Figure 1. Minimum Anchor Pattern

Maximum Design Conditions			Anchor Pattern
Shear Stress	Velocity	Wave Heigth	
<= 6 lbs/ft2	<= 14 ft/s	6 in.	F
> 6-8 lbs/ft2	> 14-18 ft/s	12 in.	G
> 8 lbs/ft2	> 18 ft/s	18 in.	H

Figure 2. Minimum Anchor Type

Soil Type	Anchor Type
Clay-Clay Loam	10 in Wire Staple
Silt Loam - Loam	10 in Wire Staple
Sandy Loam	12 in Wire Staple
Sand / Muck <= 6 in	12in Rebar Staple
Sand / Muck 6-12 in	18 in Rebar Staple
Sand / Muck 12-18 in	24 in Earth Anchor + 12 in Rebar Staple
Sand / Muck > 18 in	36 in Earth Anchor + 18 in Rebar Staple

Figure 3. Anchor Patterns for use with Wire/Rebar Staples

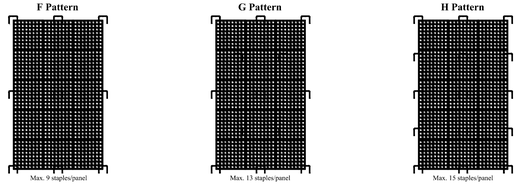
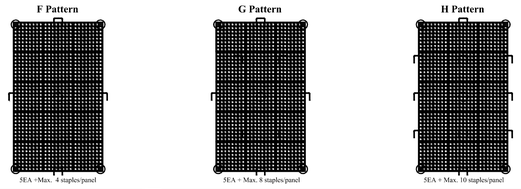


Figure 4. Anchor Patterns for use with Combination of Earth Anchors and Staples



NORTH AMERICAN GREEN
5401 St. Wendel - Cynthiana Rd. PH: 800-772-2040
Poseyville, IN 47633 www.nagreen.com

Disclaimer:
The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

Drawn on: 5-4-17

Drawing Not To Scale

ShoreMax™

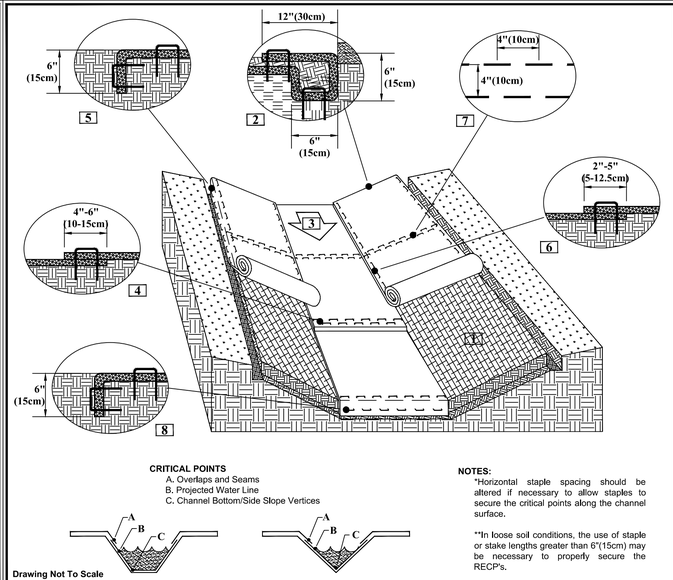
ANCHORING GUIDE

1. When installing ShoreMax mat, the anchor pattern (figure 3 or 4) should be selected based on the expected maximum design conditions (shear stress, velocity, or wave impact) (figure 1).
2. Anchor selection should be based on the soil type and pull-out strength required (figure 2). In soft, highly erodible soils percussion earth anchors may be necessary, Earth anchors can be installed in conjunction with rebar staples (figure 4).
3. When using percussion earth anchors, position anchors in each corner and the center of the panel. Place staples in the appropriate pattern through remainder of mat. Staples can be shared between two adjacent panels.

***Note:**
Number of staples used per panel can be reduced by 30-40% when sharing staples between panels.

⊓ - Wire/Rebar Staple

⊕ - Percussion Earth Anchor



CRITICAL POINTS
A. Overlaps and Seams
B. Projected Water Line
C. Channel Bottom/Side Slope Vertices

Drawing Not To Scale

NOTES:
*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

**In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

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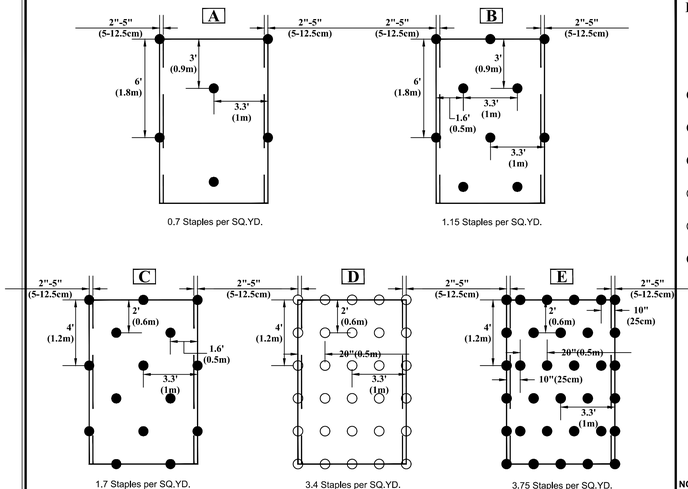
Drawn on: 5-4-17

CHANNEL INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECPs must be overlapped approximately 2"-5" (5-12.5cm) (Depending on RECPs type) and stapled.
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 -12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.

STAPLE PATTERN GUIDE



- 4:1 Slopes (A)
- 3:1 Slopes (B)
- 2:1 Slopes (C)
- 1:1 & Steeper Slopes (D)
- Medium/High Flow Channel (D)
- High Flow Channel And Shoreline (E)

NOTES:
* Use ECMDS© for more accurate staple pattern selection.

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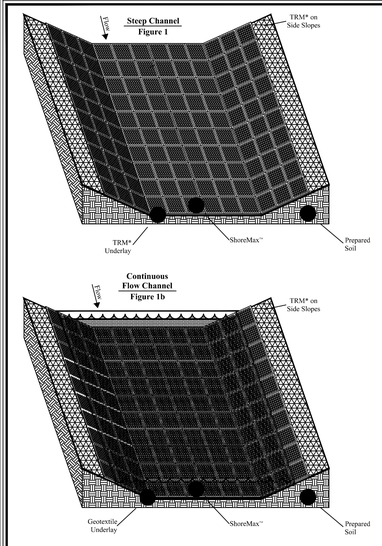
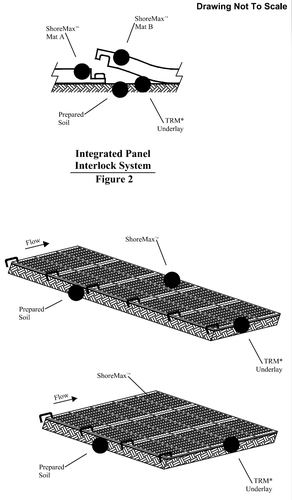
Drawn on: 5-4-17

Drawing Not To Scale





Drawing Not To Scale

ShoreMax™

STEEP CHANNEL/ CHUTE/SPILLWAY DETAIL

* ShoreMax mats can be installed over a variety of underlayments including: sod, turf reinforcement mats (TRMs), geotextiles, and in some cases erosion control blankets (ECBs).

1. Prepare soil before installing erosion control products, including any necessary application of lime, fertilizer, and seed (when installing TRM or ECB underlayment).
2. Install turf reinforcement mat (TRM) over prepared soils according to manufacturer's recommendations.
3. Place ShoreMax mat in the bottom of the channel over the installed TRM (figure 1). The ShoreMax mat should be installed up to the appropriate elevation on the side slope as determined by the engineer. When using multiple panels, connect the panels using the Integrated Panel Interlock System (figure 2). ShoreMax mat can be laid in either direction.
4. For channels carrying continuous water flows, an appropriate geotextile should be placed under the ShoreMax mat for submerged applications (figure 1b).
5. Place staples/anchors in the appropriate pattern. Perimeter staples can be shared between two adjacent panels. In soft or highly erodible soils, percussion earth anchors may be required. View ShoreMax Anchoring Guide, for additional details.
6. At beginning of channel and areas where significant concentrated flows are directed onto the ShoreMax mat, place 1 staple/pin per linear foot along the leading edge of the ShoreMax system, resulting in 1 staple/pin on each corner and gridline (figure 3).

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Raleigh, NC 27607

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

PRELIMINARY

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 36528 JAKOB P. KLEIN

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MERRITT RESERVE
EROSION CONTROL 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:
EROSION CONTROL DETAILS

SHEET NO.:
CE-504

PROJECT NUMBER = CID-25-02

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

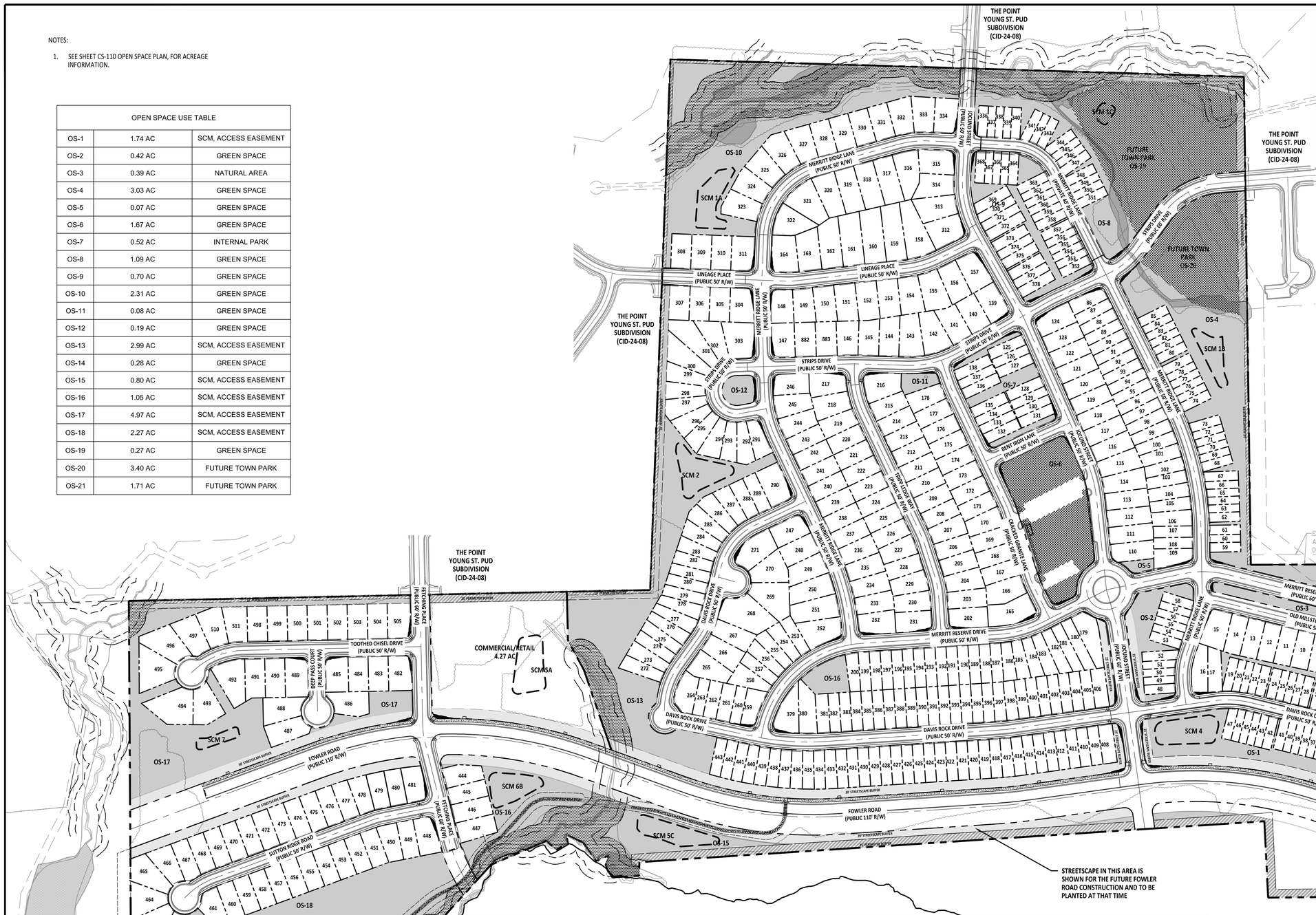
Z:\Jobs\23-0004 Merrit Property BRD\Dwg_Working Dwgs\Sheets\Construction Set\30. CE 500-504 ESC DETAILS.dwg

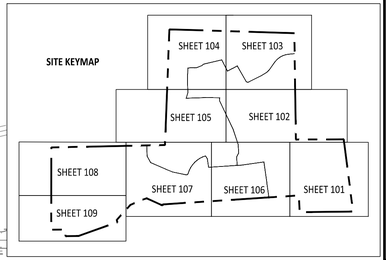
2025-07-01

NOTES:

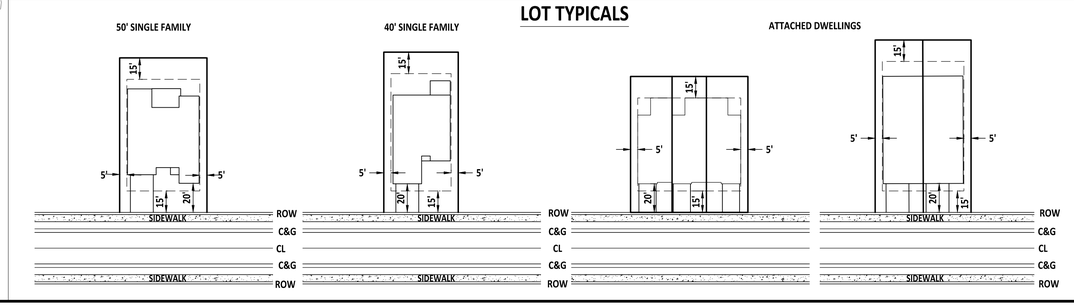
1. SEE SHEET CS-110 OPEN SPACE PLAN, FOR ACREAGE INFORMATION.

OPEN SPACE USE TABLE		
OS-1	1.74 AC	SCM, ACCESS EASEMENT
OS-2	0.42 AC	GREEN SPACE
OS-3	0.39 AC	NATURAL AREA
OS-4	3.03 AC	GREEN SPACE
OS-5	0.07 AC	GREEN SPACE
OS-6	1.67 AC	GREEN SPACE
OS-7	0.52 AC	INTERNAL PARK
OS-8	1.09 AC	GREEN SPACE
OS-9	0.70 AC	GREEN SPACE
OS-10	2.31 AC	GREEN SPACE
OS-11	0.08 AC	GREEN SPACE
OS-12	0.19 AC	GREEN SPACE
OS-13	2.99 AC	SCM, ACCESS EASEMENT
OS-14	0.28 AC	GREEN SPACE
OS-15	0.80 AC	SCM, ACCESS EASEMENT
OS-16	1.05 AC	SCM, ACCESS EASEMENT
OS-17	4.97 AC	SCM, ACCESS EASEMENT
OS-18	2.27 AC	SCM, ACCESS EASEMENT
OS-19	0.27 AC	GREEN SPACE
OS-20	3.40 AC	FUTURE TOWN PARK
OS-21	1.71 AC	FUTURE TOWN PARK





LOT TYPICALS



GRAPHIC SCALE

150 0 75 150 300 600

(IN FEET)
1 inch =150 ft

PROJECT NUMBER = CID-25-02

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

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Raleigh, NC 27607
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MERRITT RESERVE

SITE 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:

SITE PLAN OVERALL

SHEET NO.:

CS-100

Z:\Jobs\23-0004 Merrit Property (BRD)\dwg_Working Dwg\Sheets\Construction Set\11. CS-100 Site Plan.dwg

2025-07-02

SEE SHEET CS-102

SEE SHEET CS-106

MERRITT RESERVE DRIVE (PUBLIC 60' R/W)

MERRITT RIDGE LANE (PUBLIC 50' R/W)

OLD MILLSTONE COURT (PUBLIC 50' R/W)

DAVIS ROCK DRIVE (PUBLIC 50' R/W)

FOWLER ROAD (PUBLIC 110' R/W)

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

OS-1

OS-3

OS-4

SCM 4

RETAINING WALL (TYP.)

FUTURE COMMERCIAL/RETAIL 3.29 AC

VARIABLE WIDTH DRAINAGE EASEMENT

20' PRIVATE DRAINAGE EASEMENT

20' PUBLIC DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT 6

3' COR UTILITY PUBLIC EASEMENT

5' SIDEWALK

10' SIDEPATH

10' CONCRETE SIDE PATH

FIRE HYDRANT EASEMENT (TYP.)

20' PUBLIC DRAINAGE AND SCM MAINTENANCE EASEMENT

TEMPORARY ACCESS AND CONSTRUCTION EASEMENT

50' R/W DEDICATION

15' R/W DEDICATION

60' R/W

30' STREETSCAPE BUFFER

25' PERIMETER BUFFER TYPE 3

LOD

L=134.47'
R=300.00'

L=78.07'
R=230.00'

L=56.05'
R=215.00'

L=105.82'
R=230.00'

L=113.53'
R=300.00'

L=196.39'
R=800.00'

L=217.26'
R=885.00'

L=649.12'
R=1200.00'

L=342.09'
R=1200.00'

S76° 10' 42"E
274.60'

N89° 45' 22"E
339.19'

N89° 45' 22"E
82.55'

N00° 14' 38"W
100.00'

N90° 00' 00"W
15.00'

S50° 58' 17"E
116.87'

S50° 58' 17"E
69.24'

S18° 28' 34"W
108.84'

S7° 15' 06"E
53.00'

N82° 06' 54"E
262.22'

S76° 12' 06"E
345.89'

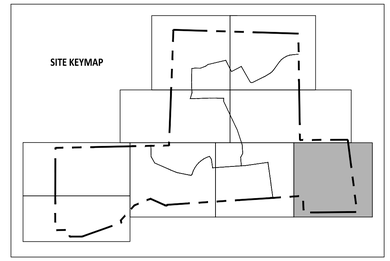
N66° 53' 30"W
184.30'

N83° 13' 30"W
108.21'

R35'

R7'

14'



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: 6.87 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 = CID-25-02

AMERICAN Engineering
American Engineering Associates - Southeast, P.A.
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Raleigh, NC 27607
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SITE 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:

SITE PLAN

SHEET NO.:

CS-101

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 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\CS_CS-101-103 Site Plan (50 Scale).dwg

2025-07-02

SEE SHEET CS-104

SEE SHEET CS-103

SEE SHEET CS-105

SEE SHEET CS-106

SEE SHEET CS-101

STRIPS DRIVE (PUBLIC 50' R/W)

IOCUNO STREET (PUBLIC 50' R/W)

CRACKED GRANITE LANE (PUBLIC 50' R/W)

BENT IRON LANE (PUBLIC 50' R/W)

MERRITT RIDGE LANE (PUBLIC 50' R/W)

MERRITT RESERVE DRIVE (PUBLIC 60' R/W)

OLD MILLSTONE COURT (PUBLIC 50' R/W)

SCM 1B

RETAINING WALL (TYP.)

SIDEWALK

EXISTING GRAVESITE NOT TO BE DISTURBED

VARIABLE WIDTH DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

20' PUBLIC DRAINAGE AND SCM MAINTENANCE ACCESS EASEMENT

10' PERIMETER BUFFER TYPE 3

"CURB CUTS AND PARKING AREA FOR FUTURE AMENITY AREA"

"WALKWAY AND ON-STREET PARKING"

20' PRIVATE DRAINAGE EASEMENT

20' PRIVATE DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

20' PUBLIC DRAINAGE EASEMENT

VARIABLE WIDTH DRAINAGE EASEMENT

20' PUBLIC DRAINAGE EASEMENT

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

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

OS-1 OS-2 OS-3 OS-4 OS-5 OS-6 OS-7 OS-11

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

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: 6.87 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

LOD

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American Engineering Associates - Southeast, P.A.
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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:

SITE PLAN

SHEET NO.:

CS-102

PROJECT NUMBER = CID-25-02

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 BRD\Dwg_Working Dwgs\Sheets\Construction Set\CS_101-103 Site Plan ISO Subdiv.dwg

2025-07-01

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

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

TEMPORARY CONSTRUCTION EASEMENT

TAPER TO EXISTING 11' LANES AND CROSS SECTION

EXISTING CORSE

ZONE 1 BUFFER

ZONE 2 BUFFER

SCM 1C

FUTURE TOWN PARK OS-19

25' PERIMETER BUFFER TYPE 1L

CURB CUTS AND CROSSWALKS FOR FUTURE TOWN PARK PATH

JOCUND STREET (PUBLIC 50' R/W)

VARIABLE WIDTH DRAINAGE EASEMENT

586° 46' 22"E 101.49'

586° 46' 22"E 150.05'

R=150.00'

MERRITT RIDGE LANE (PRIVATE 60' R/W)

20' PRIVATE DRAINAGE EASEMENT

RETAINING WALL (TYP.)

OS-8

OS-9

EXISTING WETLAND (TYP)

S26° 35' 02"E 57.47'

S26° 35' 02"E 265.02'

STRIPS DRIVE (PUBLIC 50' R/W)

N85° 09' 02"E 134.08

N85° 09' 02"E 85.60'

L=196.96'
R=330.00'

STRIPS DRIVE
(PUBLIC 60' R/W)

FUTURE TOWN PARK OS-20

L=116.61'
R=230.00'

N65° 08' 02"E 170.86'

L=32.33'
R=400.00'

OS-4

3' COR UTILITY PUBLIC EASEMENT

SCM 1B

RETAINING

SEE SHEET CS-104

SEE SHEET CS-102

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

SITE KEYMAP

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: 6.87 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

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

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

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

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

STIPULATION FOR REUSE

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MERRITT RESERVE

SITE 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:

SITE PLAN

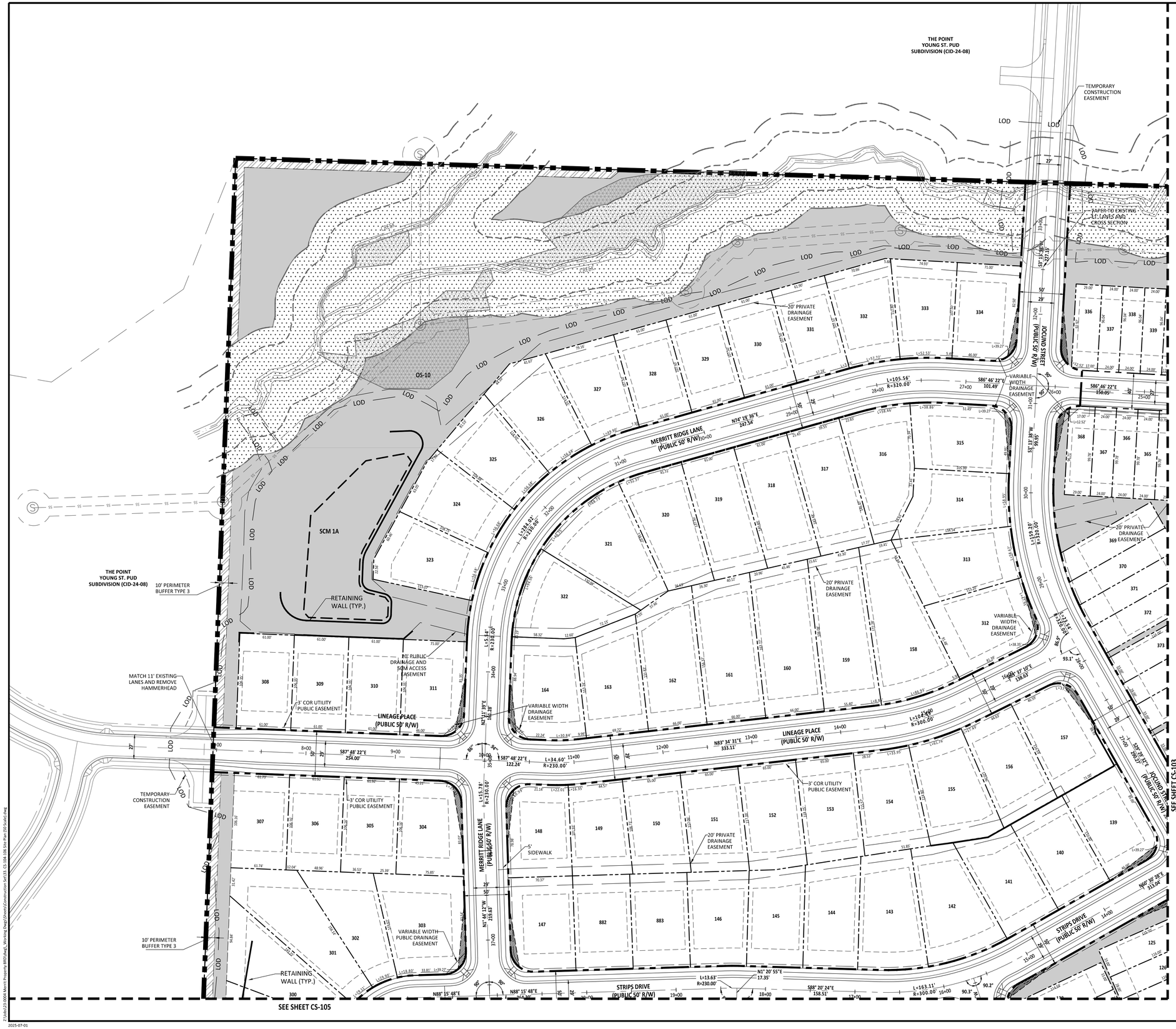
SHEET NO.:

