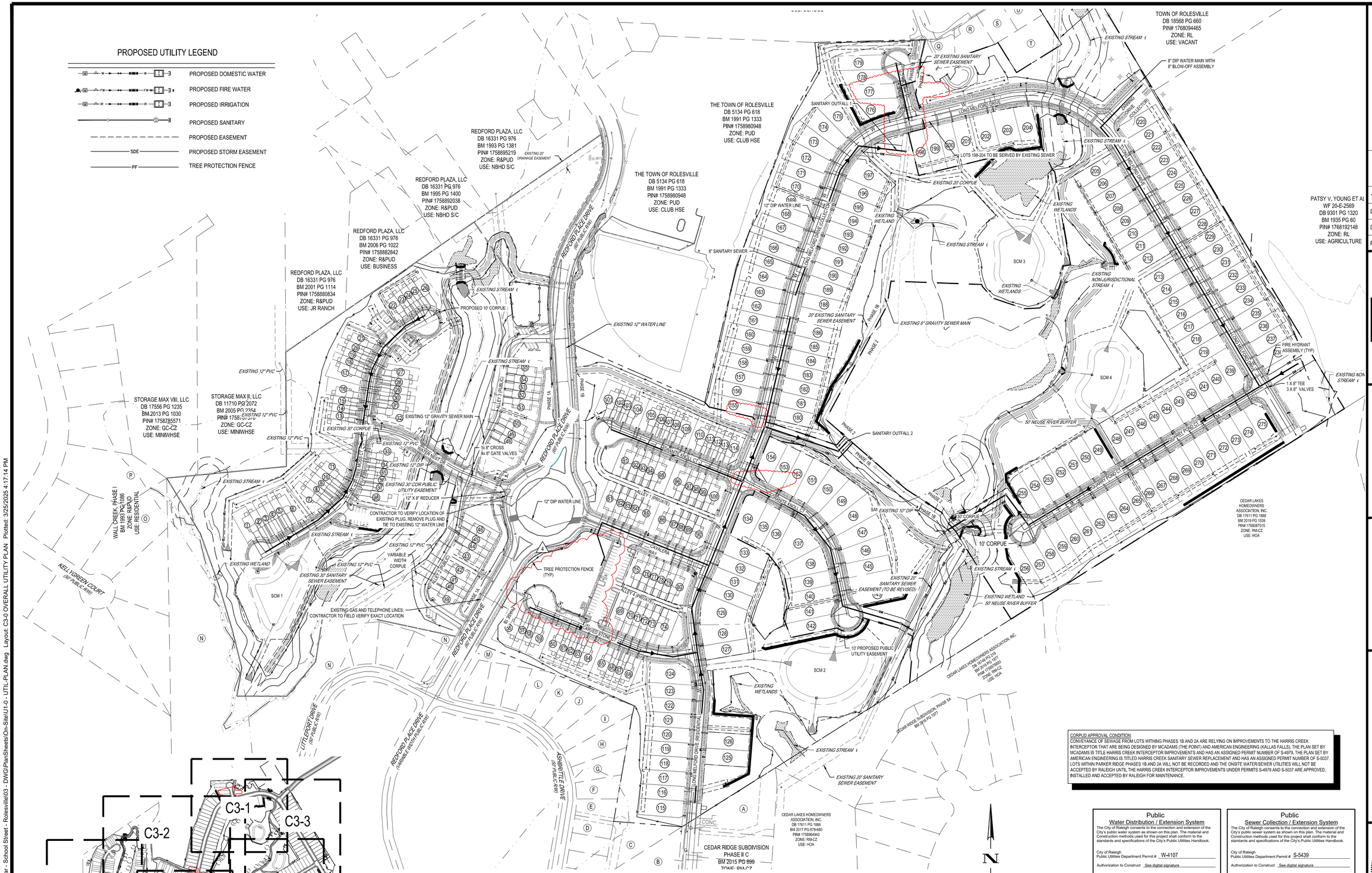
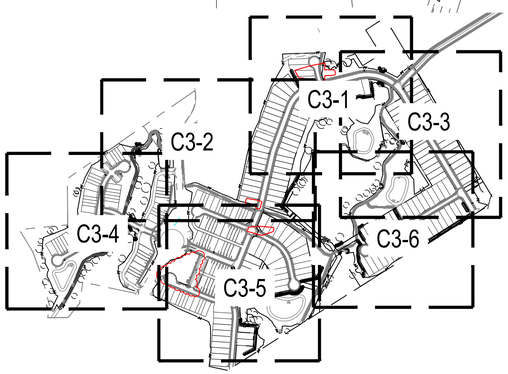
PROPOSED UTILITY LEGEND

- PROPOSED DOMESTIC WATER
- PROPOSED FIRE WATER
- PROPOSED IRRIGATION
- PROPOSED SANITARY
- PROPOSED EASEMENT
- SDE — PROPOSED STORM EASEMENT
- PF — TREE PROTECTION FENCE





CORPUD APPROVAL CONDITION:
CONVEYANCE OF SEWAGE FROM LOTS WITHING PHASES 1B AND 2A ARE RELYING ON IMPROVEMENTS TO THE HARRIS CREEK INTERCEPTOR THAT ARE BEING DESIGNED BY MCADAMS (THE POINT) AND AMERICAN ENGINEERING (KALLAS FALLS). THE PLAN SET BY MCADAMS IS TITLE HARRIS CREEK INTERCEPTOR IMPROVEMENTS AND HAS AN ASSIGNED PERMIT NUMBER OF S-4979. THE PLAN SET BY AMERICAN ENGINEERING IS TITLED HARRIS CREEK SANITARY SEWER REPLACEMENT AND HAS AN ASSIGNED PERMIT NUMBER OF S-5037. LOTS WITHIN PARKER RIDGE PHASES 1B AND 2A WILL NOT BE RECORDED AND THE ONSITE WATER/SEWER UTILITIES WILL NOT BE ACCEPTED BY RALEIGH UNTIL THE HARRIS CREEK INTERCEPTOR IMPROVEMENTS UNDER PERMITS S-4979 AND S-5037 ARE APPROVED, INSTALLED AND ACCEPTED BY RALEIGH FOR MAINTENANCE.

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

City of Raleigh
Public Utilities Department Permit # W-4107

Authorization to Construct See digital signature

Public
Sewer Collection / Extension System
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City of Raleigh
Public Utilities Department Permit # S-5439

Authorization to Construct See digital signature

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval _____

Raleigh Water Review Officer _____

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

REV	DATE	DESCRIPTION
5	03/24/2025	SUBPHASING, SEWER, & CURB TYPES
4	11/04/2024	AMENITY CENTER REVISIONS
3	06/05/2024	RETAINING WALL LOCATION REVISION
2	06/04/2024	STORM STRUCTURE REVISIONS
1	04/08/2024	EROSION CONTROL REVISION

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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OVERALL UTILITY PLAN

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERRI 3/25/25

FILE NUMBER: 8430-03
DATE: 3/24/2025
C3-0

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\U1-0 - UTIL-PLAN.dwg Layout: C3-0 OVERALL UTILITY PLAN Plotted: 3/25/2025 4:17:14 PM

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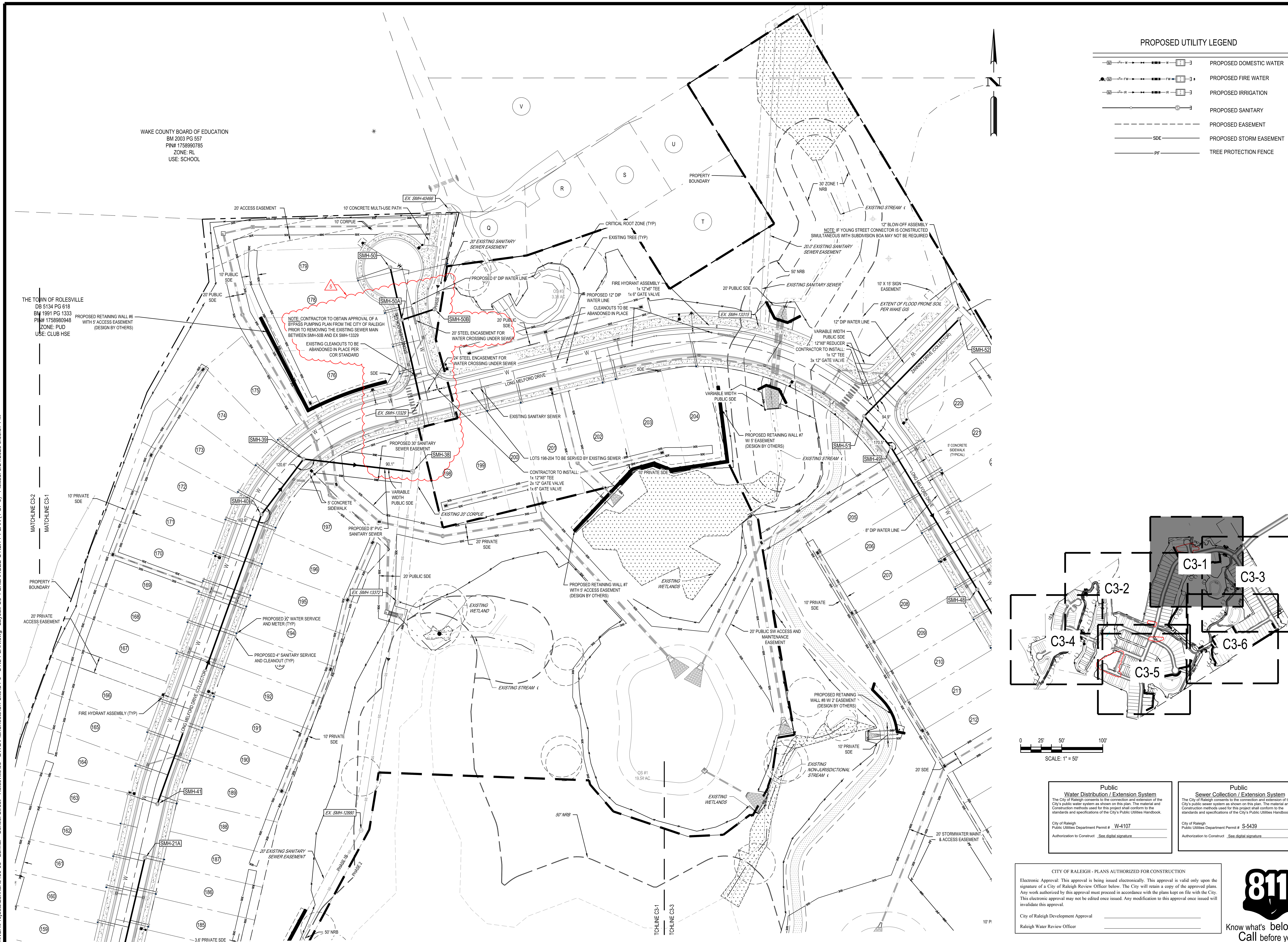

PROPOSED UTILITY LEGEND

W	PROPOSED DOMESTIC WATER
FW	PROPOSED FIRE WATER
IR	PROPOSED IRRIGATION
S	PROPOSED SANITARY
	PROPOSED EASEMENT
SDE	PROPOSED STORM EASEMENT
PF	TREE PROTECTION FENCE

0 25' 50' 100'

SCALE: 1" = 50'

Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # W-4107

Authorization to Construct See digital signature

Public
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City of Raleigh
Public Utilities Department Permit # S-5439

Authorization to Construct See digital signature

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City of Raleigh Development Approval ____________

Raleigh Water Review Officer ____________

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2	06/04/2024	STORM STRUCTURE REVISIONS
1	04/08/2024	EROSION CONTROL REVISION

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED UTILITY PLAN (1 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — DEBRA M. FERM
3/25/2025

FILE NUMBER: 8430-03
DATE: 3/24/2025
C3-1

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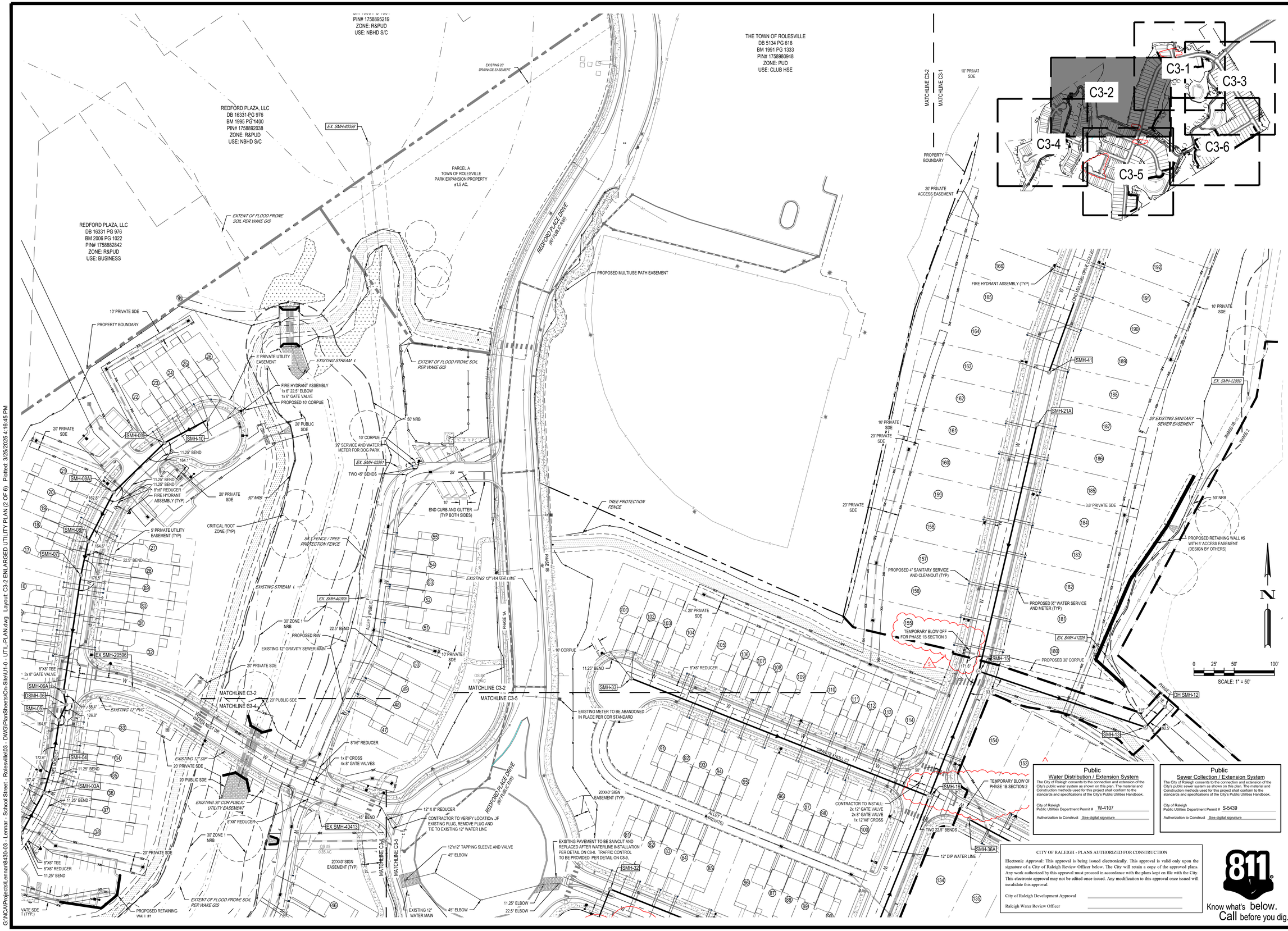

Public Water Distribution / Extension System

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City of Raleigh Public Utilities Department Permit # W-4107

Authorization to Construct See digital signature

Public Sewer Collection / Extension System

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City of Raleigh Public Utilities Department Permit # S-5439

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City of Raleigh Development Approval _____

Raleigh Water Review Officer _____

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4	06/04/2024	STORM STRUCTURE REVISIONS
5	04/08/2024	EROSION CONTROL REVISION

DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

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ENLARGED UTILITY PLAN (2 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERRELL 3/25/25

FILE NUMBER: 8430-03

DATE: 3/24/2025

C3-2

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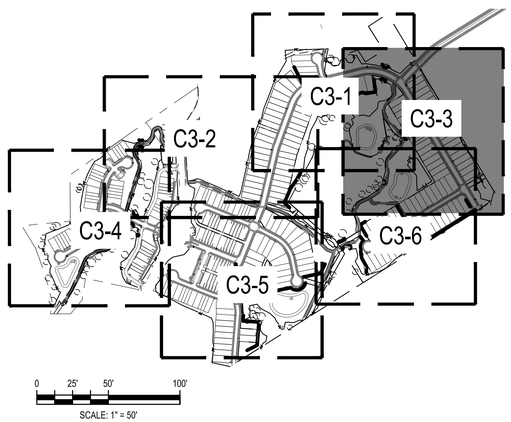
PROPOSED UTILITY LEGEND

- PROPOSED DOMESTIC WATER
- PROPOSED FIRE WATER
- PROPOSED IRRIGATION
- PROPOSED SANITARY
- PROPOSED EASEMENT
- PROPOSED STORM EASEMENT
- TREE PROTECTION FENCE



Public
Water Distribution / Extension System
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City of Raleigh
Public Utilities Department Permit # W-4107

Authorization to Construct See digital signature

Public
Sewer Collection / Extension System
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City of Raleigh
Public Utilities Department Permit # S-5439

Authorization to Construct See digital signature

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval

Raleigh Water Review Officer

Timothy Beasley

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REV	DATE	DESCRIPTION
4	02/14/2024	PER TOWN OF ROLESVILLE COMMENT
3	1/12/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
2	11/21/2023	PER TOWN OF ROLESVILLE COMMENT
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED UTILITY PLAN (3 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERRIS
DocuSigned by: Debbi Ferris 3/12/2024

