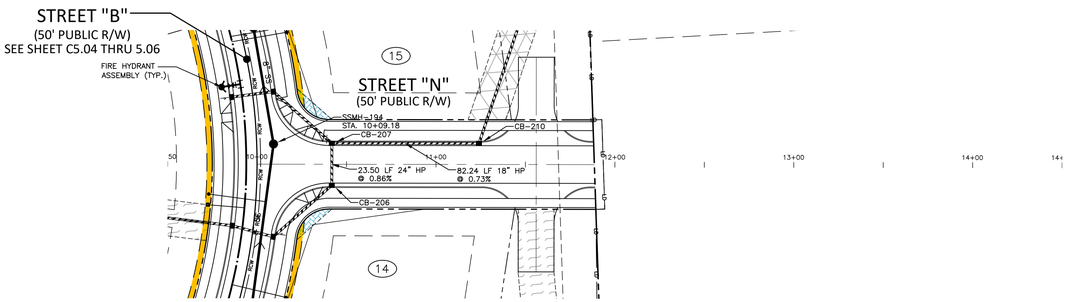
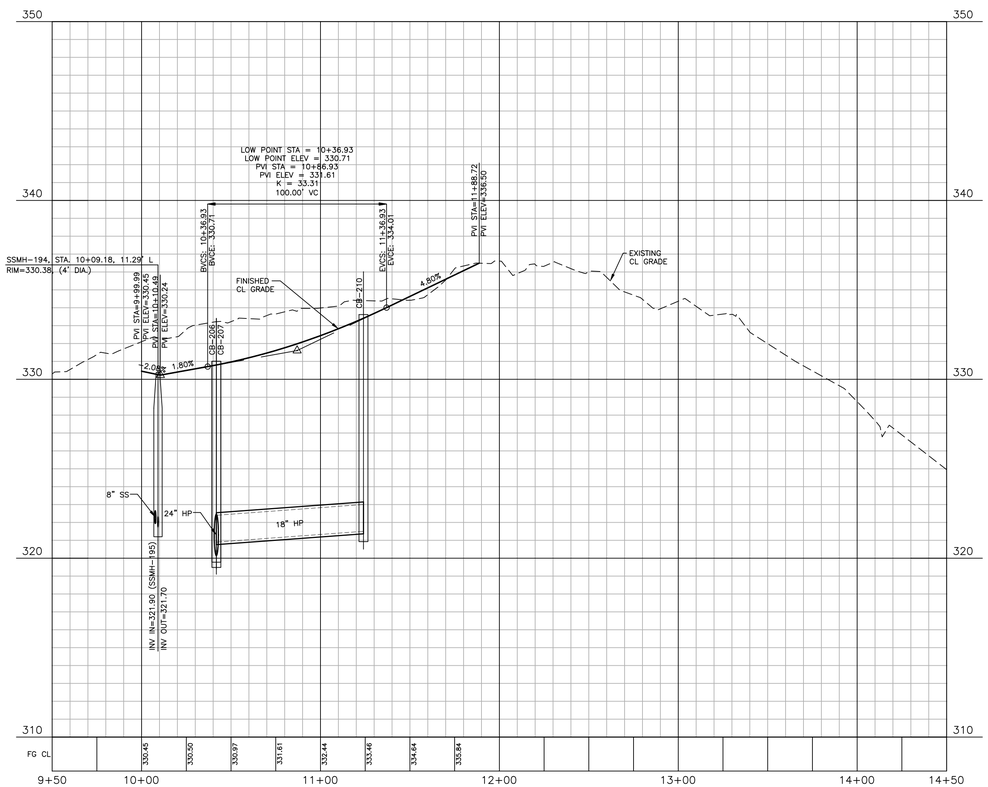


CB-206
STA ???
T/C=331.01
INV IN=320.20 (CB-207)
INV OUT=320.10

CB-207
STA ???
T/C=331.01
INV IN=326.20 (CB-208)
INV IN=320.90 (CB-210)
INV OUT=320.40

CB-210
STA ???
T/C=333.62
INV IN=321.80 (DI-211)
INV OUT=321.50

STREET N



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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 #** _____

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Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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PHONE: 919. 809. 4207

D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
FOR REVIEW PURPOSES ONLY NOT FOR CONSTRUCTION

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P4
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
STREET "N", STA. 9+50 THRU STA. 14+50

C5.22

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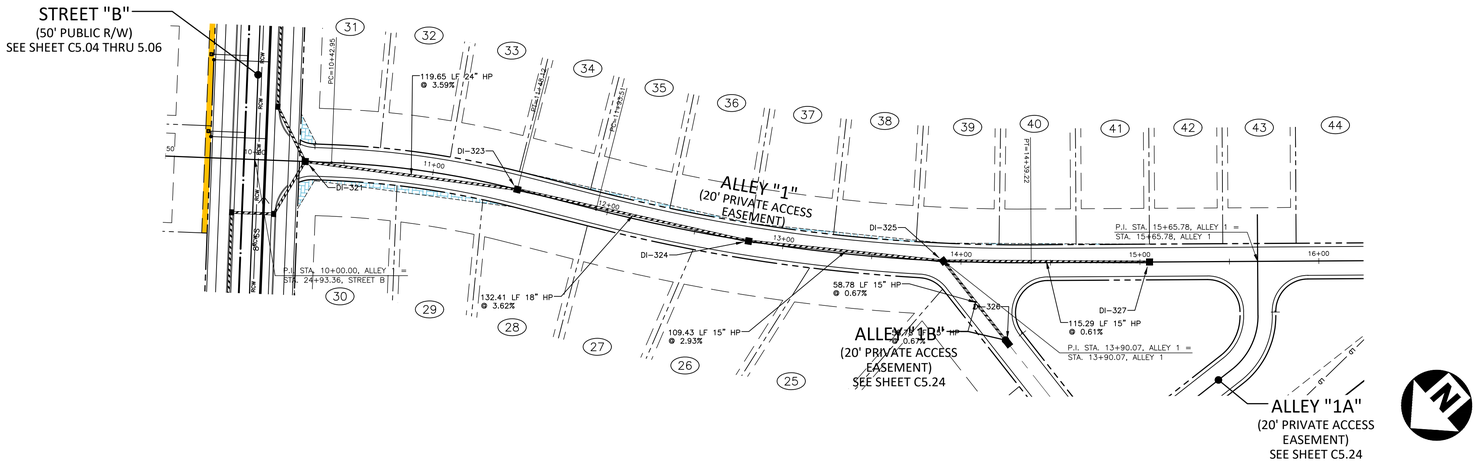


DI-321
STA ???
T/G=327.98
INV IN=313.90 (CB-322)
INV IN=322.90 (DI-323)
INV OUT=313.80

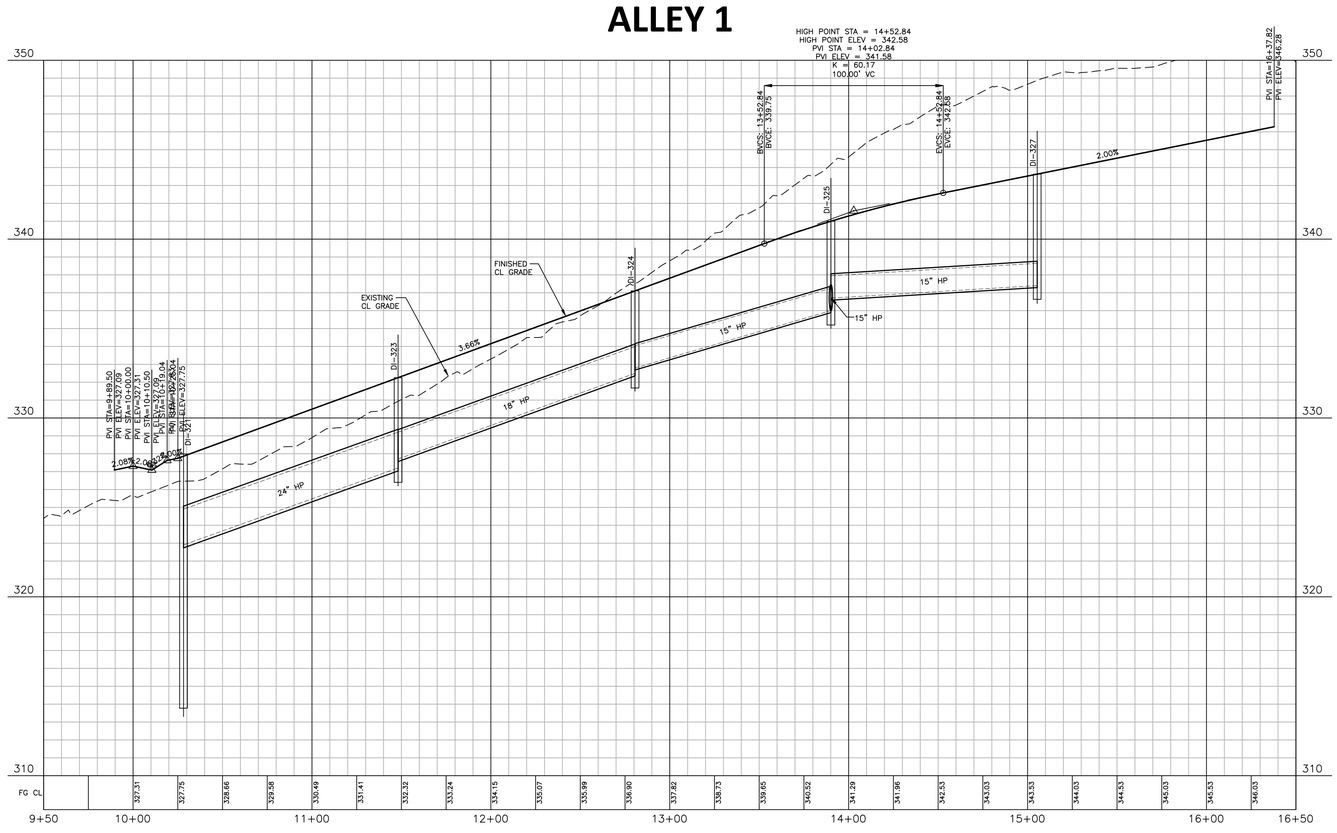
DI-323
STA ???
T/G=332.25
INV IN=327.70 (DI-324)
INV OUT=327.20

DI-324
STA ???
T/G=337.11
INV IN=332.80 (DI-325)
INV OUT=332.50

DI-325
STA ???
T/G=341.00
INV IN=336.70 (DI-327)
INV IN=336.10 (DI-326)
INV OUT=336.00

DI-327
STA ???
T/G=343.63
INV OUT=337.40

ALLEY 1



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-P4.dwg, 2/27/2024 4:25:11 PM, Zach Lee

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D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
PRELIMINARY NOT FOR CONSTRUCTION

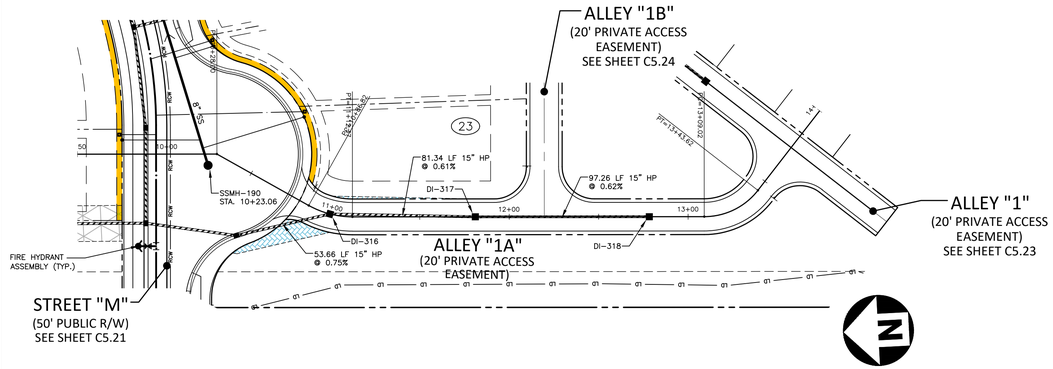
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

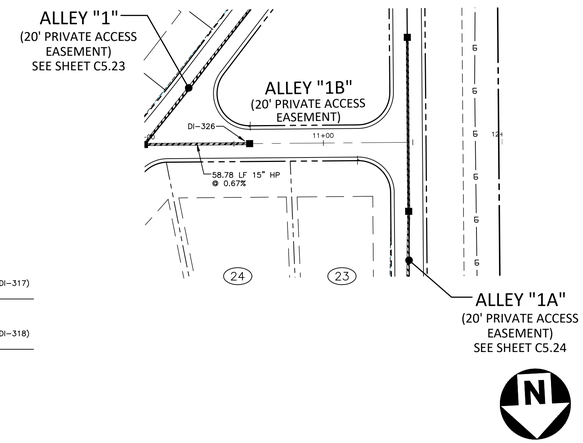
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P4
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLEY "1", STA. 9+50 THRU STA. 16+50

C5.23





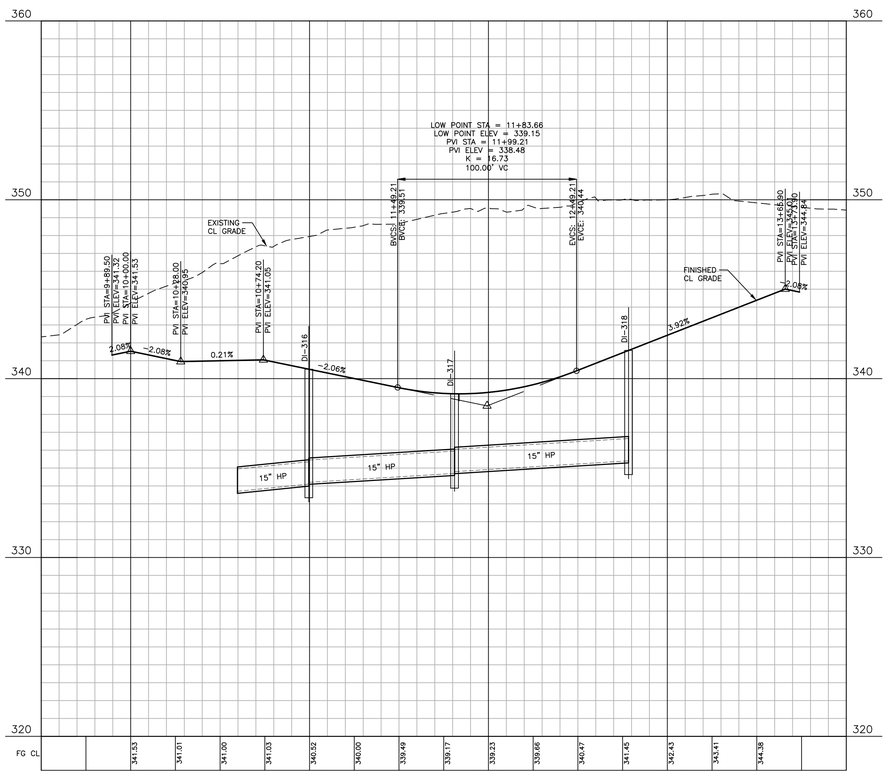
DI-316
STA ???
T/G=340.53
INV IN=334.20 (DI-317)
INV OUT=334.10

DI-317
STA ???
T/G=339.15
INV IN=334.80 (DI-318)
INV OUT=334.70

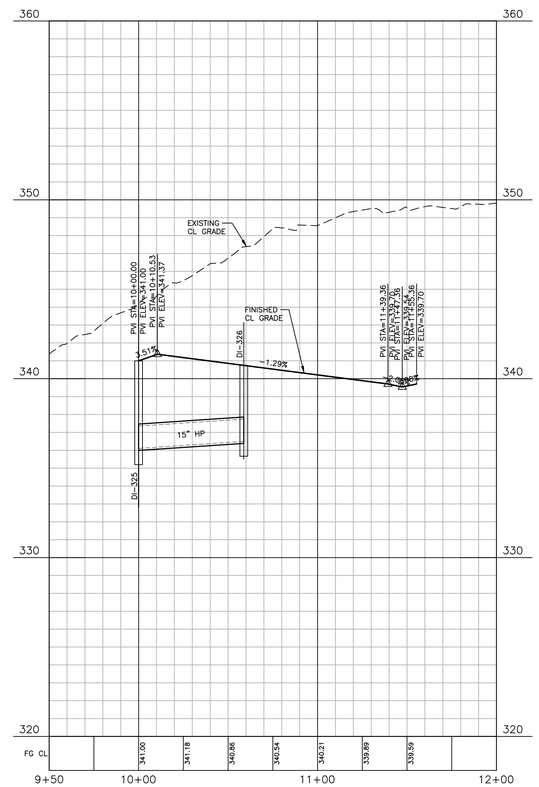
DI-318
STA ???
T/G=341.58
INV OUT=335.40

DI-326
STA ???
T/G=340.75
INV OUT=336.50

ALLEY 1A



ALLEY 1B



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)

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FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

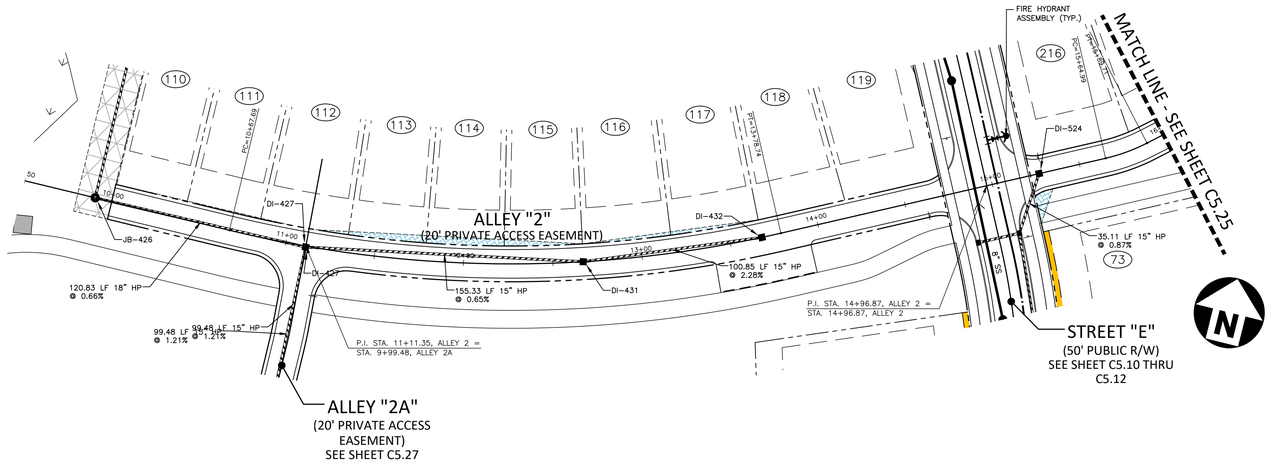
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P4
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLEY "1A", STA. 9+50 THRU STA. 14+00
ALLEY "1B", STA. 9+50 THRU STA. 12+00

C5.24



DI-427
STA ???
T/G=319.99
INV IN=315.60 (DI-431)
INV IN=315.70 (DI-428)
INV OUT=315.30

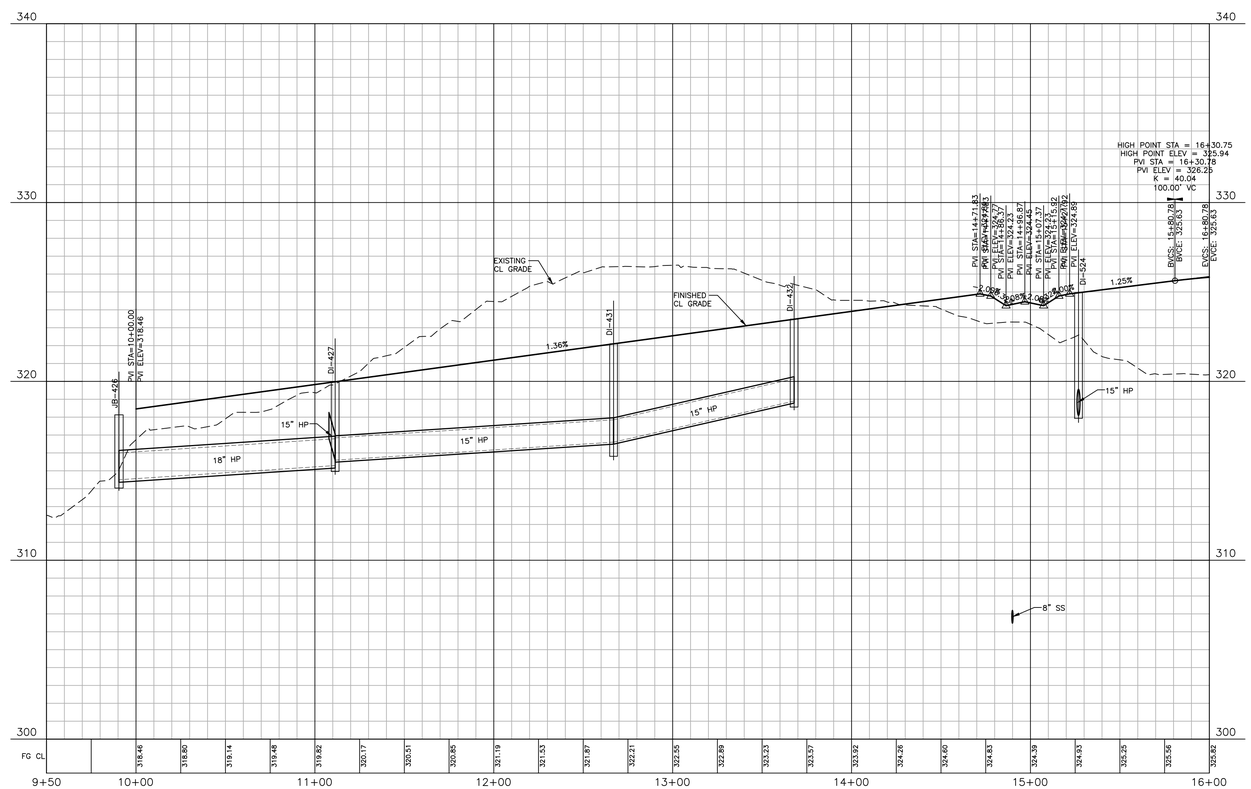
DI-431
STA ???
T/G=322.10
INV IN=316.60 (DI-432)
INV OUT=316.60

DI-432
STA ???
T/G=323.48
INV OUT=318.90

DI-524
STA ???
T/G=324.96
INV OUT=318.20

JB-426
STA ???
RIM=318.13
INV IN=314.50 (DI-427)
INV OUT=314.40

ALLEY 2



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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REVISIONS

NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

CHAMBLEE LAKE

CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

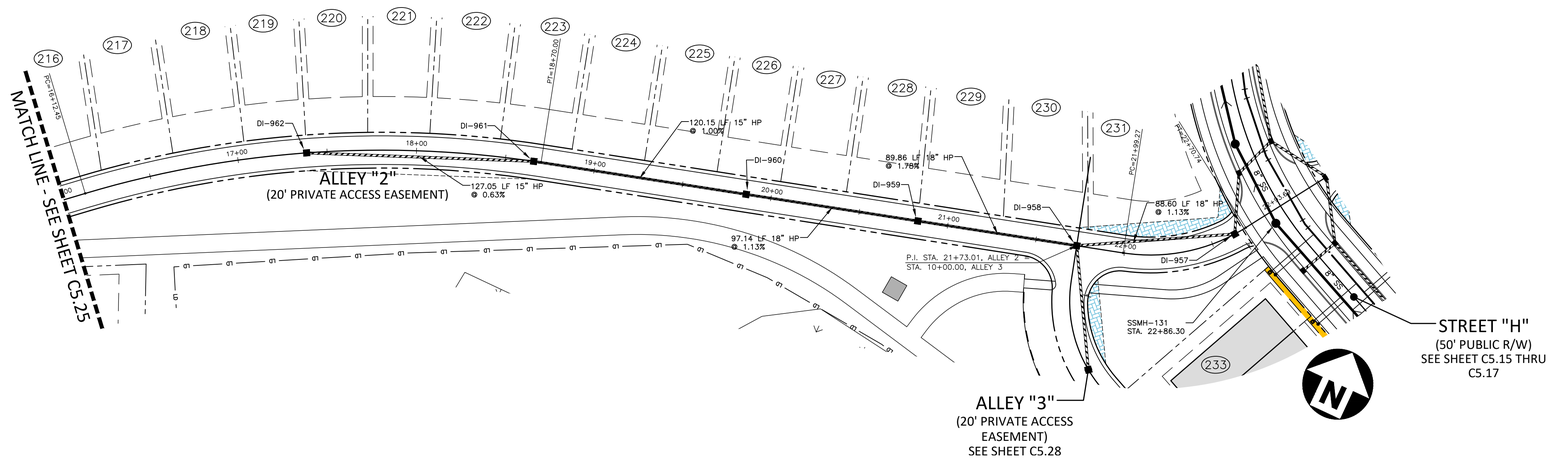
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P4
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE

ALLEY "2", STA. 9+50 THRU STA. 16+00

C5.25



DI-957
STA ???
T/G=318.34
INV IN=310.80 (DI-958)
INV OUT=310.70

DI-958
STA ???
T/G=319.48
INV IN=311.90 (DI-959)
INV IN=311.90 (DI-963)
INV OUT=311.80

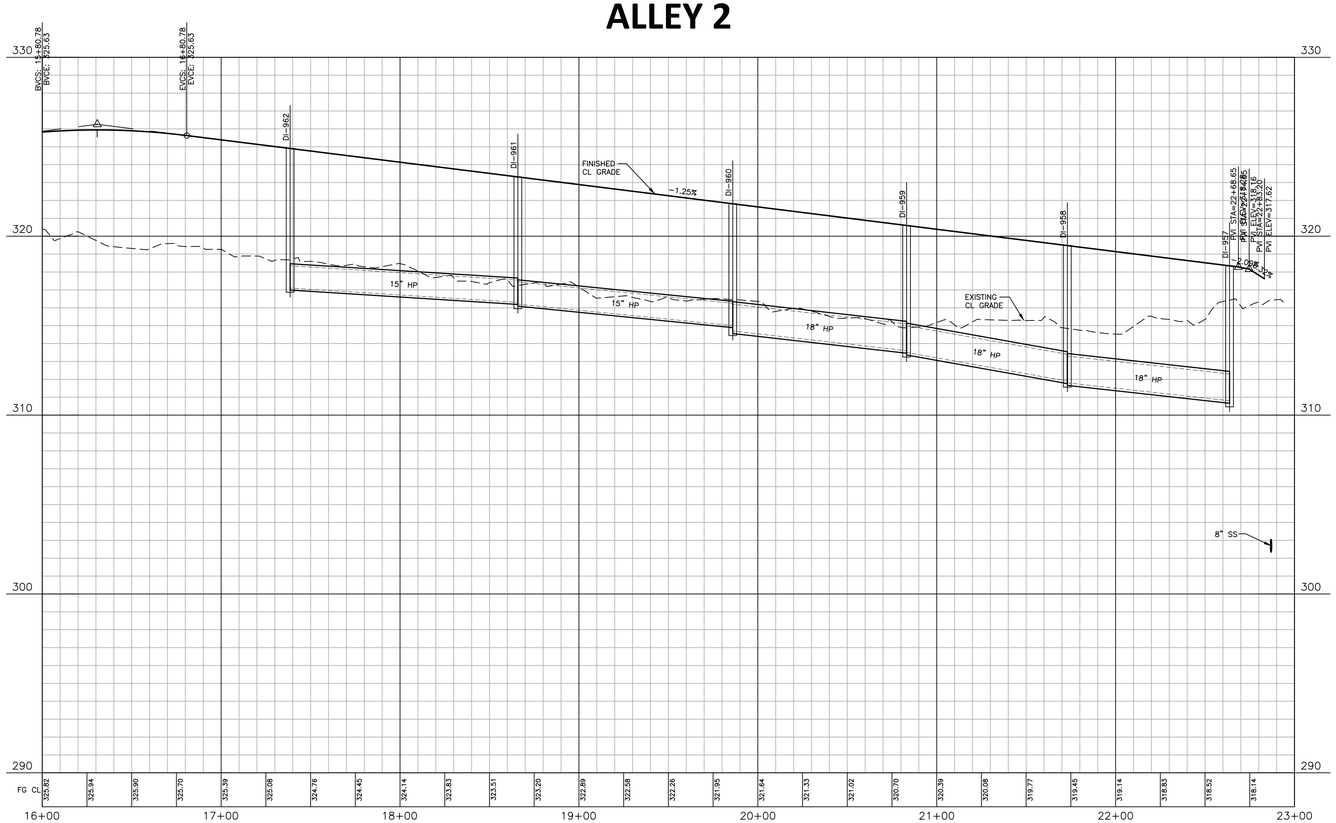
DI-959
STA ???
T/G=320.60
INV IN=313.60 (DI-960)
INV OUT=313.50

DI-960
STA ???
T/G=321.82
INV IN=315.00 (DI-961)
INV OUT=314.70

DI-961
STA ???
T/G=323.32
INV IN=316.30 (DI-962)
INV OUT=316.20

DI-962
STA ???
T/G=324.91
INV OUT=317.10

ALLEY 2



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
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GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
FOR REVIEW NOT FOR CONSTRUCTION

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

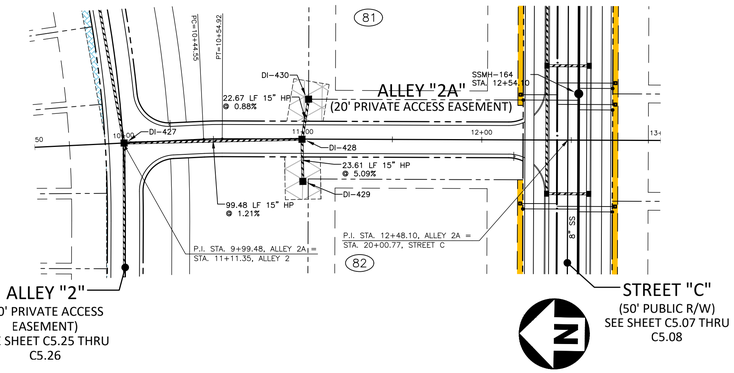
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P4
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

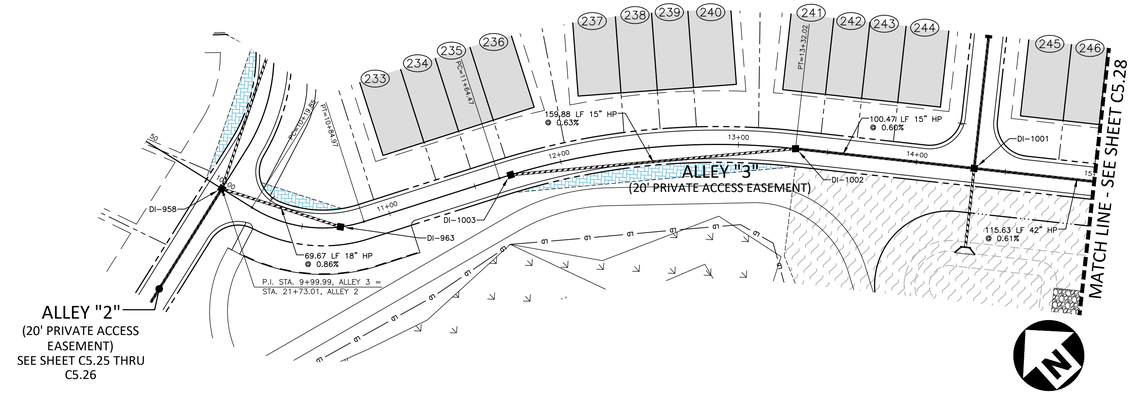
PLAN AND PROFILE
ALLEY "2", STA. 16+00 THRU STA. 23+00

C5.26

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-P4.dwg, 2/27/2024 4:25:23 PM, Zach Lee



DI-428
STA ???
T/G=321.31
INV IN=317.00 (DI-429)
INV IN=317.00 (DI-430)
INV OUT=316.90



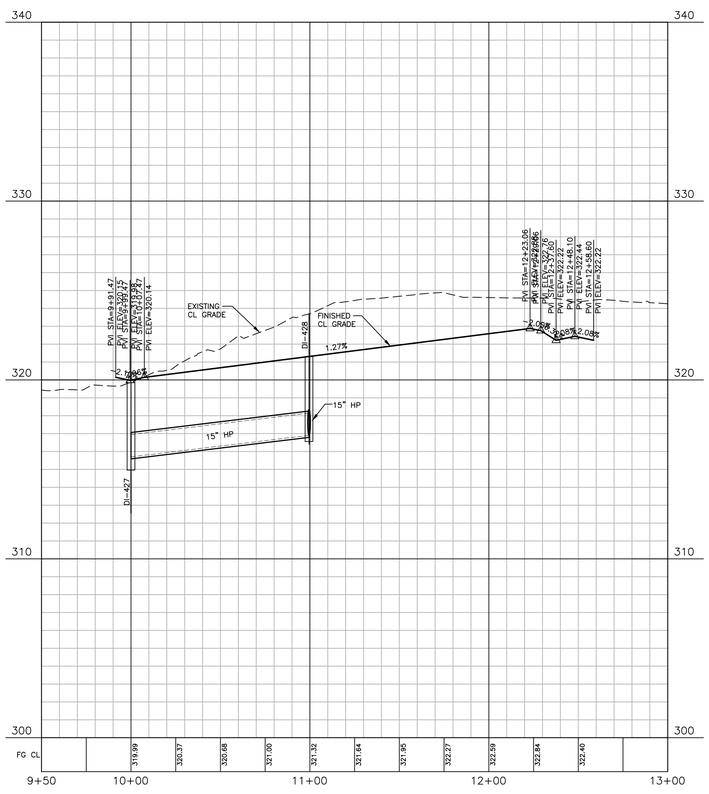
DI-963
STA ???
T/G=321.74
INV OUT=312.50

DI-1001
STA ???
T/G=323.80
INV IN=311.10 (DI-1004)
INV IN=311.20 (DI-1028)
INV IN=318.20 (DI-1002)
INV OUT=311.00

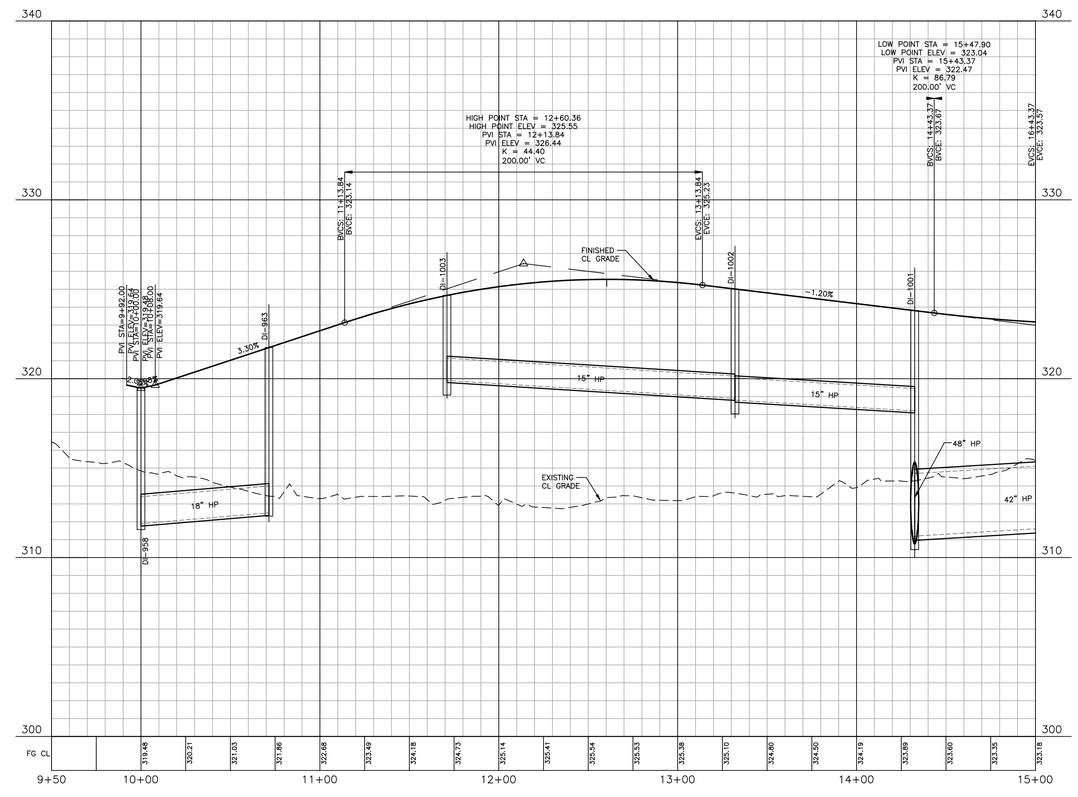
DI-1002
STA ???
T/G=325.01
INV IN=318.90 (DI-1003)
INV OUT=318.80

DI-1003
STA ???
T/G=324.66
INV OUT=319.90

ALLEY 2A



ALLEY 3



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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license number: C-0293, C-187

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D.R. HORTON, INC.
7208 FALLS OF NEUSE ROAD, SUITE 201
RALEIGH, NC 27615
PHONE: 919. 809. 4207

D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
PRELIMINARY NOT FOR CONSTRUCTION

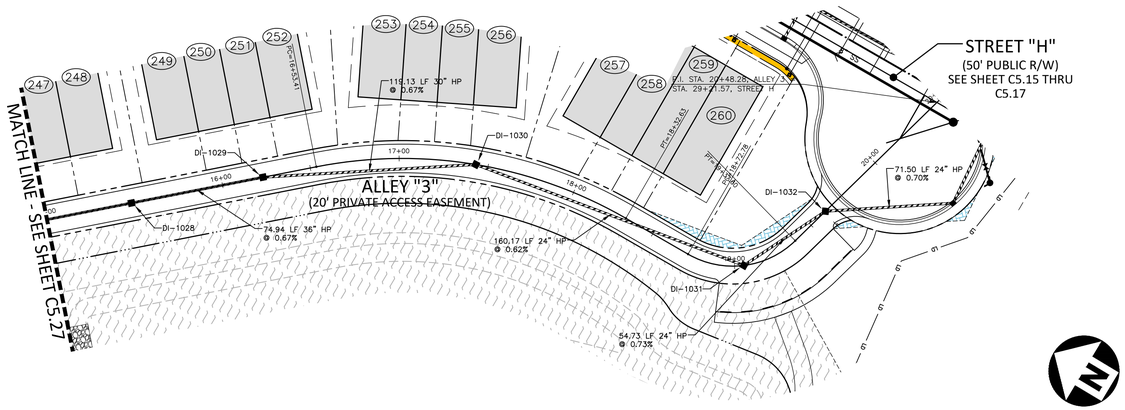
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P4
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLEY "2A", STA. 9+50 THRU STA. 13+00
ALLEY "3", STA. 9+50 THRU STA. 15+00

C5.27



DI-1001
STA ???
T/G=323.80
INV IN=311.10 (DI-1004)
INV IN=311.20 (DI-1028)
INV IN=318.20 (DI-1002)
INV OUT=311.00

DI-1028
STA ???
T/G=323.04
INV IN=312.00 (DI-1029)
INV OUT=311.90

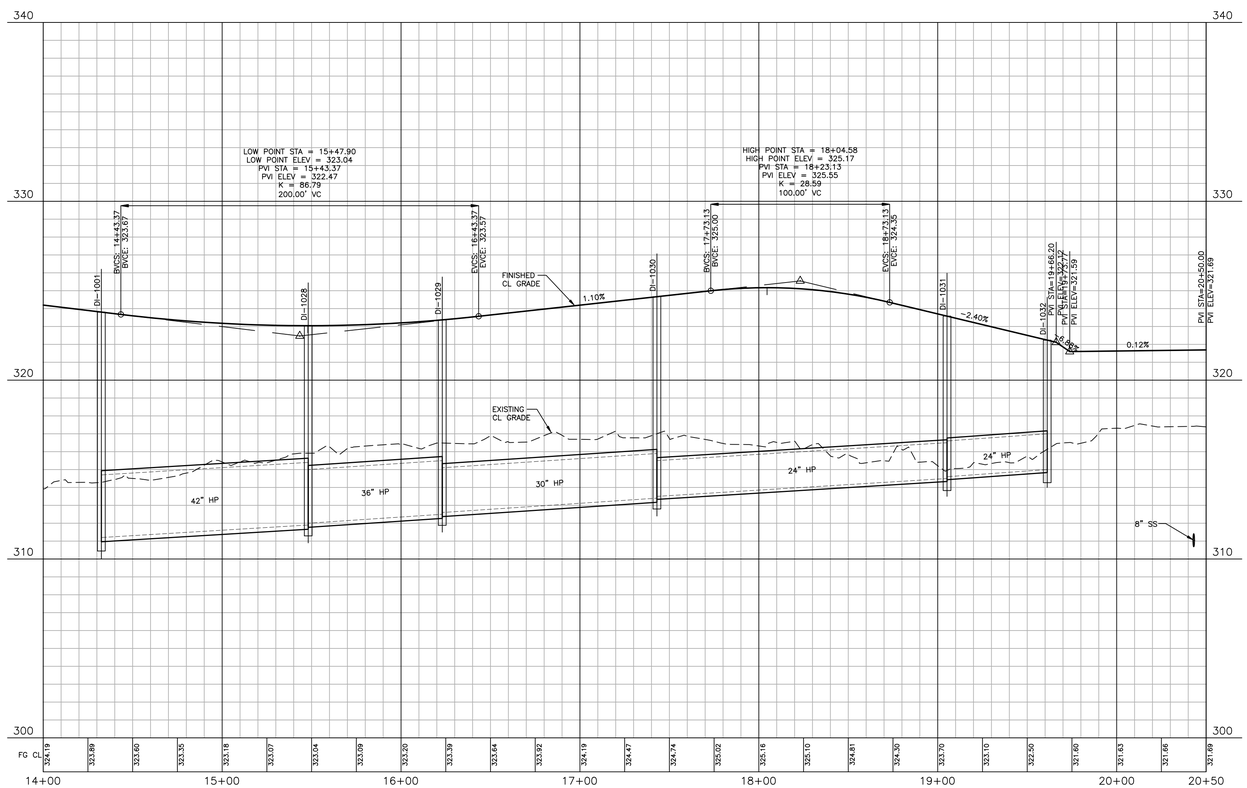
DI-1029
STA ???
T/G=323.37
INV IN=312.60 (DI-1030)
INV OUT=312.50

DI-1030
STA ???
T/G=324.66
INV IN=313.50 (DI-1031)
INV OUT=313.40

DI-1031
STA ???
T/G=323.58
INV IN=314.60 (DI-1032)
INV OUT=314.50

DI-1032
STA ???
T/G=322.24
INV IN=315.10 (CB-1033)
INV OUT=315.00

ALLEY 3



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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 #** _____

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FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-P4.dwg, 2/27/2024 4:25:32 PM, Zach Lee

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D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