CS-103

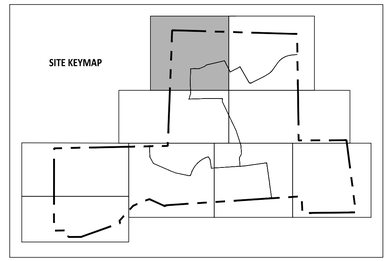
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

PROJECT NUMBER = CID-25-02

Z:\Jobs\23-0004 Merritt Property (BRD)\dwg_Working Dwgs\Sheets\Construction Set\CS - 101-103 Site Plan (50 Scale).dwg
2025-07-01



SITE KEYMAP



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	
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30' STREETSCAPE BUFFER	
PERIMETER BUFFER	
NEUSE RIVER BUFFER	
EXISTING WETLAND	

PROJECT NUMBER = CID-25-02

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Raleigh, NC 27607
919-469-1101

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

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
36528
JAKOB P. KLEIN

FOR INFORMATION, ONLY

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

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MERRITT RESERVE
SITE PLAN
ROLESVILLE RD
WAKE COUNTY NC 27312

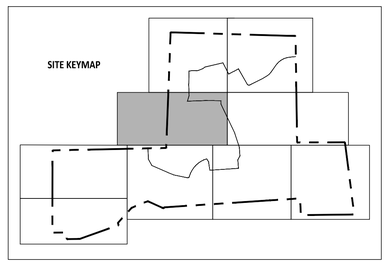
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
SITE PLAN

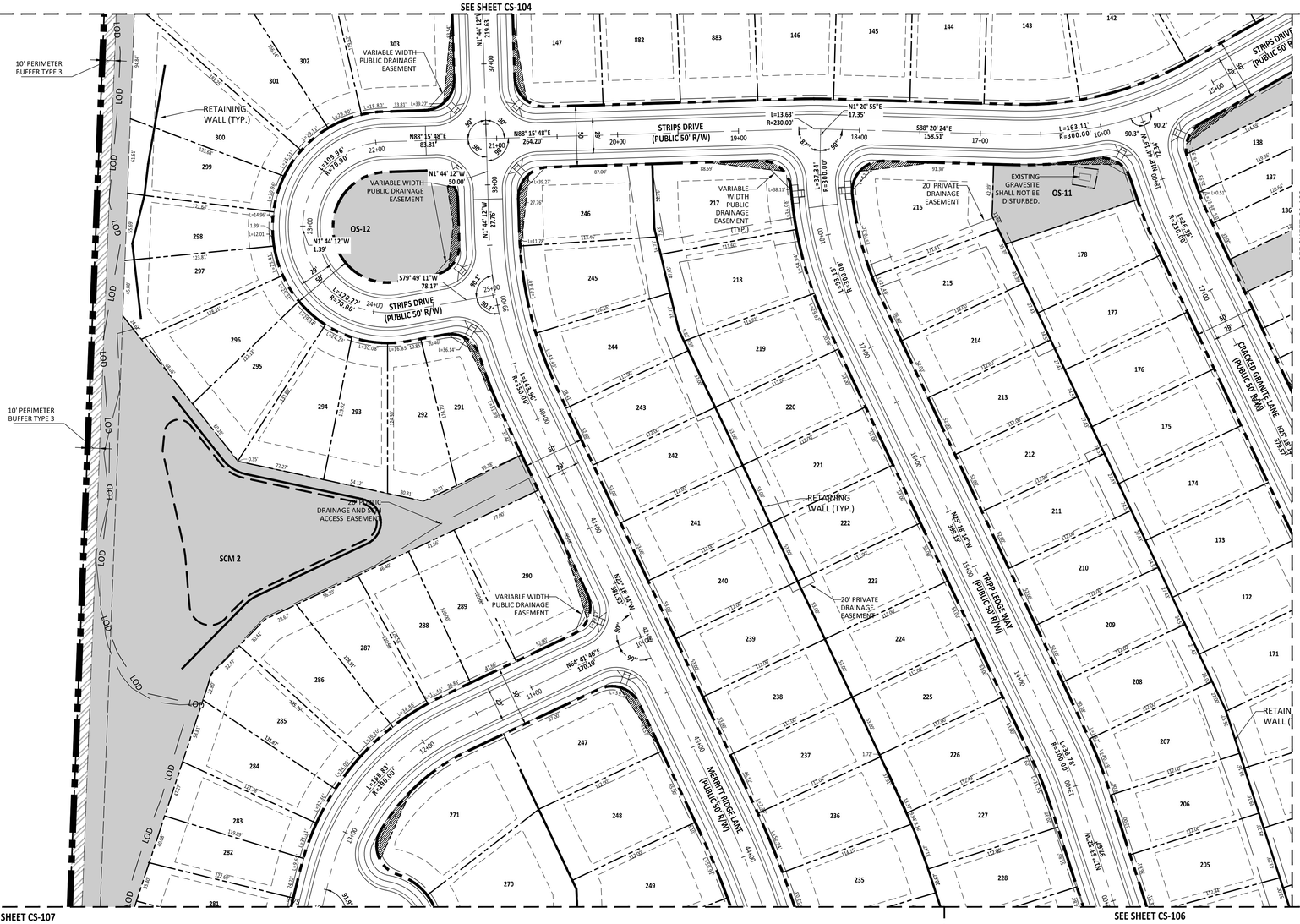
SHEET NO.:
CS-104

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 Merritt Property @Rdlvwy_Working Dwgs\Sheets\Construction Set\03 CS-104-106 Site Plan ISO-Scale.dwg
2025-07-01



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



SITE PLAN LEGEND	
PROPOSED LOT LINES	
RIGHT OF WAY	
CENTERLINE	
CURB AND GUTTER	
10 X 70 SIGHT TRIANGLE	
SCM LOCATIONS	
SETBACKS	
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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 = CID-25-02

North Carolina 811

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

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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 REGISTERED 36528 ENGINEER JAKOB P. KLEIN
FOR INFORMATION, ONLY

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

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MERRITT RESERVE

SITE 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:

SITE PLAN

SHEET NO.:

CS-105

Z:\Jobs\23-0004 Merritt Property @RPA\Dwgs_Working Dwgs\Sheets\Construction Set\23- CS-104_106 Site Plan ISO 5.dwg
2025-07-01

SEE SHEET CS-105

SEE SHEET CS-102

SEE SHEET CS-107

SEE SHEET CS-101

SEE SHEET CS-16

MERRITT RESERVE DRIVE (PUBLIC 50' R/W)

DAVIS ROCK DRIVE (PUBLIC 50' R/W)

FOWLER ROAD (PUBLIC 110' R/W)

JOCUND STREET (PUBLIC 60' R/W)

CRACKED GRANITE LANE (PUBLIC 50' R/W)

MERRITT RIDGE LANE (PUBLIC 50' R/W)

OS-2

OS-5

SCM 4

20' PRIVATE DRAINAGE EASEMENT 230

20' PRIVATE DRAINAGE EASEMENT

VARIABLE WIDTH PUBLIC DRAINAGE EASEMENT (TYP.)

VARIABLE WIDTH PUBLIC DRAINAGE EASEMENT

30' COR UTILITY EASEMENT

20' PUBLIC DRAINAGE EASEMENT

RETAINING WALL (TYP.)

FIRE HYDRANT EASEMENT (TYP.)

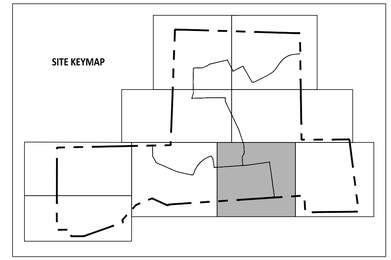
20' STREETSCAPE BUFFER

25' PERIMETER BUFFER TYPE 3

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

LOD

SITE KEYMAP



SITE PLAN LEGEND	
PROPOSED LOT LINES	
RIGHT OF WAY	
CENTERLINE	
CURB AND GUTTER	
10 X 70 SIGHT TRIANGLE	
SCM LOCATIONS	
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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 = CID-25-02

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

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

PRELIMINARY

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

FOR INFORMATION, ONLY

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MERRITT RESERVE

SITE 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:

SITE PLAN

SHEET NO.:

CS-106

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 (MFD)\wd_Working Dwgs\Sheets\Construction Set\13. CS-104-106 Site Plan (50 Scale).dwg

2025-07-01

SEE SHEET CS-105

SEE SHEET CS-108

SEE SHEET CS-109

SEE SHEET CS-106

10' PERIMETER BUFFER TYPE 2

LOD

COMMERCIAL/RETAIL 4.27 AC

SCM 5A

20' PUBLIC DRAINAGE EASEMENT

DAVIS ROCK DRIVE (PUBLIC 50' R/W)

RETAINING WALL (TYP.)

VARIABLE WIDTH PUBLIC DRAINAGE EASEMENT

MERRITT RESERVE DRIVE (PUBLIC 50' R/W)

OS-16

20' PRIVATE DRAINAGE EASEMENT

OS-13

DAVIS ROCK DRIVE (PUBLIC 50' R/W)

DAVIS ROCK DRIVE (PUBLIC 50' R/W)

PUBLIC SCM ACCESS AND MAINTENANCE EASEMENT

30' SANITARY SEWER PUBLIC EASEMENT

30' STREET BUFFER

30' PUBLIC DRAINAGE EASEMENT

20' PUBLIC DRAINAGE EASEMENT

SCM 6B

40' GREENWAY EASEMENT OS-16

30' PUBLIC DRAINAGE EASEMENT

FIRE HYDRANT EASEMENT (TYP.)

20' PUBLIC DRAINAGE EASEMENT

30' SANITARY SEWER PUBLIC EASEMENT

CREEK

SCM 5C

OS-15

FOWLER ROAD (PUBLIC 110' R/W)

VARIABLE WIDTH CONSTRUCTION EASEMENT

20' PUBLIC DRAINAGE AND SCM ACCESS EASEMENT

PROPE

30' STREAM BUFFER

50' NEUSE RIVER BUFFER

SITE KEYMAP

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	
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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 = CID-25-02

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

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

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

PRELIMINARY

NORTH CAROLINA REGISTERED 36528 ENGINEER JAKOB P. KLEIN

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MERRITT RESERVE

SITE 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:

SITE PLAN

SHEET NO.:

CS-107

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\14. CS-107-109 Site Plan (50 Scale).dwg

2025-07-01

EXISTING COR EASEMENT

NEUSE RIPARIAN BUFFER (ZONE 1)

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

10' PERIMETER
BUFFER TYPE 3

TEMPORARY
CONSTRUCTION
EASEMENT

MATCH 15'
EXISTING LANES
AND REMOVE
HAMMERHEAD

25' PERIMETER
BUFFER TYPE 2

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

0.1% ANNUAL FEMA
FLOODWAY

EXISTING 20'
SEWER EASEMENT
B.M. 1992 PG. 658

FETCHING PLACE
(PUBLIC 60' R/W)

TOOTHED CHISEL DRIVE
(PUBLIC 50' R/W)

5'
SIDEWALK

DEEP PASS COURT
(PUBLIC 50' R/W)

VARIABLE WIDTH
PUBLIC DRAINAGE
EASEMENT

30' SANITARY
SEWER
PUBLIC
EASEMENT

30' PUBLIC
DRAINAGE &
SCM ACCESS
EASEMENT

OS-17

SCM 7

FIRE
HYDRANT
EASEMENT
(TYP.)

PUBLIC SCM ACCESS
AND MAINTENANCE
EASEMENT

RETAINING
WALL (TYP.)

PROPOSED 30'
STREETSCAPE BUFFER

10' CONCRETE
SIDE PATH

FOWLER ROAD
(PUBLIC 110' R/W)

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

3' COR UTILITY
PUBLIC EASEMENT

VARIABLE
WIDTH
DRAINAGE
EASEMENT

20' PUBLIC
DRAINAGE
EASEMENT

30' SANITARY
SEWER
PUBLIC
EASEMENT

SUTTON RIDGE ROAD
(PUBLIC 50' R/W)

NEUSE RIPARIAN BUFFER
(ZONE 2)

SEE SHEET CS-107

SEE SHEET CS-109

SITE KEYMAP

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

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: 6.87 ACRES TOTAL REQUIRED: 10.45 ACRES	
30' STREETSCAPE BUFFER	
PERIMETER BUFFER	
NEUSE RIVER BUFFER	
EXISTING WETLAND	

PROJECT NUMBER = CID-25-02

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

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

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

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

FOR INFORMATION, ONLY

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

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MERRITT RESERVE

SITE 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:
SITE PLAN

SHEET NO.:
CS-108

Z:\Jobs\23-0004 Merritt Property BRP\Revit_Working Dwgs\Sheets\Construction Set\34_CS-107-109 Site Plan 150 Scale).dwg
2025-07-01

SEE SHEET CS-108

SEE SHEET CS-107

NEUSE RIPARIAN BUFFER (ZONE 1)

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

NEUSE RIPARIAN BUFFER (ZONE 2)

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

WETLAND (TYP)

EXISTING 20' SEWER EASEMENT M. 1992 PG. 658

0.1% ANNUAL FEMA FLOODWAY

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

SWAMP

SWAMP

POND

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

PROPOSED 30' STREETSCAPE BUFFER

S69° 43' 59"W 603.07'

SUTTON RIDGE ROAD (PUBLIC 50' R/W)

N69° 43' 59"E 511.81'

L=95.53' R=230.00'

N45° 56' 09"E 12.96'

R50'

R60'

R23'

FETCHING PLACE (PUBLIC 60' R/W)

N78° 48' 29"E 178.29'

L=36.43' R=230.00'

N15° 45' 47"E 29.16'

L=132.78' R=580.00'

VARIABLE WIDTH DRAINAGE EASEMENT

3' COR UTILITY PUBLIC EASEMENT

3' COR UTILITY PUBLIC EASEMENT

20' PUBLIC DRAINAGE EASEMENT

30' SANITARY SEWER PUBLIC EASEMENT

40' DEDICATED GREENWAY EASEMENT

30' SANITARY SEWER PUBLIC EASEMENT

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

RETAINING WALL (TYP.)

40' GREENWAY/SANITARY EASEMENT

OS-18

20' PUBLIC DRAINAGE AND SCM ACCESS EASEMENT

SCM 6A

N28° 57' 12"W 38.23'

WETLAND (TYP)

WETLAND (TYP)

444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481

LOD

SITE KEYMAP

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	
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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 = CID-25-02

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

AMERICAN Engineering
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Raleigh, NC 27607
919-469-1101

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JACOB P. KLEIN

AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3881 CERTIFICATE OF AUTHORIZATION

PRELIMINARY

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MERRITT RESERVE

SITE 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:

SITE PLAN

SHEET NO.:

CS-109

Z:\Jobs\23-0004 Merritt Property @Rolesville_Working Dwgs\Sheets\Construction Set\04 CS-107-109 Site Plan (ID)-Solid.dwg

2025-07-02

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

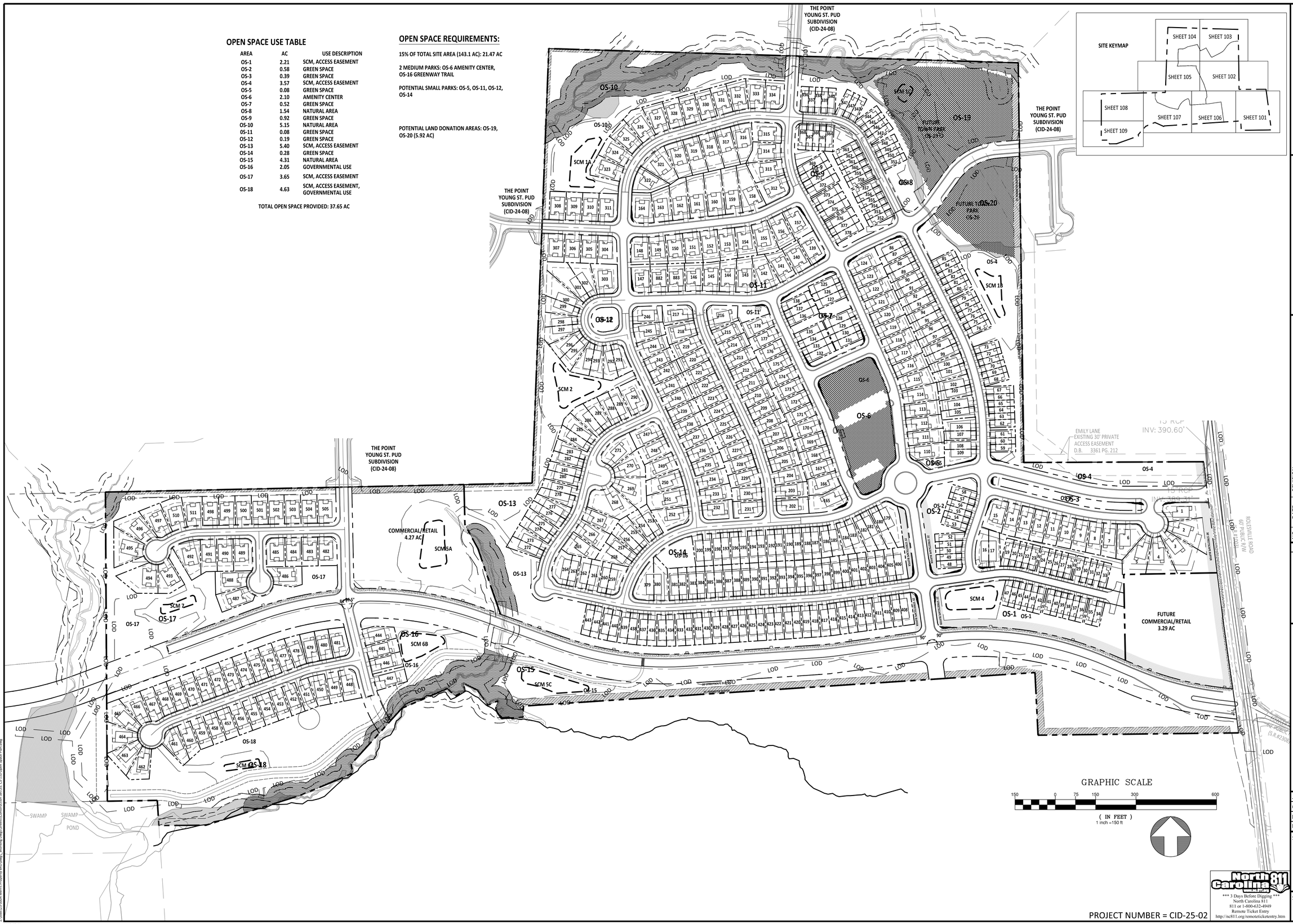
OPEN SPACE REQUIREMENTS:

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 = CID-25-02

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

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

PRELIMINARY

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

FOR INFORMATION, ONLY

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

STIPULATION FOR REUSE

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MERRITT RESERVE

OPEN SPACE 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:

OPEN SPACE PLAN

SHEET NO.:

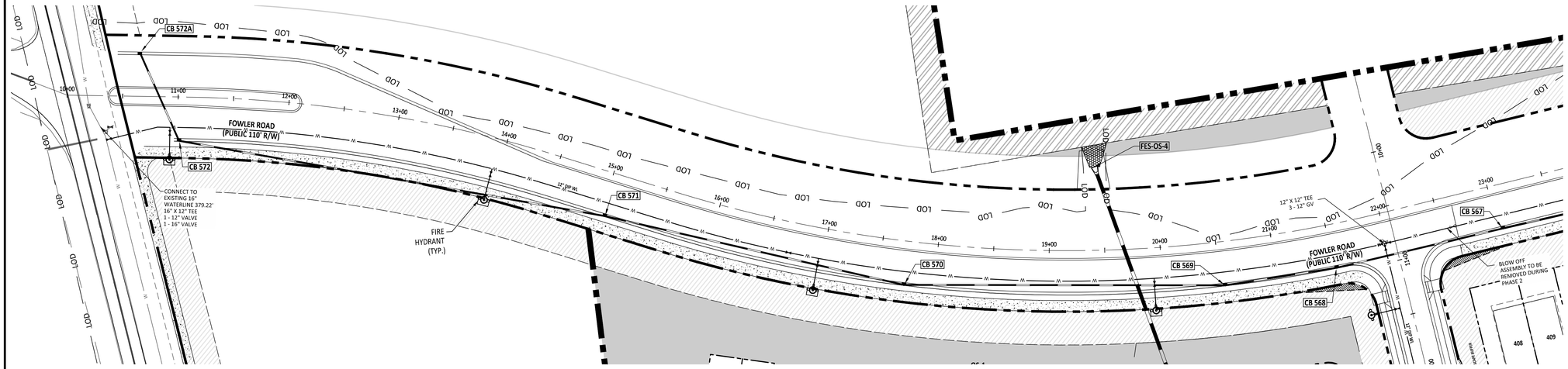
CS-110

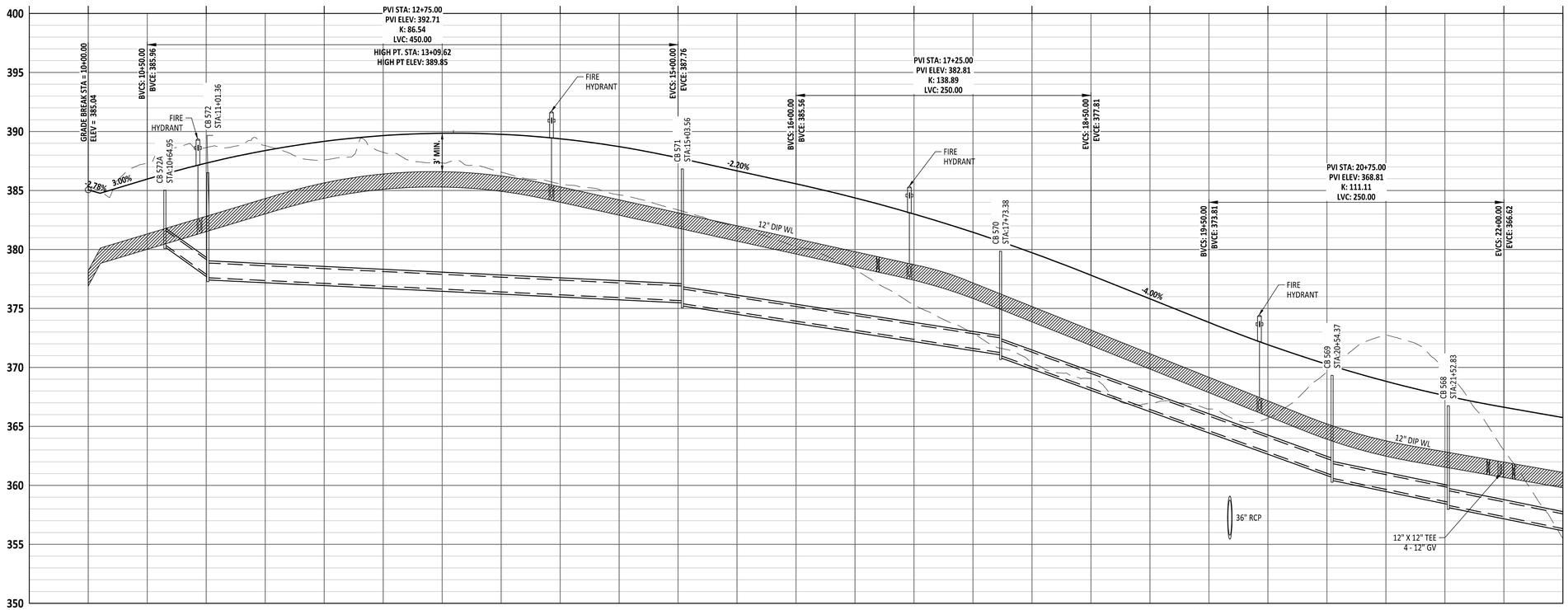
North Carolina 811 811.ncgov

*** 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\CS- CS-110 Open Space Plan.dwg

2025-07-02





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

Public

Sewer Collection / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

Public

Water Distribution / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

PRELIMINARY
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA
REGISTERED
16528
ENGINEER
JAKOB P. KLEIN

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
1	07-01-25	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
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

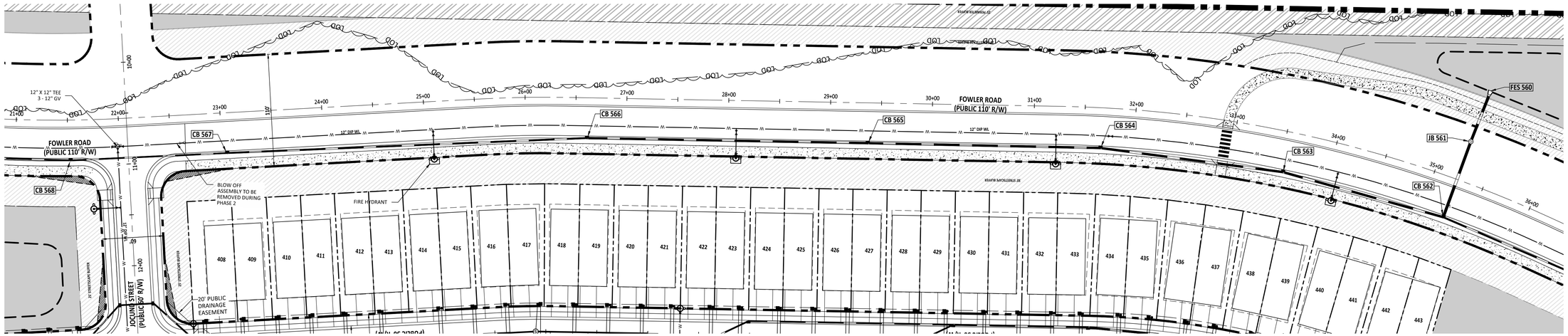
FOWLER ROAD PLAN & PROFILE

SHEET NO.:

CS-200

Z:\Jobs\23-0004 Merritt Property (BRD)\dwg_Working Dwg\Streets\Construction Set\36_CS-200 FOWLER ROAD PLAN & PROFILE.dwg

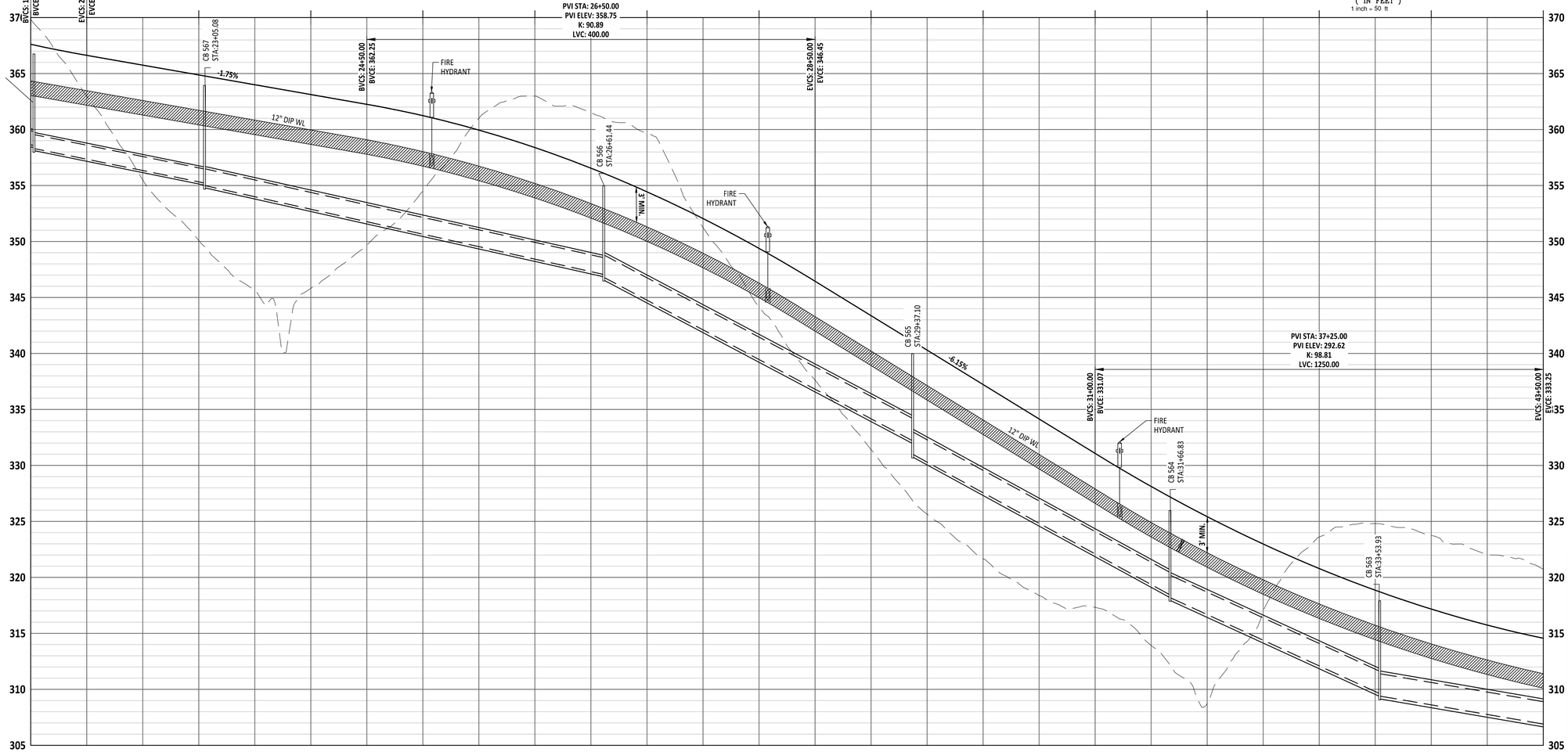
2025-07-02



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



Public
Sewer Collection / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Public
Water Distribution / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

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

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

STIPULATION FOR REUSE

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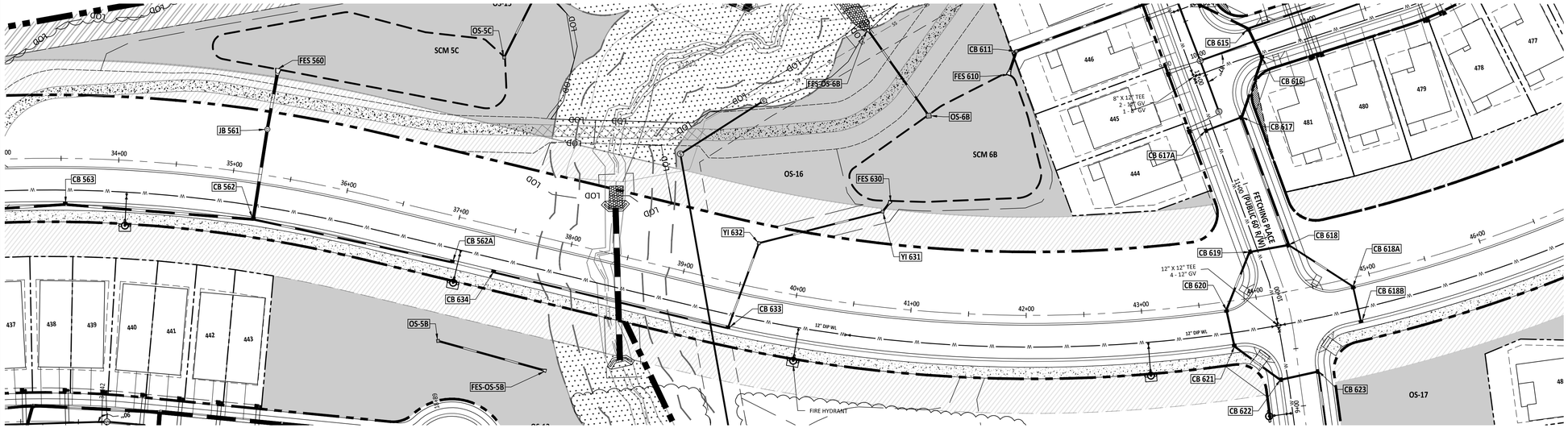
MERRITT RESERVE
FOWLER ROAD PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

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

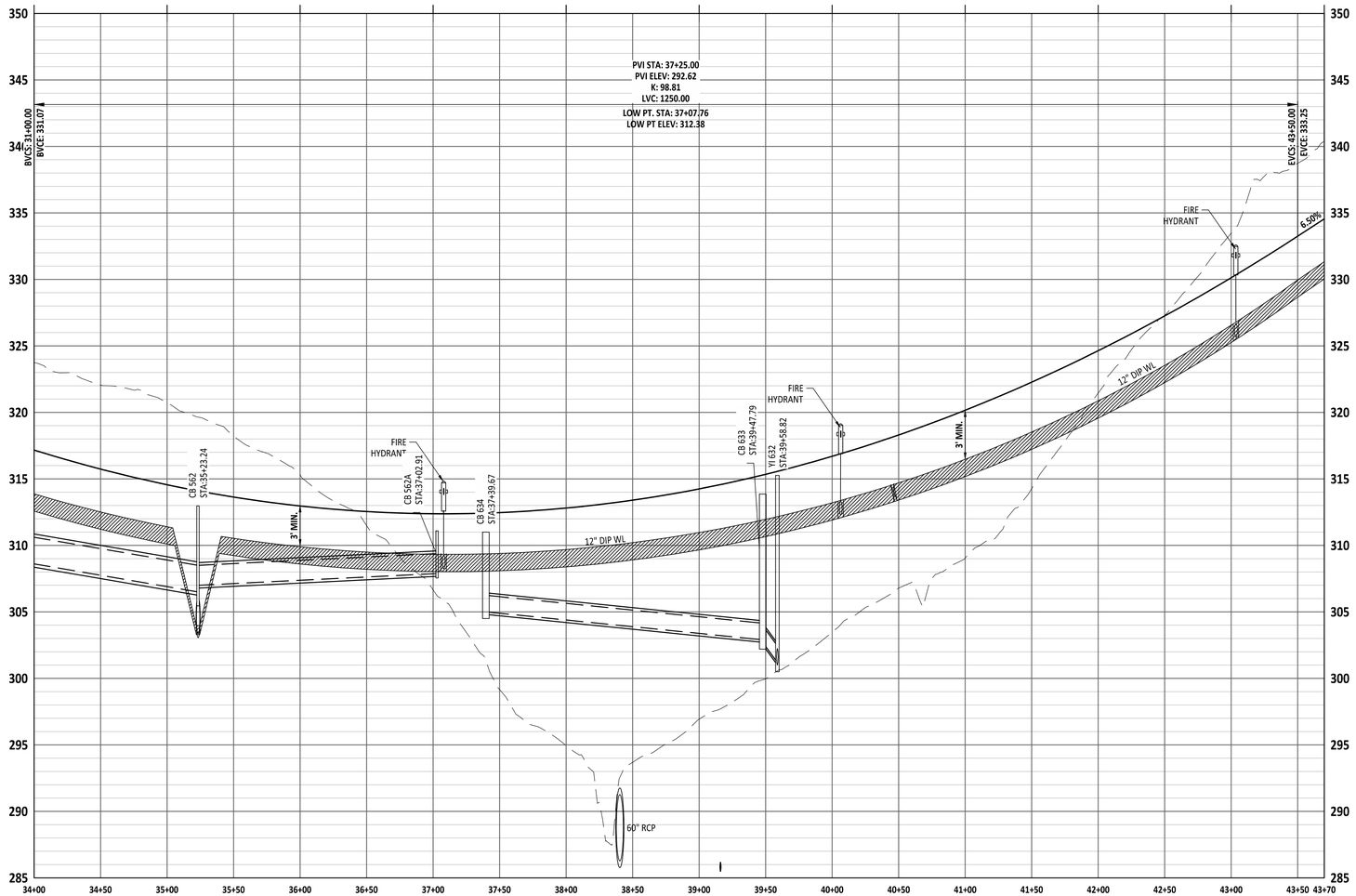
Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\CS_CS-200 FOWLER ROAD PLAN & PROFILE.dwg
2025-07-02



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



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

City of Raleigh
Public Utilities Department Permit # _____

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

NORTH CAROLINA
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:
1	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

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

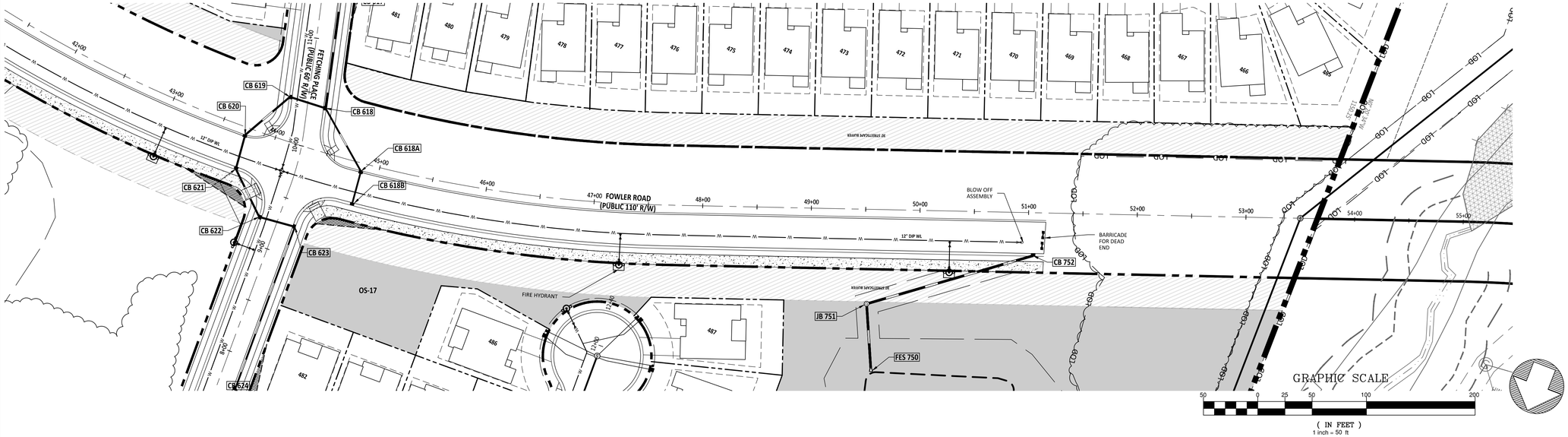
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

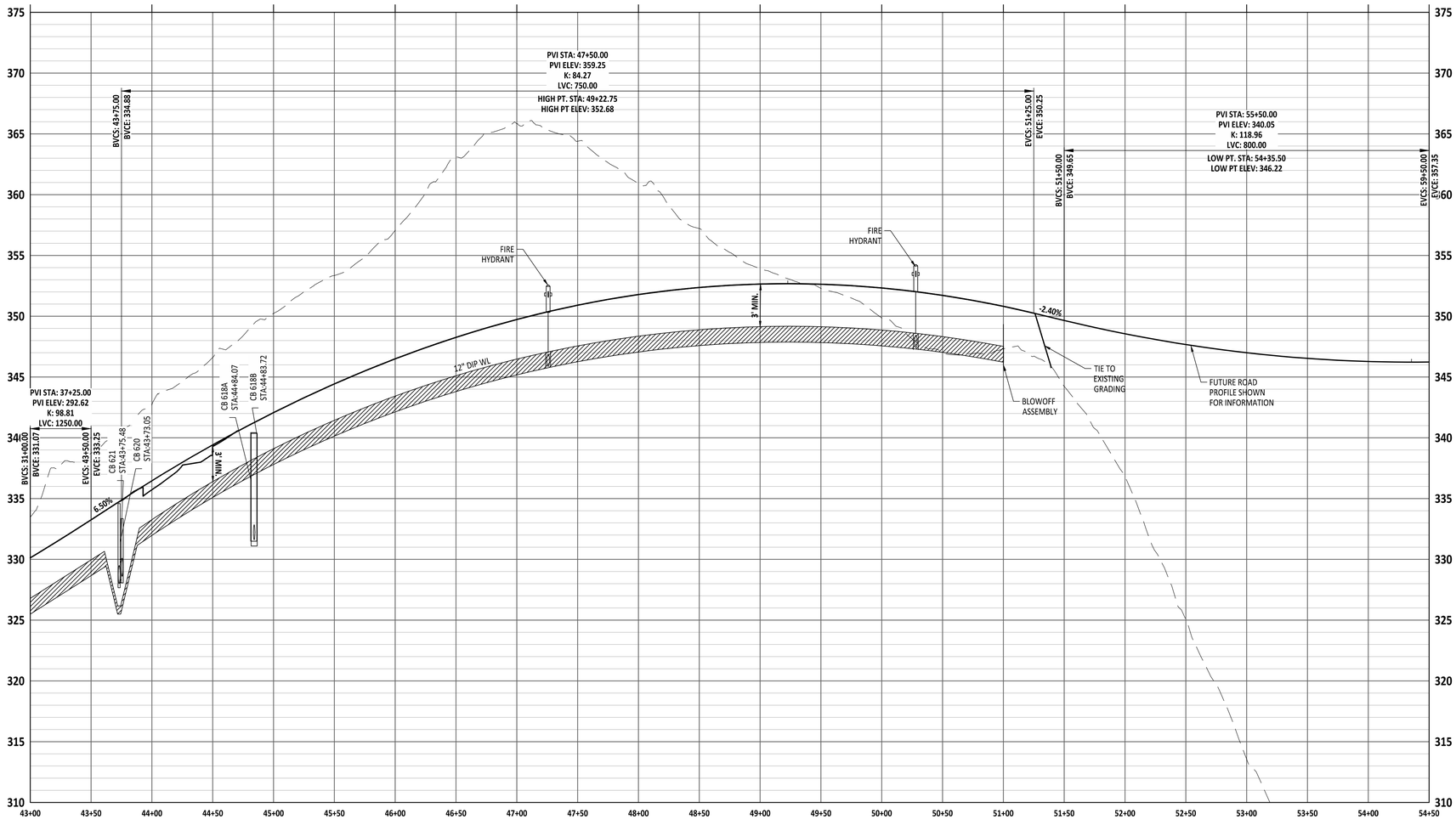
SHEET TITLE:
FOWLER ROAD PLAN & PROFILE

SHEET NO.:
CS-202

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\36. CS-202 FOWLER ROAD PLAN & PROFILE.dwg

2025-07-02





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

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

NORTH CAROLINA ENGINEERING CERTIFICATION
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:
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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-203

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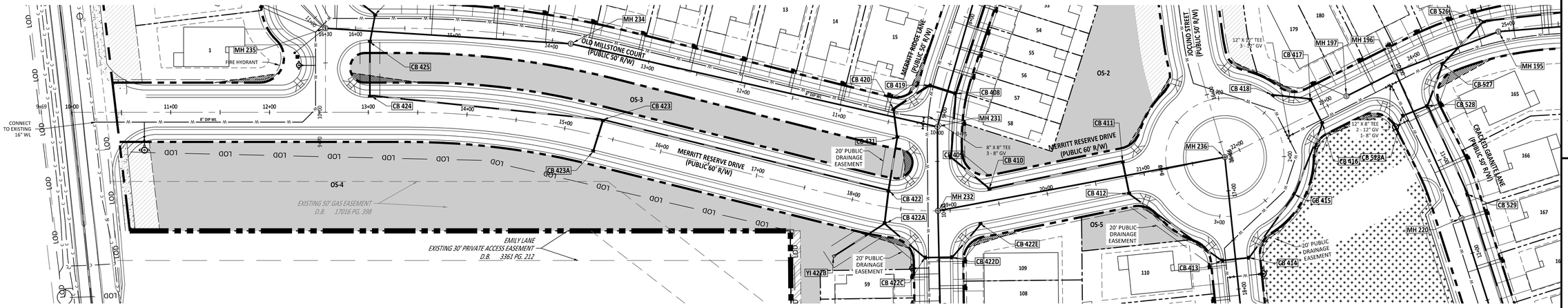
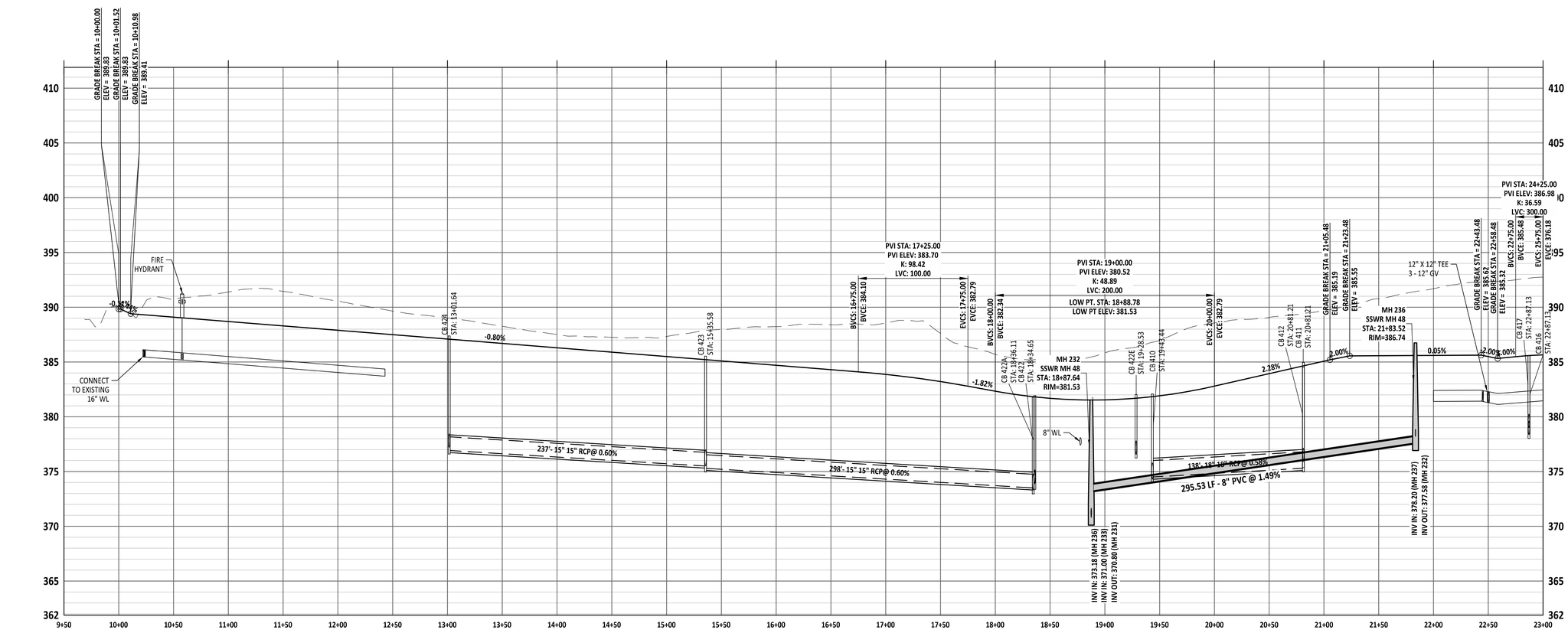
2025-07-02



MERRITT RESERVE DRIVE



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

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

PRELIMINARY

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

FOR INFORMATION, ONLY

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

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MERRITT RESERVE

MERRITT RESERVE DR PLAN & PROFILE

ROLESVILLE RD
WAKE COUNTY NC 27312

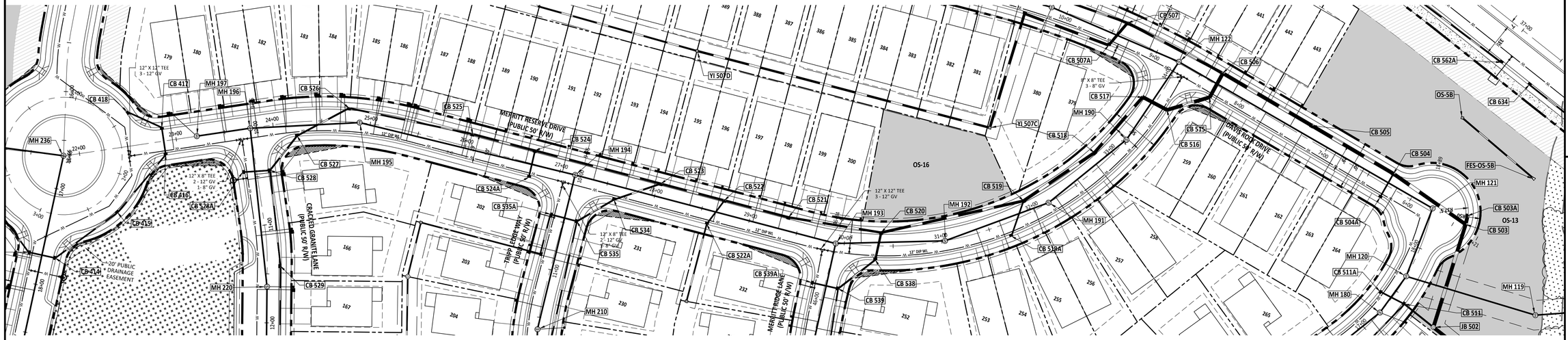
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
MERRITT RESERVE DR PLAN & PROFILE