FILE NUMBER: 8430-03
DATE: 03/04/2024
C3-3

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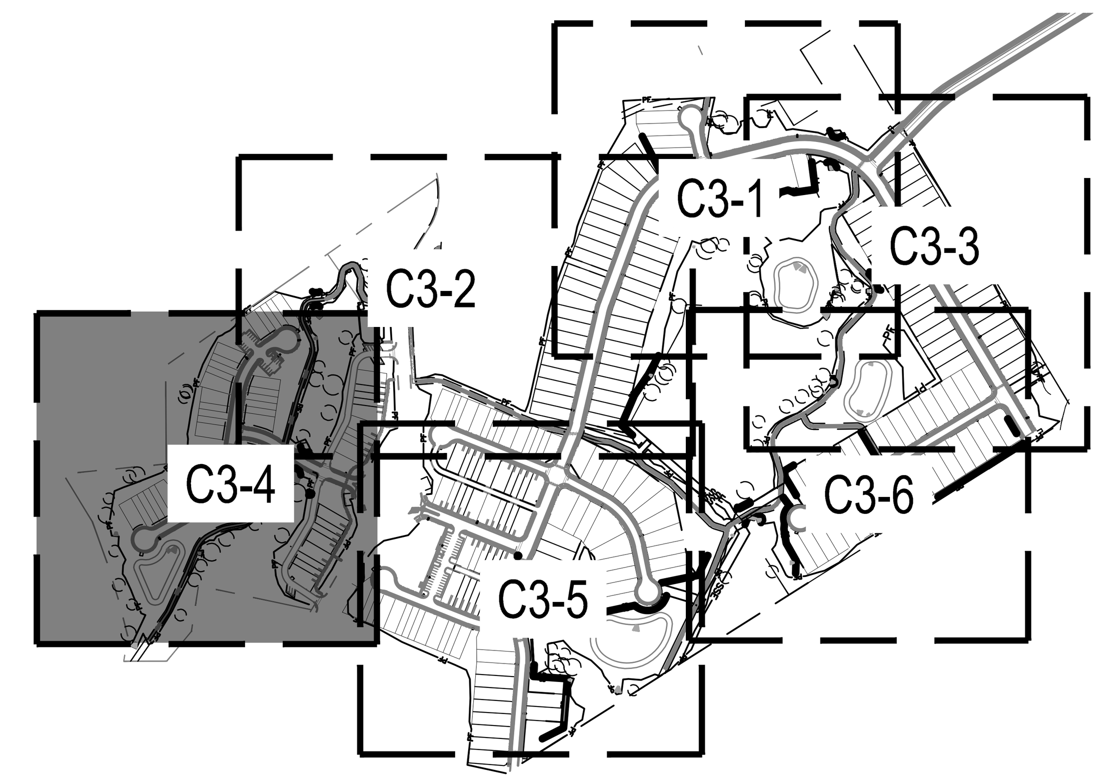
PROPOSED UTILITY LEGEND

- PROPOSED DOMESTIC WATER
- PROPOSED FIRE WATER
- PROPOSED IRRIGATION
- PROPOSED SANITARY
- PROPOSED EASEMENT
- PROPOSED STORM EASEMENT
- TREE PROTECTION FENCE

N



0 25' 50' 100'

SCALE: 1" = 50'

Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # W-4107

Authorization to Construct See digital signature

Public
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City of Raleigh
Public Utilities Department Permit # S-5439

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City of Raleigh Development Approval

Raleigh Water Review Officer Timothy Beasley

Digitally signed by Timothy Beasley DN: C=US, E=Timothy.Beasley@raleighnc.gov, O=City of Raleigh, OU=Raleigh Water, CN=Timothy Beasley Reason: I am approving this document. Date: 2024.03.22 08:10:16-04'00'

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

REV	DATE	DESCRIPTION
5	02/14/2024	PER TOWN OF ROLESVILLE COMMENT
4	1/12/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
3	11/21/2023	PER TOWN OF ROLESVILLE COMMENT
2	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
1	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

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ENLARGED UTILITY PLAN (4 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERM 3/12/2024

DocuSigned by: Debbi Ferm

FILE NUMBER: 8430-03

DATE: 03/04/2024

C3-4

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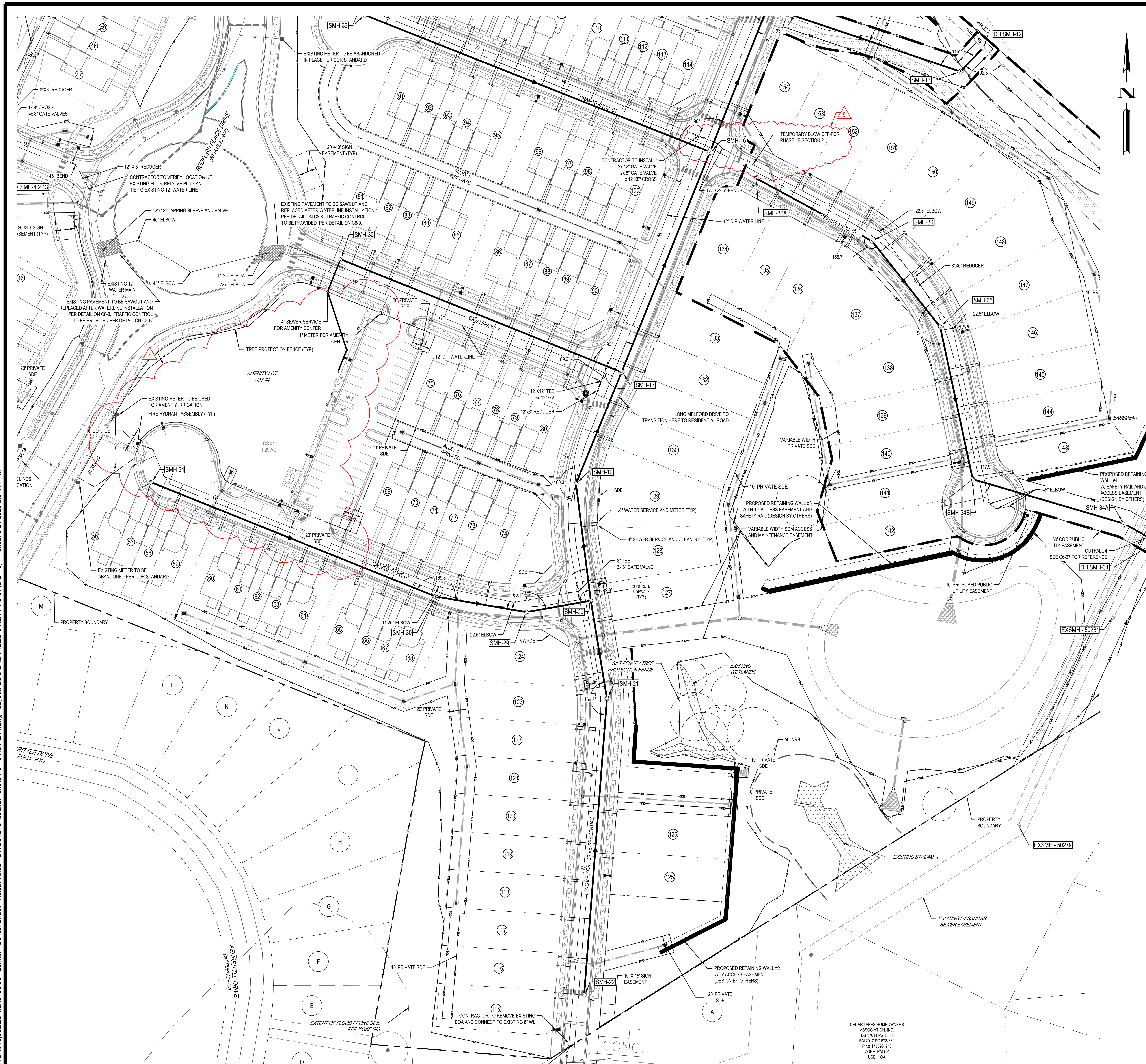
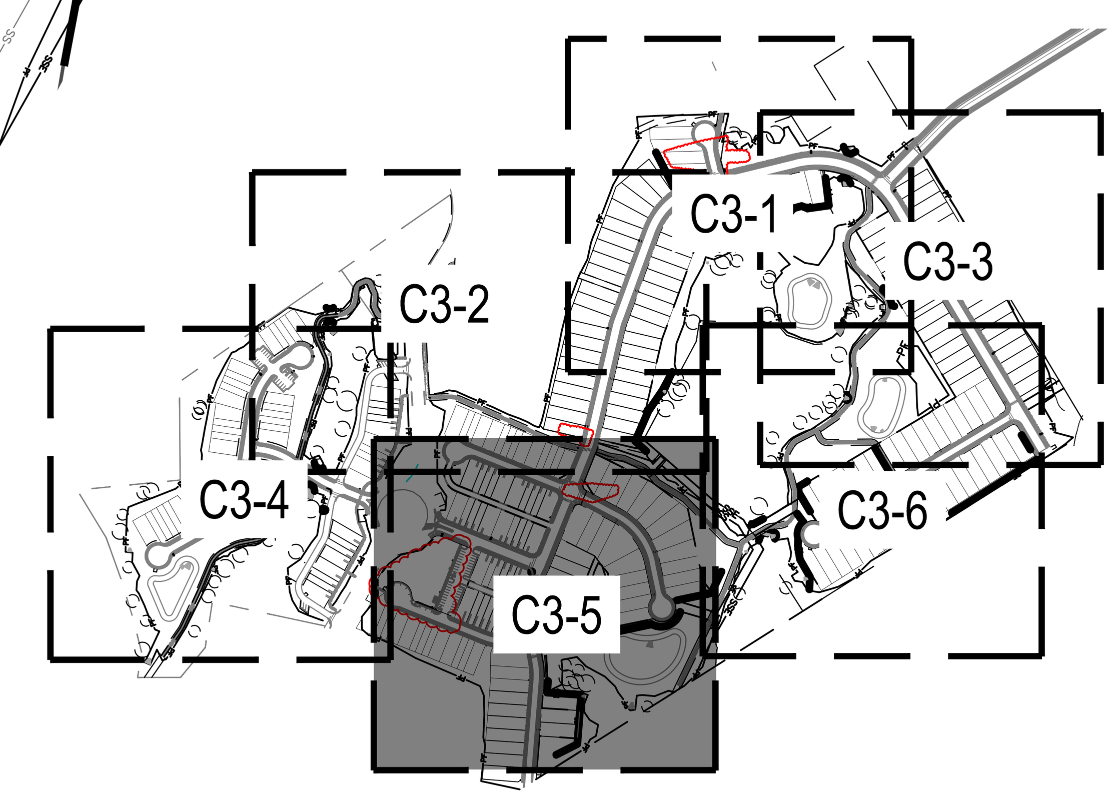


PROPOSED UTILITY LEGEND

- PROPOSED DOMESTIC WATER
- PROPOSED FIRE WATER
- PROPOSED IRRIGATION
- PROPOSED SANITARY
- PROPOSED EASEMENT
- PROPOSED STORM EASEMENT
- TREE PROTECTION FENCE



0 25' 50' 100'

SCALE: 1" = 50'

Public
Water Distribution / Extension System

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City of Raleigh
Public Utilities Department Permit # W-4107

Authorization to Construct See digital signature

Public
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City of Raleigh Development Approval ______________________

Raleigh Water Review Officer ______________________

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1	04/08/2024	EROSION CONTROL REVISION

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED UTILITY PLAN (5 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL DEBRA M. FERM
3/25/2025

FILE NUMBER: 8430-03
DATE: 3/24/2025

C3-5

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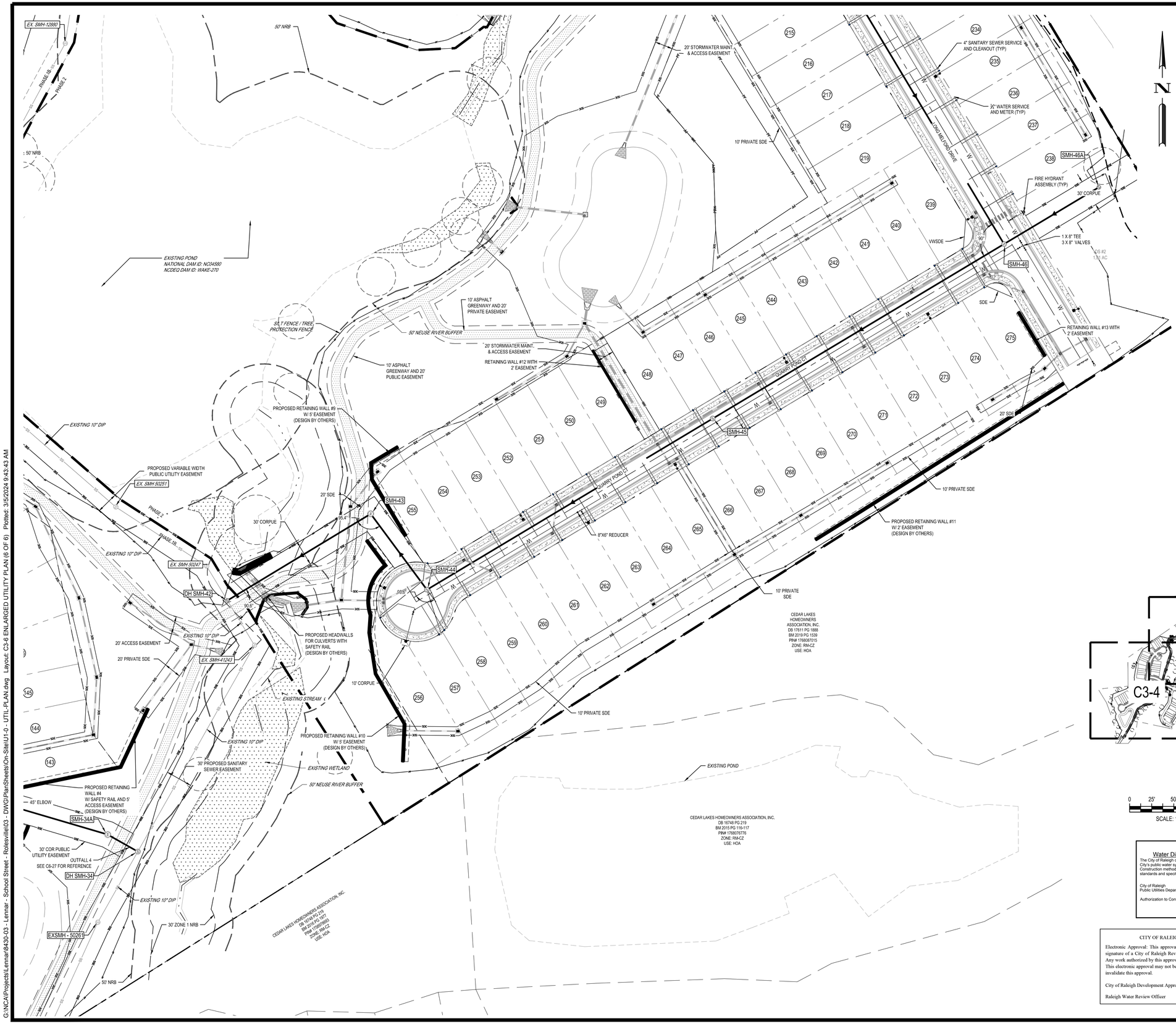
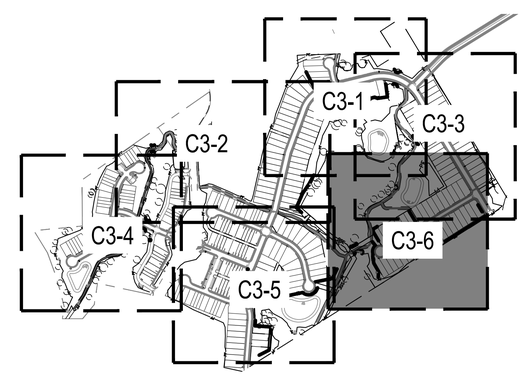


PROPOSED UTILITY LEGEND

- PROPOSED DOMESTIC WATER
- PROPOSED FIRE WATER
- PROPOSED IRRIGATION
- PROPOSED SANITARY
- PROPOSED EASEMENT
- PROPOSED STORM EASEMENT
- TREE PROTECTION FENCE



0 25' 50' 100'

SCALE: 1" = 50'

Public
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City of Raleigh
Public Utilities Department Permit # W-4107

Authorization to Construct See digital signature

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City of Raleigh Development Approval

Raleigh Water Review Officer

Timothy Beasley

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	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED UTILITY PLAN (6 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERM

DocuSigned by: Debbi Ferm 3/12/2024

FILE NUMBER: 8430-03

DATE: 03/04/2024

C3-6

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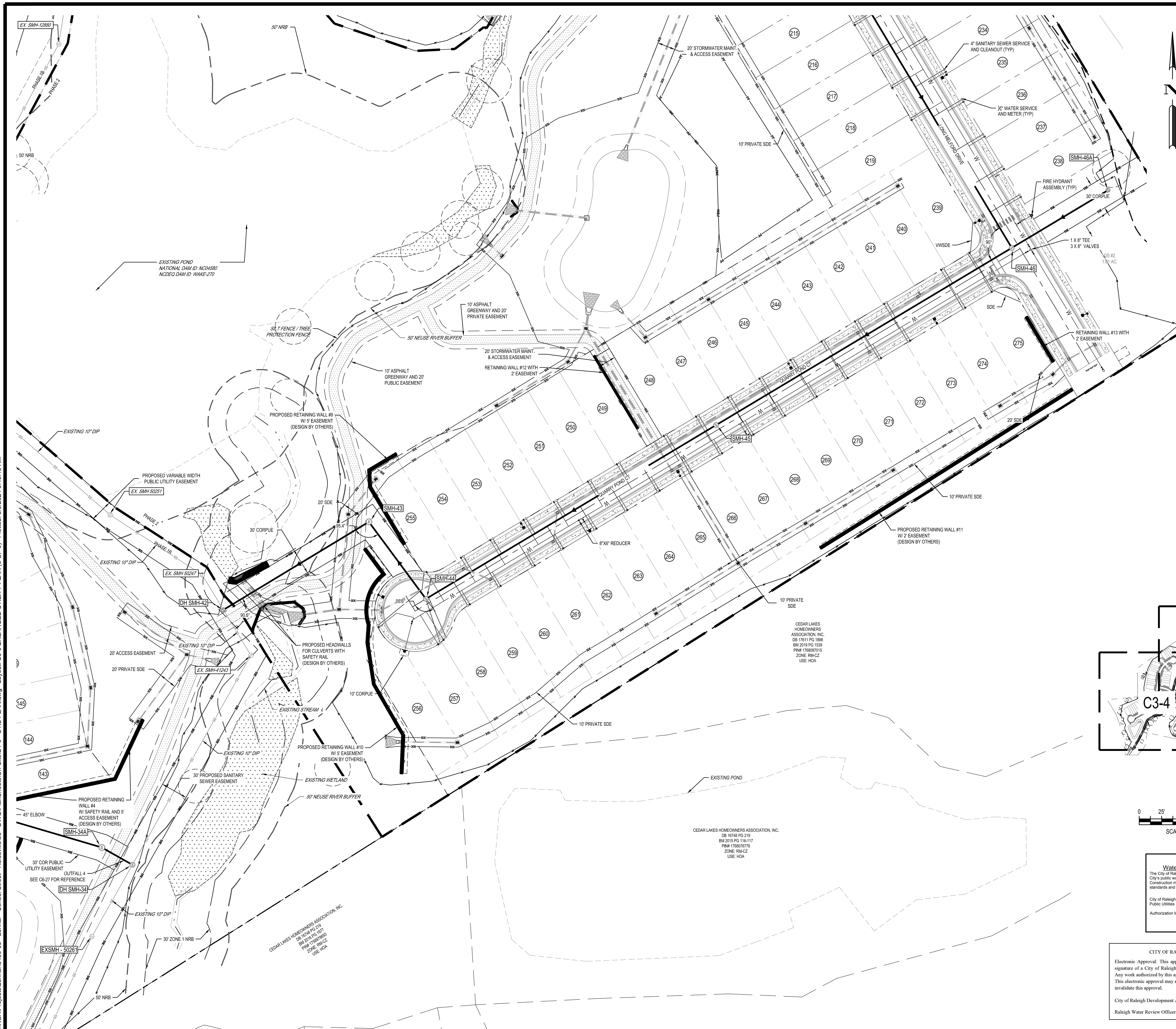
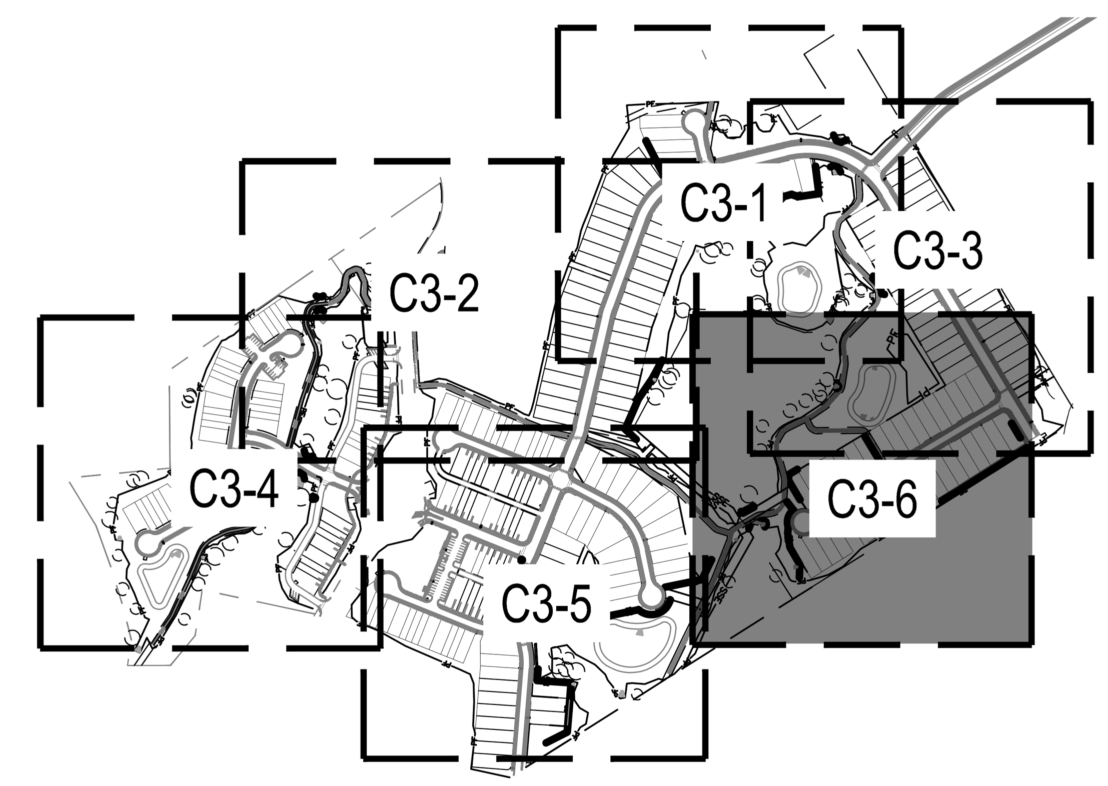


PROPOSED UTILITY LEGEND

- PROPOSED DOMESTIC WATER
- PROPOSED FIRE WATER
- PROPOSED IRRIGATION
- PROPOSED SANITARY
- PROPOSED EASEMENT
- PROPOSED STORM EASEMENT
- TREE PROTECTION FENCE



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SCALE: 1" = 50'

Public Water Distribution / Extension System
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City of Raleigh Public Utilities Department Permit # W-4107
Authorization to Construct See digital signature

Public Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh Public Utilities Department Permit # S-5439
Authorization to Construct See digital signature

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval

Raleigh Water Review Officer Timothy Beasley

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

REV	DATE	DESCRIPTION
5	02/14/2024	PER TOWN OF ROLESVILLE COMMENT
4	1/12/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
3	11/21/2023	PER TOWN OF ROLESVILLE COMMENT
2	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
1	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

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PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED UTILITY PLAN (6 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERM

DocuSigned by: Debbi Ferm 3/12/2024

FILE NUMBER: 8430-03

DATE: 03/04/2024

C3-6

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\U1-0 - UTIL-PLAN.dwg Layout: C3-6 ENLARGED UTILITY PLAN (6 OF 6) Plotted: 3/5/2024 9:43:43 AM

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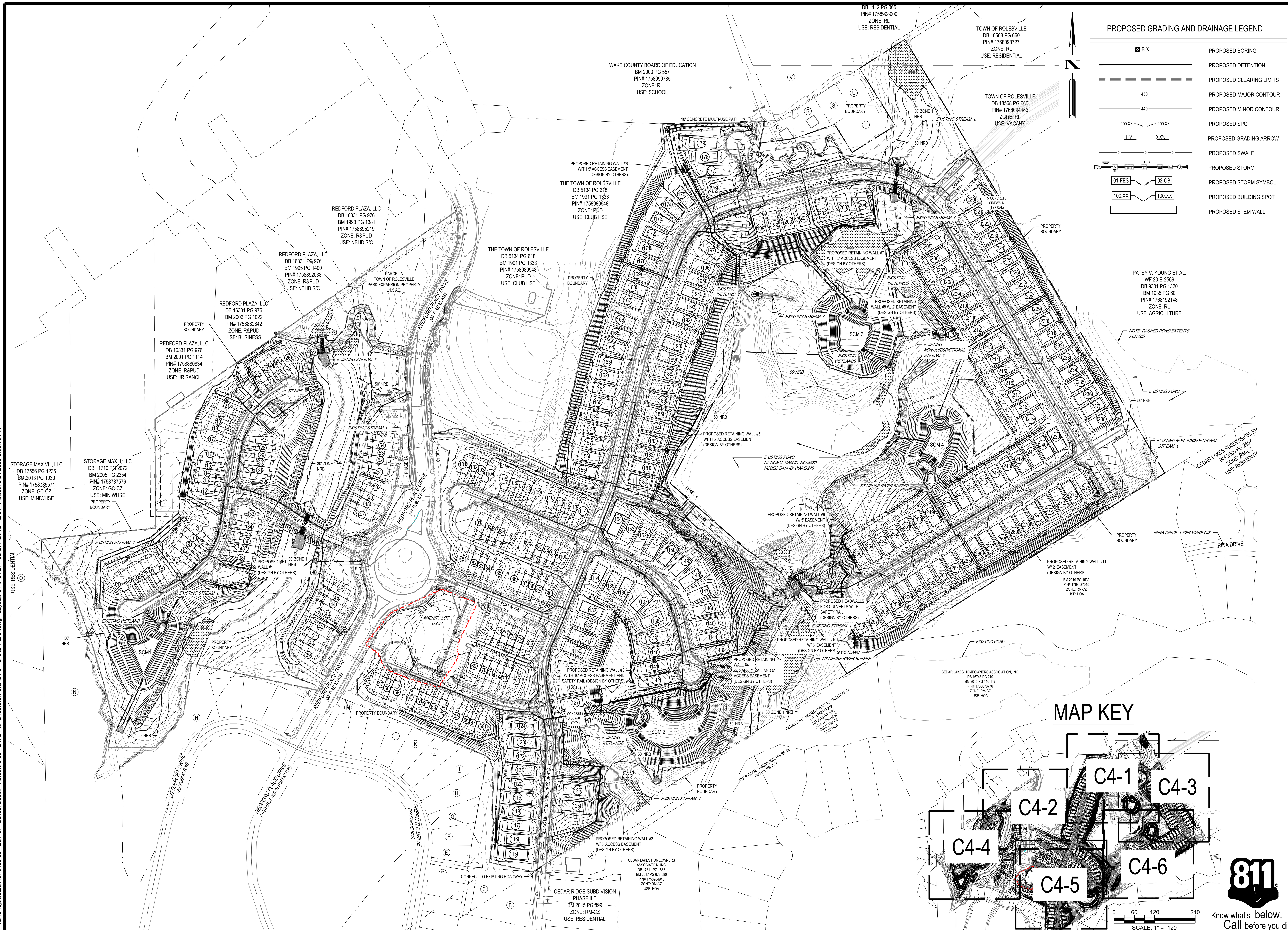

REV	DATE	DESCRIPTION
5	03/24/2025	SUBPHASING, SEWER, & CURB TYPES
4	11/04/2024	AMENITY CENTER REVISIONS
3	06/06/2024	RETAINING WALL LOCATION REVISION
2	06/04/2024	STORM STRUCTURE REVISIONS
1	04/08/2024	EROSION CONTROL REVISION

DESIGNED BY: DF/CD

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OVERALL GRADING PLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028892 DEBRA M. FERM
Signed by: Debra Ferm
3/25/2025

FILE NUMBER: 8430-03

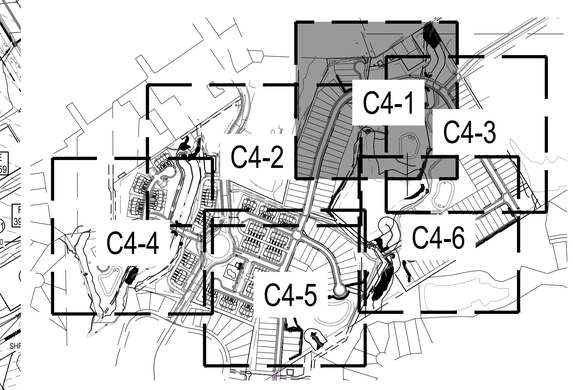
DATE: 3/24/2025

C4-0

DocuSign Envelope ID: 52B3EBBF-F3B1-405A-A0C7-DC84AA93021B

PROPOSED GRADING AND DRAINAGE LEGEND

B-X	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
450	PROPOSED MAJOR CONTOUR
449	PROPOSED MINOR CONTOUR
100.XX 100.XX	PROPOSED SPOT
H V X.X%	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
01-FES 02-CB	PROPOSED STORM SYMBOL
100.XX 100.XX	PROPOSED BUILDING SPOT
	PROPOSED STEM WALL
FPE	FINISHED PAD ELEVATION



0 25' 50' 100'
SCALE: 1" = 50'

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

REV	DATE	DESCRIPTION
1	02/14/2024	PER TOWN OF ROLESVILLE COMMENT
2	1/12/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
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5	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED GRADING PLAN (1 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERN
DocuSigned by: Debbi Fern 3/12/2024

FILE NUMBER: 8430-03
DATE: 03/04/2024
C4-1

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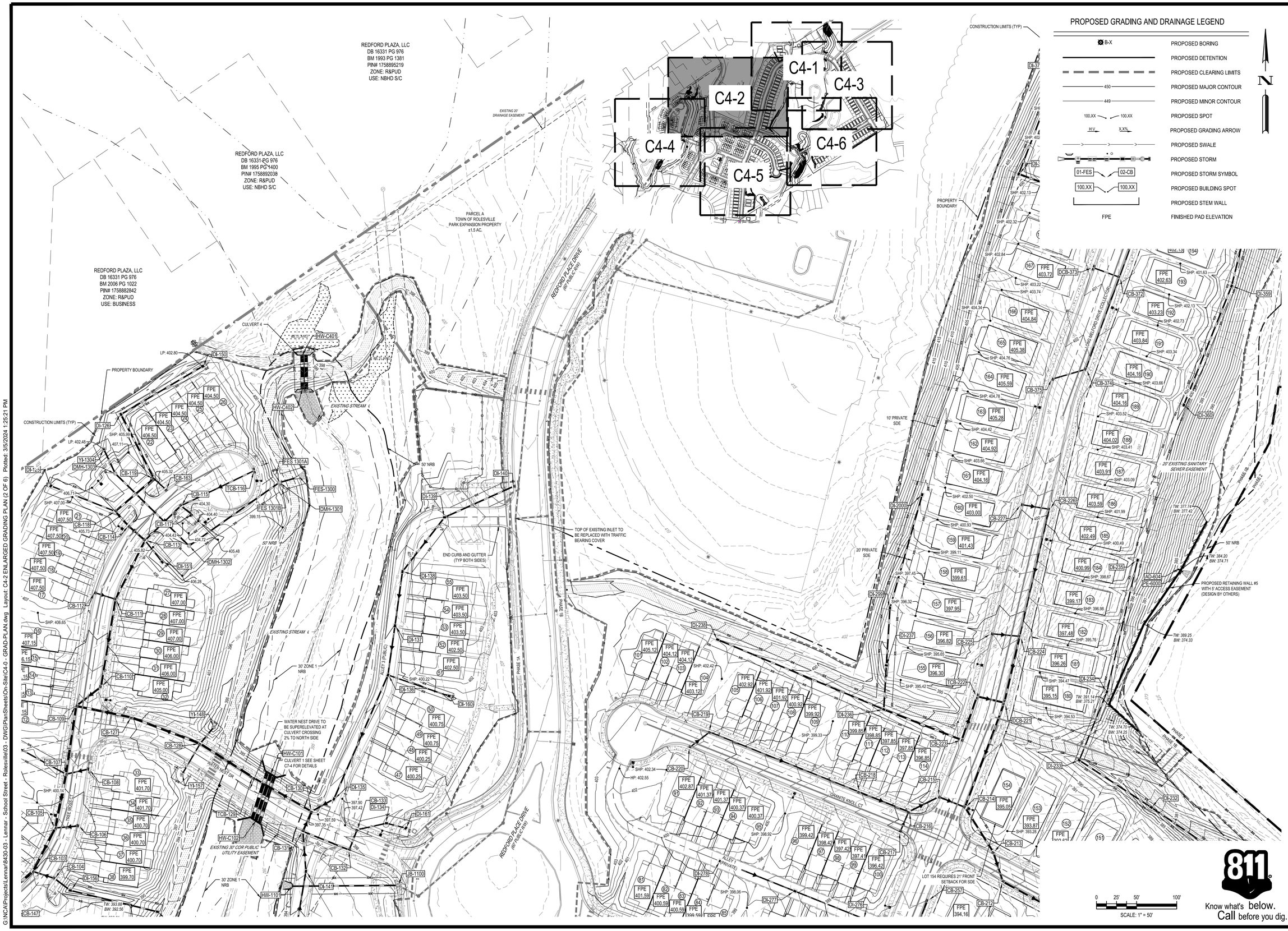

REV	DATE	DESCRIPTION
4	02/14/2024	PER TOWN OF ROLESVILLE COMMENT
3	1/12/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
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1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
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ENLARGED GRADING PLAN (2 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERN
DocuSigned by: Debra Fern 3/12/2024

FILE NUMBER: 8430-03
DATE: 03/04/2024
C4-2

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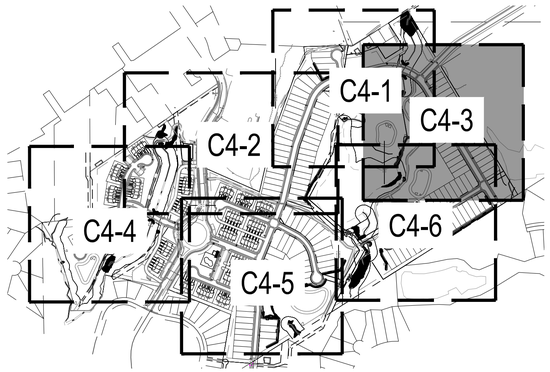
DocuSign Envelope ID: 52B3EBBF-F3B1-405A-A0C7-DC64AA93021B

PROPOSED GRADING AND DRAINAGE LEGEND

B-X	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
450	PROPOSED MAJOR CONTOUR
449	PROPOSED MINOR CONTOUR
100.XX 100.XX	PROPOSED SPOT
H.V X.X%	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
01-FES 02-CB	PROPOSED STORM SYMBOL
100.XX 100.XX	PROPOSED BUILDING SPOT
	PROPOSED STEM WALL



0 25' 50' 100'
SCALE: 1" = 50'

Know what's below. Call before you dig.