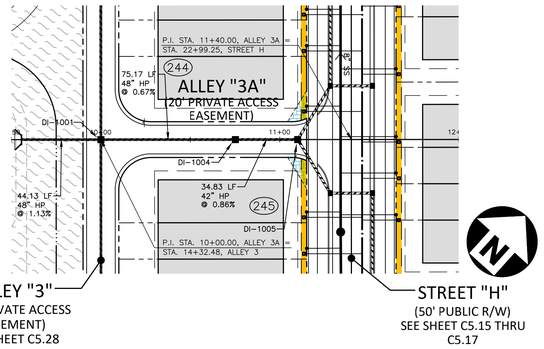
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P4
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLEY "3", STA. 14+00 THRU STA. 20+50

C5.28



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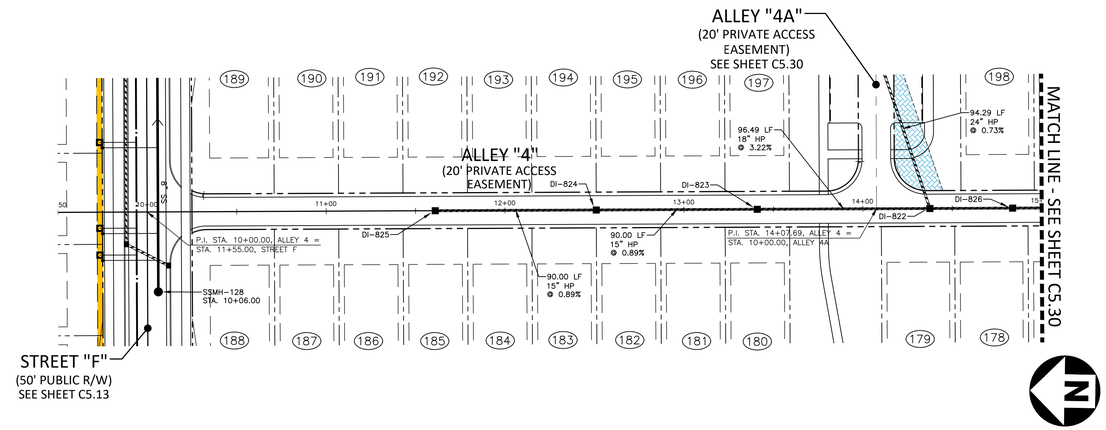
STA ???
T/G=323.80
INV IN=311.10 (DI-1004)
INV IN=311.20 (DI-1028)
INV IN=318.20 (DI-1002)
INV OUT=311.00

DI-1004
STA ???
T/G=322.67
INV IN=311.70 (DI-1005)
INV OUT=311.60

DI-1005
STA ???
T/G=322.95
INV IN=312.10 (CB-1010)
INV IN=317.40 (CB-1006)
INV OUT=312.00



DI-822
STA ???
T/G=319.07
INV IN=312.50 (DI-826)
INV IN=312.40 (DI-823)
INV OUT=311.70

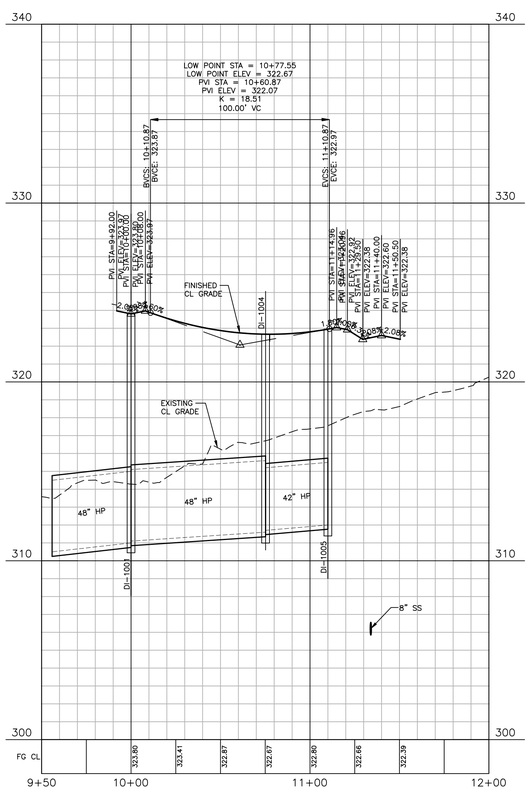
DI-823
STA ???
T/G=319.76
INV IN=315.50 (DI-824)
INV OUT=315.50

DI-824
STA ???
T/G=320.75
INV IN=316.40 (DI-825)
INV OUT=316.30

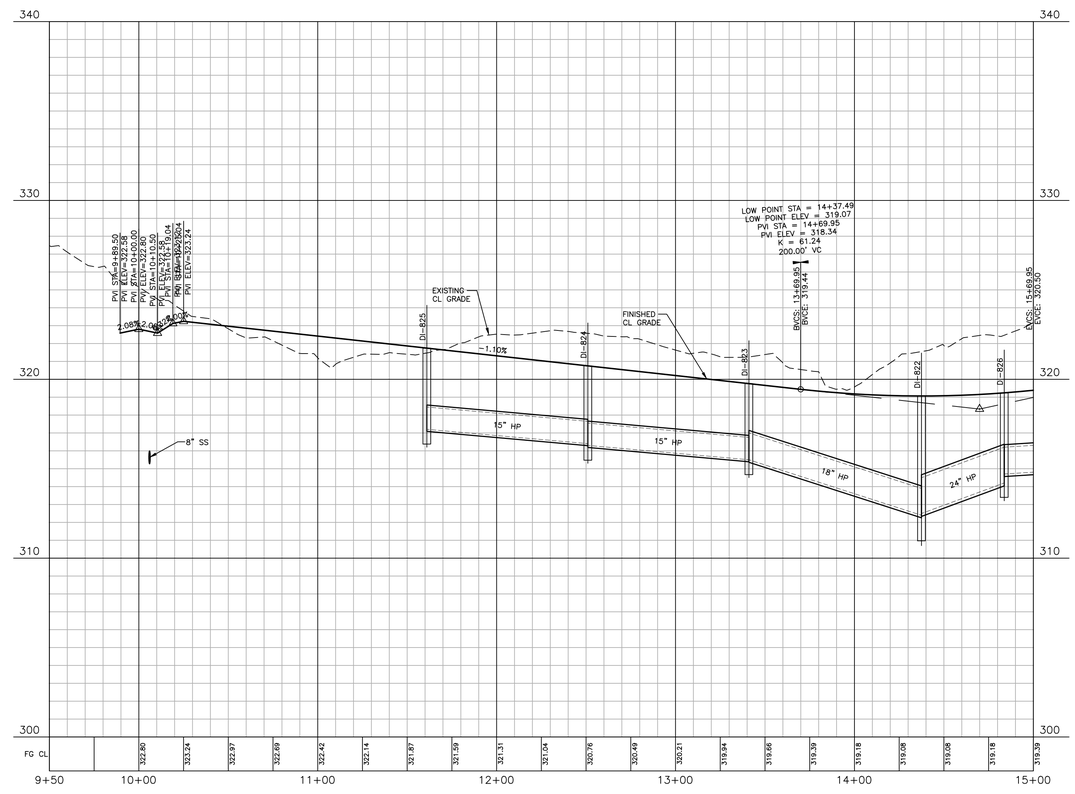
DI-825
STA ???
T/G=321.74
INV OUT=317.20

DI-826
STA ???
T/G=319.24
INV IN=314.70 (DI-827)
INV OUT=314.20

ALLEY 3A



ALLEY 4



EASEMENT LEGEND

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- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
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GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

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REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
FOR REVIEW AND COORDINATION NOT FOR CONSTRUCTION

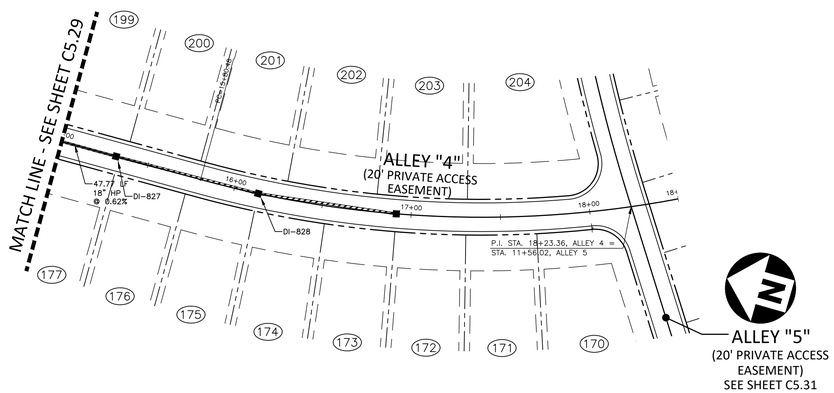
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P5
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

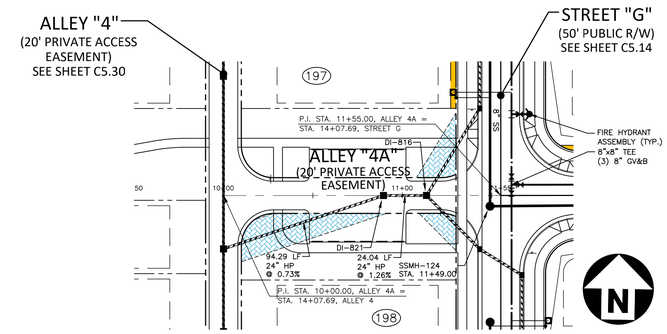
PLAN AND PROFILE
ALLEY "3A", STA. 9+50 THRU STA. 12+00
ALLEY "4", STA. 9+50 THRU STA. 15+00

C5.29



DI-827
STA ???
T/G=319.79
INV IN=315.10 (DI-828)
INV OUT=315.00

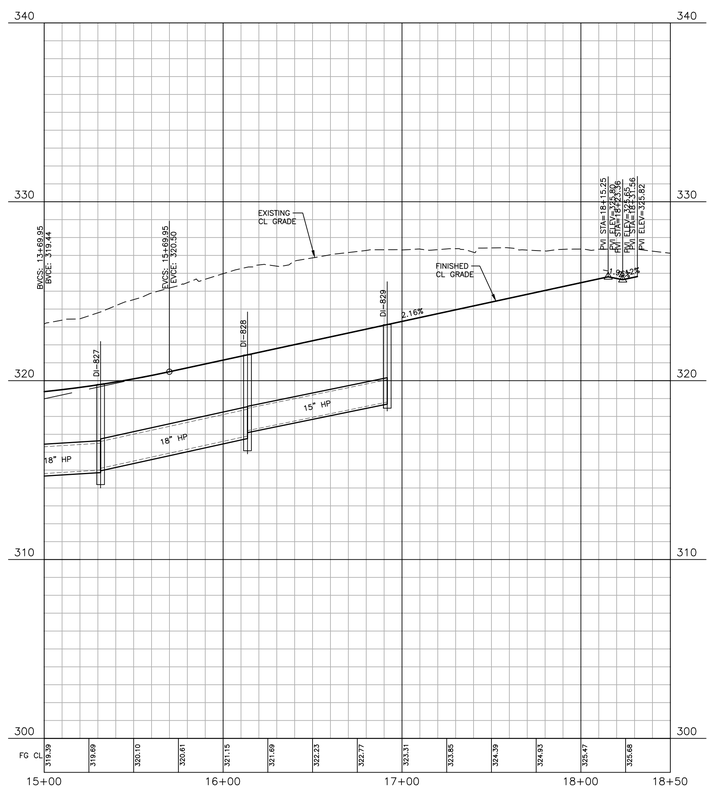
DI-828
STA ???
T/G=321.44
INV IN=317.20 (DI-829)
INV OUT=316.90



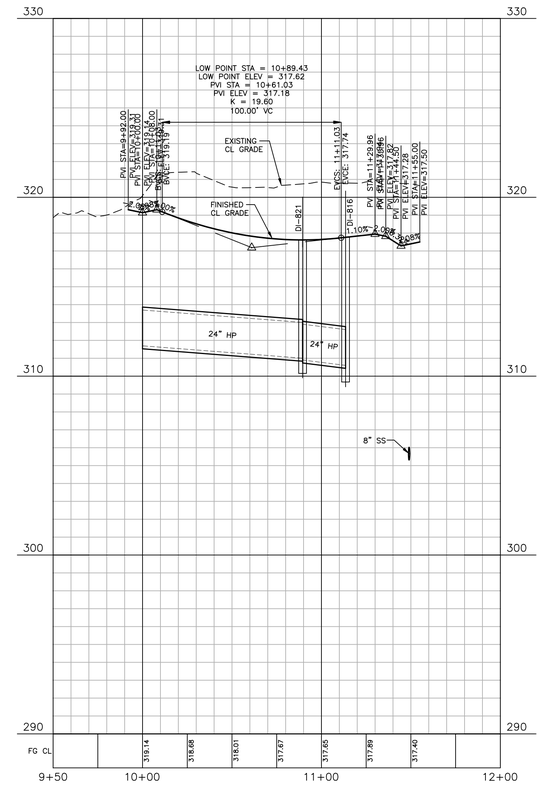
DI-816
STA ???
T/G=317.76
INV IN=310.60 (DI-821)
INV IN=312.40 (CB-817)
INV OUT=310.40

DI-821
STA ???
T/G=317.62
INV IN=311.00 (DI-822)
INV OUT=310.90

ALLEY 4



ALLEY 4A



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

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M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-P5.dwg, 2/27/2024 4:25:58 PM, Zach Lee

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D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

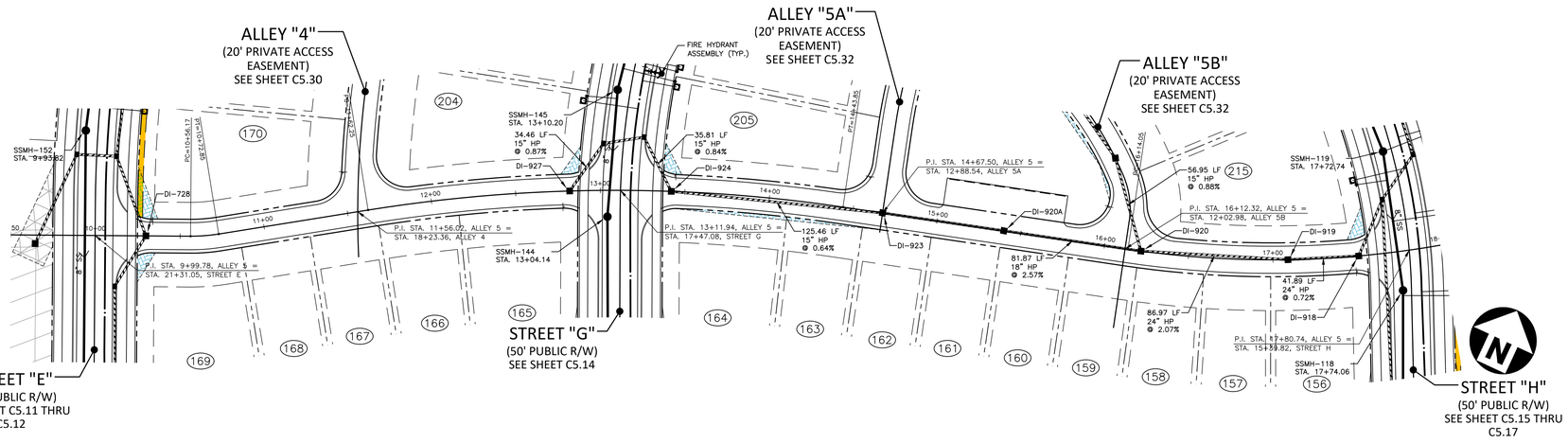
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P5
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLEY "4", STA. 15+00 THRU STA. 18+50
ALLEY "4A", STA. 9+50 THRU STA. 12+00

C5.30



DI-728
STA ???
T/G=324.73
INV IN=317.50 (CB-729)
INV OUT=317.40

DI-918
STA ???
T/G=314.88
INV IN=308.70 (DI-919)
INV OUT=308.60

DI-919
STA ???
T/G=314.51
INV IN=309.10 (DI-920)
INV OUT=309.00

DI-920
STA ???
T/G=316.42
INV IN=311.40 (DI-920A)
INV IN=311.70 (DI-921)
INV OUT=310.90

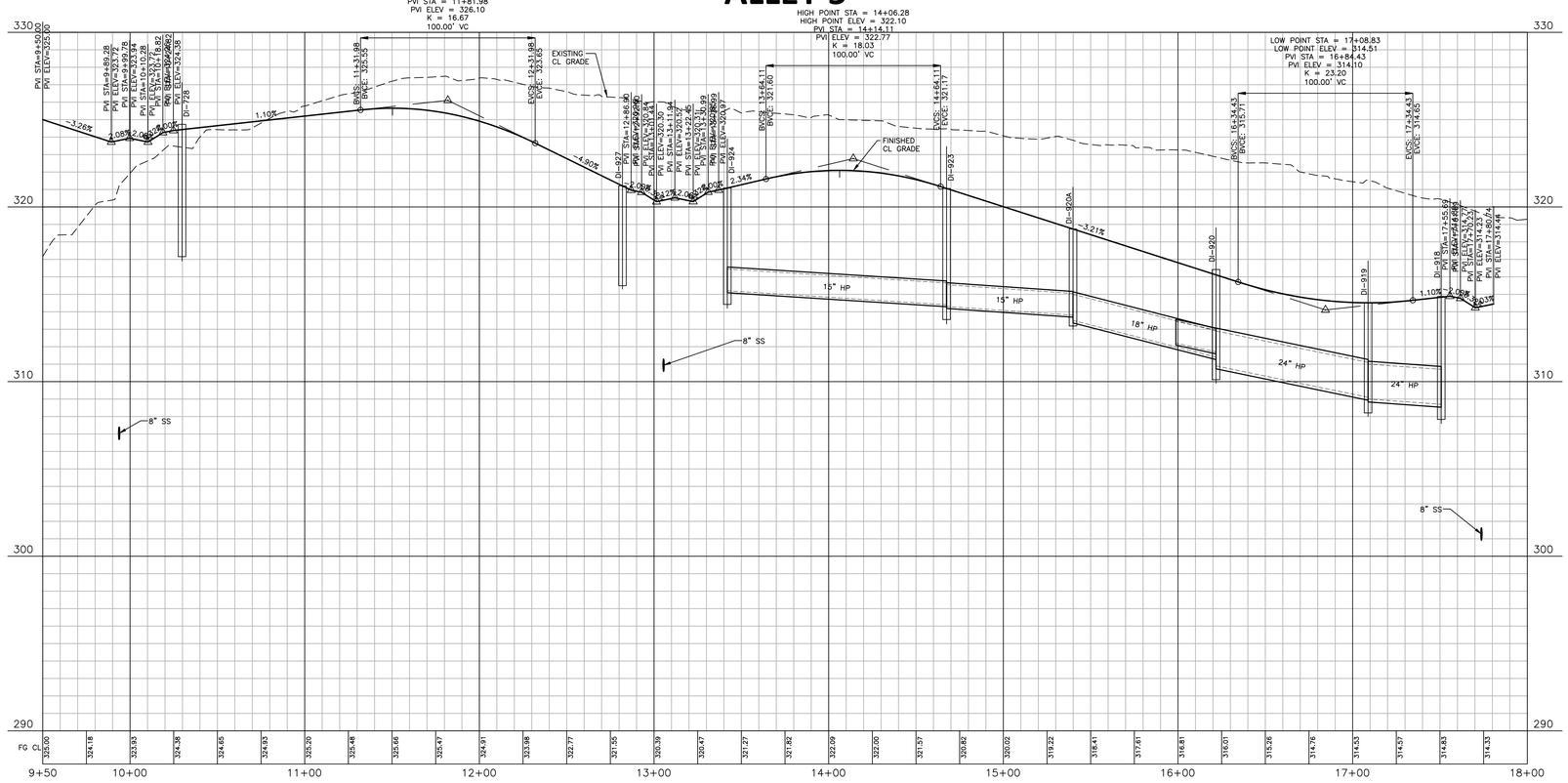
DI-920A
STA ???
T/G=318.74
INV IN=313.80 (DI-923)
INV OUT=313.50

DI-923
STA ???
T/G=321.06
INV IN=314.40 (DI-924)
INV OUT=314.30

DI-924
STA ???
T/G=321.08
INV IN=315.30 (CB-925)
INV OUT=315.20

DI-927
STA ???
T/G=321.21
INV OUT=316.30

ALLEY 5



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
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GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

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D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

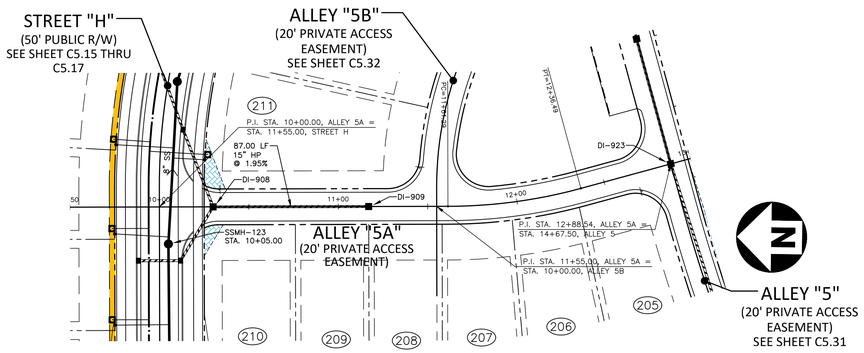
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

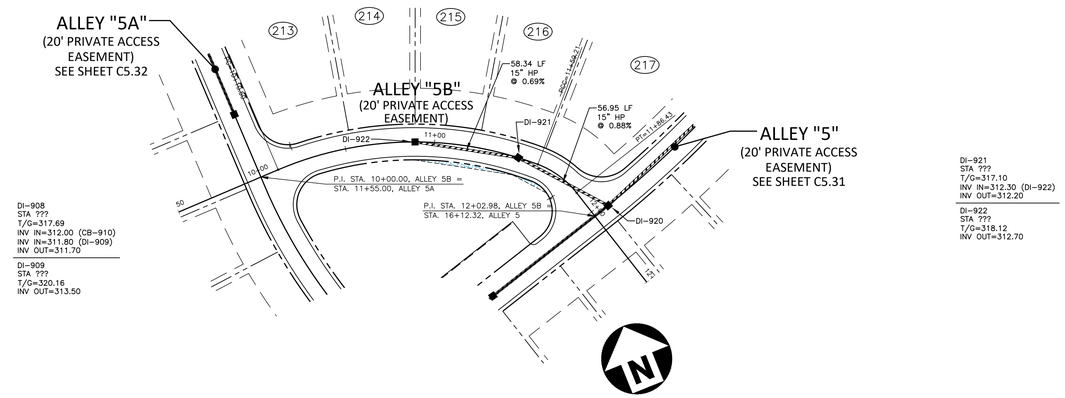
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P5
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLE Y "5", STA. 9+50 THRU STA. 18+00

C5.31





DI-908
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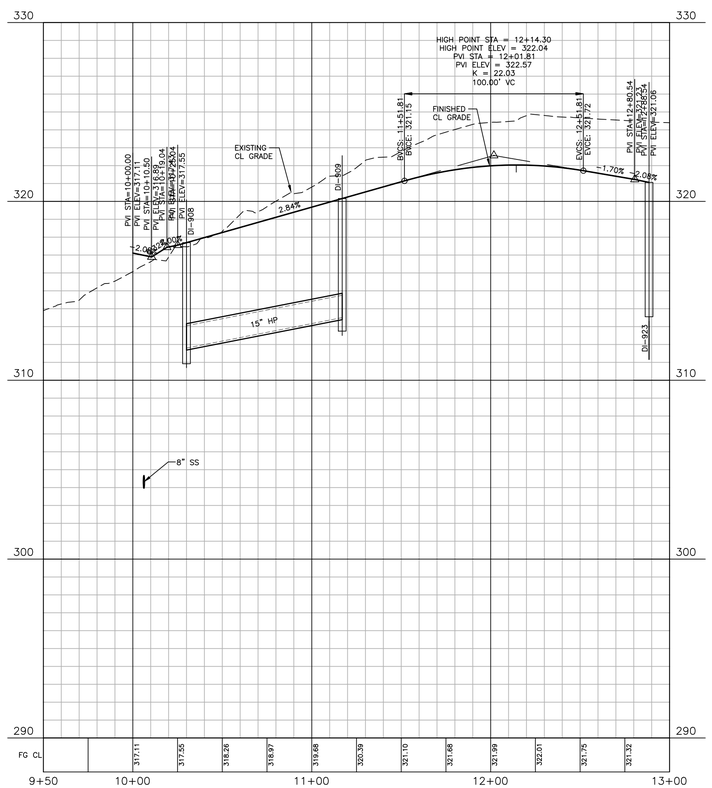
INV IN=311.80 (DI-909)
INV OUT=311.70

DI-909
STA ???
T/G=320.16
INV OUT=313.50

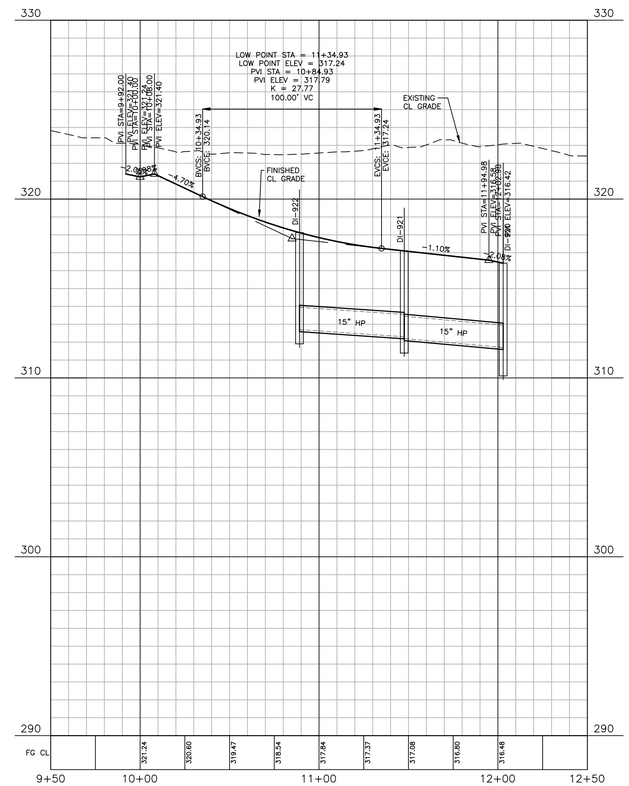
DI-921
STA ???
T/G=317.10
INV IN=312.30 (DI-922)
INV OUT=312.20

DI-922
STA ???
T/G=318.12
INV OUT=312.70

ALLEY 5A



ALLEY 5B



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
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GRAPHIC SCALE
0 20 40 80
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SITE PERMITTING APPROVAL

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REVISIONS
NO. DATE

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FOR REVIEW AND COORDINATION NOT FOR CONSTRUCTION

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CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

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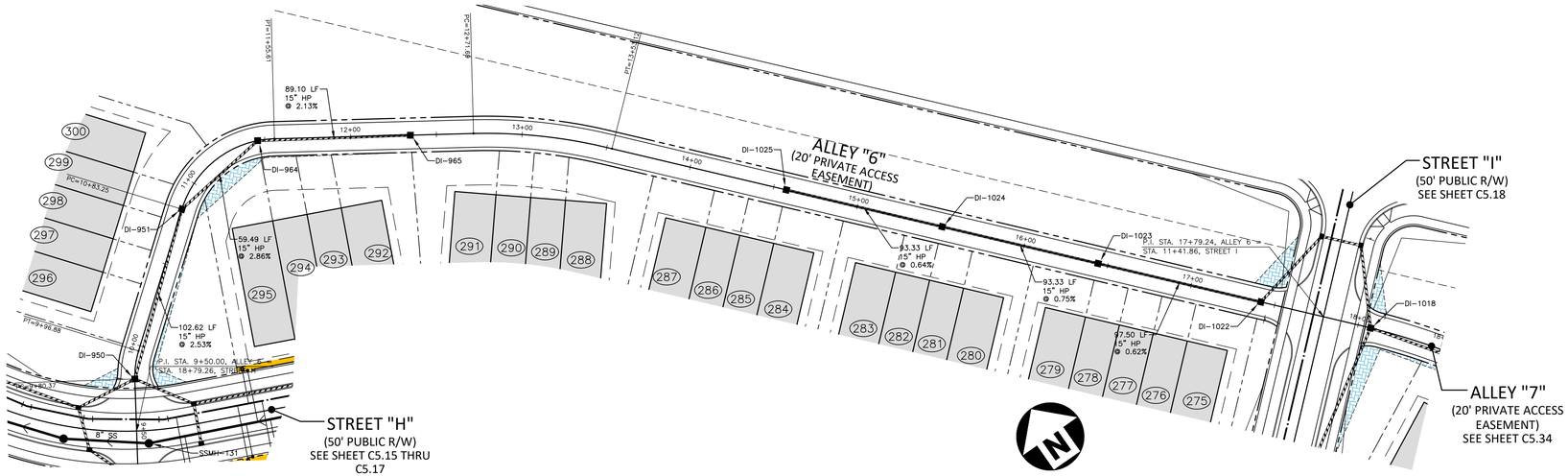
FILENAME	DRH22004-P5
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLEY "5A", STA. 9+50 THRU STA. 13+00
ALLEY "5B", STA. 9+50 THRU STA. 12+50

C5.32



DI-950
STA ???
T/G=318.41
INV IN=310.90 (CB-952)
INV IN=313.20 (DI-951)
INV OUT=310.80

DI-951
STA ???
T/G=320.92
INV IN=315.90 (DI-964)
INV OUT=315.80

DI-964
STA ???
T/G=322.45
INV IN=317.70 (DI-965)
INV OUT=317.60

DI-965
STA ???
T/G=324.45
INV OUT=319.60

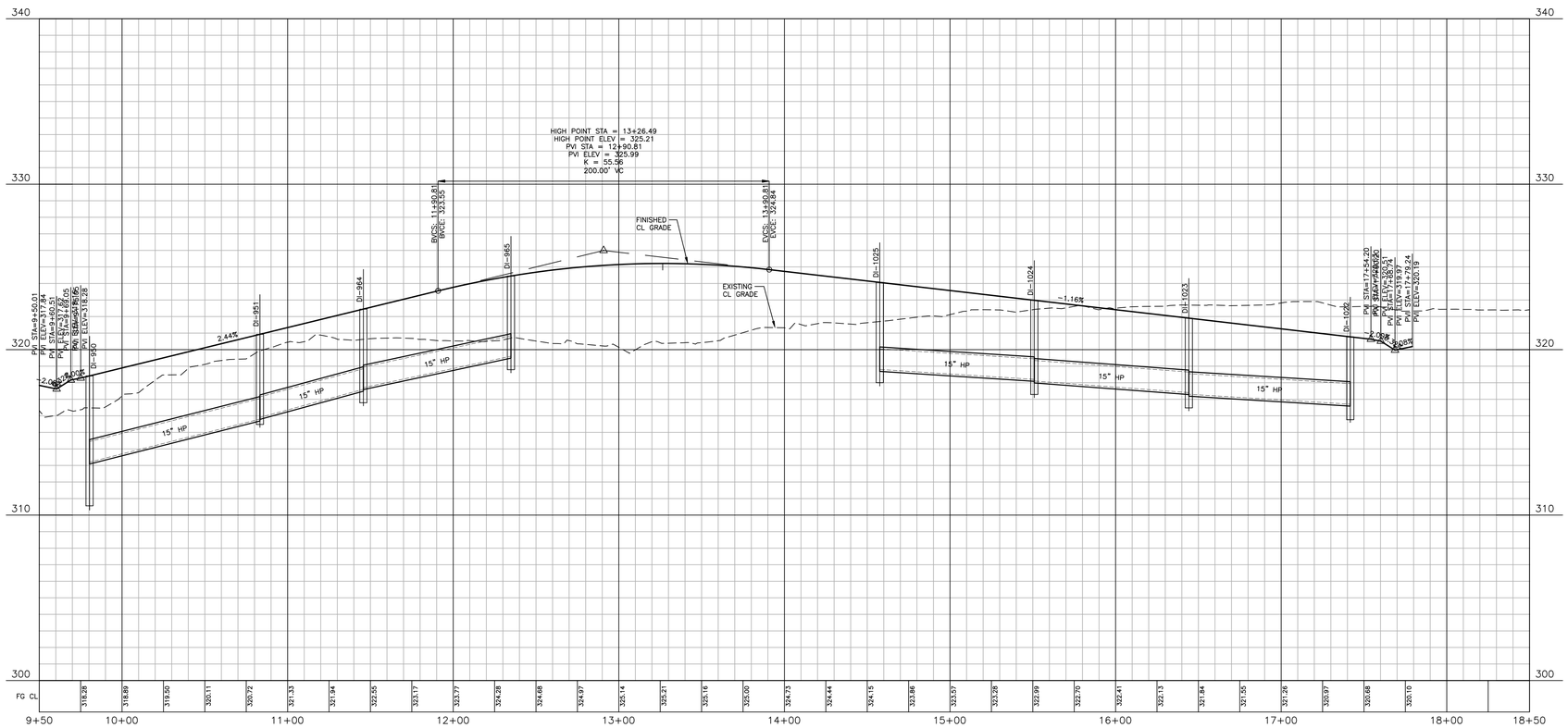
DI-1022
STA ???
T/G=320.77
INV IN=316.70 (DI-1023)
INV OUT=316.60

DI-1023
STA ???
T/G=321.90
INV IN=317.40 (DI-1024)
INV OUT=317.30

DI-1024
STA ???
T/G=322.98
INV IN=318.20 (DI-1025)
INV OUT=318.10

DI-1025
STA ???
T/G=324.06
INV OUT=318.80

ALLEY 6



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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 #** _____

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By: _____ Date: _____
Town Engineer
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By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\DRH\DRH22004\6a-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-P5.dwg, 2/27/2024 4:26:10 PM, Zach Lee

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RALEIGH, NC 27615
PHONE: 919. 809. 4207

D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER BRIAN K. BARKER
PRELIMINARY NOT FOR CONSTRUCTION

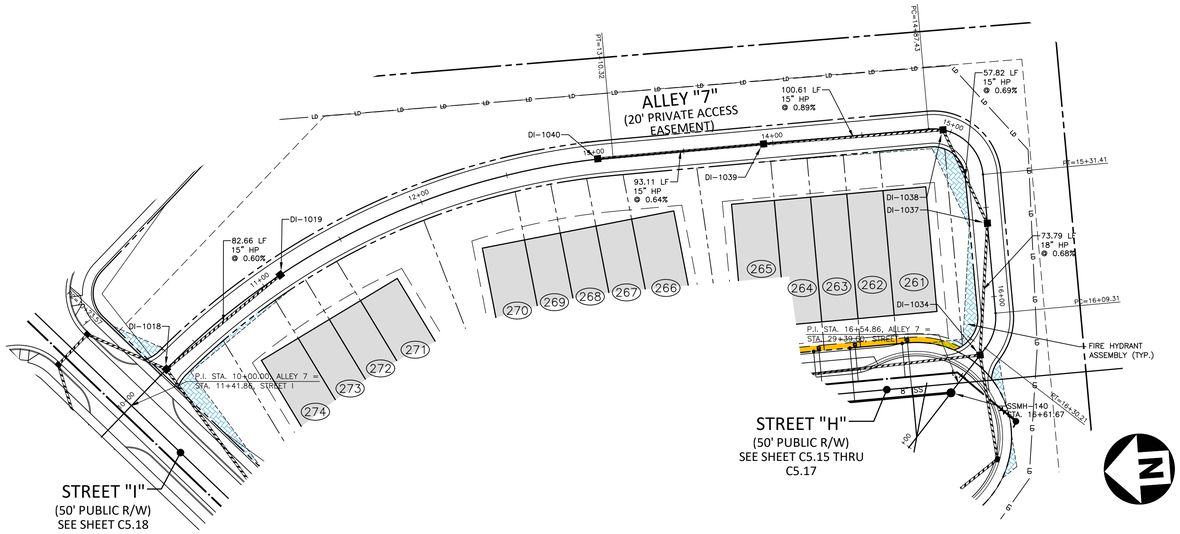
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P5
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLEY "6", STA. 9+50 THRU STA. 18+50

C5.33



DI-1018
STA ???
T/G=320.77
INV IN=315.50 (CB-1020)
INV IN=316.00 (DI-1019)
INV OUT=315.40

DI-1019
STA ???
T/G=324.34
INV OUT=316.50

DI-1034
STA ???
T/G=321.81
INV IN=316.20 (DI-1037)
INV IN=316.20 (CB-1035)
INV OUT=316.10

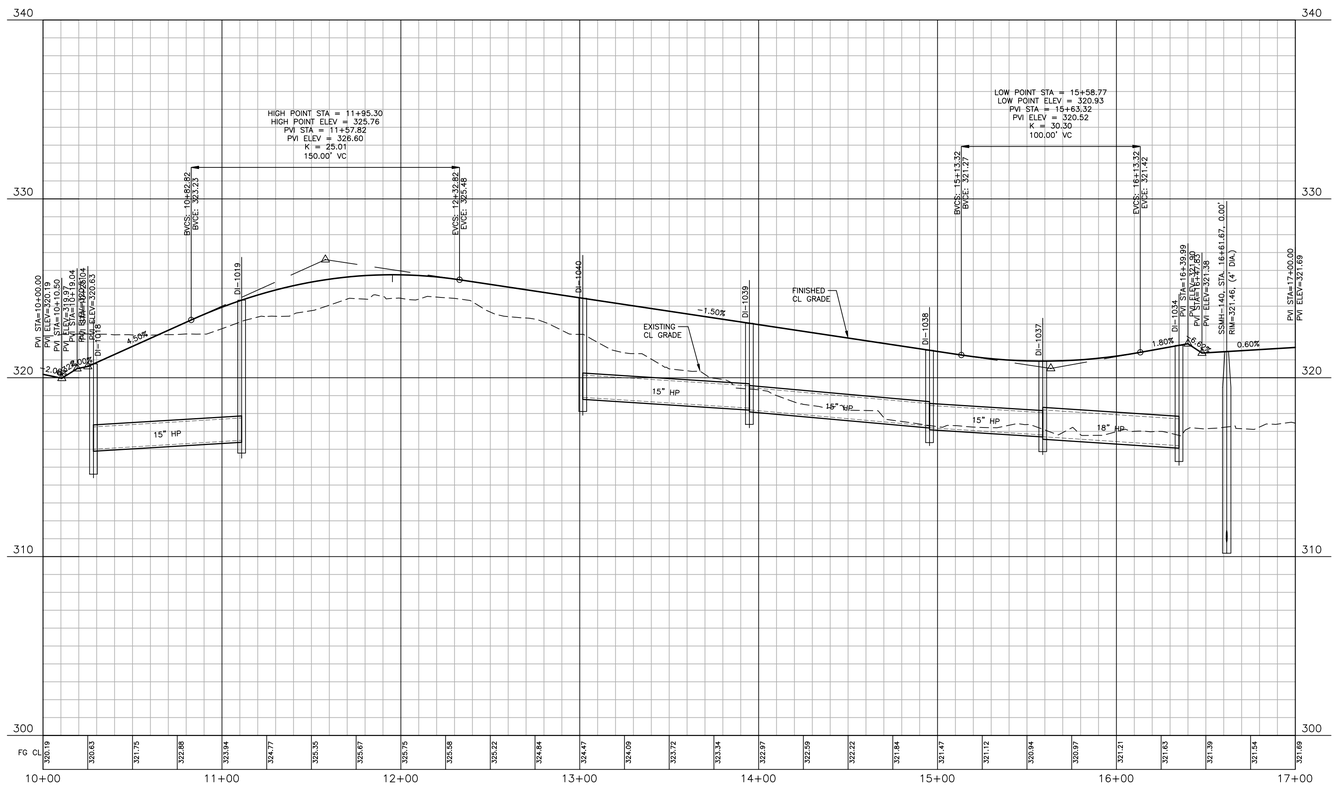
DI-1037
STA ???
T/G=320.93
INV IN=316.80 (DI-1038)
INV OUT=316.70

DI-1038
STA ???
T/G=321.54
INV IN=317.30 (DI-1039)
INV OUT=317.20

DI-1039
STA ???
T/G=323.05
INV IN=318.30 (DI-1040)
INV OUT=318.20

DI-1040
STA ???
T/G=324.45
INV OUT=318.90

ALLEY 7



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

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By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-P5.dwg, 2/27/2024 4:26:13 PM, Zach Lee

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D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

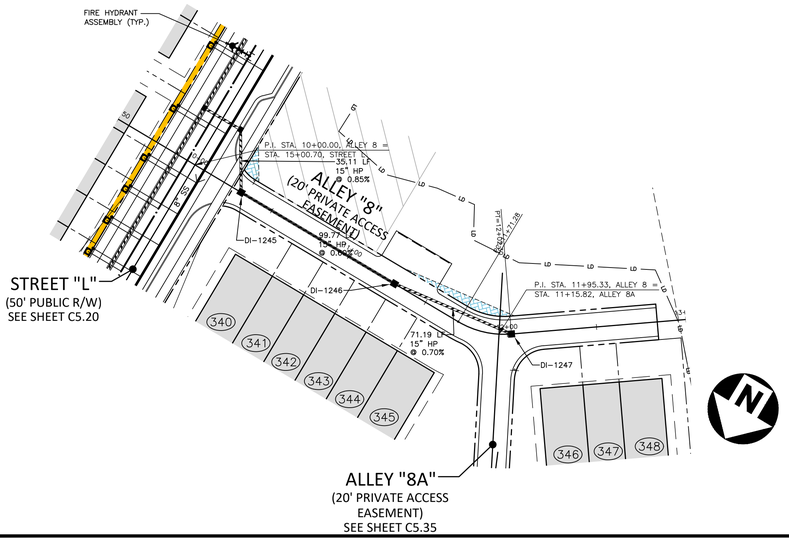
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P5
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLEY "7", STA. 10+00 THRU STA. 17+00

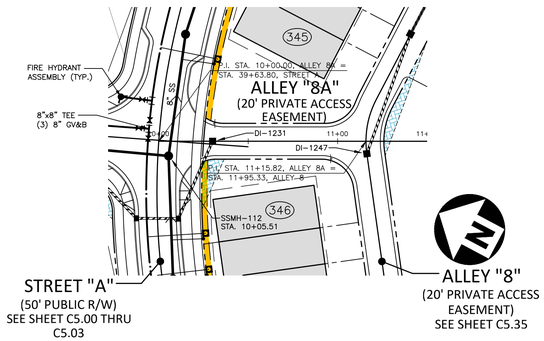
C5.34



DI-1245
STA ???
T/G=307.80
INV IN=303.20 (DI-1246)
INV OUT=303.10

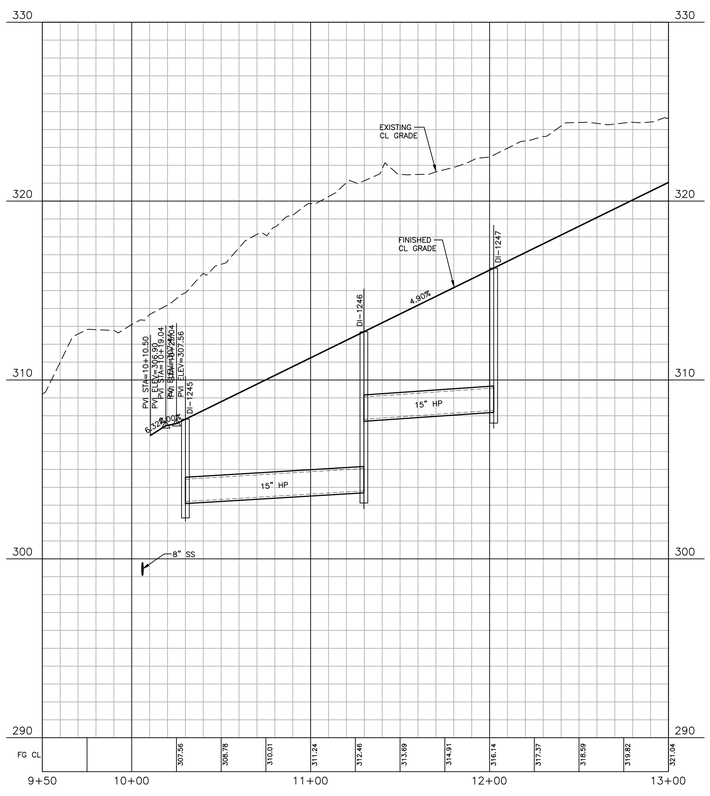
DI-1246
STA ???
T/G=312.70
INV IN=307.80 (DI-1247)
INV OUT=303.80