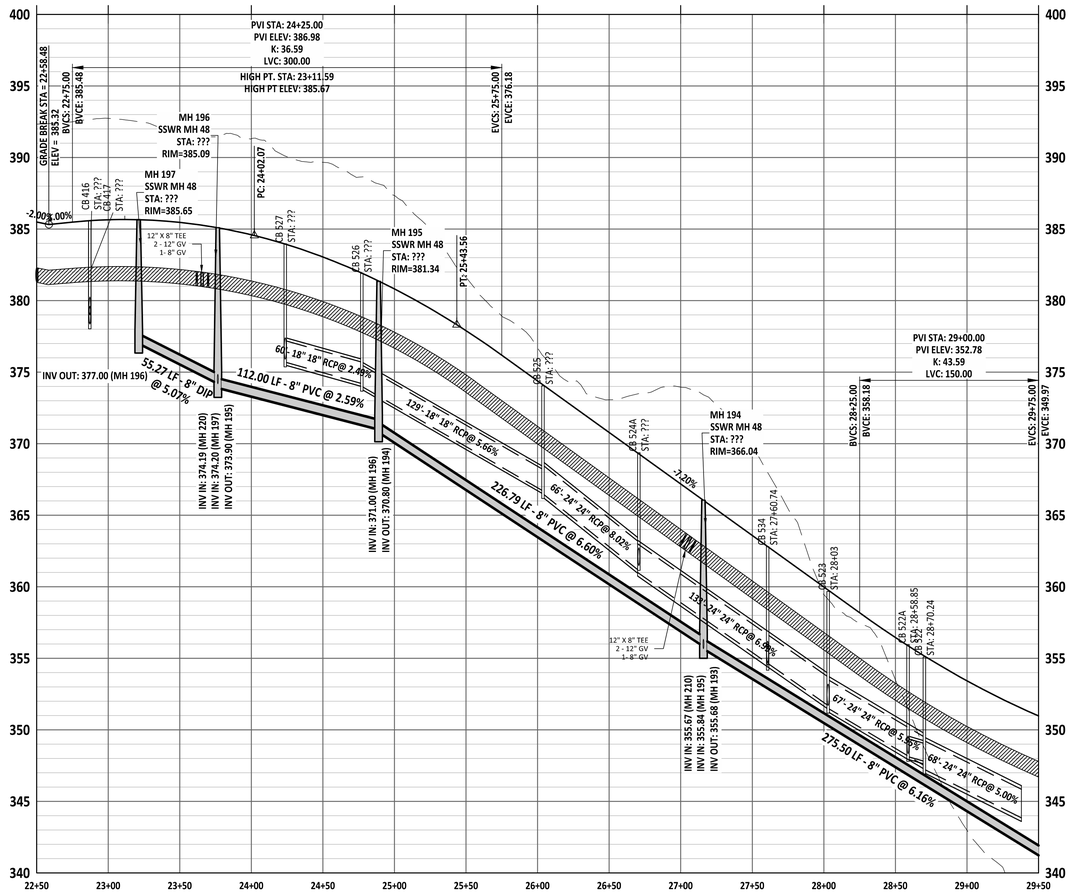
SHEET NO.:
CS-210

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 Dwg\(5)Civils\(Construction Set)\23 -CS-210 MERRITT RESERVE DR PLAN & PROFILE.dwg
2025-07-01



MERRITT RESERVE DRIVE



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft

PROJECT NUMBER = CID-25-02

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

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

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

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
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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

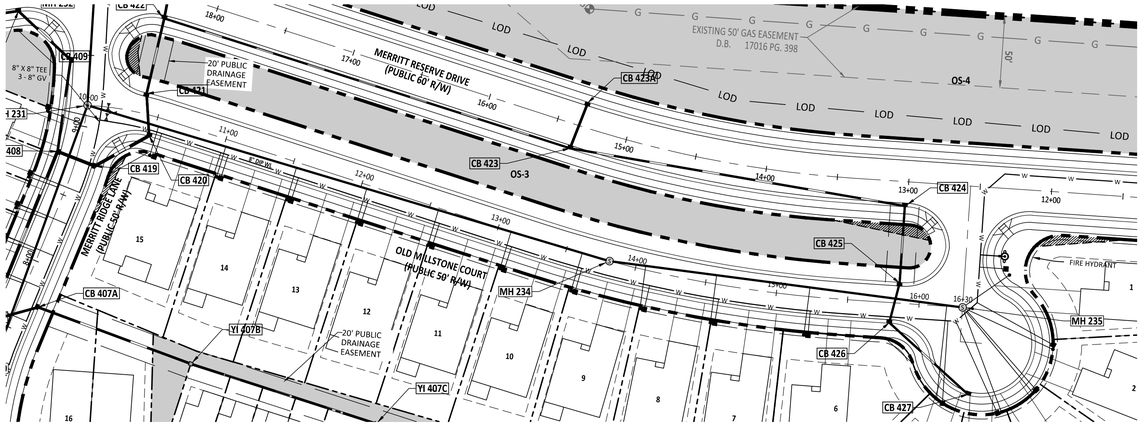
SHEET TITLE:
MERRITT RESERVE DR PLAN & PROFILE

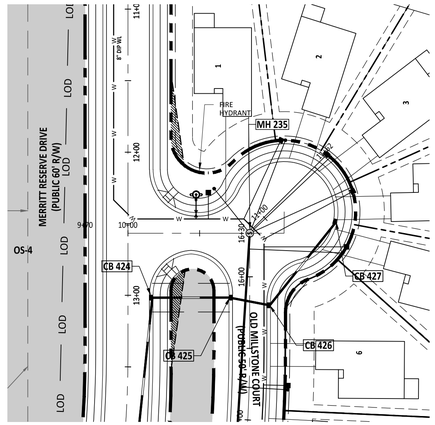
SHEET NO.:
CS-211

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

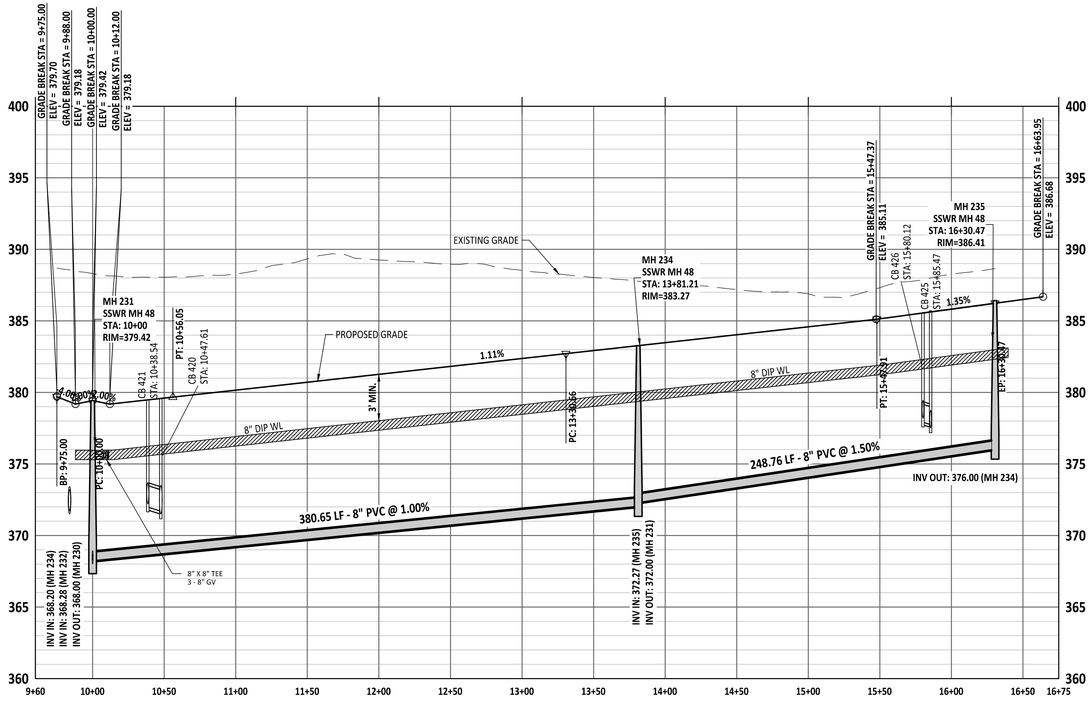
Z:\Jobs\23-0004 Merritt Property (BTP)\Revit_Working Dwgs\Sheets\Construction Set\07 - CS-210 MERRITT RESERVE DR PLAN & PROFILE.dwg

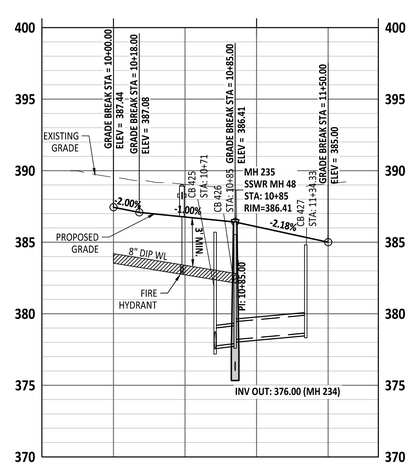
2025-07-02





OLD MILLSTONE COURT





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

City of Raleigh
Public Utilities Department Permit # _____

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

PROJECT NUMBER = CID-25-02

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

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

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

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

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

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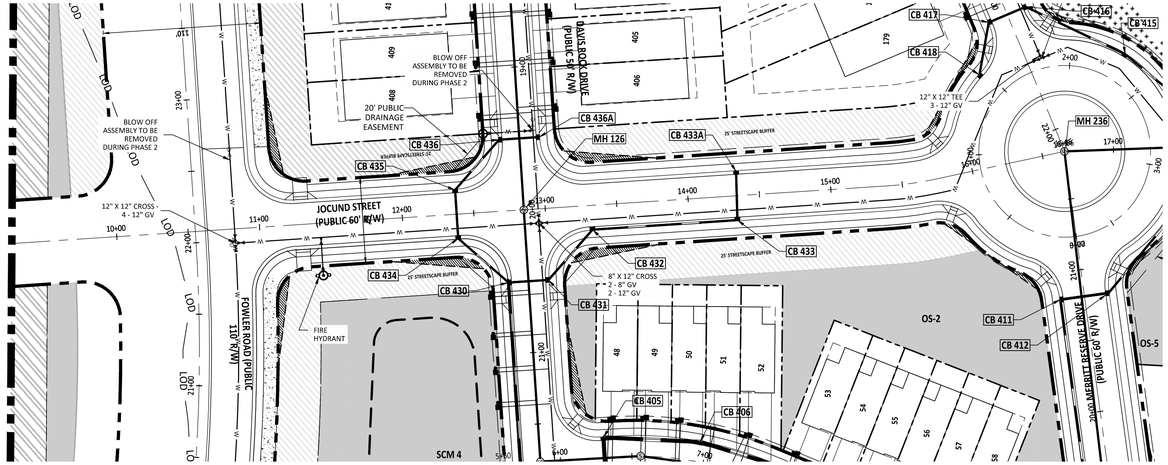
MERRITT RESERVE
OLD MILLSTONE COURT PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

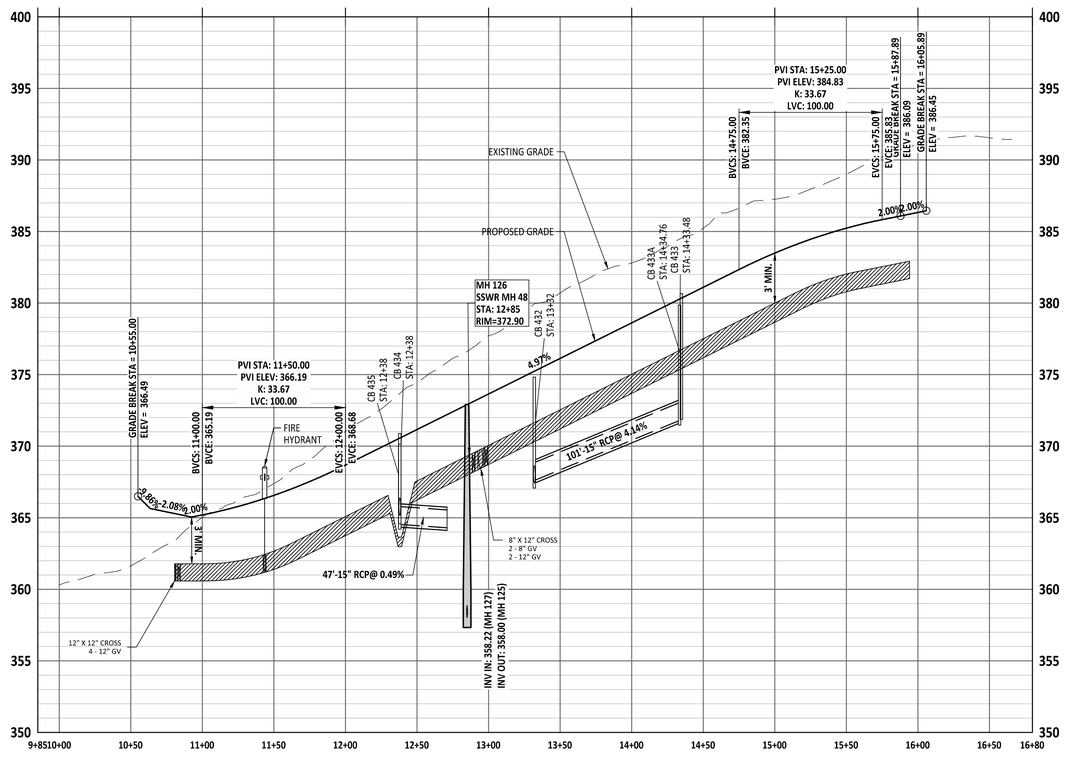
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
OLD MILLSTONE COURT PLAN & PROFILE

SHEET NO.:
CS-212

Z:\Jobs\23-0004 Merrit Property (BRD)\dwg_Working Dwgs\Sheets\Construction Set\CS-212 OLD MILLSTONE COURT PLAN & PROFILE.dwg
2025-07-02





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

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

City of Raleigh
Public Utilities Department Permit # _____

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P KLEIN

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

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
JOCUND STREET PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

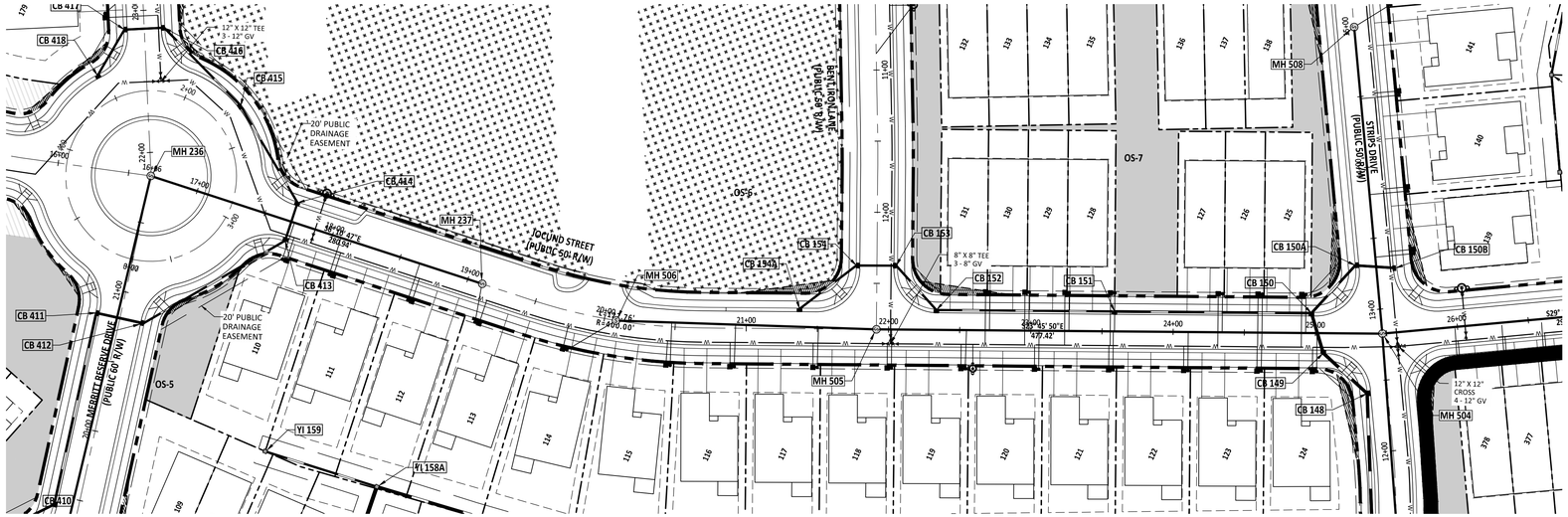
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

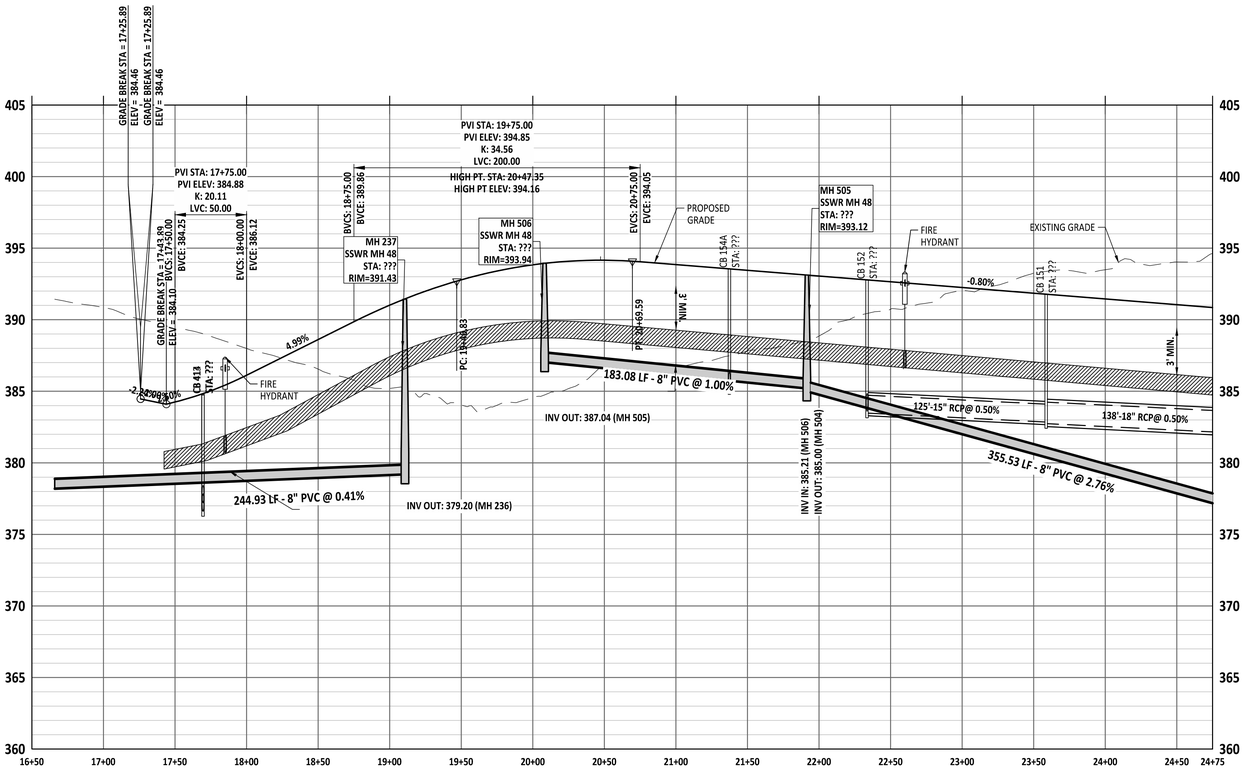
SHEET TITLE:
JOCUND STREET PLAN & PROFILE

SHEET NO.:
CS-220

Z:\Jobs\23-0004 Merritt Property (RBP/Jaap)_Working Dwgs\Sheets\Construction Set\SR. CS-220 JOCUND STREET PLAN & PROFILE.dwg

2025-07-02





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

Public
Sewer Collection / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

Public
Water Distribution / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P KLEIN

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

STIPULATION FOR REUSE

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MERRITT RESERVE
JOCUND STREET PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

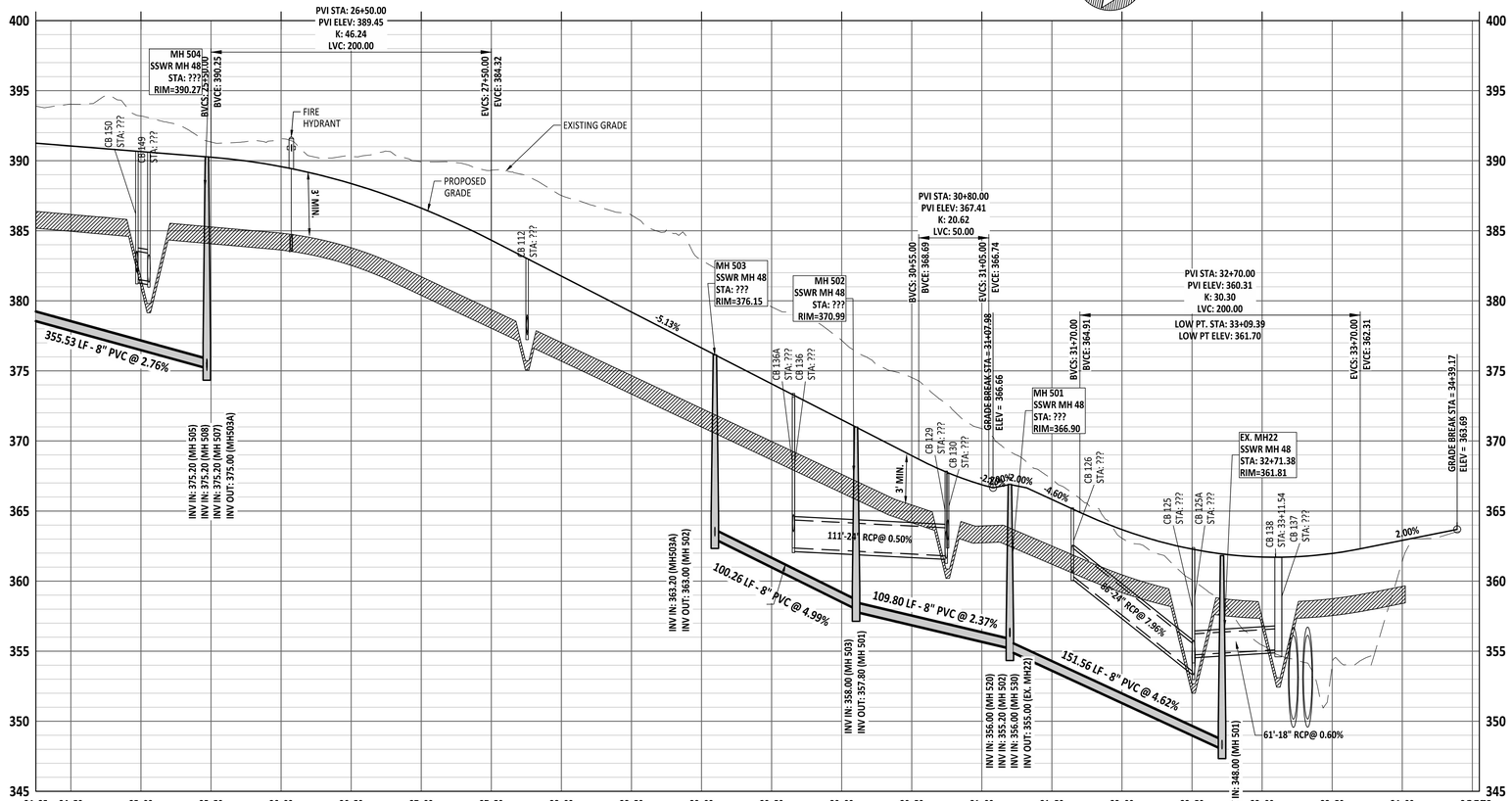
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
JOCUND STREET PLAN & PROFILE

SHEET NO.:
CS-221

Z:\Jobs\23-0004 Merritt Property (BRP)\wip_ Working Dwgs\Sheets\Construction Set\SR_CS 220 JOCUND STREET PLAN & PROFILE.dwg

2025-07-01



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

Public
Sewer Collection / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 56528 ENGINEER JAKOB P KLEIN

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

STIPULATION FOR REUSE

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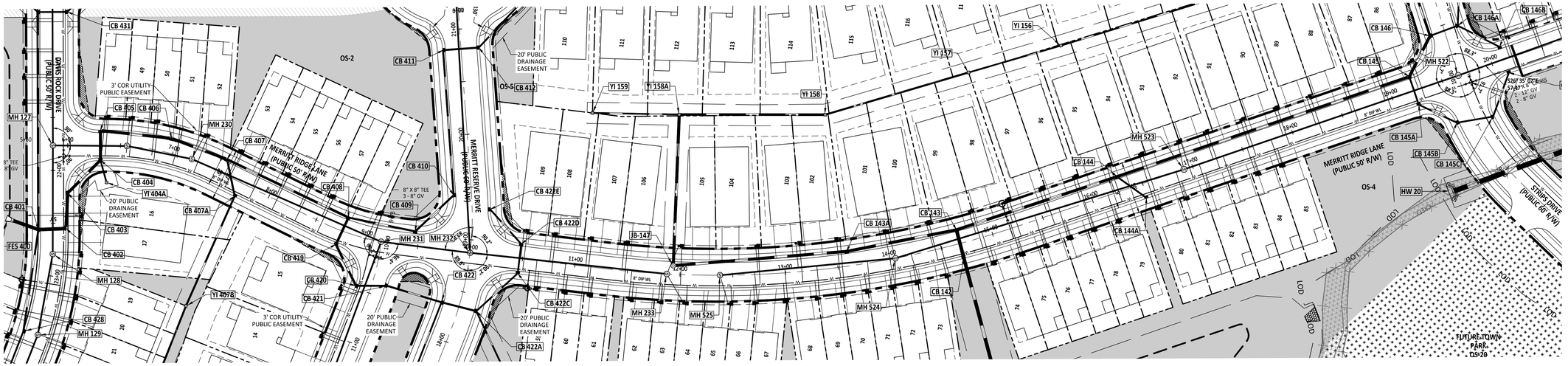
MERRITT RESERVE
JOCUND STREET PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

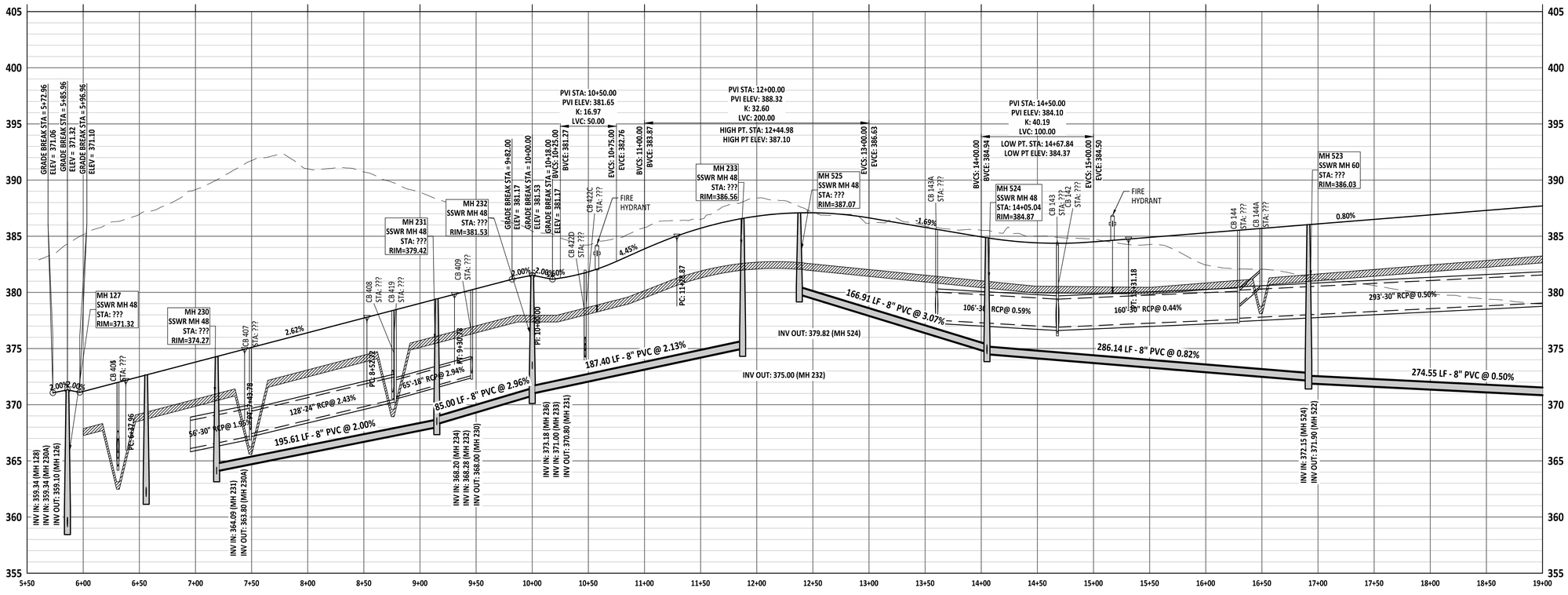
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
JOCUND STREET PLAN & PROFILE

SHEET NO.:
CS-222



MERRITT RIDGE LANE



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

City of Raleigh
Public Utilities Department Permit # _____

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

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

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

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.

