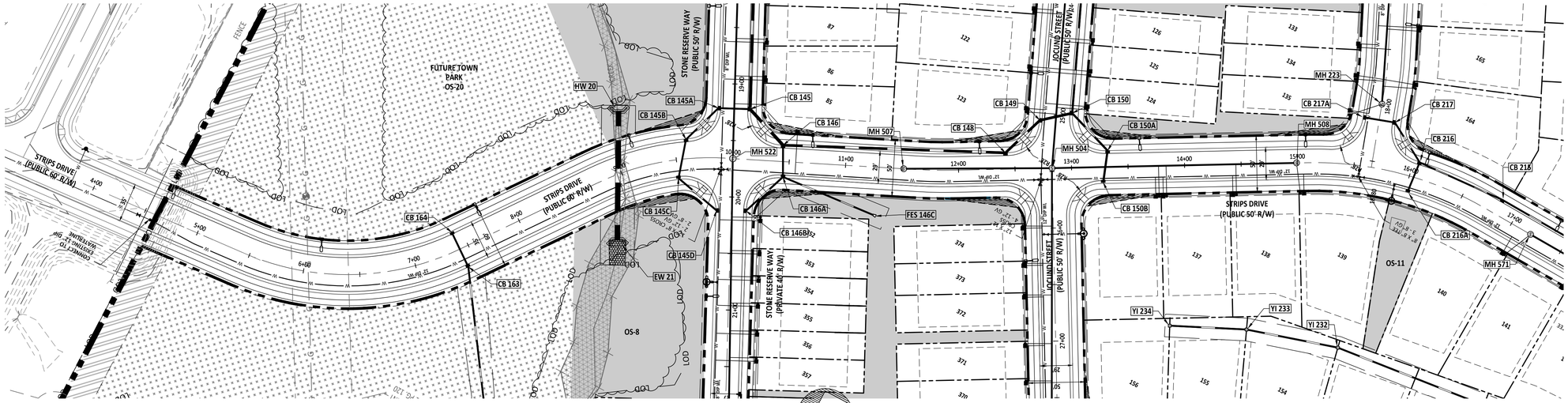
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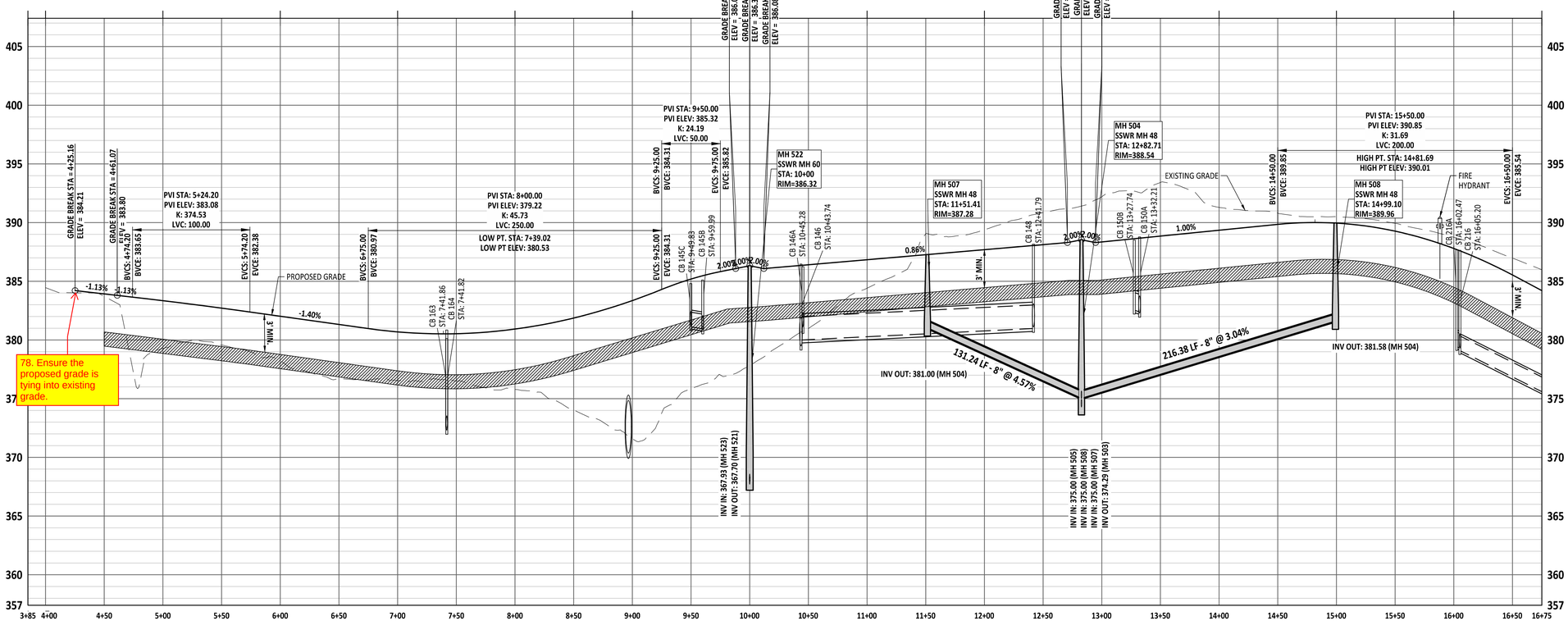
CS-250

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 (BBP,Bray)_Working Dwgs\Sheets\Construction Set\CS -CS-250 251 BENT IRON LN & CRACKED GRANITE LN PLAN & PROFILE.dwg

2025-05-01





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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STRIPS PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

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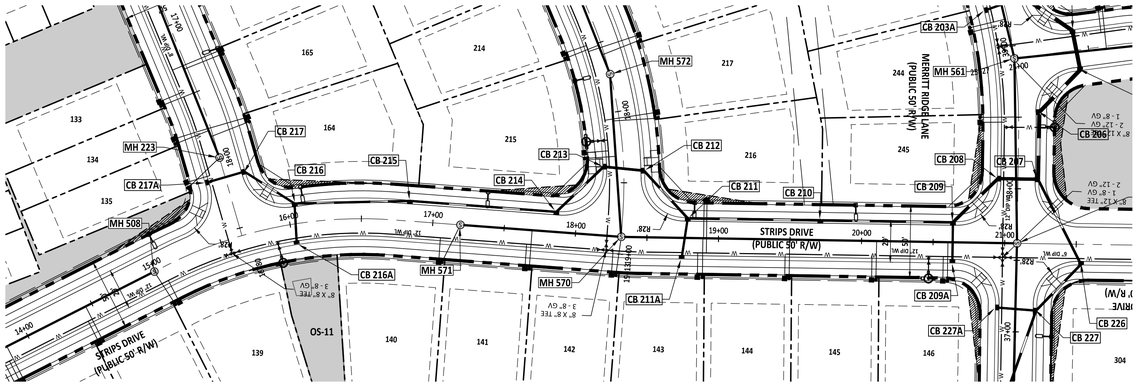
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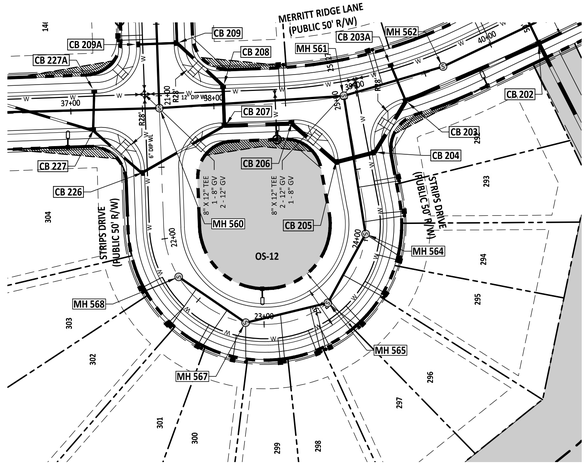
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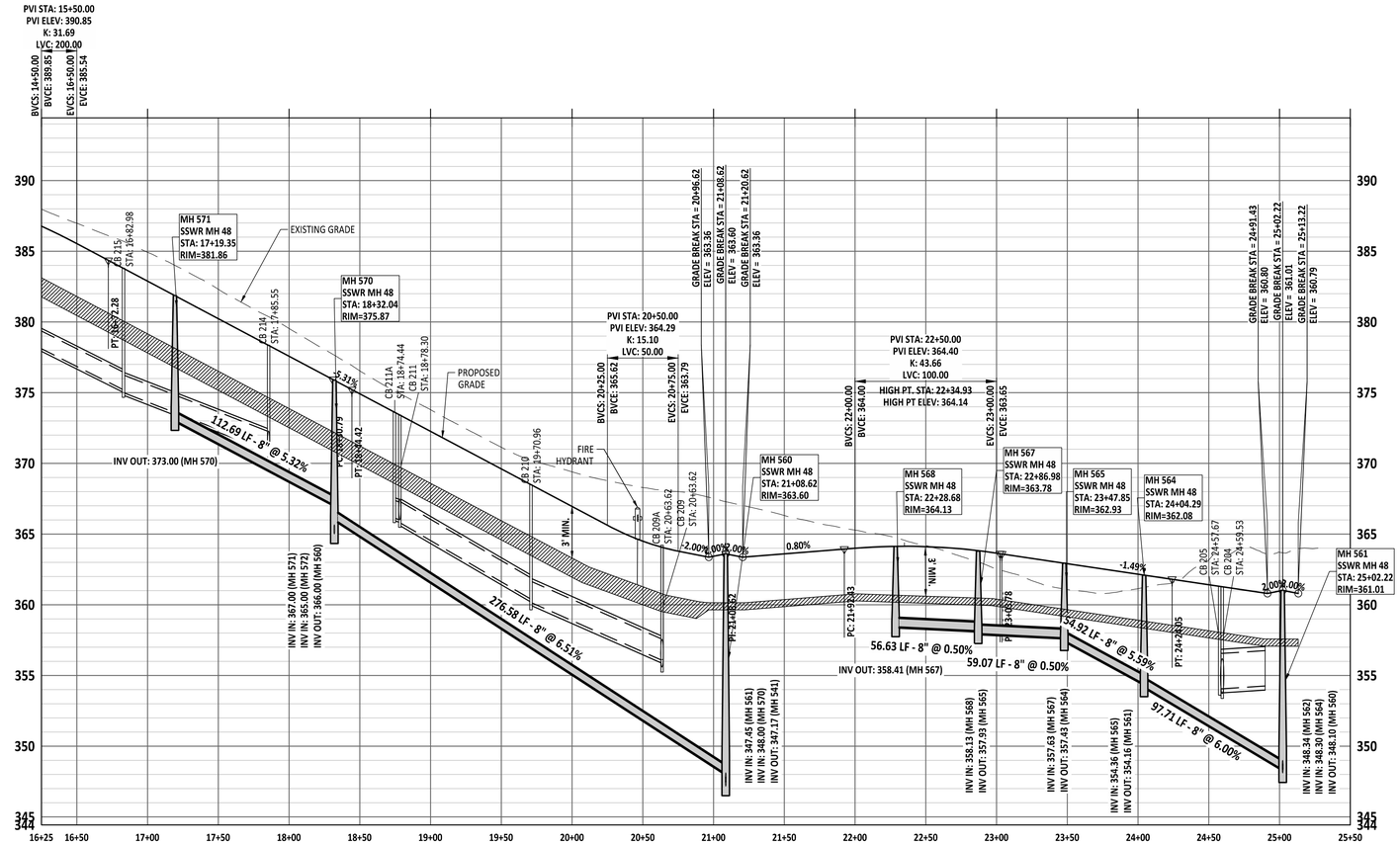
CS-260

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 Merritt Property (BRD)\dwg_Working Dwgs\Sheets\Construction Set\42. CS-250-251 BENT IRON (N & O)\CRACKED GRANITE LN PLAN & PROFILE.dwg
2025-05-01







GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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

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STRIPS PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

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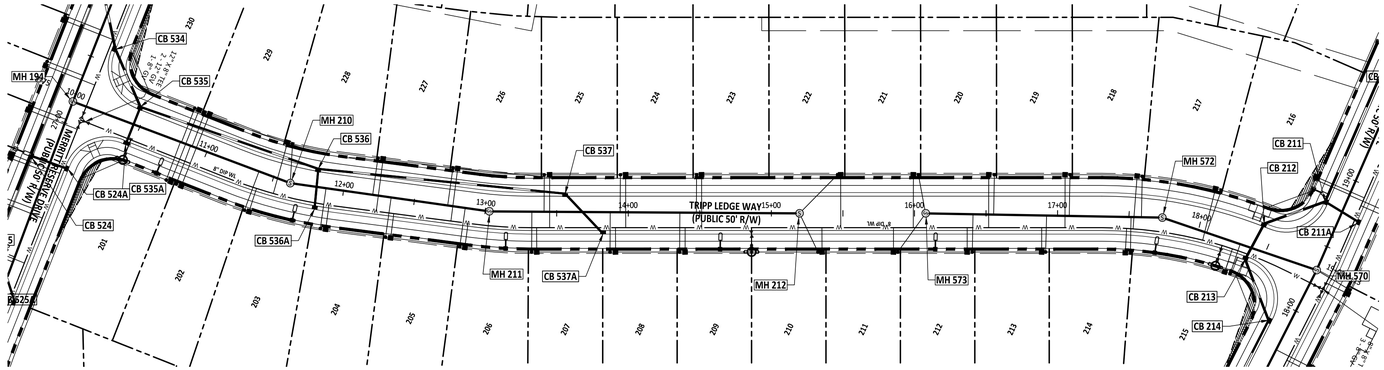
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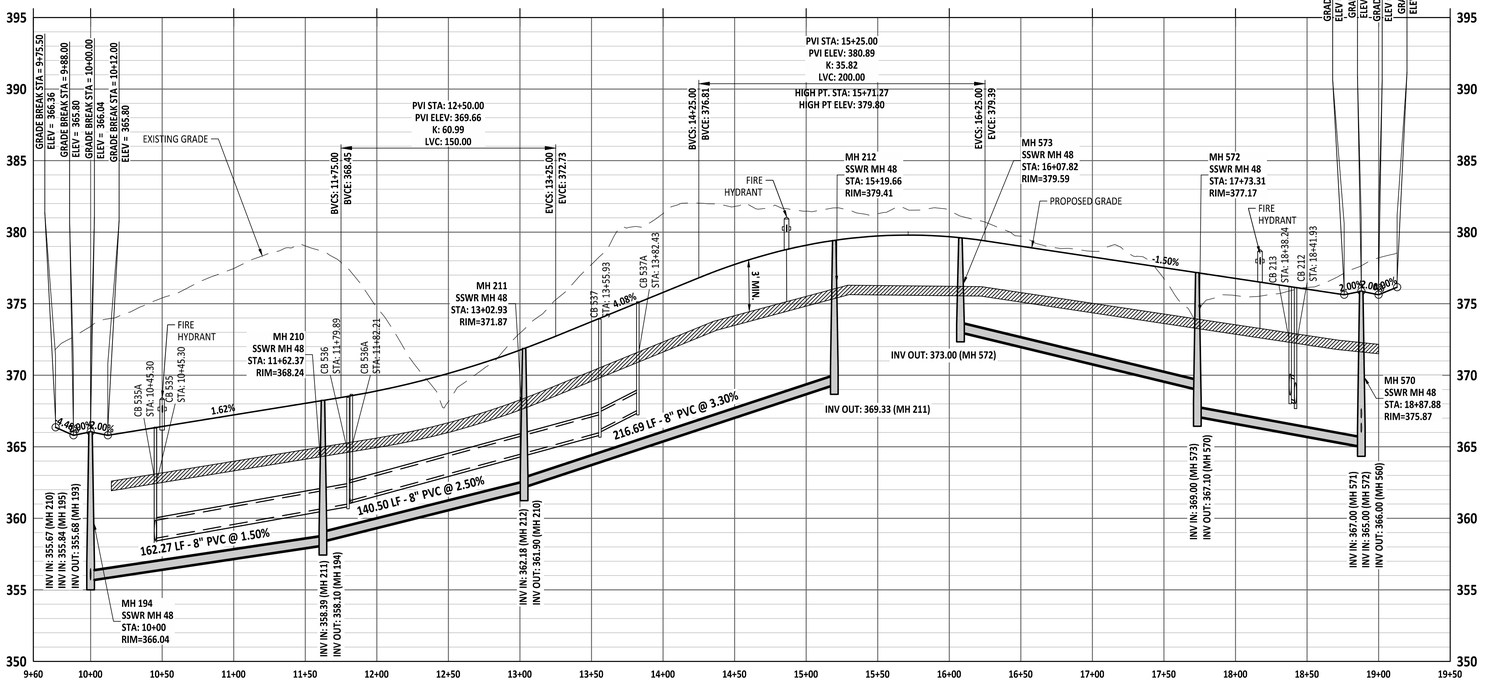
CS-261

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 Merritt Property (BRT)\dwg_Working Dwgs\Sheets\Construction Set\CS-261 BENT IRON LN & CRACKED CRANITE LN PLAN & PROFILE.dwg
2025-05-01



TRIPP LEDGE PLAN



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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TRIPP LEDGE WAY PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
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DATE:	05/01/2025

SHEET TITLE:

TRIPP LEDGE WAY PLAN & PROFILE

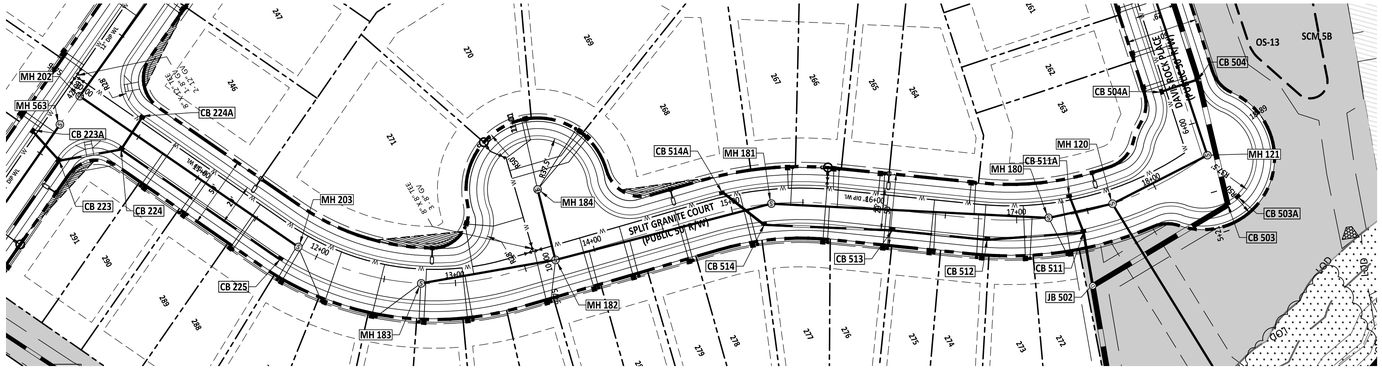
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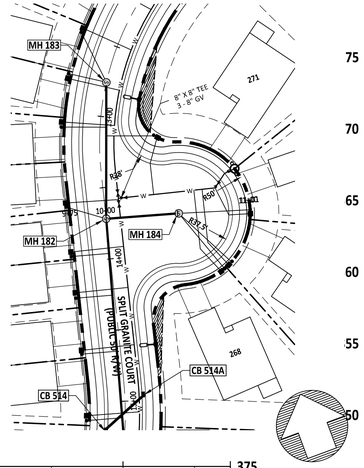
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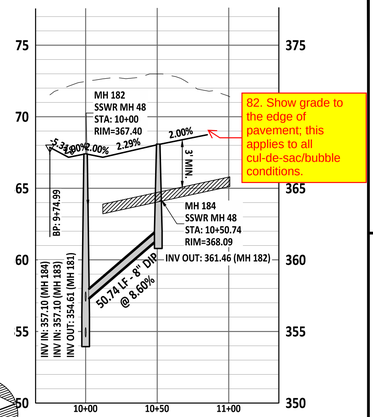
North Carolina 811 Before You Dig
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property @RDAve_Working Dwgs\Sheets\Construction Set\01 CS-265 TRIPP LEDGE WAY PLAN & PROFILE.dwg

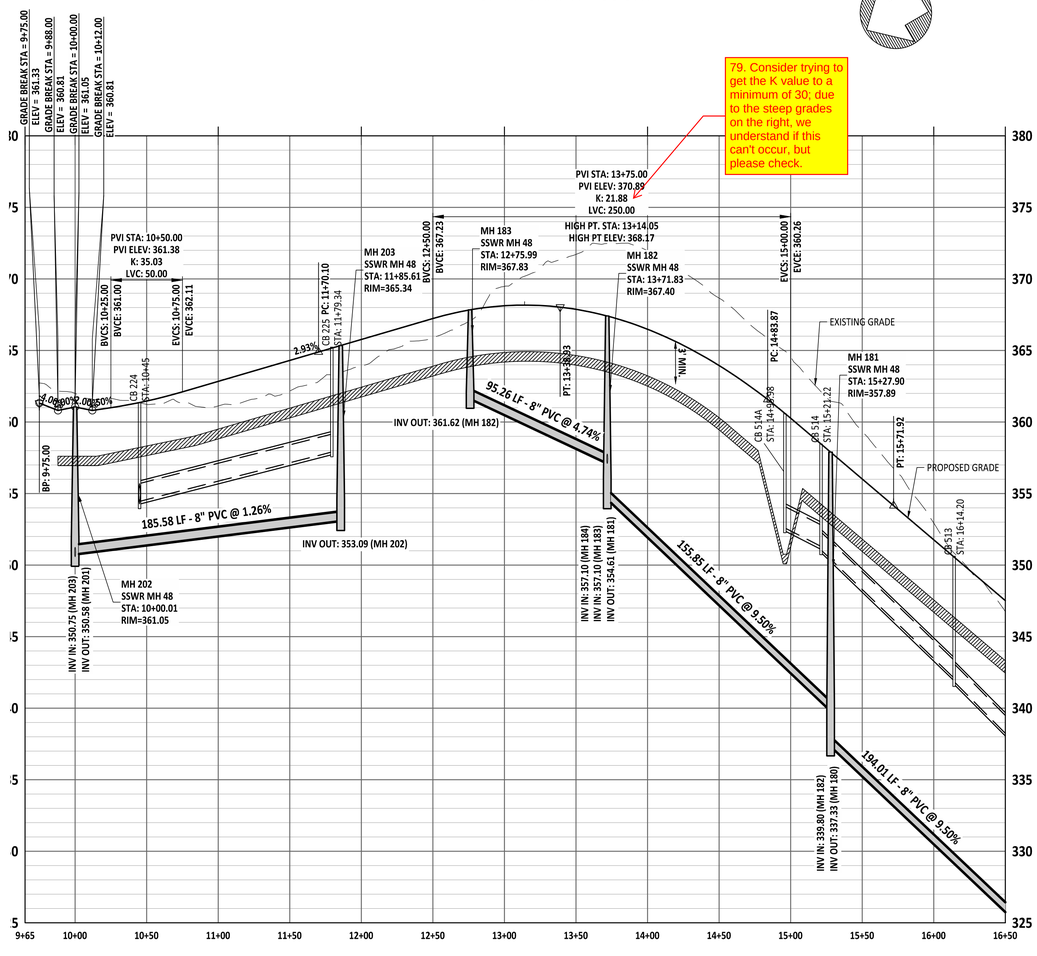
2025-05-01

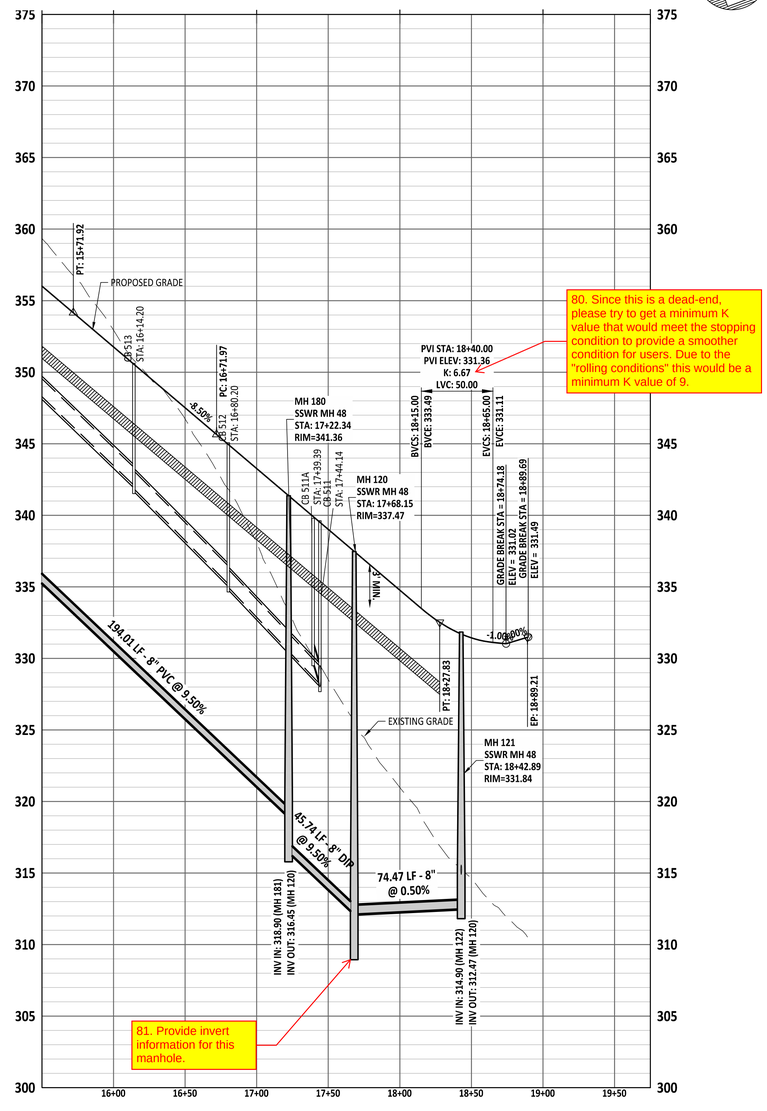






SPLIT GRANITE COURT





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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

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

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SPLIT GRANITE COURT PLAN & PROFILE

ROLESVILLE RD

WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

SPLIT GRANITE COURT PLAN & PROFILE

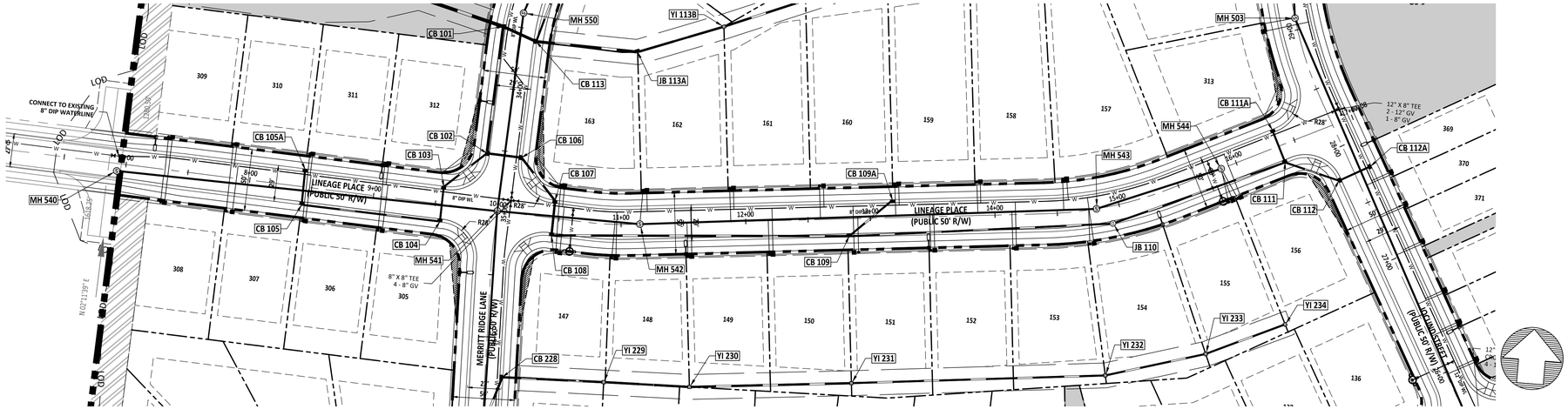
SHEET NO.:

CS-280

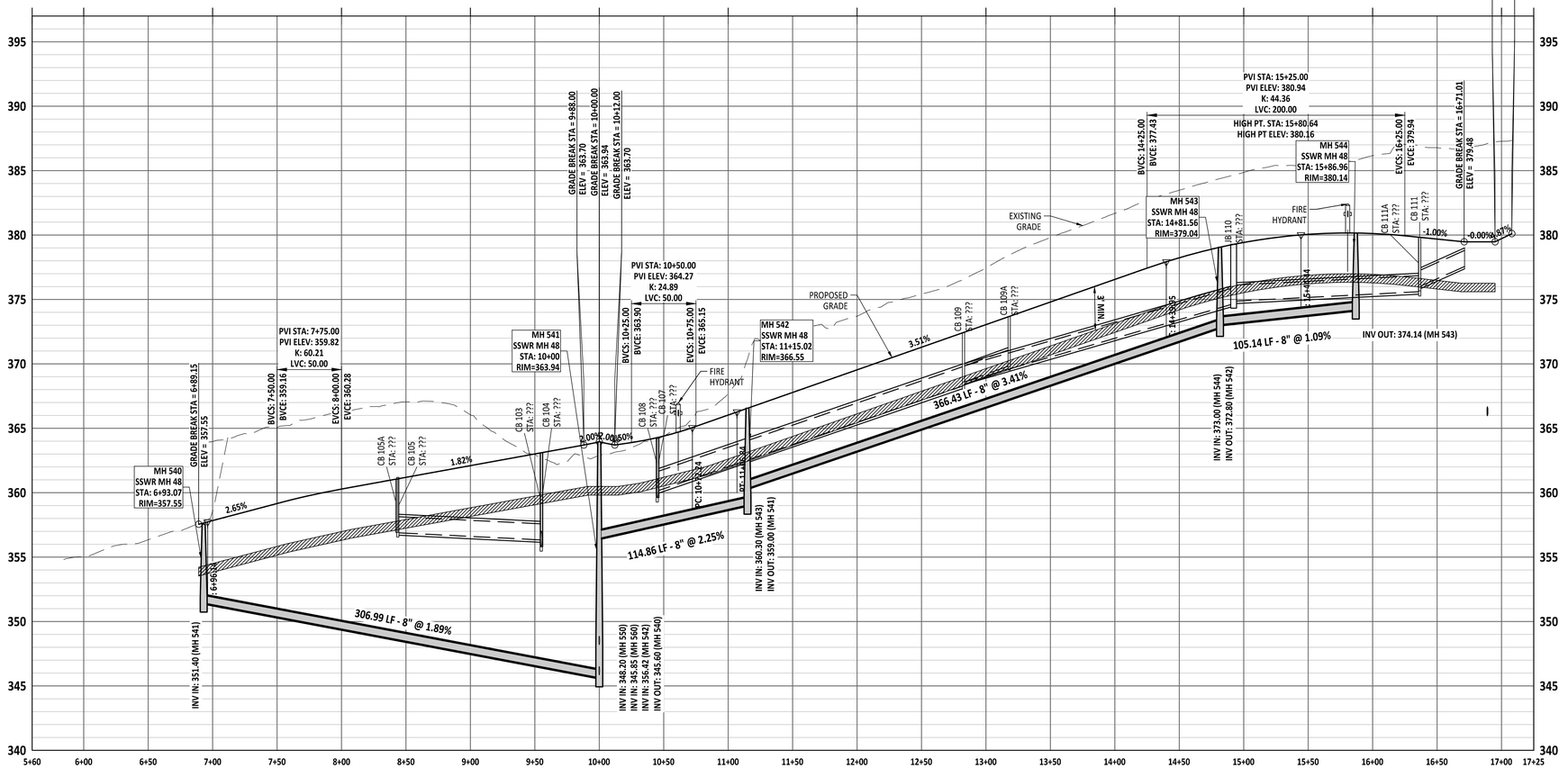
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

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2025-05-01



LINEAGE PLACE



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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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Raleigh, NC 27607
919-469-1101

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

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NORTH CAROLINA 36528 ENGINEER JAKOB P. KLEIN
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MERRITT RESERVE

LINEAGE PLACE PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

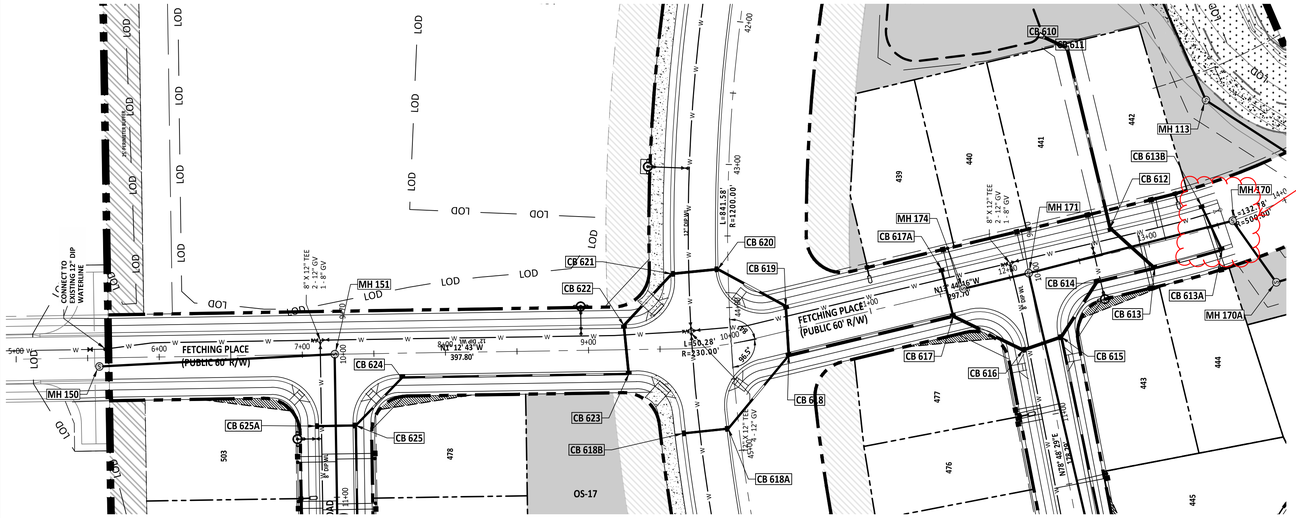
LINEAGE PLACE PLAN & PROFILE

SHEET NO.:

CS-281

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2025-05-01



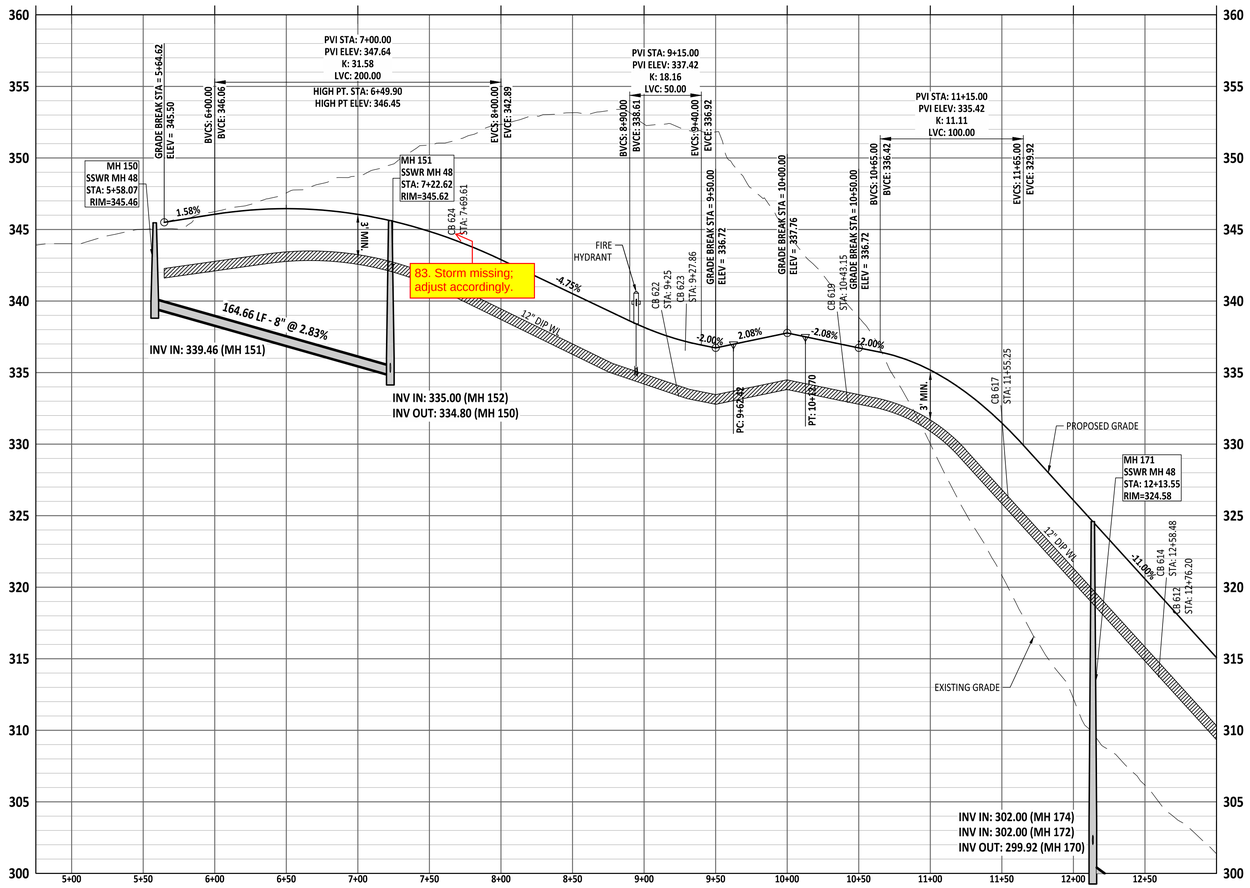
FETCHING PLACE

57. All dead-end roads will need barricades for future roadway connections.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



PROJECT NUMBER = PSP-24-07

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AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3881
CERTIFICATE OF AUTHORIZATION

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REGISTERED
PROFESSIONAL
ENGINEER
36528
JAKOB P. KLEIN

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MERRITT RESERVE
FETCHING PLACE PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

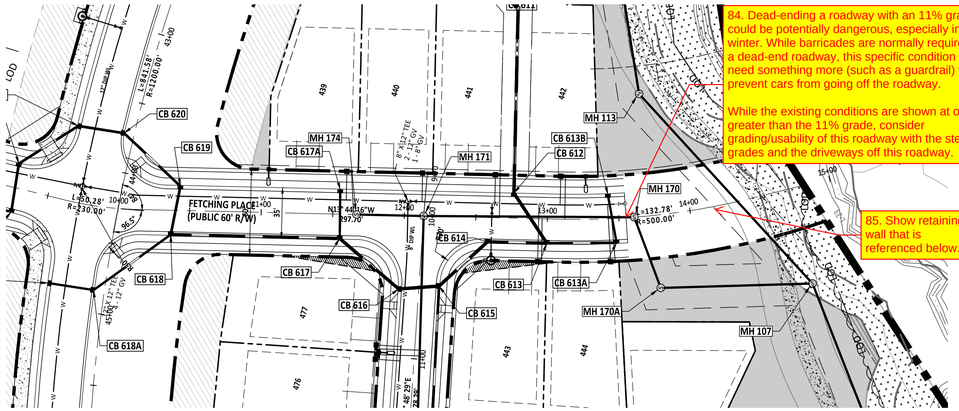
SHEET TITLE:
FETCHING PLACE PLAN & PROFILE

SHEET NO.:
CS-290

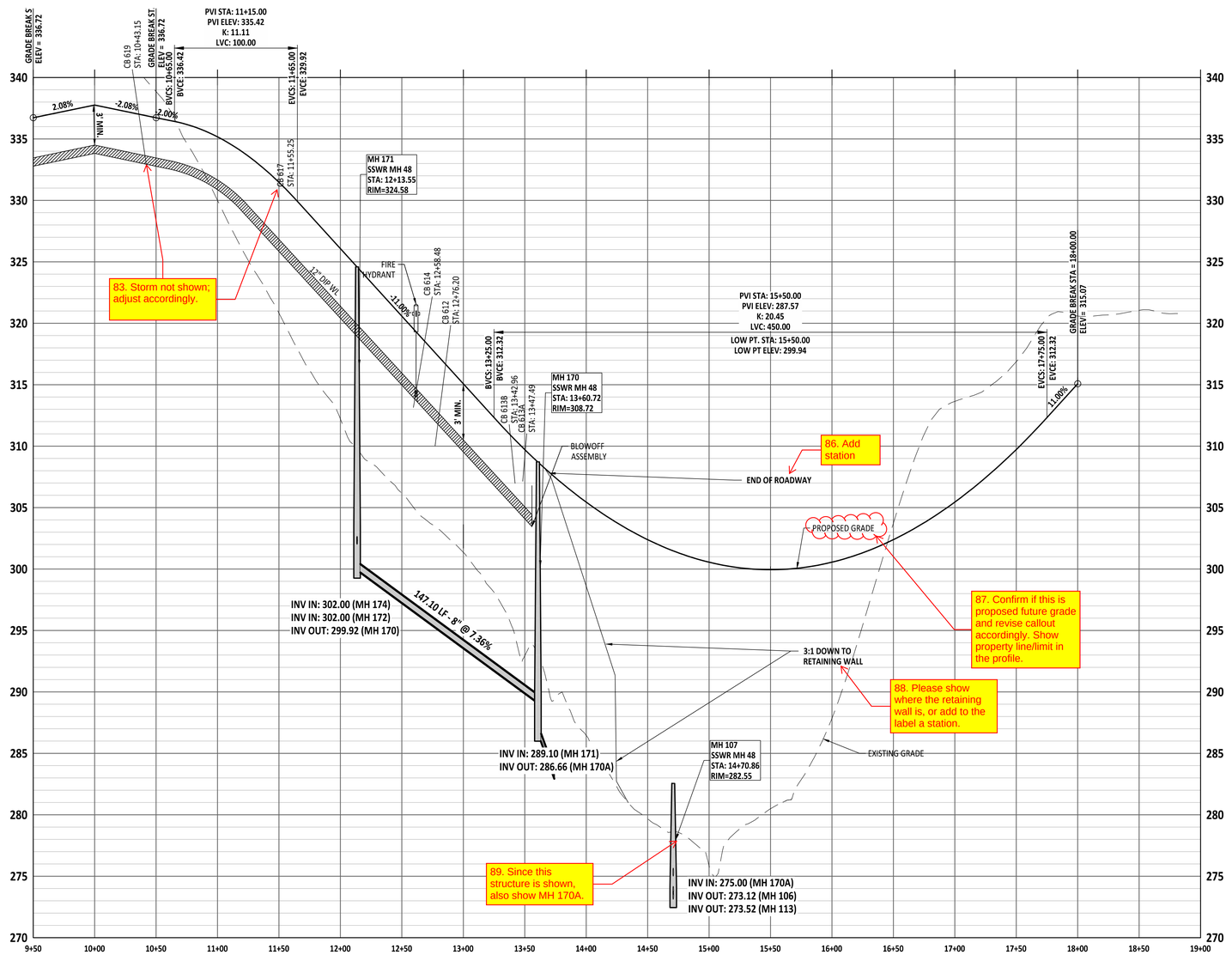
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merrit Property BRP\Dwg_Working Dwg\(S)heets\Construction Set\44. CS-290 FETCHING PLACE PLAN & PROFILE.dwg

2025-05-01



FETCHING PLACE



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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C-3881
CERTIFICATE OF AUTHORIZATION

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REGISTERED
16528
PROFESSIONAL ENGINEER
JAKOB P. KLEIN

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MERRITT RESERVE
FETCHING PLACE PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

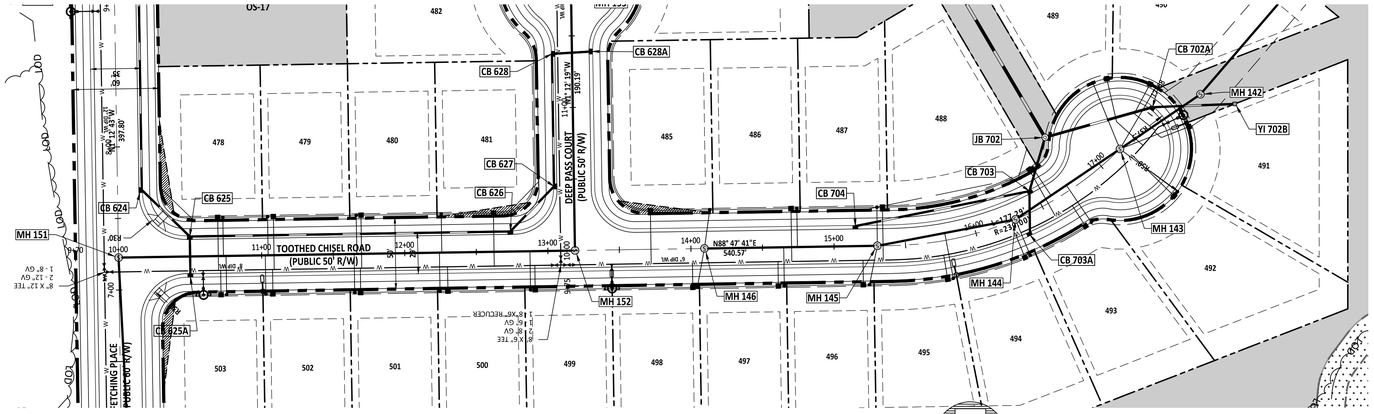
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
FETCHING PLACE PLAN & PROFILE

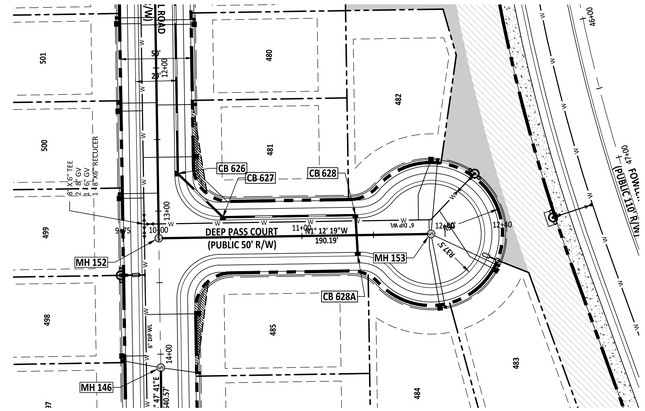
SHEET NO.:
CS-291

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

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2025-05-01



TOOTHED CHISEL WAY



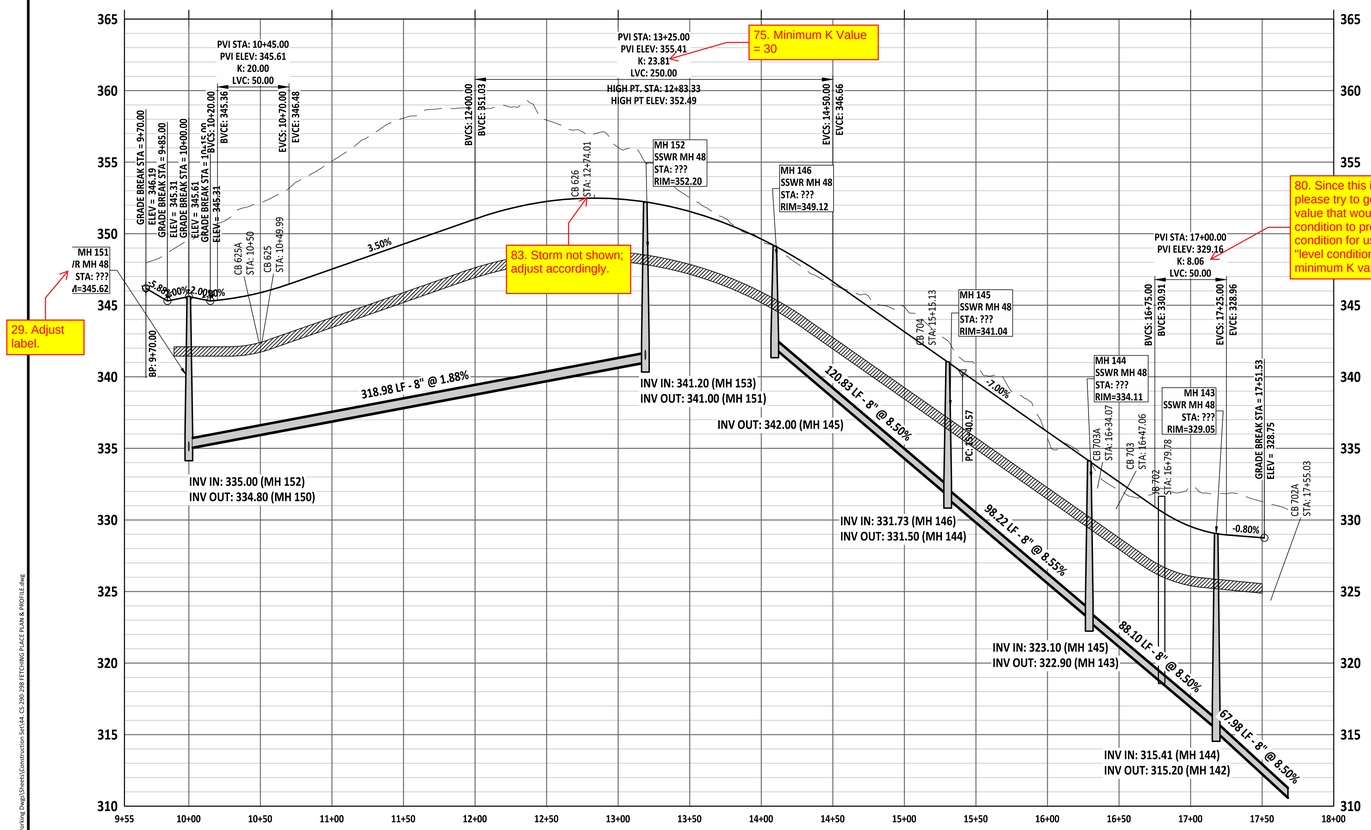
DEEP PASS COURT

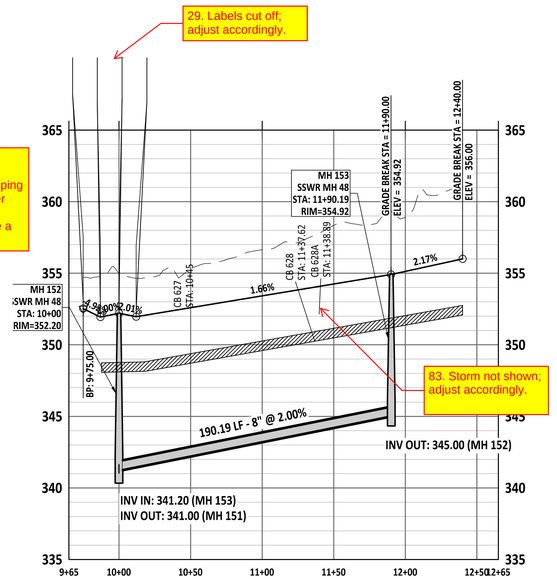
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft





PROJECT NUMBER = PSP-24-07

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

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

PRELIMINARY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JACOB P. KLEIN

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1	02-03-25	FIRST REVISION SET

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MERRITT RESERVE

TOOTHED CHISEL WAY & DEEP PASS COURT PLAN AND PROFILE

ROLESVILLE RD

WAKE COUNTY NC 27312

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DATE:	05/01/2025

SHEET TITLE:

TOOTHED CHISEL WAY & DEEP PASS COURT PLAN AND PROFILE

SHEET NO.:

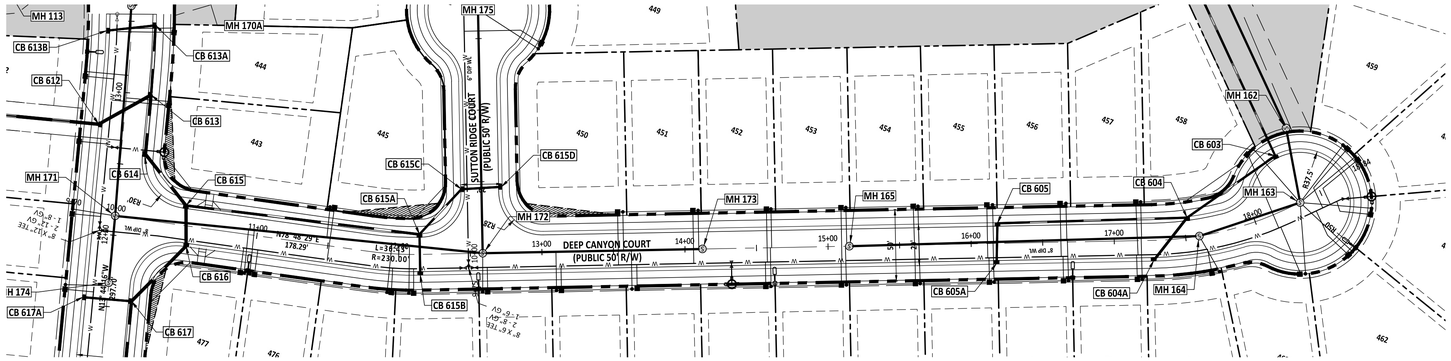
CS-295

North Carolina 811

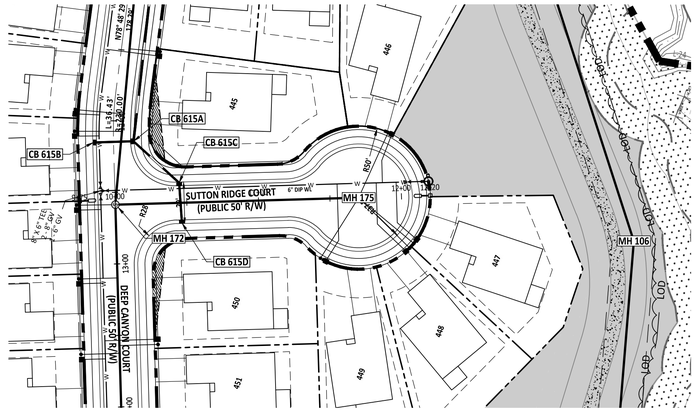
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
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http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property (BRD)\dwg_Working Dwgs\Streets\Construction Set\44. CS-290-298 (TOOTHED PLACE PLAN & PROFILE.dwg