DI-1247
STA ???
T/G=316.25
INV OUT=308.30

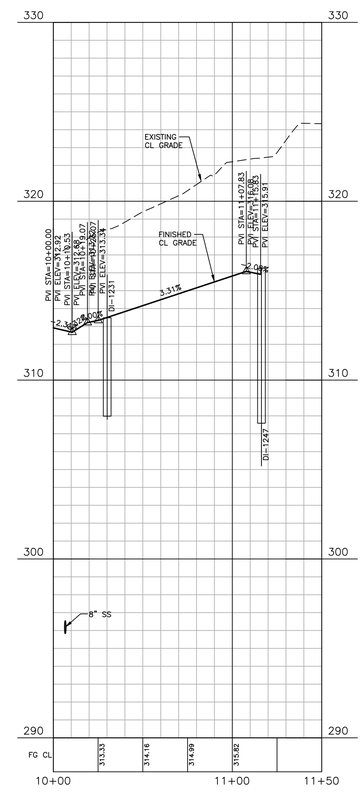


DI-1231
STA ???
T/G=313.49
INV OUT=308.80

ALLEY 8



ALLEY 8A



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-P5.dwg, 2/27/2024 4:25:19 PM, Zach Lee

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D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

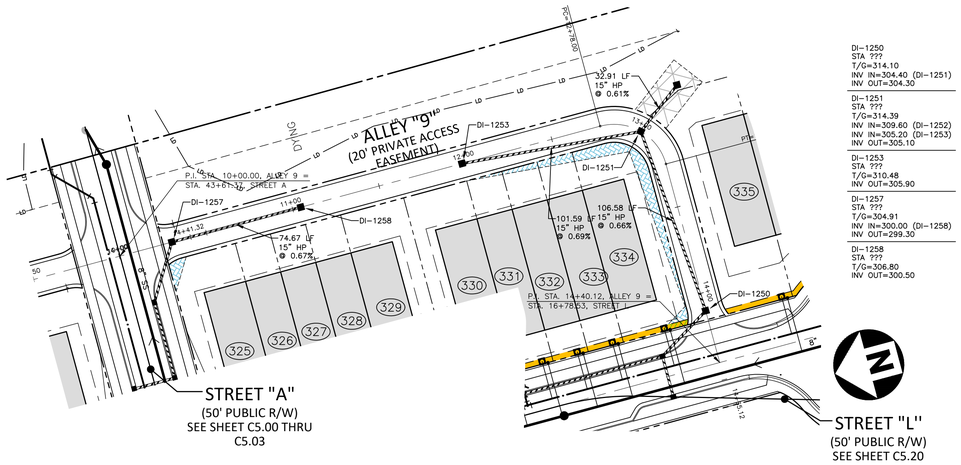
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P5
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLEY "8", STA. 9+50 THRU STA. 13+00
ALLEY "8A", STA. 10+00 THRU STA. 11+50

C5.35



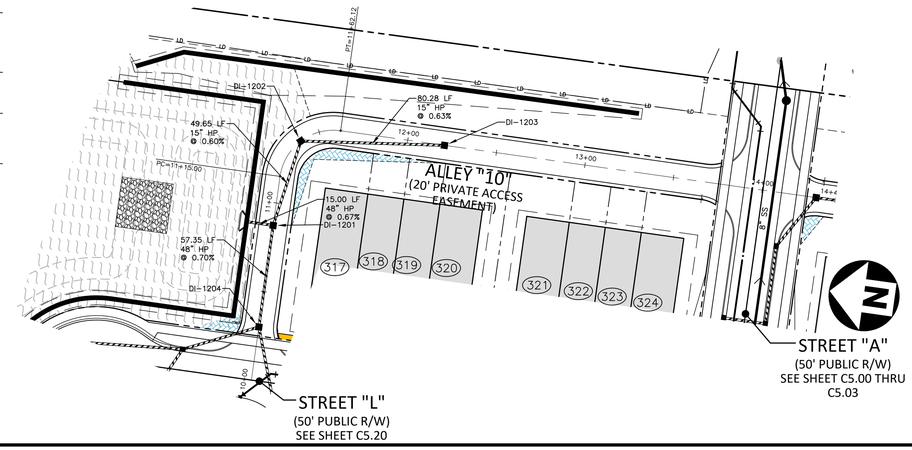
DI-1250
STA ???
T/G=314.10
INV IN=304.40 (DI-1251)
INV OUT=304.30

DI-1251
STA ???
T/G=314.39
INV IN=309.60 (DI-1252)
INV IN=305.20 (DI-1253)
INV OUT=305.10

DI-1253
STA ???
T/G=310.48
INV OUT=305.90

DI-1257
STA ???
T/G=304.91
INV IN=300.00 (DI-1258)
INV OUT=299.30

DI-1258
STA ???
T/G=306.80
INV OUT=300.50



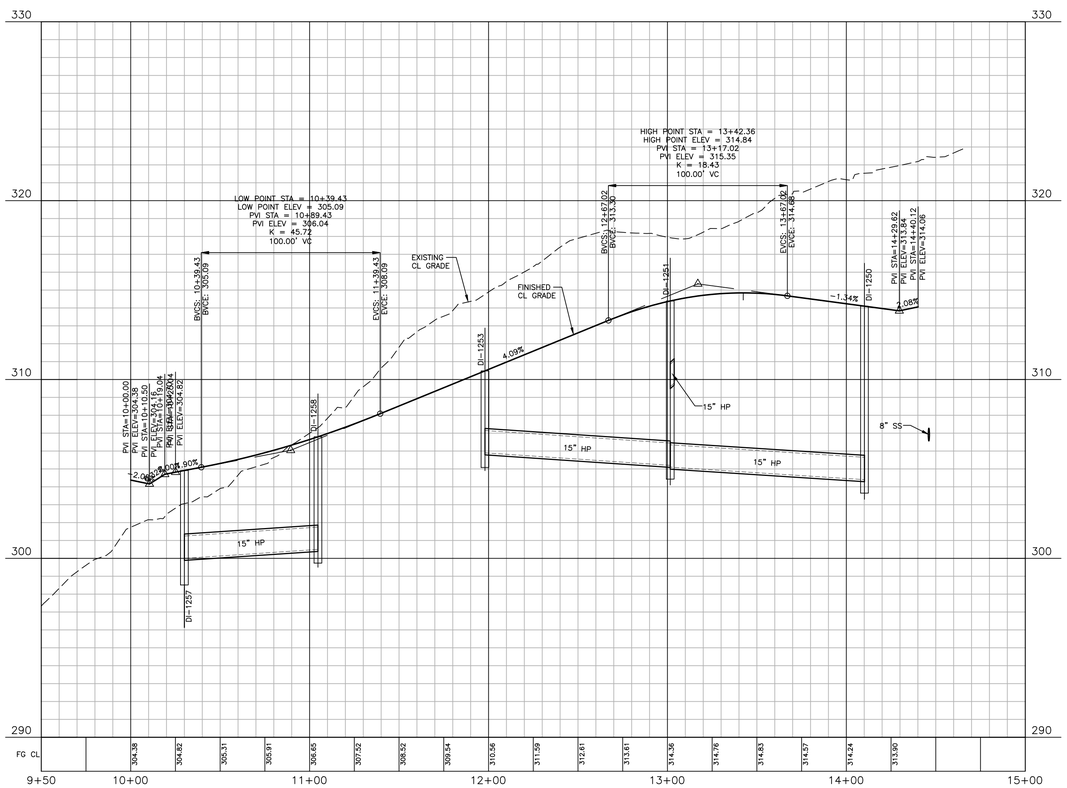
DI-1201
STA ???
T/G=301.75
INV IN=289.20 (DI-1204)
INV IN=296.90 (DI-1202)
INV OUT=274.10

DI-1202
STA ???
T/G=302.05
INV IN=297.30 (DI-1203)
INV OUT=297.20

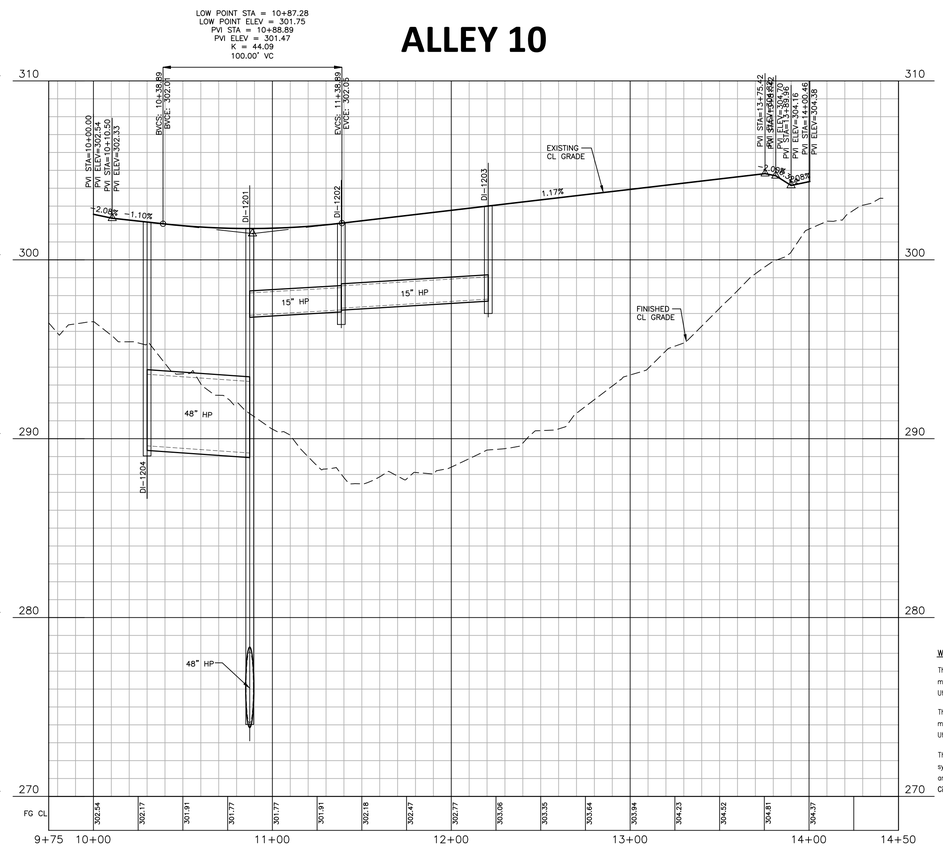
DI-1203
STA ???
T/G=303.01
INV OUT=297.80

DI-1204
STA ???
T/G=302.11
INV IN=290.10 (CB-1209)
INV IN=294.10 (CB-1205)
INV OUT=289.60

ALLEY 9



ALLEY 10



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-P5.dwg, 2/27/2024 4:26:26 PM, Zach Lee

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D·R·HORTON America's Builder

REVISIONS

NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER BRIAN K. BARKER
NOT FOR CONSTRUCTION

CHAMBLEE LAKE

CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

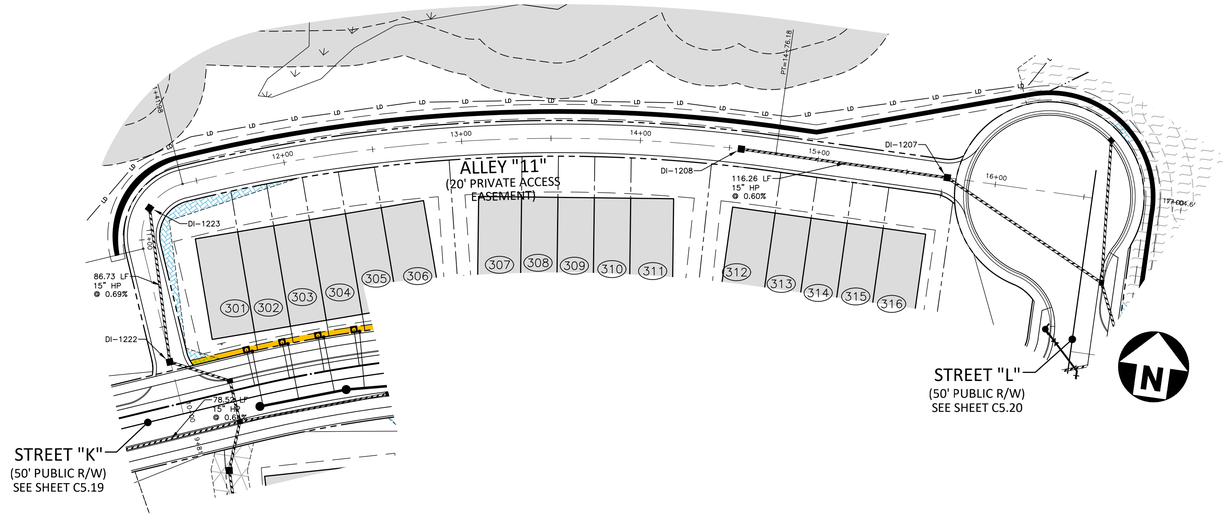
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P5
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE

ALLEY "9", STA. 9+50 THRU STA. 14+50
ALLEY "10", STA. 9+75 THRU STA. 14+50

C5.36



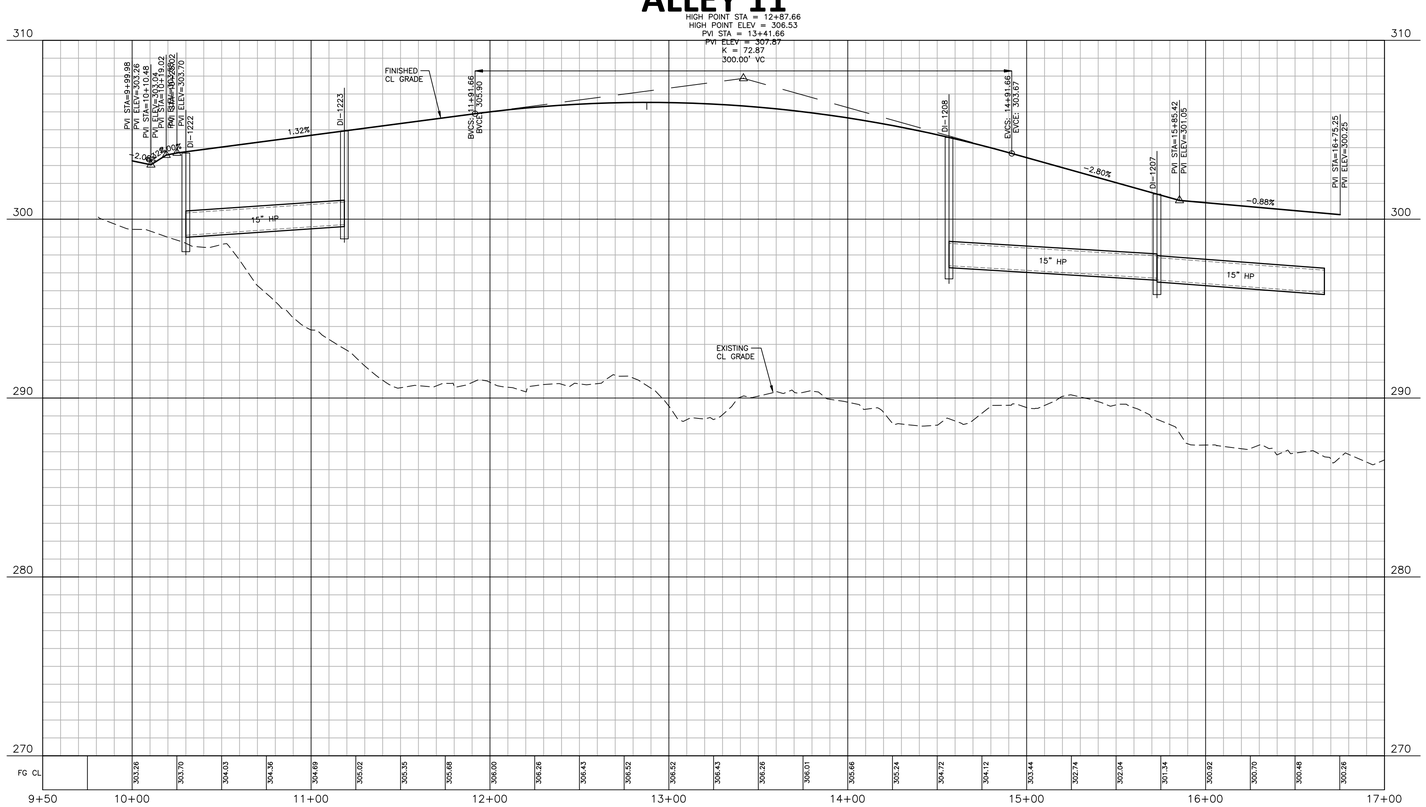
DI-1207
STA ???
T/G=301.40
INV IN=296.70 (DI-1208)
INV OUT=296.60

DI-1208
STA ???
T/G=304.57
INV OUT=297.40

DI-1222
STA ???
T/G=303.70
INV IN=299.10 (DI-1223)
INV OUT=299.00

DI-1223
STA ???
T/G=304.93
INV OUT=299.70

ALLEY 11



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
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GRAPHIC SCALE
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D·R·HORTON America's Builder

REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
FOR REVIEW PURPOSES ONLY NOT FOR CONSTRUCTION

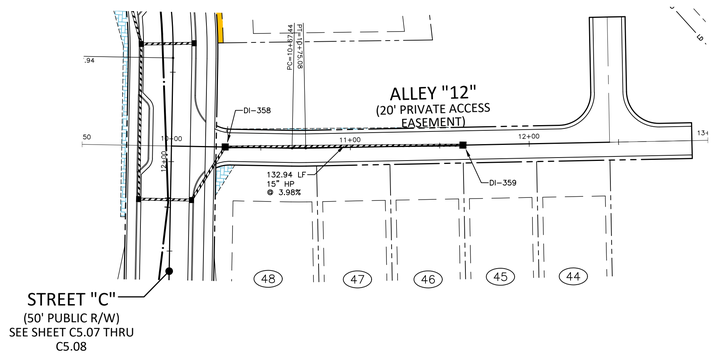
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P5
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
ALLEY "11", STA. 9+50 THRU STA. 17+00

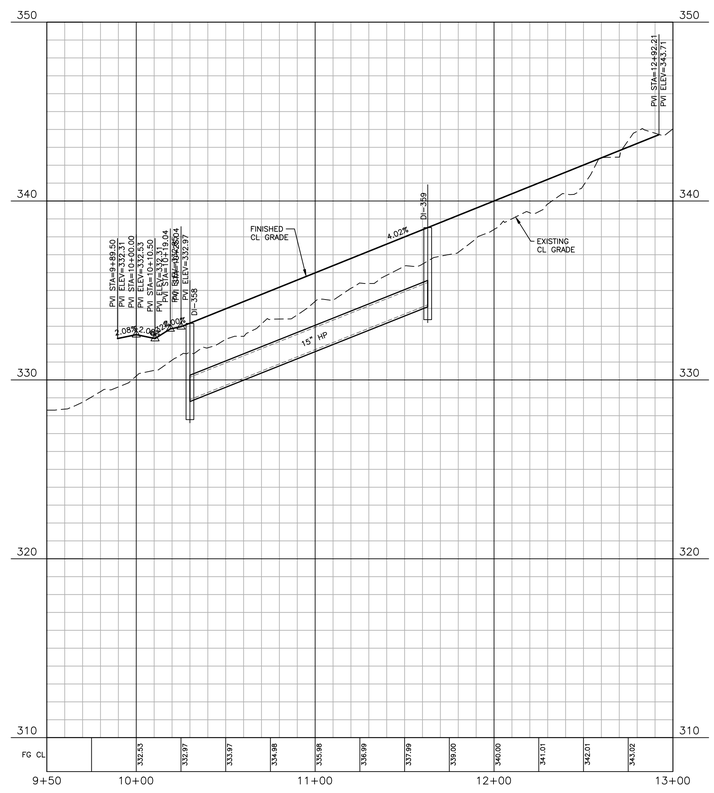
C5.37



DI-358
STA ???
T/G=333.16
INV IN=328.90 (DI-359)
INV OUT=328.60

DI-359
STA ???
T/G=338.51
INV OUT=334.20

ALLEY 12



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- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE

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1 inch = 40 ft.

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K:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawing\DRH22004-P5.dwg, 2/27/2024 4:26:32 PM, Zach.Lee

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PHONE: 919. 809. 4207

D·R·HORTON America's Builder

REVISIONS

NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER BRIAN K. BARKER
NOT FOR CONSTRUCTION

CHAMBLEE LAKE

CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

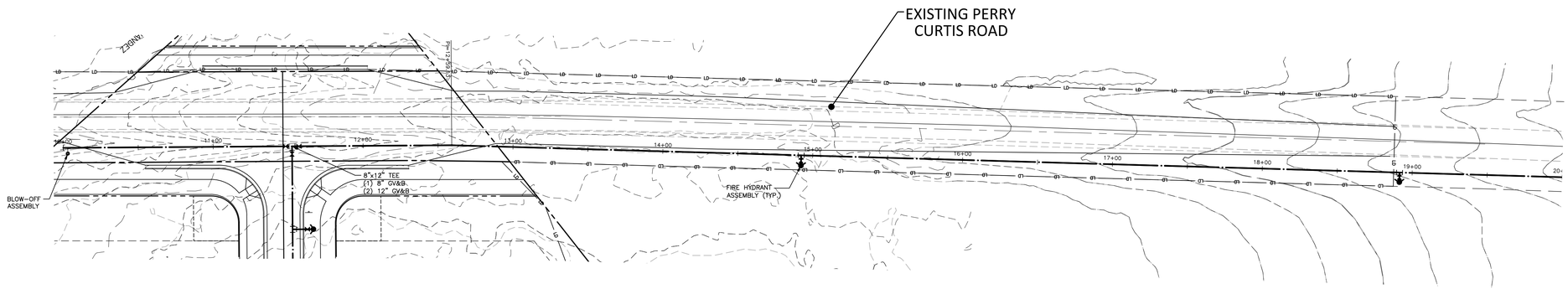
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P5
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

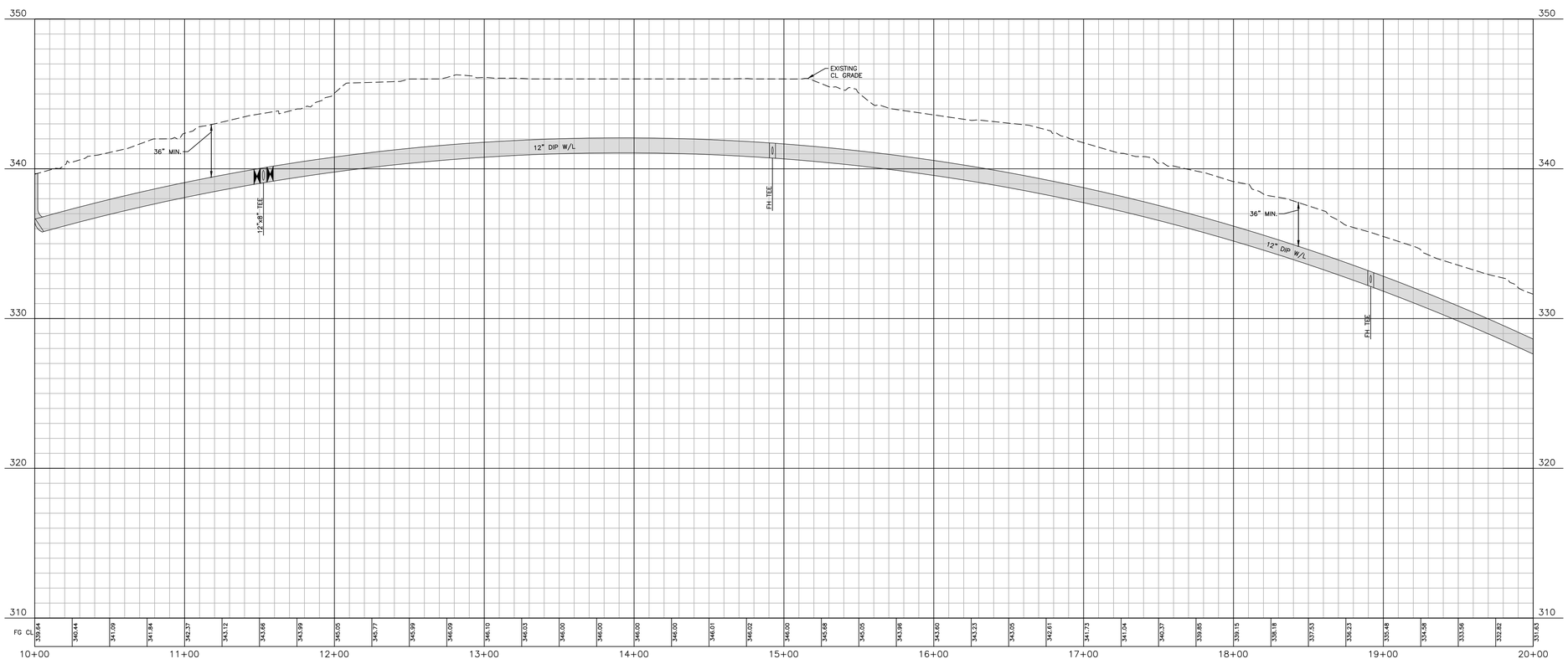
PLAN AND PROFILE

ALLEY "12", STA. 9+50 THRU STA. 13+00

C5.38



PERRY CURTIS WATERLINE



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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REVISIONS

NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER

NOT FOR CONSTRUCTION

CHAMBLEE LAKE

CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

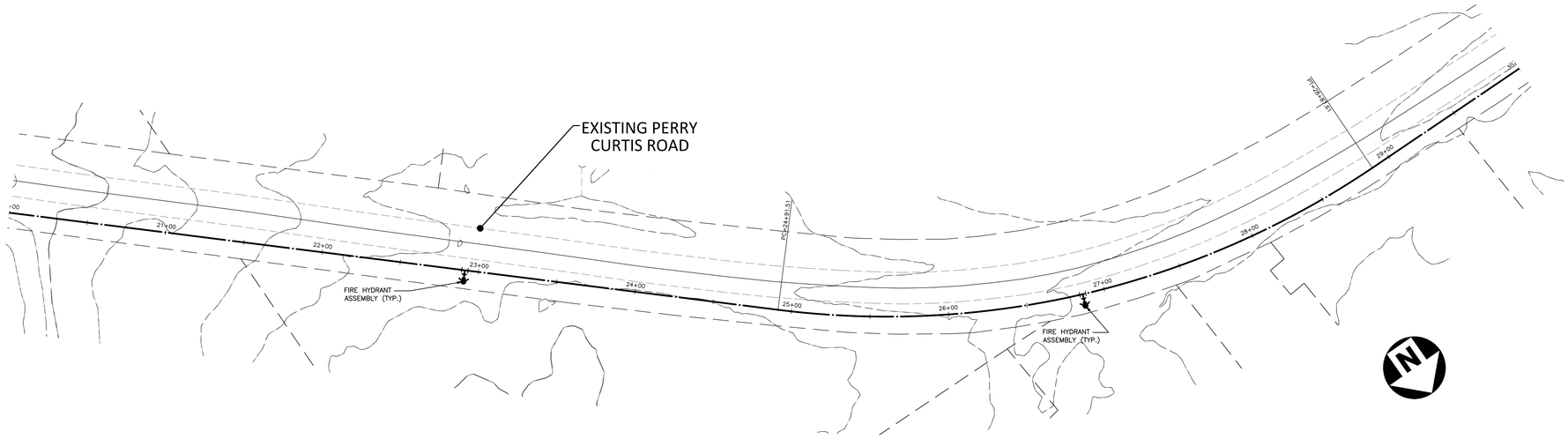
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P1
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE

PERRY CURTIS ROAD, STA. 10+00 THRU STA. 20+00

C5.39



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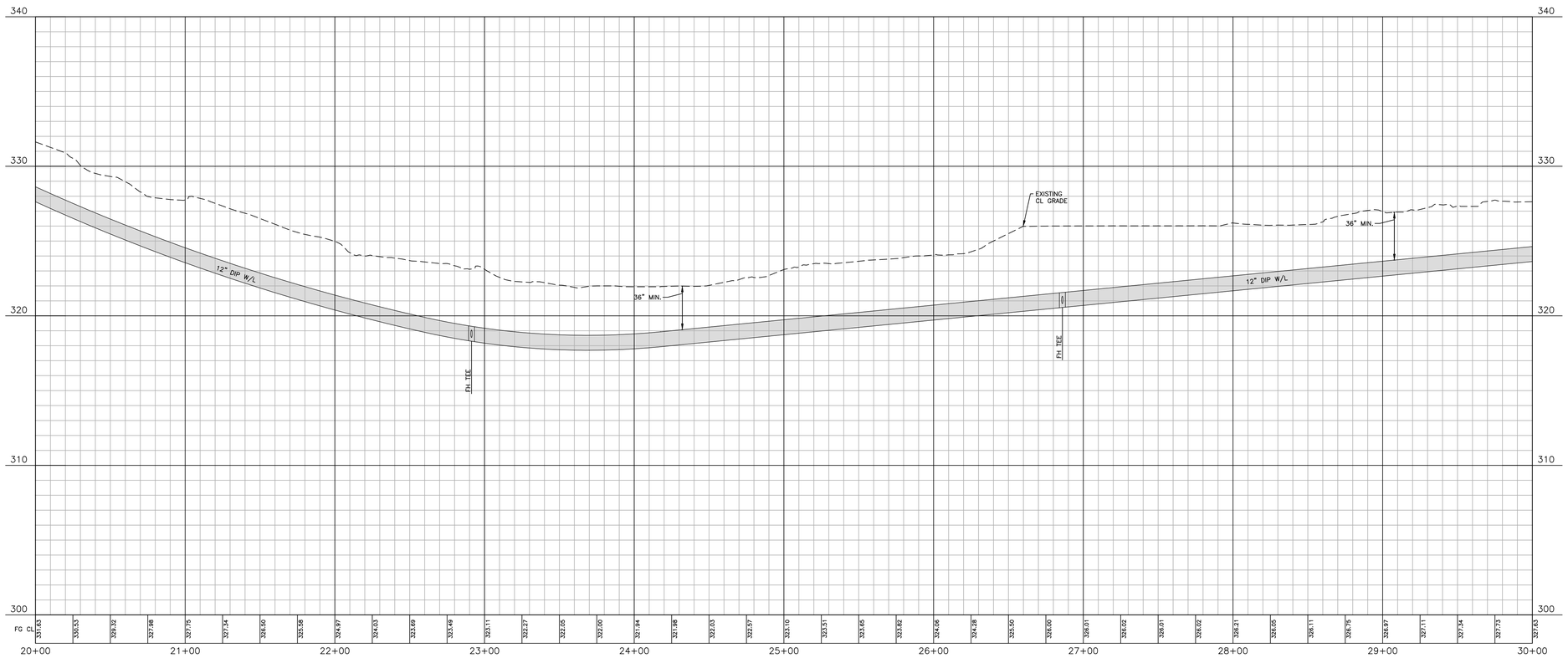

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GRAPHIC SCALE

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REVISIONS

NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER

FOR REVIEW NOT FOR CONSTRUCTION

CHAMBLEE LAKE

CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

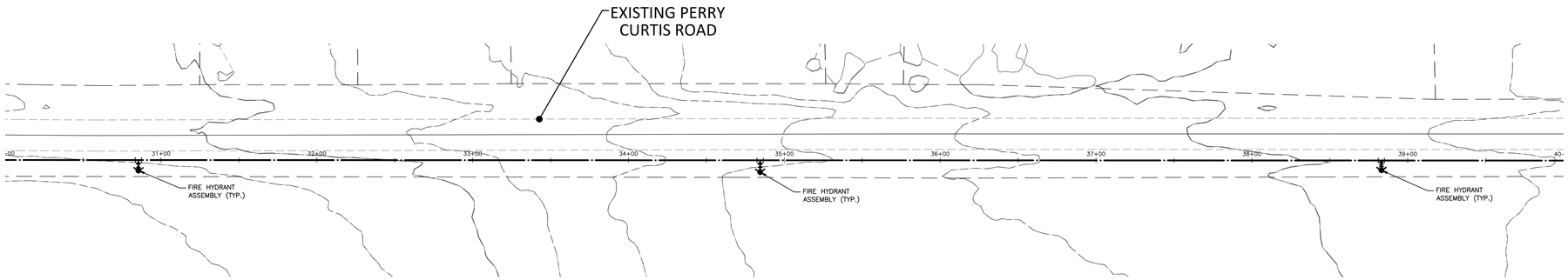
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P1
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE

PERRY CURTIS ROAD, STA. 20+00 THRU STA. 30+00

C5.40



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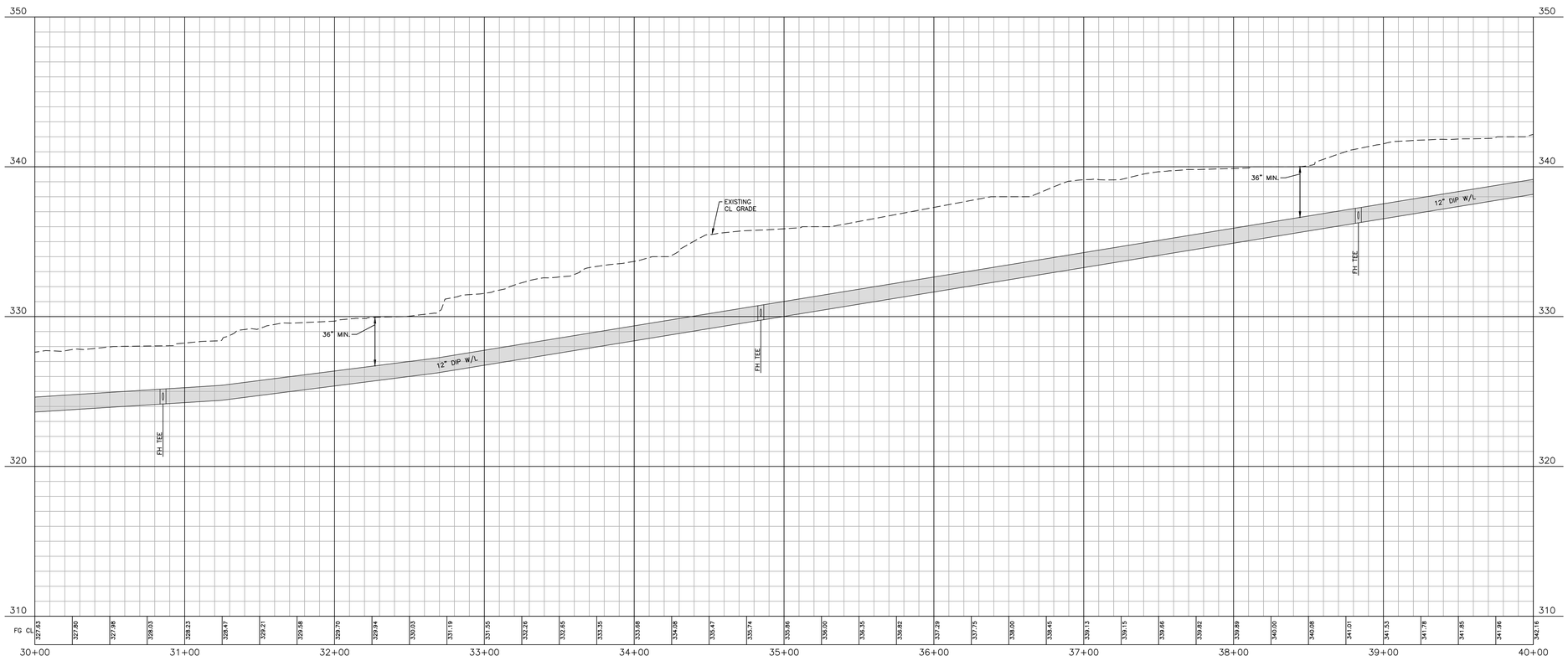

EASEMENT LEGEND

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- VARIABLE WIDTH STORM DRAINAGE EASEMENT
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GRAPHIC SCALE

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REVISIONS

NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

CHAMBLEE LAKE

CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

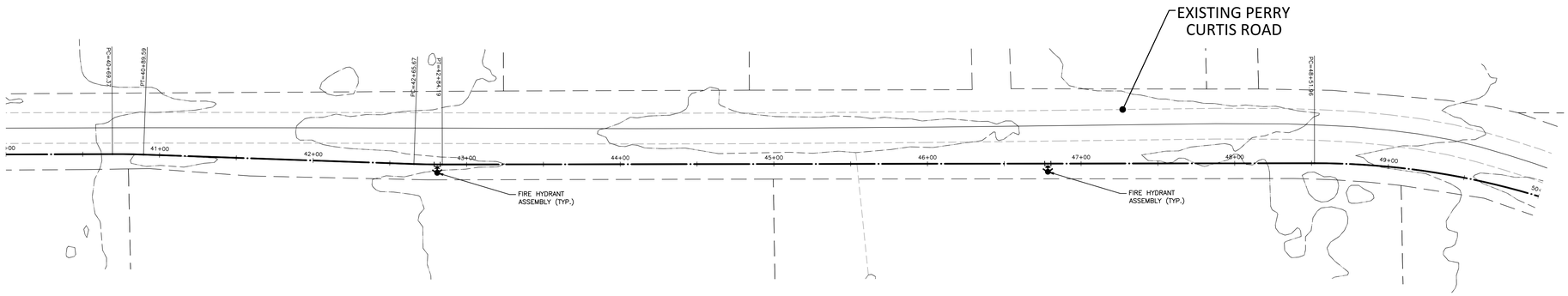
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P1
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE

PERRY CURTIS ROAD, STA. 30+00 THRU STA. 40+00

C5.41



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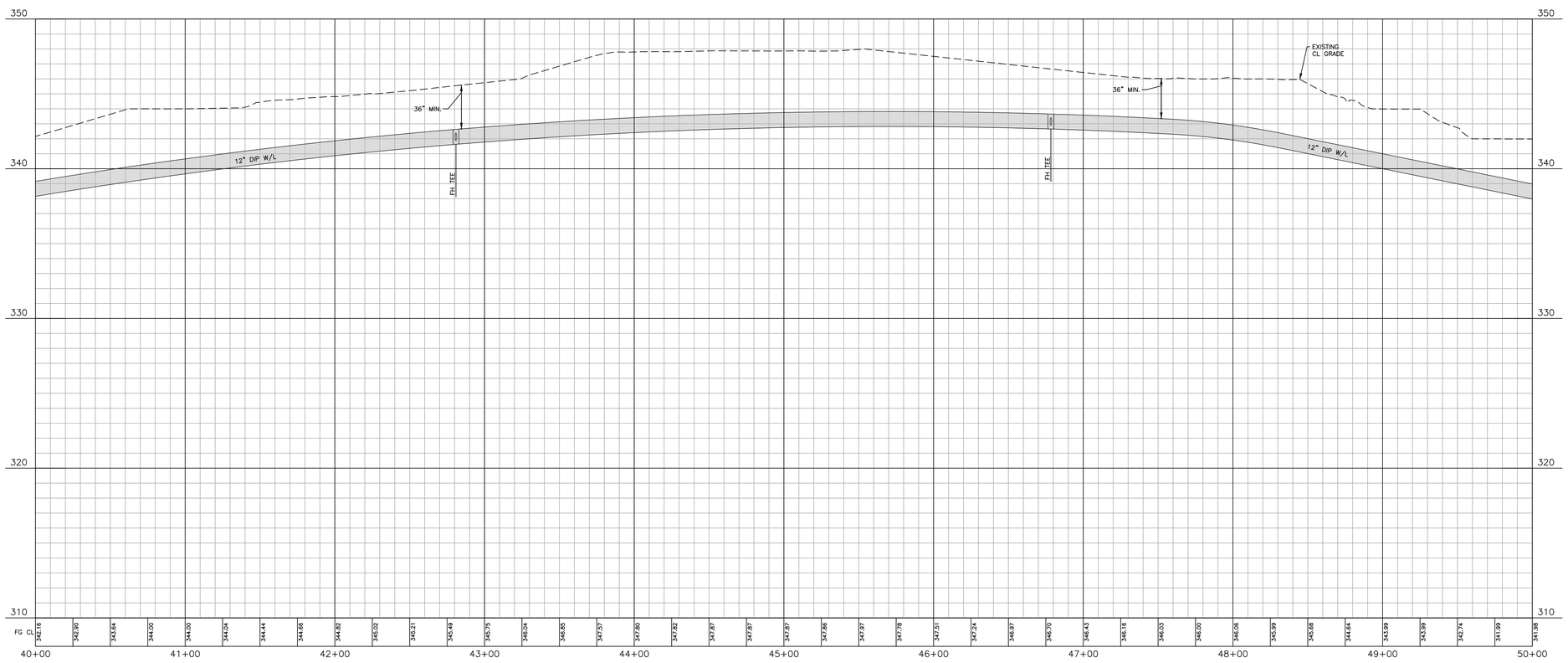

EASEMENT LEGEND

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GRAPHIC SCALE

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REVISIONS

NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
FOR REVIEW AND COORDINATION NOT FOR CONSTRUCTION

CHAMBLEE LAKE

CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

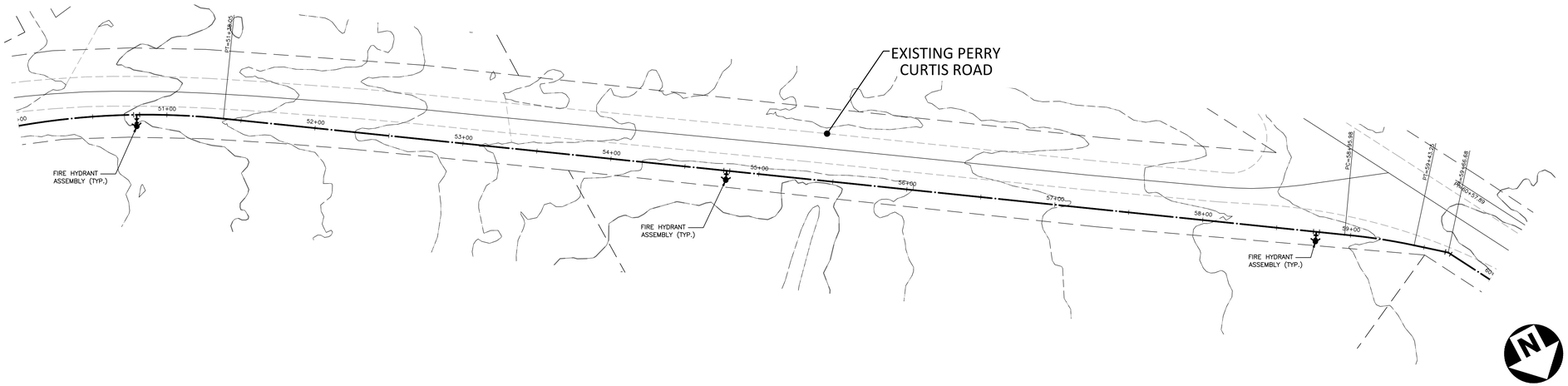
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P1
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