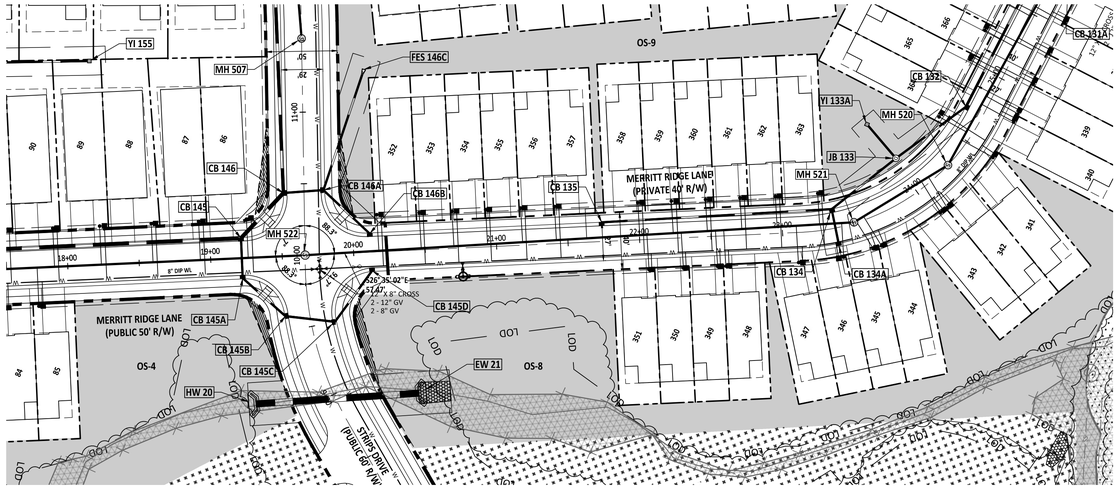
MERRITT RESERVE
MERRITT RIDGE LANE PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

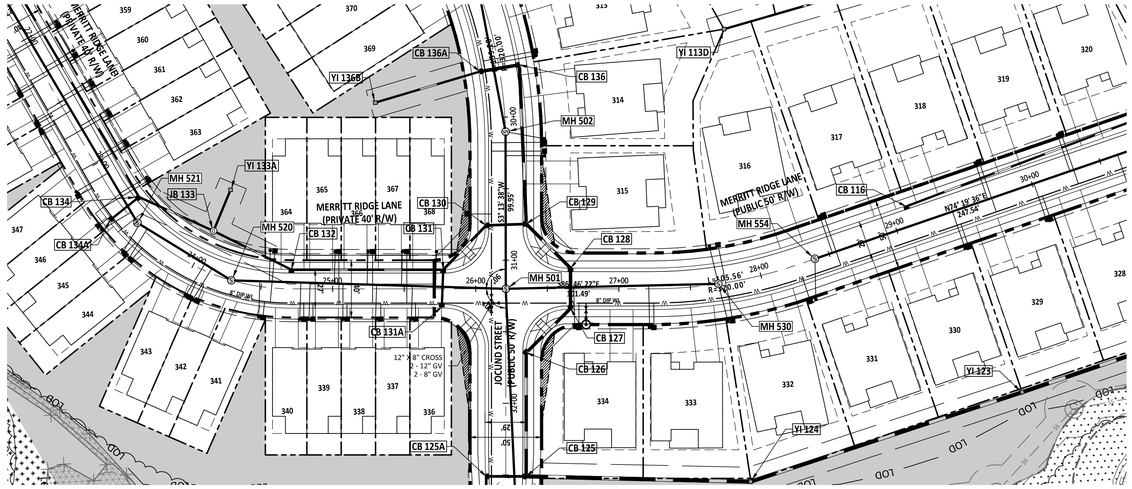
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

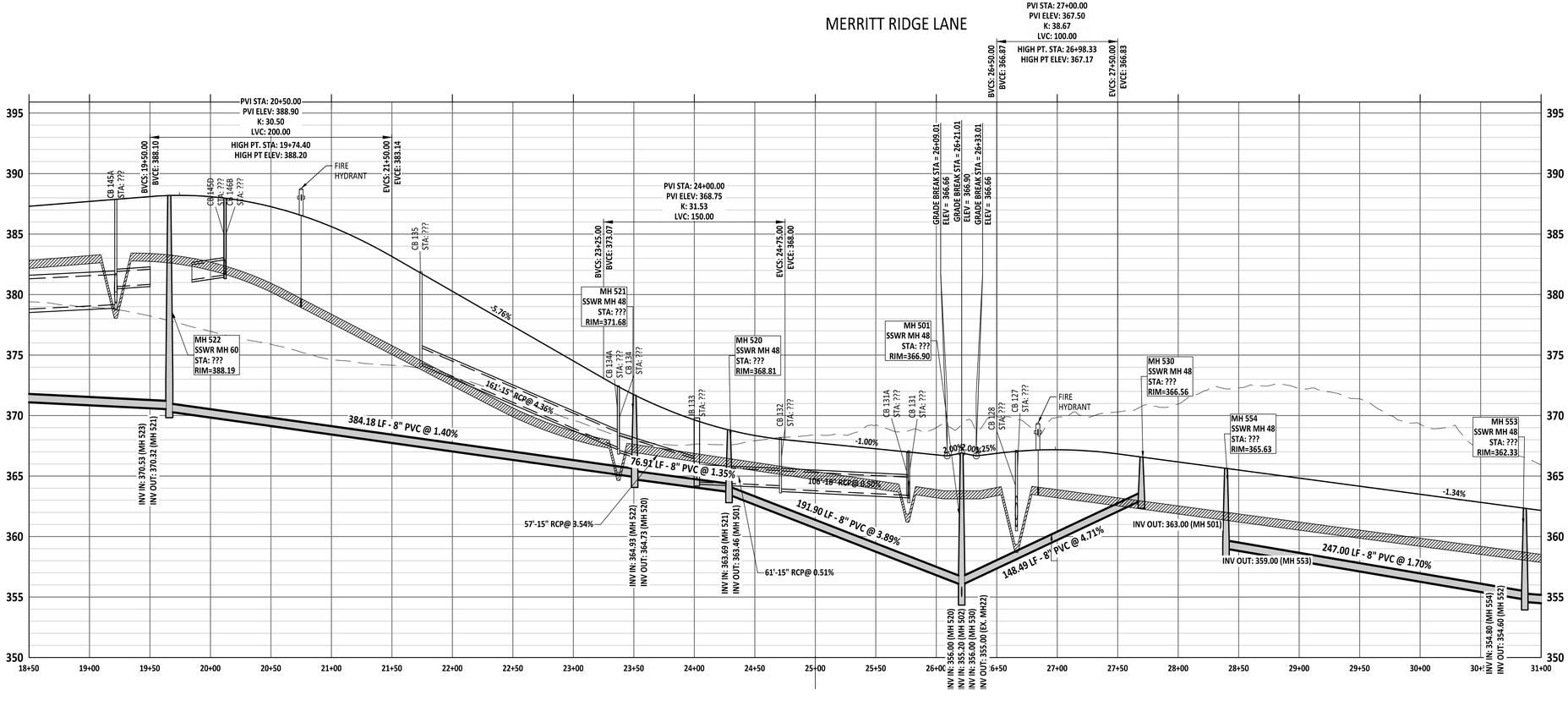
SHEET TITLE:
MERRITT RIDGE LANE PLAN & PROFILE

SHEET NO.
CS-230

Z:\Jobs\23-0004 Merritt Property (BRD)\Awg_Working Dwgs\Sheets\Construction Set\CS_CS-230 MERRITT RIDGE LN PLAN & PROFILE.dwg
2025-07-02







GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

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

PROJECT NUMBER = CID-25-02

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

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

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3851 CERTIFICATE OF AUTHORIZATION

PRELIMINARY
PRELIMINARY
NOT FOR RECORDATION
DO NOT USE FOR CONSTRUCTION
36528
JAKOB P. KLEIN
ENGINEER
FOR INFORMATION, ONLY

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

STIPULATION FOR REUSE

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

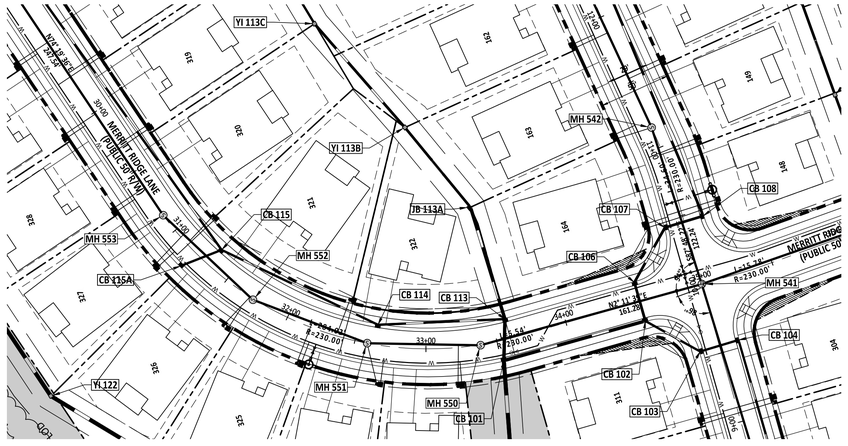
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

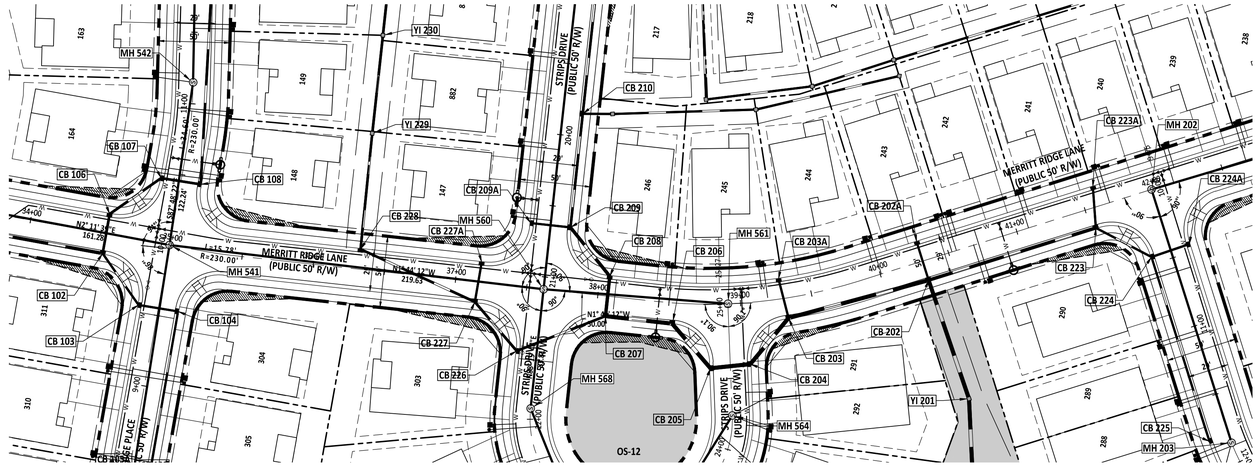
SHEET TITLE:
MERRITT RIDGE LN PLAN & PROFILE

SHEET NO.:
CS-231

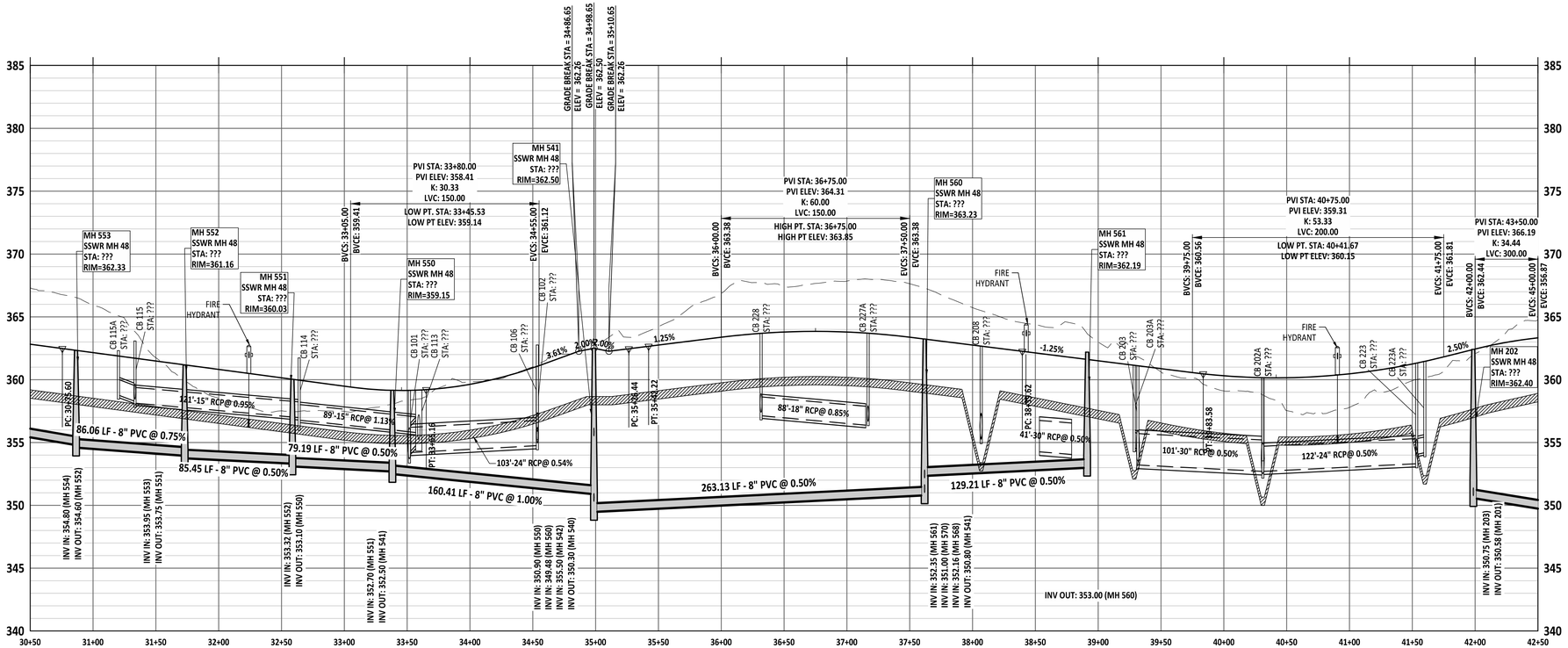
Z:\Jobs\23-0004 Merritt Property (RTP)\Revit_Working Dwgs\Sheets\Construction Set\SD- CS-230 MERRITT RIDGE LN PLAN & PROFILE.dwg

2025-07-01





MERRITT RIDGE LANE



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

Public

Sewer Collection / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Public

Water Distribution / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

NORTH CAROLINA AMERICAN ENGINEERING ASSOCIATES SOUTHEAST C-3851 CERTIFICATE OF AUTHORIZATION

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

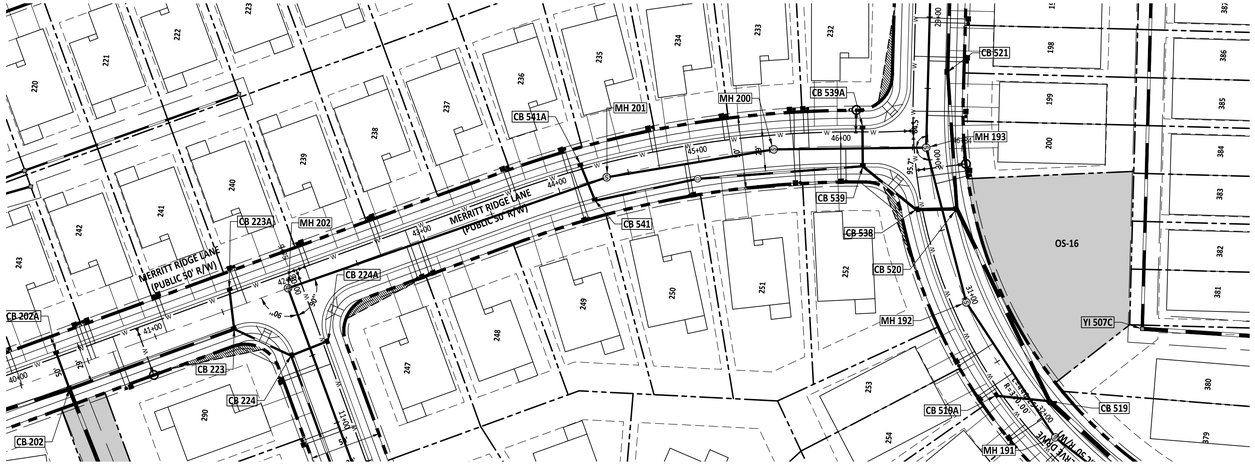
SHEET TITLE:
MERRITT RIDGE LN PLAN & PROFILE

SHEET NO.:
CS-232

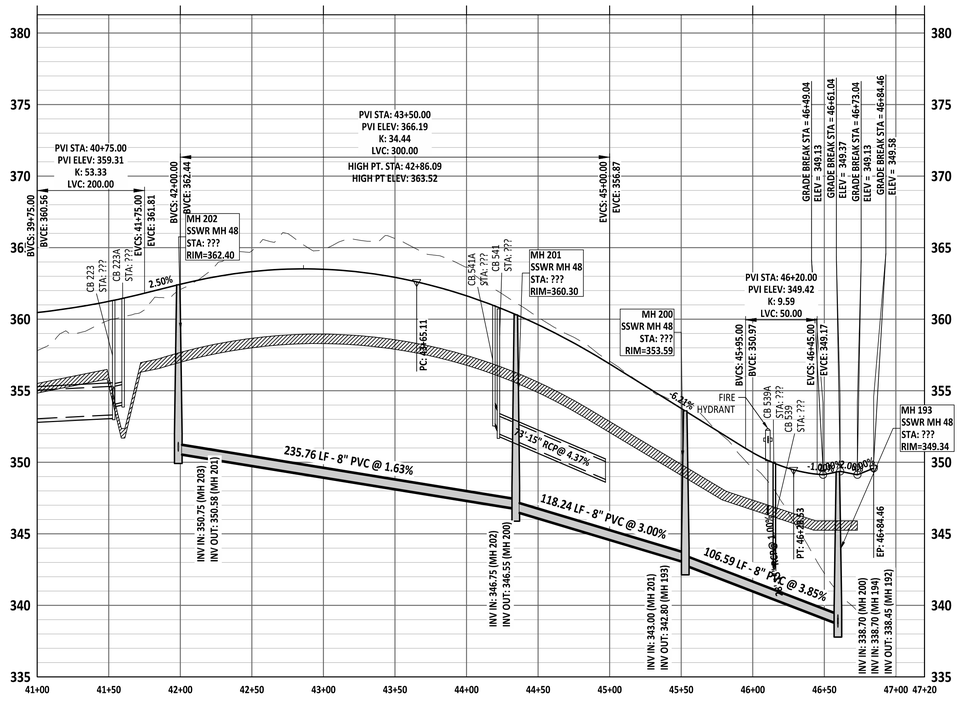
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merrit Property (BRD)\dwg_Working Dwgs\Sheets\Construction Set\40_CS-232 MERRITT RIDGE LN PLAN & PROFILE.dwg

2025-07-01



MERRITT RIDGE LANE



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

Public

Sewer Collection / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

Public

Water Distribution / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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
JACOB P. KLEIN
36528
ENGINEER
FOR INFORMATION, ONLY

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

STIPULATION FOR REUSE

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

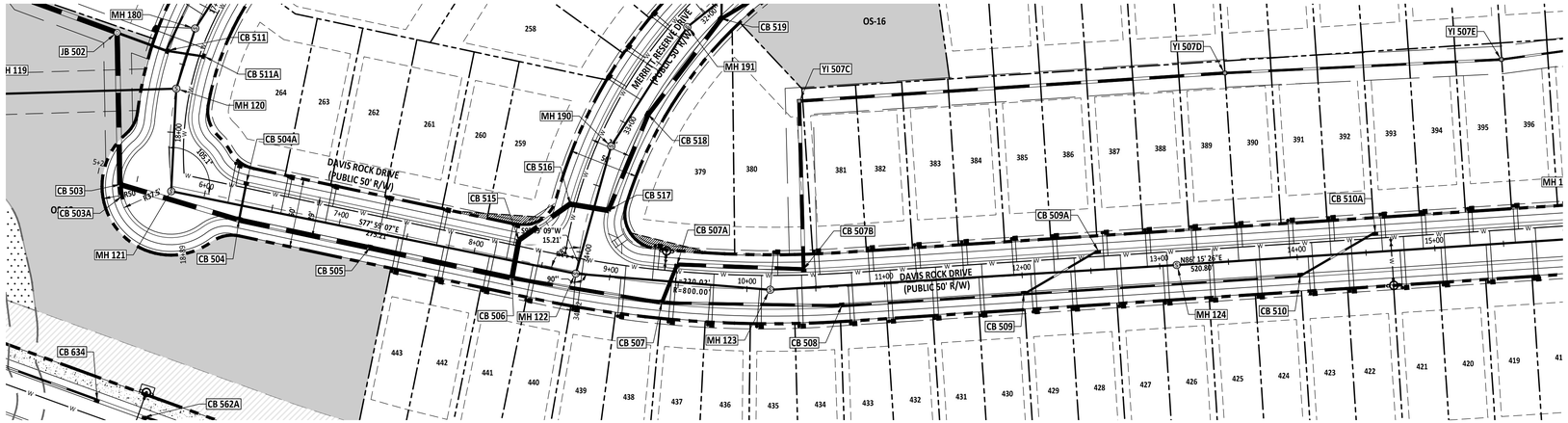
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
MERRITT RIDGE LN PLAN & PROFILE