REV	DATE	DESCRIPTION
1	02/14/2024	PER TOWN OF ROLESVILLE COMMENT
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REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
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ENLARGED GRADING PLAN (3 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERN
DocuSigned by: Debbi Fern 3/12/2024

FILE NUMBER: 8430-03
DATE: 03/04/2024
C4-3

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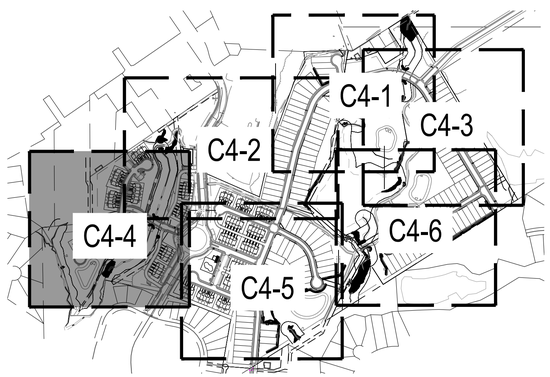
PROPOSED GRADING AND DRAINAGE LEGEND

B-X	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
450	PROPOSED MAJOR CONTOUR
449	PROPOSED MINOR CONTOUR
100.XX 100.XX	PROPOSED SPOT
H:V X.X%	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
01-FES 02-CB	PROPOSED STORM SYMBOL
100.XX 100.XX	PROPOSED BUILDING SPOT
	PROPOSED STEM WALL



0 25' 50' 100'
SCALE: 1" = 50'

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1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
1	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED GRADING PLAN (4 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERM
DocuSigned by: Debbi Ferm 3/12/2024

FILE NUMBER: 8430-03
DATE: 03/04/2024
C4-4

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C4-0 - GRAD-PLAN.dwg Layout: C4-4 ENLARGED GRADING PLAN (4 OF 6) Plotted: 3/5/2024 1:25:50 PM

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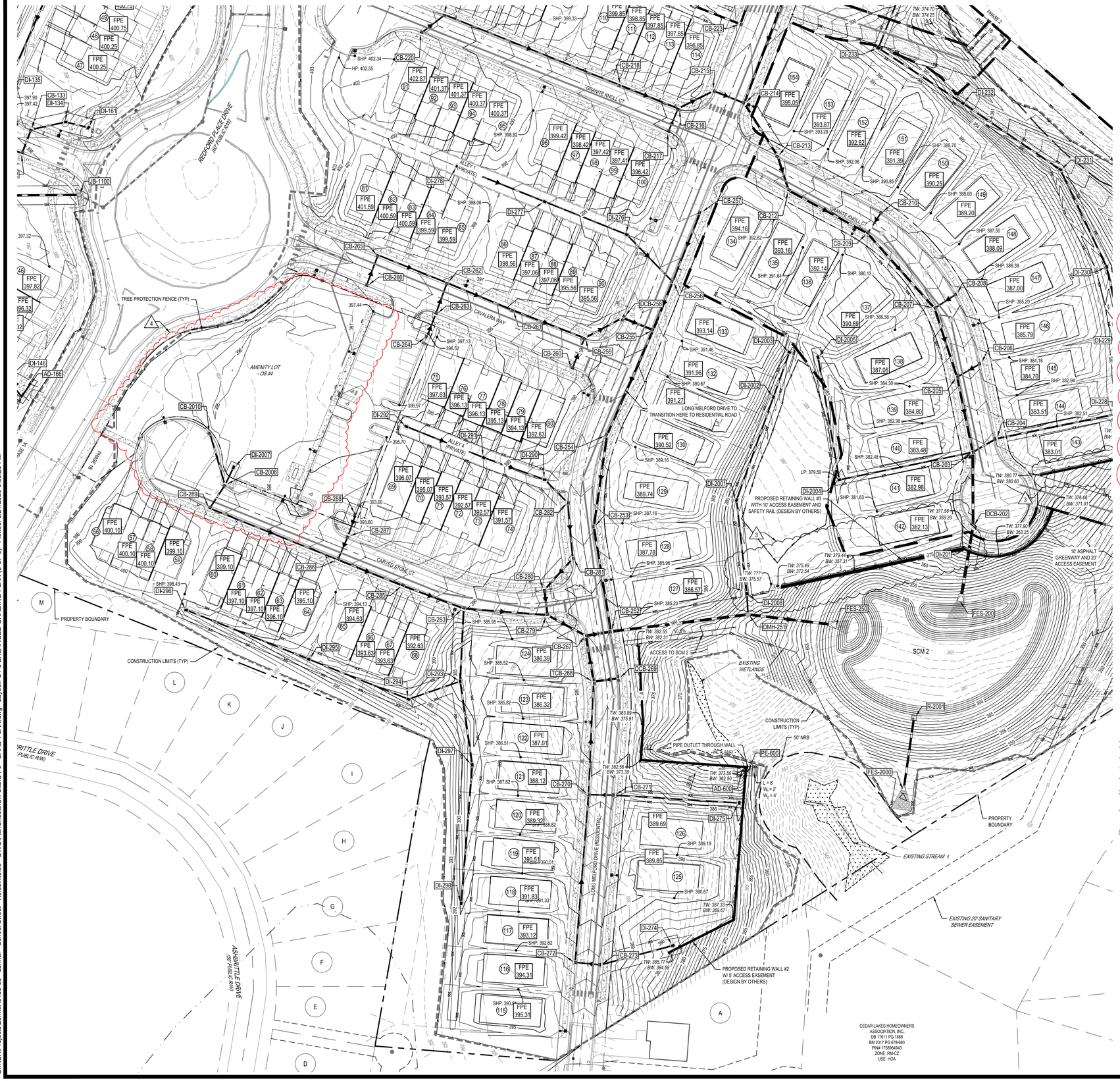
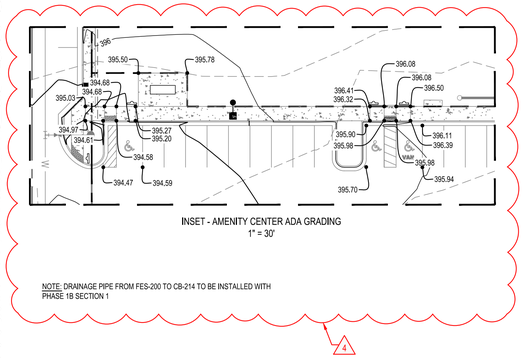


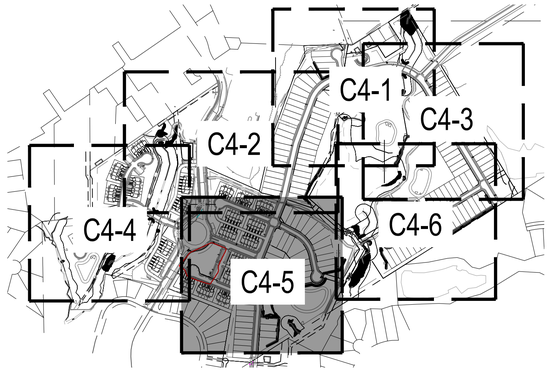
PROPOSED GRADING AND DRAINAGE LEGEND

B-X	PROPOSED BORING
	PROPOSED DETENTION
	PROPOSED CLEARING LIMITS
450	PROPOSED MAJOR CONTOUR
449	PROPOSED MINOR CONTOUR
100.XX 100.XX	PROPOSED SPOT
H:V X.X%	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
01-FES 02-CB	PROPOSED STORM SYMBOL
100.XX 100.XX	PROPOSED BUILDING SPOT
	PROPOSED STEM WALL
FPE	FINISHED PAD ELEVATION



INSET - AMENITY CENTER ADA GRADING
1" = 30'

NOTE: DRAINAGE PIPE FROM FES-200 TO CB-214 TO BE INSTALLED WITH PHASE 1B SECTION 1



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1	04/08/2024	EROSION CONTROL REVISION

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED GRADING PLAN (5 OF 6)

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
DEBRA M. FERRY
3/25/2025

FILE NUMBER: 8430-03
DATE: 3/24/2025
C4-5

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PROPOSED GRADING AND DRAINAGE LEGEND

B-X	PROPOSED BORING
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	PROPOSED CLEARING LIMITS
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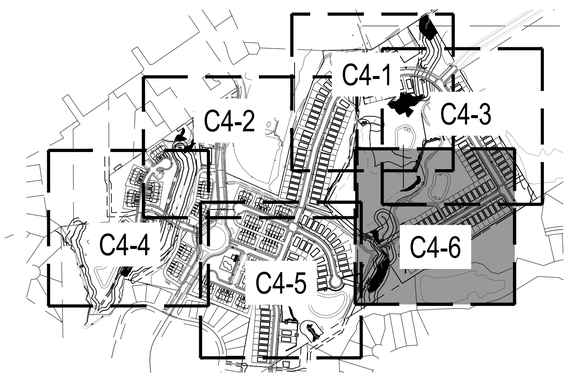
449	PROPOSED MINOR CONTOUR
100.XX 100.XX	PROPOSED SPOT
H.V X.X%	PROPOSED GRADING ARROW
	PROPOSED SWALE
	PROPOSED STORM
01-FES 02-CB	PROPOSED STORM SYMBOL
100.XX 100.XX	PROPOSED BUILDING SPOT
	PROPOSED STEM WALL



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REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
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ENLARGED GRADING PLAN (6 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERN

DocuSigned by: Debra Fern 3/12/2024

FILE NUMBER: 8430-03

DATE: 03/04/2024

C4-6

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SCM 1

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
AD-165	394.70	15"	391.40 (NE)	391.20 (NW)	15"	DI-146
AD-166	394.67			391.57 (SW)	15"	AD-165
CB-101	395.83	36" 18"	383.10 (NW) 385.73 (NE)	383.00 (SW)	36"	FES-100
CB-103	397.43	30" 18"	384.11 (NE) 385.28 (E)	384.01 (SW)	36"	DCB-102
CB-104	397.62	18"	385.52 (SE)	385.42 (W)	18"	CB-103
CB-105	398.98	18" 30"	392.36 (E) 384.51 (N)	384.41 (SW)	30"	CB-103
CB-106	399.33			392.50 (W)	18"	CB-105
CB-107	400.83	18" 30" 15"	391.93 (E) 384.95 (N) 390.94 (NW)	384.85 (S)	30"	CB-105
CB-108	401.10			392.50 (W)	18"	CB-107
CB-109	402.99	24" 30"	386.18 (NE) 385.68 (E)	385.48 (S)	30"	CB-107
CB-110	403.70	24"	389.01 (N)	386.38 (SW)	24"	CB-109
CB-111	405.97	24" 15"	389.76 (NE) 400.04 (W)	389.66 (S)	24"	CB-110
CB-112	405.99			400.55 (E)	15"	CB-111
CB-113	405.45	24" 18" 15"	390.42 (NW) 393.77 (NE) 399.13 (SE)	390.22 (SW)	24"	CB-111
CB-114	405.45	24"	392.16 (NW)	390.56 (SE)	24"	CB-113
CB-115	404.55	18" 15"	399.45 (SE) 396.48 (NE)	394.22 (SW)	18"	CB-113
CB-117	404.75			399.56 (NW)	18"	CB-115
CB-118	406.13	15" 24"	398.03 (W) 392.48 (NE)	392.28 (SE)	24"	CB-114
CB-119	405.40	24" 15"	398.06 (NW) 399.60 (SE)	392.86 (SW)	24"	CB-118
CB-127	400.50	30"	386.13 (E)	386.03 (W)	30"	CB-109
CB-128	397.85	30" 15" 18"	386.69 (SE) 390.00 (SW) 388.25 (NE)	386.59 (W)	30"	CB-127
CB-130	397.69	24" 18"	387.80 (SW) 389.50 (NE)	387.60 (NW)	24"	TCB-129
CB-131	398.13	18" 18"	388.04 (S) 388.44 (E)	387.94 (NE)	24"	CB-130

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-132	398.20	18"	390.73 (N)	390.53 (W)	18"	CB-131
CB-133	398.32	15"	391.20 (E)	391.00 (S)	18"	CB-132
CB-140	404.25			393.55 (SW)	18"	DI-139
CB-147	396.08	18"	387.38 (E)	387.18 (SW)	18"	CB-101
CB-153	396.67	18"	385.20 (SW)	385.00 (SE)	18"	FES-152
CB-153A	396.35			388.00 (NE)	18"	CB-153
CB-154	394.31	18"	388.00 (E)	387.80 (W)	18"	CB-147
CB-155	393.43			388.41 (W)	18"	CB-154
CB-163	404.63			399.88 (NW)	15"	CB-119
CB-164	396.22			391.47 (NE)	15"	DCB-102
DCB-102	395.83	36" 18" 15"	383.44 (NE) 385.77 (NW) 390.16 (SW)	383.24 (SE)	36"	CB-101
DDI-143	393.41	15" 15"	389.45 (SW) 389.56 (SE)	389.35 (NE)	18"	DI-142
DI-120	394.64	15" 18"	386.64 (SW) 386.64 (NE)	386.44 (SE)	18"	DCB-102
DI-121	394.97			387.53 (NE)	15"	DI-120
DI-122	389.71			386.50 (W)	18"	DI-156
DI-123	402.15	15"	391.77 (N)	391.57 (SE)	15"	CB-107
DI-124	404.23			395.04 (S)	15"	DI-123
DI-125	405.16			399.44 (E)	15"	CB-118
DI-126	403.10	18"	398.71 (NE)	398.51 (SE)	24"	CB-119
DI-134	397.76	15"	392.14 (E)	391.94 (W)	15"	CB-133
DI-135	397.67	18"	389.87 (NE)	389.77 (SW)	18"	CB-130
DI-136	399.36	18" 15"	391.00 (N) 391.00 (E)	390.80 (SW)	18"	DI-135
DI-137	399.98	18"	391.87 (N)	391.77 (S)	18"	DI-136

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
DI-138	400.66	18"	392.55 (NE)	392.45 (S)	18"	DI-137
DI-139	401.93	18"	393.08 (NE)	392.98 (SW)	18"	DI-138
DI-141	396.32	18"	388.39 (S)	388.29 (N)	18"	CB-131
DI-142	394.25	18"	388.92 (SW)	388.82 (N)	18"	DI-141
DI-144	394.20	15"	390.08 (S)	389.98 (NE)	15"	DDI-143
DI-145	394.60			390.61 (N)	15"	DI-144
DI-146	394.59	15"	390.95 (SE)	390.85 (NW)	15"	DDI-143
DI-150	402.80			399.30 (SW)	18"	DI-126
DI-151	404.38			400.13 (NW)	15"	CB-113
DI-156	393.38	18"	385.94 (E)	385.74 (NW)	18"	CB-104
DI-158	397.22			389.00 (SW)	18"	DI-120
DI-160	399.84			394.41 (W)	15"	DI-136
DI-161	396.96			392.64 (W)	15"	DI-134
FES-100	386.27	36"	382.44 (NE)			
FES-152	386.71	18"	384.50 (NW)			
FES-1000	380.98	24"	378.23 (NE)			
R-1001	387.90			379.00 (SW)	24"	FES-1000
TCB-116	402.70			397.75 (SW)	15"	CB-115
TCB-129	397.10	24"	387.18 (SE)	387.08 (NW)	30"	CB-128
YI-148	393.44			388.75 (SW)	18"	CB-128
YI-157	396.90			392.35 (NE)	15"	CB-128

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-101 TO CB-147	18"	47.80'	3.04%	18" RCP
CB-101 TO TCB-102	36"	27.02'	0.50%	36" RCP
CB-103 TO CB-104	18"	28.22'	0.50%	18" RCP
CB-103 TO CB-105	30"	60.86'	0.50%	30" RCP
CB-104 TO DI-156	18"	24.75'	0.89%	18" RCP
CB-105 TO CB-106	18"	28.91'	0.50%	18" RCP
CB-105 TO CB-107	30"	68.34'	0.50%	30" RCP
CB-107 TO CB-108	18"	28.99'	1.95%	18" RCP
CB-107 TO CB-109	30"	85.91'	0.62%	30" RCP
CB-107 TO DI-123	15"	116.76'	0.54%	15" RCP
CB-109 TO CB-110	24"	39.10'	0.50%	24" RCP
CB-109 TO CB-127	30"	70.28'	0.50%	30" RCP
CB-110 TO CB-111	24"	110.53'	0.59%	24" RCP
CB-111 TO CB-112	15"	27.01'	1.88%	15" RCP
CB-111 TO CB-113	24"	82.07'	0.56%	24" RCP
CB-113 TO CB-114	24"	27.05'	0.50%	24" RCP
CB-113 TO CB-115	18"	62.12'	0.72%	18" RCP
CB-113 TO DI-151	15"	34.44'	2.92%	15" RCP
CB-114 TO CB-118	24"	24.76'	0.50%	24" RCP
CB-115 TO CB-117	18"	17.58'	0.66%	18" RCP

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-115 TO DCB-116	15"	101.81'	1.25%	15" RCP
CB-118 TO CB-119	24"	63.17'	0.60%	24" RCP
CB-118 TO DI-125	15"	86.36'	1.63%	15" RCP
CB-119 TO DI-126	24"	89.76'	0.50%	24" RCP
CB-127 TO CB-128	30"	91.63'	0.50%	30" RCP
CB-128 TO DCB-129	30"	77.54'	0.50%	30" RCP
CB-128 TO YI-148	18"	27.21'	1.84%	18" RCP
CB-128 TO YI-157	15"	44.84'	5.24%	15" RCP
CB-130 TO CB-131	24"	27.01'	0.50%	24" RCP
CB-130 TO DI-135	18"	31.87'	0.85%	18" RCP
CB-131 TO CB-132	18"	62.17'	3.36%	18" RCP
CB-131 TO DI-141	18"	49.93'	0.50%	18" RCP
CB-132 TO CB-133	18"	27.00'	1.00%	18" RCP
CB-133 TO DI-134	15"	37.54'	1.98%	15" RCP
CB-147 TO CB-154	18"	80.81'	0.52%	18" RCP
CB-153 TO CB-153A	18"	70.42'	3.98%	18" RCP
CB-154 TO CB-155	18"	60.52'	0.68%	18" RCP
DCB-129 TO CB-130	24"	84.94'	0.50%	24" RCP
DDI-143 TO DI-144	15"	105.80'	0.50%	15" RCP
DDI-143 TO DI-146	15"	102.20'	1.26%	15" RCP

SCM 2

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-203	380.72	24" 18" 15"	371.00 (N) 365.54 (NE) 374.84 (W)	364.54 (S)	30"	DCB-202
CB-204	381.20	18"	365.92 (E)	365.82 (SW)	18"	CB-203
CB-205	383.25	24" 15"	375.27 (N) 379.07 (NE)	375.17 (S)	24"	CB-203
CB-206	383.54			379.50 (SW)	15"	CB-205
CB-207	385.65	24" 15"	378.70 (NW) 380.78 (NE)	378.60 (S)	24"	CB-205
CB-208	385.72			380.92 (SW)	15"	CB-207
CB-209	389.00	24" 15"	382.66 (NW) 383.51 (NE)	382.46 (SE)	24"	CB-207
CB-210	389.01			383.81 (SW)	15"	CB-209
CB-212	391.83	24"	385.14 (N)	385.04 (SE)	24"	CB-209
CB-213	392.64	24"	385.63 (NW)	385.53 (S)	24"	CB-212
CB-214	394.54	18" 24"	387.30 (W) 386.75 (N)	386.55 (SE)	24"	CB-213
CB-215	394.55	18"	389.80 (SW)	387.70 (E)	18"	CB-214
CB-216	395.25	18" 15"	391.00 (W) 391.00 (SW)	390.80 (NE)	18"	CB-215
CB-217	395.26			391.17 (NE)	15"	CB-216
CB-218	396.49	15"	392.37 (W)	392.12 (E)	18"	CB-216
CB-219	401.08	15"	396.24 (SW)	396.04 (E)	15"	CB-218
CB-220	401.45			396.41 (NE)	15"	CB-219
CB-223	393.90	24"	389.16 (W)	388.96 (N)	24"	TCB-222
CB-224	394.48	15" 15"	390.07 (W) 390.90 (N)	389.00 (S)	24"	DCB-221
CB-225	394.37			390.25 (E)	15"	CB-224