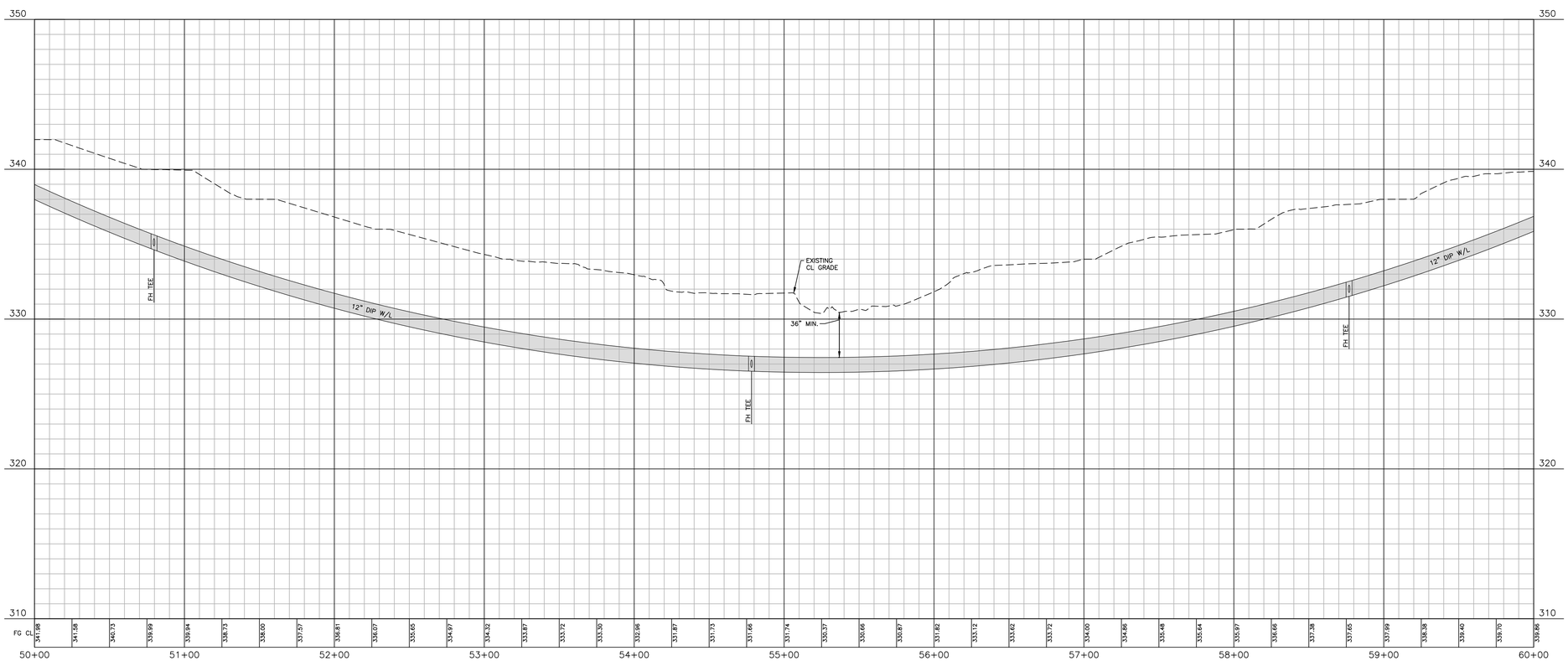
PLAN AND PROFILE

PERRY CURTIS ROAD, STA. 40+00 THRU STA. 50+00

C5.42



PERRY CURTIS WATERLINE



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SITE PERMITTING APPROVAL

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REVISIONS

NO. DATE

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NOT FOR CONSTRUCTION

CHAMBLEE LAKE

CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

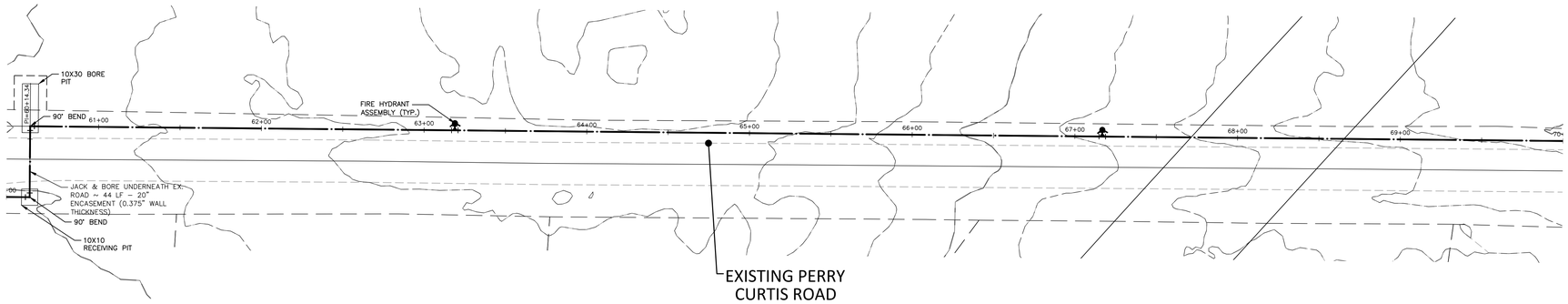
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P1
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE

PERRY CURTIS ROAD, STA. 50+00 THRU STA. 60+00

C5.43



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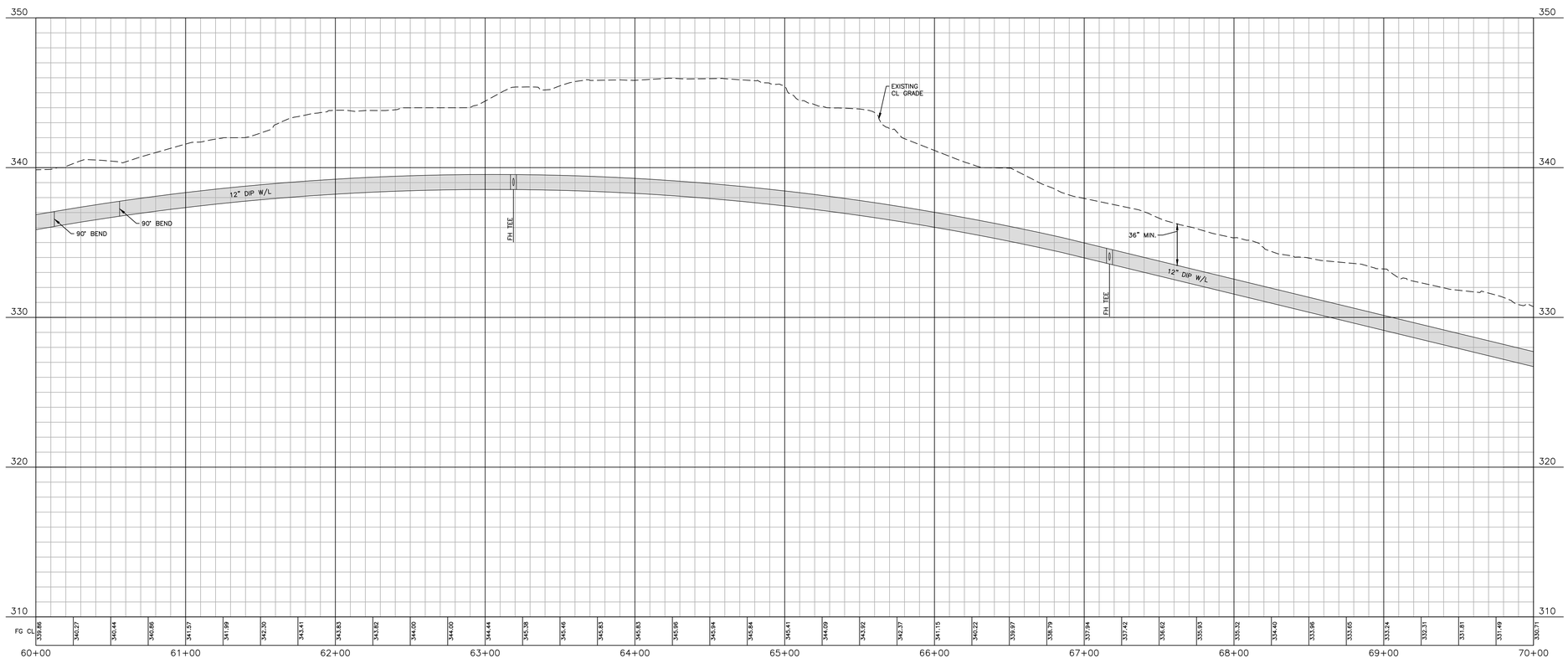

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REVISIONS

NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

CHAMBLEE LAKE

CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

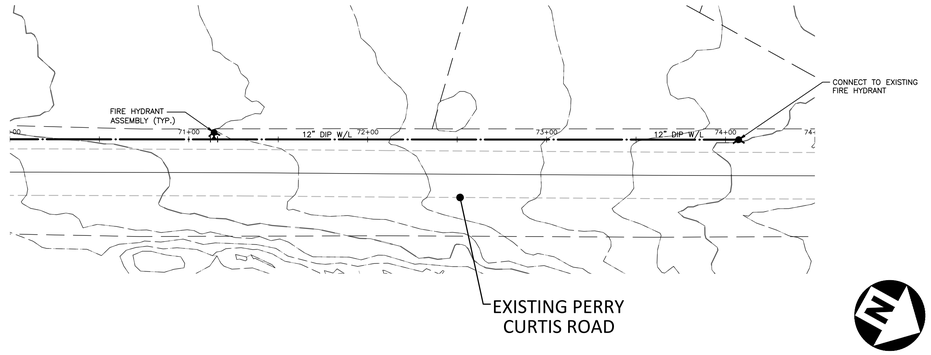
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-P1
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE

PERRY CURTIS ROAD, STA. 60+00 THRU STA. 70+00

C5.44



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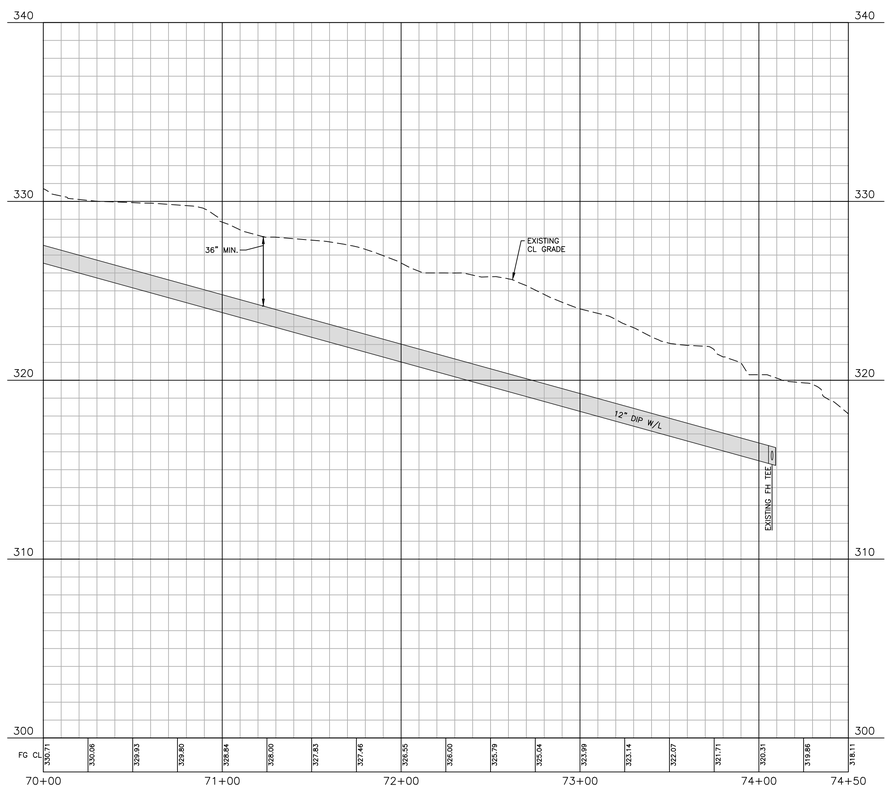

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Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-P6.dwg, 2/27/2024 4:27:04 PM, Zach Lee

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RALEIGH, NC 27615
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REVISIONS
NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
PRELIMINARY NOT FOR CONSTRUCTION

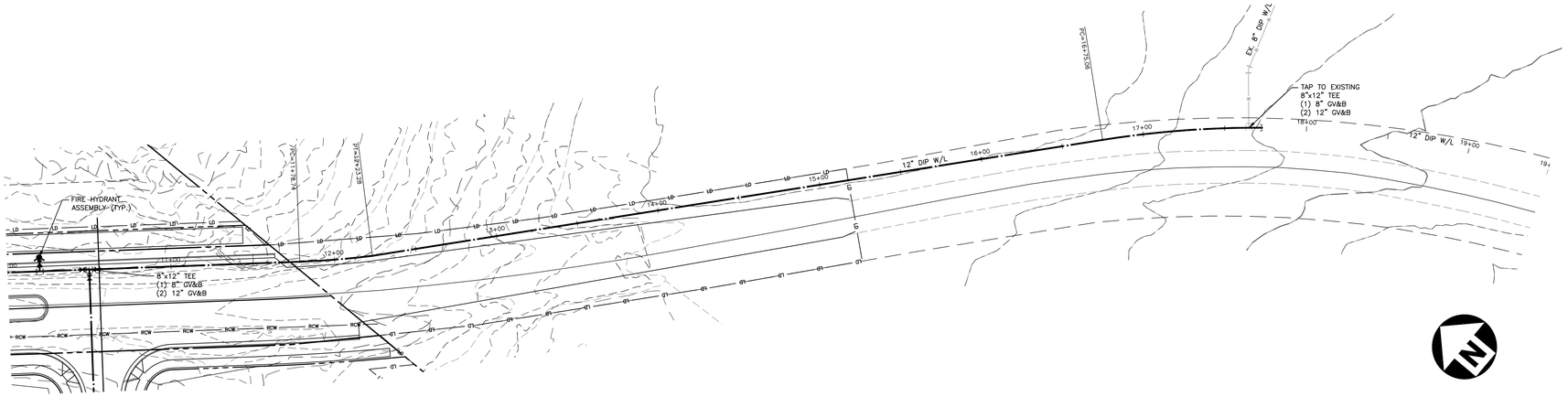
CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

PLAN INFORMATION

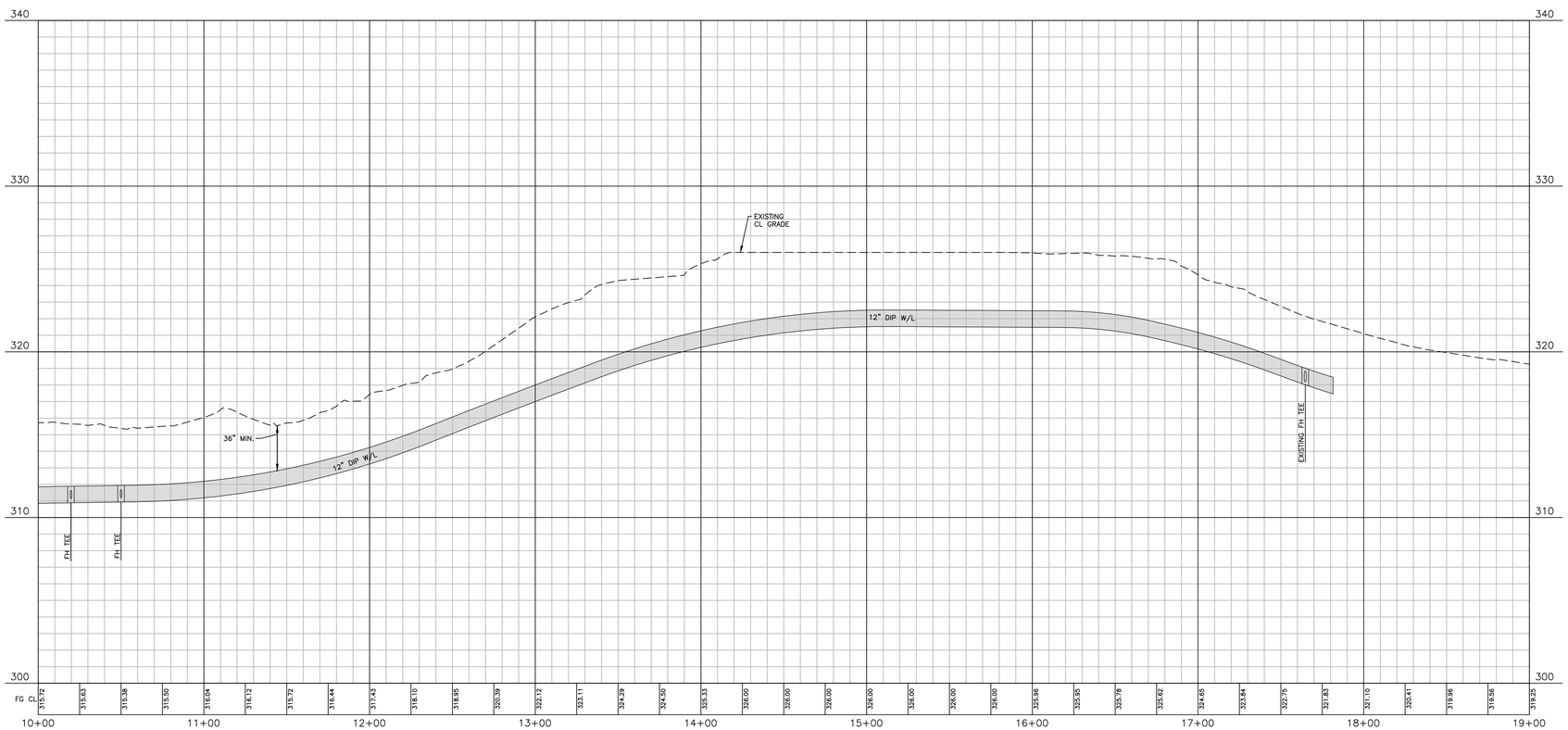
PROJECT NO.	DRH22004
FILENAME	DRH22004-P1
CHECKED BY	RKB
DRAWN BY	CAJ
SCALE	1"=40'/1"=4'
DATE	02. 26. 2024

PLAN AND PROFILE
PERRY CURTIS ROAD, STA. 70+00 THRU STA. 74+50

C5.45



CHAMBLEE WATERLINE



EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT
- 3 FOOT CITY OF RALEIGH UTILITY EASEMENT

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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 # _____

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 # _____

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions 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 # _____

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Knightdale and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-P6.dwg, 7/27/2024 4:27:07 PM, Zach Lee

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D·R·HORTON America's Builder

REVISIONS

NO. DATE

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER

NOT FOR CONSTRUCTION

CHAMBLEE LAKE

CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

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PLAN AND PROFILE

CHAMBLEE ROAD, STA. 10+00 THRU STA. 17+00

C5.46

EROSION CONTROL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ZEBULON, WAKE COUNTY, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE WAKE COUNTY SOIL AND EROSION CONTROL STANDARDS AND SPECIFICATIONS.
3. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER QUALITY (DWQ) STANDARDS AND SPECIFICATIONS. WHERE DIFFERENT FROM WAKE COUNTY STANDARDS, THE MORE STRINGENT METHOD SHALL BE APPLIED.
4. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY EITHER THE WAKE COUNTY EROSION CONTROL DEPARTMENT OR THE DWQ.
5. FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
6. NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
7. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
8. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY WAKE COUNTY SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCES)
9. CONTRACTOR SHALL INSPECT AND REPAIR ALL SEDIMENT/EROSION CONTROL DEVICES AT LEAST ONCE A WEEK AND AFTER EACH 1" RAINFALL EVENT. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES/SEDIMENT TRAPS UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED. ALL SKIMMER BASINS SHALL BE DE-SILTED AFTER THE END OF EVERY MAJOR RAIN EVENT.
10. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
11. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
12. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE TOWN/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
13. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE TOWN/COUNTY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
14. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
15. CONSTRUCTION SEQUENCES HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
16. PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN TRENCH.
17. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
18. TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.
19. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
20. DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.
21. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS.
22. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS FINAL RULE 29CFR PART 1926 , SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY THE CONTRACTOR RESPONSIBLE FOR EXCAVATION.
23. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO THE SUBSTITUTION OF ALTERNATIVE EQUIPMENT.
24. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
25. SOIL UNDER BUILDINGS AND PAVED AREAS SHALL BE COMPACTED TO STANDARD PROCTOR 98% MAXIMUM DRY DENSITY OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
26. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
27. CONTRACTOR TO NOTIFY NCDEQ-DEMLR AND WAKE COUNTY E&SC INSPECTOR, A MINIMUM OF 10 DAYS PRIOR TO INITIATING BASIN DEWATERING/REMOVAL SEQUENCE, PER NCG01 PERMIT
28. CONTRACTOR SHALL NOTIFY NC 811 AT 811 OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF NC 811. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
29. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATION (I.E., POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
30. EXISTING UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
31. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE GRADING CONTRACTOR, ENGINEER, CONSTRUCTION INSPECTOR & OWNER.
32. LIMITATION TO THE EXPOSED AREA IS REQUIRED ON THIS PROJECT, NO MORE THAN APPROXIMATELY 80 ACRES SHOULD BE BARE AT ANY TIME. THIS ROLLING ACREAGE CAN BE MANAGED WITH GROUNDCOVER ESTABLISHMENT.

STAGE 1 SPECIFIC CONSTRUCTION SEQUENCE

1. OBTAIN A LAND DISTURBING PERMIT FROM WAKE COUNTY AND SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH A WAKE COUNTY ENVIRONMENTAL CONSULTANT (KARYN PAGEAU AT 919-796-8769).
2. INSTALL TREE PROTECTION FENCING AND TEMPORARY CONSTRUCTION ENTRANCE ACCORDING TO THE EROSION CONTROL PLAN.
3. INSTALL TEMPORARY STREAM CHANNEL CROSSING WITH TIMBER MAT OR LOG MAT BOARDS BUTTED TOGETHER. INSTALL SIDE BOARDS TO PREVENT SEDIMENT OVER EDGES AND UNDERLAY BOARDS WITH GEOTEXTILE MATTING TO PREVENT SEDIMENT FROM DRAINING BETWEEN LOG BOARDS.
4. DURING EXTENDED DRY WEATHER CONDITIONS, CONSTRUCT CREEK DIVERSION CHANNEL FOR PERMANENT STREAM CROSSING.

4.1. EXCAVATE THE DIVERSION CHANNEL WITHOUT DISTURBING THE EXISTING CHANNEL.

4.2. PLACE IMPERVIOUS MAT LINER IN DIVERSION CHANNEL.

4.3. CONNECT THE DOWNSTREAM DIVERSION CHANNEL INTO THE DOWNSTREAM EXISTING CHANNEL AND SECURE THE IMPERVIOUS MAT LINER AT THE CONNECTION. INSTALL VELOCITY DISSIPATOR OVER THE IMPERVIOUS MATTING.

4.4. CONNECT THE UPSTREAM DIVERSION CHANNEL INTO THE UPSTREAM EXISTING CHANNEL AND SECURE THE IMPERVIOUS MAT LINER AT THE CONNECTION.

4.5. CONSTRUCT A COFFER DAM IN THE EXISTING CHANNEL AT THE UPSTREAM SIDE TO DIVERT FLOW INTO THE DIVERSION CHANNEL.

4.6. CONSTRUCT A COFFER DAM IN THE EXISTING CHANNEL AT THE DOWNSTREAM SIDE TO ISOLATE THE WORK AREA.

5. GENERAL CONSTRUCTION SEQUENCE PRESENTED BELOW IS A GUIDELINE FOR BREACHING THE DAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY BREACHING THE DAM AND AVOIDING MIGRATION OF SEDIMENT OFFSITE.

5.1. CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IF RAIN IS FORECASTED BEFORE THE ESTIMATED COMPLETION DATE OF THE BREACH CONSTRUCTION.

5.2. DRAIN EXISTING POND WITH TEMPORARY SIPHON SYSTEM, PUMP, OR OTHER MEANS APPROVED BY THE DESIGN ENGINEER IN SUCH A WAY TO AVOID RELEASING SEDIMENT FROM POND. POND TO BE COMPLETELY DRAINED BEFORE DAM EMBANKMENT IS BREACHED. THE POND SHALL NOT BE DRAINED BY BREACHING THE DAM. OUTLET OF DRAIN FROM SIPHON OR PUMP TO EXIT INTO DEWATERING STRUCTURE (FILTER BAG TYPE SPECIAL STILLING BASIN) PER DETAIL. NOTE THAT A PUMP MAY BE REQUIRED DURING CONSTRUCTION TO PASS THE BASEFLOW.

5.3. ONCE POND IS COMPLETELY DRAINED, EVALUATE POND DEPTH AND BREACH SECTION LOCATION. CONTRACTOR AND OWNER TO DECIDE FINAL LOCATION OF BREACH SECTION AND GEOMETRY BASED ON FIELD CONDITIONS AND COMMUNICATION WITH THE CITY OF RALEIGH, WAKE COUNTY, AND ENVIRONMENTAL PROGRAMS STAFF. DAM TO BE BREACHED AT THE LOWEST POSSIBLE POINT AS TO NOT IMPOUND ANY WATER AFTER THE FINAL BREACH SECTION IS STABILIZED.

5.4. PROPOSED CUT SLOPES FOR THE BREACH OF THE DAMS ARE SHOWN AT 3(H):1(V). ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A NC P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. MCADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.

5.5. AN IMPERVIOUS LINER (MIRAFI FW402 OR ENGINEER APPROVED EQUIVALENT) SHALL BE INSTALLED IN THE BREACH CHANNEL DURING PAUSES IN CONSTRUCTION WHILE THE BREACH CHANNEL HAS NOT BEEN COMPLETED (I.E. EROSION CONTROL MEASURES INSTALLED). AN IMPERVIOUS LINER SHALL NOT BE PRESENT IN THE FINAL CONDITION OF THE BREACH CHANNEL.

5.6. BREACH EXISTING DAM PER GEOMETRY SHOWN. DISPOSE OF REMOVED DAM EMBANKMENT MATERIAL IN STOCKPILE AREA AS SHOWN (APPROXIMATELY 6' IN HEIGHT). INSTALL SEDIMENT AND EROSION CONTROL MEASURES FOR REMOVED EMBANKMENT MATERIAL BEFORE PLACEMENT OF MATERIAL.

5.7. STABILIZE BREACH SECTION PER GEOMETRY AND SPECIFICATIONS ON THIS SHEET. SEED AND MULCH THE POND BOTTOM. PLACE FIVE SECTIONS OF TEMPORARY COIR BAFFLE PERPENDICULAR TO THE FLOW OF WATER ALONG THE BOTTOM OF BREACH SECTION (REMOVE BAFFLES ONCE THE GRASS ON THE POND BOTTOM HAS GERMINATED). SIDE SLOPES AND CHANNEL BOTTOM TO BE STABILIZED WITH TURF GRASS SEED AND EXCELSIOR MATTING AS NEEDED. REMOVED DAM EMBANKMENT MATERIAL TO BE STABILIZED WITH TURF GRASS SEED.

5.8. ONCE BREACH SECTION AND SITE STOCKPILE AREA ARE STABILIZED, REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES, INCLUDING FILTER BERM, AND DISPOSE OF IN A PROPER MANNER.

6. INSTALL SILT FENCING, AND SILT FENCE OUTLETS AS SHOWN ON APPROVED STAGE 1 EROSION CONTROL PLANS. GRADE ONLY AS NECESSARY TO INSTALL THESE DEVICES. INSTALL SILT FENCE OUTLETS AT LOW POINTS IN THE SILT FENCING AS NEEDED TO PREVENT BLOWOUTS.
7. INSTALL DIVERSION DITCHES, SEDIMENT TRAPS AND SKIMMER BASINS AS SHOWN ON APPROVED STAGE 1 EROSION CONTROL PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
8. STABILIZE ALL DISTURBED AREAS, INCLUDING DIVERSION DITCHES, SEDIMENT TRAPS, AND SKIMMER BASINS IMMEDIATELY UPON INSTALLATION. SEE DETAIL ON SEEDING SCHEDULE. TEMPORARILY SEED AND MULCH ANY DISTURBED AREAS IN A TIMEFRAME COMPLIANT WITH NPDES STABILIZATION GUIDELINES.
9. SEDIMENT BASINS "SCM-A" , "SCM-B", "SCM-D", "SCM-E", "SCM-F", "SCM-G", "SCM-H", "SCM I", AND "SCM-J" ARE UTILIZING THE PROPOSED STORMWATER PONDS AS TEMPORARY RISER BASINS. THE PERMANENT OPENINGS IN THE RISERS MUST BE PLUGGED DURING THE EROSION CONTROL STAGES.
10. MAINTAIN EROSION CONTROL DEVICES WEEKLY, AND FOLLOWING EVERY 1" RAIN EVENT. MONITOR EROSION CONTROL USING THE STANDARD NPDES REPORT AFTER EVERY 1" RAIN FALL. REPORTS SHALL BE STORED ON SITE IN THE EVENT THE DEPARTMENT OF WATER QUALITY PERFORMS AN ON-SITE INSPECTION.
11. STABILIZE GRADED AREAS AS THEY ARE CLEARED, PER THE NPDES GROUND STABILIZATION TIMELINE. ONCE FINAL GRADE HAS BEEN ACHIEVED, PAVE OR PERMANENTLY SEED ALL AREAS AND SLOPES PER NC DEQ'S EROSION SEDIMENT CONTROL PLANNING AND DESIGN MANUAL CURRENT VERSION, SECTION 6.10 AND 6.11.
12. AREA DOWNSTREAM OF BASINS AND DIVERSIONS WILL BE PROVIDED WITH STABILIZATION (SEED, MULCH, AND ANCHOR) PRIOR TO THE CERTIFICATE OF COMPLIANCE INSPECTION. NO MORE THAN 50 ROLLING ACRES CAN BE DISTURBED AT A TIME.
13. CALL THE WAKE COUNTY ENVIRONMENTAL CONSULTANT (KARYN PAGEAU AT 919-796-8769) FOR AN ON-SITE INSPECTION AND OBTAIN A CERTIFICATE OF COMPLIANCE. ONCE APPROVED, CONTINUE TO THE STAGE 2 SPECIFIC CONSTRUCTION SEQUENCE.

REQUIRED WAKE COUNTY BASIN REMOVAL SEQUENCE

WAKE COUNTY OR JURISDICTIONAL MUNICIPALITY MUST GRANT PERMISSION TO CONVERT SEDIMENT BASINS OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK.

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

EROSION CONTROL MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BY THE SITE CONTRACTOR FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
2. THE SEDIMENT BASINS SHALL BE INSPECTED ONCE A WEEK DURING LAND DISTURBING ACTIVITIES AND AFTER EACH 1" RAIN EVENT. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF EACH BASIN. PORTIONS OF THE BASIN'S GRAVEL FACING THAT ARE CONTAMINATED BY SEDIMENT SHALL BE REPLACED WITH FRESH GRAVEL DURING EACH SEDIMENT REMOVAL EPISODE.
3. SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH 1" RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT, AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADIENT DISTURBED AREAS.
4. DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED. PERMISSION SHALL BE GIVEN BY THE EROSION CONTROL INSPECTOR FOR REMOVAL

SEEDBED PREPARATION

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

STAGE 2 SPECIFIC CONSTRUCTION SEQUENCE

1. CLEAR AND GRUB REMAINDER OF SITE AND BEGIN EARTHWORK ACTIVITY.
2. AS THE SITE IS BROUGHT UP TO GRADE, THE CONTRACTOR SHALL RAISE AND/OR RELOCATE ALL DIVERSION DITCHES TO MAINTAIN A POSITIVE SEDIMENT LADEN FLOW TO ALL SEDIMENT BASINS. SIMILARLY, SEDIMENT BASIN EMBANKMENTS SHALL BE RAISED WITH GRADING ACTIVITIES IF/AND WHEN NECESSARY.
3. INSTALL STORM COLLECTION SYSTEM WITH INLET PROTECTION ON ALL STRUCTURES ACCEPTING FLOW, AS SITE IS BROUGHT TO FINAL GRADE BEGINNING WITH MAIN TRUNK LINES THAT CONVEY RUNOFF TO THE SEDIMENT BASINS.
4. INSTALL APPROVED INLET PROTECTION AS INLETS ARE INSTALLED. TEMPORARY EROSION CONTROL MEASURES ARE TO REMAIN UNTIL SUCH MEASURES HAVE BEEN APPROVED FOR REMOVAL BY THE ENVIRONMENTAL CONSULTANT (KARYN PAGEAU AT 919-796-8769) AND EROSION CONTROL INSPECTOR. ADDITIONAL MEASURES MAY BE REQUIRED BY THE INSPECTOR DEPENDING ON FIELD CONDITIONS.
5. MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAIN EVENT THROUGHOUT CONSTRUCTION.
6. STABILIZE GRADED AREAS AS THEY ARE BROUGHT TO FINAL GRADE, PER THE NPDES GROUND STABILIZATION TIMELINE. ONCE FINAL GRADE HAS BEEN ACHIEVED, PERMANENTLY SEED ALL AREAS AND SLOPES PER NCDENR'S EROSION SEDIMENT CONTROL PLANNING AND DESIGN MANUAL VERSION 5/13, CHAPTER 6.ii.6.10 AND 6.ii.6.11. SEE THIS SHEETS FOR SEEDING SPECIFICATIONS.
7. UPON APPROVAL OF PERMANENT STABILIZATION, REMOVE BALANCE OF EROSION CONTROL MEASURES, AND CONVERT "SCM-A" , "SCM-B", "SCM-D", "SCM-E", "SCM-F", "SCM-G", "SCM-H", "SCM I", AND "SCM-J" TO PERMANENT STORMWATER MANAGEMENT FACILITIES.

STOCKPILING NOTES

THE TEMPORARY STOCKPILING OF MATERIALS IS PERMITTED SUBJECT TO THE FOLLOWING STANDARDS:

1. THE STOCKPILED MATERIAL SHALL NOT EXCEED 25 FEET IN HEIGHT ABOVE THE ORIGINAL NATURAL GRADE.
2. THE FOOTPRINT OF THE STOCKPILING AREA SHALL BE LOCATED AT LEAST 25 FEET FROM ADJOINING PROPERTY LINES.
3. THE SIDE SLOPE OF THE STOCKPILED MATERIALS SHALL NOT EXCEED A 3:1 RATIO.
4. STOCKPILED MATERIALS SHALL BE LIMITED TO DIRT, FILL, AND/OR GRAVEL.
5. STOCKPILED MATERIALS SHALL BE SEEDED OR COVERED WITH TARPS OR MULCH. TARPS SHALL BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
6. ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
7. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
8. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
9. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL)

TEMPORARY AND PERMANENT SEEDING NOTES

1. TEMPORARY SEEDING: MUST PLANT OR OTHERWISE PROVIDE A TEMPORARY COVER SUFFICIENT TO RESTRAIN EROSION AFTER ANY GRADED AREA REMAINS UNDISTURBED, AS ILLUSTRATED ON THE NPDES GROUND STABILIZATION TABLE THIS SHEET.
2. PERMANENT SEEDING: MUST PLANT OR OTHERWISE PROVIDE A PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION UPON COMPLETION OF CONSTRUCTION OR DEVELOPMENT IN A TIMEFRAME COMPLIANT WITH THE NPDES GROUND STABILIZATION GUIDELINES.

SEDIMENT TRAP DESIGN TABLE

SEDIMENT TRAP ID	SCM-A	SCM-B	SCM-C	SCM-E	SCM-F	SCM-G	SCM-H	SCM-I	SCM-J	ST-1	ST-2	ST-3	ST-4	ST-5	ST-6	ST-7	ST-8
Q10(CFS)	14.9 CFS	33.8 CFS	22.9 CFS	29.8 CFS	27.0 CFS	18.2 CFS	8.5 CFS	16.1 CFS	9.0 CFS	5.7 CFS	11.6 CFS	11.3 CFS	11.0 CFS	8.0 CFS	7.4 CFS	13.7 CFS	3.87 CFS
BOTTOM LENGTH	287 FT.	245 FT.	410 FT.	190 FT.	304 FT.	160 FT.	215 FT.	163 FT.	161 FT.	80 FT.	80 FT.	100 FT.	100 FT.	100 FT.	100 FT.	150 FT.	60 FT.
BOTTOM WIDTH	74 FT.	90 FT.	85 FT.	94 FT.	58 FT.	80 FT.	65 FT.	68 FT.	86 FT.	40 FT.	40 FT.	50 FT.	50 FT.	50 FT.	50 FT.	75 FT.	30 FT.
SEDIMENT DEPTH	4 FT.	4 FT.	1 FT.	4 FT.	4 FT.	4 FT.	3 FT.	2 FT.	4 FT.	2 FT.	2 FT.	2 FT.	2 FT.	1 FT.	1 FT.	1 FT.	2 FT.
FREEBOARD (FROM SEDIMENT DEPTH)	2 FT.	2 FT.	3 FT	2 FT.	2 FT.	2 FT.	2 FT.	2 FT.	2 FT.	2 FT.	2 FT.	2 FT.	2 FT.	2 FT.	2 FT.	2 FT.	2 FT.
DEPTH TO CREST OF SPILLWAY	4 FT.	4 FT.	4 FT.	4 FT.	4 FT.	4 FT.	3 FT.	2 FT.	4 FT.	2 FT.	2 FT.	2 FT.	2 FT.	1 FT.	1 FT.	1 FT.	2 FT.
SIDE SLOPES	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V
SPILLWAY LENGTH (RISER SIZE)	16 FT.	16 FT.	N/A	20 FT.	16 FT.	16 FT.	16 FT.	20 FT.	16 FT.	10 FT.	20 FT.	20 FT.	20 FT.	20 FT.	20 FT.	20 FT.	20 FT.
TEMPORARY RISER SIZE	N/A	N/A	3 FT. DIAM.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEIGHT OF BERM	6 FT.	6 FT.	4 FT.	6 FT.	6 FT.	6 FT.	5 FT.	4 FT.	6 FT.	4 FT.	4 FT.	4 FT.	4 FT.	3 FT.	3 FT.	3 FT.	4 FT.
TOP OF TRAP LENGTH	323 FT.	281 FT.	434 FT.	226 FT.	340 FT.	196 FT.	245 FT.	187 FT.	197 FT.	104 FT.	104 FT.	124 FT.	124 FT.	118 FT.	118 FT.	168 FT.	84 FT.
TOP OF TRAP WIDTH	110 FT.	126 FT.	109 FT.	130 FT.	94 FT.	116 FT.	95 FT.	92 FT.	122 FT.	64 FT.	64 FT.	74 FT.	74 FT.	68 FT.	68 FT.	93 FT.	54 FT.
STORAGE VOLUME REQUIRED	16524 CU. FT.	44064 CU. FT	14274 CU. FT.	34236 CU. FT.	29916 CU. FT.	20736 CU. FT.	9576 CU. FT.	19656 CU. FT.	11196 CU. FT.	3168 CU. FT.	6606 CU. FT.	6462 CU. FT.	6102 CU. FT.	4572 CU. FT.	4140 CU. FT.	8802 CU. FT.	2538 CU. FT.
STORAGE VOLUME PROVIDED	102880 CU. FT.	104970 CU. FT.	36340 CU. FT.	85790 CU. FT.	88410 CU. FT.	63460 CU. FT.	49760 CU. FT.	25030 CU. FT.	67980 CU. FT.	7930 CU. FT.	7930 CU. FT.	11890 FT.	11890 FT.	5460 CU. FT.	5460 CU. FT.	11940 CU. FT.	4770 CU. FT.
SURFACE AREA REQUIRED	6490 SQ. FT.	14700 SQ. FT.	7430 SQ. FT.	12980 CU. FT.	11750 SQ. FT.	7910 SQ. FT.	3700 SQ. FT.	7010 SQ. FT.	3920. SQ. FT.	1860 SQ. FT.	3790 CU. FT.	3680 SQ. FT.	3580 SQ. FT.	2610 SQ. FT.	2420 SQ. FT.	4440 SQ. FT.	1490 SQ. FT.
SURFACE AREA PROVIDED	30480 SQ. FT.	30670 SQ. FT	37860 SQ. FT.	25250 CU. FT.	26900 SQ. FT.	19140 SQ. FT.	19340 SQ. FT.	14000 SQ. FT.	20350 SQ. FT.	4780 SQ. FT.	4780 SQ. FT.	6940 SQ. FT.	6940 SQ. FT.	5940 SQ. FT.	5940 SQ. FT.	12640 SQ. FT.	3020 SQ. FT.
DRAINAGE AREA	4.59 AC.	12.24 AC.	7.93 AC.	9.51 AC.	8.31 AC.	5.76 AC.	2.66 AC.	5.46 AC.	3.11 AC.	1.76 AC.	3.67 AC.	3.59 AC.	3.39 AC.	2.54 AC.	2.30 AC.	4.89 AC.	1.41 AC.