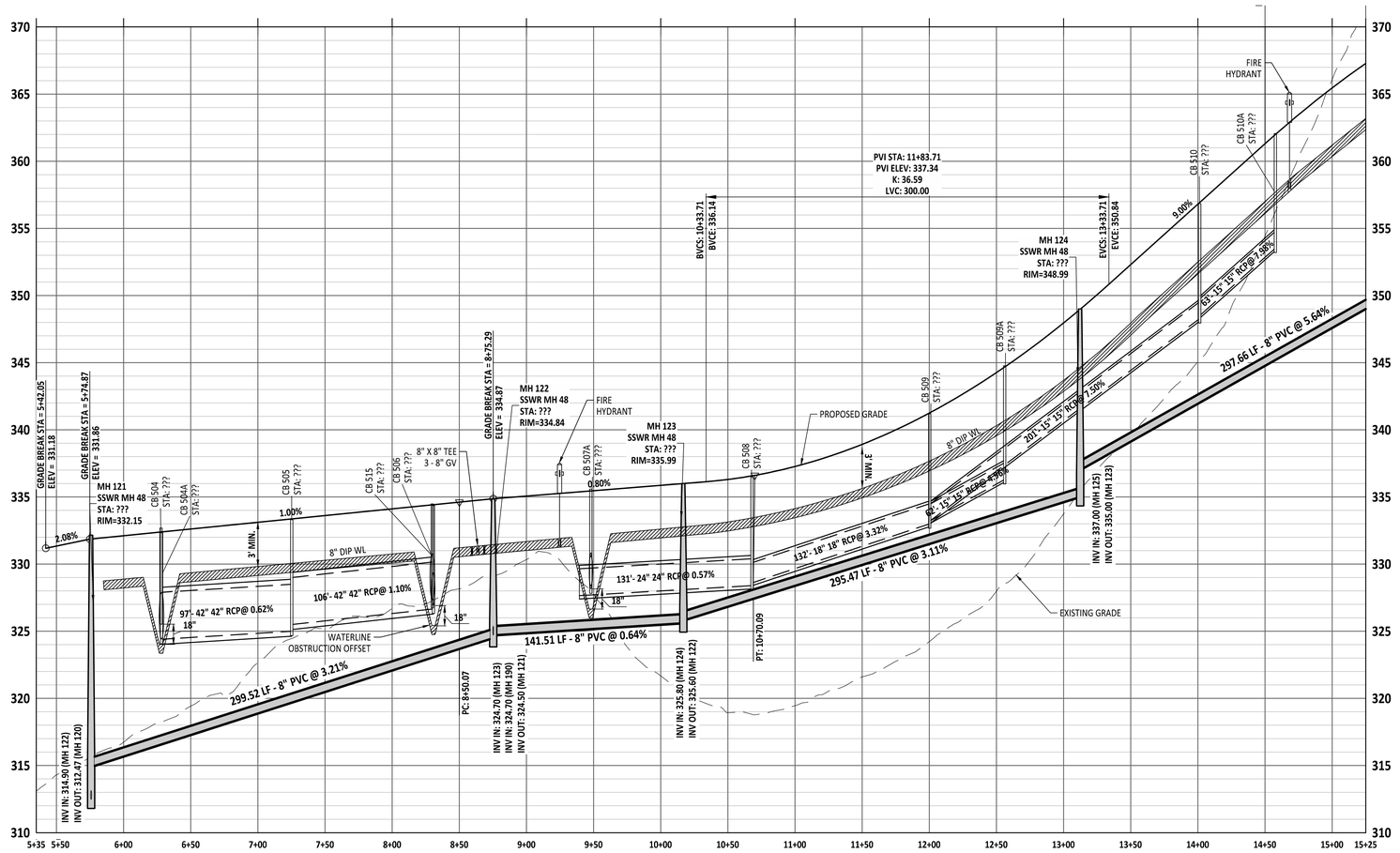
SHEET NO.:
CS-233

Z:\Jobs\23-0004 Merritt Property (BTP)\Revit_Working Dwgs\Sheets\Construction Set\CS-233 MERRITT RIDGE LN PLAN & PROFILE.dwg

2025-07-01



DAVIS ROCK DRIVE PLAN



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

City of Raleigh
Public Utilities Department Permit # _____

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

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

STIPULATION FOR REUSE

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MERRITT RESERVE
DAVIS ROCK DRIVE 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 DRIVE PLAN & PROFILE

SHEET NO.:
CS-240

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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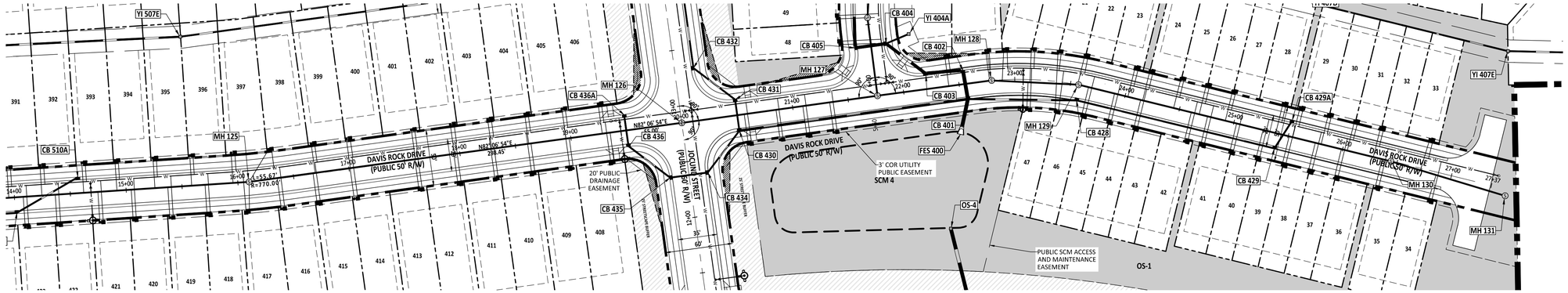
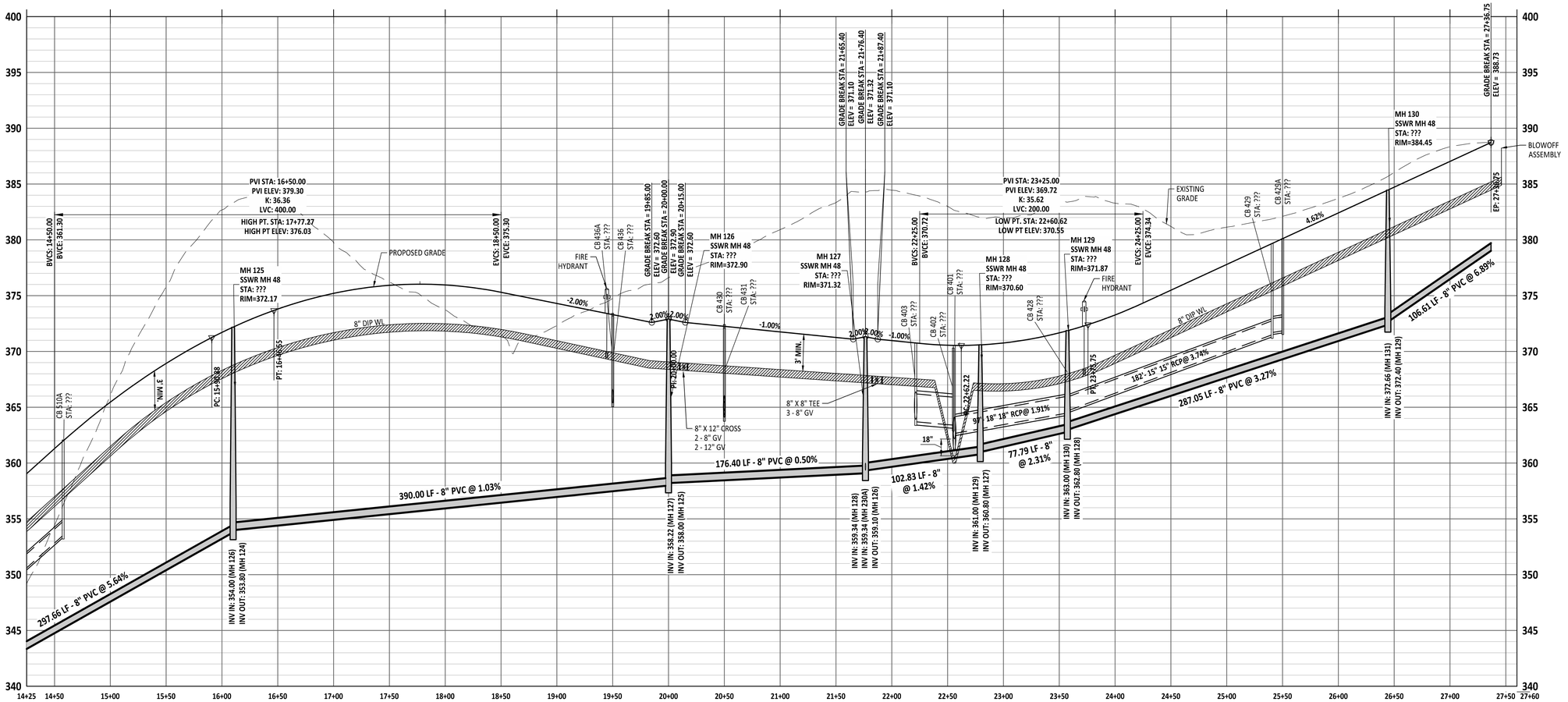
2025-07-01



DAVIS ROCK DRIVE PLAN



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

Public
Sewer Collection / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

Public
Water Distribution / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

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

STIPULATION FOR REUSE

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MERRITT RESERVE
DAVIS ROCK DRIVE 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

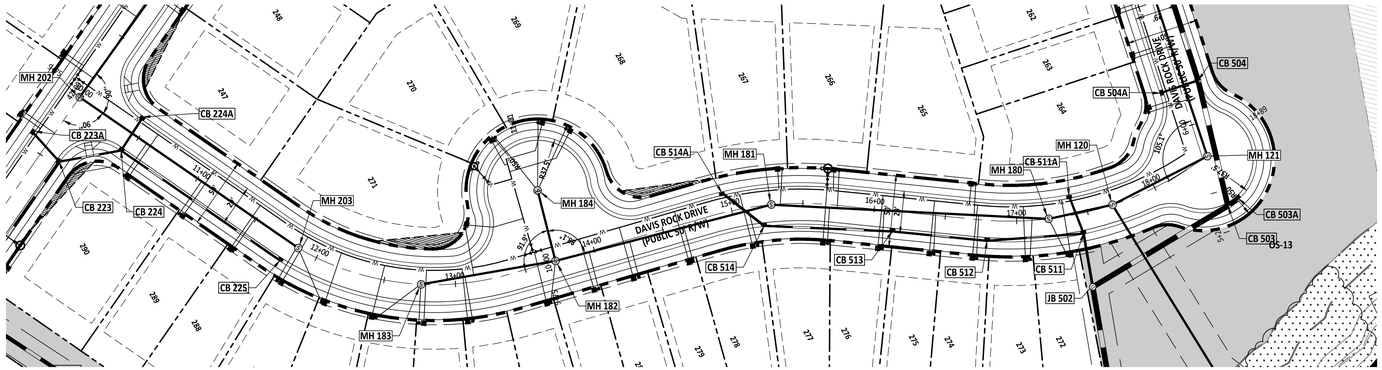
SHEET TITLE:
DAVIS ROCK DRIVE PLAN & PROFILE

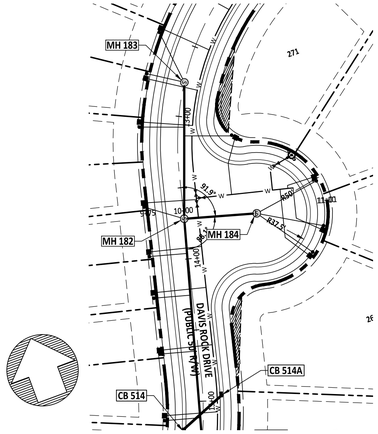
SHEET NO.:
CS-241

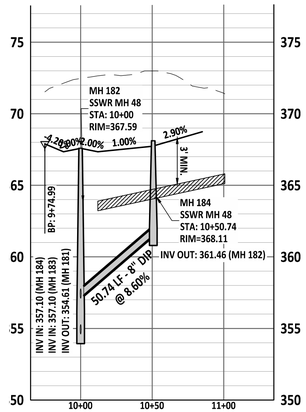
North Carolina 811 Before You Dig
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

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

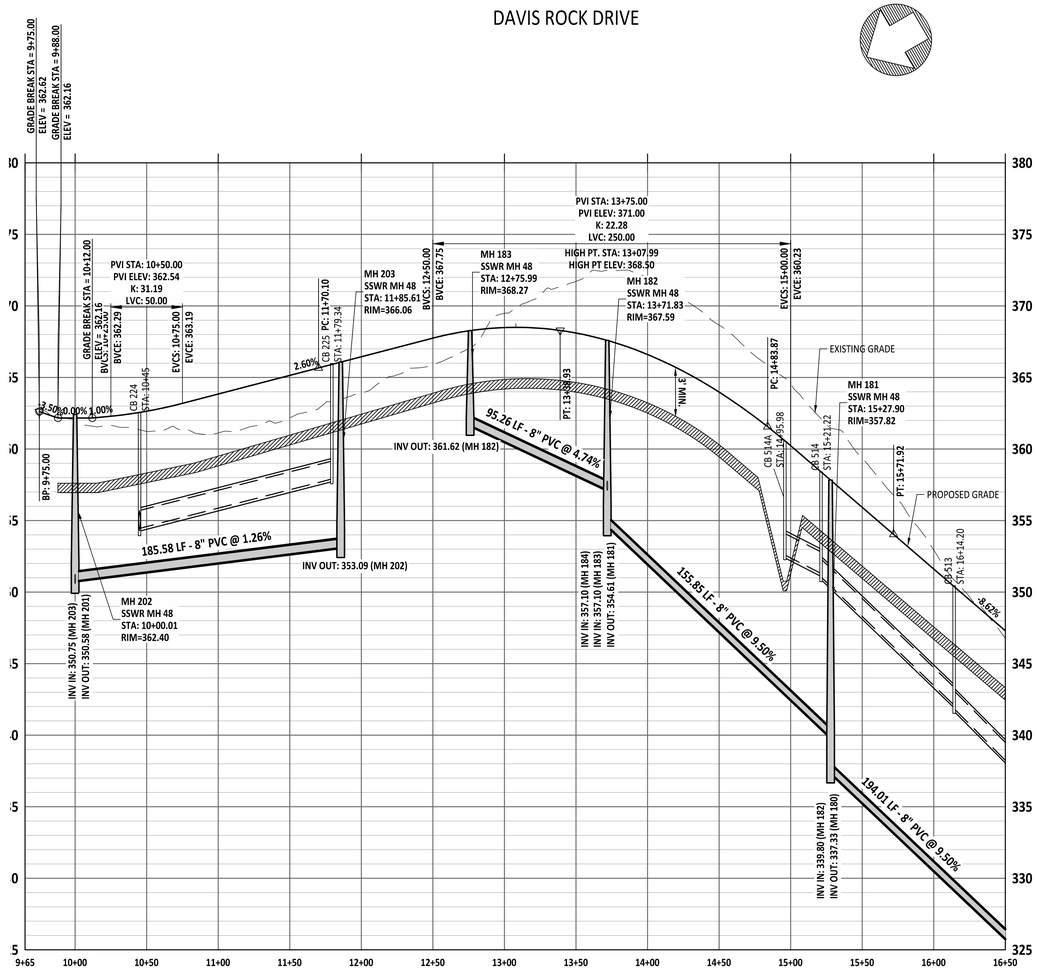
2025-07-01

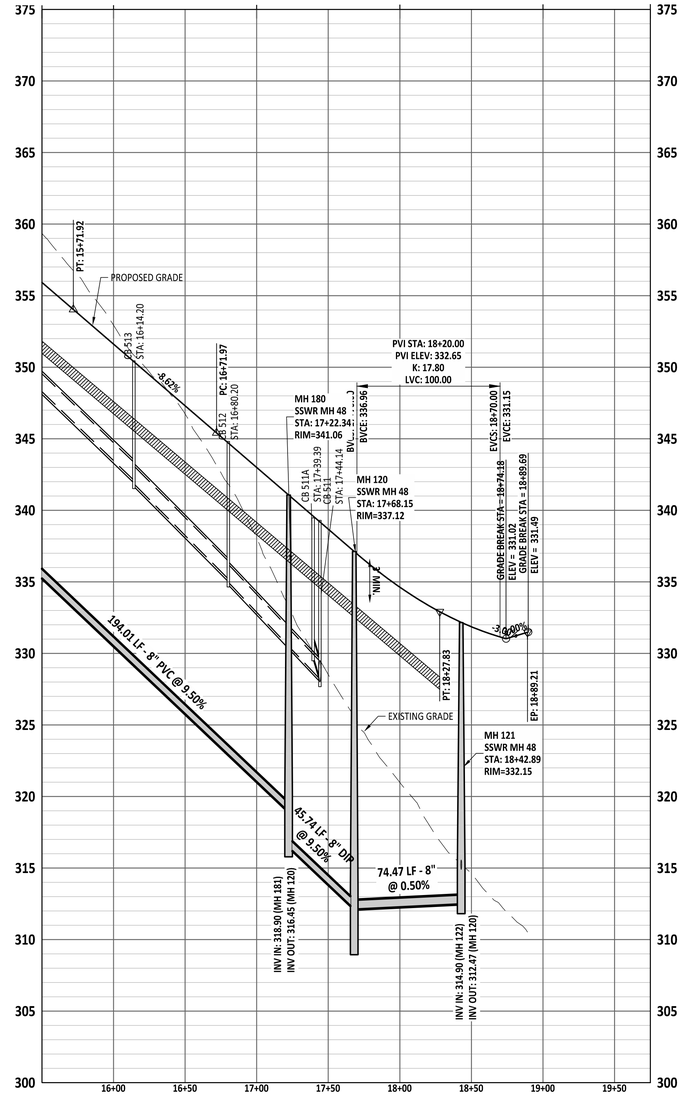






DAVIS ROCK DRIVE





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

Public

Sewer Collection / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Public

Water Distribution / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

PRELIMINARY

NORTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — 36528 — JACOB P. KLEIN

DO NOT USE FOR CONSTRUCTION

FOR INFORMATION, ONLY

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

STIPULATION FOR REUSE

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MERRITT RESERVE

DAVIS ROCK DRIVE 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 DRIVE PLAN & PROFILE

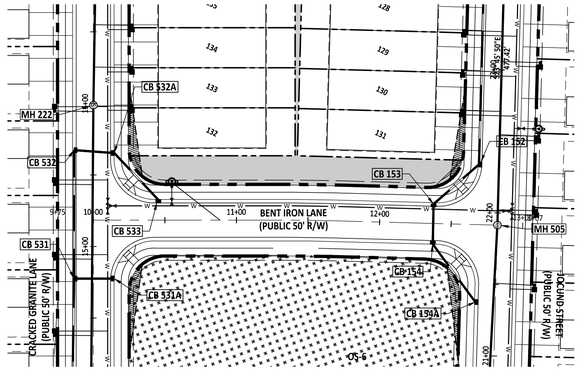
SHEET NO.:

CS-242

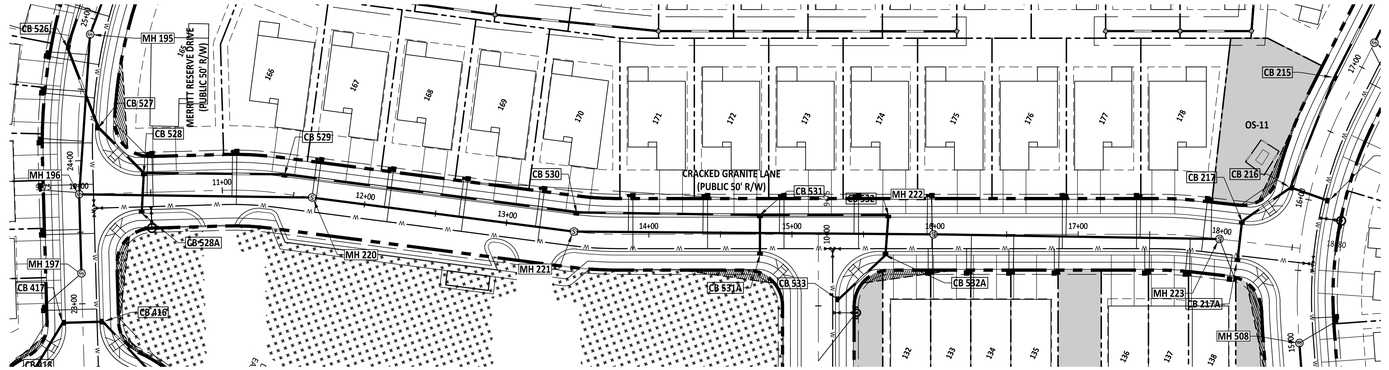
North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

Z:\Jobs\23-0004 Merritt Property (BRD)\dwg_Working Dwg\Sheets\Construction Set\43a. CS-270 DAVIS ROCK DRIVE PLAN & PROFILE.dwg

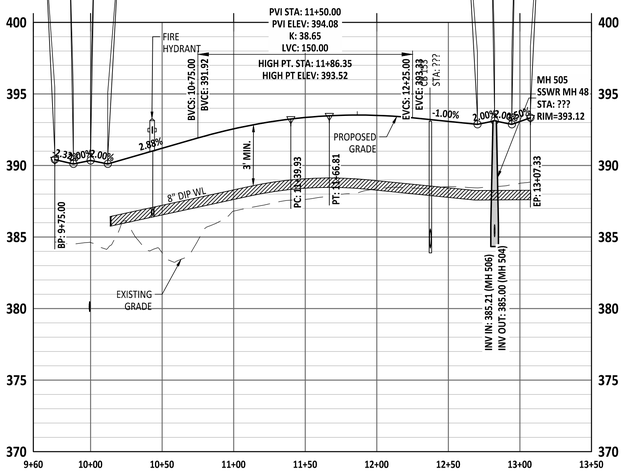
2025-07-01

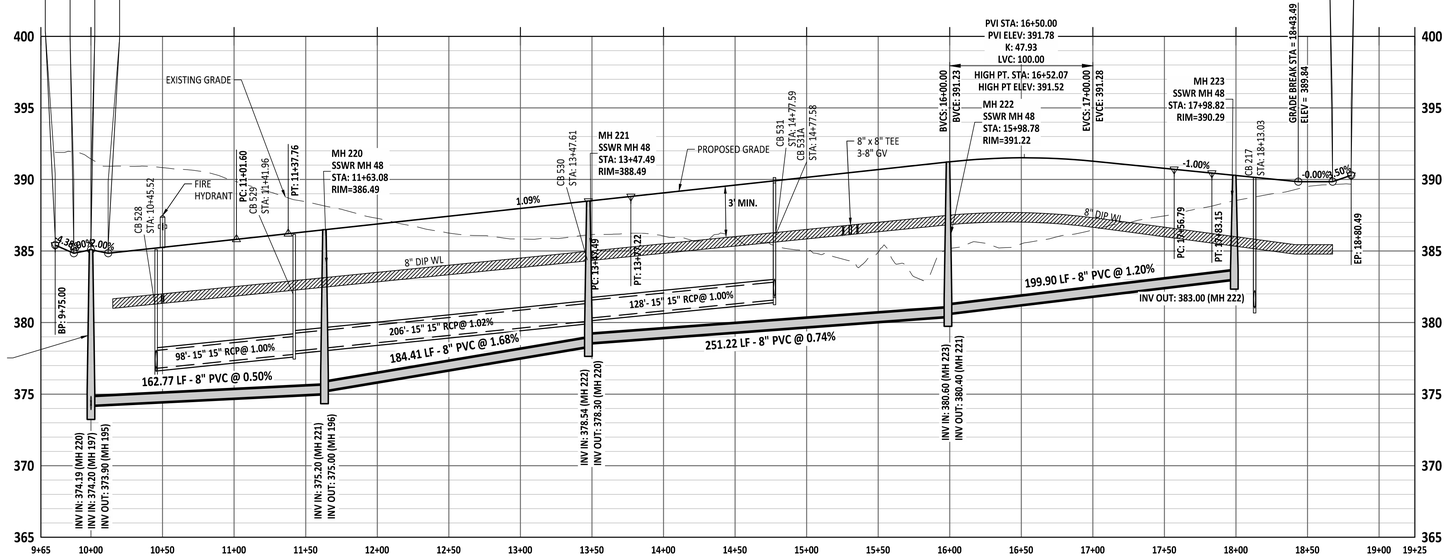


BENT IRON LANE



CRACKED GRANITE LANE





GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

Public
Sewer Collection / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

Public
Water Distribution / Extension System

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

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

FOR INFORMATION, ONLY

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

STIPULATION FOR REUSE

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MERRITT RESERVE
BENT IRON LN & CRACKED GRANITE LN PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

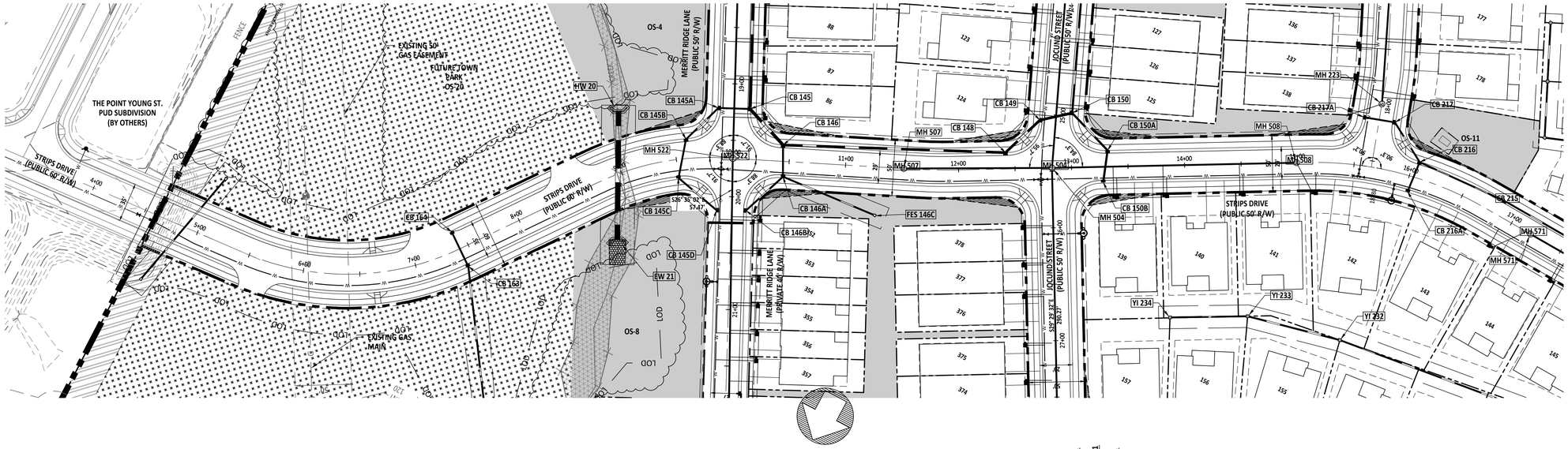
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
BENT IRON LN & CRACKED GRANITE LN PLAN & PROFILE