2025-05-01



DEEP CANYON COURT



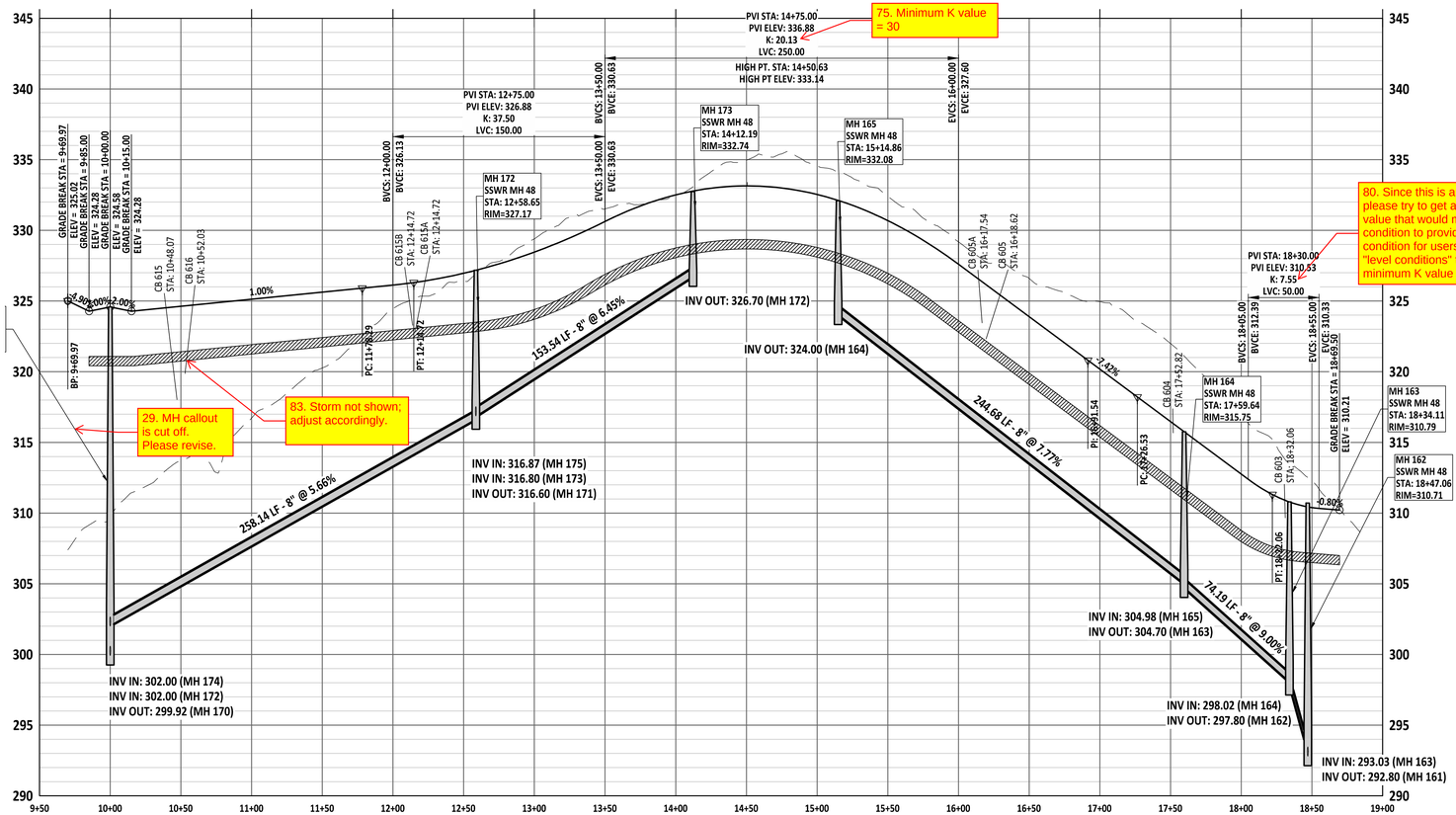
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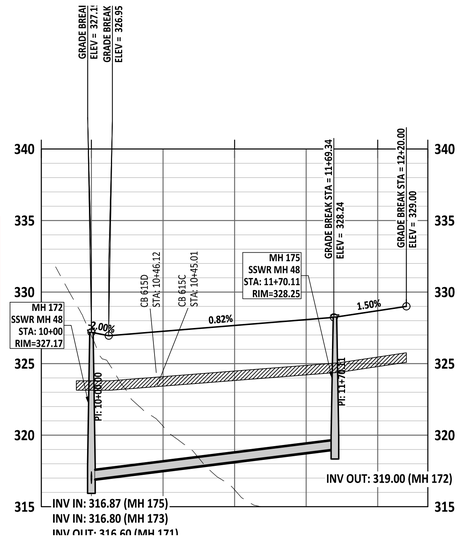
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft





PROJECT NUMBER = PSP-24-07

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 JACOB P. KLEIN

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MERRITT RESERVE

DEEP CANYON COURT PLAN & PROFILE

ROLESVILLE RD

WAKE COUNTY NC 27312

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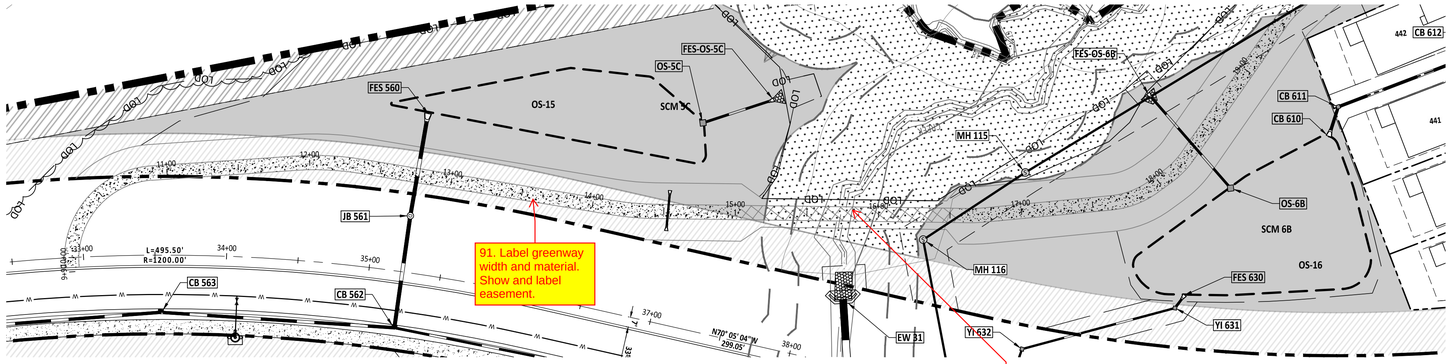
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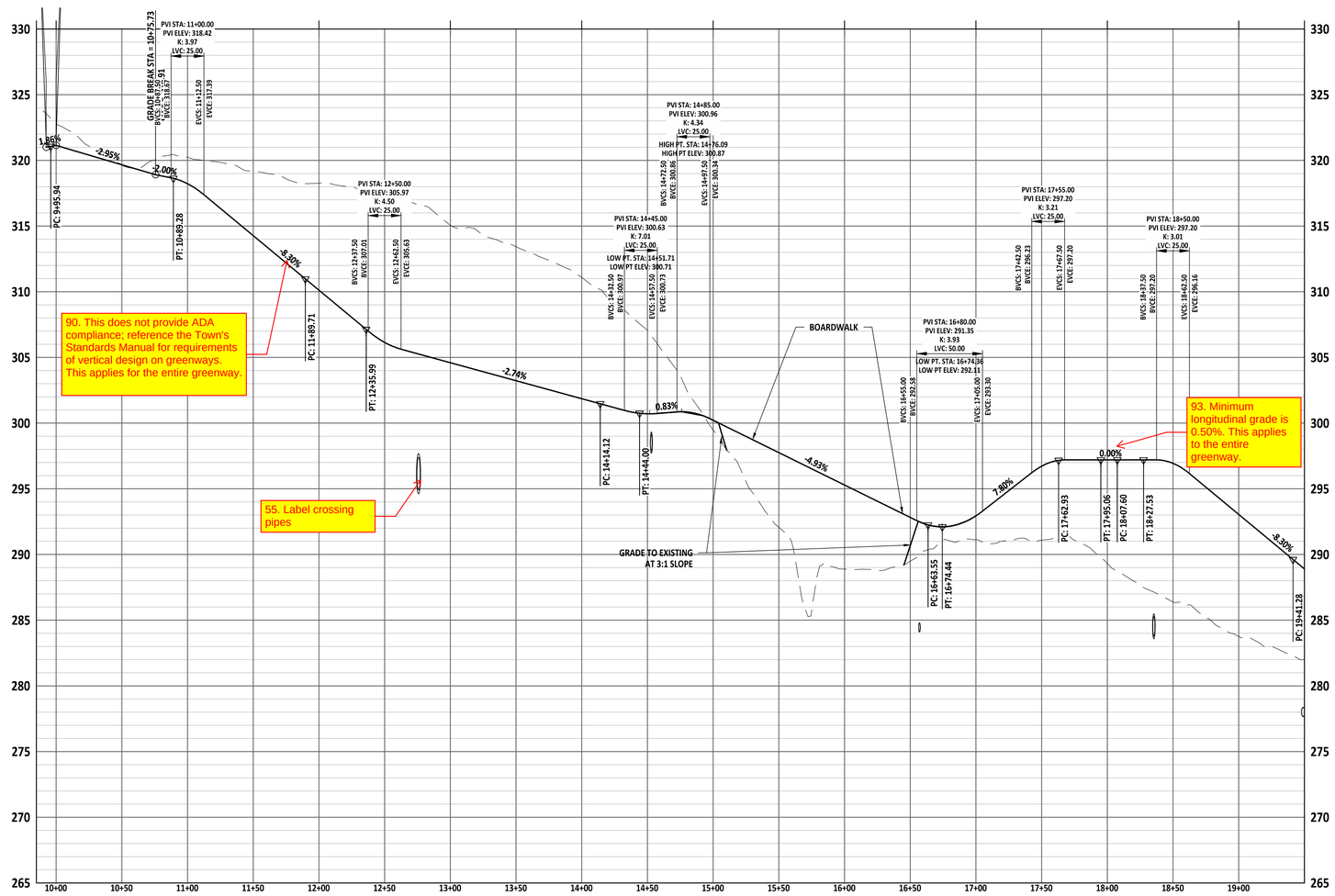
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811 or 1-800-632-4949
Remote Ticket Entry
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GREENWAY PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

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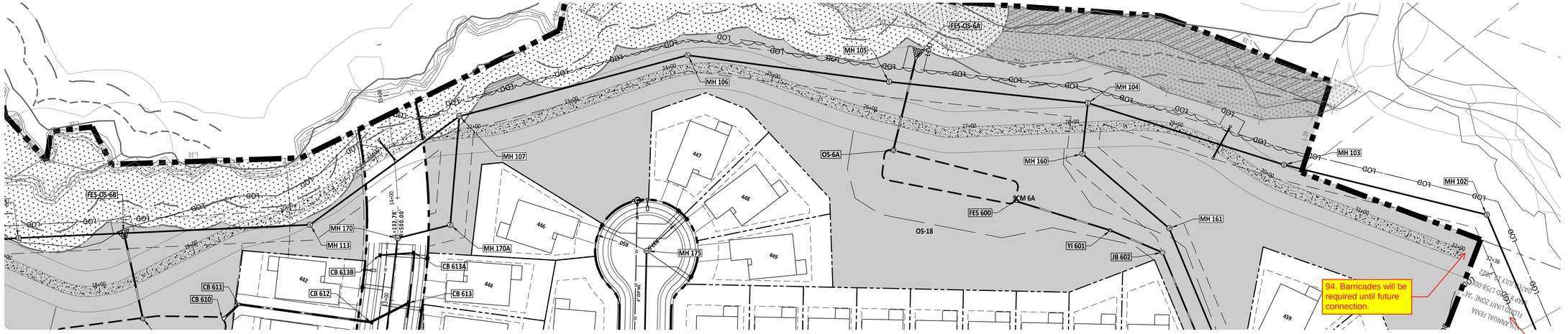
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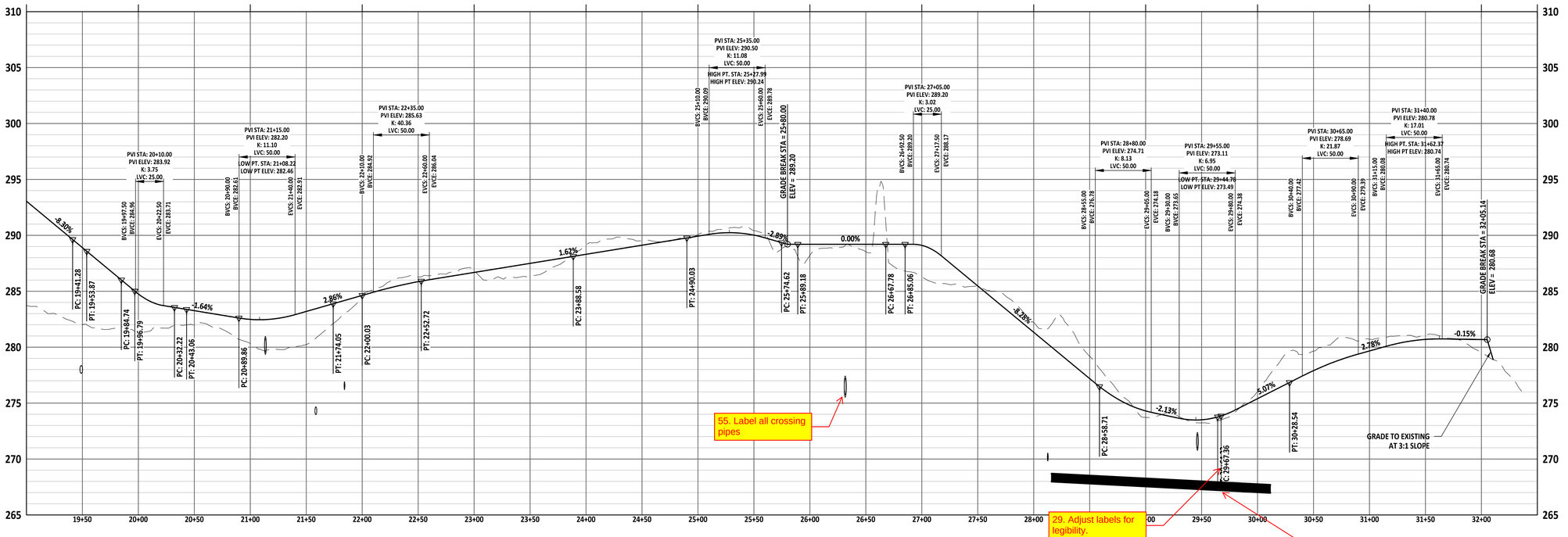
2025-05-01



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



PROJECT NUMBER = PSP-24-07

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GREENWAY PLAN & PROFILE

ROLESVILLE RD
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DATE:	05/01/2025

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GREENWAY PLAN & PROFILE

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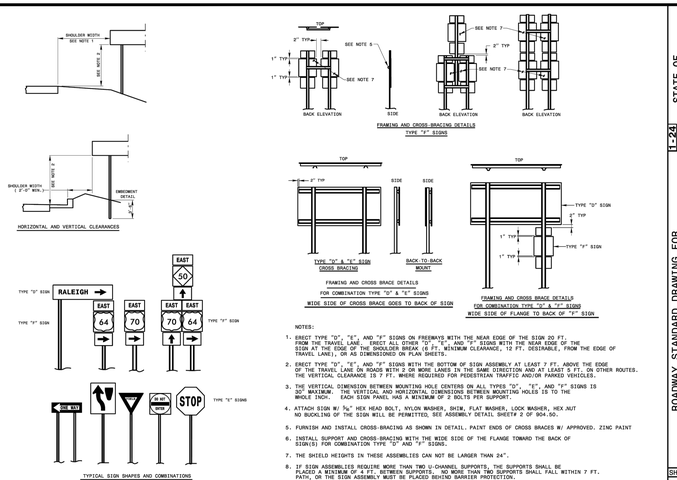
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NOTES:

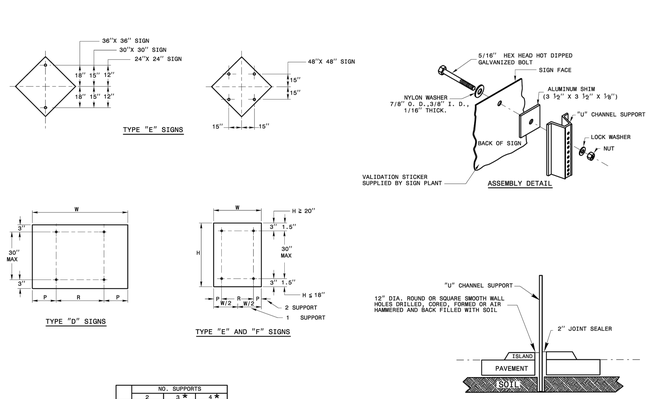
1. ERECT TYPE "D", "E", AND "E" SIGNS ON FREEWAYS WITH THE NEAR EDGE OF THE SIGN 20 FT. FROM THE TRAVEL LANE. ERECT ALL OTHER "D", "E", AND "F" SIGNS WITH THE NEAR EDGE OF THE SIGN AT THE EDGE OF THE SHOULDER BREAK (6 FT. MINIMUM CLEARANCE, 12 FT. DESIRABLE, FROM THE EDGE OF TRAVEL LANE), OR AS DIMENSIONED ON PLAN SHEETS.
2. ERECT TYPE "D", "E", AND "F" SIGNS WITH THE BOTTOM OF SIGN ASSEMBLY AT LEAST 7 FT. ABOVE THE EDGE OF THE TRAVEL LANE ON ROADS WITH 2 OR MORE LANES IN THE SAME DIRECTION AND AT LEAST 5 FT. ON OTHER ROUTES. THE VERTICAL CLEARANCE IS 7 FT. WHERE REQUIRED FOR PEDESTRIAN TRAFFIC AND/OR PARKED VEHICLES.
3. THE VERTICAL DIMENSION BETWEEN MOUNTING HOLE CENTERS ON ALL TYPES "D", "E", AND "F" SIGNS IS 30" MAXIMUM. THE VERTICAL AND HORIZONTAL DIMENSIONS BETWEEN MOUNTING HOLES IS TO THE WHOLE INCH. EACH SIGN PANEL HAS A MINIMUM OF 2 BOLTS PER SUPPORT.
4. ATTACH SIGN W/ ⅜" HEX HEAD BOLT, NYLON WASHER, SHIM, FLAT WASHER, LOCK WASHER, HEX NUT NO BUCKLING OF THE SIGN WILL BE PERMITTED. SEE ASSEMBLY DETAIL SHEETS 2 OF 904.50.
5. FURNISH AND INSTALL CROSS-BRACING AS SHOWN IN DETAIL. PAINT ENDS OF CROSS BRACES W/ APPROVED. ZINC PAINT
6. INSTALL SUPPORT AND CROSS-BRACING WITH THE WIDE SIDE OF THE FLANGE TOWARD THE BACK OF SIGN(S) FOR COMBINATION TYPE "D" AND "F" SIGNS.
7. THE SHIELD HEIGHTS IN THESE ASSEMBLIES CAN NOT BE LARGER THAN 24".
8. IF SIGN ASSEMBLIES REQUIRE MORE THAN TWO U-CHANNEL SUPPORTS, THE SUPPORTS SHALL BE PLACED A MINIMUM OF 4 FT. BETWEEN SUPPORTS. NO MORE THAN TWO SUPPORTS SHALL FALL WITHIN 7 FT. PATH, OR THE SIGN ASSEMBLY MUST BE PLACED BEHIND BARRIER PROTECTION.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
MOUNTING OF TYPE 'D','E' AND 'F' SIGNS ON 'U' CHANNEL SUPPORTS

SHEET 1 OF 2
904.50



	NO. SUPPORTS		
	2	3*	4*
P	.207W	.145W	.107W
R	.586W	.355W	.262W

UNITS ON ATTACHED SHEET
*MINIMUM 4 FT. BETWEEN CHANNEL SUPPORTS

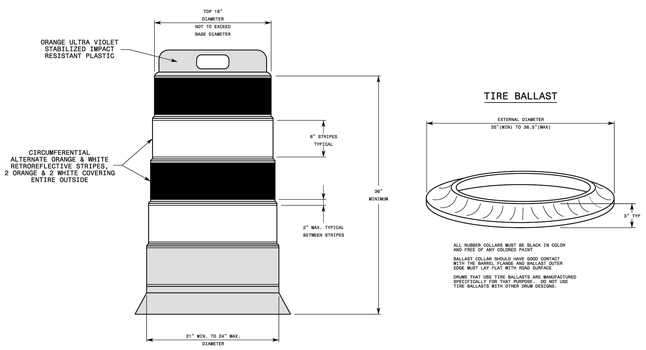
HOLE PUNCHING DETAIL

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
MOUNTING OF TYPE 'D','E' AND 'F' SIGNS ON 'U' CHANNEL SUPPORTS

SHEET 2 OF 2
904.50



ALL RUBBER COLLARS MUST BE BLACK IN COLOR AND FREE OF ANY COLORED PAINT

BALLAST COLLAR SHOULD HAVE GOOD CONTACT WITH ROAD SURFACE. BOTTOM OF BALLAST COLLAR EDGE MUST LAY FLAT WITH ROAD SURFACE

DRUMS THAT USE TIRE BALLASTS ARE MANUFACTURED SPECIFICALLY FOR THAT PURPOSE. DO NOT USE TIRE BALLASTS WITH OTHER DRUM DESIGNS.

GENERAL NOTES

1- BALLASTING SHALL BE ACHIEVED BY THE SAND BAG, TIRE-SIDEWALL, OR PREFORMED WEIGHTED BASE METHODS. USE THE TIRE BALLAST AS SPECIFIED BY THE MANUFACTURER. DO NOT PLACE BALLAST ON TOP OF THE DRUM.

2- IF NECESSARY PLACE THE NAME OF THE AGENCY, CONTRACTOR, OR SUPPLIER ON NON-RETROREFLECTIVE DRUM SURFACES. SHOW THE LETTERS AND NUMBERS USING A NON-RETROREFLECTIVE COLOR AND NOT OVER 2" IN HEIGHT.

3- ALL DRUMS MUST BE LISTED ON THE DEPARTMENT'S APPROVED PRODUCT LIST.

4- REFER TO THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR ADDITIONAL INFORMATION.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
DRUMS

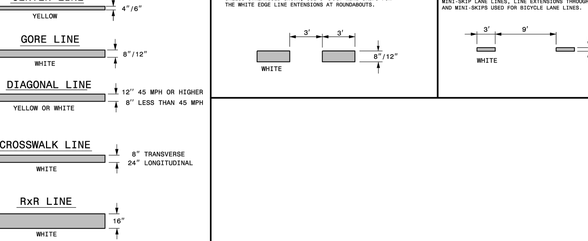
SHEET 1 OF 1
1130.01

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4020 Westchase Boulevard, Suite 450
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919-469-1101

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036528 TAYLOR P. KLEIN

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GENERAL NOTES

1- HORIZONTAL RAILS FOR BARRICADES MAY BE CONSTRUCTED OF APPROVED COMPOSITE, HOLLOW/ CORRUGATED EXTRUDED RIGID POLYOLEFIN, HIGH DENSITY POLYETHYLENE, OR OTHER NCDOT APPROVED MATERIAL.

2- BARRICADE SHALL BE LIMITED TO A MAXIMUM LENGTH OF 8 FT UNLESS NCDOT APPROVED.

3- ONLY NCDOT APPROVED COMPOSITE AND ROLL-UP SIGNS MAY BE MOUNTED ON THE BARRICADE RAILS. MOUNT SIGNS TO BARRICADE RAILS TO ENSURE SIGN WILL NOT BECOME DETACHED UNDER NORMAL WIND AND TRAFFIC CONDITIONS.

4- SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT FROM THE GROUND TO THE BOTTOM OF THE SIGN UNLESS SIGN R11-3 IS REQUIRED BY THE PLANS OR DIRECTED BY THE ENGINEER.

5- ASSEMBLY OF THE GENERIC BARRICADES MUST BE SELF CERTIFIED BY THE ASSEMBLER.

6- BARRICADES USED TO CLOSE A ROADWAY SHALL EXTEND ACROSS THE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED PATTERN.

7- STRIPES ON WORK ZONE BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE RETROREFLECTIVE STRIPES, SLOPED DOWNWARD TOWARDS THE SIDE WHICH TRAFFIC IS TO PASS OR TURN IN DETOURING. WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES.

8- USE RED AND WHITE STRIPES FOR PERMANENT BARRICADES.

9- ALL BARRICADES MUST BE LISTED ON THE DEPARTMENT'S APPROVED PRODUCTS LIST.

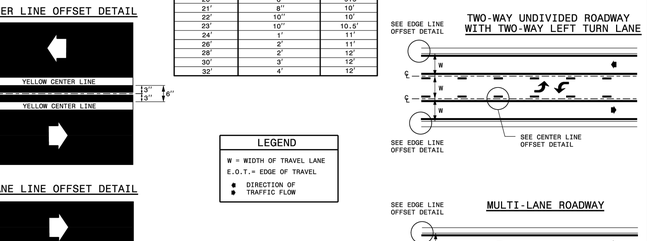
10- PLACE SANDBAGS OR OTHER APPROVED BALLASTING METHODS ON THE FEET OF THE FRAME. DO NOT PLACE SANDBAGS ON TOP OF A STRIPED RAIL OR STABILIZER BAR. DO NOT BALLAST BARRICADES BY HEAVY OBJECTS SUCH AS ROCKS, CHUNKS OF CONCRETE OR OTHER ITEMS THAT WOULD CAUSE DAMAGE IF THE BARRICADE IS STRUCK BY A VEHICLE.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
BARRICADES
TYPE-III

SHEET 1 OF 1
1145.01



GENERAL NOTES

1- ACHIEVE BALLASTING BY USING SPECIAL WEIGHTED BASES SUCH AS SAND BAG RINGS, DOUBLING CONES, OR BASES THAT CAN BE FILLED WITH BALLAST. SEVENTY PERCENT OF THE WEIGHT OF THE CONE MUST BE IN THE BASE. USE BALLAST'S THAT DO NOT PRESENT A HAZARD WHEN STRUCK.

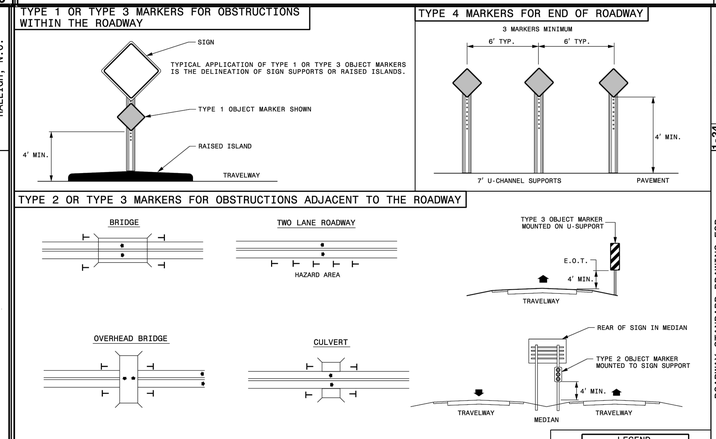
2- ALL CONES MUST BE LISTED ON THE DEPARTMENT'S APPROVED PRODUCTS LIST.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
CONES

SHEET 1 OF 1
1135.01



TYPICAL APPLICATIONS OF TYPE 2 OR TYPE 3 OBJECT MARKERS INCLUDES DELINEATION OF BRIDGE PIERS, ABUTMENTS, HANDRAILS, CULVERT HEADWALLS, NARROW SHOULDERS, DROP-OFFS, OR OTHER UNDESIRABLE CONDITIONS WHEN GUARDRAIL OR OTHER ROADSIDE PROTECTION IS NOT IN PLACE.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
OBJECT MARKERS
INSTALLATION

SHEET 1 OF 1
1264.02

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GENERAL NOTES:

1- USE 6" LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER.

2- LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.

3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
LINE TYPES AND OFFSETS

SHEET 1 OF 2
1205.01

TABLE 1

EDGE LINE OFFSETS FOR 2-LANE, 2-WAY ROADWAYS WITH UN-PAVED SHOULDERS

WIDTH (W) OF TRAVEL PAVEMENT	MAX. EDGE LINE OFFSET FROM E.O.T.	MINIMUM LANE WIDTH (W)
16' - 18'	2"	8' - 9'
19'	4"	9'
20'	6"	9.5'
21'	8"	10'
22'	10"	10'
23'	10"	10.5'
24'	1'	11'
26'	2'	11'
28'	2'	12'
30'	3'	12'
32'	4'	12'

LEGEND

W = WIDTH OF TRAVEL LANE
E.O.T.= EDGE OF TRAVEL
DIRECTION OF TRAFFIC FLOW

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
LINE TYPES AND OFFSETS

SHEET 2 OF 2
1205.01

MERRITT RESERVE
NCDOT DETAILS
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
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DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
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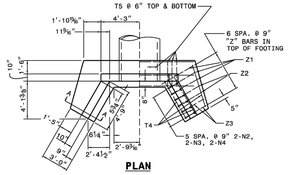
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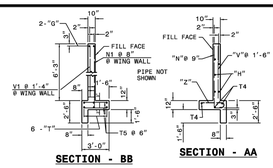
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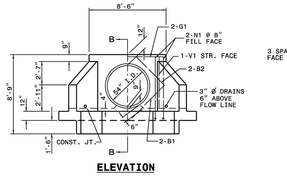
North Carolina 811 one call
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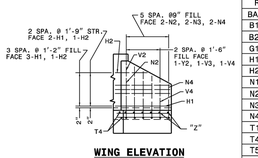
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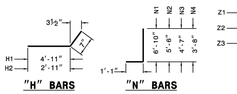
2025-05-01











SEE STD. DWG. 838.45 FOR GENERAL NOTES.

BILL OF MATERIAL FOR ENDWALL

REINF. STEEL			1 PIPE	
BAR	SIZE	LENGTH	NO.	WGT
B1	#4	5'-6"	4	15
B2	#4	4'-6"	4	12
G1	#7	8'-8"	2	33
H1	#4	5'-6"	10	37
H2	#4	3'-6"	4	9
N1	#4	7'-11"	4	21
N2	#4	6'-7"	4	18
N3	#4	5'-8"	4	15
N4	#4	4'-9"	4	13
T1	#4	11'-10"	6	47
T4	#4	5'-3"	6	21
T5	#4	2'-6"	34	57
V1	#4	5'-9"	2	8
V2	#4	4'-10"	2	6
V3	#4	3'-11"	2	5
V4	#4	3'-1"	2	4
Z1	#4	3'-11"	6	16
Z2	#4	3'-6"	4	9
Z3	#4	3'-1"	4	8
REINF. STEEL LBS.				354
CON./R.C. CU. YDS				5.0

"H", "N", & "Z" BAR DIMENSIONS ARE OUT TO OUT.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-23

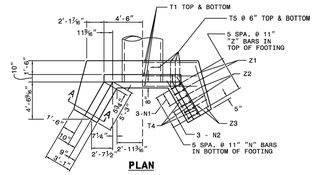
ROADWAY STANDARD DRAWING FOR

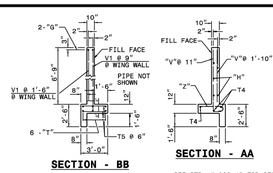
REINFORCED CONCRETE ENDWALL

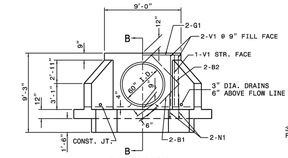
FOR SINGLE 54" PIPE - 90° SKEW

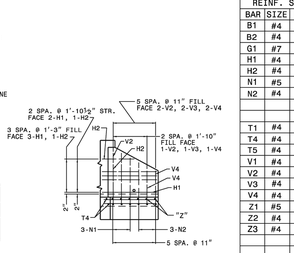
SHEET 1 OF 2

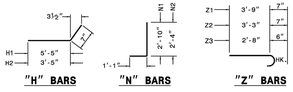
838.21











SEE STD. # 838.45 FOR GENERAL NOTES.

BILL OF MATERIAL FOR ENDWALL

REINF. STEEL			1 PIPE	
BAR	SIZE	LENGTH	NO.	WGT
B1	#4	5'-6"	4	15
B2	#4	4'-6"	4	12
G1	#7	8'-8"	2	35
H1	#4	6'-0"	10	40
H2	#4	4'-0"	4	11
N1	#5	3'-11"	10	41
N2	#4	3'-5"	6	14
T1	#4	12'-8"	6	51
T4	#4	5'-6"	6	22
T5	#4	2'-6"	36	60
V1	#4	6'-3"	6	25
V2	#4	5'-1"	6	20
V3	#4	3'-11"	6	16
V4	#4	2'-9"	6	11
Z1	#5	4'-4"	4	18
Z2	#4	3'-10"	4	10
Z3	#4	3'-2"	4	8
REINF. STEEL LBS.				409
CON./R.C. CU. YDS				5.6

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-23

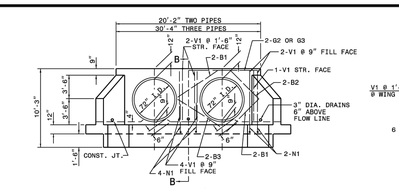
ROADWAY STANDARD DRAWING FOR

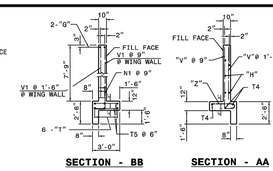
REINFORCED CONCRETE ENDWALL

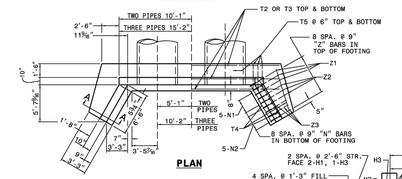
FOR SINGLE 60" PIPE - 90° SKEW

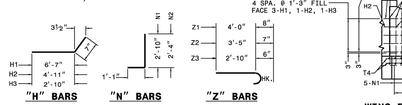
SHEET 1 OF 2

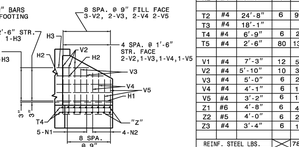
838.27











SEE STD. # 838.45 FOR GENERAL NOTES.