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-226	400.65	15"	396.57 (W)	396.37 (S)	15"	CB-224
CB-227	400.58			396.75 (E)	15"	CB-226
CB-252	384.38	30" 24"	373.28 (W) 376.79 (N)	373.08 (E)	30"	DMH-251
CB-253	386.49	24"	380.95 (N)	379.20 (S)	24"	CB-252
CB-254	388.52	24"	382.40 (NE)	382.30 (S)	24"	CB-253
CB-255	390.80	24" 24"	384.85 (W) 384.38 (N)	384.28 (SW)	24"	CB-254
CB-256	391.87	15" 18"	386.66 (NW) 385.41 (N)	384.91 (S)	24"	CB-255
CB-257	393.39			387.54 (S)	18"	CB-256
CB-259	391.20	15" 18"	386.47 (S) 386.47 (W)	386.27 (NE)	18"	DCB-258
CB-260	391.21			387.02 (N)	15"	CB-259
CB-261	394.52	18"	389.96 (NW)	389.86 (E)	18"	CB-259
CB-262	396.88	15" 15"	392.45 (S) 392.64 (W)	392.25 (SE)	18"	CB-261
CB-263	396.86	15"	392.83 (S)	392.73 (N)	15"	CB-262
CB-264	396.56			393.04 (N)	15"	CB-263
CB-265	397.85	15"	393.42 (S)	393.22 (E)	15"	CB-262
CB-266	397.84			393.70 (N)	15"	CB-265
CB-267	384.37	24" 24"	373.75 (S) 373.70 (NW)	373.50 (E)	30"	CB-252
CB-270	385.94	15" 15"	377.68 (E) 377.68 (S)	377.48 (N)	15"	TCB-268
CB-271	385.88	15"	378.15 (E)	377.95 (W)	15"	CB-270
CB-272	391.61	15"	378.77 (E)	378.57 (N)	15"	CB-270

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-273	391.63	15"	380.60 (E)	378.90 (W)	15"	CB-272
CB-279	386.77	24" 18"	374.20 (N) 378.86 (W)	374.00 (SE)	24"	CB-267
CB-280	386.78	18"	379.10 (NE)	374.50 (S)	24"	CB-279
CB-281	385.90	15"	379.67 (N)	379.47 (SW)	18"	CB-280
CB-282	387.00	15"	380.94 (NW)	380.74 (S)	15"	CB-281
CB-283	390.51	18" 18"	383.07 (W) 379.85 (S)	379.65 (E)	18"	CB-279
CB-285	392.15	18"	385.54 (W)	385.44 (E)	18"	CB-283
CB-286	393.69	15" 15"	387.95 (NE) 387.95 (W)	387.64 (E)	18"	CB-285
CB-287	393.67	15"	388.20 (N)	388.10 (SW)	15"	CB-286
CB-288	393.66			389.15 (S)	15"	CB-287
CB-289	396.85	15"	390.35 (NE)	390.15 (E)	15"	CB-286
CB-2006	396.33	15" 15"	391.75 (NE) 391.10 (N)	390.51 (SW)	15"	CB-289
CB-2010	397.89			391.39 (S)	15"	CB-2006
DCB-202	379.67	30"	363.77 (N)	363.67 (S)	30"	DI-201
DCB-221	393.48	24" 24"	388.29 (W) 388.32 (N)	388.09 (S)	24"	CB-214
DCB-258	390.80	18"	385.65 (SW)	385.15 (E)	24"	CB-255
DCB-269	384.04			374.45 (W)	24"	TCB-268
DI-201	376.60	30"	363.22 (N)	352.00 (S)	36"	FES-200
DI-228	379.24	18"	367.49 (N)	367.29 (W)	18"	CB-204
DI-229	376.78	18"	368.24 (N)	368.14 (S)	18"	DI-228

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
DI-230	377.50	18"	369.26 (NW)	369.16 (S)	18"	DI-229
DI-231	376.31	18"	370.50 (NW)	370.40 (SE)	18"	DI-230
DI-232	381.52	18"	375.50 (NW)	375.40 (SE)	18"	DI-231
DI-233	386.73	15"	381.75 (N)	381.50 (SE)	18"	DI-232
DI-234	392.16	15"	385.58 (N)	385.38 (S)	15"	DI-233
DI-235	398.17			393.03 (S)	15"	DI-234
DI-236	396.56	18" 18"	389.88 (N) 391.78 (NW)	389.68 (E)	24"	CB-223
DI-237	394.75	18"	391.10 (N)	390.17 (S)	18"	DI-236
DI-238	402.00			398.50 (SE)	18"	DI-236
DI-274	385.65			381.00 (W)	15"	CB-273
DI-275	384.04			380.00 (W)	15"	CB-271
DI-276	393.28	15"	388.68 (W)	388.48 (SE)	15"	CB-256
DI-277	396.12	15"	391.95 (W)	391.85 (E)	15"	DI-276
DI-278	398.33			394.10 (E)	15"	DI-277
DI-290	388.14	15"	383.53 (W)	383.33 (SE)	15"	CB-282
DI-291	390.96	15"	386.98 (W)	386.78 (E)	15"	DI-290
DI-292	394.59			390.75 (E)	15"	DI-291
DI-293	383.89	15" 18"	380.60 (W) 380.44 (S)	380.24 (N)	18"	CB-283
DI-294	388.87	15"	385.24 (W)	385.04 (E)	15"	DI-293
DI-295	392.33	15"	388.08 (W)	387.98 (E)	15"	DI-294

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
DI-296	396.79			392.54 (E)	15"	DI-295
DI-297	385.49	18"	381.70 (S)	381.50 (N)	18"	DI-293
DI-298	389.62			385.12 (N)	18"	DI-297
DI-299	395.73	18"	391.70 (N)	391.50 (S)	18"	DI-237
DI-2000	401.37			397.50 (S)	18"	DI-299
DI-2001	377.00	15"	371.80 (N)	371.60 (S)	15"	DI-2008
DI-2002	382.00	15"	378.20 (N)	378.00 (S)	15"	DI-2001
DI-2003	384.91			380.19 (S)	15"	DI-2002
DI-2004	379.50	15"	375.85 (N)	375.65 (E)	15"	CB-203
DI-2005	385.58			380.77 (S)	15"	DI-2004
DI-2007	396.61			392.50 (SW)	15"	CB-2006
DI-2008	374.82	15"	365.88 (N)	365.68 (S)	15"	DMH-251
DMH-251	371.41	30" 15"	362.00 (W) 365.00 (N)	355.00 (E)	30"	FES-250
FES-200		36"	351.25 (N)			
FES-250		30"	351.50 (W)			
FES-2000		24"	345.10 (N)			
R-2001				346.00 (S)	24"	FES-2000
TCB-222	393.48	24"	388.67 (S)	388.47 (E)	24"	DCB-221
TCB-268	384.00	24" 15"	374.20 (E) 376.25 (S)	374.00 (N)	24"	CB-267

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-203 TO CB-204	18"	28.28'	1.00%	18" RCP
CB-203 TO CB-205	24"	81.43'	5.12%	24" RCP
CB-203 TO DI-2004	15"	144.54'	0.56%	15" RCP
CB-204 TO DI-228	18"	137.00'	1.00%	18" RCP
CB-205 TO CB-206	15"	28.49'	1.50%	15" RCP
CB-205 TO CB-207	24"	76.88'	4.33%	24" RCP
CB-207 TO CB-208	15"	27.34'	0.51%	15" RCP
CB-207 TO CB-209	24"	106.77'	3.52%	24" RCP
CB-209 TO CB-210	15"	27.00'	1.12%	15" RCP
CB-209 TO CB-212	24"	95.23'	2.50%	24" RCP
CB-212 TO CB-213	24"	38.74'	1.01%	24" RCP
CB-213 TO CB-214	24"	66.06'	1.39%	24" RCP
CB-214 TO CB-215	18"	35.00'	1.15%	18" RCP
CB-214 TO DCB-221	24"	139.26'	0.96%	24" RCP
CB-215 TO CB-216	18"	42.03'	2.38%	18" RCP
CB-216 TO CB-217	15"	27.01'	0.64%	15" RCP
CB-216 TO CB-218	18"	66.89'	1.67%	18" RCP
CB-218 TO CB-219	15"	200.10'	1.83%	15" RCP
CB-219 TO CB-220	15"	31.34'	0.54%	15" RCP
CB-223 TO DI-236	24"	104.31'	0.50%	24" RCP

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-224 TO CB-225	15"	35.32'	0.50%	15" RCP
CB-224 TO CB-226	15"	162.56'	3.36%	15" RCP
CB-226 TO CB-227	15"	35.07'	0.50%	15" RCP
CB-252 TO CB-253	24"	112.90'	2.13%	24" RCP
CB-252 TO CB-267	30"	27.04'	0.81%	30" RCP
CB-253 TO CB-254	24"	98.11'	1.38%	24" RCP
CB-254 TO CB-255	24"	121.84'	1.54%	24" RCP
CB-255 TO CB-256	24"	55.22'	0.96%	24" RCP
CB-255 TO DCB-258	24"	35.00'	0.86%	24" RCP
CB-256 TO CB-257	18"	78.86'	2.70%	18" RCP
CB-256 TO DI-276	15"	69.90'	2.60%	15" RCP
CB-259 TO CB-260	15"	35.00'	1.57%	15" RCP
CB-259 TO CB-261	18"	82.20'	4.12%	18" RCP
CB-261 TO CB-262	18"	75.26'	3.04%	18" RCP
CB-262 TO CB-263	15"	35.02'	0.80%	15" RCP
CB-262 TO CB-265	15"	78.98'	0.73%	15" RCP
CB-263 TO CB-264	15"	26.33'	0.80%	15" RCP
CB-265 TO CB-266	15"	35.01'	0.80%	15" RCP
CB-267 TO CB-279	24"	46.29'	0.65%	24" RCP
CB-267 TO TCB-268	24"	49.30'	0.51%	24" RCP

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-270 TO CB-271	15"	27.04'	1.00%	15" RCP
CB-270 TO CB-272	15"	178.50'	0.50%	15" RCP
CB-271 TO DI-275	15"	133.35'	1.39%	15" RCP
CB-272 TO CB-273	15"	26.99'	0.50%	15" RCP
CB-273 TO DI-274	15"	79.57'	0.50%	15" RCP
CB-279 TO CB-280	24"	27.00'	1.11%	24" RCP
CB-279 TO CB-283	18"	89.27'	0.88%	18" RCP
CB-280 TO CB-281	18"	44.85'	0.82%	18" RCP
CB-281 TO CB-282	15"	59.41'	1.80%	15" RCP
CB-282 TO DI-290	15"	34.75'	6.88%	15" RCP
CB-283 TO CB-285	18"	69.27'	3.43%	18" RCP
CB-283 TO DI-293	18"	77.38'	0.50%	18" RCP
CB-285 TO CB-286	18"	74.03'	2.84%	18" RCP
CB-286 TO CB-287	15"	27.01'	0.56%	15" RCP
CB-286 TO CB-289	15"	146.68'	1.50%	15" RCP
CB-287 TO CB-288	15"	24.63'	3.86%	15" RCP
CB-289 TO CB-2006	15"	29.46'	0.53%	15" RCP
CB-2006 TO CB-2010	15"	57.48'	0.50%	15" RCP
CB-2006 TO DI-2007	15"	21.08'	3.56%	15" RCP
DCB-202 TO CB-203	30"	78.32'	0.98%	30" RCP

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
DCB-221 TO CB-224	24"	84.89'	0.80%	24" RCP
DCB-221 TO TCB-222	24"	35.00'	0.51%	24" RCP
DCB-258 TO CB-259	18"	45.73'	1.36%	18" RCP
DI-201 TO DCB-202	30"	22.49'	2.00%	30" RCP
DI-228 TO DI-229	18"	65.22'	1.00%	18" RCP
DI-229 TO DI-230	18"	91.98'	1.00%	18" RCP
DI-230 TO DI-231	18"	114.37'	1.00%	18" RCP
DI-231 TO DI-232	18"	125.29'	3.91%	18" RCP
DI-232 TO DI-233	18"	107.21'	5.60%	18" RCP
DI-233 TO DI-234	15"	91.94'	3.94%	15" RCP
DI-234 TO DI-235	15"	168.36'	4.43%	15" RCP
DI-236 TO DI-237	18"	54.97'	0.52%	18" RCP
DI-236 TO DI-238	18"	224.47'	2.99%	18" RCP
DI-237 TO DI-299	18"	71.63'	0.55%	18" RCP
DI-276 TO DI-277	15"	93.80'	3.38%	15" RCP
DI-277 TO DI-278	15"	100.00'	2.15%	15" RCP
DI-290 TO DI-291	15"	68.73'	4.73%	15" RCP
DI-291 TO DI-292	15"	88.60'	4.25%	15" RCP
DI-293 TO DI-294	15"	58.16'	7.63%	15" RCP
DI-293 TO DI-297	18"	89.62'	1.18%	18" RCP

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
DI-294 TO DI-295	15"	114.04'	2.40%	15" RCP
DI-295 TO DI-296	15"	140.31'	3.18%	15" RCP
DI-297 TO DI-298	18"	147.46'	2.32%	18" RCP
DI-299 TO DI-2000	18"	146.78'	3.95%	18" RCP
DI-2001 TO DI-2002	15"	116.23'	5.33%	15" RCP
DI-2002 TO DI-2003	15"	50.45'	3.94%	15" RCP
DI-2004 TO DI-2005	15"	132.08'	3.72%	15" RCP
DI-2008 TO DI-2001	15"	99.88'	5.73%	15" RCP
DMH-251 TO CB-252	30"	146.61'	7.56%	30" RCP
DMH-251 TO DI-2008	15"	22.22'	3.07%	15" RCP
FES-200 TO DI-201	36"	58.76'	1.28%	36" RCP
FES-250 TO DMH-251	30"	94.53'	3.70%	30" RCP
FES-2000 TO R-2001	24"	78.35'	1.15%	24" RCP
TCB-222 TO CB-223	24"	57.61'	0.50%	24" RCP
TCB-268 TO CB-270	15"	120.16'	1.02%	15" RCP
TCB-268 TO DCB-269	24"	26.97'	0.92%	24" RCP

STORM STRUCTURE NOTES:

- FES = FLARED END SECTION
- DI = GRATED YARD INLET
- CB = CATCH BASIN
- DCB = DOUBLE CATCH BASIN
- TCB = TRIPLE CATCH BASIN
- HW = HEADWALL
- PE = PIPE END

1. ALL YARD INLETS SHALL HAVE 4'X4' INSIDE DIMENSION UNLESS OTHERWISE NOTED.
2. RIM ELEVATION GIVEN FOR DI IS FLOW LINE.
3. RIM ELEVATION GIVEN FOR YI IS FLOW LINE, NOT TOP OF SLAB.
4. RIM ELEVATION GIVEN FOR CB IS TOP OF CURB, NOT FLOW LINE.
5. PIPE LENGTH INCLUDES FES LENGTH.

NOTE: HP STORM (POLYPROPYLENE) PIPE THAT EXCEEDS OR MEETS ASTM F2881 AND AASHTO M330 MAY BE USED IN LIEU OF RCP IN ALL AREAS EXCEPT SCM OUTLET PIPE.

RIP RAP DISSIPATOR SUMMARY TABLE

OUTLET	MEDIAN STONE DIAMETER (D_{50})	MINIMUM APRON LENGTH	WIDTH AT PIPE	WIDTH AT END	MAX STONE DIAMETER	APRON THICKNESS
FES100	0.60 FT	19.00 FT	9.00 FT	22.00 FT	0.90 FT	1.35 FT
FES152	0.25 FT	9.00 FT	4.50 FT	10.50 FT	0.38 FT	0.56 FT
FES200	0.85 FT	19.00 FT	9.00 FT	22.00 FT	1.28 FT	1.91 FT
FES250	0.66 FT	12.00 FT	7.50 FT	14.50 FT	0.99 FT	1.49 FT
FES300	0.85 FT	19.00 FT	9.00 FT	22.00 FT	1.28 FT	1.91 FT
FES350	0.85 FT	19.00 FT	9.00 FT	22.00 FT	1.28 FT	1.91 FT
FES400	0.55 FT	11.00 FT	6.00 FT	13.00 FT	0.83 FT	1.24 FT
FES450	0.85 FT	16.00 FT	7.50 FT	18.50 FT	1.28 FT	1.91 FT
FES475	0.50 FT	9.00 FT	3.75 FT	10.25 FT	0.75 FT	1.13 FT
FES1000	0.60 FT	18.00 FT	6.00 FT	20.00 FT	0.90 FT	1.35 FT
FES2000	0.50 FT	20.00 FT	6.00 FT	22.00 FT	0.75 FT	1.13 FT
HW3001	0.60 FT	19.00 FT	6.00 FT	24.00 FT	0.90 FT	2.81 FT
FES3003	0.33 FT	12.00 FT	9.00 FT	15.00 FT	0.50 FT	0.74 FT
HW4000	0.40 FT	12.00 FT	6.00 FT	14.00 FT	0.60 FT	0.90 FT
HW4020	0.55 FT	12.00 FT	6.00 FT	14.00 FT	0.83 FT	1.24 FT
FES4100	0.33 FT	12.00 FT	3.75 FT	13.25 FT	0.50 FT	0.74 FT
CULVERT 1	0.83 FT	40.00 FT	30.00 FT	30.00 FT	1.25 FT	1.88 FT
CULVERT 2	0.67 FT	30.00 FT	20.00 FT	15.00 FT	1.00 FT	1.50 FT
CULVERT 3	0.67 FT	18.80 FT	12.00 FT	10.00 FT	1.00 FT	1.50 FT
CULVERT 4	0.83 FT	40.00 FT	20.00 FT	20.00 FT	1.25 FT	1.88 FT
FESB104	0.25 FT	8.00 FT	3.75 FT	9.25 FT	0.38 FT	0.56 FT
FESB106	0.25 FT	8.00 FT	3.75 FT	9.25 FT	0.38 FT	0.56 FT
FES606	0.25 FT	8.00 FT	3.75 FT	9.25 FT	0.38 FT	0.56 FT
FES609	0.25 FT	8.00 FT	3.75 FT	9.25 FT	0.38 FT	0.56 FT
PE600	0.25 FT	8.00 FT	3.75 FT	9.25 FT	0.38 FT	0.56 FT
PE6000	0.25 FT	8.00 FT	3.75 FT	9.25 FT	0.38 FT	0.56 FT
HW1101	0.50 FT	9.00 FT	4.50 FT	10.50 FT	0.75 FT	1.13 FT
FES1300	0.50 FT	9.00 FT	4.50 FT	10.50 FT	0.75 FT	1.13 FT
FES1400	0.50 FT	12.00 FT	6.00 FT	14.00 FT	0.75 FT	1.13 FT
PE-1500	0.40 FT	12.00 FT	4.50 FT	13.50 FT	0.60 FT	0.90 FT