SHEET NO.:
CS-250

T:\Jobs\23-0004 Merritt Property BRP\Revit_Working Dwgs\Sheets\Construction Set\42. CS-250 BENT IRON LN & CRACKED GRANITE LN PLAN & PROFILE.dwg

2025-07-01



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

PROJECT NUMBER = CID-25-02

AMERICAN Engineering

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

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

PRELIMINARY

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

FOR INFORMATION, ONLY

NO.	DATE	REVISION:
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MERRITT RESERVE

STRIPS 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

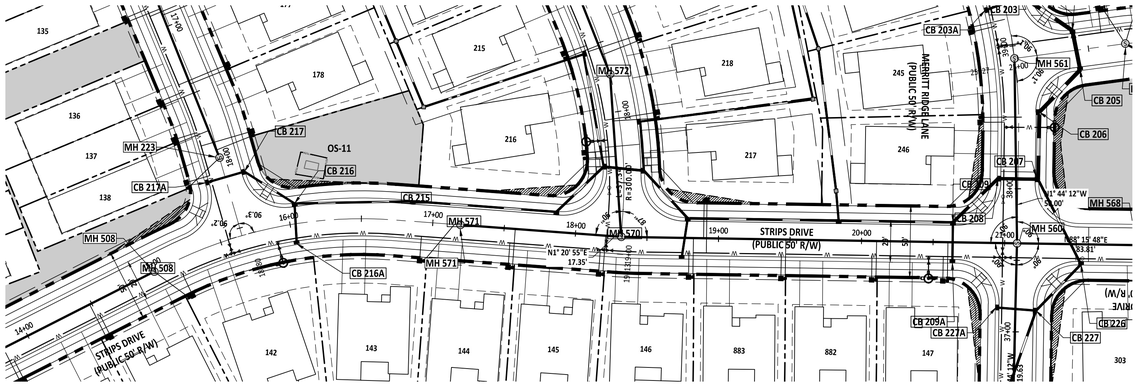
SHEET TITLE:

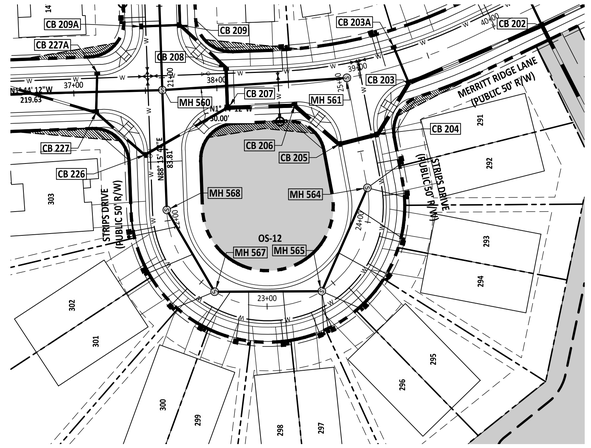
STRIPS DR PLAN & PROFILE

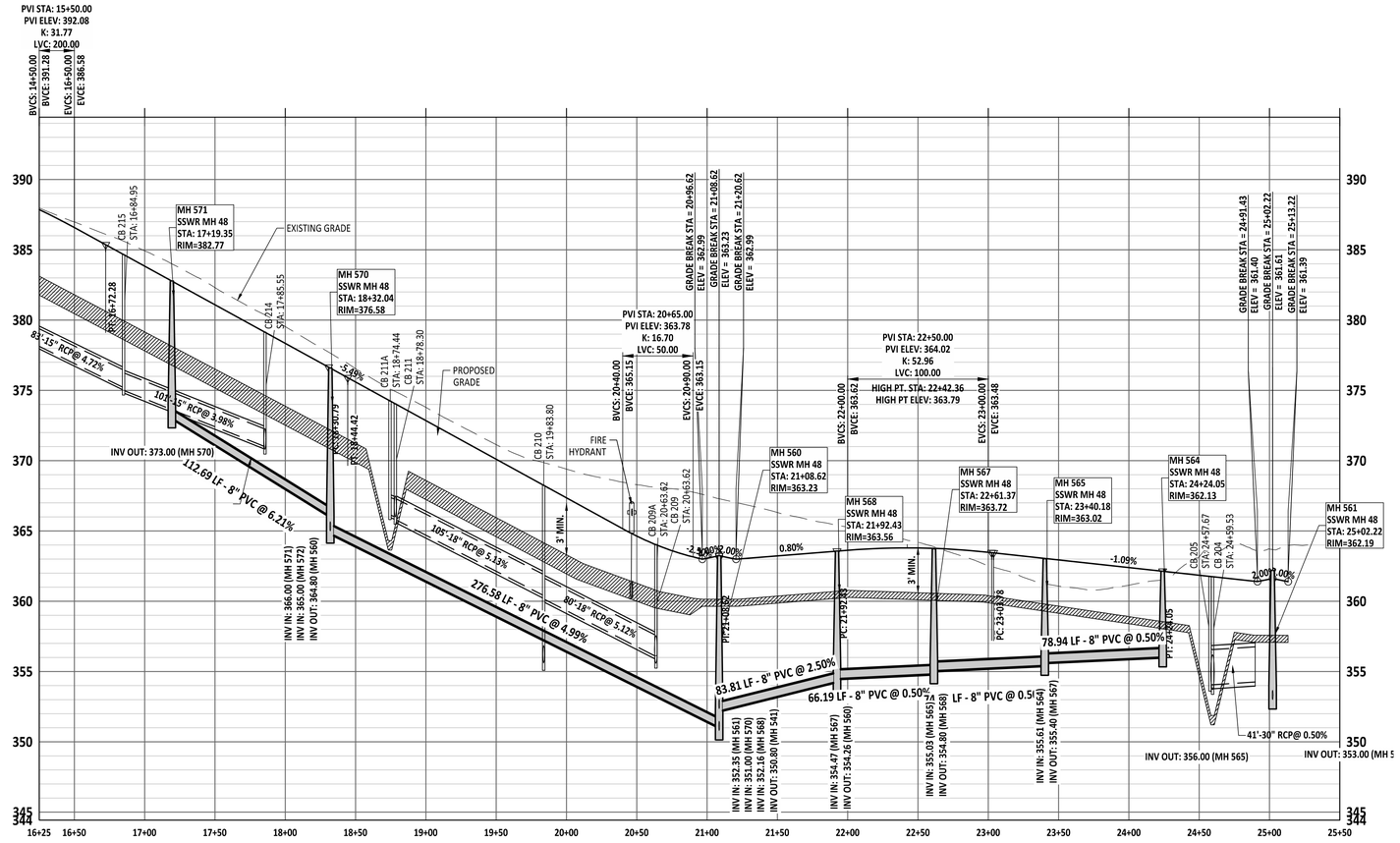
SHEET NO.:

CS-260

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







GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

City of Raleigh
Public Utilities Department Permit # _____

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

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

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

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MERRITT RESERVE

STRIPS 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:
STRIPS DR PLAN & PROFILE

SHEET NO.:
CS-261

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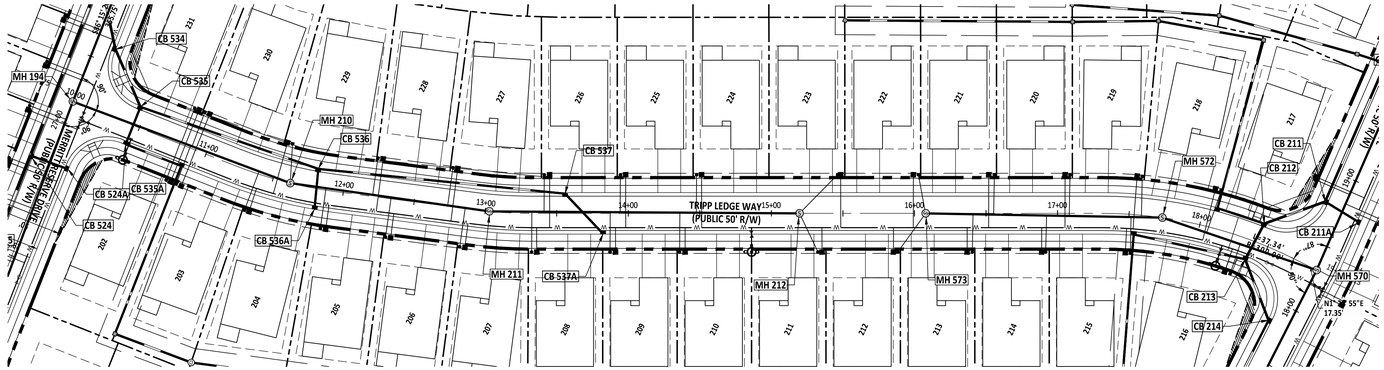
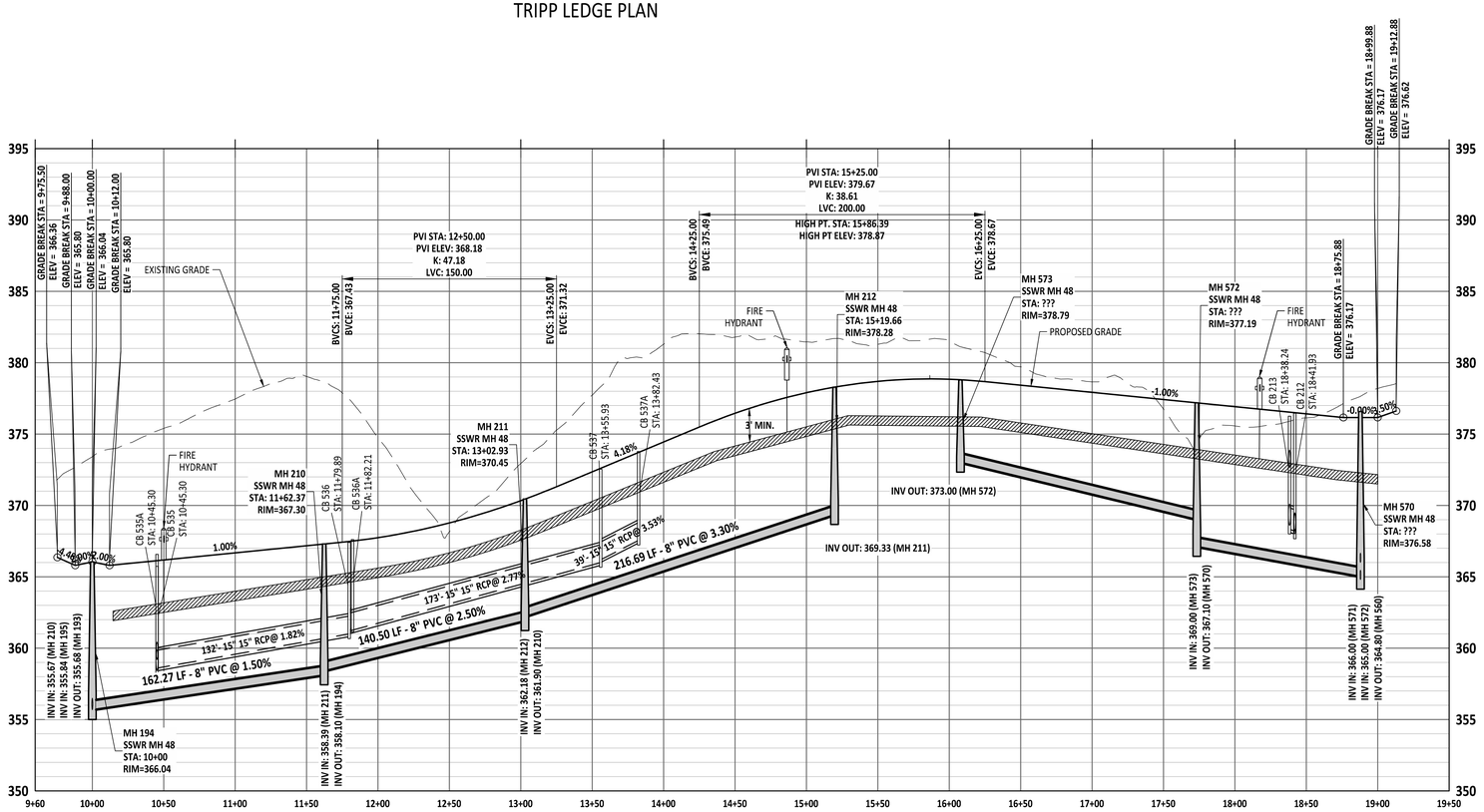
2025-07-01



TRIPP LEDGE PLAN



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft

Public
Sewer Collection / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

PRELIMINARY
NOT FOR RECORDATION
DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA
36528
ENGINEER
JAKOB P. KLEIN

FOR INFORMATION, ONLY

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

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MERRITT RESERVE
TRIPP LEDGE 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:
TRIPP LEDGE WAY PLAN & PROFILE

SHEET NO.:
CS-265

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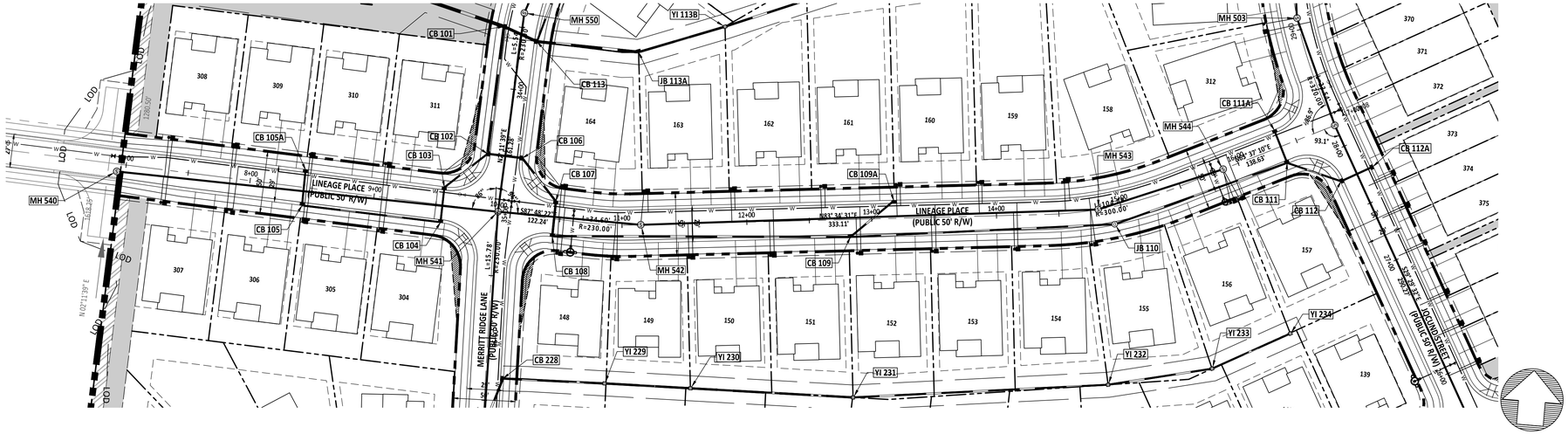
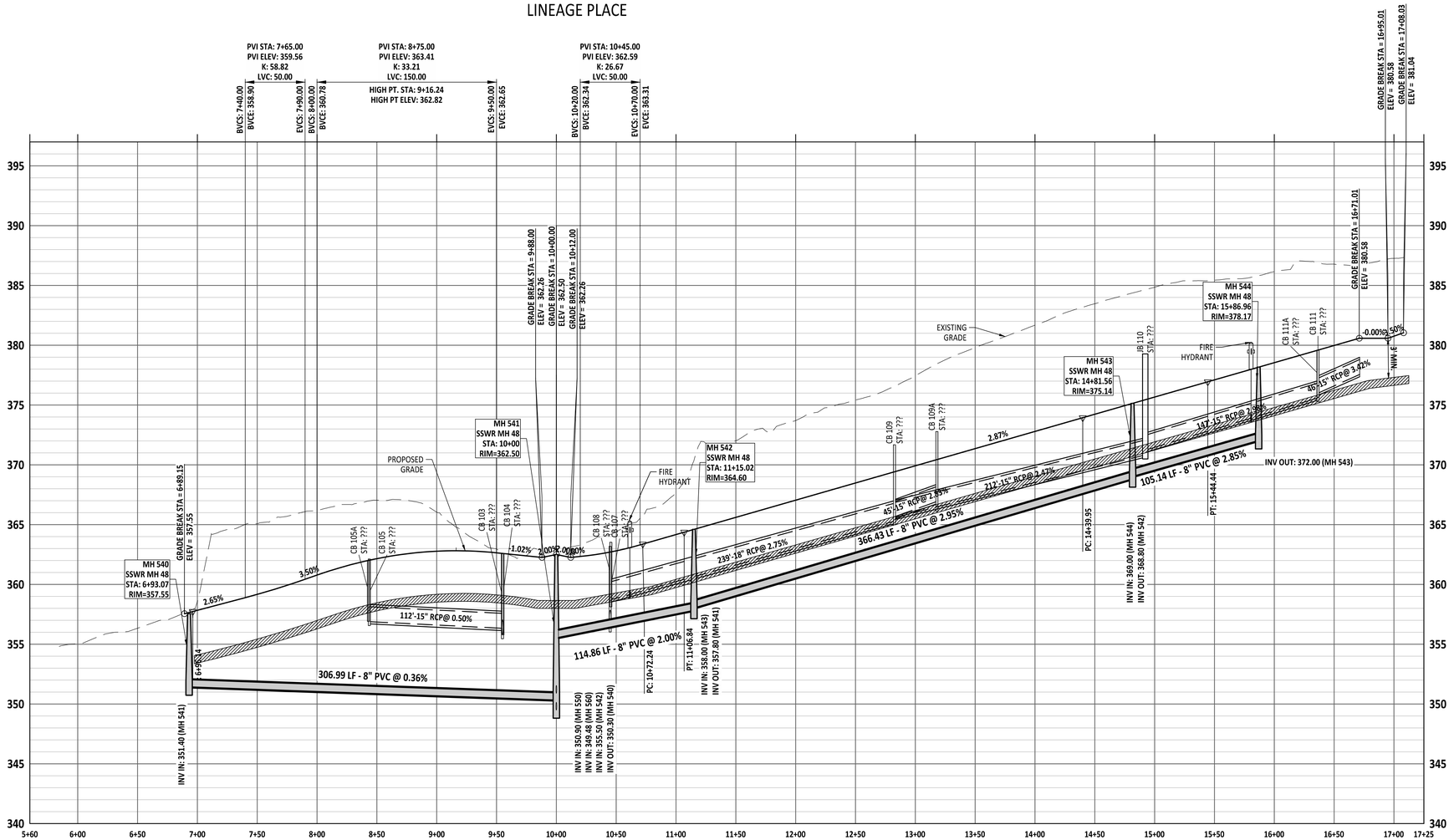
2025-07-01



LINEAGE PLACE



PROJECT NUMBER = CID-25-02

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

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

City of Raleigh
Public Utilities Department Permit # _____

GRAPHIC SCALE

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

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-3861
CERTIFICATE OF AUTHORIZATION

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

FOR INFORMATION, ONLY

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

STIPULATION FOR REUSE

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MERRITT RESERVE

LINEAGE PLACE PLAN & PROFILE

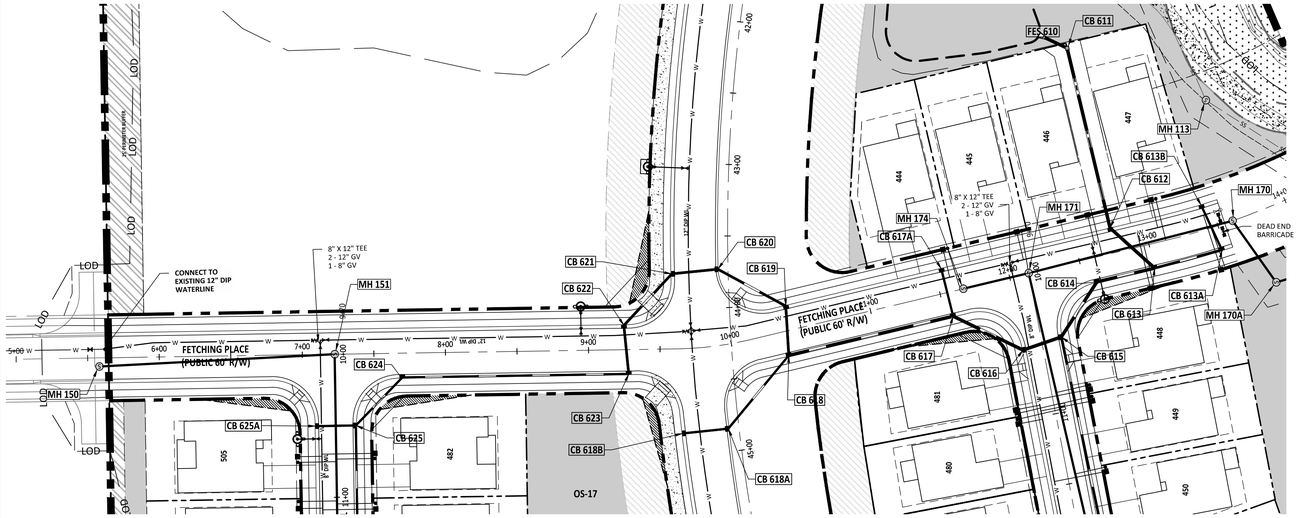
ROLESVILLE RD
WAKE COUNTY NC 27312

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

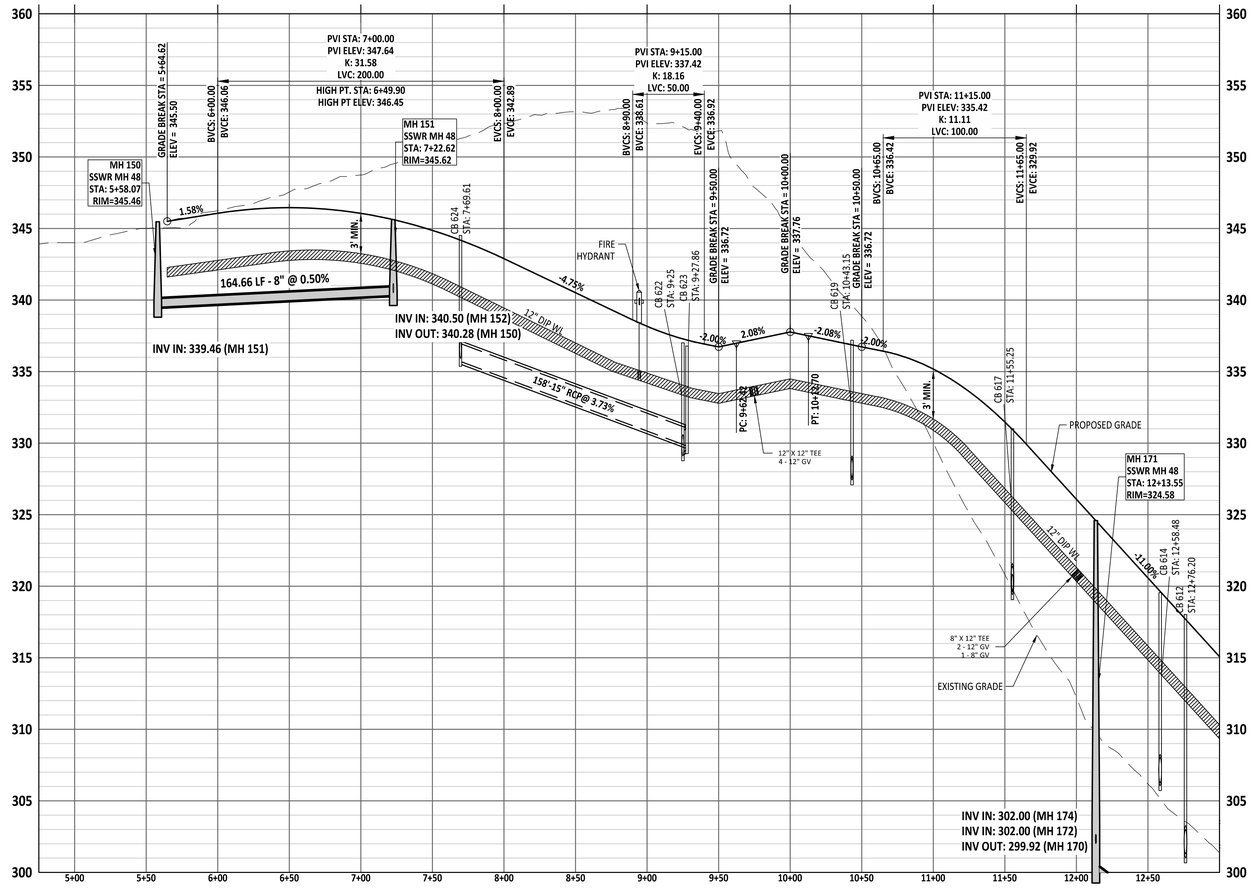
SHEET TITLE:
LINEAGE PLACE PLAN & PROFILE