BILL OF MATERIAL FOR ENDWALL

REINF. STEEL			2 PIPES		3 PIPES	
BAR	SIZE	LENGTH	NO.	WGT	NO.	WGT
B1	#4	5'-6"	8	29	12	44
B2	#4	4'-6"	4	12	4	12
B3	#4	7'-0"	4	19	8	37
G2	#7	19'-10"	2	81	-	-
G3	#7	30'-0"	-	-	2	123
H1	#4	7'-2"	10	48	10	48
H2	#4	5'-6"	2	7	2	7
H3	#4	3'-5"	4	9	4	9
N1	#5	3'-11"	18	74	22	90
N2	#4	3'-5"	8	18	8	18
T2	#4	24'-8"	6	99		
T3	#4	18'-1"			12	145
T4	#4	6'-9"	6	22	6	27
T5	#4	2'-6"	80	134	122	204
V1	#4	7'-3"	12	58	18	87
V2	#4	5'-10"	10	39	10	39
V3	#4	5'-0"	6	20	6	20
V4	#4	4'-1"	6	16	6	16
V5	#4	3'-2"	6	13	6	13
Z1	#6	4'-8"	6	42	6	42
Z2	#5	4'-0"	6	25	6	25
Z3	#4	3'-4"	6	13	6	13
REINF. STEEL LBS.			783	1016		
CON./R.C. CU. YDS			9.8	12.5		

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-23

ROADWAY STANDARD DRAWING FOR

REINFORCED CONCRETE ENDWALL

FOR DOUBLE AND TRIPLE 72" PIPE - 90° SKEW

SHEET 1 OF 2

838.40

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 JACOB P. KLEIN

PRELIMINARY

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER CERTIFICATE OF AUTHORIZATION C-3881

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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MERRITT RESERVE

NCDOT DETAILS

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

NCDOT DETAILS

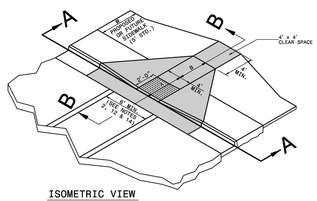
SHEET NO.:

CS-501

North Carolina 811 811.ncdot.gov
*** 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\45. CS500-502 CIVIL DETAILS.dwg

2025-05-01

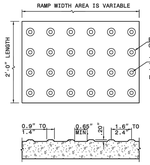


ISOMETRIC VIEW

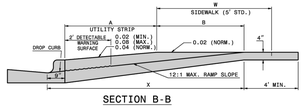
PAY LIMITS FOR CURB RAMP

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

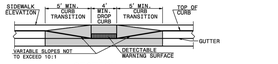
DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



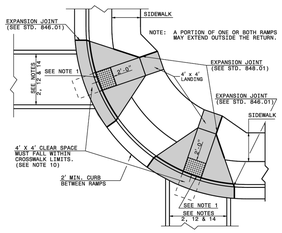
DETECTABLE WARNING SURFACE



SECTION B-B



SECTION A-A



PLAN VIEW
DUAL RAMPS
ANY RADII
(4' MIN. FLOOR WIDTH)

W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0'*
6'	0.0'	6.8'	6.8'	6.0'*
7'	0.0'	7.8'	7.3'	6.5'**
8'	0.0'	8.8'	7.3'	6.5'**
5'	2.0'	7.8'	7.8'	5.0'
5'	3.3'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7	3.4'
5'	5.0'	10.8'	8.9'	3.1'

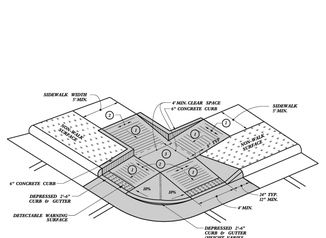
B = X-(A+9")
B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04.

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ROADWAY STANDARD DRAWING FOR
CURB RAMP
PROPOSED CURB AND GUTTER

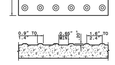
SHEET 1 OF 13
848.06



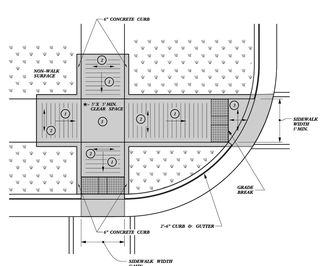
TYPE 5

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE



★ - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE A MINIMUM 5' X 5' DIAGONAL WITH 3' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

TYPE 5A

① 8.33% (12:1) MAX RAMP SLOPE
② CROSS SLOPE: 2.00%
③ MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

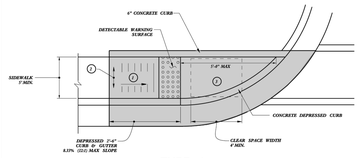
PAY LIMITS FOR 1 OR 2 CURB RAMPS (CALCULATE BASED ON NUMBER OF SETS OF DETECTABLE WARNING SURFACES)

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

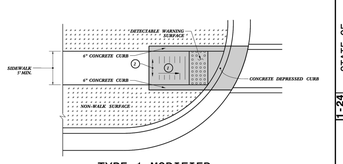
1-24

ROADWAY STANDARD DRAWING FOR
CURB RAMP
SHARED LANDING

SHEET 11 OF 13
848.06



TYPE 1

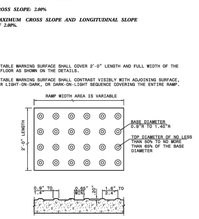


TYPE 1 MODIFIED

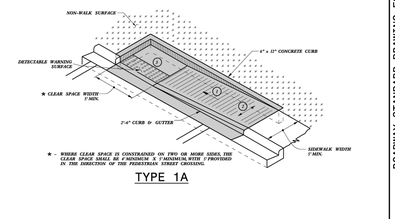
① 8.33% (12:1) MAX RAMP SLOPE
② CROSS SLOPE: 2.00%
③ MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE



★ - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE A MINIMUM 5' X 5' DIAGONAL WITH 3' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

TYPE 1A

PAY LIMITS FOR 1 CURB RAMP

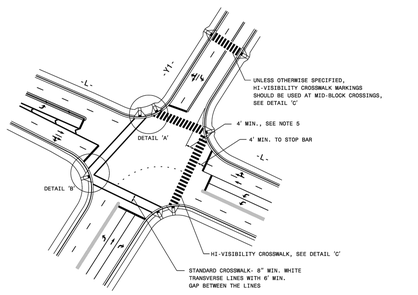
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

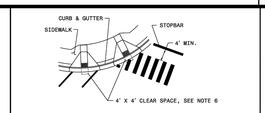
1-24

ROADWAY STANDARD DRAWING FOR
CURB RAMP
DIRECTIONAL RAMP

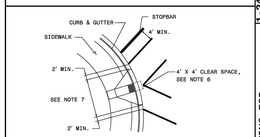
SHEET 6 OF 13
848.06

CROSSWALK PLACEMENT GUIDANCE

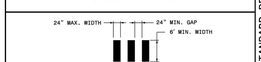




DETAIL 'A'- DUAL CURB RAMPS



DETAIL 'B'- SINGLE DIAGONAL CURB RAMP



DETAIL 'C'- HI-VISIBILITY CROSSWALK

GENERAL NOTES:
1- USE THE DETAILS ABOVE AND THE FOLLOWING NOTES FOR GUIDANCE IN PLACING CROSSWALK MARKINGS. REFER TO NCDOT ROADWAY STANDARD DRAWINGS, MUTCD AND ADA STANDARDS FOR ADDITIONAL GUIDANCE.

2- THE LOCATION AND TYPE OF CROSSWALK MARKINGS SHOWN ON THE ABOVE DETAILS ARE FOR REFERENCE ONLY. LOCATE CROSSWALK MARKINGS AS SHOWN ON THE PROJECT DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER. THE CROSSWALK MARKING TYPE, STANDARD OR HI-VISIBILITY, SHALL BE INSTALLED AS SPECIFIED ON THE PROJECT DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER.

3- THE STANDARD CROSSWALK IS TWO WHITE 8" MIN. TRANSVERSE LINES WITH A 6' MIN. GAP BETWEEN THE LINES. THE HI-VISIBILITY CROSSWALK IS WHITE 24" MAX. WIDE LONGITUDINAL LINES WITH 24" MIN. GAPS BETWEEN LINES, SEE DETAIL 'C'. HI-VISIBILITY CROSSWALKS SHOULD BE A MINIMUM OF 6' WIDE. CURB RAMPS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARES.

4- STOP BARS SHOULD BE PLACED A 4' MIN. IN ADVANCE OF NEAREST CROSSWALK LINE.

5- SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4' MIN.

6- BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4' X 4' MIN. SHALL BE PROVIDED WITHIN THE MARKINGS.

7- SINGLE DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 2' MIN. LONG LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING, SEE DETAIL 'B'.

8- CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR DETAILS OR A SPECIAL DESIGN.

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
PEDESTRIAN CROSSWALKS

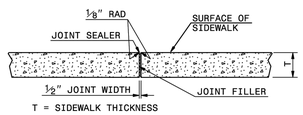
SHEET 1 OF 2
1205.07

NOTES:

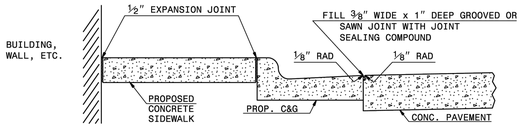
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH ⅛" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE ½" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A ½" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.05 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT IN SIDEWALK



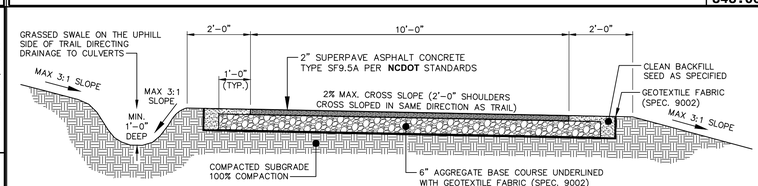
DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-24

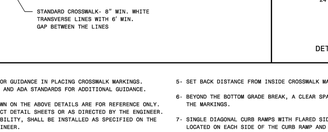
ROADWAY STANDARD DRAWING FOR
CONCRETE SIDEWALK

SHEET 1 OF 1
848.01



NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ALL SLOPES DISTURBED BY CONSTRUCTION.
2. NO ABOVE GROUND UTILITIES OR UTILITY SURFACE COVERS/PLATES/MANHOLES SHALL BE LOCATED WITHIN TRAIL AND SHALL BE MINIMUM 2 FEET FROM THE EDGE OF TRAIL. RAISED MANHOLES SHALL BE MINIMUM 4 FEET FROM TRAIL EDGE.
3. ALL TRAILS SHALL BE LOCATED MINIMUM 5 FEET FROM THE BACK OF CURB.
4. SIDE SLOPES SHALL NOT EXCEED 3:1. CUT & FILL SLOPES SHALL TIE INTO EXISTING SLOPES TO CREATE AN EVEN TRANSITION.
5. CROSS SLOPE TYPICALLY TO LOW SIDE BUT CROSS SLOPE TO INSIDE OF DOWNHILL CURVES, WITH GRADUAL TRANSITIONS BETWEEN ANY CROSS SLOPE DIRECTION CHANGES.

STANDARD 10-FT GREENWAY TRAIL

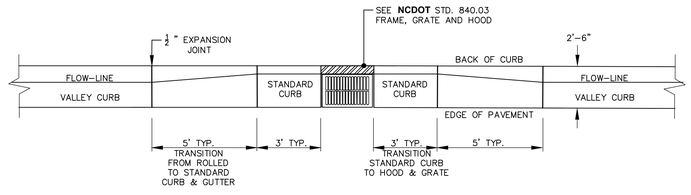


30" STANDARD CURB & GUTTER

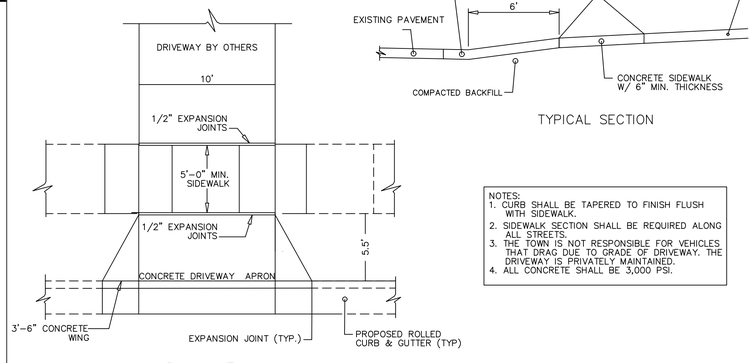
VALLEY GUTTER

NOTES:
1. CONCRETE SHALL BE 3000 PSI.
2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS OR 15' INTERVALS WHEN A MACHINE IS USED.
3. EXPANSION JOINTS SHALL BE SPACED AT 50' INTERVALS.
4. FINISH ALL CONCRETE WITH CURING COMPOUND.
5. FOLLOW ALL APPLICABLE ACI REQUIRMENTS.
6. ROLLED CURB SHALL ONLY BE USED FOR APPROVED APPLICATIONS.

CURB & GUTTER



CONCRETE CURB AND GUTTER TRANSITION
(VALLEY CURB TO STANDARD CURB)



NOTES:
1. CURB SHALL BE TAPERED TO FINISH FLUSH WITH SIDEWALK.
2. SIDEWALK SECTION SHALL BE REQUIRED ALONG ALL STREETS.
3. THE TOWN IS NOT RESPONSIBLE FOR VEHICLES THAT DRAG DUE TO GRADE OF DRIVEWAY. THE DRIVEWAY IS PRIVATELY MAINTAINED.
4. ALL CONCRETE SHALL BE 3,000 PSI.

DRIVEWAY APRON

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-3861 CERTIFICATE OF AUTHORIZATION

PRELIMINARY
PRELIMINARY - NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
36528
JAKOB P. KLEE
ENGINEER
FOR INFORMATION, ONLY

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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

MERRITT RESERVE
NCDOT DETAILS
ROLESVILLE RD
WAKE COUNTY NC 27312

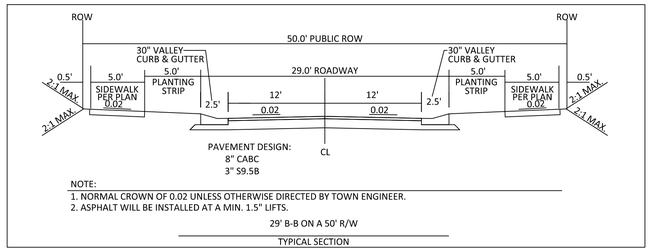
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
NCDOT DETAILS

SHEET NO.:
CS-502

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

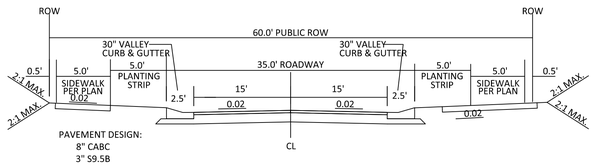
Z:\Jobs\23-0004 Merrit Property BRD\dwg_Working Dwgs\Sheets\Construction Set\45_CS500-502 CIVIL DETAILS.dwg
2025-05-01



NOTE:
1. NORMAL CROWN OF 0.02 UNLESS OTHERWISE DIRECTED BY TOWN ENGINEER.
2. ASPHALT WILL BE INSTALLED AT A MIN. 1.5" LIFTS.

29' B-B ON A 50' R/W

TYPICAL SECTION

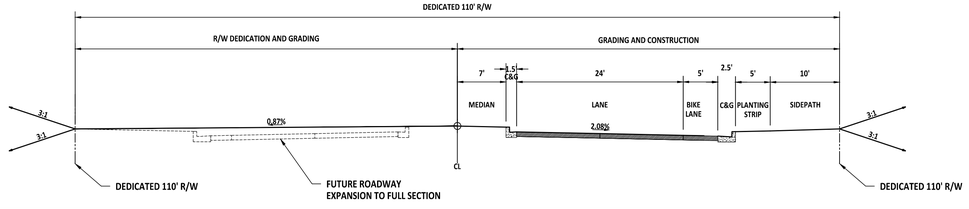


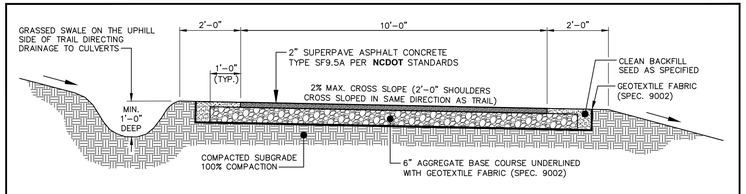
NOTE:
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2. ASPHALT WILL BE INSTALLED AT A MIN. 1.5" LIFTS.

35' B-B ON A 60' R/W

TYPICAL SECTION

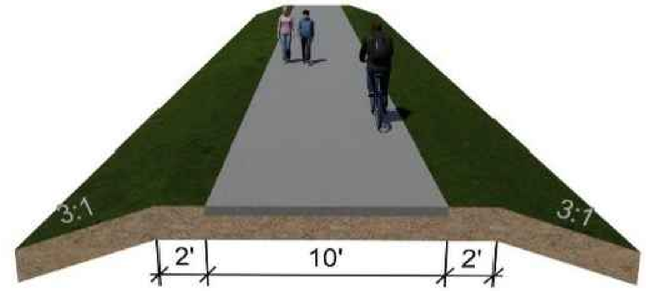
FOWLER ROAD 33' B-B ON A 110' R/W
FULL SECTION GRADING, HALF SECTION CONSTRUCTION
14' MEDIAN
NOT TO SCALE



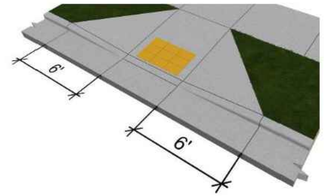


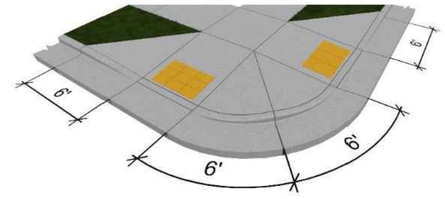
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STANDARD 10-FT/STREET-SIDE TRAIL ASPHALT GREENWAY TRAIL



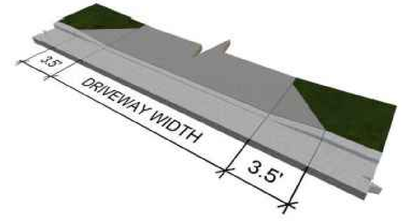
TYPICAL GREENWAY TRAIL DETAIL
NTS





HANDICAP RAMP DETAIL
NTS

Driveway cuts will be required on residential collector streets. The curb transition shall occur throughout the concrete wing, over 3.5 feet.