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

REV	DATE	DESCRIPTION
5	03/24/2025	SUBPHASING, SEWER, & CURB TYPES
4	11/04/2024	AMENITY CENTER REVISIONS
3	06/06/2024	RETAINING WALL LOCATION REVISION
2	06/04/2024	STORM STRUCTURE REVISIONS
1	04/08/2024	EROSION CONTROL REVISION

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

STORM SEWER TABLE (1 OF 2)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERM
Signed by: FDC35974B30F48A...
3/25/2025

FILE NUMBER: 8430-03
DATE: 3/24/2025
C4-7

SCM 3

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-302	405.83	15" 15" 24"	398.70 (NE) 391.72 (SE) 394.58 (NW)	391.52 (SW)	24"	DI-301
CB-303	405.85			399.00 (SW)	15"	CB-302
CB-304	408.06	24"	396.05 (NW)	395.95 (SE)	24"	CB-302
CB-305	409.39	18" 24"	399.62 (NE) 397.00 (NW)	396.80 (SE)	24"	CB-304
CB-306	409.18	18"	400.00 (E)	399.80 (SW)	18"	CB-305
CB-307	408.51	18"	402.45 (SE)	400.80 (W)	18"	CB-306
CB-308	408.51			402.80 (NW)	18"	CB-307
CB-309	410.42	24"	397.60 (W)	397.40 (SE)	24"	CB-305
CB-310	410.09	24"	398.20 (W)	398.10 (E)	24"	CB-309
CB-313	398.03	15"	393.22 (NE)	393.02 (NW)	15"	CB-302
CB-314	398.15			393.40 (SW)	15"	CB-313
CB-361	404.85	15" 15"	397.60 (E) 394.82 (NW)	389.24 (S)	30"	DI-356
CB-362	406.04	15"	399.00 (N)	398.80 (W)	15"	CB-361
CB-363	406.27	15"	399.30 (NE)	399.20 (S)	15"	CB-362
CB-364	408.24	15" 15"	399.73 (NE) 403.53 (N)	399.53 (SW)	15"	CB-363
CB-365	409.62			400.00 (SW)	15"	CB-364
CB-367	404.94	15"	399.70 (NW)	395.18 (SE)	15"	CB-361
CB-368A	401.58	15" 30"	391.01 (NW) 390.24 (S)	390.14 (NE)	30"	CB-368B
CB-368B	403.05	30"	389.88 (SW)	389.68 (E)	30"	DI-356
CB-372	400.83	15" 15"	392.16 (W) 392.16 (S)	391.96 (N)	15"	DCB-370

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-374	402.60	15"	392.97 (W)	392.77 (N)	15"	CB-372
CB-375	402.82			393.19 (E)	15"	CB-374
CB-381	411.23			406.58 (S)	15"	CB-364
DCB-311	409.12	18"	399.32 (N)	398.83 (E)	24"	CB-310
DCB-369	401.58			391.19 (SE)	15"	CB-368A
DCB-370	400.18	15" 24"	391.55 (S) 391.00 (W)	390.80 (N)	30"	CB-368A
DCB-371	400.18	24"	391.55 (W)	391.25 (E)	24"	DCB-370
DCB-373	400.83			392.51 (E)	15"	CB-372
DI-301	395.35	24"	386.50 (NE)	386.30 (SW)	24"	FES-300
DI-352	408.56			405.35 (W)	18"	DI-379
DI-355	394.14	30" 18"	388.48 (NW) 389.80 (S)	388.38 (E)	30"	DMH-354
DI-356	399.99	30" 30"	388.93 (N) 389.33 (W)	388.83 (SE)	30"	DI-355
DI-357	398.47	18"	390.20 (SW)	390.10 (N)	18"	DI-355
DI-358	398.56	18"	390.85 (S)	390.75 (NE)	18"	DI-357
DI-359	397.04	18"	392.08 (S)	391.88 (N)	18"	DI-358
DI-360	399.55			395.50 (N)	18"	DI-359
DI-368	406.57			400.00 (SE)	15"	CB-367
DI-376	398.87	18"	393.55 (N)	393.15 (E)	24"	DCB-371
DI-377	402.92	18"	394.80 (NE)	394.60 (S)	18"	DI-376
DI-378	404.73			397.47 (SW)	18"	DI-377

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STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
DI-379	406.73	18" 18"	398.30 (W) 403.40 (E)	389.17 (S)	18"	DMH-351
DI-380	404.52			400.13 (E)	18"	DI-379
DMH-351	394.07	30" 18"	384.88 (W) 386.00 (N)	384.18 (SE)	36"	FES-350
DMH-354	393.32	30"	387.98 (W)	387.78 (E)	30"	DMH-351
FES-300		24"	383.50 (NE)			
FES-350		36"	383.01 (NW)			
FES-3003		36"	379.40 (N)			
HW-3001		24"	376.50 (NW)			
R-3002				379.00 (SE)	24"	HW-3001
TCB-312	409.12			399.50 (S)	18"	DCB-311
YI-3004	396.06			381.14 (S)	36"	FES-3003

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
FES-300 TO DI-301	24"	171.78'	1.63%	RCP
DI-301 TO CB-302	24"	186.13'	2.70%	RCP
CB-302 TO CB-303	15"	35.00'	0.86%	RCP
CB-302 TO CB-313	15"	173.95'	0.75%	RCP
CB-313 TO CB-314	15"	35.14'	0.50%	RCP
CB-302 TO CB-304	24"	70.79'	1.94%	RCP
CB-305 TO CB-309	24"	79.18'	0.51%	RCP
CB-304 TO CB-305	24"	50.05'	1.50%	RCP
CB-363 TO CB-364	15"	42.43'	0.54%	RCP
CB-362 TO CB-363	15"	35.00'	0.57%	RCP
CB-310 TO DCB-311	24"	93.43'	0.67%	RCP
CB-372 TO CB-374	15"	122.19'	0.50%	RCP
DCB-370 TO CB-372	15"	79.15'	0.52%	RCP
CB-374 TO CB-375	15"	43.43'	0.50%	RCP
CB-372 TO CB-373	15"	35.00'	1.00%	RCP
DCB-370 TO TCB-371	24"	35.02'	0.72%	RCP
CB-368A TO DCB-370	30"	111.75'	0.50%	RCP
CB-368B TO CB-368A	30"	49.59'	0.52%	RCP
CB-361 TO CB-362	15"	84.50'	1.42%	RCP
CB-368A TO CB-369	15"	35.00'	0.51%	RCP

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-361 TO CB-367	15"	35.21'	1.02%	RCP
CB-364 TO CB-365	15"	38.69'	0.70%	RCP
TCB-371 TO DI-376	24"	126.99'	1.26%	RCP
DCB-311 TO TCB-312	18"	35.00'	0.50%	RCP
CB-305 TO CB-306	18"	35.05'	0.50%	RCP
CB-306 TO CB-307	18"	56.05'	1.43%	RCP
CB-307 TO CB-308	18"	35.00'	1.00%	RCP
DI-356 TO CB-361	30"	44.87'	0.68%	RCP
DI-355 TO DI-356	30"	69.34'	0.50%	RCP
FES-350 TO DMH-351	36"	233.35'	0.50%	RCP
DMH-351 TO DMH-354	30"	123.21'	2.35%	RCP
FES-3001 TO R-3002	24"	59.05'	4.23%	RCP
FES-3003 TO YI-3004	36"	248.37'	0.70%	RCP
CB-309 TO CB-310	24"	80.79'	0.62%	RCP
DI-355 TO DI-357	18"	26.65'	1.13%	RCP
DI-357 TO DI-358	18"	76.16'	0.72%	RCP
DI-358 TO DI-359	18"	86.94'	1.19%	RCP
DI-359 TO DI-360	18"	159.66'	2.14%	RCP
DMH-354 TO DI-355	30"	79.21'	0.50%	RCP
DI-379 TO DI-352	18"	160.79'	1.21%	RCP

STORM STRUCTURE NOTES:

- FES = FLARED END SECTION
- DI = GRATED YARD INLET
- CB = CATCH BASIN
- DCB = DOUBLE CATCH BASIN
- TCB = TRIPLE CATCH BASIN
- HW = HEADWALL
- PE = PIPE END

1. ALL YARD INLETS SHALL HAVE 4'X4' INSIDE DIMENSION UNLESS OTHERWISE NOTED.
2. RIM ELEVATION GIVEN FOR DI IS FLOW LINE.
3. RIM ELEVATION GIVEN FOR YI IS FLOW LINE. NOT TOP OF SLAB.
4. RIM ELEVATION GIVEN FOR CB IS TOP OF CURB, NOT FLOW LINE.
5. PIPE LENGTH INCLUDES FES LENGTH.

NOTE: HP STORM (POLYPROPYLENE) PIPE THAT EXCEEDS OR MEETS ASTM F2881 AND AASHTO M330 MAY BE USED IN LIEU OF RCP IN ALL AREAS EXCEPT SCM OUTLET PIPE.

SCM 4

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-407	394.71	18"	390.12 (NE)	389.92 (SE)	18"	DCB-406
CB-408	395.58	15"	390.45 (NE)	390.25 (SE)	15"	DCB-405
CB-409	395.63			390.80 (SW)	15"	CB-408
CB-410	395.73	15"	389.53 (SE)	389.33 (NW)	15"	DCB-405
CB-411	396.56	15"	391.93 (E)	391.73 (NW)	15"	CB-410
CB-412	396.96			392.21 (W)	15"	CB-411
CB-452	391.82	18" 24" 18"	380.20 (SW) 380.20 (NE) 380.20 (SE)	380.00 (NW)	30"	DI-451
CB-453	391.82	18"	380.67 (NE)	380.47 (NW)	18"	CB-452
CB-454	392.19	18"	380.92 (SE)	380.72 (SW)	18"	CB-453
CB-455	385.73	15"	381.13 (S)	380.88 (NE)	18"	CB-452
CB-456	384.76			381.30 (N)	15"	CB-455
CB-457	395.52	18" 15"	382.03 (NE) 387.87 (SE)	381.53 (SW)	24"	CB-452
CB-458	395.52			388.01 (NW)	15"	CB-457
CB-459	398.37	15" 18"	391.54 (SE) 383.12 (NE)	383.02 (SW)	18"	CB-457
CB-460	398.37			391.68 (NW)	15"	CB-459
CB-461	398.54	18"	383.81 (NE)	383.71 (SW)	18"	CB-459
CB-462	397.25	15" 15"	384.41 (SE) 389.75 (N)	384.21 (SW)	18"	CB-461
CB-463	397.21	15"	384.81 (SE)	384.61 (NW)	15"	CB-462
CB-464	398.44			393.59 (S)	15"	CB-462
CB-466	394.87	15"	385.36 (SE)	385.16 (NW)	15"	CB-463

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
CB-467	390.35	15" 15"	385.97 (NE) 385.97 (SW)	385.77 (NW)	15"	CB-466
CB-468	390.28			386.15 (SW)	15"	CB-467
CB-4025	379.99	18"	374.88 (SE)	374.68 (SW)	18"	DCB-4022
CB-4026	380.93			375.93 (NW)	18"	CB-4025
DCB-405	394.69	15" 18" 15"	388.75 (SE) 389.00 (NE) 389.34 (NW)	388.00 (SW)	24"	DI-401
DCB-406	394.69	18"	389.85 (NW)	389.65 (SW)	18"	DCB-405
DCB-4022	376.70	18"	367.03 (NE)	359.00 (W)	18"	DI-4021
DI-401	393.75	24" 18"	382.70 (NE) 385.00 (NW)	382.50 (S)	24"	FES-400
DI-402	391.30	18"	386.79 (NW)	386.59 (SE)	18"	DI-401
DI-403	398.87	18"	393.04 (NW)	392.84 (SE)	18"	DI-402
DI-404	401.81			397.32 (SE)	18"	DI-403
DI-415	394.38	18" 18"	390.90 (SE) 390.90 (NW)	390.70 (SW)	18"	CB-407
DI-416	396.47	18"	391.63 (SE)	391.53 (NW)	18"	DI-415
DI-451	386.93	30" 18"	379.21 (SE) 380.21 (SW)	379.11 (N)	30"	FES-450
DI-469	392.81	15"	389.35 (SW)	387.35 (NE)	15"	CB-467
DI-470	390.20	15" 15"	384.26 (NE) 381.87 (SW)	381.67 (NW)	18"	CB-454
DI-471	391.66	15"	386.00 (NE)	385.80 (SW)	15"	DI-470
DI-472	385.57			382.51 (NE)	15"	DI-470
DI-473	395.47			388.02 (SW)	15"	DI-471
DI-474	396.41			390.57 (NE)	15"	DI-469

STRUCTURE DATA TABLE						
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE
DI-476	392.51	15"	386.22 (NE)	384.00 (NW)	15"	FES-475
DI-477	394.56	15"	389.13 (NE)	388.93 (SW)	15"	DI-476
DI-478	398.12			392.68 (SW)	15"	DI-477
DI-479	388.15	18"	381.25 (SW)	381.05 (NE)	18"	DI-451
DI-480	385.25			381.75 (NE)	18"	DI-479
DI-481	398.43	18"	393.02 (SE)	392.92 (NW)	18"	DI-416
DI-482	398.43			394.43 (NW)	18"	DI-481
DI-483	397.03	18"	392.53 (NW)	392.43 (SE)	18"	DI-415
DI-484	400.59	18"	396.09 (NW)	395.99 (SE)	18"	DI-483
DI-485	404.39			399.89 (SE)	18"	DI-484
DI-4021	360.75	24" 18"	357.00 (N) 357.00 (E)	356.80 (W)	24"	HW-4020
DI-4023	367.76	18"	361.00 (NE)	357.90 (S)	24"	DI-4021
DI-4024	379.70			362.00 (SW)	18"	DI-4023
DI-4101	376.06			368.50 (W)	15"	FES-4100
FES-400		24"	380.50 (N)			
FES-450		30"	378.99 (S)			
FES-475		15"	380.50 (SE)			
FES-4100		15"	364.68 (E)			
HW-4000		24"	373.26 (E)			
HW-4020		24"	355.00 (E)			

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-452 TO CB-455	18"	133.49'	0.51%	RCP
CB-452 TO CB-457	24"	133.00'	1.00%	RCP
CB-455 TO CB-456	15"	34.00'	0.50%	RCP
CB-452 TO CB-453	18"	27.00'	1.00%	RCP
CB-457 TO CB-458	15"	27.02'	0.50%	RCP
FES-400 TO DI-401	24"	211.73'	0.94%	RCP
DI-401 TO CB-405	24"	134.57'	3.94%	RCP
CB-405 TO CB-410	15"	93.29'	0.62%	RCP
CB-405 TO CB-408	15"	91.00'	1.00%	RCP
CB-408 TO CB-409	15"	35.08'	1.00%	RCP
CB-405 TO CB-406	18"	35.00'	1.86%	RCP
CB-466 TO CB-467	15"	81.60'	0.50%	RCP
CB-463 TO CB-466	15"	47.08'	0.75%	RCP
CB-462 TO CB-463	15"	27.00'	0.75%	RCP
CB-461 TO CB-462	18"	80.71'	0.50%	RCP
CB-462 TO CB-464	15"	47.55'	8.08%	RCP
CB-411 TO CB-412	15"	39.92'	0.71%	RCP
CB-410 TO CB-411	15"	40.11'	5.48%	RCP
CB-459 TO CB-461	18"	78.01'	0.75%	RCP
CB-457 TO CB-459	18"	123.74'	0.80%	RCP

PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
CB-459 TO CB-460	15"	27.00'	0.50%	RCP
DI-451 TO CB-452	30"	158.96'	0.50%	RCP
DI-4023 TO DI-4024	18"	49.80'	2.01%	RCP
FES-450 TO DI-451	30"	23.51'	0.50%	RCP
DI-4021 TO CB-4022	18"	47.21'	4.24%	RCP
DI-4021 TO DI-4023	24"	106.33'	0.85%	RCP
CB-467 TO CB-468	15"	35.02'	0.50%	RCP
CB-407 TO DI-415	18"	117.45'	0.50%	RCP
CB-406 TO CB-407	18"	13.25'	0.50%	RCP
DI-415 TO DI-416	18"	126.25'	0.50%	RCP
CB-454 TO DI-470	18"	125.59'	0.60%	RCP
CB-453 TO CB-454	18"	9.96'	0.50%	RCP
HW-4020 TO DI-4021	24"	40.27'	4.47%	RCP
CB-467 TO DI-469	15"	23.64'	5.84%	RCP
DI-470 TO DI-471	15"	87.27'	1.76%	RCP
DI-470 TO DI-472	15"	107.31'	0.60%	RCP
DI-401 TO DI-402	18"	50.67'	3.14%	RCP
DI-402 TO DI-403	18"	166.90'	3.62%	RCP
DI-403 TO DI-404	18"	84.41'	5.07%	RCP
FES-4100 TO DI-4101	15"	68.15'	5.61%	RCP

ISOLATED STRUCTURES

STRUCTURE DATA TABLE							
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE	PIPE OUT MATERIAL
AD-600	373.67			361.50 (E)	15"	PE-600	RCP
AD-604	383.81			370.75 (SE)	15"	PE-6000	RCP
AD-607	386.33			382.25 (S)	15"	AD-608	RCP
AD-608	384.69	15"	381.95 (N)	381.75 (W)	15"	FES-609	RCP
DI-605	377.65			374.71 (NW)	15"	FES-606	RCP
DI-1501	406.84			403.24 (E)	18"	DI-1502	RCP
DI-1502	407.30	18" 18"	402.88 (E) 400.76 (W)	399.50 (S)	18"	DMH-1501	RCP
DI-1504	410.43			404.76 (W)	18"	DI-1502	RCP
DI-B105	388.56			385.62 (E)	15"	FES-B104	RCP
DI-B107	360.39	15" 15"	357.65 (NW) 357.65 (SW)	357.45 (E)	15"	FES-B106	RCP
DI-B108	366.00			361.95 (SE)	15"	DI-B107	RCP
DI-B109	367.52			362.47 (NE)	15"	DI-B107	RCP
DMH-1201	394.69	36"	378.97 (NW)	378.77 (S)	36"	YI-1200	RCP
DMH-1202	400.17	36"	380.08 (N)	379.88 (SE)	36"	DMH-1201	RCP
DMH-1203	404.47	30"	392.25 (NW)	380.75 (S)	36"	DMH-1202	RCP
DMH-1204	414.17	30"	400.97 (N)	400.87 (SE)	30"	DMH-1203	RCP
DMH-1301	400.98	18" 12" 12"	396.44 (SW) 396.54 (N) 396.54 (SE)	396.34 (E)	18"	FES-1300	RCP
DMH-1302	405.06	18"	397.45 (NW)	397.12 (NE)	18"	DMH-1301	RCP
DMH-1303	406.91	18"	398.29 (NW)	398.09 (SE)	18"	DMH-1302	RCP
DMH-1401	396.68	24"	389.49 (E)	389.29 (S)	24"	FES-1400	RCP

STRUCTURE DATA TABLE								
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE	PIPE OUT MATERIAL
DMH-1402	398.74	24"	390.41 (NE)	390.31 (W)	24"	DMH-1401	RCP
DMH-1501	407.62	18"	395.02 (N)	394.92 (SE)	18"	PE-1500	RCP
FES-606		15"	374.25 (SE)				
FES-609		15"	381.61 (E)				
FES-1300		18"	396.20 (W)				
FES-1400		24"	388.44 (N)				
FES-B104		15"	385.50 (W)				
FES-B106		15"	357.31 (W)				
FES 1301A				397.73 (S)	12"	DMH-1301	HDPE
FES 1301B				397.22 (NW)	12"	DMH-1301	HDPE
HW-1101		18"	392.40 (E)				
HW-C101				390.81 (S)	48"	HW-C102	4'X4' RCB
HW-C102		48"	390.50 (N)				
HW-C201		48"	403.20 (N)				
HW-C202				403.70 (S)	48"	HW-C201	4'X4' RCB
HW-C301							
HW-C302							
HW-C401				393.20 (S)	48"	HW-C402	4'X4' RCB
HW-C402		48"	392.82 (N)				
JB-1100	399.14			394.00 (W)	18"	HW-1101	RCP

STRUCTURE DATA TABLE							
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT TO NODE	PIPE OUT MATERIAL
PE-600		15"	361.00 (W)				
PE-1500		18"	394.56 (NW)				
PE-6000		15"	370.45 (NW)				
YI-1200	383.38	36"	377.90 (N)	377.70*	2x 30"		
YI-1205	411.95	24"	406.69 (E)	406.49 (S)	30"	DMH-1204	RCP
YI-1206	412.75	24"	407.52 (E)	407.42 (W)	24"	YI-1205	RCP
YI-1207	413.55			409.55 (W)	24"	YI-1206	RCP
YI-1304	402.48			398.62 (SE)	18"	DMH-1303	RCP
YI-1403	395.93			390.93 (SW)	24"	DMH-1402	RCP

*NOTE: EXISTING PIPE ELEVATIONS AT YI-1200 ARE APPROXIMATE AS THESE INVERTS WERE NOT SURVEYED

Know what's below. Call before you dig.