SHEET NO.:
CS-280

Z:\Jobs\23-0004 Merrit Property (BRD)\Dwg_Working Dwgs\Sheets\Construction Set\CS_CS-280 LINEAGE PLACE PLAN & PROFILE.dwg
2025-07-01



FETCHING PLACE



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

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

City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

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

PRELIMINARY
PRELIMINARY
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 36528 JAKOB P. KLEIN

FOR INFORMATION, ONLY

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

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
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

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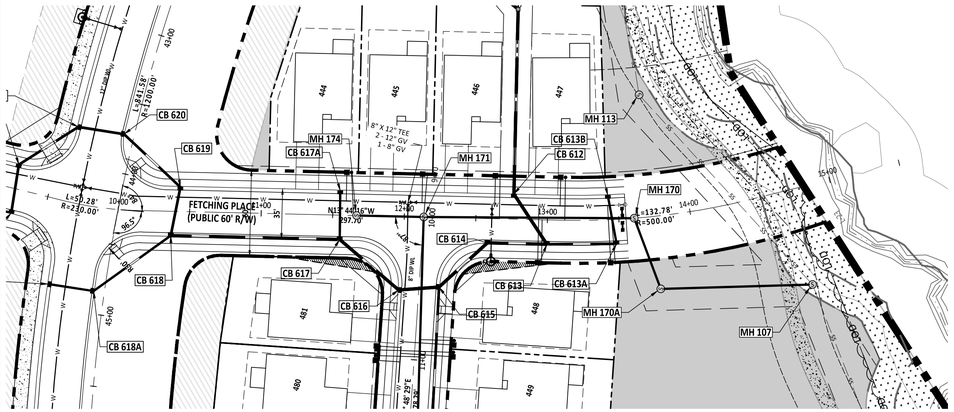
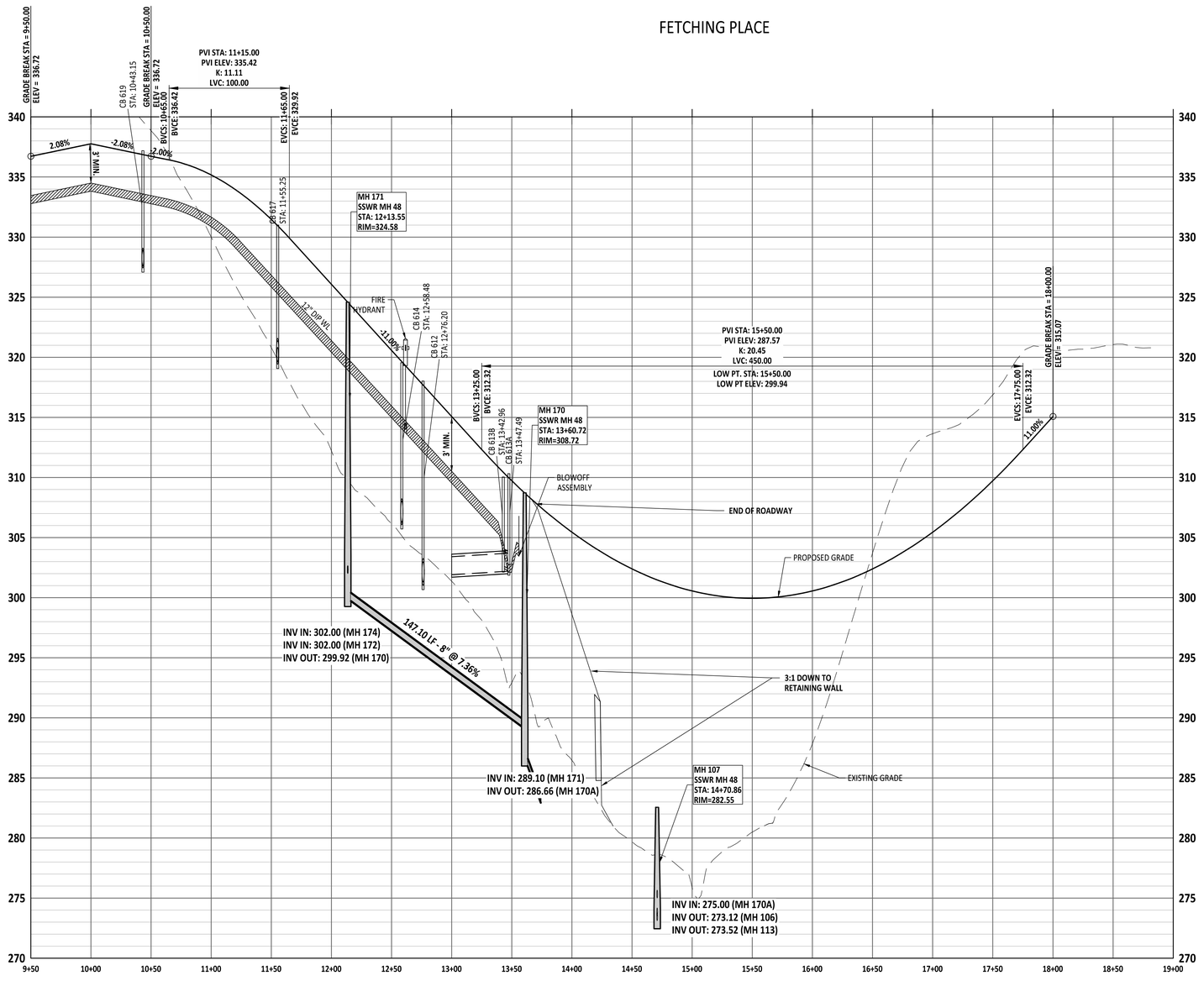
2025-07-02



FETCHING PLACE



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft

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

City of Raleigh
Public Utilities Department Permit # _____

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

PROJECT NUMBER = CID-25-02

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

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

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

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	07-01-25	FIRST REVISION SET

STIPULATION FOR REUSE

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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

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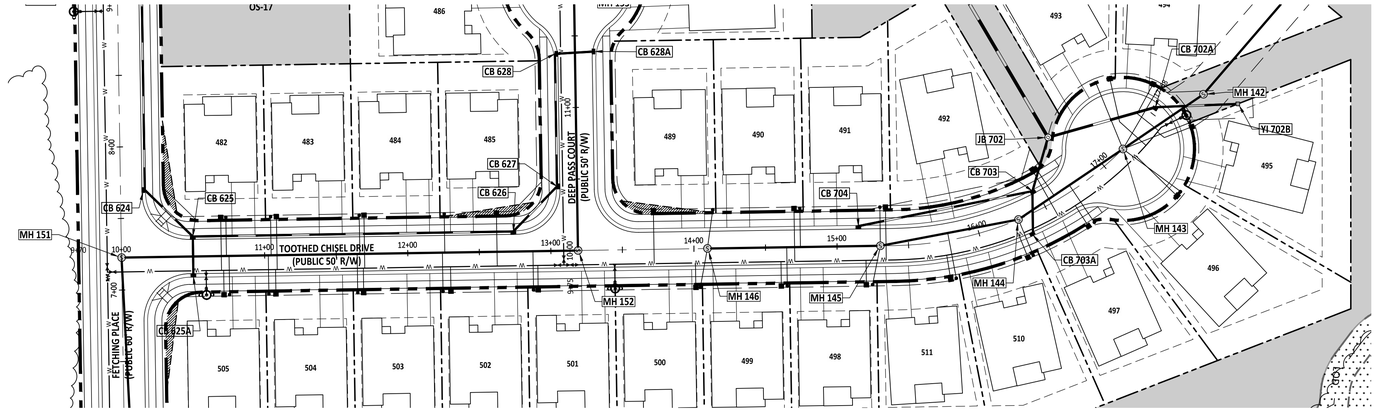
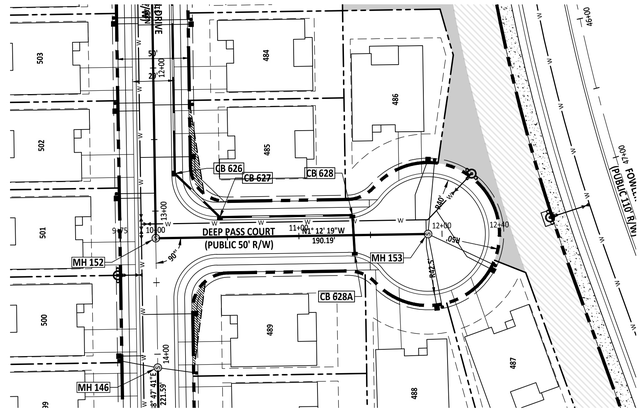
2025-07-01



TOOTHED CHISEL DRIVE

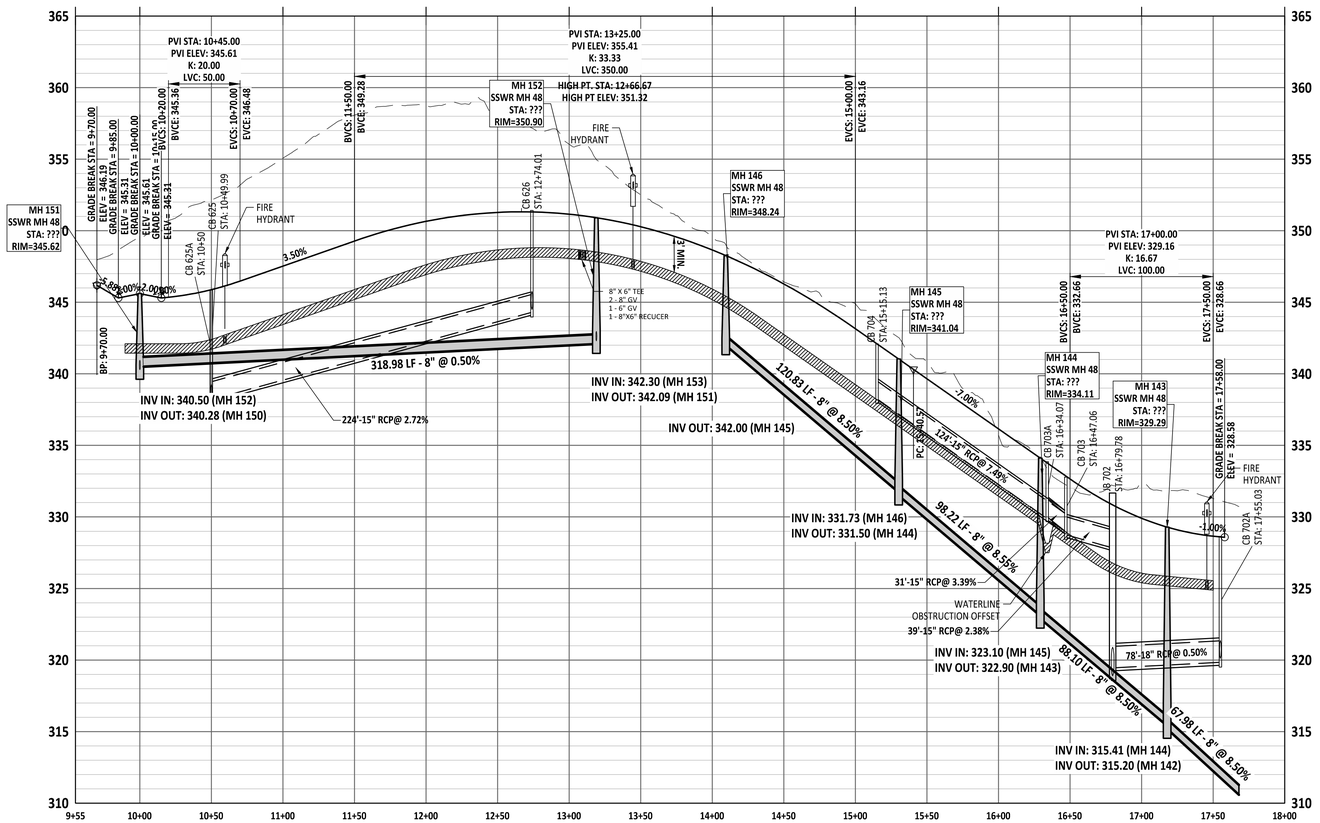


DEEP PASS COURT

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft



Public
Sewer Collection / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

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

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

NORTH CAROLINA BOARD OF EXAMINERS FOR ENGINEERING AND SURVEYING
AMERICAN ENGINEERING ASSOCIATES SOUTHEAST
C-3861
CERTIFICATE OF AUTHORIZATION

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

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

STIPULATION FOR REUSE

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MERRITT RESERVE
TOOTHED CHISEL DR & DEEP PASS CT PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

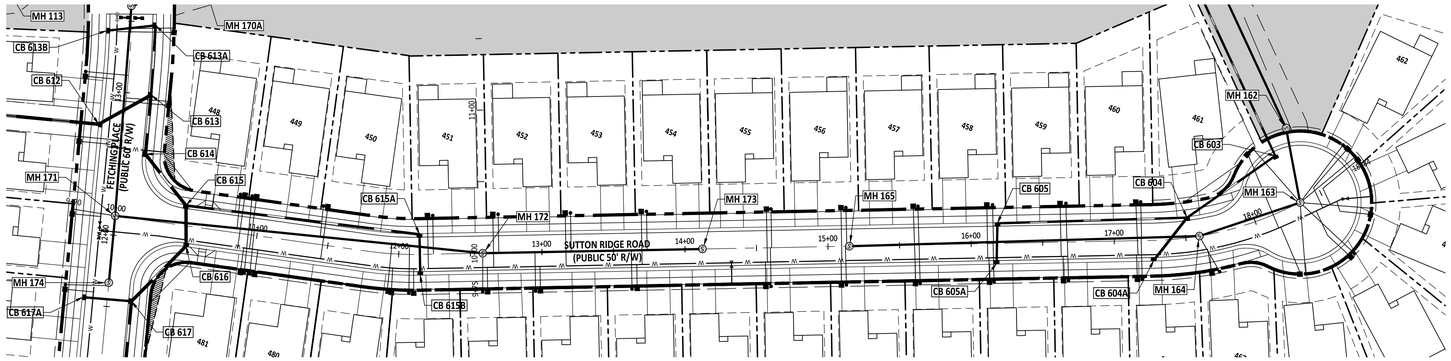
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:

TOOTHED CHISEL DR & DEEP PASS CT PLAN & PROFILE

SHEET NO.:
CS-295

Z:\Jobs\23-0004 Merritt Property (BRD)\dwg_Working Dwgs\Streets\Construction Set\44a. CS-295 TOOTHED CHISEL WAY & DEEP PASS COURT PLAN & PROFILE.dwg
2025-07-02



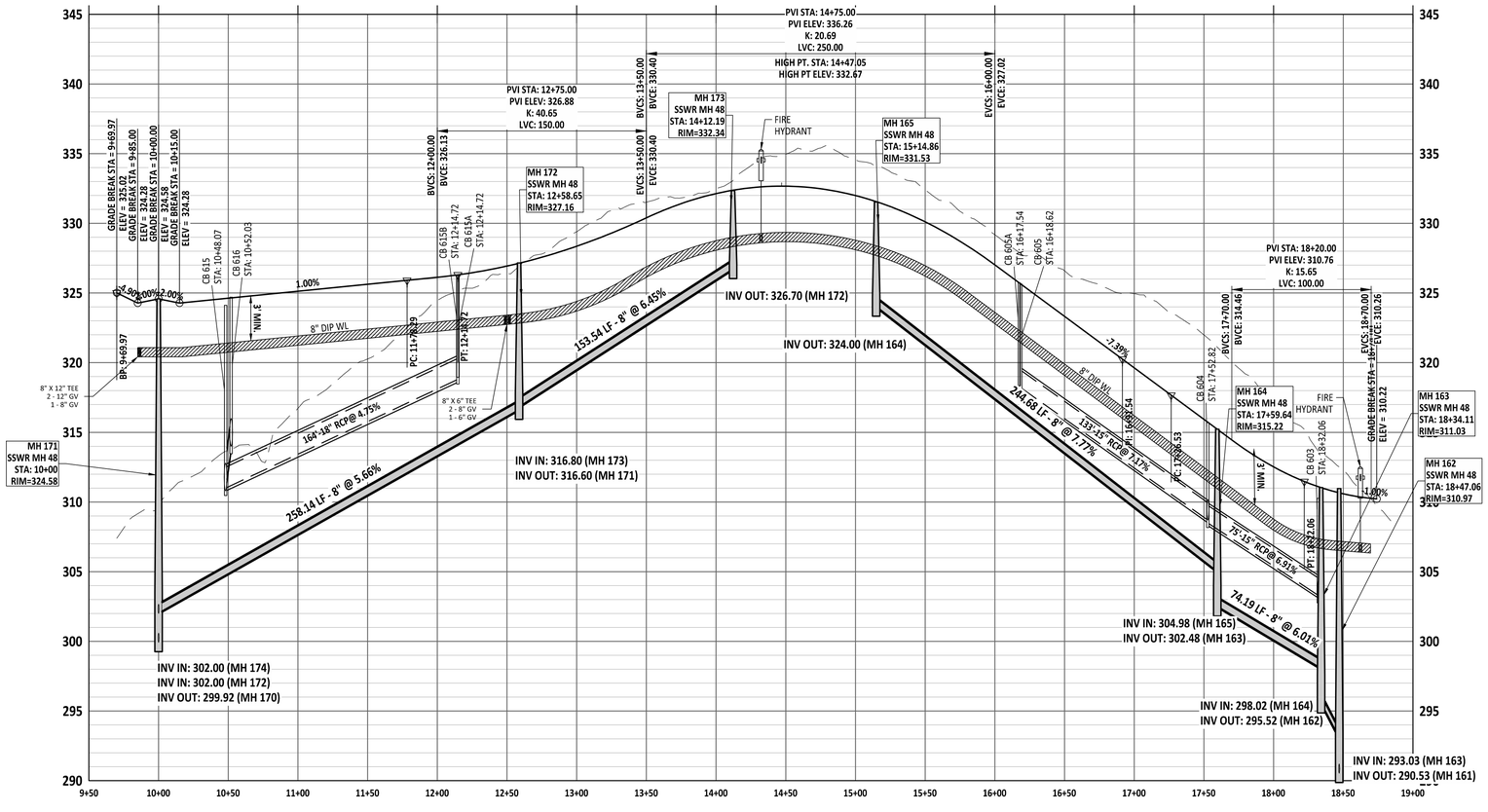
SUTTON RIDGE ROAD

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft



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

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

PROJECT NUMBER = CID-25-02

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

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

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

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

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

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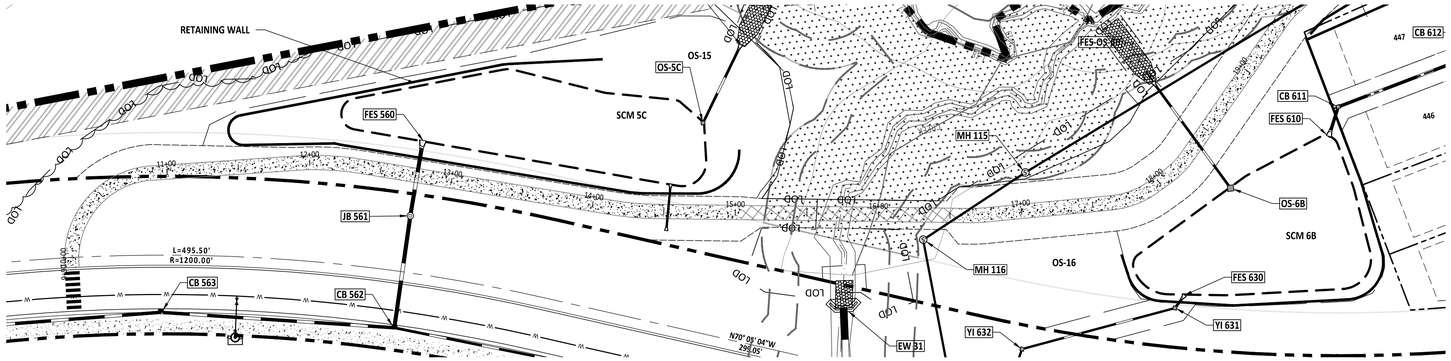
MERRITT RESERVE
SUTTON RIDGE ROAD
PLAN & PROFILE
ROLESVILLE RD
WAKE COUNTY NC 27312

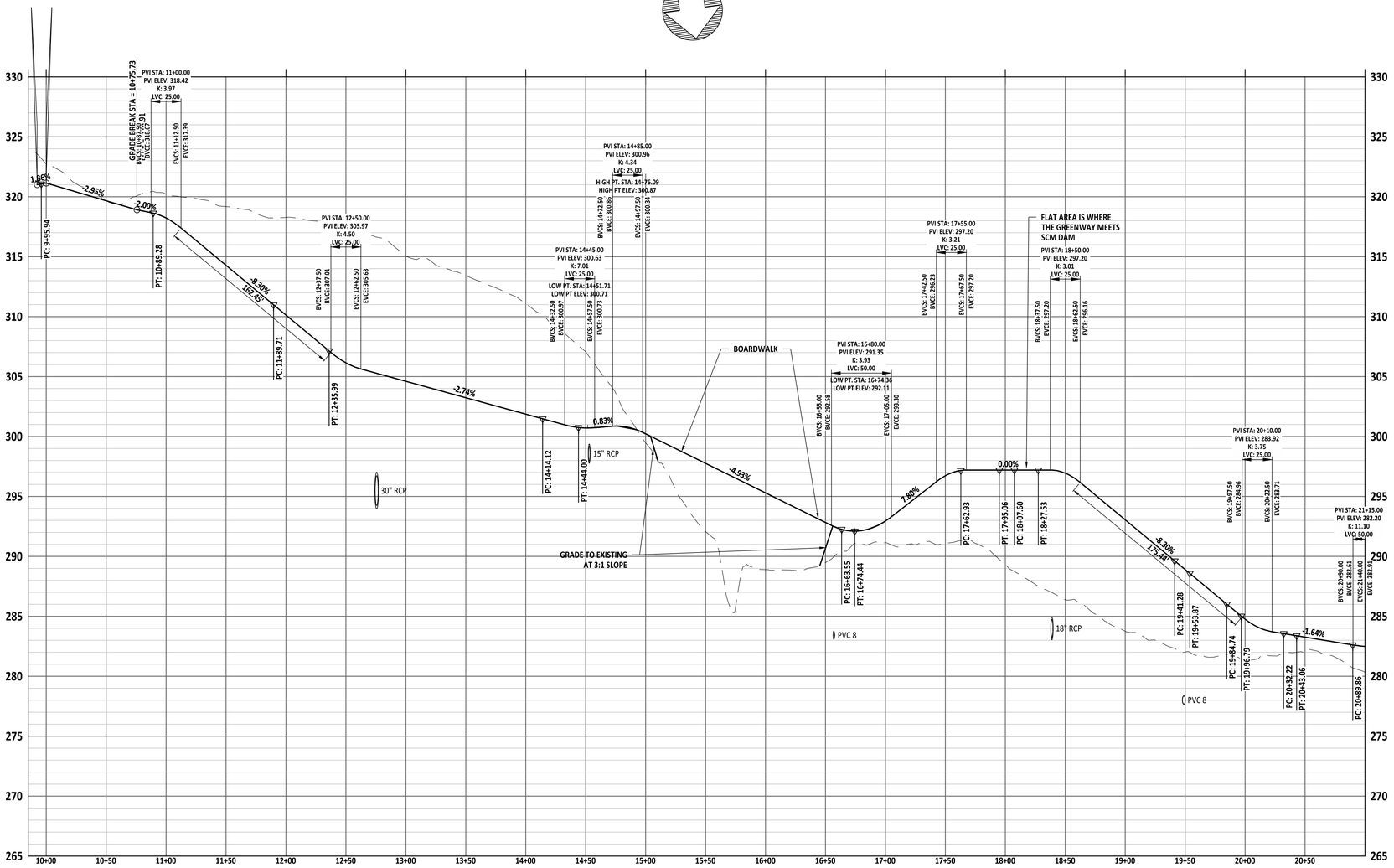
JOB NUMBER:	23-0004
CHECKED BY:	BH
DRAWN BY:	DH/RC/SM/GE/MA/LL/JB
DATE:	05/01/2025

SHEET TITLE:
SUTTON RIDGE ROAD PLAN & PROFILE

SHEET NO.:
CS-298

Z:\Jobs\23-0004 Merritt Property (BRP) (Neal)_ Working Dwgs\Sheets\Construction Set\48b_CS-298 SUTTON RIDGE ROAD PLAN & PROFILE.dwg
2025-07-02





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

Public
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City of Raleigh
Public Utilities Department Permit # _____

PROJECT NUMBER = CID-25-02

North Carolina 811
*** 3 Days Before Digging ***
North Carolina 811
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Remote Ticket Entry
http://nc811.org/remoteticketentry.htm

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

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

PRELIMINARY
PRELIMINARY
NOT FOR CONSTRUCTION
DO NOT USE FOR CONSTRUCTION
NORTH CAROLINA
REGISTERED
16528
ENGINEER
JAKOB P. KLEIN

FOR INFORMATION, ONLY

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

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MERRITT RESERVE
GREENWAY 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:
GREENWAY PLAN & PROFILE

SHEET NO.:
CS-300

Z:\Jobs\23-0004 Merritt Property (BRP)\Dwg_Working Dwgs\Sheets\Construction Set\44c_CS-300 GREENWAY PLAN & PROFILE.dwg
2025-07-02