If driveway spacing results in less than 8 feet of standard curb between driveways, an exception to use 30-inch valley curb may be granted by the Town Engineer on a case-by-case basis.

DRIVEWAY CUT DETAIL
NTS

PROJECT NUMBER = PSP-24-07

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. KLEE
DO NOT USE FOR CONSTRUCTION
FOR INFORMATION, ONLY

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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MERRITT RESERVE
SITE DETAILS
ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
SITE DETAILS

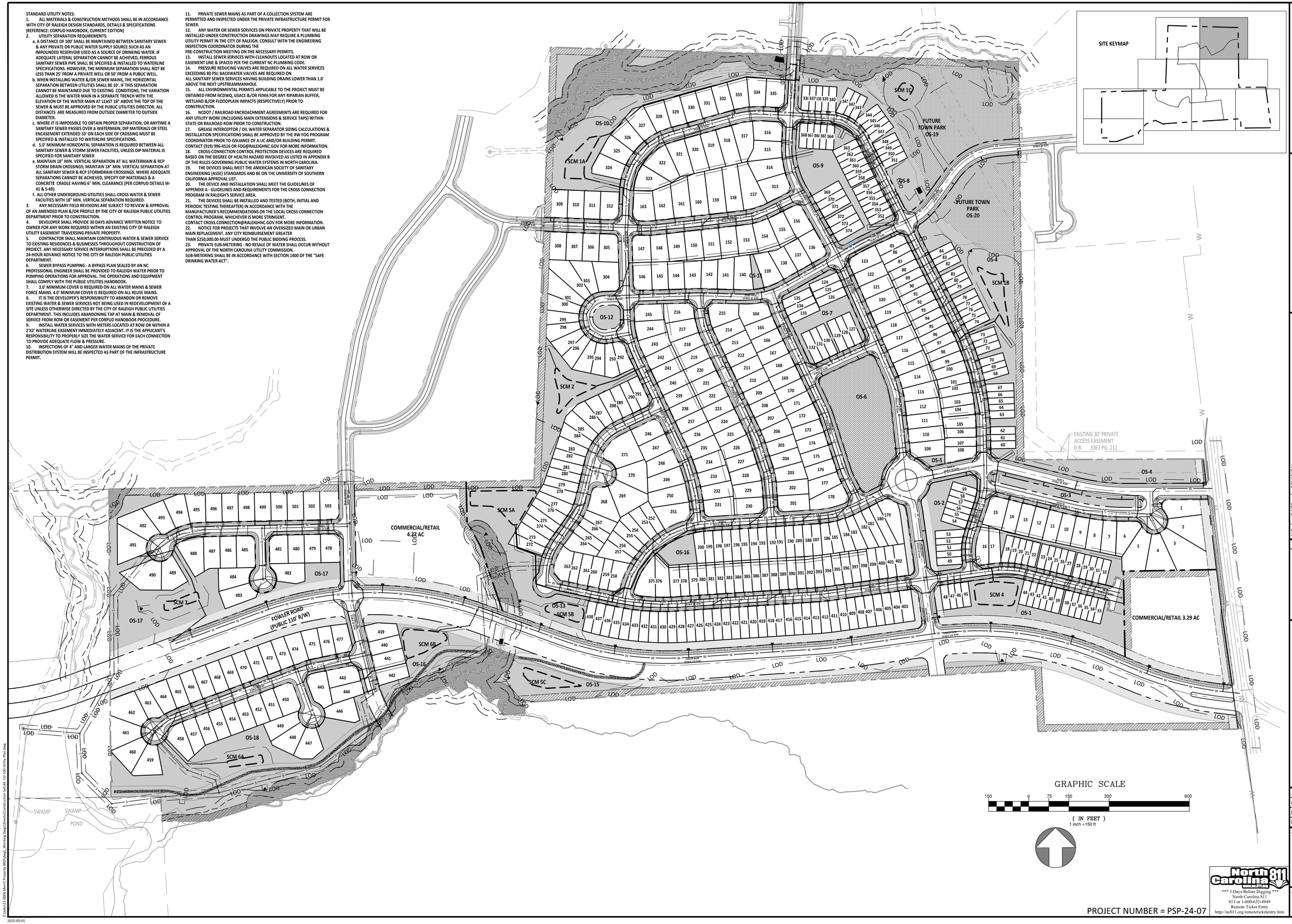
SHEET NO.:
CS-503

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 BBP\Dwg_Working Dwgs\Sheets\Construction Set\04. CS500-502 CIVIL DETAILS.dwg
2025-05-01

STANDARD UTILITY 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. SEWER BYPASS PUMPING - A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER PRIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES HANDBOOK.
7. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
8. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
9. INSTALL WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
10. INSPECTIONS OF 4" AND LARGER WATER MAINS OF THE PRIVATE DISTRIBUTION SYSTEM WILL BE INSPECTED AS PART OF THE INFRASTRUCTURE PERMIT.
11. PRIVATE SEWER MAINS AS PART OF A COLLECTION SYSTEM ARE PERMITTED AND INSPECTED UNDER THE PRIVATE INFRASTRUCTURE PERMIT FOR SEWER.
12. ANY WATER OR SEWER SERVICES ON PRIVATE PROPERTY THAT WILL BE INSTALLED UNDER CONSTRUCTION DRAWINGS MAY REQUIRE A PLUMBING UTILITY PERMIT IN THE CITY OF RALEIGH. CONSULT WITH THE ENGINEERING INSPECTION COORDINATOR DURING THE PRE-CONSTRUCTION MEETING ON THE NECESSARY PERMITS.
13. INSTALL SEWER SERVICES WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED PER THE CURRENT NC PLUMBING CODE.
14. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAMMANHOLE.
15. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
16. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
17. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT. CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
18. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA.
19. THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.
20. THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A - GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
21. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH, INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.
22. NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER THAN $250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS.
23. PRIVATE SUB-METERING - NO RESALE OF WATER SHALL OCCUR WITHOUT APPROVAL OF THE NORTH CAROLINA UTILITY COMMISSION. SUB-METERING SHALL BE IN ACCORDANCE WITH SECTION 1400 OF THE "SAFE DRINKING WATER ACT".



GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)

1 inch =150 ft

PROJECT NUMBER = PSP-24-07

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-3851
CERTIFICATE OF AUTHORIZATION

PRELIMINARY

NOT FOR RECORDATION, SALES OR CONSTRUCTION

JAKOB P. KLEIN
36528
ENGINEER

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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MERRITT RESERVE

UTILITY PLAN OVERALL

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

UTILITY PLAN OVERALL

SHEET NO.:

CU-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 (BRD.dwg)_Working Dwgs\Sheets\Construction Set\46. CU-100 Utility Plan.dwg

2025-05-01

SEE SHEET CU-102

96. Review the plans to ensure there are no conflicts with sewer service and storm

97. Review plans to ensure the minimum separation requirements between storm and water are being provided.

97. Review the plans to ensure there are no conflicts between sewer and water

33. Adjust plot styles to eliminate color.

SEE SHEET CU-106

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

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

ROAD A (PUBLIC 60' R/W)
ROAD B (PUBLIC 50' R/W)
ROAD C (PUBLIC 50' R/W)
ROAD M (PUBLIC 50' R/W)
ROAD (PUBLIC 10' R/W)

OS-1
OS-3
OS-4

SCM 4

COMMERCIAL/RETAIL 3.29 AC

50' R/W DEDICATION

TEMPORARY ACCESS AND CONSTRUCTION EASEMENT

10' SIDEPATH

10' CONCRETE SIDE PATH

5' SIDEWALK

20' PUBLIC DRAINAGE EASEMENT

20' PRIVATE DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

3' COR UTILITY PUBLIC EASEMENT

CONNECT TO EXISTING 16" WATERLINE

FIRE HYDRANT

8" DIP W

12" DIP W

CB 401, CB 402, CB 403, CB 404, CB 405, CB 406, CB 407, CB 407A, CB 408, CB 409, CB 410, CB 419, CB 420, CB 421, CB 422, CB 422A, CB 422C, CB 422D, CB 422E, CB 423, CB 423A, CB 424, CB 425, CB 426, CB 427, CB 428, CB 429, CB 429A, CB 568, CB 569, CB 570, CB 571, CB 572, CB 572A

MH 127, MH 128, MH 129, MH 130, MH 131, MH 230, MH 231, MH 232, MH 234, MH 235

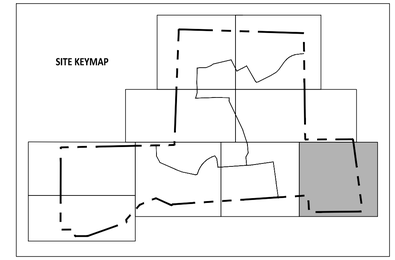
YI 404A, YI 407B, YI 407C, YI 407D, YI 407E, YI 422B

FES 400, FES-OS-4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59

LOD

SITE KEYMAP



UTILITY PLAN LEGEND

WATER VALVE	
SEWER METER	
WATER METER	
FH	
MANHOLE	
WATER LINE	
SCM LOCATIONS	
SEWER LINE	
30' STREETSCAPE BUFFER	
PERIMETER BUFFER	
NEUSE RIVER BUFFER	

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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 OR CONSTRUCTION
JACOB P. KLEIN 36528 ENGINEER

FOR INFORMATION, ONLY

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MERRITT RESERVE

UTILITY PLAN

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

UTILITY PLAN

SHEET NO.:

CU-101

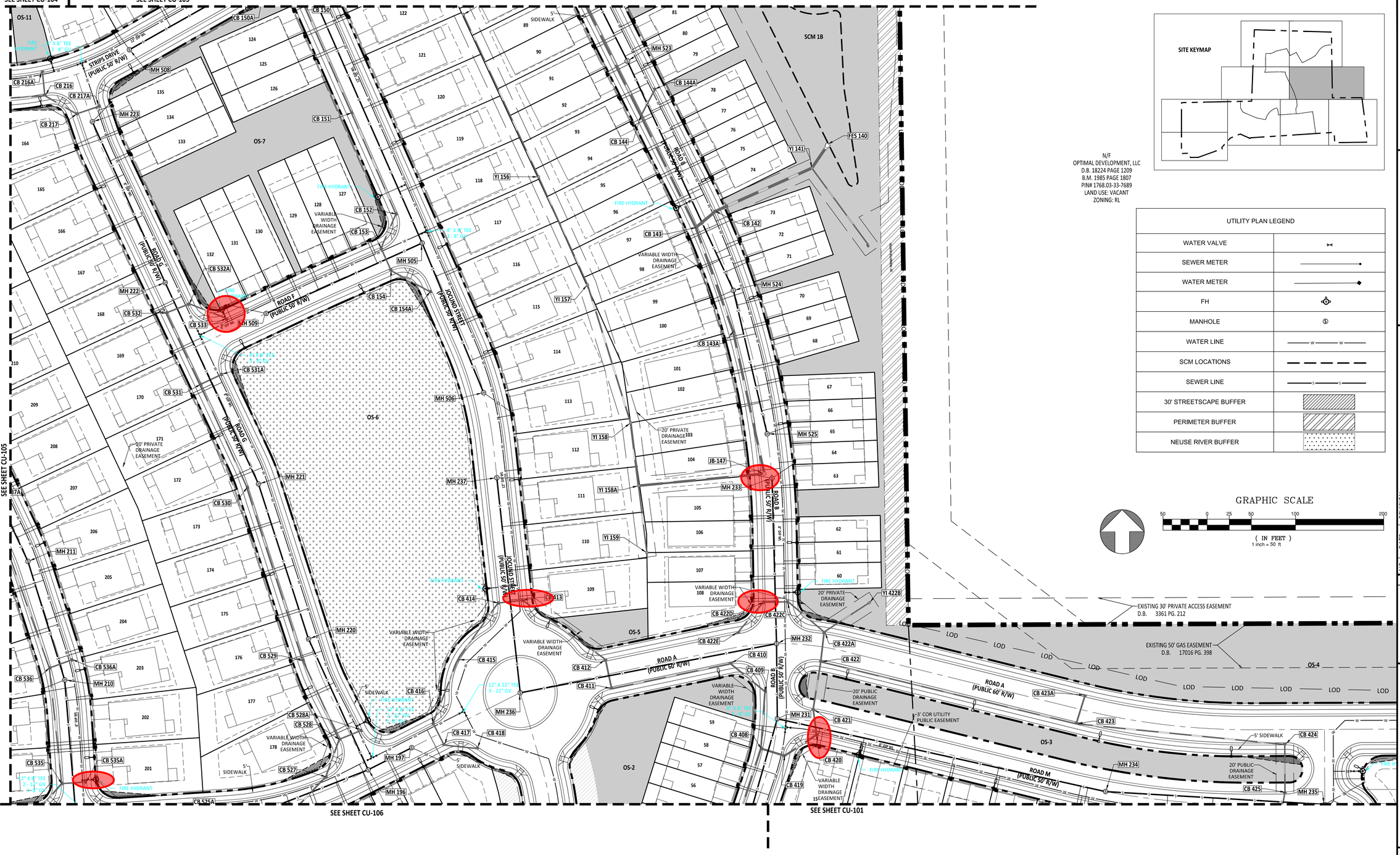
North Carolina 811 Call Before You Dig

*** 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 880\Plans_Working Dwgs\Sheets\Construction Set\47 - CU-101 Utility Plan (50 Scale).dwg

2025-05-01

SEE SHEET CU-104
SEE SHEET CU-103
SEE SHEET CU-105
SEE SHEET CU-106
SEE SHEET CU-101



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

SITE KEYMAP

UTILITY PLAN LEGEND	
WATER VALVE	
SEWER METER	
WATER METER	
FH	
MANHOLE	
WATER LINE	
SCM LOCATIONS	
SEWER LINE	
30' STREETSCAPE BUFFER	
PERIMETER BUFFER	
NEUSE RIVER BUFFER	

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

PROJECT NUMBER = PSP-24-07

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 36528 ENGINEER JAKOB P. KLEIN
FOR INFORMATION, ONLY

NO.	DATE	REVISION:

STIPULATION FOR REUSE

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MERRITT RESERVE
ROLESVILLE RD
WAKE COUNTY NC 27312

UTILITY PLAN

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

UTILITY PLAN

SHEET NO.:
CU-102

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\47- CU-101-103 Utility Plan SS Scale\.dwg
2025-05-01

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: R8&PUD

MATCH 11' EXISTING LANES AND REMOVE HAMMERHEAD

TEMPORARY CONSTRUCTION EASEMENT

CONNECT TO EXISTING 12" DIP WATERLINE

HW 10

EW 11

CB 138

CB 137

MH 500

CB 125

CB 125A

CB 126

CB 131A

MH 501

CB 131

CB 127

CB 128

CB 129

CB 130

CB 132

JB 133

YI 133A

MH 521

CB 134

CB 134A

MH 502

YI 136B

CB 136

CB 136A

MH 503

20' PRIVATE DRAINAGE EASEMENT

OS-9

VARIABLE WIDTH DRAINAGE EASEMENT

FIRE HYDRANT

12" X 8" TEE
2 - 12" GV
1 - 8" GV

12" X 8" CROSS
2 - 12" GV
2 - 8" GV

8" DIP WL

12" DIP WL

FOUNDERS STREET
PUBLIC 66' R/W

SECOND STREET
(PUBLIC 66' R/W)

STRIPS DRIVE
(PUBLIC 60' R/W)

FUTURE TOWN PARK OS-19

EXISTING 50' GAS EASEMENT
D.B. 16741 PG. 120

YI 162

CONNECT TO EXISTING 12" DIP WATERLINE

OS-8

EXISTING WETLAND (TYP)

CB 163

CB 164

EW 21

FES-OS-1C

OS-1C

SCM1C

FES 160

YI 161

FUTURE TOWN PARK OS-20

CB 145D

CB 145C

CB 146B

MH 522

CB 145B

CB 145A

CB 146A

CB 146

FES 146C

MH 507

CB 145

HW 20

3' COR UTILITY PUBLIC EASEMENT

FES-OS-1B

OS-4

OS-1B

SCM 1B

MH 523

CB 144A

MH 504

CB 148

CB 149

CB 150

CB 150A

YI 155

MH 508

CB 216

CB 111A

CB 111

CB 112A

MH 544

CB 112

20' PRIVATE DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

SIDEWALK

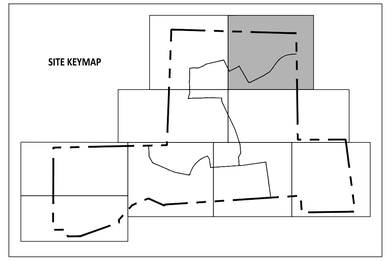
ASHTON RALEI
D.B. 177
B.M. 20
PIN# 176
LAND L
ZONI

SEE SHEET CU-104

SEE SHEET CU-102

PROJECT NUMBER = PSP-24-07

SITE KEYMAP



UTILITY PLAN LEGEND	
WATER VALVE	
SEWER METER	
WATER METER	
FH	
MANHOLE	
WATER LINE	W W
SCM LOCATIONS	
SEWER LINE	S S
30' STREETSCAPE BUFFER	
PERIMETER BUFFER	
NEUSE RIVER BUFFER	

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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:

STIPULATION FOR REUSE

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MERRITT RESERVE

UTILITY PLAN (50 SCALE)

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

UTILITY PLAN (50 SCALE)