SKIMMER DESIGN TABLE

SEDIMENT TRAP ID	DRAWDOWN	SKIMMER TYPE
SCM-A	3 DAYS	1-4 INCH SKIMMERS WITH A 3.6 INCH ORIFICE
SCM-B	3 DAYS	1-4 INCH SKIMMERS WITH A 3.4 INCH ORIFICE
SCM-C	3 DAYS	1-2.5 INCH SKIMMERS WITH A 2.2 INCH ORIFICE
SCM-E	3 DAYS	1-4 INCH SKIMMERS WITH A 3 INCH ORIFICE
SCM-F	3 DAYS	1-4 INCH SKIMMERS WITH A 2.8 INCH ORIFICE
SCM-G	3 DAYS	1-3 INCH SKIMMERS WITH A 2.5 INCH ORIFICE
SCM-H	3 DAYS	1-2 INCH SKIMMERS WITH A 1.9 INCH ORIFICE
SCM-I	3 DAYS	1-3 INCH SKIMMERS WITH A 2.5 INCH ORIFICE
SCM-J	3 DAYS	1-2.5 INCH SKIMMERS WITH A 1.9 INCH ORIFICE
ST-1	3 DAYS	1-2 INCH SKIMMERS WITH A 1.3 INCH ORIFICE
ST-2	3 DAYS	1-2 INCH SKIMMERS WITH A 1.6 INCH ORIFICE
ST-3	3 DAYS	1-2 INCH SKIMMERS WITH A 1.6 INCH ORIFICE
ST-4	3 DAYS	1-2 INCH SKIMMERS WITH A 1.5 INCH ORIFICE
ST-5	3 DAYS	1-2 INCH SKIMMERS WITH A 1.3 INCH ORIFICE
ST-6	3 DAYS	1-2 INCH SKIMMERS WITH A 1.3 INCH ORIFICE
ST-7	3 DAYS	1-2 INCH SKIMMERS WITH A 1.8 INCH ORIFICE
ST-8	3 DAYS	1-2 INCH SKIMMERS WITH A 1 INCH ORIFICE

TEMPORARY DIVERSION DITCH DESIGN TABLE

TEMPORARY DIVERSION ID	TD-1	TD-2	TD-3	TD-4	TD-5	TD-6	TD-7	TD-8	TD-9	TD-10	TD-11	TD-12	TD-13
DEPTH	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.
BOTTOM WIDTH	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.
ALLOWABLE VELOCITY	5 FT/SEC	10 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC
CALCULATED VELOCITY	3.85 FT/SEC	5.86 FT/SEC	1.66 FT/SEC	1.48 FT/SEC	1.77 FT/SEC	4.37 FT/SEC	1.92 FT/SEC	3.13 FT/SEC	2.998 FT/SEC	2.29 FT/SEC	2.00 FT/SEC	2.35 FT/SEC	2.20 FT/SEC
ALLOWABLE SHEAR STRESS	1.55 LB/FT^2	2.25 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2
CALCULATED SHEAR STRESS	1.09 LB/FT^2	1.55 LB/FT^2	.52 LB/FT^2	.46 LB/FT^2	.59 LB/FT^2	1.51 LB/FT^2	1.07 LB/FT^2	.94 LB/FT^2	.91 LB/FT^2	.73 LB/FT^2	.80 LB/FT^2	.98 LB/FT^2	.81 LB/FT^2
PERMANENT LINER SPECIFICATION	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
TEMPORARY LINER SPECIFICATION	ERONET DS75	ERONET C125	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75
SLOPE DRAIN SIZE (DIAMETER)	12 IN.	12 IN.	12 IN.	12 IN.	12 IN.	18 IN.	12 IN.	15 IN.	15 IN.	12 IN.	12 IN.	12 IN.	12 IN.

TEMPORARY DIVERSION ID	TD-14	TD-15	TD-16	TD-17	TD-18	TD-19	TD-20	TD-21	TD-22	TD-23	TD-24	TD-25	TD-26
DEPTH	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.	1.5 FT.
BOTTOM WIDTH	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.	0 FT.
ALLOWABLE VELOCITY	5 FT/SEC	5 FT/SEC	8 FT/SEC	5 FT/SEC	9 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC	5 FT/SEC
CALCULATED VELOCITY	1.80 FT/SEC	2.93 FT/SEC	3.93 FT/SEC	2.76 FT/SEC	6.48 FT/SEC	1.83 FT/SEC	2.29 FT/SEC	1.73 FT/SEC	1.85 FT/SEC	2.19 FT/SEC	2.99 FT/SEC	2.54 FT/SEC	1.98 FT/SEC
ALLOWABLE SHEAR STRESS	1.55 LB/FT^2	1.55 LB/FT^2	2.00 LB/FT^2	1.55 LB/FT^2	8.0 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2	1.55 LB/FT^2
CALCULATED SHEAR STRESS	.55 LB/FT^2	.82 LB/FT^2	1.92 LB/FT^2	1.51 LB/FT^2	2.44 LB/FT^2	.71 LB/FT^2	.69 LB/FT^2	.60 LB/FT^2	.62 LB/FT^2	.71 LB/FT^2	.86 LB/FT^2	.75 LB/FT^2	.65 LB/FT^2
PERMANENT LINER SPECIFICATION	NONE	NONE	NONE	NONE	ERONET P300	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
TEMPORARY LINER SPECIFICATION	ERONET DS75	ERONET DS75	ERONET SC150	ERONET DS75	ERONET C125	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75	ERONET DS75
SLOPE DRAIN SIZE (DIAMETER)	12 IN.	15 IN.	15 IN.	12 IN.	18 IN.	12 IN.	12 IN.	12 IN.	12 IN.	12 IN.	15 IN.	15 IN.	12 IN.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: ____________________ Date: ______________
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: ____________________ Date: ______________
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

MCADAMS
The John R. McAdams Company, Inc.
621 Hillsborough Street
Suite 500
Raleigh, NC 27603
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

CLIENT

D.R. HORTON, INC.
7208 FALLS OF NEUSE ROAD, SUITE 201
RALEIGH, NC 27615
PHONE: 919. 809. 4207

D·R·HORTON America's Builder

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC-N1
CHECKED BY	RKB
DRAWN BY	
SCALE	NTS
DATE	02. 27. 2024

SHEET

EROSION CONTROL NOTES

C6.00

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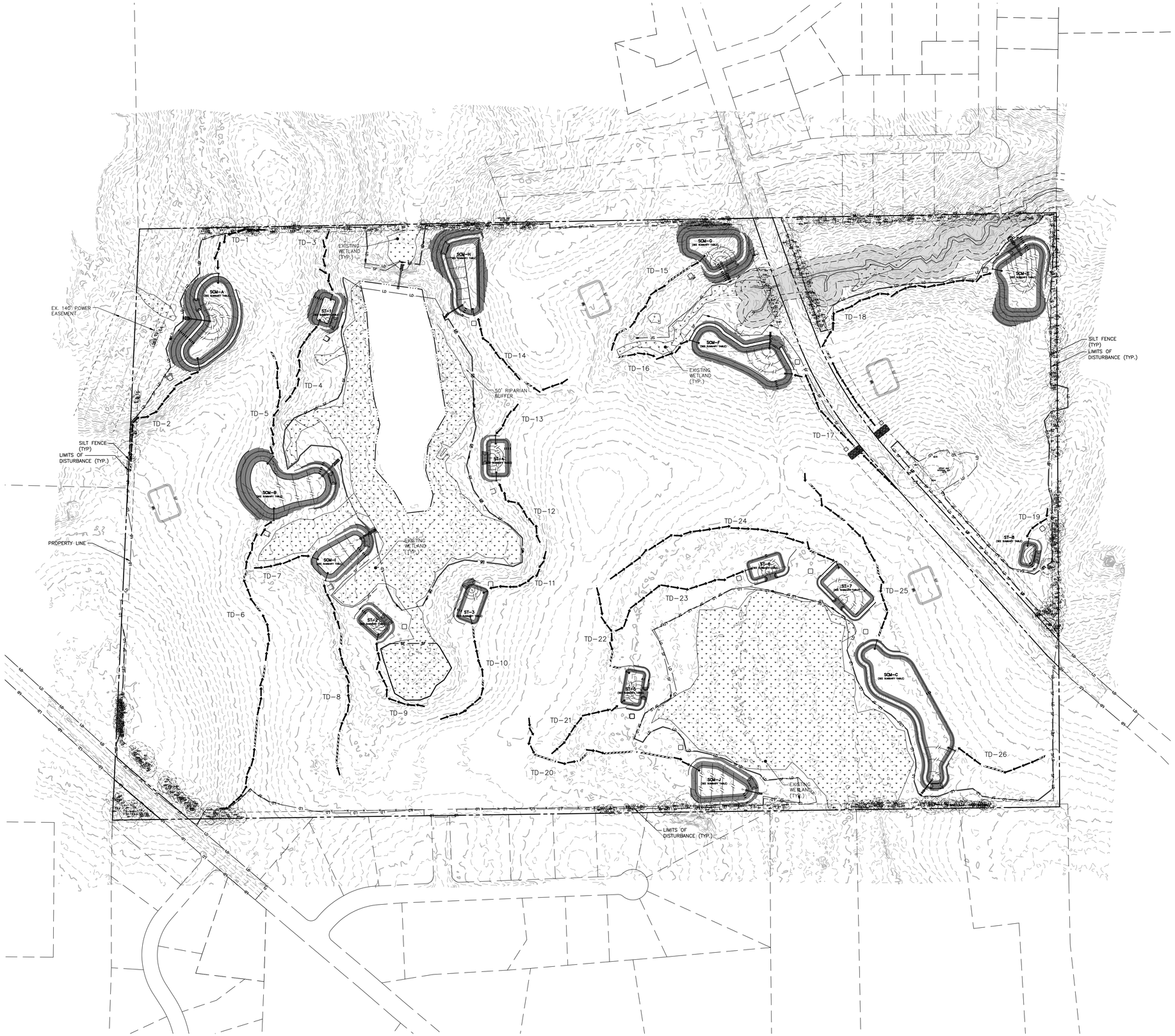

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE

0 75 150 300

1 INCH = 150 FT.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
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ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

OVERALL EROSION CONTROL PLAN

C6.01

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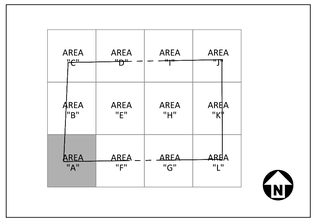

KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SILT FENCE
- TP — TREE PROTECTION FENCE
- LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
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Administrator

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ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 - AREA "A"

C6.02

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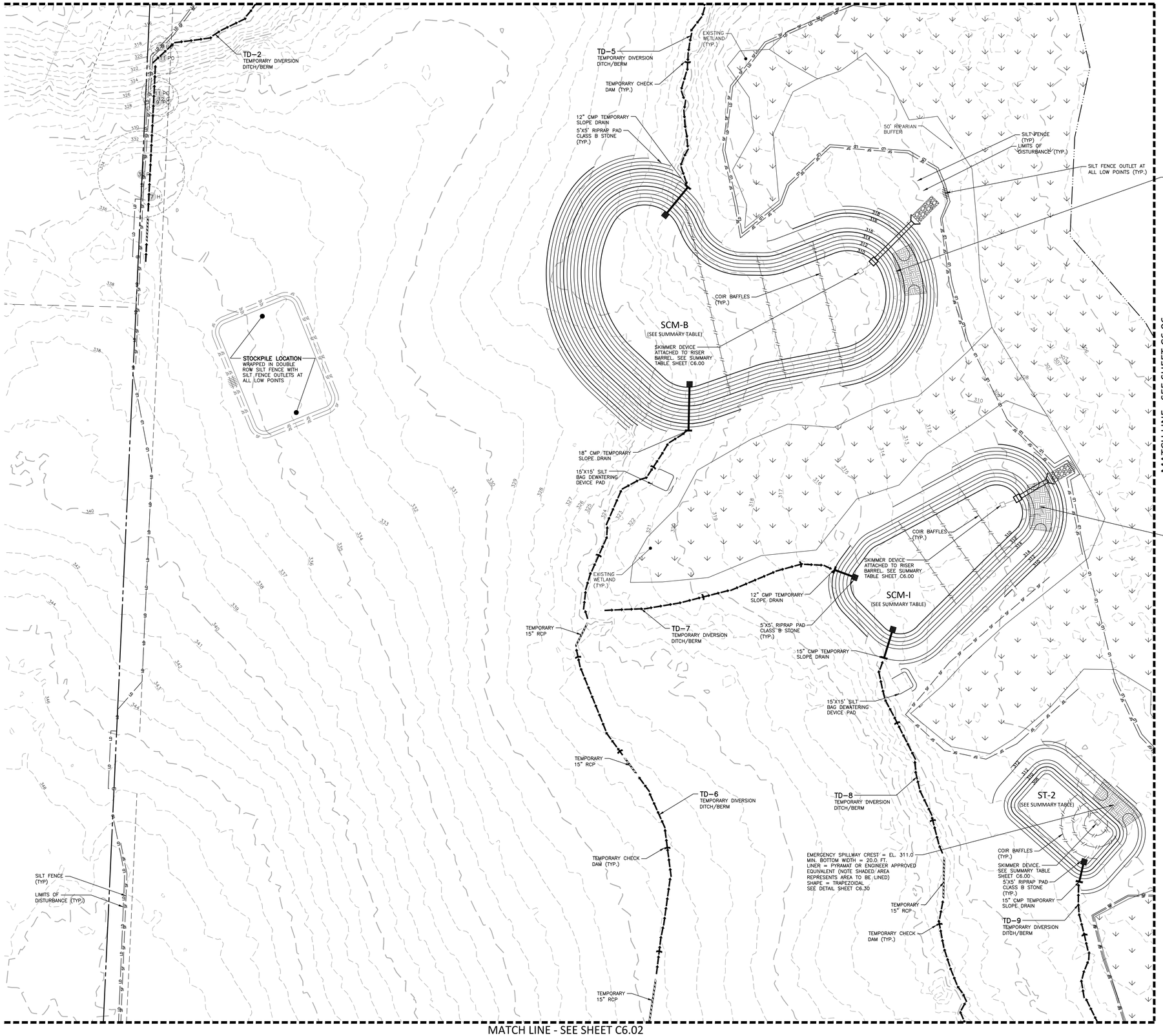
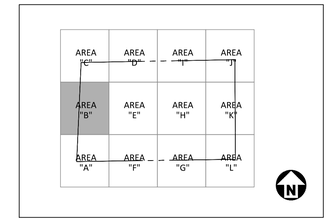
MATCH LINE - SEE SHEET C6.04



MATCH LINE - SEE SHEET C6.02



KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 - AREA "B"

C6.03

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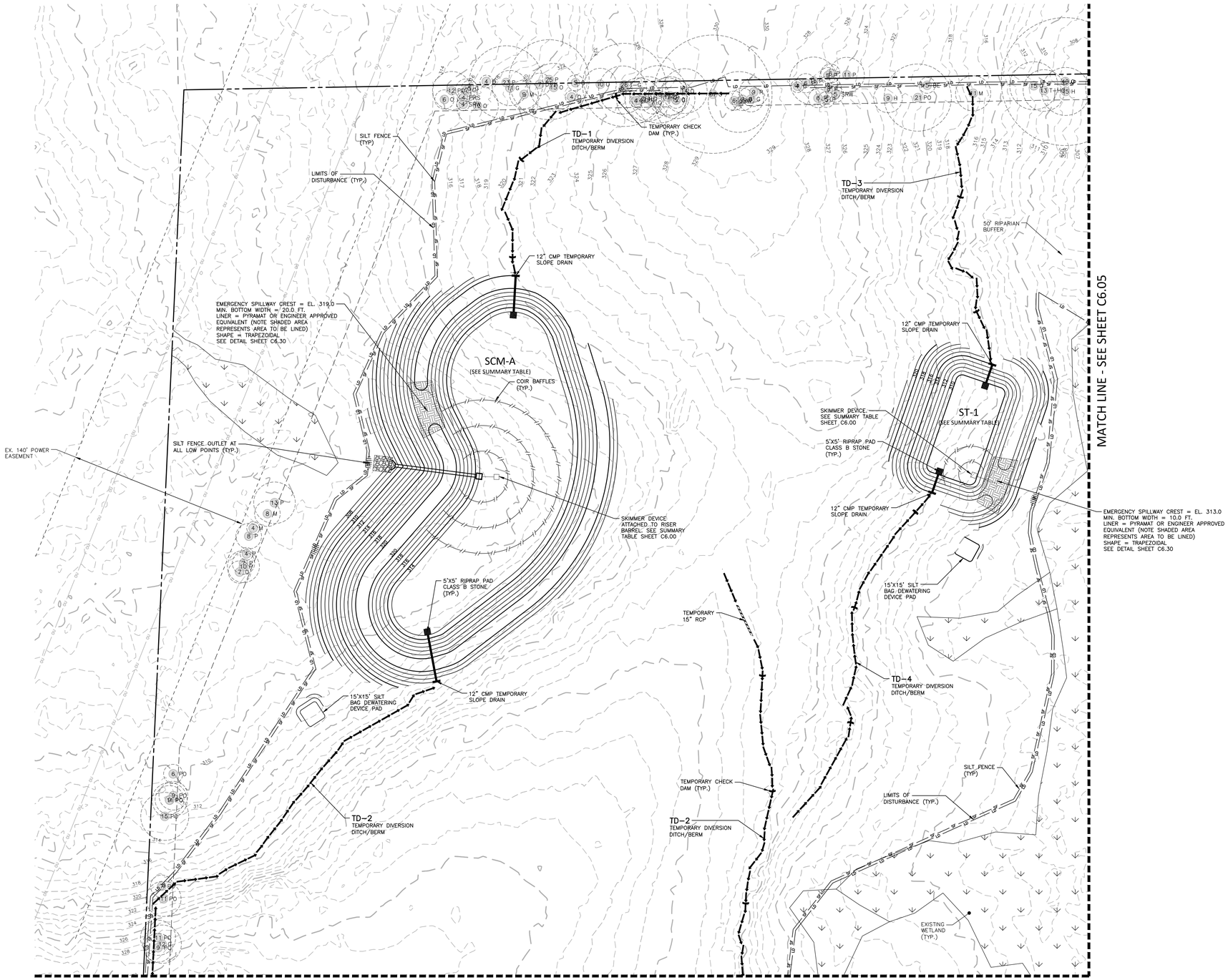

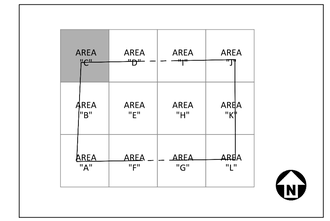

KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
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By: _____ Date: _____
Administrator

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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 - AREA "C"

C6.04

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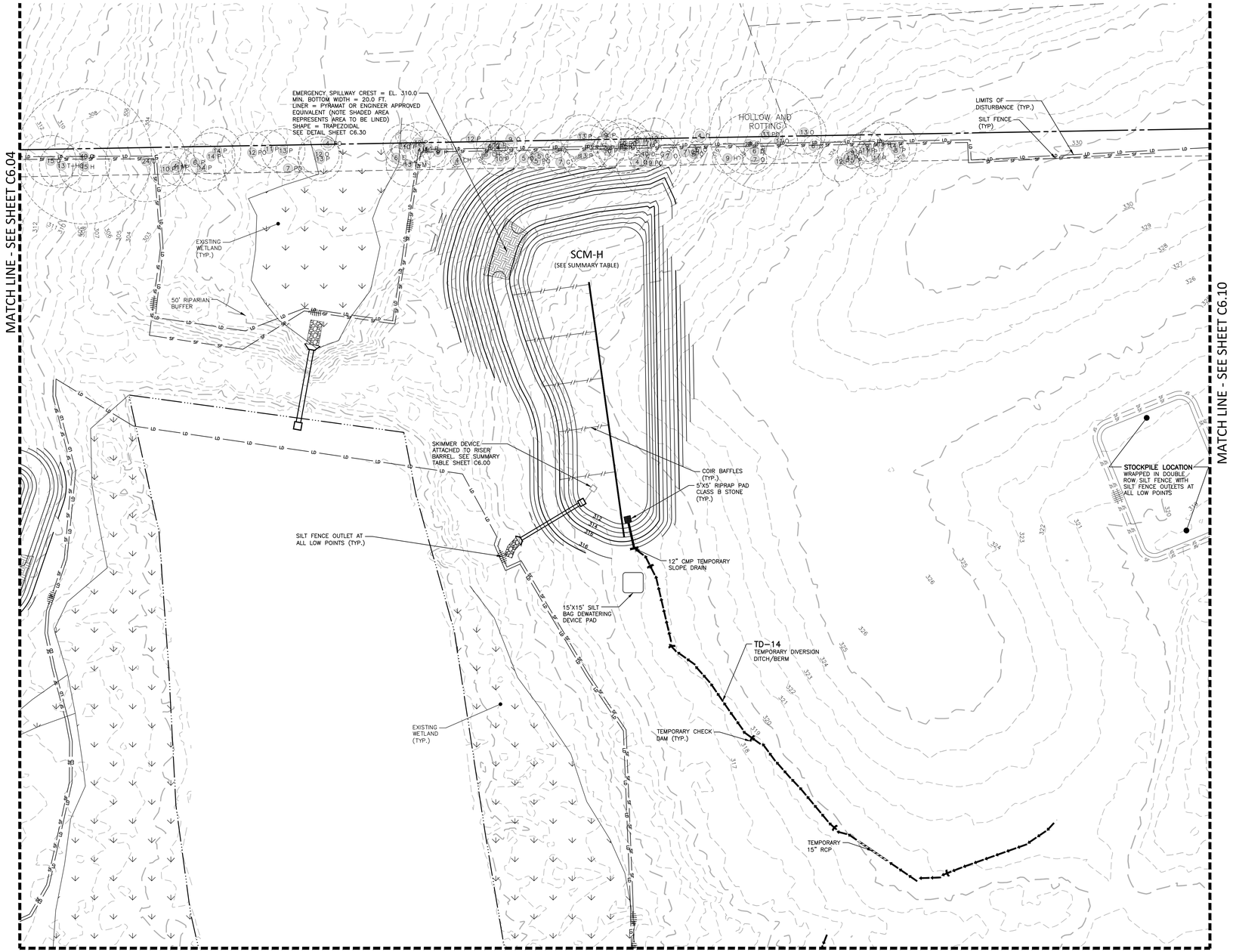

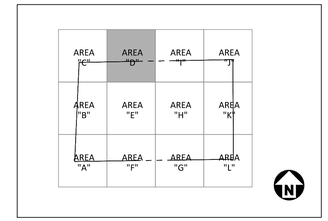

KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

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NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 - AREA "D"

C6.05

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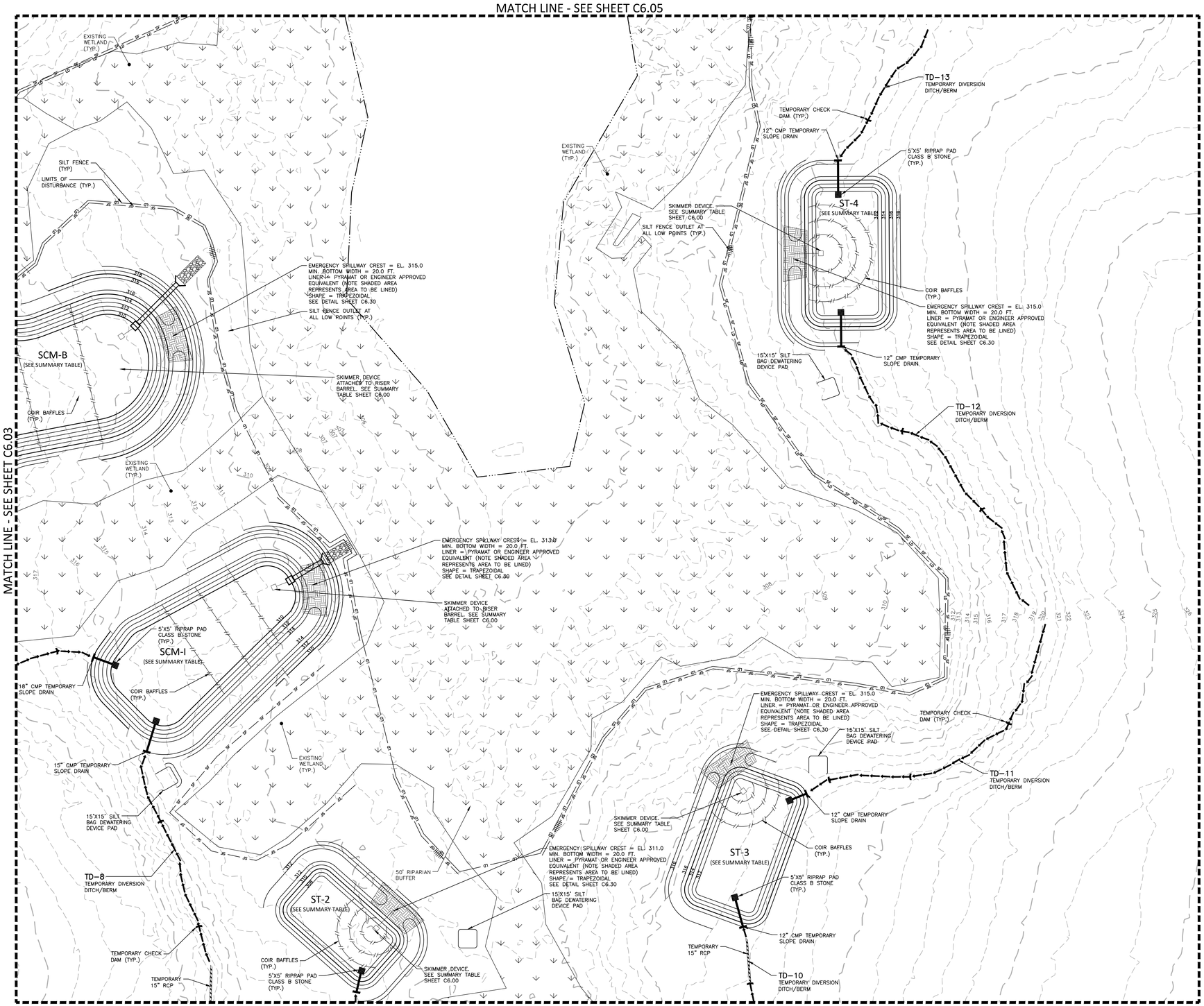

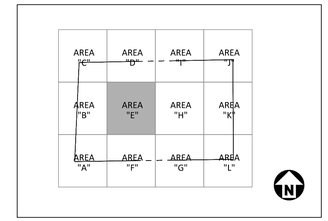

KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
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- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

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ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARNER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 - AREA "E"

C6.06

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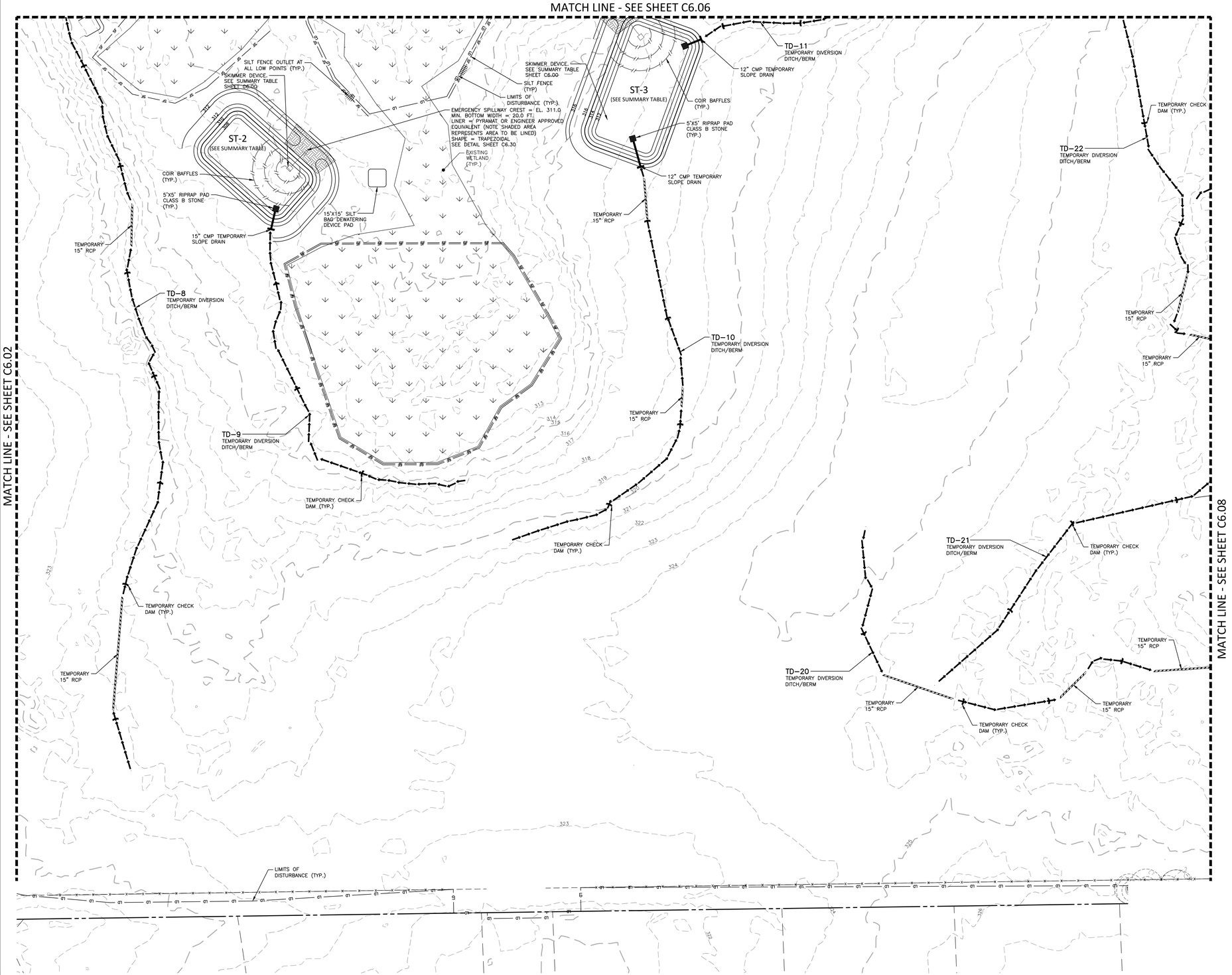

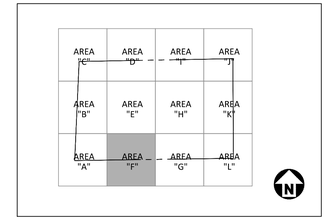

KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
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N

GRAPHIC SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 - AREA "F"

C6.07

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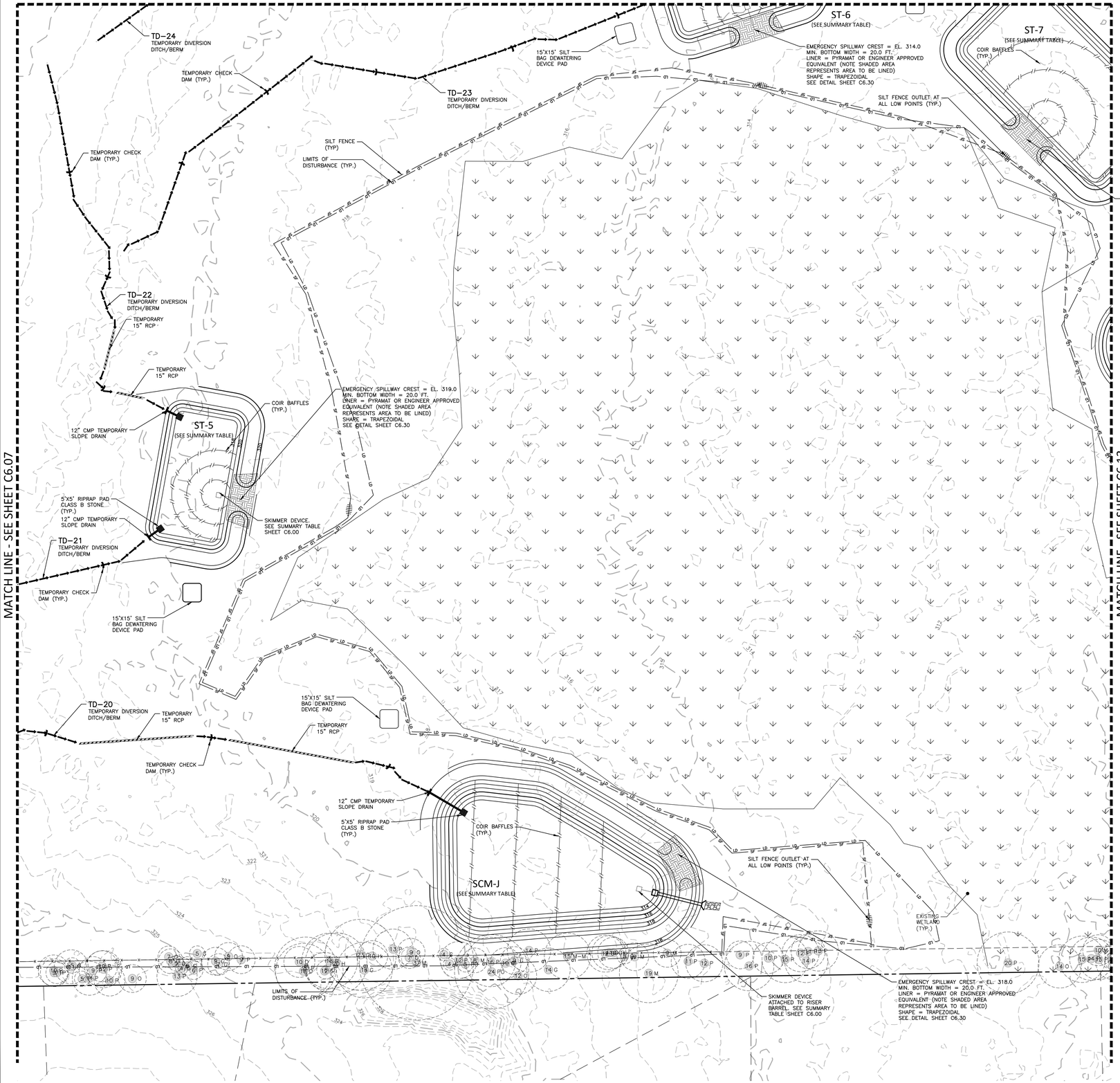

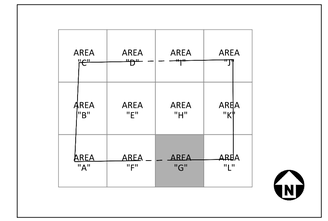

KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SILT FENCE
- TP — TREE PROTECTION FENCE
- LD — LIMITS OF DISTURBANCE
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- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

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NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN
STAGE 1 - AREA "G"

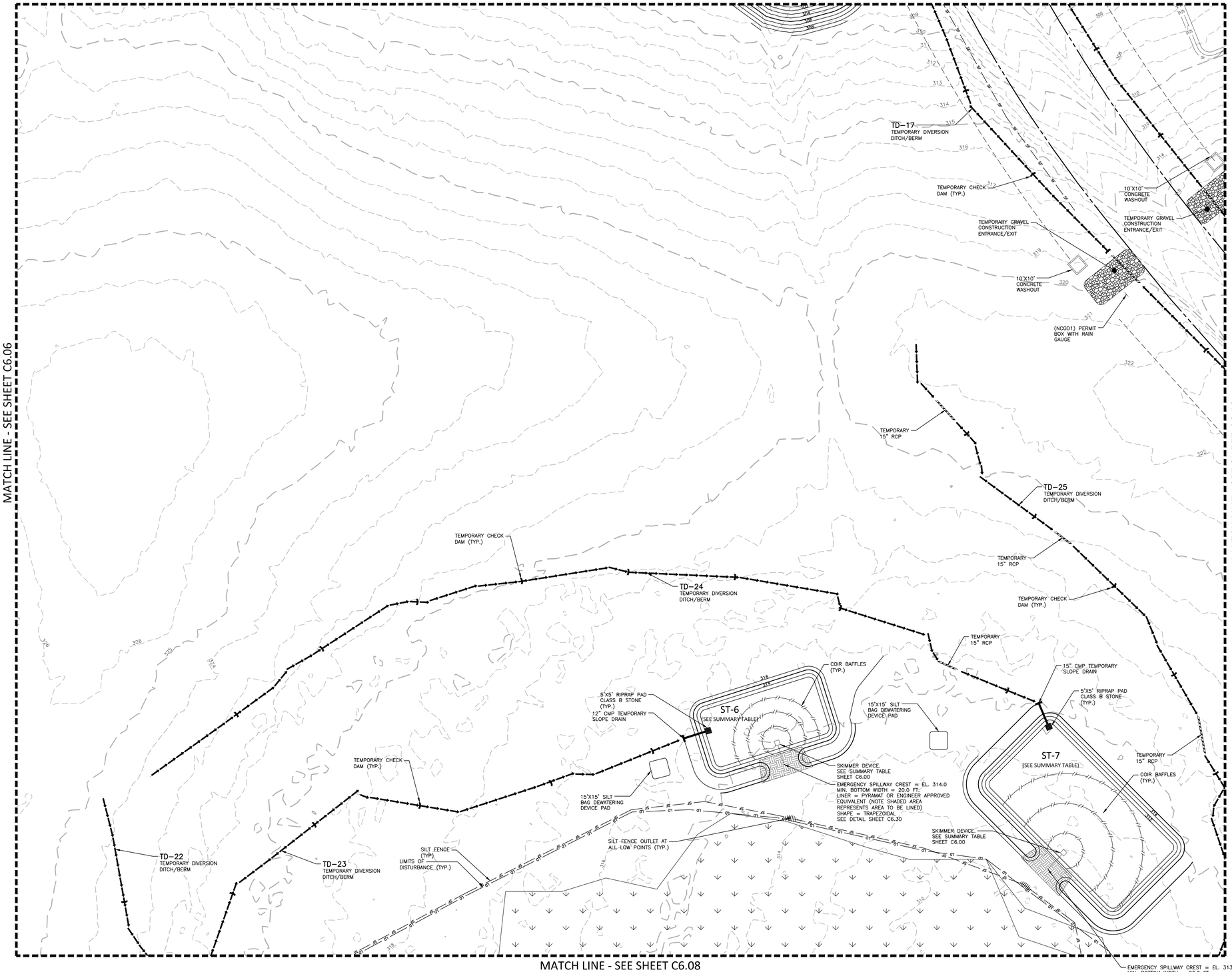
C6.08

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-EC1.dwg, 2/27/2024 4:27:42 PM, Zach Lee

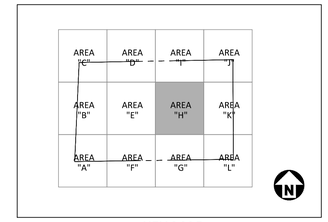
MATCH LINE - SEE SHEET C6.10

MATCH LINE - SEE SHEET C6.06

MATCH LINE - SEE SHEET C6.12



MATCH LINE - SEE SHEET C6.08



KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

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Administrator

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1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER BRIAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN
STAGE 1 - AREA "H"

C6.09

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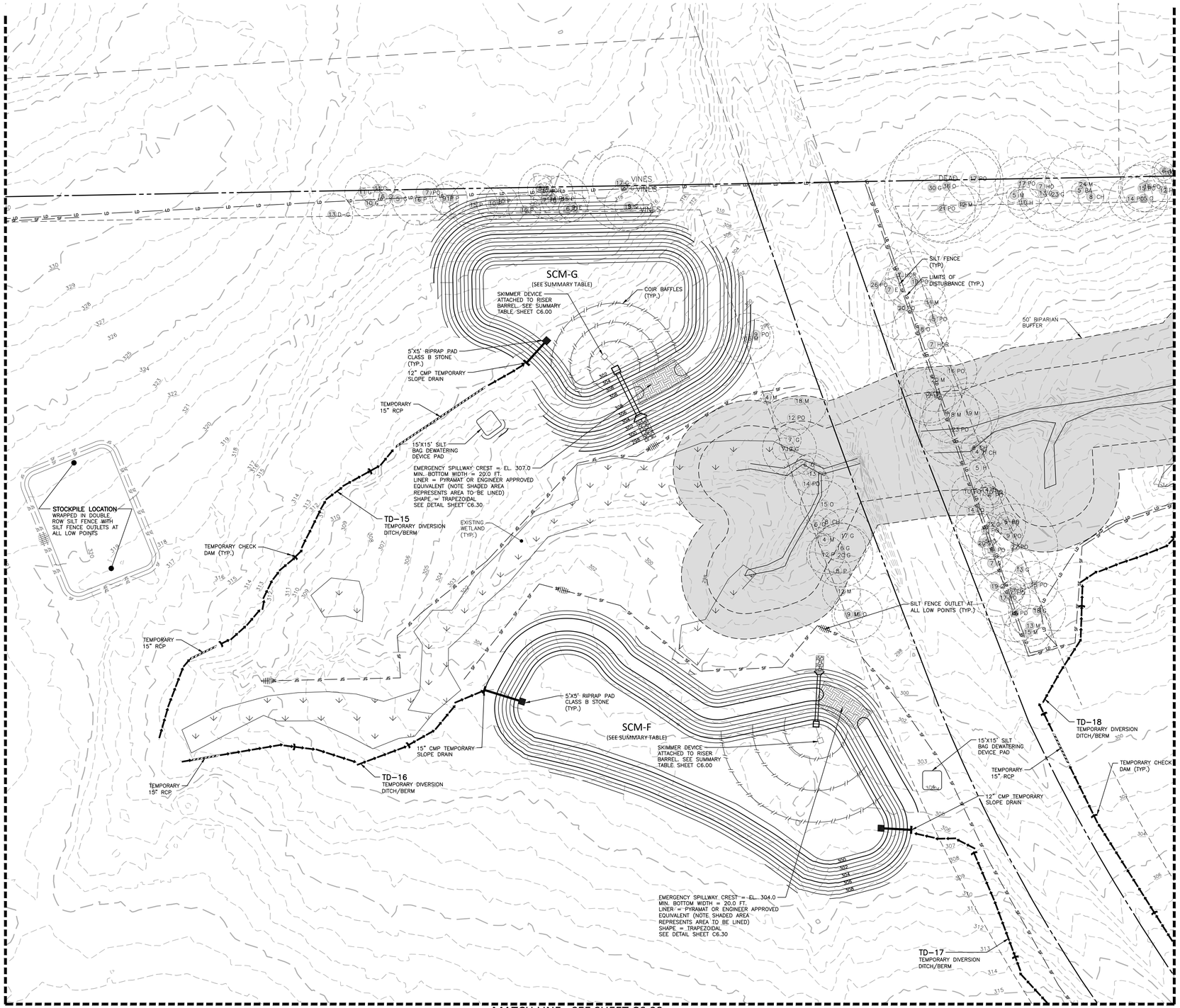

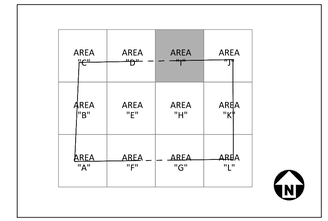

KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
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- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

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NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 - AREA "I"