REV	DATE	DESCRIPTION
1	06/04/2024	STORM STRUCTURE REVISIONS
2	04/08/2024	EROSION CONTROL REVISION

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ROLESVILLE / NORTH CAROLINA / 27571

STORM SEWER TABLE (2 OF 2)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERRELL 07-29-24

FILE NUMBER: 8430-03
DATE: 06/04/2024
C4-8

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C4-0 - GRAD-PLAN.dwg Layout: C4-8 STORM SEWER TABLE (2 OF 2) Plotted: 6/4/2024 9:41:54 AM

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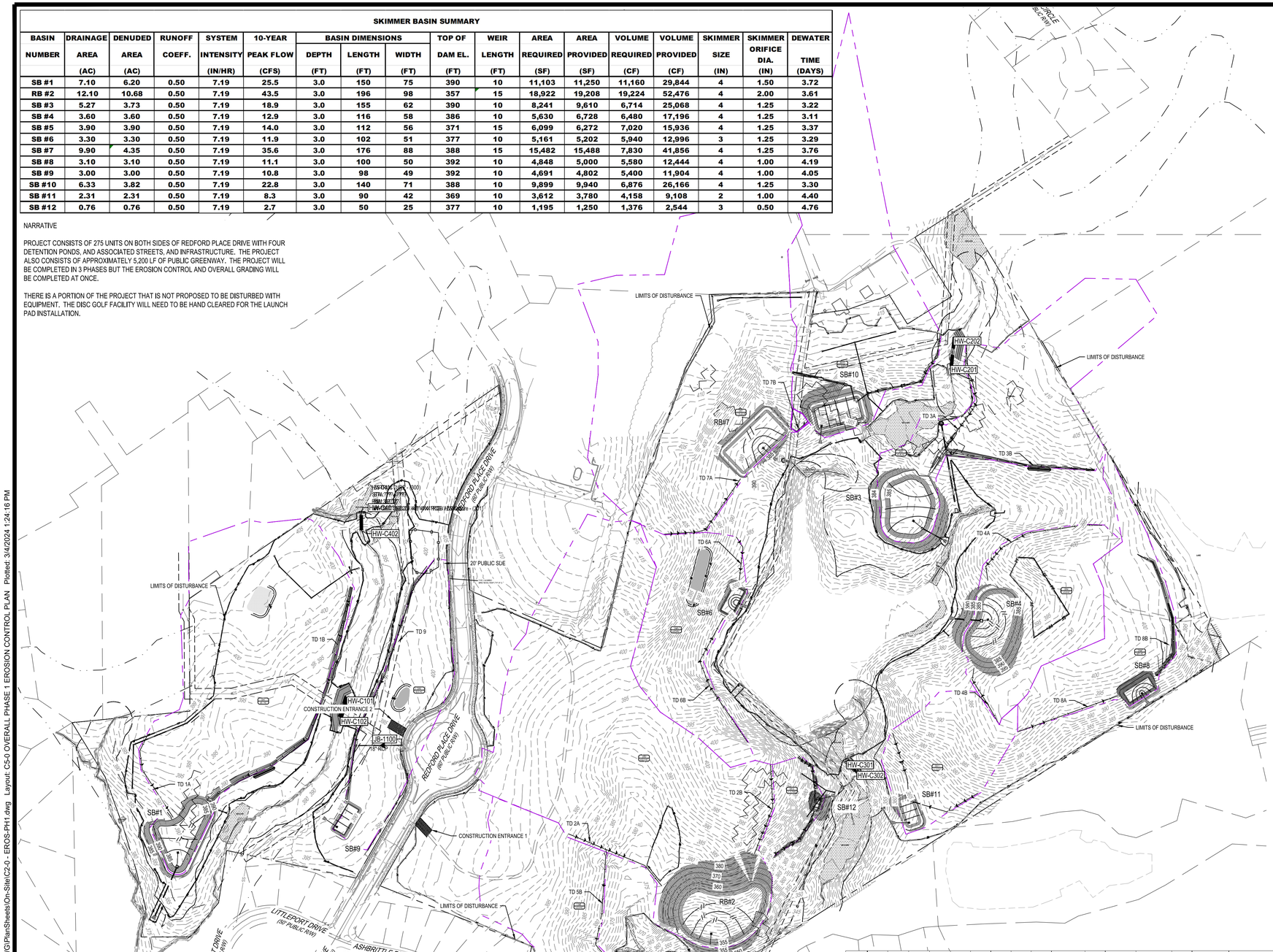
SKIMMER BASIN SUMMARY

BASIN NUMBER	DRAINAGE AREA (AC)	DENUDED AREA (AC)	RUNOFF COEFF.	SYSTEM INTENSITY (IN/HR)	10-YEAR PEAK FLOW (CFS)	BASIN DIMENSIONS DEPTH (FT)	LENGTH (FT)	WIDTH (FT)	TOP OF DAM EL. (FT)	WEIR LENGTH (FT)	AREA REQUIRED (SF)	AREA PROVIDED (SF)	VOLUME REQUIRED (CF)	VOLUME PROVIDED (CF)	SKIMMER SIZE (IN)	SKIMMER ORIFICE DIA. (IN)	DEWATER TIME (DAYS)
SB #1	7.10	6.20	0.50	7.19	25.5	3.0	150	75	390	10	11,103	11,250	11,160	29,844	4	1.50	3.72
RB #2	12.10	10.68	0.50	7.19	43.5	3.0	196	98	357	15	18,922	19,208	19,224	52,476	4	2.00	3.61
SB #3	5.27	3.73	0.50	7.19	18.9	3.0	155	62	390	10	8,241	9,610	6,714	25,068	4	1.25	3.22
SB #4	3.60	3.60	0.50	7.19	12.9	3.0	116	58	386	10	5,630	6,728	6,480	17,196	4	1.25	3.11
SB #5	3.90	3.90	0.50	7.19	14.0	3.0	112	56	371	15	6,099	6,272	7,020	15,936	4	1.25	3.37
SB #6	3.30	3.30	0.50	7.19	11.9	3.0	102	51	377	10	5,161	5,202	5,940	12,996	3	1.25	3.29
SB #7	9.90	4.35	0.50	7.19	35.6	3.0	176	88	388	15	15,482	15,488	7,830	41,856	4	1.25	3.76
SB #8	3.10	3.10	0.50	7.19	11.1	3.0	100	50	392	10	4,848	5,000	5,580	12,444	4	1.00	4.19
SB #9	3.00	3.00	0.50	7.19	10.8	3.0	98	49	392	10	4,691	4,802	5,400	11,904	4	1.00	4.05
SB #10	6.33	3.82	0.50	7.19	22.8	3.0	140	71	388	10	9,899	9,940	6,876	26,166	4	1.25	3.30
SB #11	2.31	2.31	0.50	7.19	8.3	3.0	90	42	369	10	3,612	3,780	4,158	9,108	2	1.00	4.40
SB #12	0.76	0.76	0.50	7.19	2.7	3.0	50	25	377	10	1,195	1,250	1,376	2,544	3	0.50	4.76

NARRATIVE

PROJECT CONSISTS OF 275 UNITS ON BOTH SIDES OF REDFORD PLACE DRIVE WITH FOUR DETENTION PONDS, AND ASSOCIATED STREETS, AND INFRASTRUCTURE. THE PROJECT ALSO CONSISTS OF APPROXIMATELY 5,200 LF OF PUBLIC GREENWAY. THE PROJECT WILL BE COMPLETED IN 3 PHASES BUT THE EROSION CONTROL AND OVERALL GRADING WILL BE COMPLETED AT ONCE.

THERE IS A PORTION OF THE PROJECT THAT IS NOT PROPOSED TO BE DISTURBED WITH EQUIPMENT. THE DISC GOLF FACILITY WILL NEED TO BE HAND CLEARED FOR THE LAUNCH PAD INSTALLATION.



EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- DIRECTION OF OVERLAND FLOW
- DIRECTION OF OVERLAND FLOW
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH OR BERM
- TEMP SILT FENCE WITH OUTLET
- TEMP TREE PROTECTION FENCE
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- PIPE INLET PROTECTION
- INLET PROTECTION
- EXCAVATED INLET PROTECTION
- ROCK OUTCROP
- LIMIT OF DRAINAGE AREA

CONSTRUCTION SEQUENCE - PHASE 1

1. INSTALL TREE PROTECTION FENCING PER THE APPROVED PLAN. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH WAKE COUNTY. OBTAIN A LAND DISTURBING PERMIT.
2. INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE, AND BRIDGEMATS AT STREAM CROSSINGS TO ACCESS AREAS ON EACH SIDE OF THE STREAMS. SEE SHEETS C7-4 - C7-7 FOR TEMPORARY CHANNEL SIZING AND CULVERT INSTALLATION SEQUENCING.
3. INSTALL TEMPORARY DIVERSIONS, SKIMMER BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
4. INSTALL THE OUTLET FOR SB4 AND THE BYPASS LINE FROM FES3003 - YI3004 WITH INLET PROTECTION.
5. CALL WAKE COUNTY FOR AN ONSITE INSPECTION BY THE COUNTY TO OBTAIN A CERTIFICATE OF COMPLIANCE.
6. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
7. INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION, BUILDING, ETC.

STOCKPILE NOTES:

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

TD#	DA (ac)	L (ft)	High El. (ft)	Low El. (ft)	Slope (ft/ft)	C	I (in/hr)	Q (10) (cfs)	Bottom W (ft)	Side Slopes (X:1)	V (fps)	Normal D (in)	Normal D (ft)	Depth Reqd. (ft)	Shear Stress (lb/sf)	Liner Reqd.	Slope Drain Size & Material	Check Dam Sp. (ft)	# Check Dams
1A	0.51	264	398	390	0.030	0.500	7.13	1.82	2.00	2.00	3.03	3.2	0.27	1.00	0.5	Am. Excelsior - 1 net	15" HDPE	99	3
1B	5.95	790	398	390	0.010	0.500	7.13	21.21	4.00	2.00	4.10	15.3	1.28	2.00	0.8	NAG Straw- 2 nets	24" HDPE	296	3
2A	8.97	315	394	376	0.057	0.50	7.13	31.98	2.00	6.00	7.69	7.70	0.64	1.50	2.29	NGA 70% straw/30% coconut - 2 nets	2-24" HDPE	53	6
2B	0.44	257	398	383	0.060	0.50	7.13	1.57	2.00	2.00	3.53	2.20	0.18	1.00	0.69	Am. Excelsior - 1 net	12" HDPE	50	5
3A	0.74	336	407	393	0.042	0.50	7.13	2.63	2.00	2.00	3.69	3.30	0.28	1.00	0.72	Am. Excelsior - 1 net	15" HDPE	72	5
3B	3.57	443	401	393	0.018	0.50	7.13	12.73	2.00	2.00	4.45	10.30	0.86	1.50	0.97	NAG Straw- 2 nets	24" HDPE	166	3
4A	0.58	412	397	383	0.033	0.50	7.13	2.07	2.00	2.00	3.15	3.10	0.26	1.00	0.53	Am. Excelsior - 1 net	15" HDPE	91	5
4B	0.27	184	398	392	0.033	0.50	7.13	0.96	2.00	2.00	2.45	2.00	0.17	1.00	0.35	Grass	12" HDPE	90	2
5A	0.19	135	394	382	0.090	0.500	7.13	0.68	4.00	2.00	3.01	1.2	0.10	1.00	0.6	Am. Excelsior - 1 net	12" HDPE	33	4
5B	2.99	302	381	374	0.022	0.50	7.13	10.66	2.00	2.00	4.43	8.50	0.71	1.50	0.98	NAG Straw- 2 nets	24" HDPE	136	2
6A	0.55	132	387	381	0.045	0.50	7.13	1.96	2.00	2.00	3.44	2.80	0.23	1.00	0.66	NAG Straw- 2 nets	18" HDPE	66	2
6B	1.35	414	398	376	0.053	0.50	7.13	4.81	2.00	2.00	4.82	4.40	0.37	1.00	1.20	NAG Straw- 2 nets	24" HDPE	57	7
7A	2.45	294	412	389	0.079	0.50	7.13	8.73	2.00	2.00	6.62	5.40	0.45	1.00	2.23	NGA 70% straw/30% coconut - 2 nets	24" HDPE	38	8
7B	0.05	456	402	392	0.022	0.50	7.13	0.18	2.00	2.00	1.24	0.90	0.08	1.50	0.10	Grass	12" HDPE	137	3
8A	0.89	303	397	391	0.018	0.50	7.13	3.17	2.00	2.00	2.91	4.70	0.39	1.00	0.44	Am. Excelsior - 1 net	18" HDPE	168	2
8B	1.24	530	398	396	0.004	0.50	7.13	4.42	2.00	2.00	1.93	8.90	0.74	1.50	0.17	Grass	12" HDPE	795	1
9	2.24	739	401	390	0.015	0.500	7.13	7.99	2.00	2.00	3.56	8.1	0.68	1.50	0.6	Am. Excelsior - 1 net	24" HDPE	204	4
10A	2.70	173	405	394	0.061	0.500	7.13	9.63	2.00	2.00	6.21	6.2	0.52	1.00	2.0	NGA 70% straw/30% coconut - 2 nets	24" HDPE	49	4
10B	2.07	307	409	395	0.046	0.50	7.13	7.38	2.00	2.00	5.80	5.20	0.43	1.00	1.2	NAG Straw- 2 nets	24" HDPE	66	5
11A	1.35	178	375	366	0.057	0.50	7.13	4.79	2.00	2.00	4.93	4.30	0.36	1.00	1.3	NAG Straw- 2 nets	24" HDPE	52	3
11B	0.55	172	374	364	0.058	0.50	7.13	1.96	2.00	2.00	3.75	2.60	0.22	1.00	0.8	Am. Excelsior - 1 net	24" HDPE	52	3
12A	0.20	113	386	374	0.106	0.50	7.13	0.71	2.00	2.00	3.18	1.20	0.10	2.00	0.7	Am. Excelsior - 1 net	12" HDPE	28	4
12B	0.17	186	376	364	0.065	0.50	7.13	0.60	2.00	2.00	2.60	1.30	0.11	3.00	0.4	Am. Excelsior - 1 net	12" HDPE	47	4

TOTAL DISTURBED AREA
±62.9 ACRES

0 75 150 300
SCALE: 1" = 150

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

REV	DATE	DESCRIPTION
7	02/14/2024	PER TOWN OF ROLESVILLE COMMENT
6	1/12/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
5	11/21/2023	PER TOWN OF ROLESVILLE COMMENT
4	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
3	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
2	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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PARKER RIDGE
82 SCHOOL STREET
ROLESVILLE / NORTH CAROLINA / 27571

OVERALL PHASE 1 EROSION CONTROL PLAN

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERN
DocuSigned by: Debbi Fern 3/13/2024