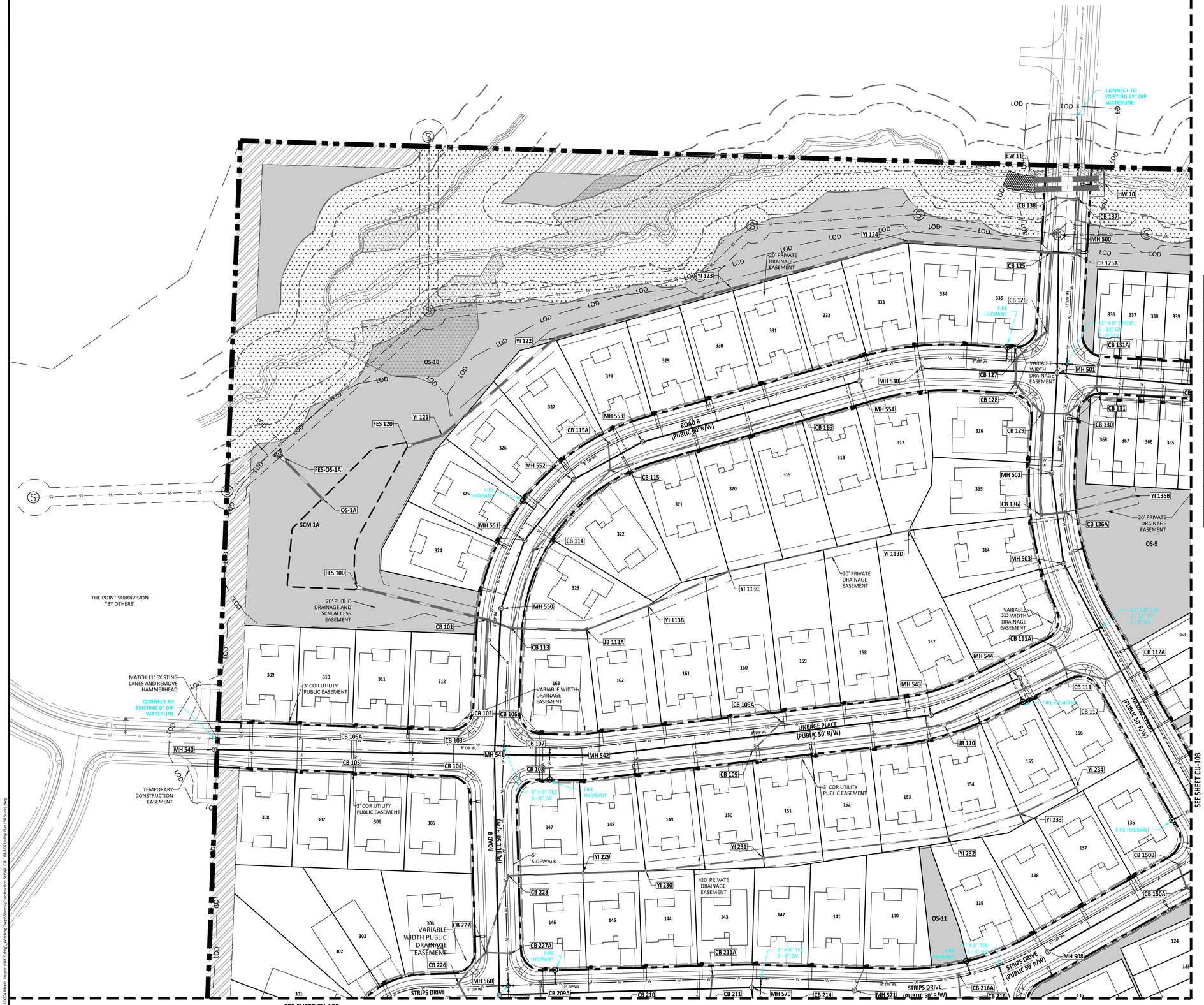
SHEET NO.:

CU-103

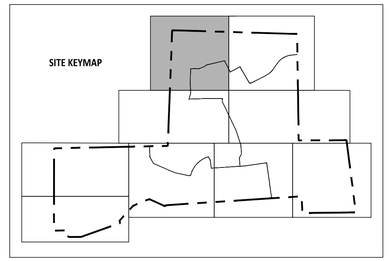
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property @RR\Rwk_Working Dwgs\Sheets\Construction Set\CF- CU-103 103 Utility Plan 150 Scale\.dwg

2025-05-01



SITE KEYMAP



UTILITY PLAN LEGEND	
WATER VALVE	
SEWER METER	
WATER METER	
FH	
MANHOLE	
WATER LINE	
SCM LOCATIONS	
SEWER LINE	
30' STREETSCAPE BUFFER	
PERIMETER BUFFER	
NEUSE RIVER BUFFER	

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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 CONSTRUCTION

NORTH CAROLINA 36528 ENGINEER JAKOB P. KLEIN

FOR INFORMATION, ONLY

REVISION:	DATE	NO.

STIPULATION FOR REUSE

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MERRITT RESERVE

ROLESVILLE RD
WAKE COUNTY NC 27312

UTILITY PLAN

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

UTILITY PLAN

SHEET NO.:

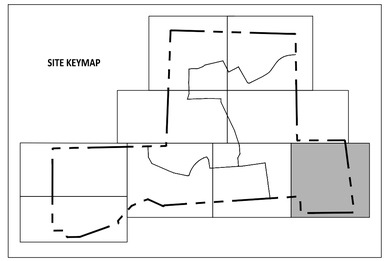
CU-104

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

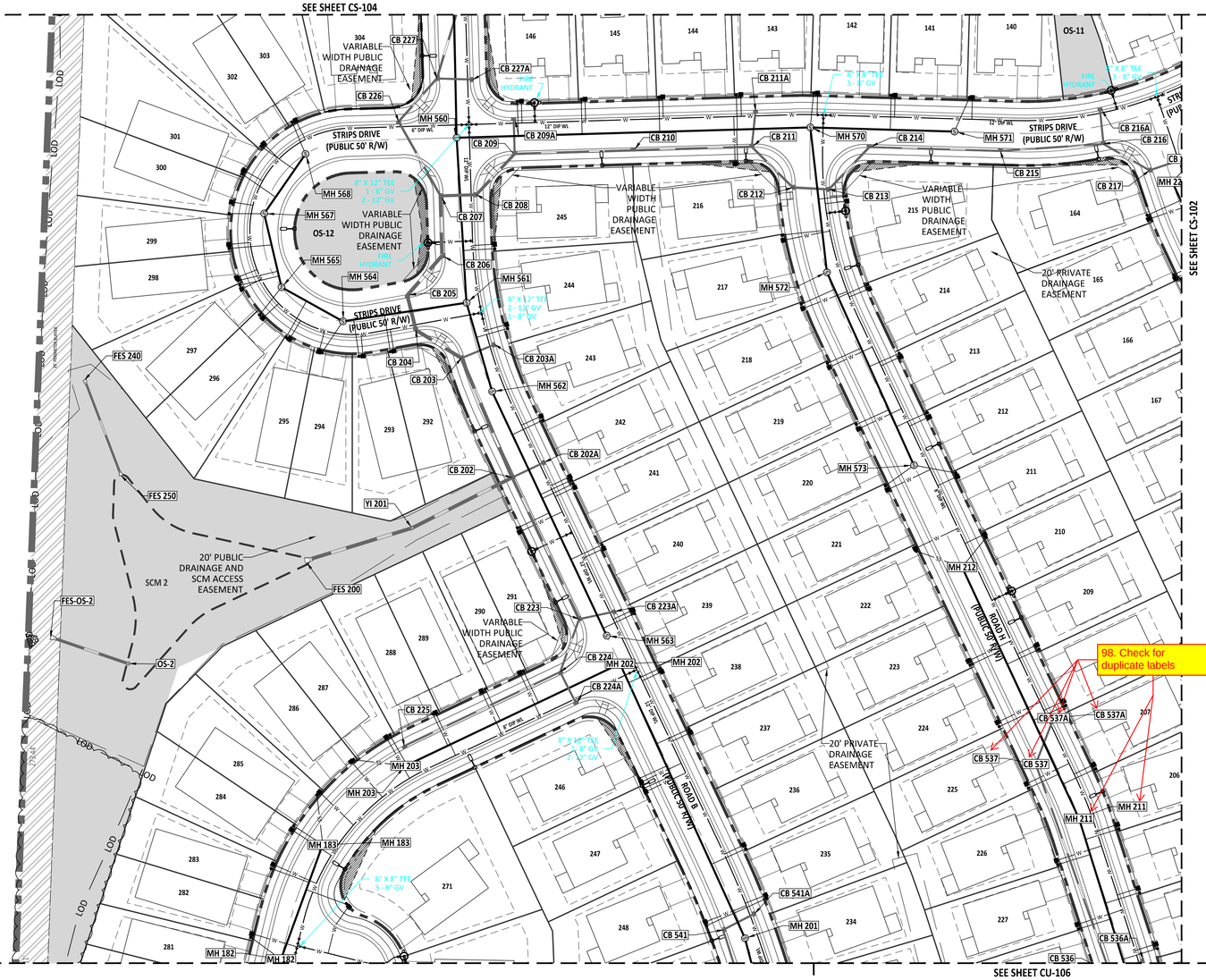
Z:\Jobs\23-0004 Merrit Property (BRP)\Arch_Working Dwgs\Sheets\Construction Set\04_CU-104_Utility Plan (50 Scale).dwg

2025-05-01

SITE KEYMAP



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



UTILITY PLAN LEGEND	
WATER VALVE	
SEWER METER	
WATER METER	W W
FH	
MANHOLE	
WATER LINE	W W
SCM LOCATIONS	
SEWER LINE	SS SS
30' STREETSCAPE BUFFER	
PERIMETER BUFFER	
NEUSE RIVER BUFFER	

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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-3851
CERTIFICATE OF AUTHORIZATION

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

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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MERRITT RESERVE

UTILITY PLAN

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

UTILITY PLAN

SHEET NO.:

CU-105

Z:\Jobs\23-0004 Merritt Property @RP\Dwgs_Working Dwgs\Sheets\Construction Set\CE- CU-104-106 Utility Plan (SS Scale).dwg

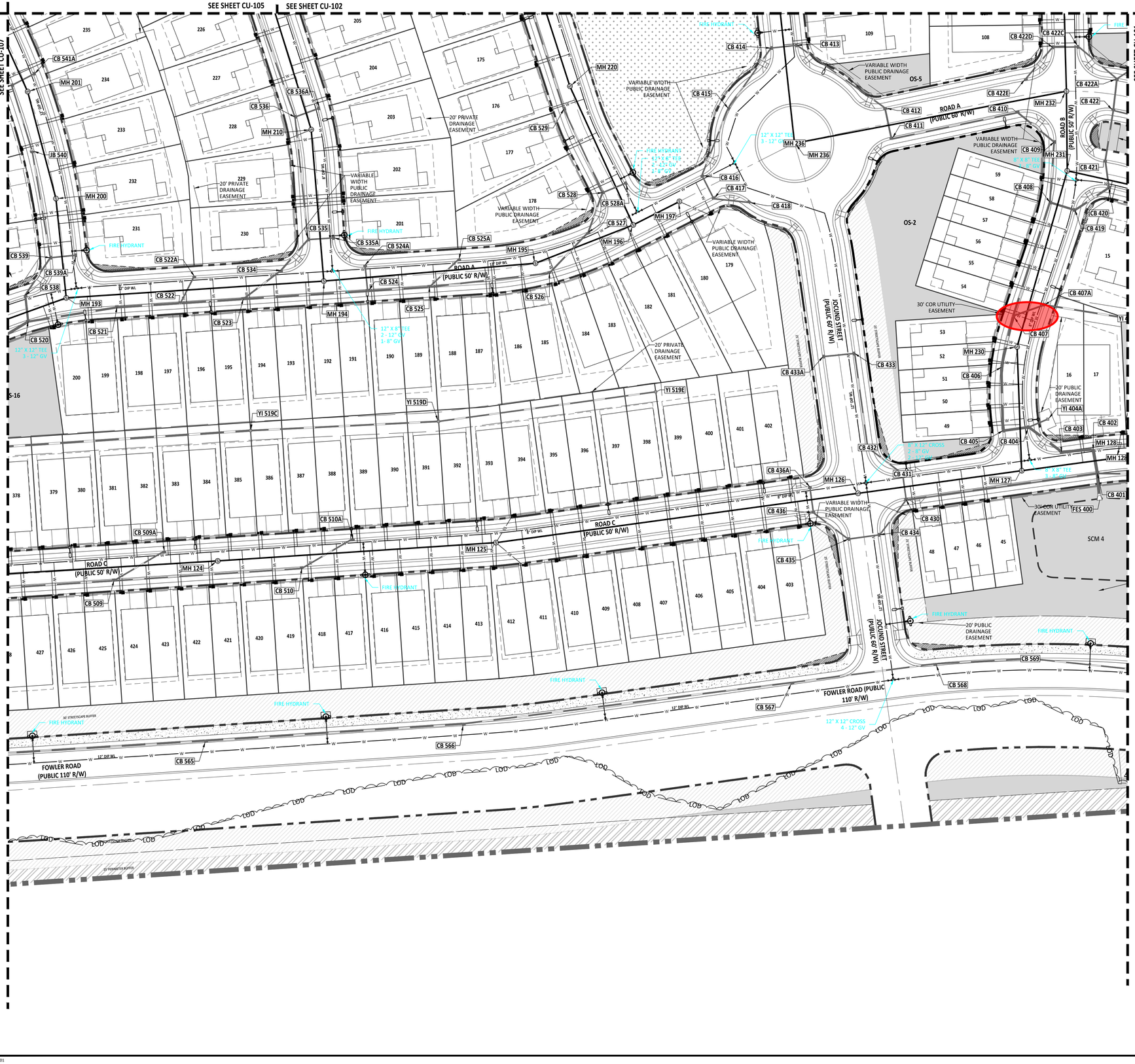
2025-05-01

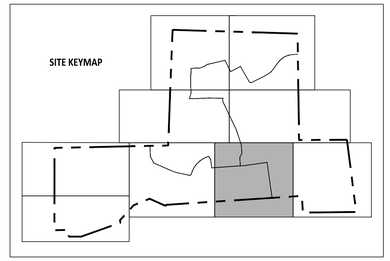
SEE SHEET CU-105

SEE SHEET CU-102

SEE SHEET CU-107

SEE SHEET CU-101





SITE PLAN LEGEND	
WATER VALVE	
SEWER METER	
WATER METER	
FH	
MANHOLE	
WATER LINE	
SCM LOCATIONS	
SEWER LINE	
PASSIVE OPEN SPACE PROVIDED: 28.07 ACRES TOTAL REQUIRED: 10.45 ACRES	
ACTIVE OPEN SPACE PROVIDED: 7.31 ACRES TOTAL REQUIRED: 10.45 ACRES	
30' STREETSCAPE BUFFER	
PERIMETER BUFFER	
NEUSE RIVER BUFFER	

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

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-3861
CERTIFICATE OF AUTHORIZATION

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JAKOB P. KLEIN
036528
ENGINEER
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NO.	DATE	REVISION:

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MERRITT RESERVE

ROLESVILLE RD
WAKE COUNTY NC 27312

UTILITY PLAN

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

UTILITY PLAN

SHEET NO.:

CU-106

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\48. CU-104-106 Utility Plan (ISO 5.sheet).dwg

2025-05-01

SEE SHEET CU-105

SEE SHEET CU-108

SEE SHEET CU-109

SEE SHEET CU-106

COMMERCIAL/RETAIL
4.27 AC

OS-5A
SCM 5A
FES-OS-5A
FES 500

OS-16
SCM 6B
FES 630
YI 631
YI 632

OS-5B
SCM 5B
FES 550
FES-OS-5B

OS-5C
SCM 5C
FES-OS-5C
FES 560

OS-15

OS-13

OS-16

ROAD A (PUBLIC 50' R/W)

ROAD B (PUBLIC 50' R/W)

ROAD C (PUBLIC 50' R/W)

FOWLER ROAD (PUBLIC 110' R/W)

MH 183, MH 182, MH 184, MH 181, MH 180, MH 191, MH 190, MH 201, MH 200, MH 193, MH 192, MH 120, MH 121, MH 122, MH 123, MH 118, MH 119, MH 116, MH 115, MH 113

CB 514, CB 514A, CB 513, CB 512, CB 511, CB 511A, CB 519, CB 519A, CB 520, CB 521, CB 541, CB 541A, CB 539, CB 539A, CB 538, CB 503, CB 503A, CB 504, CB 504A, CB 505, CB 506, CB 507, CB 507A, CB 508, CB 509, CB 516, CB 515, CB 517, CB 518, CB 633, CB 634, CB 562, CB 562A, CB 563, CB 564, CB 610, CB 611

JB 502, JB 540, JB 551, JB 561

YI 501, YI 519B

8" X 8" TEE
3 - 8" GV

12" X 12" TEE
3 - 12" GV

8" X 8" TEE
3 - 8" GV

FIRE HYDRANT

20' PUBLIC DRAINAGE EASEMENT

20' PUBLIC DRAINAGE & SCM ACCESS EASEMENT

20' PRIVATE DRAINAGE EASEMENT

30' SANITARY SEWER PUBLIC EASEMENT

30' PUBLIC DRAINAGE EASEMENT

20' PUBLIC DRAINAGE AND SCM ACCESS EASEMENT

VARIABLE WIDTH PUBLIC DRAINAGE EASEMENT

30' STREETSCAPE BUFFER

PERIMETER BUFFER

NEUSE RIVER BUFFER

LOD

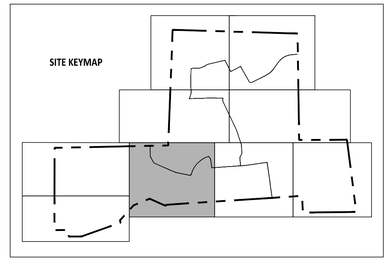
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = PSP-24-07

SITE KEYMAP



UTILITY PLAN LEGEND

WATER VALVE	
SEWER METER	
WATER METER	
FH	
MANHOLE	
WATER LINE	
SCM LOCATIONS	
SEWER LINE	
30' STREETSCAPE BUFFER	
PERIMETER BUFFER	
NEUSE RIVER BUFFER	

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
36528
ENGINEER
JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:

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MERRITT RESERVE

UTILITY PLAN

ROLESVILLE RD
WAKE COUNTY NC 27312

JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

UTILITY PLAN

SHEET NO.:

CU-107

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 (BRD)\dwg_Working Dwgs\Sheets\Construction Set\49. CU-107 Utility Plan (50 Scale).dwg
2025-05-01