C6.10

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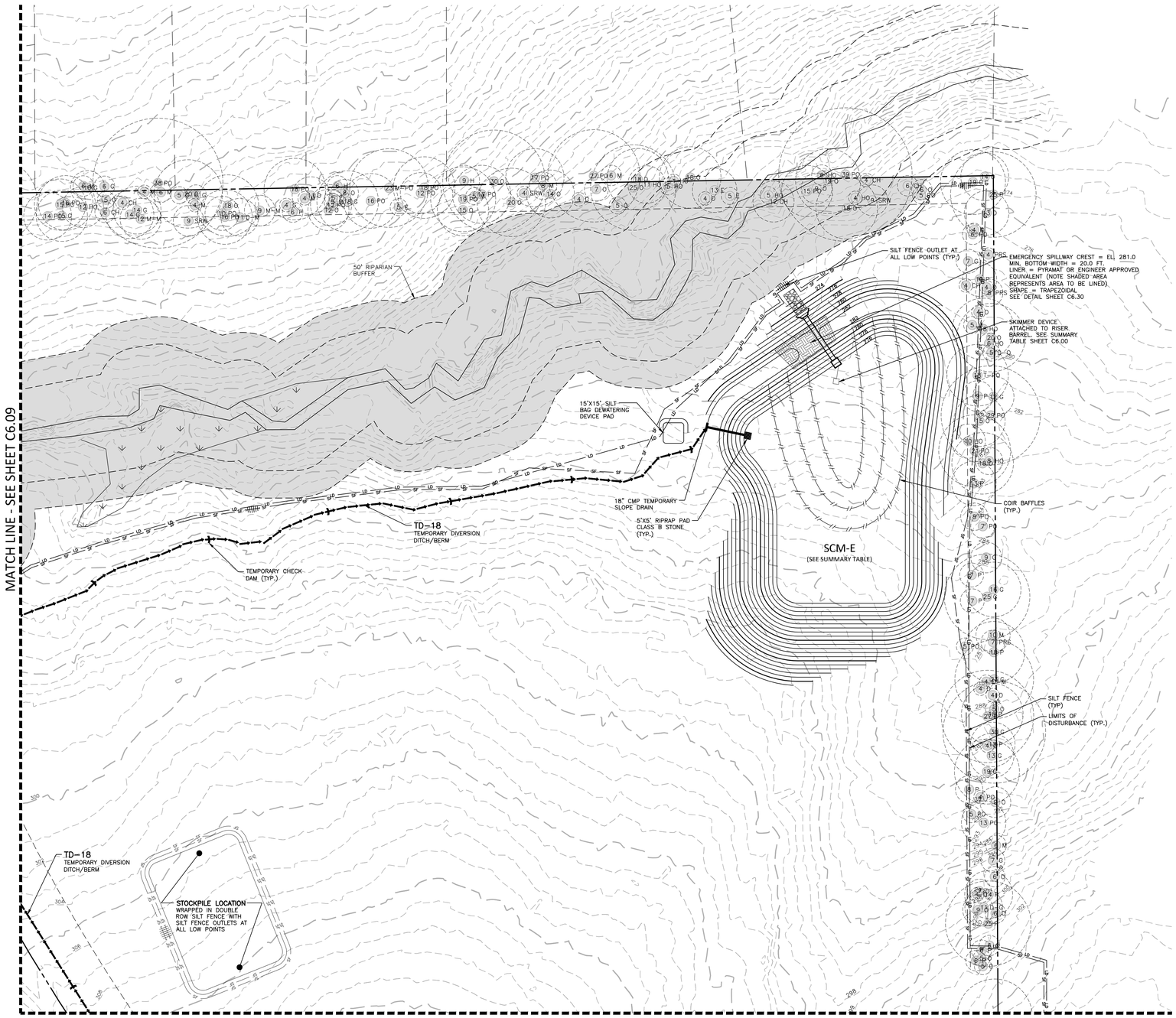

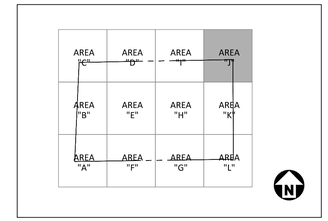

KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
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N

GRAPHIC SCALE

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1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN STAGE 1 - AREA "J"

C6.11

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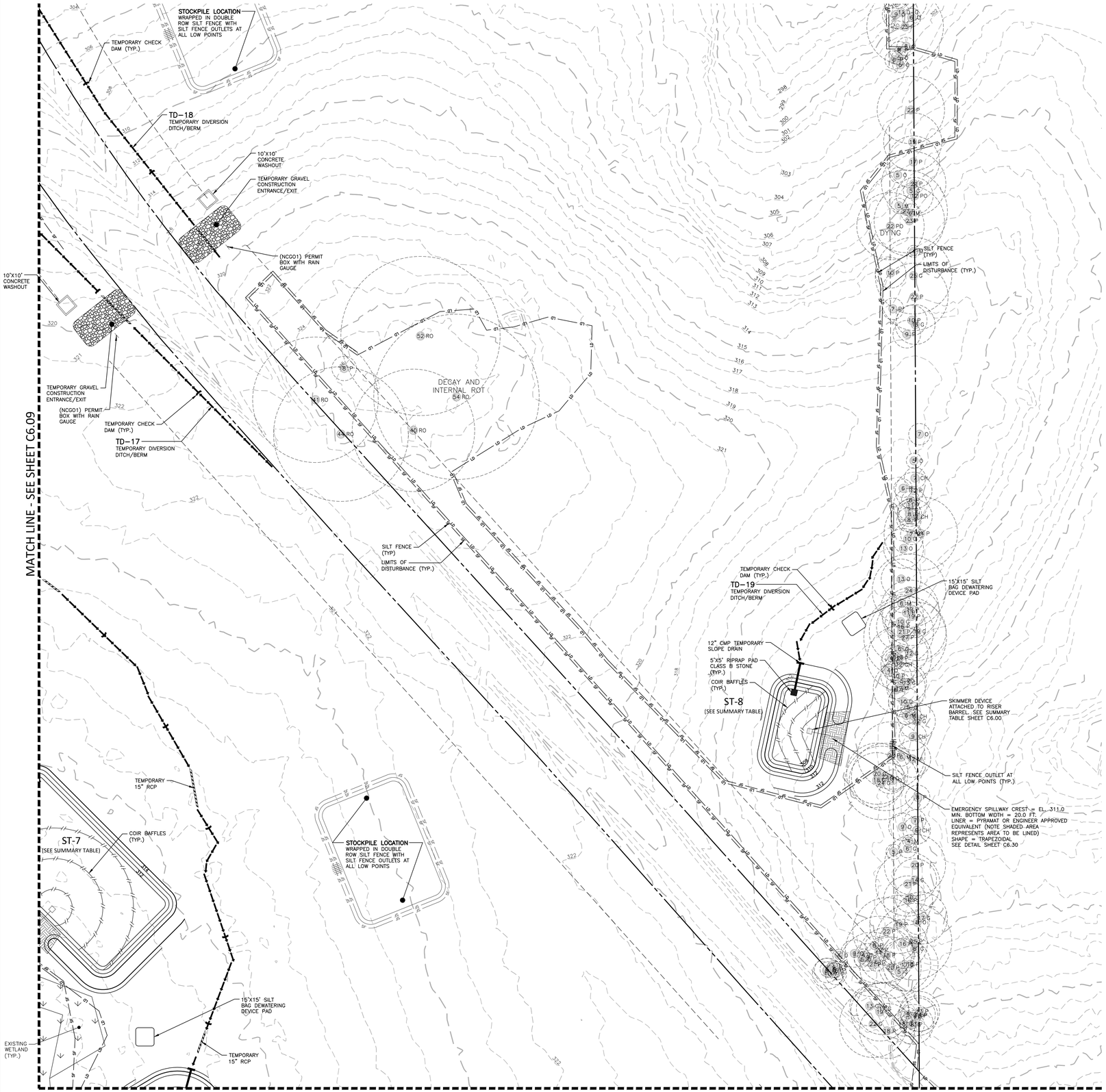
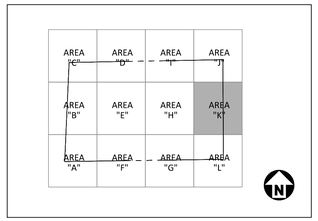
MATCH LINE - SEE SHEET C6.11



MATCH LINE - SEE SHEET C6.13



KEY MAP

EROSION CONTROL LEGEND

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- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
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GRAPHIC SCALE

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ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN
STAGE 1 - AREA "K"

C6.12

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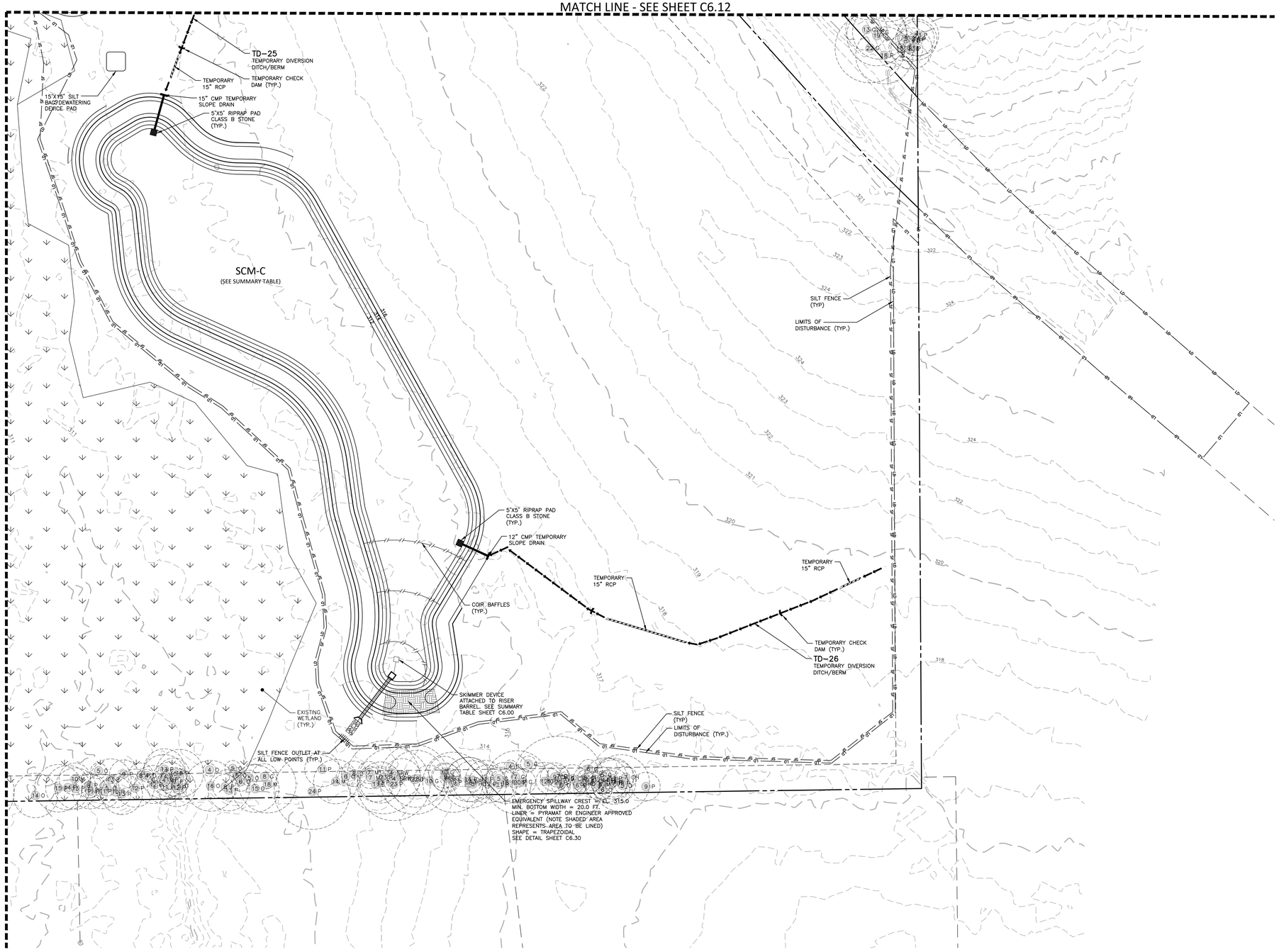
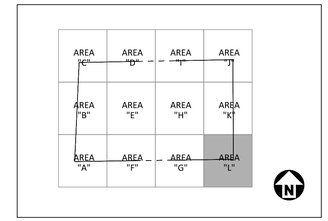
MATCH LINE - SEE SHEET C6.12

MATCH LINE - SEE SHEET C6.08





KEY MAP

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
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Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

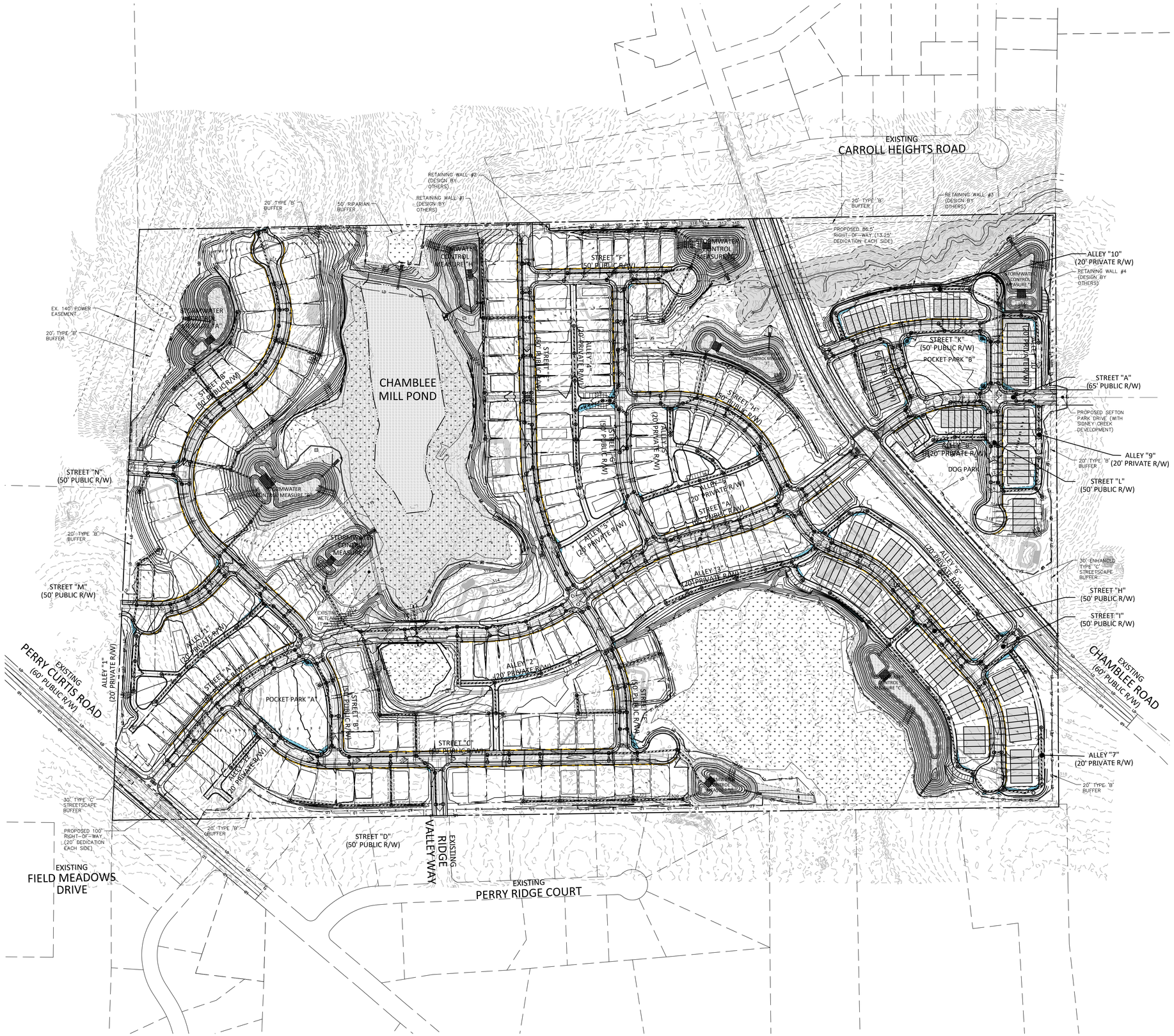
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC1
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN
STAGE 1 - AREA "L"
C6.13

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-EC1.dwg, 2/27/2024 4:27:53 PM, Zach Lee



EROSION CONTROL LEGEND

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- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
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- WOODED AREA
- DIVERSION DITCH
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N

GRAPHIC SCALE
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REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

OVERALL EROSION CONTROL PLAN
C6.20

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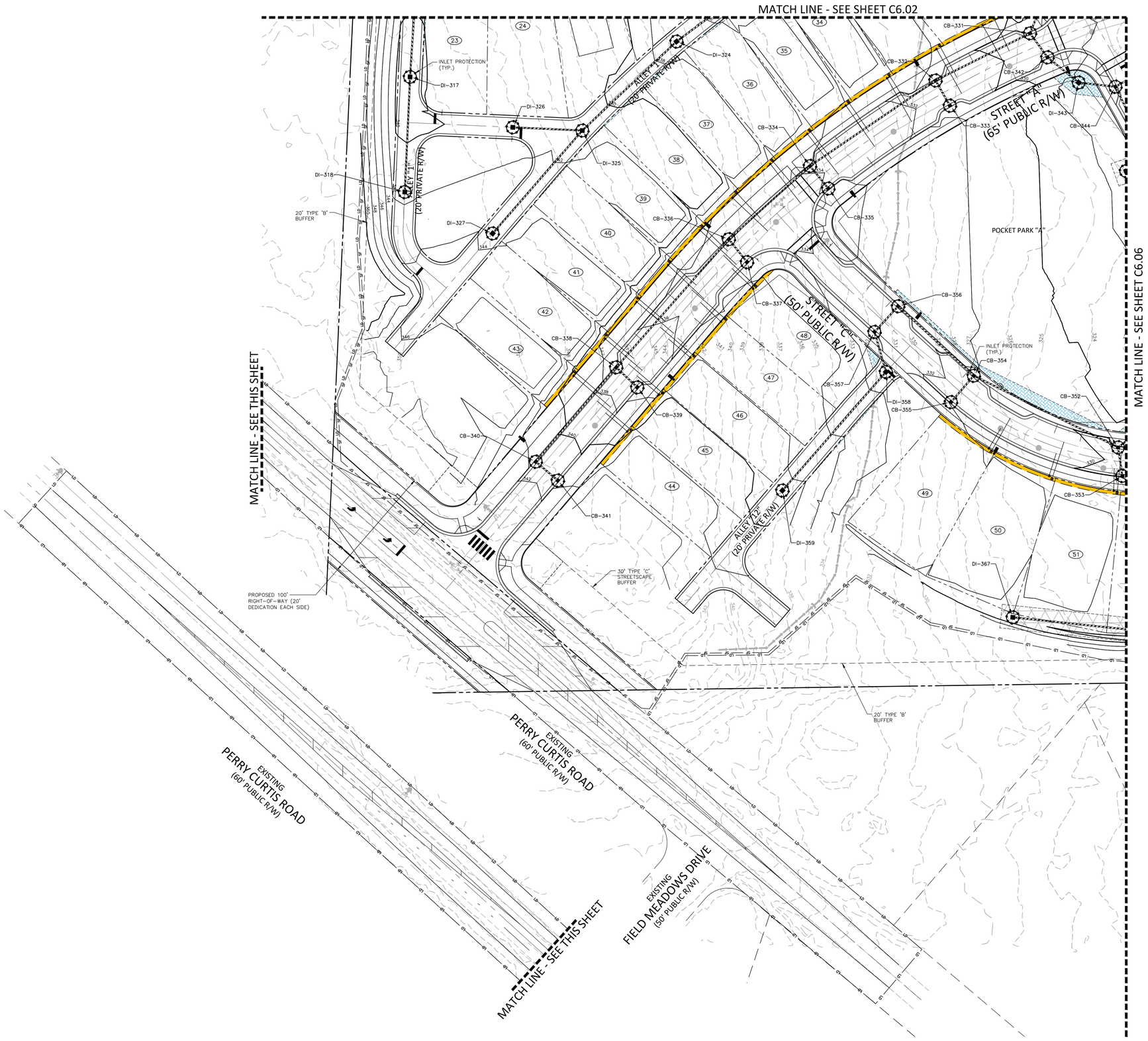

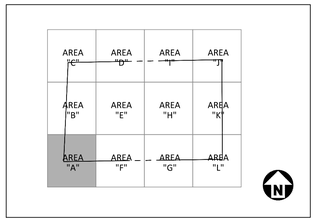

KEY MAP

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
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- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN AREA "A"

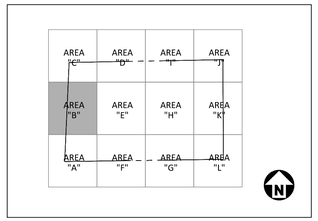
C6.21

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-EC2.dwg, 2/27/2024 4:28:16 PM, Zach Lee

MATCH LINE - SEE SHEET C6.03

MATCH LINE - SEE SHEET C6.05

MATCH LINE - SEE SHEET C6.01



KEY MAP

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

EROSION CONTROL LEGEND

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- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049483 RYAN K. BARKER
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REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN AREA "B"

C6.22

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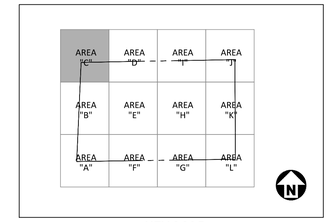

KEY MAP

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
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N

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

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NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RAM K. BARKER
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REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN AREA "C"

C6.23

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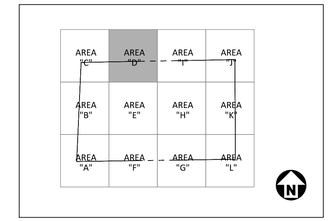

KEY MAP

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

EROSION CONTROL LEGEND

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- INLET PROTECTION FOR EXISTING STRUCTURES
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GRAPHIC SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
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REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN AREA "D"

C6.24

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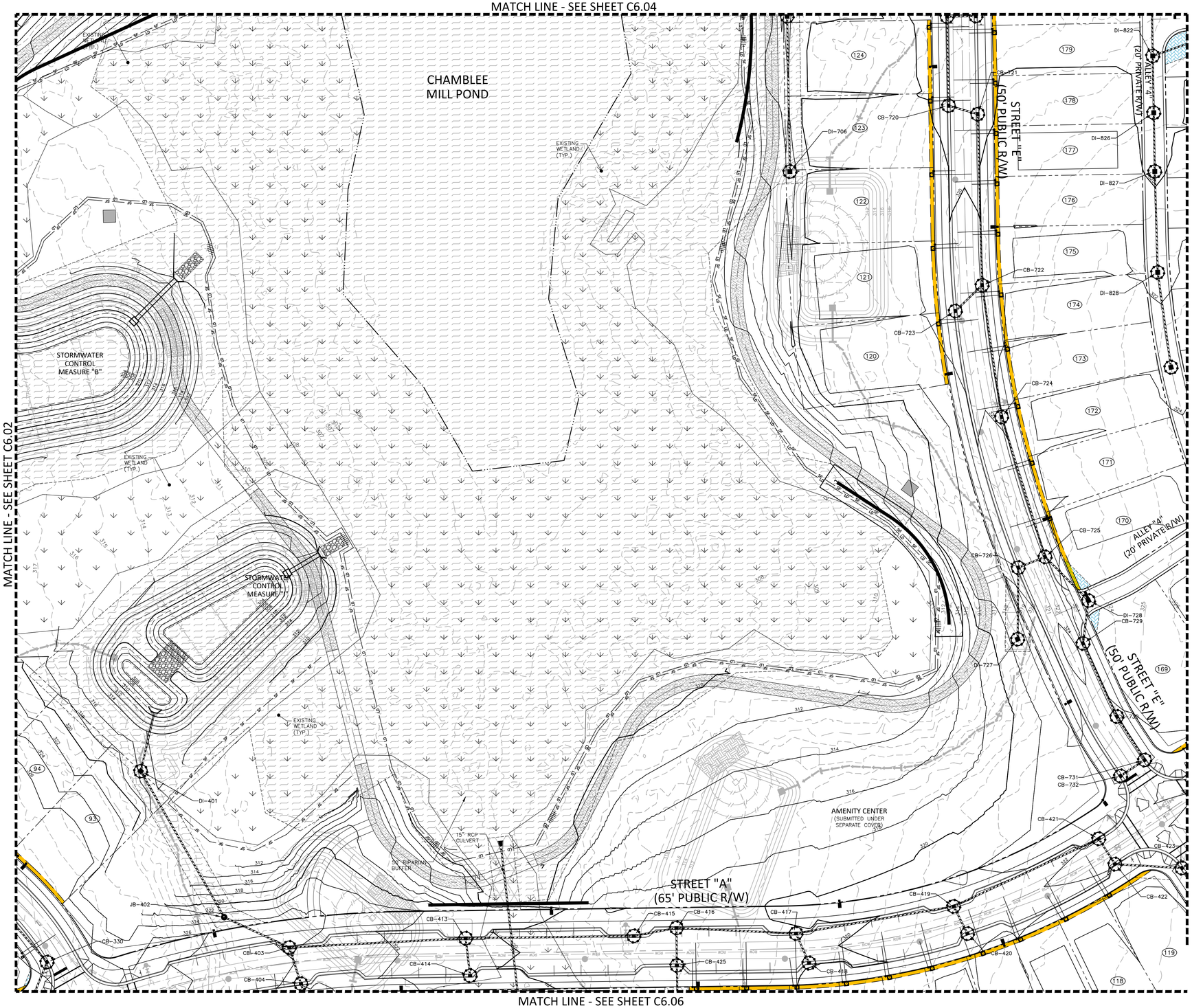

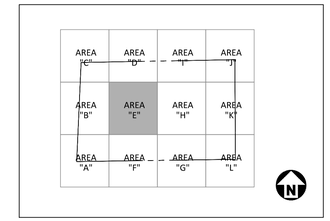

KEY MAP

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
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- TEMPORARY SLOPE DRAIN
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- CHECK DAM
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N

GRAPHIC SCALE
0 20 40 80
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NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN AREA "E"

C6.25

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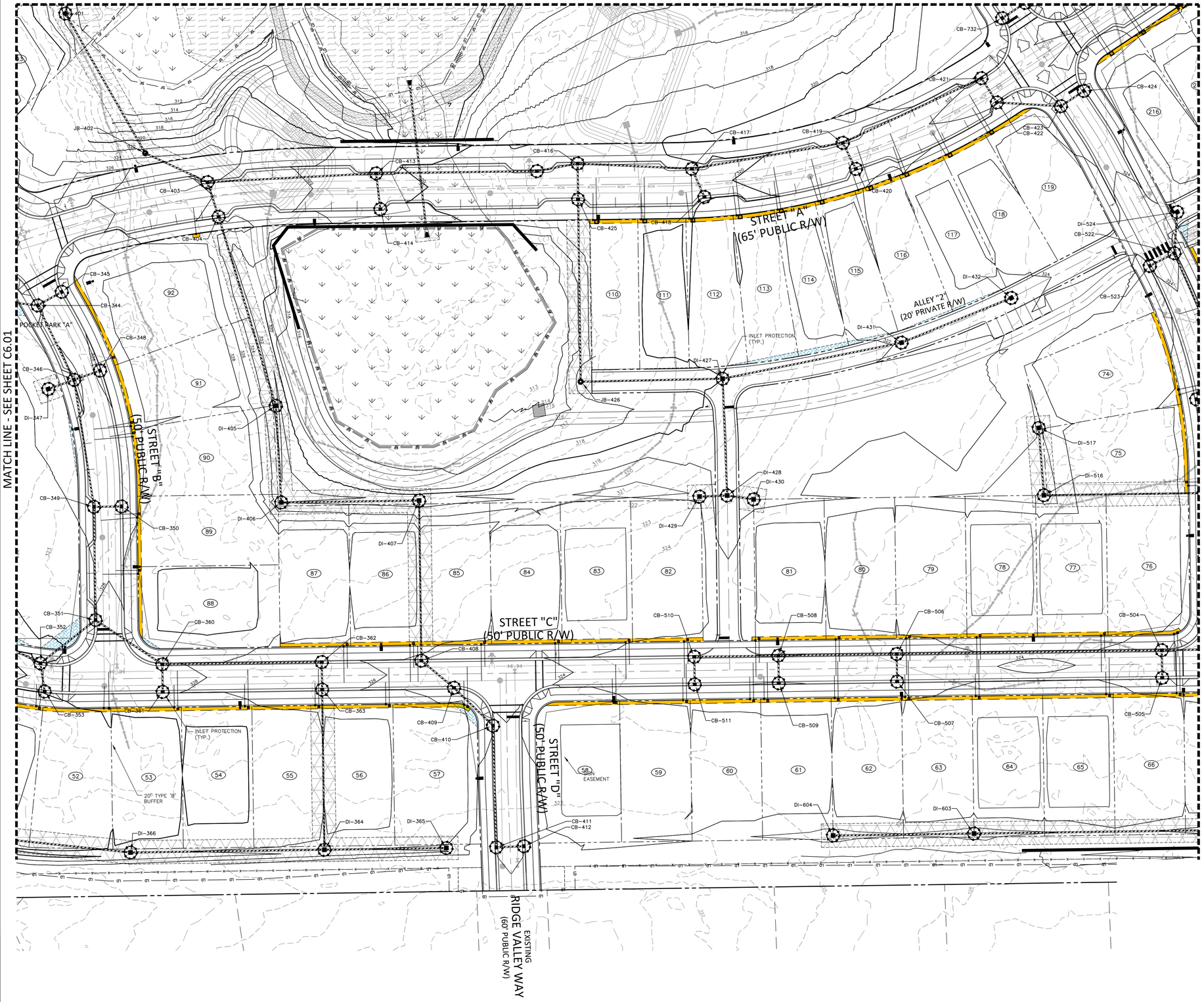
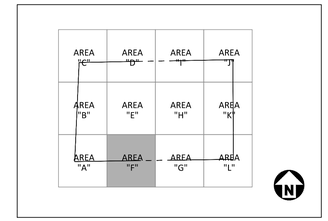
MATCH LINE - SEE SHEET C6.05

MATCH LINE - SEE SHEET C6.01

MATCH LINE - SEE SHEET C6.07





KEY MAP

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
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N

GRAPHIC SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

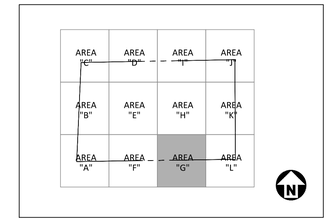
PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN AREA "F"

C6.26

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-EC2.dwg, 2/27/2024 4:28:31 PM, Zach Lee



KEY MAP

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
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EROSION CONTROL LEGEND

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1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

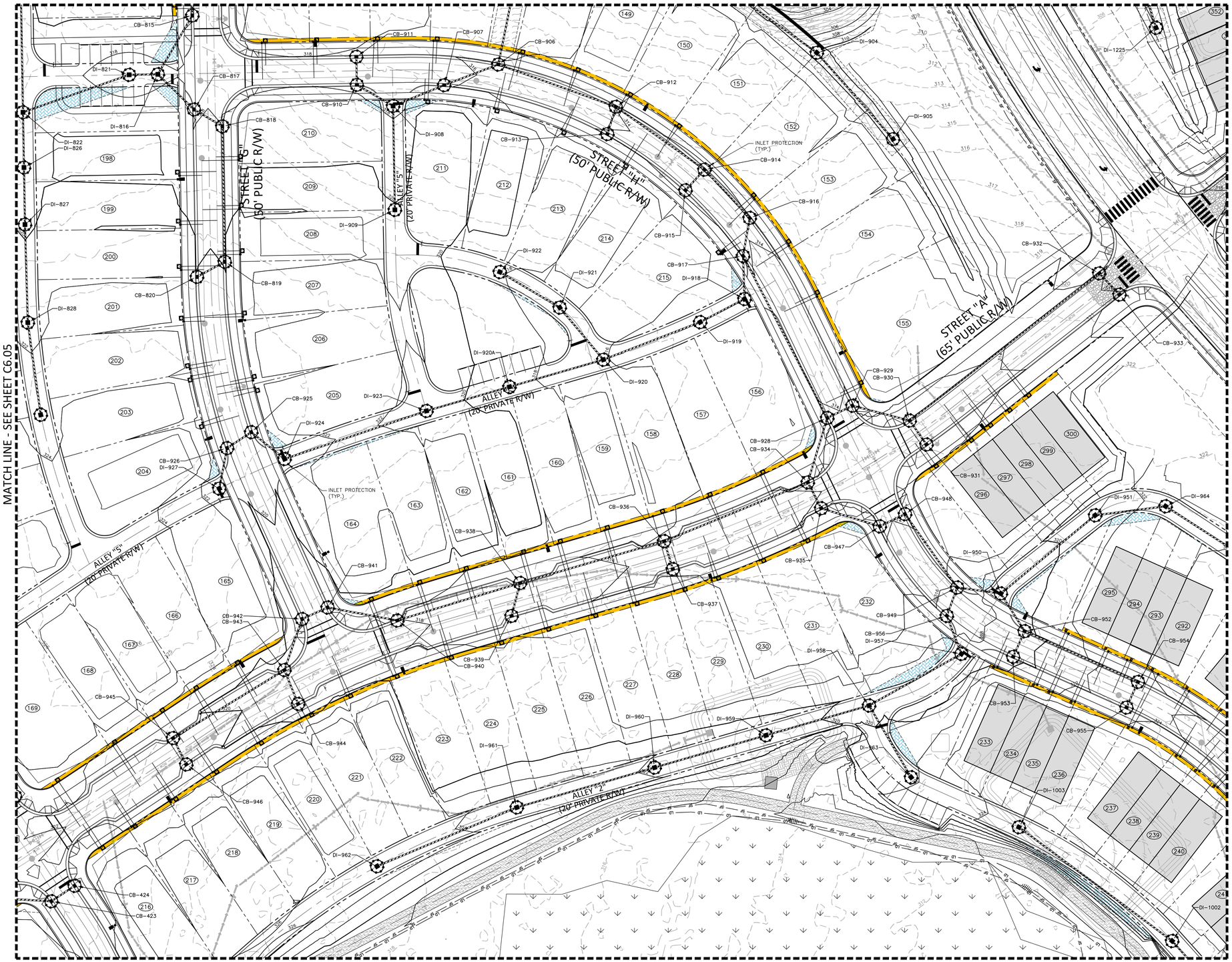
SHEET

EROSION CONTROL PLAN AREA "G"

C6.27

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-EC2.dwg, 2/27/2024 4:28:34 PM, Zach Lee

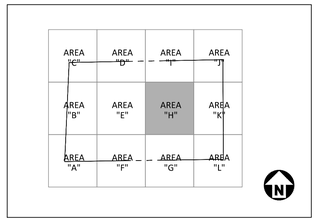
MATCH LINE - SEE SHEET C6.09



MATCH LINE - SEE SHEET C6.05

MATCH LINE - SEE SHEET C6.11

MATCH LINE - SEE SHEET C6.07



KEY MAP

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SILT FENCE
- TP — TREE PROTECTION FENCE
- LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE

0 20 40 80

1 inch = 40 ft.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS

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fax 919. 361. 2269
license number: C-0293, C-187

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PHONE: 919. 809. 4207

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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

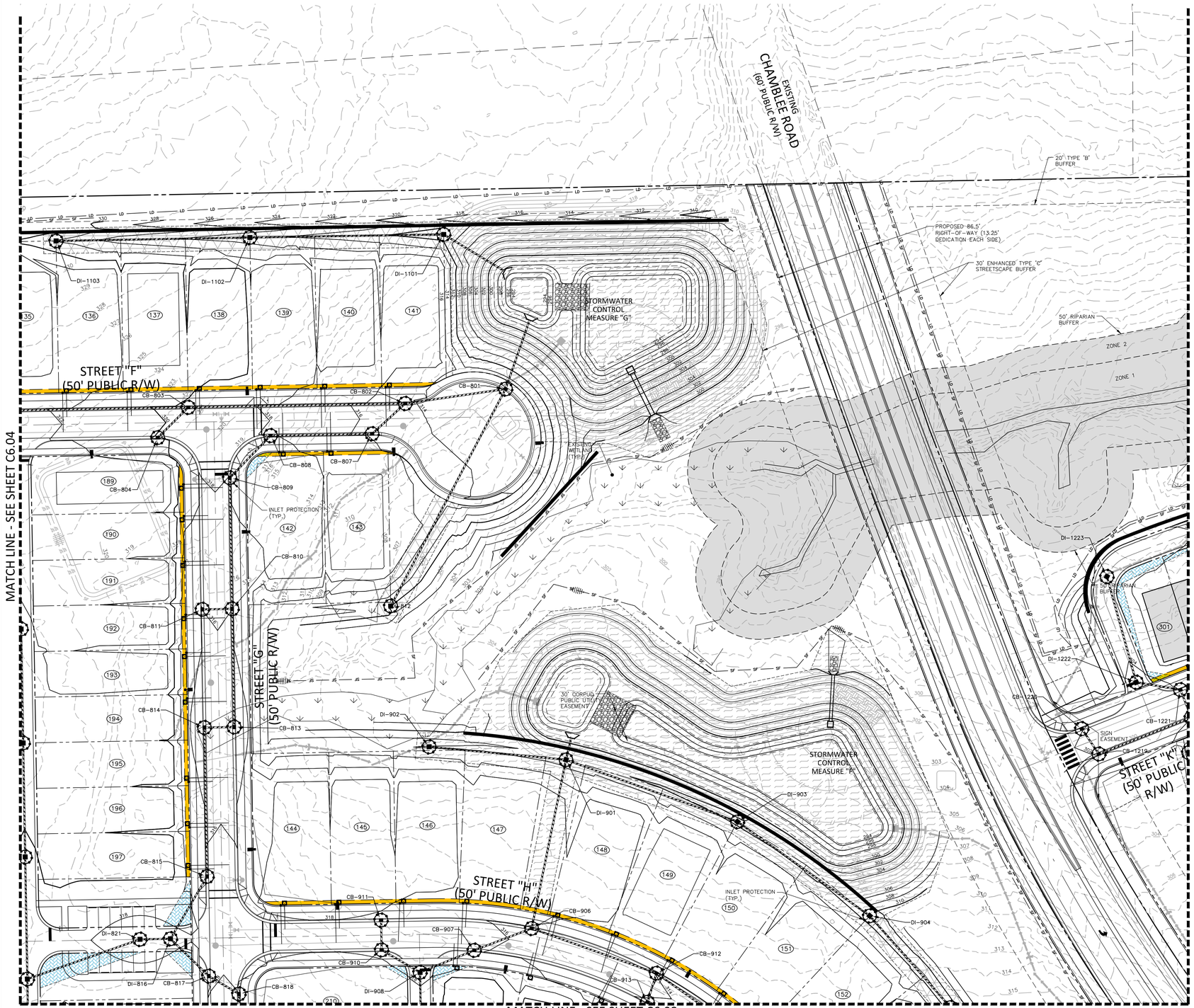
PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

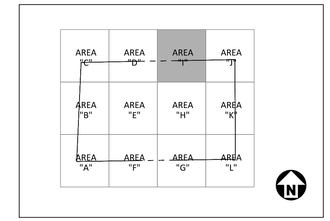
SHEET

EROSION CONTROL PLAN AREA "H"

C6.28

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-EC2.dwg, 2/27/2024 4:28:37 PM, Zach Lee





KEY MAP

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

N

GRAPHIC SCALE
0 20 40 80
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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

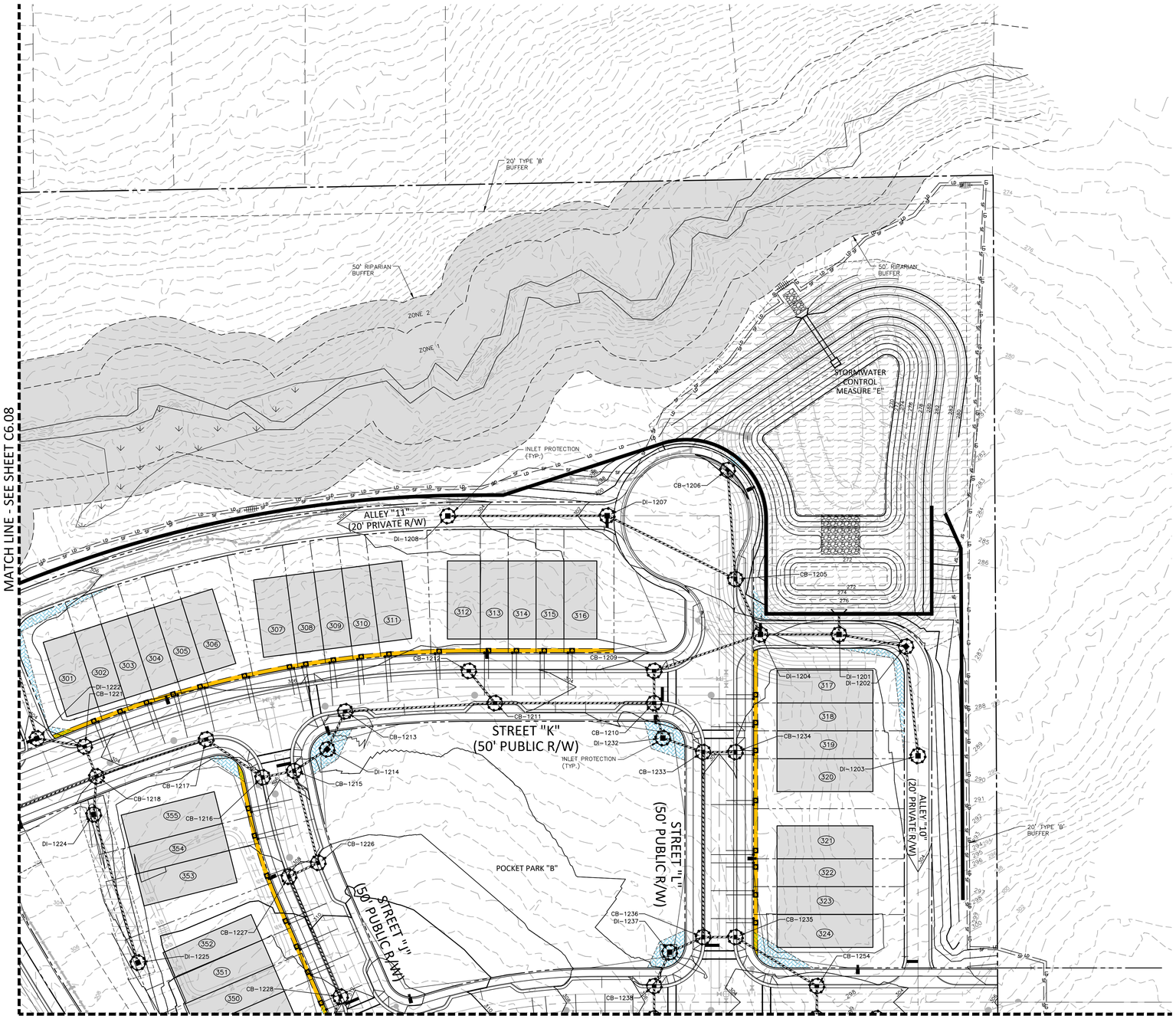
PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

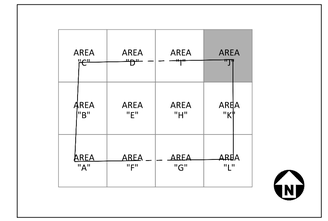
SHEET

EROSION CONTROL PLAN AREA "I"

C6.29

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-EC2.dwg, 2/27/2024 4:28:40 PM, Zach Lee





KEY MAP

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

EROSION CONTROL LEGEND

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N

GRAPHIC SCALE
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CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