FILE NUMBER: 8430-03
DATE: 03/04/2024
C5-0

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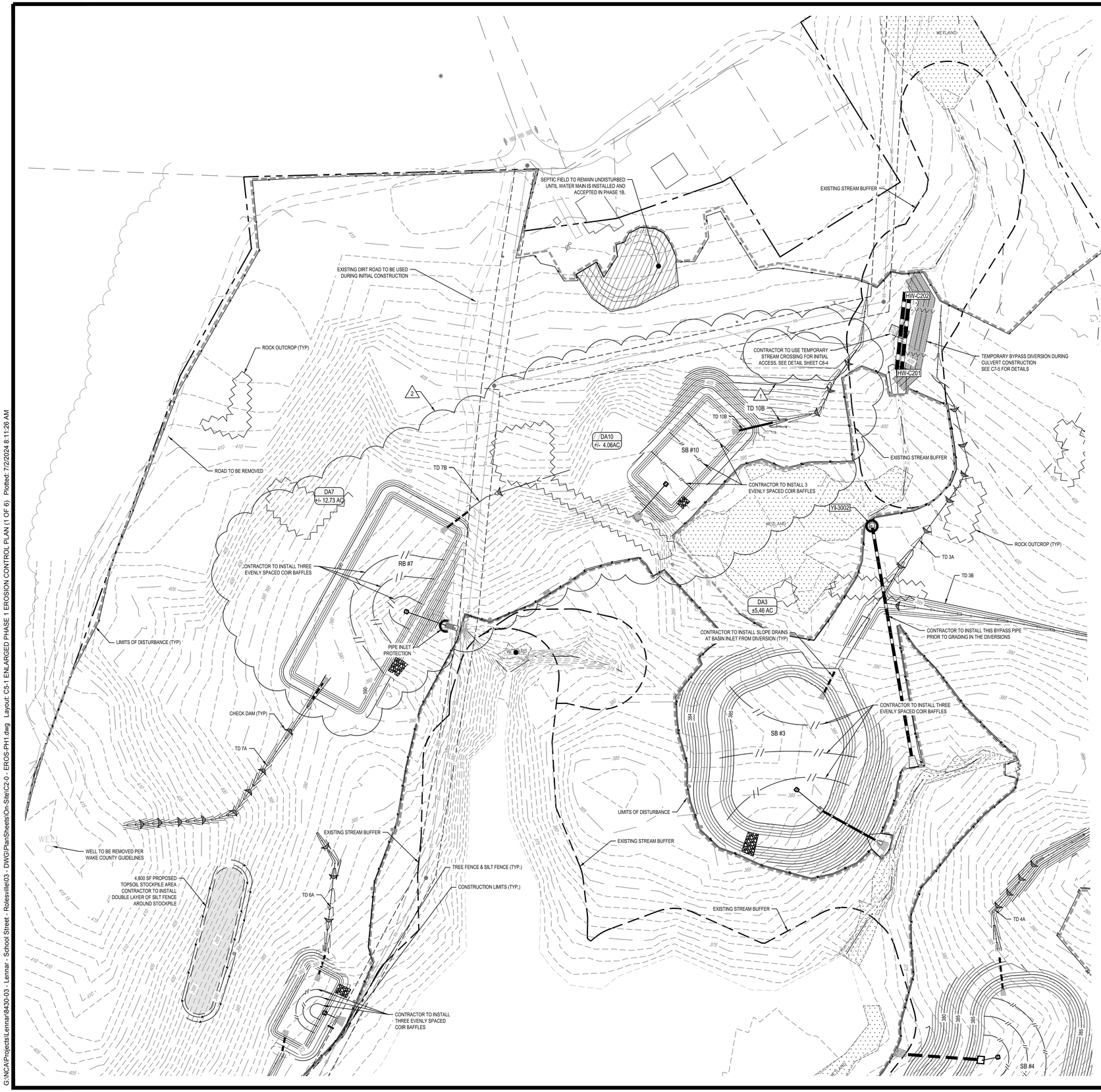

EROSION CONTROL LEGEND

- PROPERTY LINE
- 600 — EXISTING MAJOR CONTOUR
- 601 — EXISTING MINOR CONTOUR
- 600 — PROPOSED MAJOR CONTOUR
- 601 — PROPOSED MINOR CONTOUR
- H:V, X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX, 100.XX — DIRECTION OF OVERLAND FLOW
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH OR BERM
- SF — TEMP SILT FENCE WITH OUTLET
- PF — TEMP TREE PROTECTION FENCE
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- PIPE INLET PROTECTION
- INLET PROTECTION
- EXCAVATED INLET PROTECTION
- ROCK OUTCROP

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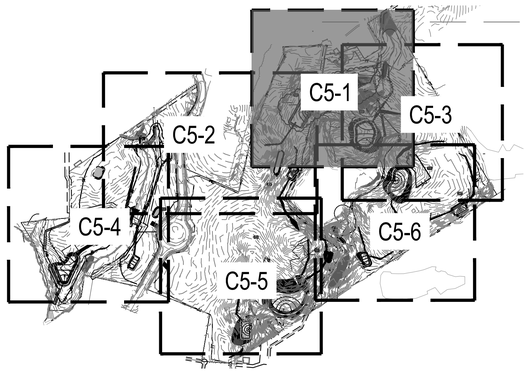

0 25' 50' 100'
SCALE: 1" = 50'

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

REV	DATE	DESCRIPTION
1	06/06/2024	RETAINING WALL LOCATION REVISION
2	05/04/2024	STORM STRUCTURE REVISIONS
3	04/08/2024	EROSION CONTROL REVISION

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ROLESVILLE / NORTH CAROLINA / 27571

ENLARGED PHASE 1 EROSION CONTROL PLAN (1 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 022892 ENGINEER DEBRA M. FERRELL
7-2-24

FILE NUMBER: 8430-03
DATE: 06/06/2024
C5-1

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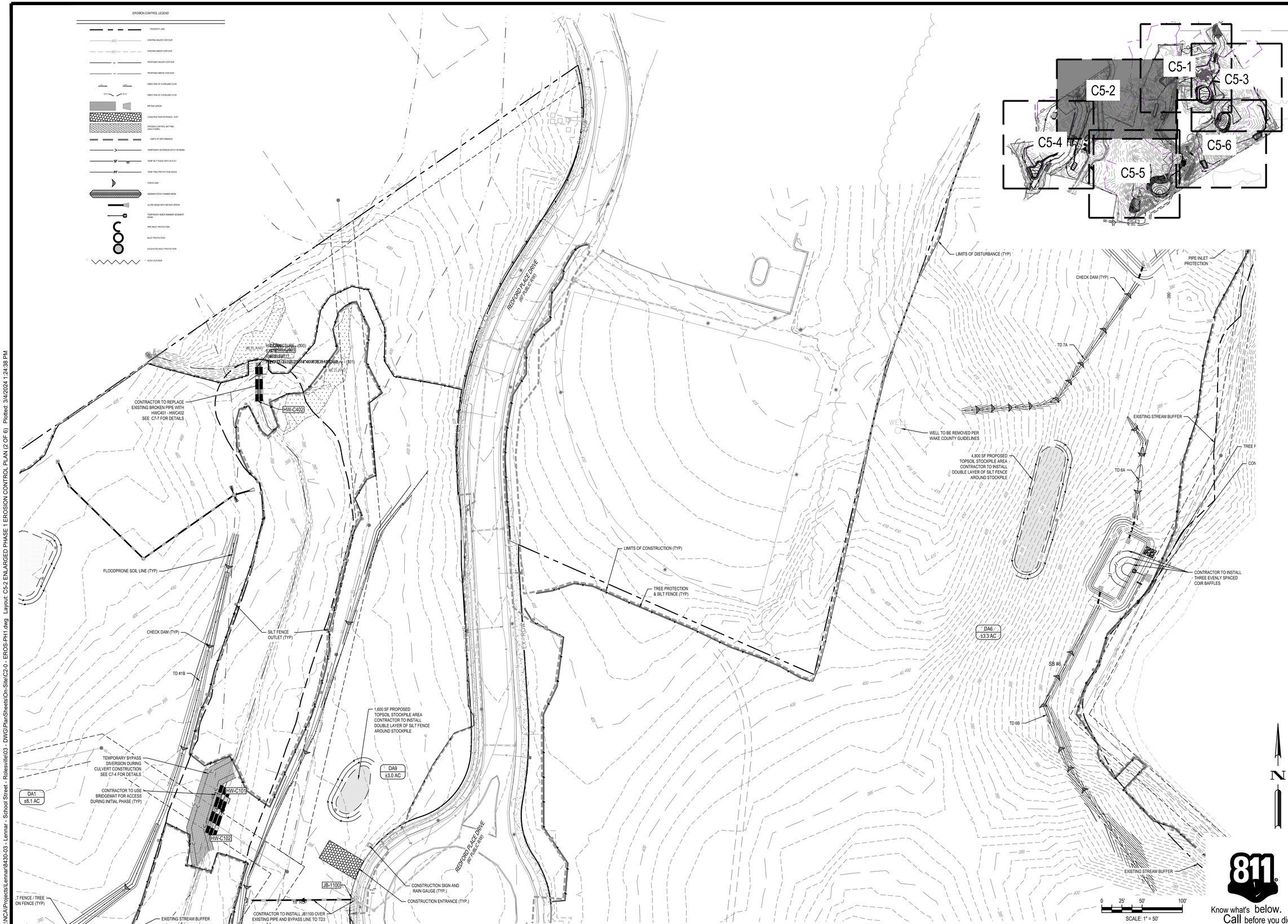

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REV	DATE	DESCRIPTION
4	02/14/2024	PER TOWN OF ROLESVILLE COMMENT
3	1/12/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
2	11/21/2023	PER TOWN OF ROLESVILLE COMMENT
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED PHASE 1 EROSION CONTROL PLAN (2 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERM
DocuSigned by: Debra Ferm 3/13/2024

FILE NUMBER: 8430-03
DATE: 03/04/2024
C5-2

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EROSION CONTROL LEGEND

- PROPERTY LINE
- 600 — EXISTING MAJOR CONTOUR
- 601 — EXISTING MINOR CONTOUR
- 600 — PROPOSED MAJOR CONTOUR
- 601 — PROPOSED MINOR CONTOUR
- H.V. / X.X% — DIRECTION OF OVERLAND FLOW
- 100.XX / 100.XX — DIRECTION OF OVERLAND FLOW
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- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH OR BERM
- SF — TEMP SILT FENCE WITH OUTLET
- TF — TEMP TREE PROTECTION FENCE
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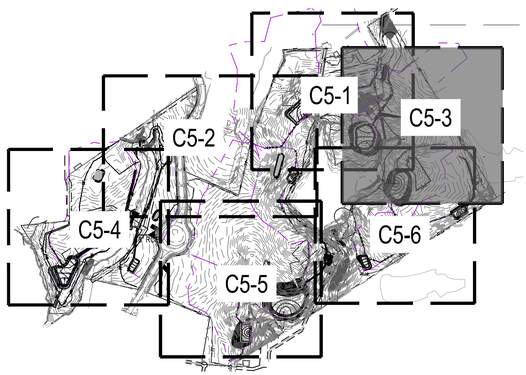
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- PIPE INLET PROTECTION
- INLET PROTECTION
- EXCAVATED INLET PROTECTION
- ROCK OUTCROP

N



0 25' 50' 100'
SCALE: 1" = 50'

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

REV	DATE	DESCRIPTION
4	02/14/2024	PER TOWN OF ROLESVILLE COMMENT
3	1/12/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
2	11/21/2023	PER TOWN OF ROLESVILLE COMMENT
1	10/02/2023	PER TOWN OF ROLESVILLE COMMENT
	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED SITE PLAN (3 OF 7)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERM
DocuSigned by: Debra Ferm 03/04/2024

FILE NUMBER: 8430-03
DATE: 03/04/2024
C5-3

G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C2-0 - EROS-PH1.dwg Layout: C5-3 ENLARGED PHASE 1 EROSION CONTROL PLAN (3 OF 6) Plotted: 3/4/2024 1:24:47 PM

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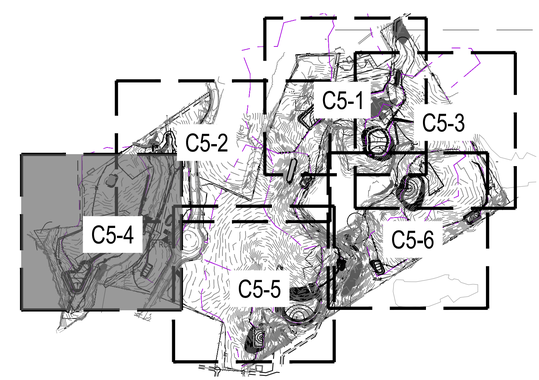
EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (600)
- EXISTING MINOR CONTOUR (601)
- PROPOSED MAJOR CONTOUR (600)
- PROPOSED MINOR CONTOUR (601)
- DIRECTION OF OVERLAND FLOW (H.V. / X.X%)
- DIRECTION OF OVERLAND FLOW (100.XX / 100.XX)
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH OR BERM
- TEMP SILT FENCE WITH OUTLET (SF)
- TEMP TREE PROTECTION FENCE (PF)
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
- TEMPORARY RISER SKIMMER SEDIMENT BASIN
- PIPE INLET PROTECTION
- INLET PROTECTION
- EXCAVATED INLET PROTECTION
- ROCK OUTCROP

N



0 25' 50' 100'
SCALE: 1" = 50'

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

REV	DATE	DESCRIPTION
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1	08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED PHASE 1 EROSION CONTROL PLAN (4 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA W. FERM
DocuSigned by: Debra Ferm 3/13/2024

FILE NUMBER: 8430-03
DATE: 03/04/2024
C5-4

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EROSION CONTROL LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (600)
- EXISTING MINOR CONTOUR (601)
- PROPOSED MAJOR CONTOUR (600)
- PROPOSED MINOR CONTOUR (601)
- DIRECTION OF OVERLAND FLOW (H:V, X.X%)
- DIRECTION OF OVERLAND FLOW (100.XX)
- RIP RAP APRON
- CONSTRUCTION ENTRANCE / EXIT
- EROSION CONTROL MATTING (NAG S150BN)
- LIMITS OF DISTURBANCE
- TEMPORARY DIVERSION DITCH OR BERM
- TEMP SILT FENCE WITH OUTLET
- TEMP TREE PROTECTION FENCE
- CHECK DAM
- SEDIMENTATION CHAMBER BERM
- SLOPE DRAIN WITH RIP-RAP APRON
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- PIPE INLET PROTECTION
- INLET PROTECTION
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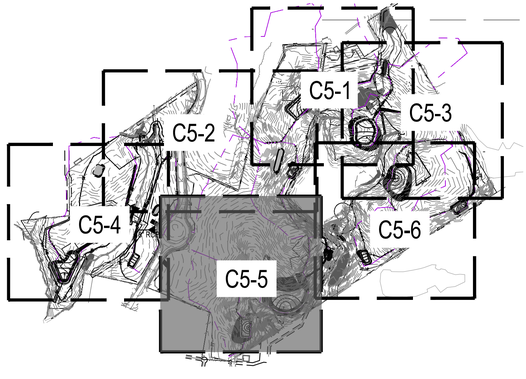
- ROCK OUTCROP

N



0 25' 50' 100'
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REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
DRAWN BY: DF/JWM
REVIEWED BY: DF

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ENLARGED PHASE 1 EROSION CONTROL PLAN (5 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERM
DocuSigned by: Debbi Ferm 3/13/2024

FILE NUMBER: 8430-03
DATE: 03/04/2024
C5-5

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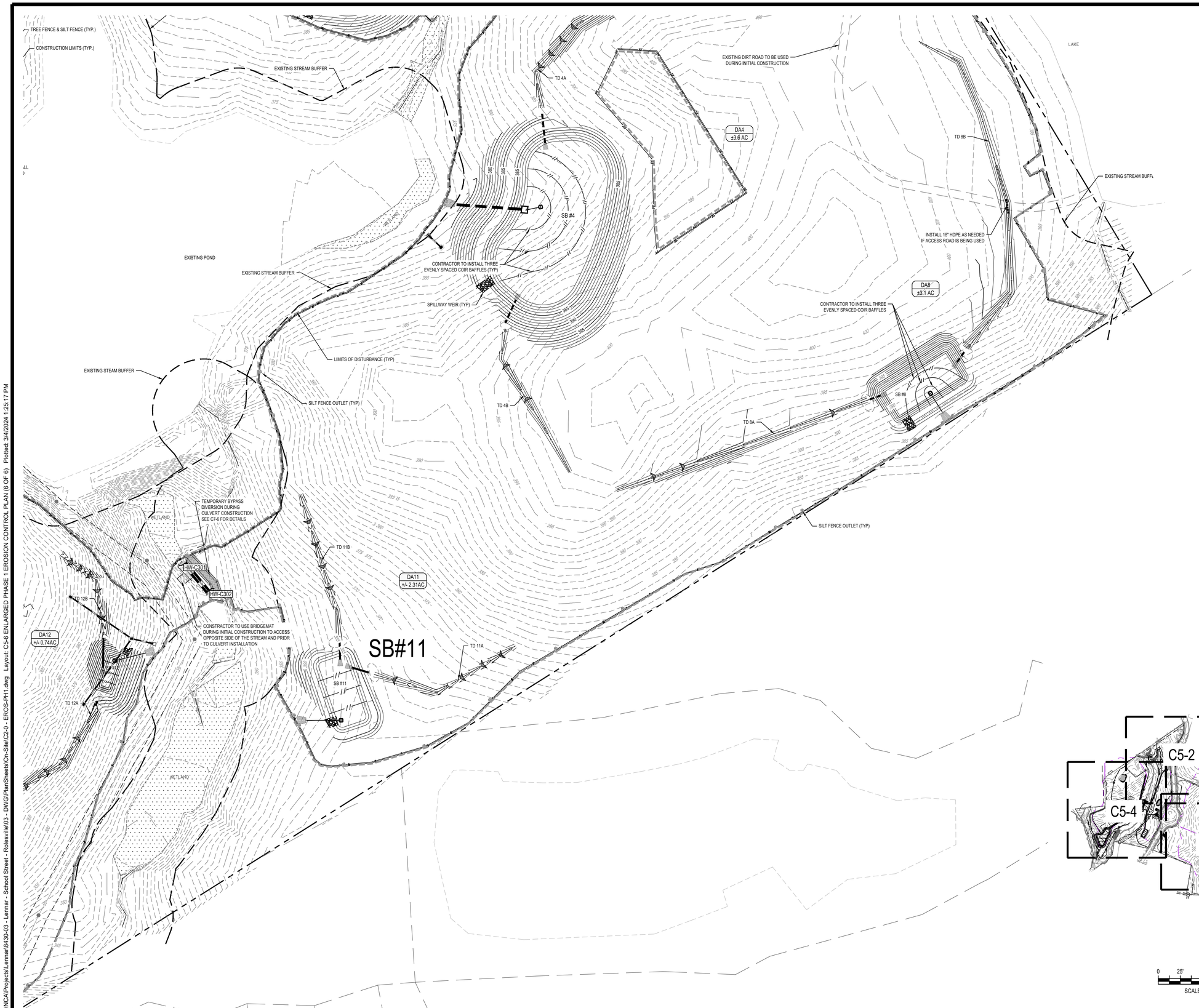

EROSION CONTROL LEGEND

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REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD
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ENLARGED PHASE 1 EROSION CONTROL PLAN (6 OF 6)

NORTH CAROLINA PROFESSIONAL SEAL 028892 ENGINEER DEBRA M. FERN
DocuSign 9/13/2024
Debbi Fern

FILE NUMBER: 8430-03
DATE: 03/04/2024
C5-6

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