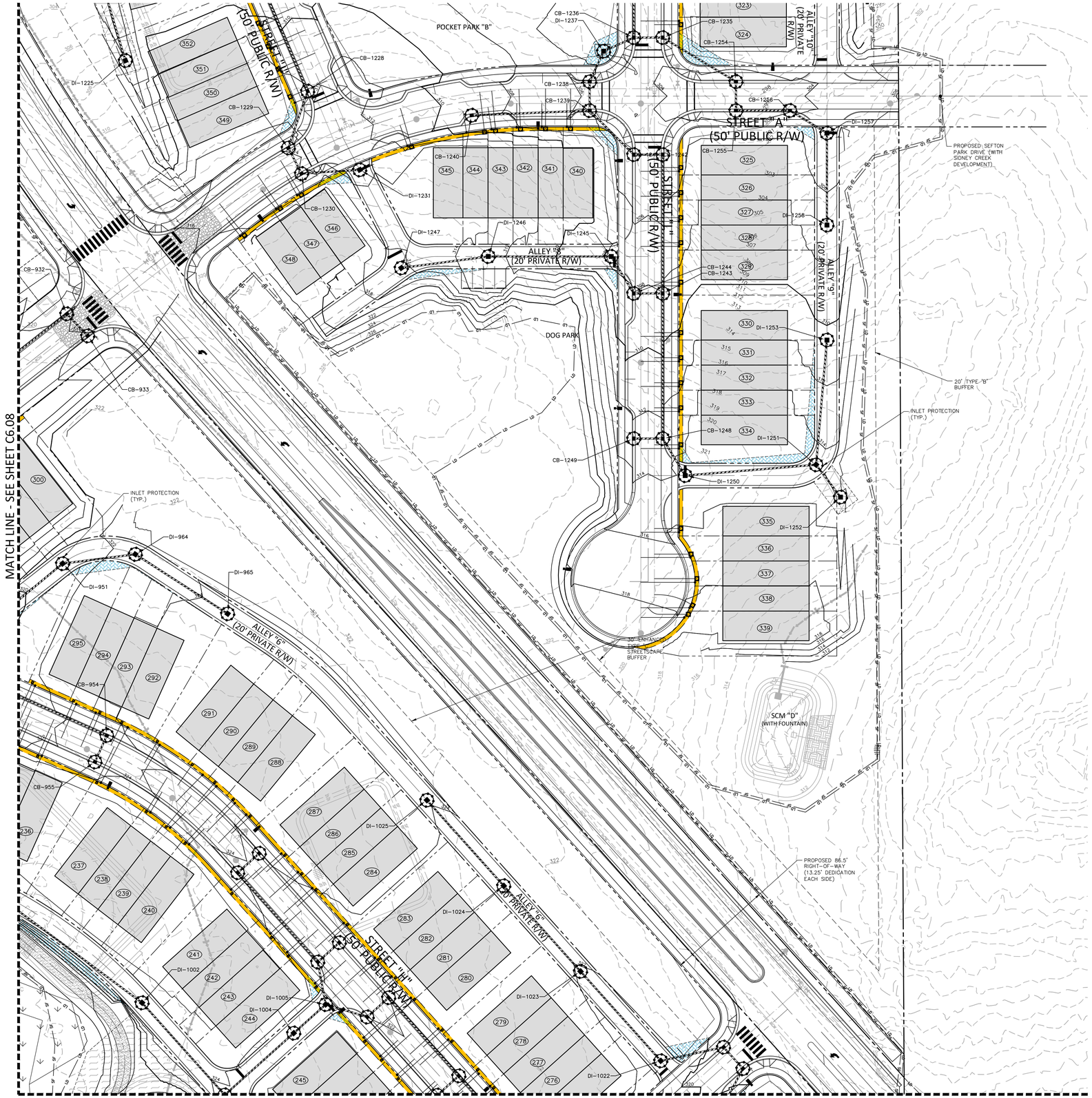
SHEET

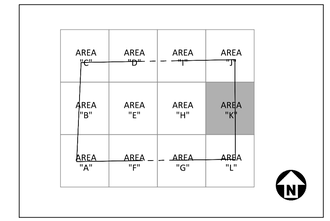
EROSION CONTROL PLAN AREA "J"

C6.30

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawing\DRH22004-EC2.dwg, 2/27/2024 4:28:43 PM, Zach Lee

MATCH LINE - SEE SHEET C6.10





KEY MAP

EASEMENT LEGEND

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- VARIABLE WIDTH SCM ACCESS EASEMENT
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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER BRIAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

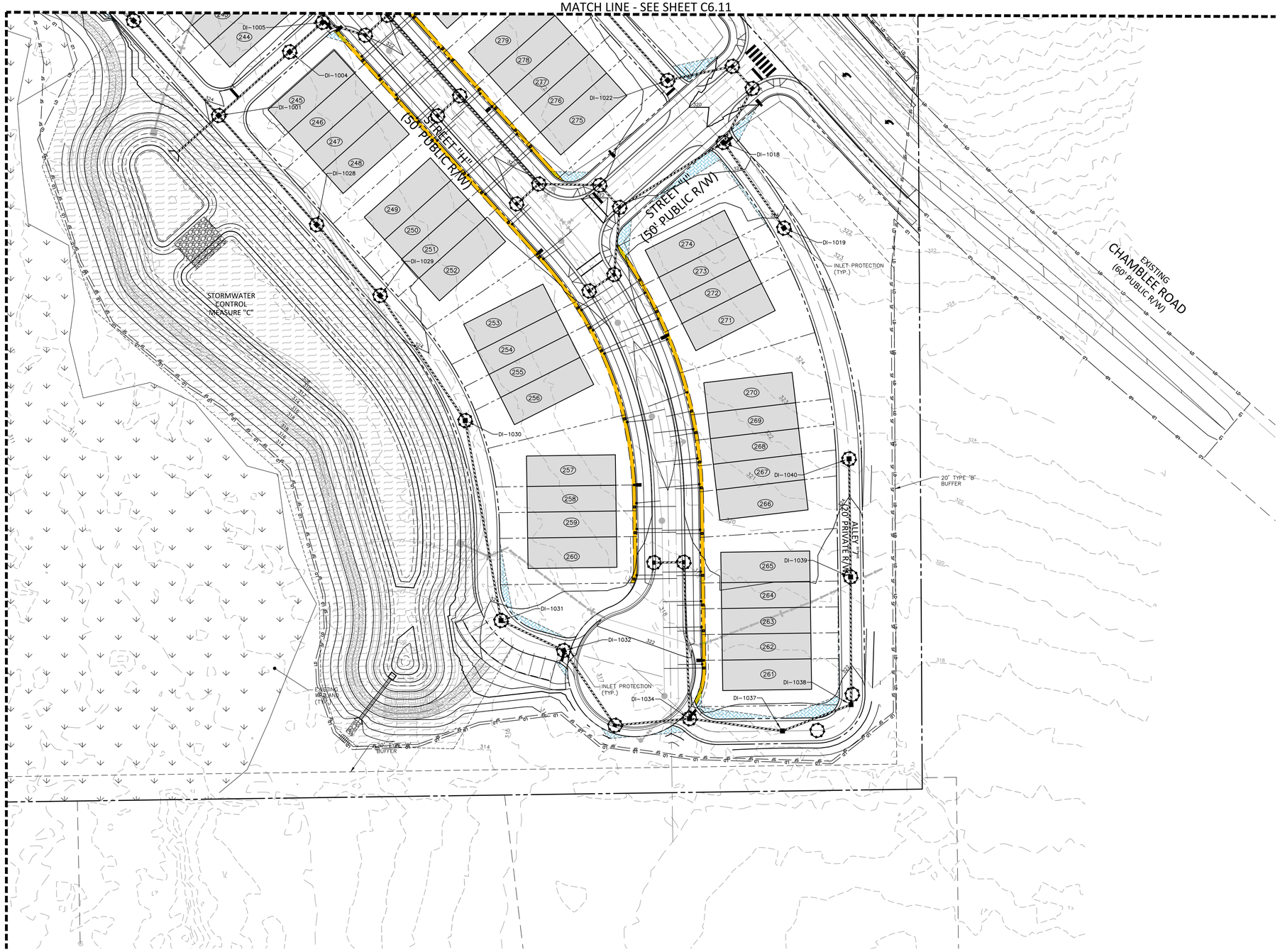
EROSION CONTROL PLAN AREA "K"

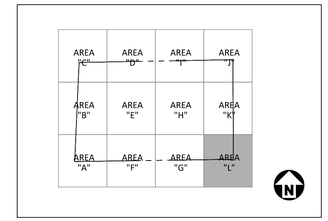
C6.31

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-EC2.dwg, 2/27/2024 4:28:46 PM, Zach Lee

MATCH LINE - SEE SHEET C6.11

MATCH LINE - SEE SHEET C6.07





KEY MAP

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GRAPHIC SCALE

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CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

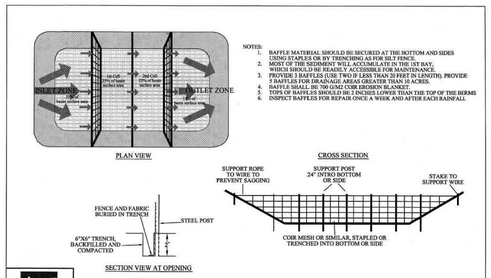
PROJECT NO.	DRH22004
FILENAME	DRH22004-EC2
CHECKED BY	RKB
DRAWN BY	
SCALE	1"=40'
DATE	02. 27. 2024

SHEET

EROSION CONTROL PLAN AREA "L"

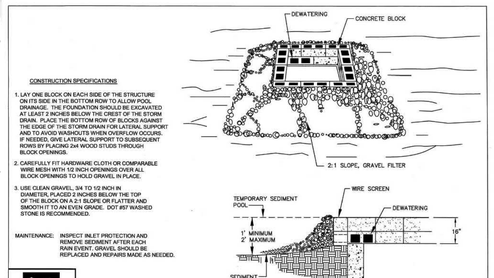
C6.32

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawing\DRH22004-EC2.dwg, 7/27/2024 4:28:48 PM, Zach Lee



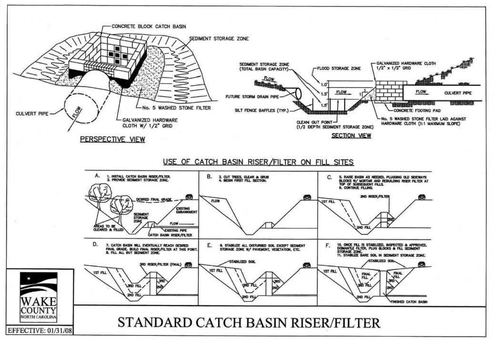
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD BAFFLES DETAIL



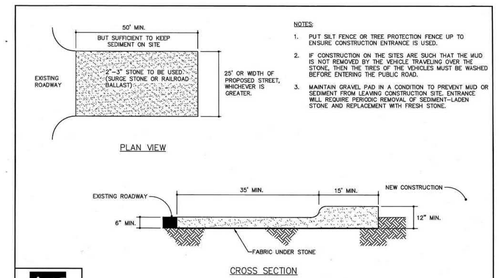
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD BLOCK & GRAVEL DROP INLET PROTECTION



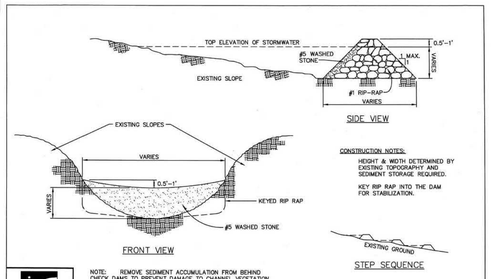
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CATCH BASIN RISER/FILTER



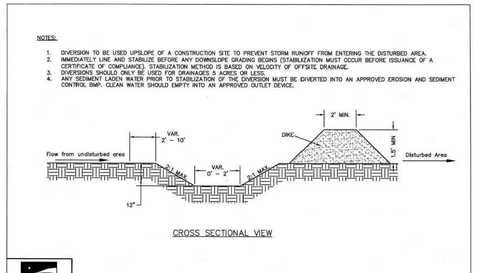
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CONSTRUCTION ENTRANCE



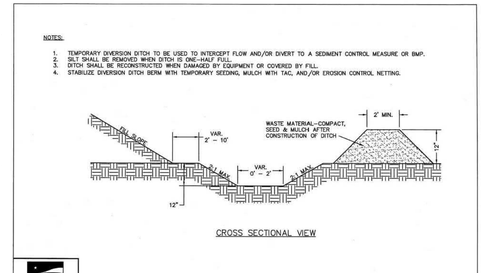
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CHECK DAM



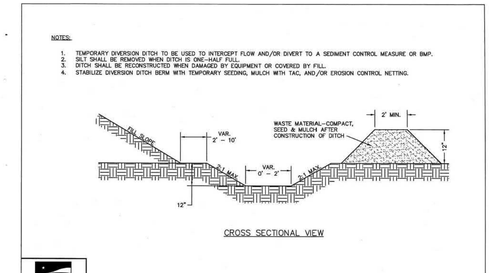
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD CLEAN WATER DIVERSION



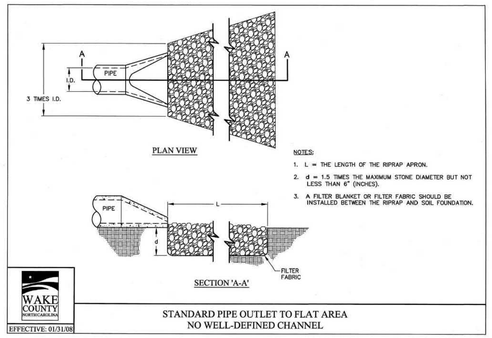
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD TEMPORARY DIVERSION DITCH



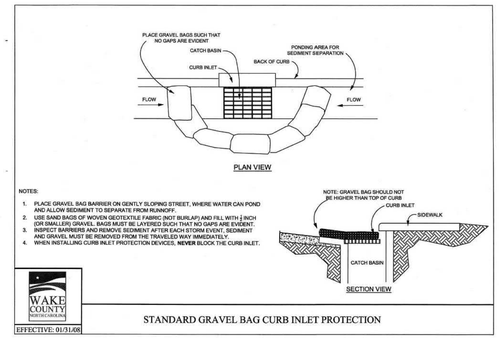
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD TEMPORARY DIVERSION DITCH



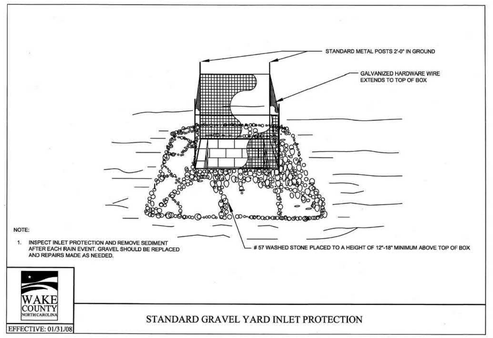
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD PIPE OUTLET TO FLAT AREA
NO WELL-DEFINED CHANNEL



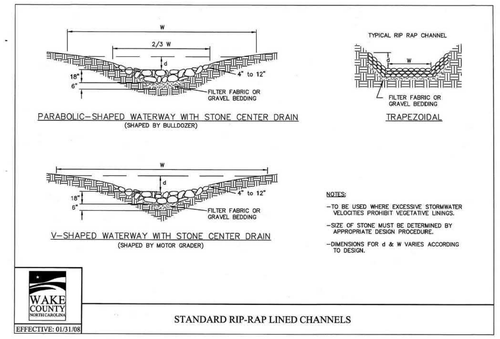
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD GRAVEL BAG CURB INLET PROTECTION



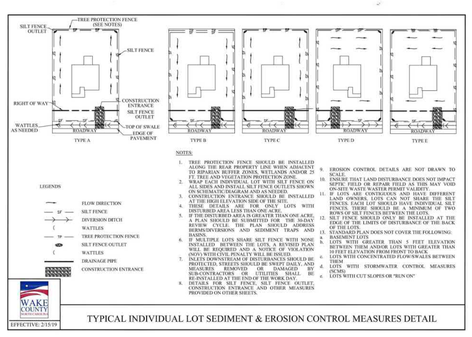
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD GRAVEL YARD INLET PROTECTION



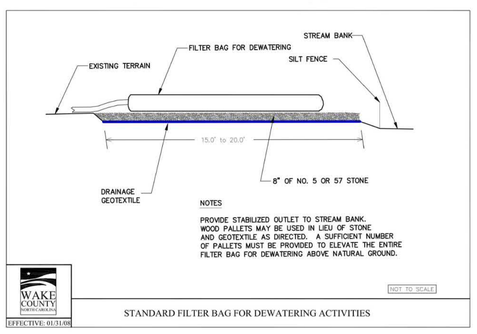
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD RIP-RAP LINED CHANNELS



WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 2/15/19

TYPICAL INDIVIDUAL LOT SEDIMENT & EROSION CONTROL MEASURES DETAIL



WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD FILTER BAG FOR DEWATERING ACTIVITIES

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NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	N.T.S
DATE	02. 27. 2024

SHEET

EROSION CONTROL DETAILS

C6.40

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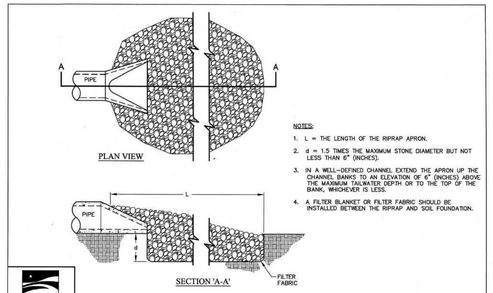
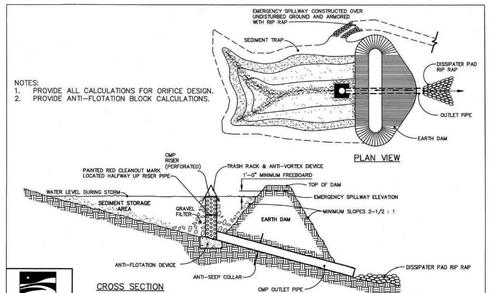


NOTES:
1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" (INCHES) ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

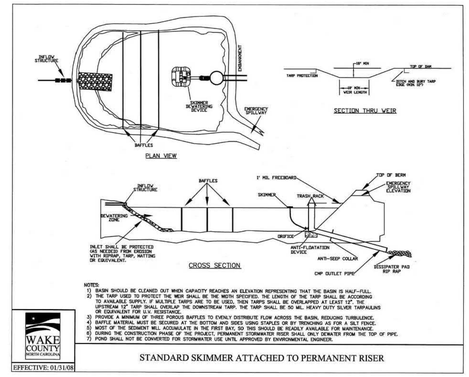
STANDARD PIPE OUTLET TO WELL-DEFINED CHANNEL



NOTES:
1. PROVIDE ALL CALCULATIONS FOR ORIFICE DESIGN.
2. PROVIDE ANTI-FLOTATION BLOCK CALCULATIONS.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

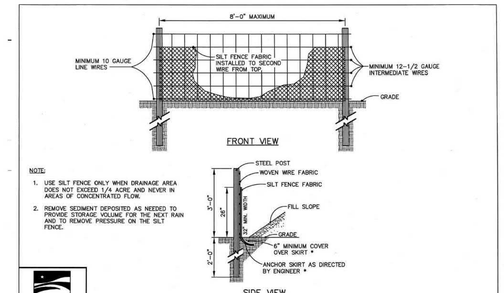
STANDARD RISER-BARREL SEDIMENT BASIN



NOTES:
1) BASIN SHOULD BE CLEANED OUT WHEN CAPACITY REACHES AN ELEVATION REPRESENTING THAT THE BASIN IS HALF-FULL.
2) THE TARP USED TO PROTECT THE WEIR SHALL BE THE WIDTH SPECIFIED, THE LENGTH OF THE TARP SHALL BE ACCORDING TO AVAILABLE SUPPLY. IF MULTIPLE TARPS ARE TO BE USED, THEN TARPS SHALL BE OVERLAPPED AT LEAST 12". THE UPSTREAM 12" TARP SHALL OVERLAP THE DOWNSTREAM TARP. THE TARP SHALL BE 50 MIL. HEAVY DUTY SILVER TARPAULINS OR EQUIVALENT FOR 2-YR RAINFALL.
3) PROVIDE A MINIMUM OF THREE POROUS BAFFLES TO EVENLY DISTRIBUTE FLOW ACROSS THE BASIN, REDUCING TURBULENCE.
4) BAFFLE MATERIAL MUST BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR A SILT FENCE.
5) MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, SO THIS SHOULD BE READILY AVAILABLE FOR MAINTENANCE.
6) DURING THE CONSTRUCTION PHASE OF THE PROJECT, PERMANENT STORMWATER RISER SHALL ONLY DEWATER FROM THE TOP OF PIPE.
7) POND SHALL NOT BE CONVERTED FOR STORMWATER USE UNTIL APPROVED BY ENVIRONMENTAL ENGINEER.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

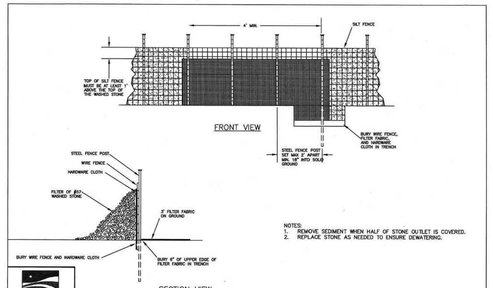
STANDARD SKIMMER ATTACHED TO PERMANENT RISER



NOTE:
1. USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.
2. REMOVE SEDIMENT DEPOSITED AS NEEDED TO PROVIDE STORAGE VOLUME FOR THE NEXT RAIN AND TO REMOVE PRESSURE ON THE SILT FENCE.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

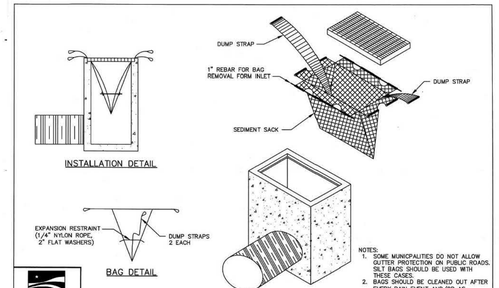
STANDARD TEMPORARY SILT FENCE



NOTES:
1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

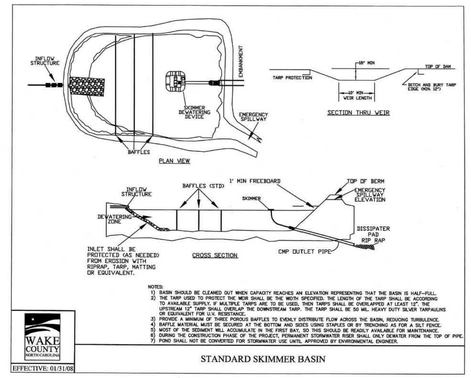
STANDARD SILT FENCE OUTLET



NOTES:
1. SOME MUNICPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
2. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE



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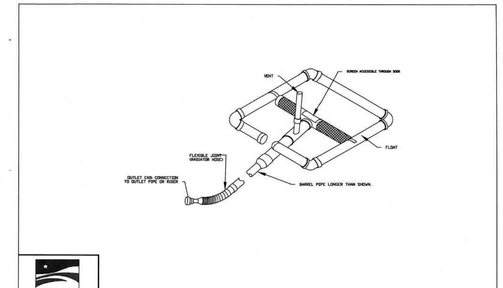
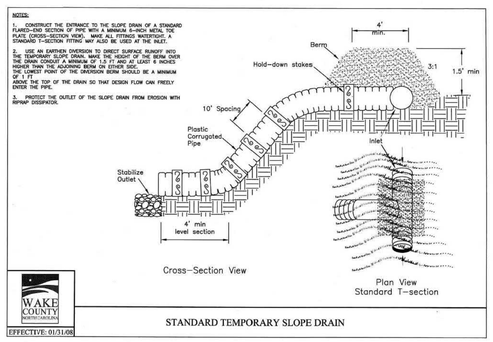
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD SKIMMER BASIN



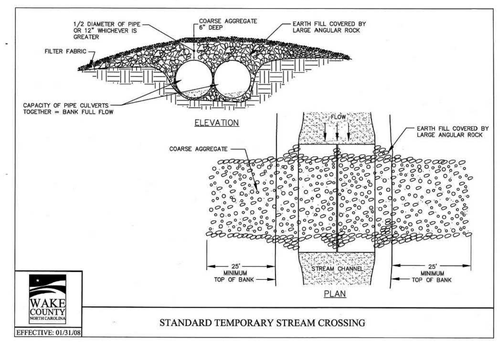
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD SKIMMER DETAIL



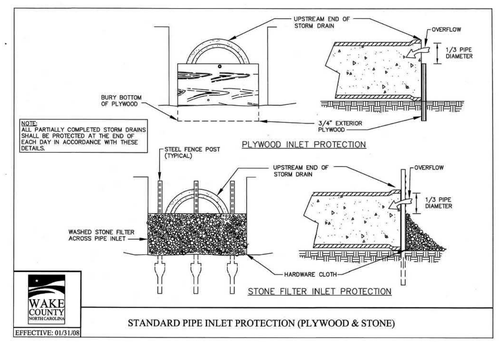
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD TEMPORARY SLOPE DRAIN



WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

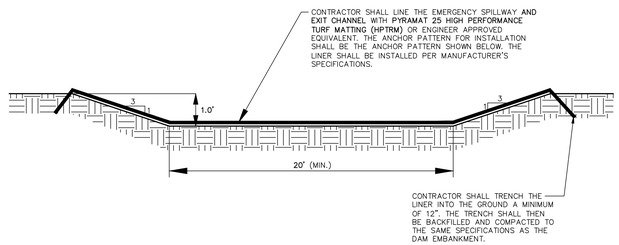
STANDARD TEMPORARY STREAM CROSSING



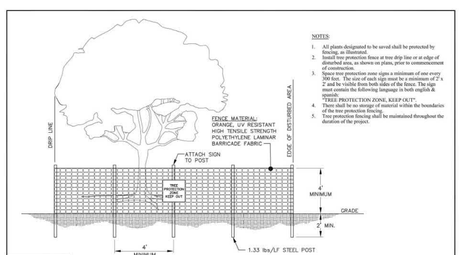
NOTE:
ALL PARTIALLY COMPLETED STORM DRAINS SHALL BE PROTECTED AT THE END OF EACH DAY IN ACCORDANCE WITH THESE DETAILS.

WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 01/31/08

STANDARD PIPE INLET PROTECTION (PLYWOOD & STONE)



EMERGENCY SPILLWAY DETAIL
N.T.S.



NOTES:
1. All plants designated to be saved shall be protected by tree tags or equivalent.
2. Install tree protection fence at tree drip line or at edge of disturbed area, as shown on plans, prior to commencement of construction.
3. Space tree protection zone signs a minimum of one every 300 feet. The size of each sign must be a minimum of 2' x 2' and be visible from both sides of the fence. The sign must contain the following language in both english & spanish:
"TREE PROTECTION ZONE, KEEP OUT"
4. There shall be no storage of material within the boundaries of the tree protection fencing.
5. Tree protection fencing shall be maintained throughout the duration of the project.

WAKE COUNTY NORTH CAROLINA
REVISED: 1/2/2020

STANDARD TREE PROTECTION FENCE DETAIL | A-11

Temporary seeding recommendations for late Winter/Early Spring

Seeding Mixture:

Species	Rate (Lb/acre)
Rye Grain (grown)	120
Annual Ryegrass (Kobe in Piedmont and Costal Plain)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

Seeding dates:
Piedmont and Coastal Plain- January 1 - May 1

Soil Amendments:
Follow recommendations of soil tests or apply 2 tons/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

Mulch:
Apply 4,000 lb/acre straw. Anchor straw by asphalt tack, netting or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulching anchoring tool.

Maintenance:
Re-fertilize if growth is not fully adequate. Reseed, re-fertilize and mulch immediately following erosion and other damage.

Temporary seeding recommendations for Summer

Seeding Mixture

Species	Rate (Lb/acre)
German millet	40

Seeding dates:
Piedmont- May 1 -Aug 15
Coastal Plain- April 15- Aug 31

Soil Amendments:
Follow recommendations of soil tests or apply 2 tons/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

Mulch:
Apply 4,000 lb/acre straw. Anchor straw by asphalt tack, netting or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulching anchoring tool.

Maintenance:
Re-fertilize if growth is not fully adequate. Reseed, re-fertilize and mulch immediately following erosion and other damage.

Temporary seeding recommendations for Fall

Seeding Mixture

Species	Rate (Lb/acre)
Rye Grain	120

Seeding dates:
Piedmont- Aug 15 - Dec 31
Coastal Plain- Aug 31 - Dec 31

Soil Amendments:
Follow recommendations of soil tests or apply 2 tons/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

Mulch:
Apply 4,000 lb/acre straw. Anchor straw by asphalt tack, netting or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulching anchoring tool.

Maintenance:
Repair and maintain damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Costal Plain) in late February or early March.

PERMANENT SEEDING REQUIREMENTS FOR SHOULDERS, SIDE DITCHES, SLOPES (MAX. 3:1)

Date	Type	Planting Rate
Aug 15 - Nov 1	Tall Fescue	300 lbs/acre
Nov 1 - Mar 1	Tall Fescue & Abruzzi Rye	300 lbs/acre
Mar 1 - Apr 15	Tall Fescue	300 lbs/acre
Apr 15 - Jun 30	Hulled Common Bermudagrass	25 lbs/acre
Jul 1 - Aug 15	Tall Fescue AND Browntop Millet or Sorghum-Sudan Hybrids***	125 lbs/acre (Tall Fescue); 35 lbs/acre Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids)

Seedbed Preparation:
1. Till soil compacted areas and spread topsoil three inches deep over adverse soil conditions if available.
2. Rip the entire area to six inches deep.
3. Remove all loose rock, roots and other obstructions, leaving surface reasonably free of clods and stones.
4. Apply agricultural lime, fertilizer and superphosphate uniformly and mix with soil (see mixture below).
5. Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared four to six inches deep.
6. Lay out lines for ditches, diversions and cover seed lightly with seeding equipment or cultipack after seeding.
7. Mulch immediately after seeding and anchor mulch.
8. Inspect all seeded and mulched areas and make needed repairs/reseedings within the planting season specified. If stand should be more than 60% damaged, re-establish following the original lime, fertilizer and seeding rates.

Mixture:
Agricultural Limestone - 2 tons/acre (3 tons/acre in clay soils)
Fertilizer - 1,000 lbs/acre - 10-10-10
Superphosphate - 500 lbs/acre - 20% analysis
Mulch - 2 tons/acre - small grain straw
Anchor - Asphalt emulsion at 300 gallons/acre

WAKE COUNTY NORTH CAROLINA
REVISED: 1/2/2020

SEEDING REQUIREMENTS | A-14

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

MCADAMS
The John R. McAdams Company, Inc.
621 Hillsborough Street
Suite 500
Raleigh, NC 27603
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

CLIENT
D.R. HORTON, INC.
7208 FALLS OF NEUSE ROAD, SUITE 201
RALEIGH, NC 27615
PHONE: 919. 809. 4207

D·R·HORTON America's Builder

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS
NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	N.T.S
DATE	02. 27. 2024

SHEET
EROSION CONTROL DETAILS
C6.41

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

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

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

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

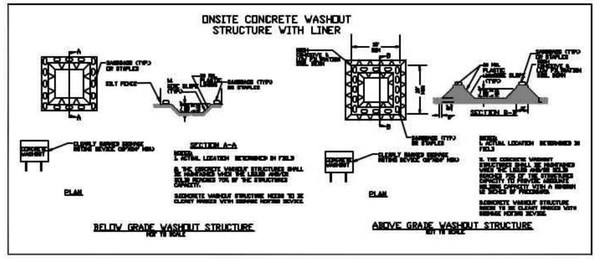
PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

NORTH CAROLINA *Environmental Quality*



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

For questions and assistance, please contact NCDEQ at 919-707-3639.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

A-12

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	N.T.S
DATE	02. 27. 2024

SHEET

EROSION CONTROL DETAILS

C6.42

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PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance ard repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NORTH CAROLINA Environmental Quality

For questions and assistance, please contact NCDEQ at 919-707-3639.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

A-13

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

MCADAMS
The John R. McAdams Company, Inc.
621 Hillsborough Street
Suite 500
Raleigh, NC 27603
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

CLIENT

D.R. HORTON, INC.
7208 FALLS OF NEUSE ROAD, SUITE 201
RALEIGH, NC 27615
PHONE: 919. 809. 4207

D·R·HORTON America's Builder

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER BRIAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-EC-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	N.T.S
DATE	02. 27. 2024

SHEET

EROSION CONTROL DETAILS

C6.43

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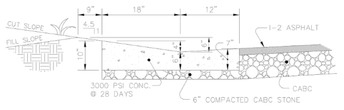
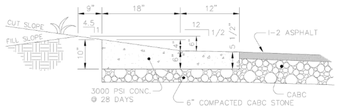
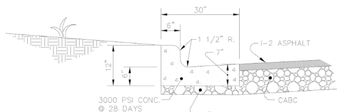


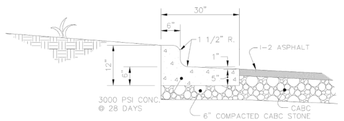
30" VALLEY - STANDARD



30" VALLEY - SPILL



STANDARD



SPILL

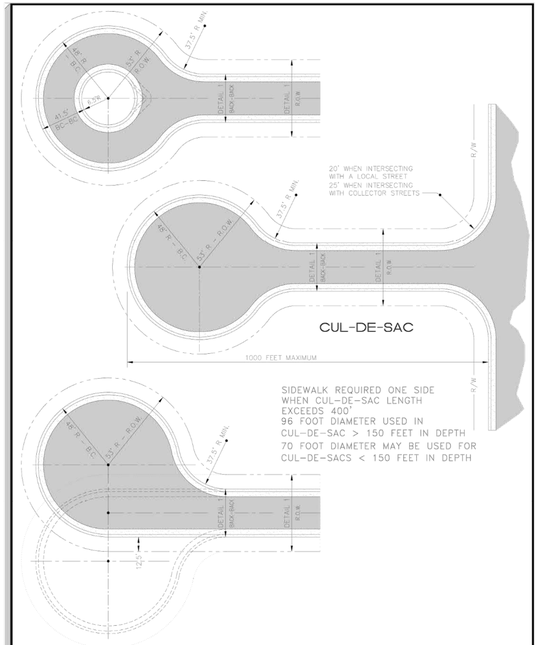
NOTES:
1. SCORE CURB / VALLEY GUTTER AT 15' O.C.
2. PROVIDE 1/2" EXPANSION JOINTS AT 90' O.C.
3. FOR TRANSITION OF CURB TO CURB OPENING INLET, SEE STANDARD DETAIL 33.

TOWN OF ZEBULON

STD. CURB & GUTTER & VALLEY GUTTER DETAIL

SCALE: NOT TO SCALE | DETAIL # 3 | DATE: JULY 2010 | SHEET # 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY

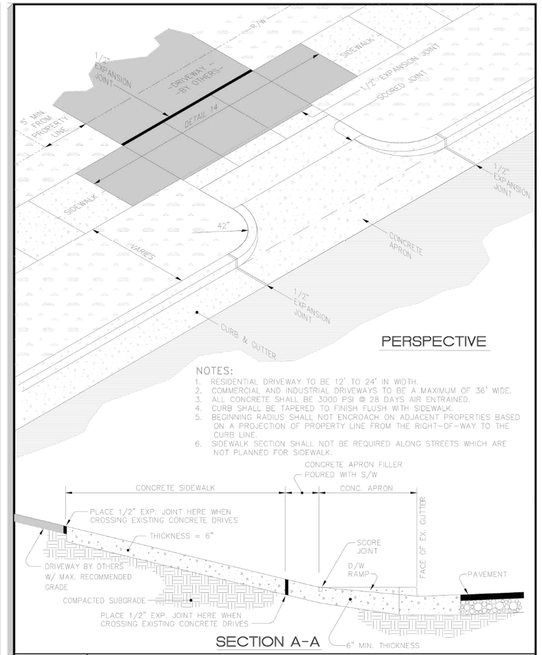


TOWN OF ZEBULON

CUL-DE-SAC DIMENSIONS

SCALE: NOT TO SCALE | DETAIL # 5 | DATE: JULY 2010 | SHEET # 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY



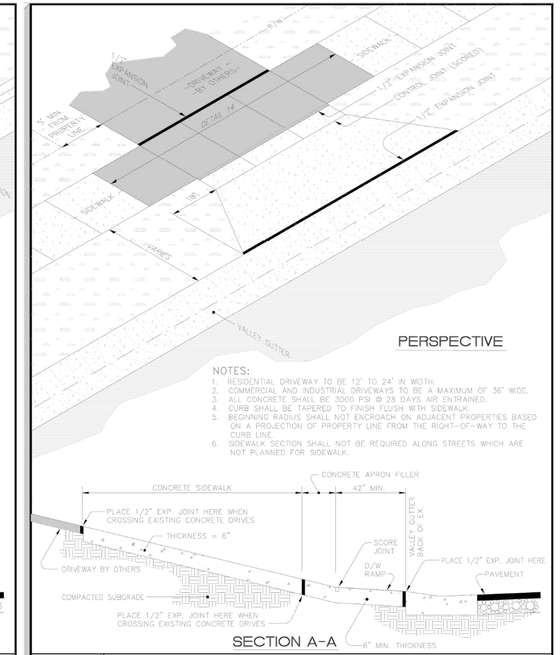
NOTES:
1. RESIDENTIAL DRIVEWAY TO BE 12' TO 24' IN WIDTH.
2. COMMERCIAL AND INDUSTRIAL DRIVEWAYS TO BE A MAXIMUM OF 36' WIDE.
3. ALL CONCRETE SHALL BE 3000 PSI @ 28 DAYS AIR ENTRAINED.
4. CURB SHALL BE TAPERED TO FINISH FLUSH WITH SIDEWALK.
5. BEGINNING RADIUS SHALL NOT ENCROACH ON ADJACENT PROPERTIES BASED ON A PROJECTION OF PROPERTY LINE FROM THE RIGHT-OF-WAY TO THE CURB LINE.
6. SIDEWALK SECTION SHALL NOT BE REQUIRED ALONG STREETS WHICH ARE NOT PLANNED FOR SIDEWALK.

TOWN OF ZEBULON

STREET CURB CUT FOR DRIVEWAYS ON C&G STREETS

SCALE: NOT TO SCALE | DETAIL # 8 | DATE: JULY 2010 | SHEET # 2 OF 2

USE WITH STANDARD SPECIFICATIONS ONLY



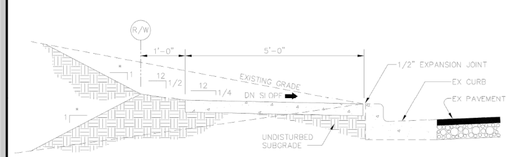
NOTES:
1. RESIDENTIAL DRIVEWAY TO BE 12' TO 24' IN WIDTH.
2. COMMERCIAL AND INDUSTRIAL DRIVEWAYS TO BE A MAXIMUM OF 36' WIDE.
3. ALL CONCRETE SHALL BE 3000 PSI @ 28 DAYS AIR ENTRAINED.
4. CURB SHALL BE TAPERED TO FINISH FLUSH WITH SIDEWALK.
5. BEGINNING RADIUS SHALL NOT ENCROACH ON ADJACENT PROPERTIES BASED ON A PROJECTION OF PROPERTY LINE FROM THE RIGHT-OF-WAY TO THE CURB LINE.
6. SIDEWALK SECTION SHALL NOT BE REQUIRED ALONG STREETS WHICH ARE NOT PLANNED FOR SIDEWALK.

TOWN OF ZEBULON

FLARED DRIVEWAY ENTRANCE TO VALLEY GUTTER

SCALE: NOT TO SCALE | DETAIL # 9 | DATE: JULY 2010 | SHEET # 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY



SECTIONAL VIEW

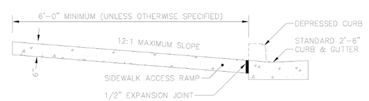
1. PROVIDE 3/4" DEEP TOOLED SCORE AT 5'-0" O.C.
2. EXPANSION JOINTS TO BE PLACED 30'-0" O.C. LONGITUDINALLY, ADJACENT TO CURBS, AND WHEN BUTTING EXISTING STRUCTURES, CONCRETE, OR BUILDINGS.
3. CONCRETE TO BE 3000 P.S.I. AT 28 DAYS, AIR-ENTRAINED.
4. SUBGRADE SHOULD NOT CONTAIN ORGANIC MATTER OR PLASTIC CLAYS. WHEN FOUND, REFER TO SPECS OR CONTACT ENGINEER FOR DIRECTIONS.
5. AREAS OF FILL ARE TO BE COMPACTED TO 95% STANDARD PROCTOR USING NCDOT CLASS III BORROW OR BETTER. REMOVE TOPSOIL BEFORE PLACING BORROW.
6. SIDEWALK TRANSVERSE SLOPE MAY INCREASE TO 1/2 IN 12 WITH TOWN'S ENGINEER APPROVAL.

TOWN OF ZEBULON

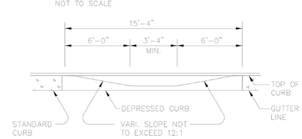
TYP. SIDEWALK in CUT or FILL SECTIONS

SCALE: NOT TO SCALE | DETAIL # 12 | DATE: JULY 2010 | SHEET # 1 OF 1

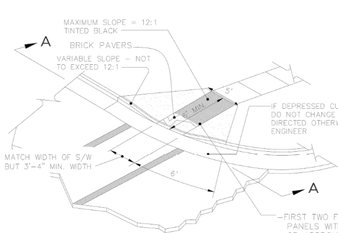
USE WITH STANDARD SPECIFICATIONS ONLY



LONGITUDINAL SECTION
NOT TO SCALE



SECTION A-A
ELEVATION OF SINGLE ACCESS RAMP
NOT TO SCALE



SINGLE ACCESS
ISOMETRIC VIEW

- FIRST TWO FEET SHALL BE HANDICAP PANELS WITH DIMPLES BY ALERT CAST OR APPROVED EQUAL
- THE REMAINING FOUR FEET SHALL BE DYED CONCRETE WITH 70% CONTRAST
- INSTALLATION PER MANUFACTURER'S INSTRUCTIONS
*STAMPED CONCRETE NOT ALLOWED

TOWN OF ZEBULON

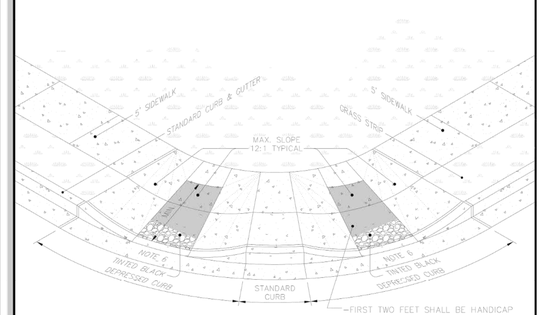
SINGLE HANDICAP RAMP DETAIL

SCALE: NOT TO SCALE | DETAIL # 20 | DATE: JULY 2010 | SHEET # 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY

NOTES:

1. WHEELCHAIR RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER. WHEELCHAIR RAMPS SHALL BE LOCATED AS INDICATED IN THESE DETAILS; HOWEVER, THE LOCATION MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. AT THESE LOCATIONS, NOT LESS THAN 2 FEET OF FULL HEIGHT CURB SHALL BE PLACED BETWEEN ADJACENT RAMPS.
2. NO SLOPE ON THE WHEELCHAIR RAMP SHALL EXCEED 1"/12" (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.
3. IN NO CASE SHALL THE WIDTH OF THE WHEELCHAIR RAMP BE LESS THAN 40" (3'-4") HOWEVER, WIDTH MAY EXCEED 40".
4. USE AIR ENTRAINED 3000 PSI CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
5. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AND AS SHOWN ON STANDARD DRAWINGS.
6. CURB DEPRESSION MUST GO IN WHETHER OR NOT SIDEWALK IS PLACED.



STANDARD ADA WHEELCHAIR
SIDEWALK ACCESS AT CURB RETURNS

PERSPECTIVE

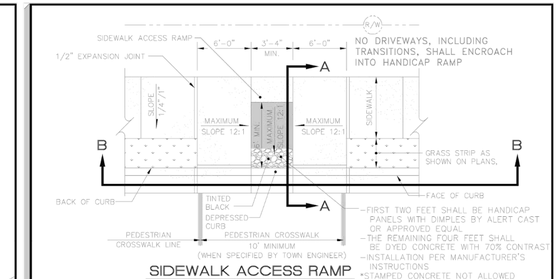
- FIRST TWO FEET SHALL BE HANDICAP TILES WITH DIMPLES BY ALERT CAST OR APPROVED EQUAL
- THE REMAINING FOUR FEET SHALL BE DYED CONCRETE WITH 70% CONTRAST
- INSTALLATION PER MANUFACTURER'S INSTRUCTIONS
*STAMPED CONCRETE NOT ALLOWED

TOWN OF ZEBULON

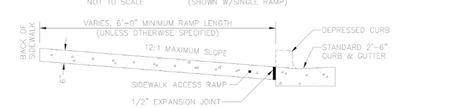
DOUBLE HANDICAP RAMP DETAIL

SCALE: NOT TO SCALE | DETAIL # 21 | DATE: JULY 2010 | SHEET # 1 OF 2

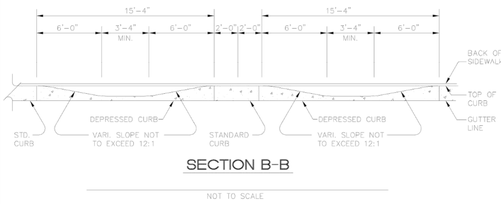
USE WITH STANDARD SPECIFICATIONS ONLY



SIDEWALK ACCESS RAMP
NOT TO SCALE



SECTION A-A
PUBLIC STREET TIE-IN
NOT TO SCALE



SECTION B-B
NOT TO SCALE

TOWN OF ZEBULON

DOUBLE HANDICAP RAMP DETAIL

SCALE: NOT TO SCALE | DETAIL # 21 | DATE: JULY 2010 | SHEET # 2 OF 2

USE WITH STANDARD SPECIFICATIONS ONLY

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

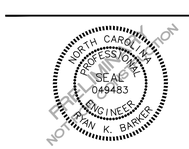
McADAMS
The John R. McAdams Company, Inc.
621 Hillsborough Street
Suite 500
Raleigh, NC 27603
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

CLIENT

D.R. HORTON, INC.
7208 FALLS OF NEUSE ROAD, SUITE 201
RALEIGH, NC 27615
PHONE: 919. 809. 4207

D·R·HORTON America's Builder

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA



REVISIONS

NO. DATE

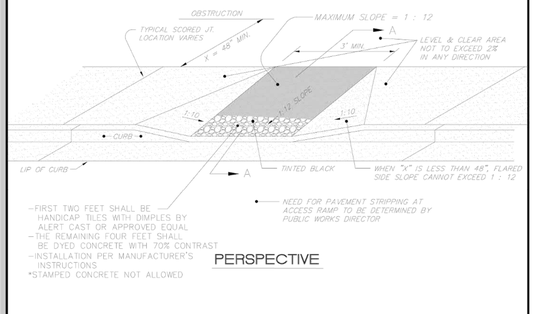
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	NTS
DATE	02. 27. 2024

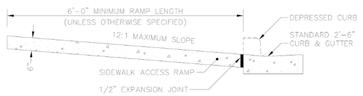
SHEET

SITE DETAILS
C8.00

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-D1.dwg, 2/27/2024 4:29:07 PM, Zach Lee



PERSPECTIVE



SECTION A-A

IN-WALK HANDICAP RAMP

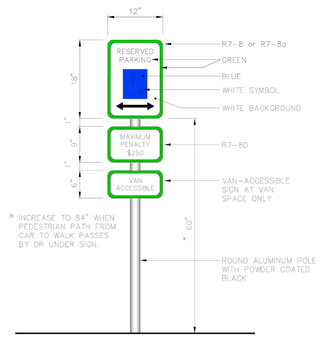
* THIS DETAIL APPLICABLE FOR PARALLEL PARKING IN MUNICIPAL APPLICATIONS ONLY

TOWN OF ZEBULON

HANDICAP PARKING STALL DETAIL *

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #:
NOT TO SCALE	22
DATE: JULY 2010	SHEET #: 1 OF 1



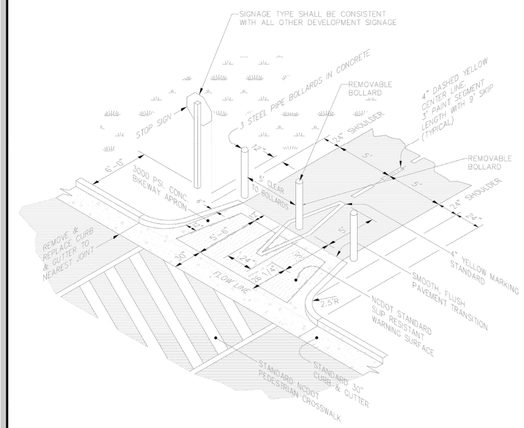
ELEVATIONAL VIEW

TOWN OF ZEBULON

R7-8 HANDICAP SIGN DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #:
NOT TO SCALE	23
DATE: JULY 2010	SHEET #: 1 OF 1



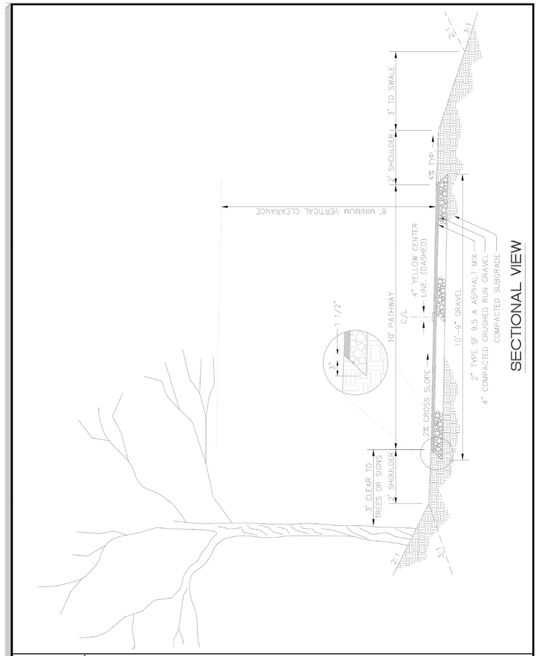
PERSPECTIVE

TOWN OF ZEBULON

STD. BIKE WAY PATH DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #:
NOT TO SCALE	25
DATE: JULY 2010	SHEET #: 1 OF 2



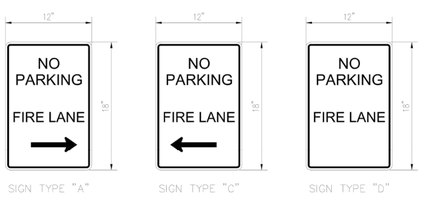
SECTIONAL VIEW

TOWN OF ZEBULON

STD. BIKE WAY PATH DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #:
NOT TO SCALE	25
DATE: JULY 2010	SHEET #: 2 OF 2



NOTES:

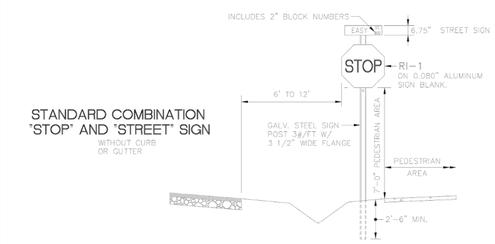
1. WHERE REQUIRED BY THE FIRE CODE OFFICIAL, FIRE APPARATUS ACCESS ROADS SHALL BE MARKED WITH PERMANENT NO PARKING.
2. SIGNS SHALL HAVE MIN. DIMENSION OF 12-INCHES WIDE BY 18-INCHES HIGH AND HAVE RED LETTERS ON WHITE HIGH INTENSITY GRADE REFLECTIVE SHEETING.
3. SIGNS SHALL BE POSTED ON ONE OR BOTH SIDES OF THE FIRE APPARATUS ROAD AS REQUIRED BY SECTION D103.6.1 OR D103.6.2 OF THE NORTH CAROLINA FIRE CODE.
4. SIGNAGE SHALL MEET STANDARD OR PREMIUM SIGN INSTALLATION DETAIL REQUIREMENTS.

TOWN OF ZEBULON

FIRE DEPARTMENT SIGNAGE FIRE LANE

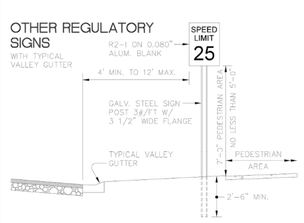
USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #:
NOT TO SCALE	29
DATE: JULY 2010	SHEET #: 1 OF 1



STANDARD COMBINATION "STOP" AND "STREET" SIGN
WITHOUT CURB OR GUTTER

ELEVATIONAL VIEW



OTHER REGULATORY SIGNS
WITH TYPICAL VALLEY GUTTER

ELEVATIONAL VIEW

NOTES:

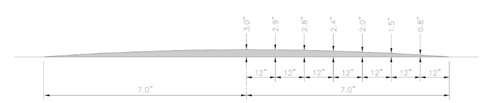
1. STREET NAME SIGNS SHALL BE A MINIMUM OF EXTRUDED ALUMINUM BLADES USING A MINIMUM OF 4" C SERIES LETTERING IN HIGH INTENSITY SILVER & HIGH INTENSITY GREEN BACKGROUND (2" LETTERS FOR BLOCK NUMBERS).
2. ALL REFLECTIVE SIGNS SHALL BE MADE OF HIGH INTENSITY GRADE REFLECTIVE SHEETING OR APPROVED EQUIVALENT.
3. ALL SIGNS PLACED IN RIGHT-OF-WAY WILL BE APPROVED BY TOWN'S PUBLIC WORKS DIRECTOR.
4. ERECT STREET SIGNS PLUMB.
5. DEVELOPER SHALL BE RESPONSIBLE FOR FURNISHING & ERECTING ALL STREET NAMP & REGULATORY SIGNS.
6. ALL HARDWARE MUST BE GALVANIZED.

TOWN OF ZEBULON

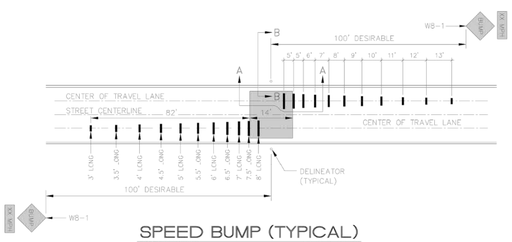
STANDARD SIGN INSTALLATION DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #:
NOT TO SCALE	30
DATE: JULY 2010	SHEET #: 1 OF 1



SECTION A-A
PARABOLIC CROWN
NOT TO SCALE



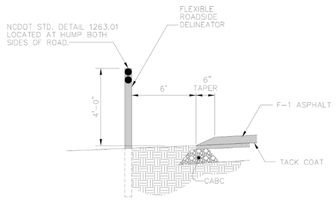
SPEED BUMP (TYPICAL)
NOT TO SCALE REV. 9-3-99

TOWN OF ZEBULON

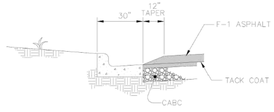
14' LOCAL SPEED BUMP

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #:
NOT TO SCALE	32
DATE: JULY 2010	SHEET #: 1 OF 2



SECTION B-B
SHOULDER DETAIL FOR STREETS WITHOUT CURBS
NOT TO SCALE



SECTION B-B
CURB DETAIL
NOT TO SCALE

TOWN OF ZEBULON

14' LOCAL SPEED BUMP

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #:
NOT TO SCALE	32
DATE: JULY 2010	SHEET #: 2 OF 2

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
621 Hillsborough Street
Suite 500
Raleigh, NC 27603
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

CLIENT

D.R. HORTON, INC.
7208 FALLS OF NEUSE ROAD, SUITE 201
RALEIGH, NC 27615
PHONE: 919. 809. 4207

D·R·HORTON America's Builder

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

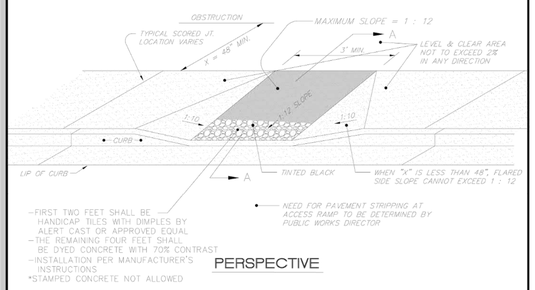
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	NTS
DATE	02. 27. 2024

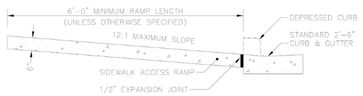
SHEET

SITE DETAILS
C8.01

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-D1.dwg, 2/27/2024 4:29:13 PM, Zach Lee



PERSPECTIVE

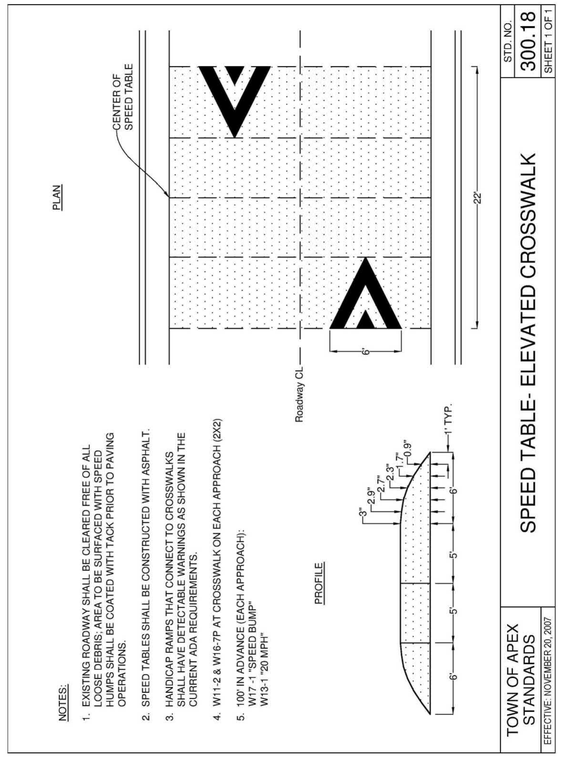


SECTION A-A

IN-WALK HANDICAP RAMP

* THIS DETAIL APPLICABLE FOR PARALLEL PARKING IN MUNICIPAL APPLICATIONS ONLY

TOWN OF ZEBULON		
HANDICAP PARKING STALL DETAIL *	SCALE: NOT TO SCALE	DETAIL # 22
	DATE: JULY 2010	SHEET # 1 OF 1
USE WITH STANDARD SPECIFICATIONS ONLY		



NOTES:

1. EXISTING ROADWAY SHALL BE CLEARED FREE OF ALL LOOSE DEBRIS. AREA TO BE SURFACED WITH SPEED HUMPS SHALL BE COATED WITH TACK PRIOR TO PAVING OPERATIONS.
2. SPEED TABLES SHALL BE CONSTRUCTED WITH ASPHALT.
3. HANDICAP RAMPS THAT CONNECT TO CROSSWALKS SHALL HAVE DETECTABLE WARNINGS AS SHOWN IN THE CURRENT ADA REQUIREMENTS.
4. W11-2 & W16-7P AT CROSSWALK ON EACH APPROACH (2X2)
5. 100' IN ADVANCE (EACH APPROACH):
   W17-1 "SPEED BUMP"
   W13-1 "20 MPH"

TOWN OF APEX STANDARDS	SPEED TABLE- ELEVATED CROSSWALK	STD. NO. 300.18
EFFECTIVE: NOVEMBER 20, 2007		SHEET 1 OF 1

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

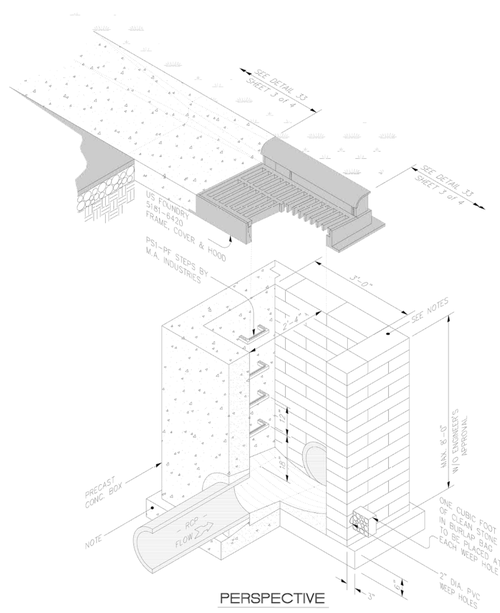
PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	NTS
DATE	02. 27. 2024

SHEET

SITE DETAILS
C8.02

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-D1.dwg, 2/27/2024 4:29:18 PM, Zach Lee



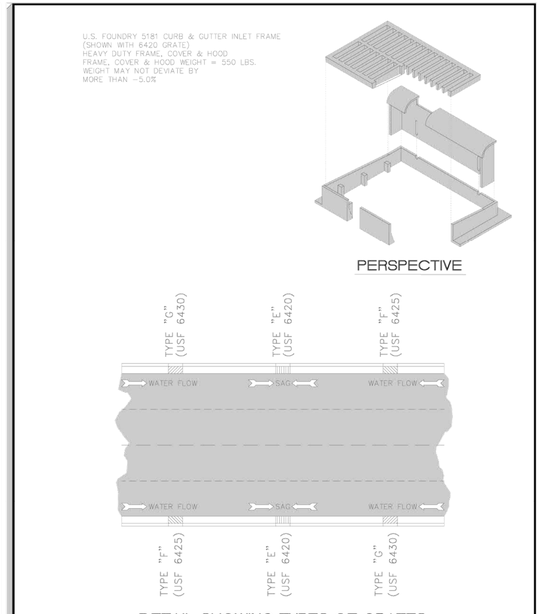
PERSPECTIVE

TOWN OF ZEBULON

STD. C&G INLET W/HOOD DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE: NOT TO SCALE | DETAIL # 33 | DATE: JULY 2010 | SHEET # 1 OF 4



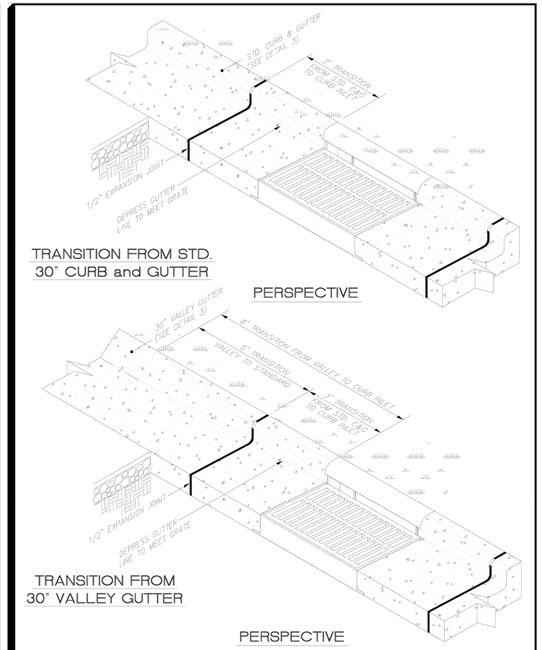
DETAIL SHOWING TYPES OF GRATES
TO BE USED ACCORDING TO WATER FLOW

TOWN OF ZEBULON

STD. C&G INLET W/HOOD DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE: NOT TO SCALE | DETAIL # 33 | DATE: JULY 2010 | SHEET # 2 OF 4

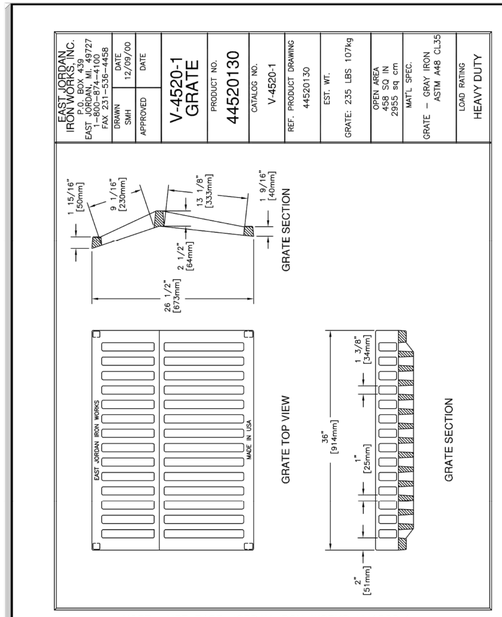


TOWN OF ZEBULON

STD. TRANSITION FROM INLET TO STD. C&G / VALLEY GUTTER

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE: NOT TO SCALE | DETAIL # 33 | DATE: JULY 2010 | SHEET # 3 OF 4



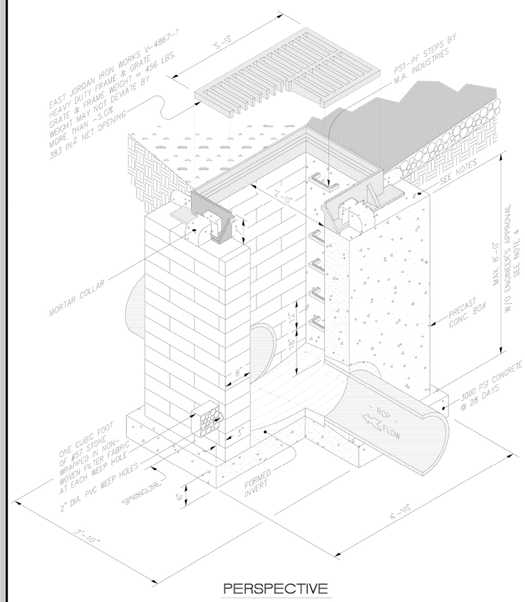
NOTE: USE EAST JORDAN IRON WORKS V-4520-1
GRATE OR EQUIVALENT BY US FOUNDRY.

TOWN OF ZEBULON

DETAIL FOR STORM DRAIN WITH DRIVEWAY CONFLICT

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE: NOT TO SCALE | DETAIL # 33 | DATE: JULY 2010 | SHEET # 4 OF 4



PERSPECTIVE

TOWN OF ZEBULON

2×3 DROP INLET

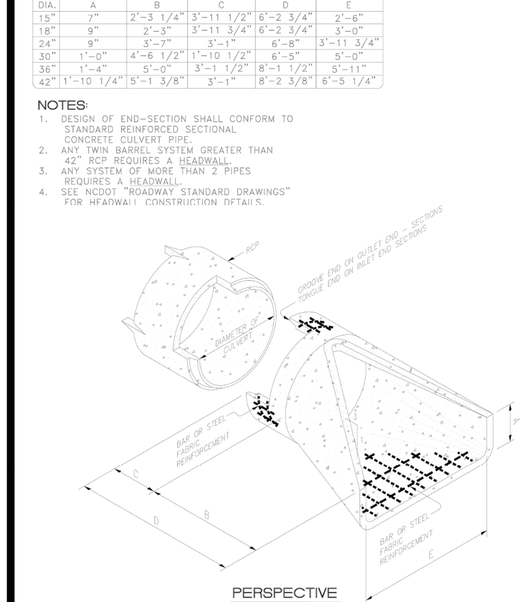
USE WITH STANDARD SPECIFICATIONS ONLY

SCALE: NOT TO SCALE | DETAIL # 34 | DATE: JULY 2010 | SHEET # 1 OF 1

END SECTION DIMENSIONS

DIA.	A	B	C	D	E
15"	7"	2'-3 1/4"	3'-11 1/2"	6'-2 3/4"	2'-6"
18"	9"	2'-3"	3'-11 3/4"	6'-2 3/4"	3'-0"
24"	9"	3'-7"	3'-1"	6'-8"	3'-11 3/4"
30"	1'-0"	4'-6 1/2"	1'-10 1/2"	6'-5"	5'-0"
36"	1'-4"	5'-0"	3'-1 1/2"	8'-1 1/2"	5'-11"
42"	1'-10 1/4"	5'-1 3/8"	3'-1"	8'-2 3/8"	6'-5 1/4"

NOTES:
1. DESIGN OF END-SECTION SHALL CONFORM TO STANDARD REINFORCED SECTIONAL CONCRETE CULVERT PIPE.
2. ANY TWIN BARREL SYSTEM GREATER THAN 42" RCP REQUIRES A HEADWALL.
3. ANY SYSTEM OF MORE THAN 2 PIPES REQUIRES A HEADWALL.
4. SEE NCDOT "ROADWAY STANDARD DRAWINGS" FOR HEADWALL CONSTRUCTION DETAILS.



PERSPECTIVE

TOWN OF ZEBULON

STD. FLARED END SECTIONS DESIGN AID DETAIL

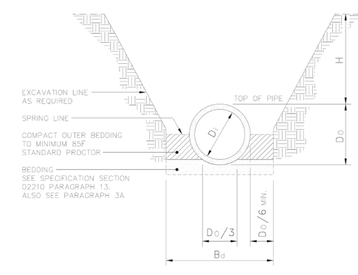
USE WITH STANDARD SPECIFICATIONS ONLY

SCALE: NOT TO SCALE | DETAIL # 35 | DATE: JULY 2010 | SHEET # 1 OF 1

D_i = INSIDE DIAMETER OF PIPE
D_o = OUTSIDE DIAMETER OF PIPE
B_d = TRENCH WIDTH
H = BACKFILL COVER ABOVE TOP OF PIPE

PIPE D_i	MAX. B_d	MAX. BURY H CLASS III (0.01 CRACK)	MAX. BURY H CLASS IV (0.01 CRACK)
15"	4'	9.5'	14.5'
18"	4'	9.5'	15.0'
24"	4'	12.0'	23.5'
30"	5.5'	10.0'	17.0'
36"	6'	10.5'	18.0'
42"	6.5'	13.0'	19.0'
48"	7'	13.5'	20.0'
54"	8'	13.0'	18.5'
60"	9'	11.0'	18.0'
72"	10'	13.0'	19.0'

THIS TABLE ASSUMES TYPE 4 INSTALLATION & NO STONE BEDDING



SECTIONAL VIEW

NOTES:
1. FOR OTHER BURY DEPTHS THAN SHOWN (H), NORTH CAROLINA PE TO PROVIDE CALCS ON PIPE BURY THAT EXCEED THOSE GIVEN IN THIS CHART FOR THE CONDITIONS IN WHICH IT IS PROPOSED TO BE USED.
2. THIS TABLE OF BURY DEPTHS (H) APPLIES EQUALLY TO A CLASS C STONE BEDDING, TYPE 4 LAYING CONDITIONS.
3. MINIMUM COVER NOT SHOWN BUT NO LESS THAN 12" W/O ENGINEERS APPROVAL UP TO 48" PIPE.

TOWN OF ZEBULON

STD. TRENCH INSTALLATION FOR CONCRETE PIPE
(FOR CONTRACTOR'S USE)

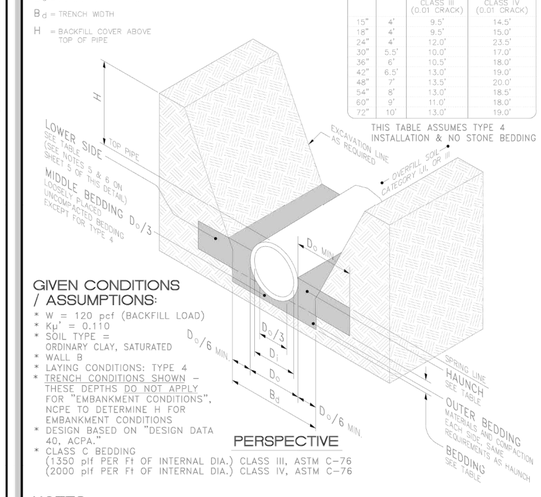
USE WITH STANDARD SPECIFICATIONS ONLY

SCALE: NOT TO SCALE | DETAIL # 36 | DATE: JULY 2010 | SHEET # 1 OF 5

D_i = INSIDE DIAMETER OF PIPE
D_o = OUTSIDE DIAMETER OF PIPE
B_d = TRENCH WIDTH
H = BACKFILL COVER ABOVE TOP OF PIPE

PIPE D_i	MAX. B_d	MAX. BURY H CLASS III (0.01 CRACK)	MAX. BURY H CLASS IV (0.01 CRACK)
15"	4'	9.5'	14.5'
18"	4'	9.5'	15.0'
24"	4'	12.0'	23.5'
30"	5.5'	10.0'	17.0'
36"	6'	10.5'	18.0'
42"	6.5'	13.0'	19.0'
48"	7'	13.5'	20.0'
54"	8'	13.0'	18.5'
60"	9'	11.0'	18.0'
72"	10'	13.0'	19.0'

THIS TABLE ASSUMES TYPE 4 INSTALLATION & NO STONE BEDDING



PERSPECTIVE

GIVEN CONDITIONS / ASSUMPTIONS:
* W = 120 pcf (BACKFILL LOAD)
* Kμ' = 0.110
* SOIL TYPE = ORDINARY CLAY, SATURATED
* WALL B
* LAYING CONDITIONS: TYPE 4
* TRENCH CONDITIONS SHOWN – THESE DEPTHS DO NOT APPLY FOR "EMBANKMENT CONDITIONS". NCPE TO DETERMINE H FOR EMBANKMENT CONDITIONS
* DESIGN BASED ON "DESIGN DATA 40, ACPA."
* CLASS C BEDDING
  (1350 plf PER Ft OF INTERNAL DIA.) CLASS III, ASTM C-76
  (2000 plf PER Ft OF INTERNAL DIA.) CLASS IV, ASTM C-76

NOTES:
1. GREATER DEPTHS ARE ACHIEVABLE BY EITHER CONTROLLING BACKFILL TYPE, NARROWING TRENCH WIDTH BUT SUPPLY SUFFICIENT ROOM FOR COMPACTION, IMPROVING BEDDING OR LOADING TO ULTIMATE LOAD (D_u). FOR OTHER BURY DEPTHS THAN SHOWN (H), NORTH CAROLINA PE TO PROVIDE CALCS ON PIPE BURY THAT EXCEED THOSE GIVEN IN THIS CHART FOR THE CONDITIONS IN WHICH IT IS PROPOSED TO BE USED.
2. THIS TABLE OF BURY DEPTHS (H) APPLIES EQUALLY TO A CLASS C STONE BEDDING, TYPE 4. LAYING CONDITIONS
3. MINIMUM COVER NOT SHOWN
4. MAXIMUM BURY TABLE FOR "TRENCH CONDITIONS" PER THE DETAIL SHOWN THIS SHEET

TOWN OF ZEBULON

STD. TRENCH INSTALLATION FOR CONCRETE PIPE
(FOR ENGINEER'S USE)

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE: NOT TO SCALE | DETAIL # 36 | DATE: JULY 2010 | SHEET # 2 OF 5

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER BRIAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	NTS
DATE	02. 27. 2024

SHEET

STORM DRAINAGE DETAILS

C8.03

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Table 1 Equivalent USCS and AASHTO Soil CLassification for SIDD Soil Designations

	Representative Soil Types		Percent Compaction	
SIDD Soil	USCS.	AASHTO	Standard Proctor	Modified Proctor
Gravelly Sand (Category I)	SW, SP, GW, GP	A1,A3	100 95 90 85 80 61	95 90 85 80 75 59
Sandy Silt (Category II)	GM, SM, ML Also GC, SC with less than 20% passing #200 sieve	A2,A4	100 95 90 85 80 49	95 90 85 80 75 46
Silty Clay (Category III)	CL, MH GC, SC	A5,A6	100 95 90 85 80 45	90 85 80 75 70 40
	CH		100 95 90 45	90 85 80 40

TOWN OF ZEBULON

STD. TRENCH INSTALLATION (TRENCH CONDITION SHOWN)

SCALE: NOT TO SCALE | DETAIL # 36 | DATE: JULY 2010 | SHEET # 3 OF 5

USE WITH STANDARD SPECIFICATIONS ONLY

Table 2 Standard EMBANKMENT Installation Soils and Minimum Compaction Requirements

Installation Type [4]	Bedding Thickness	Haunch and Outer Bedding	Lower Side
Type 1	D_0/24 minimum, not less than 75 mm (3"). If rock foundation,use D_0/12 minimum, not less than 150 mm (6").	98% Category I	90% Category I, 95% Category II, or 100% Category III
Type 2	D_0/24 minimum, not les than 75 mm (3"). If rock foundation, use D_0/12 minimum,not less than 150 mm (6").	90% Category I or 95% Categiry II	85% Category I, 90% Category II, or 95% Category III
Type 3	D_0/24 minimum, not less than 75 mm (3"). If rock foundation, use D_0/12 minimum, not less than 150 mm (6").	85% Category I, 90% Category II, or 95% Category III	85% Category I, 90% Category II, or 95% Category III
Type 4	D_0/24 minimum, not less than 75 mm (3"). If rock foundation, use D_0/12 minimum, not less than 150 mm (6").	No compaction required, except if Category III, use 85% Category III	No compaction required, except if Category III, use 85% Category III

Notes:

1. Compaction and soils symbols – i.e. "98% Category I" refers to Category 1 soil material with a minimum standard Proctor compaction of 98%. See Table 1 for equivalent modified Proctor values.
2. Soil in the outer bedding, haunch, and lower side zones, except within D0/3 from the pipe springline, shall be compacted to at least the same compaction as the majority of the soil in the overfill zone.
3. Subtrenches
3.1 A subtrench is defined as a trench with its top below finished grade by more than 0.1 H or, for roadways, its top is at an elevation lower than 0.3 m (1') below the bottom of the pavement base material.
3.2 The minimum width of a subtrench shall be 1.33 D_0 or wider if required for adequate space to attain the specified compaction in the haunch and bedding zones.
3.3 For subtrenches with wall of natural soil, any portion of the lower side zone in the subtrench wall shall be at least as firm as an equivalent soil placed to the compaction requirements specified for the lower side zone and as firm as the majority of soil in the overfill zone, or shall be removed and replaced with soil compacted to the specified level.
4. Type 1 installation = relatively high quality material & high compaction effort. Type 4 installation = little or no control over material and compaction.

TOWN OF ZEBULON

STD. TRENCH INSTALLATION (TRENCH CONDITION SHOWN)

SCALE: NOT TO SCALE | DETAIL # 36 | DATE: JULY 2010 | SHEET # 4 OF 5

USE WITH STANDARD SPECIFICATIONS ONLY

Table 3 Standard TRENCH Installations Soils and Minimum Compaction Requirements

Installation[7] Type	Bedding Thickness	Haunch Outer Bedding	Lower Side
Type 1	D_0/24 minimum, not less than 75 mm (3"). If rock foundation, use D_0/12 minimum, not less than 150 mm (6").	98% Category I	90% Category I, 95% Category II, or 100% Category III
Type 2	D_0/24 minimum, not less than 75 mm (3"). If rock foundation, use D_0/12 minimum, not less than 150 mm (6").	90% Category I or 95% Category II	85% Category I, 90% Category II, or 95% Category III
Type 3	D_0/24 minimum, not less than 75 mm (3"). If rock foundation, use D_0/12 minimum, not less than 150 mm (6").	85% Category I, 90% Category II, or 95% Category III	85% Category I, 90% Category II, or 95% Category III
Type 4	D_0/24 minimum, not less than 75 mm (3"). If rock foundation, use D_0/12 minimum, not less than 150 mm (6").	No compaction required, except if Category III, use 85% Category III	No compaction required, except if Category III, use 85% Category III

Notes:

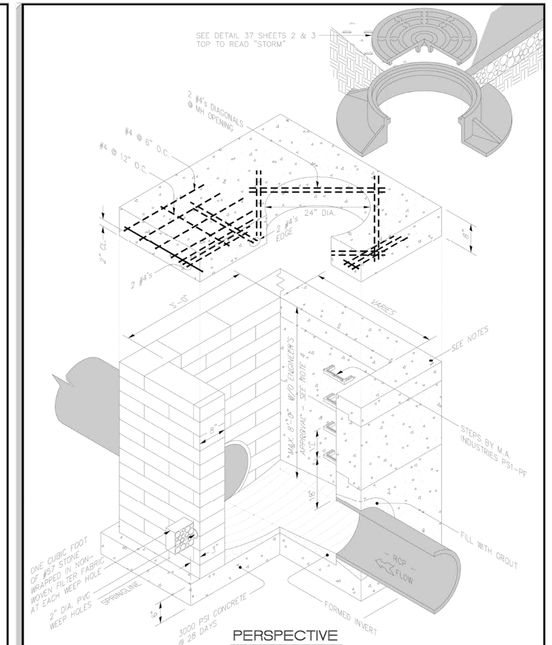
1. Compaction and soils symbols – i.e. "98% Category I" refers to Category I soil materials with minimum standard Proctor compaction of 98%. See Table 1 for equivalent modified Proctor values.
2. The trench top elevation shall be no lower than 0.1 H below finished grade or, for roadways, its top shall be no lower than an elevation of 0.3 m (1') below the bottom of the pavement base material.
3. Soil in bedding and haunch zones shall be compacted to at least the same compaction as specified for the majority of soil in the backfill zone.
4. The trench width shall be wider than shown if required for adequate space to attain the specified compaction in the haunch and bedding zone.
5. For trench walls that are within 10 degrees of vertical, the compaction or firmness of the soil in the trench walls and lower side zone need not be considered.
6. For trench walls with greater than 10 degrees slopes that consist of embankment, the lower side shall be compacted to at least the same compaction as specified for the soil in the backfill zone.
7. Type 1 installation = relatively high quality material & high compaction effort. Type 4 installation = little or no control over material and compaction.

TOWN OF ZEBULON

STD. TRENCH INSTALLATION (TRENCH CONDITION SHOWN)

SCALE: NOT TO SCALE | DETAIL # 36 | DATE: JULY 2010 | SHEET # 5 OF 5

USE WITH STANDARD SPECIFICATIONS ONLY



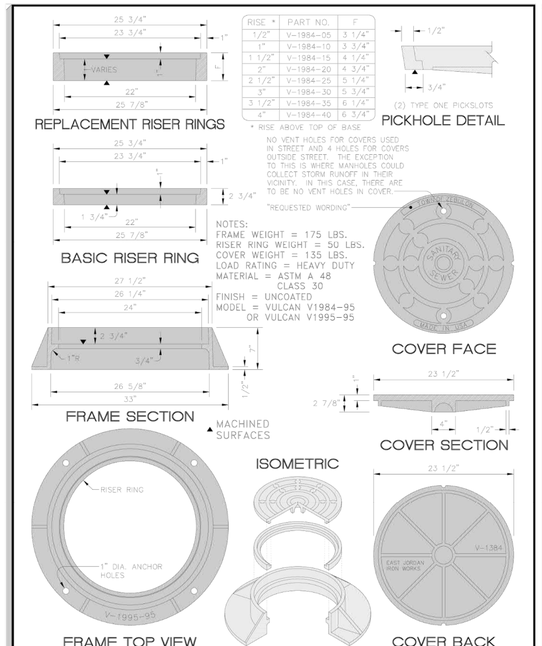
PERSPECTIVE

TOWN OF ZEBULON

STD. M.H. J.B. VARIABLE LENGTH

SCALE: NOT TO SCALE | DETAIL # 37 | DATE: JULY 2010 | SHEET # 1 OF 3

USE WITH STANDARD SPECIFICATIONS ONLY

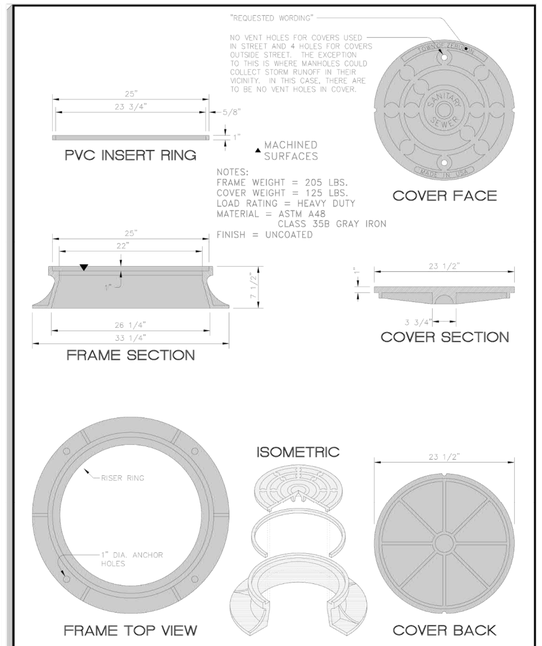


TOWN OF ZEBULON

STANDARD MANHOLE COVER & RING ADJUSTABLE – EAST JORDAN IRON WORKS V-1984

SCALE: NOT TO SCALE | DETAIL # 37 | DATE: JULY 2010 | SHEET # 2 OF 3

USE WITH STANDARD SPECIFICATIONS ONLY

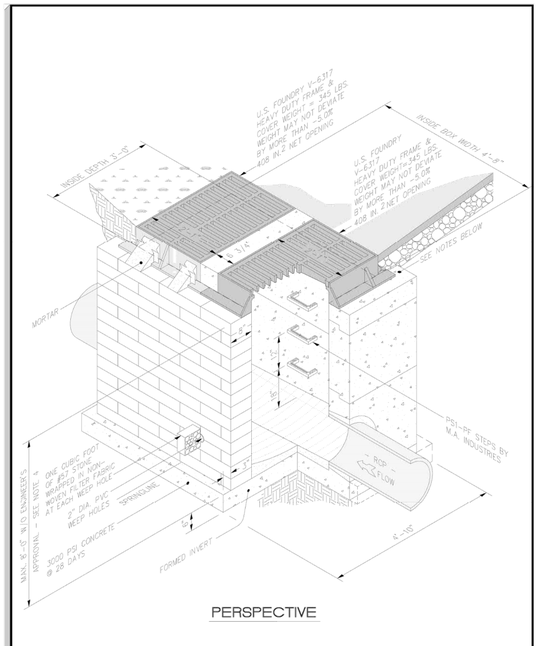


TOWN OF ZEBULON

STANDARD MANHOLE & RING US FOUNDRY 700 KL

SCALE: NOT TO SCALE | DETAIL # 37 | DATE: JULY 2010 | SHEET # 3 OF 3

USE WITH STANDARD SPECIFICATIONS ONLY



PERSPECTIVE

TOWN OF ZEBULON

STD. MULTIPLE 2' x 3' CATCH BASIN DETAIL

SCALE: NOT TO SCALE | DETAIL # 38 | DATE: JULY 2010 | SHEET # 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

McADAMS
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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	NTS
DATE	02. 27. 2024

SHEET

STORM DRAINAGE DETAILS

C8.04

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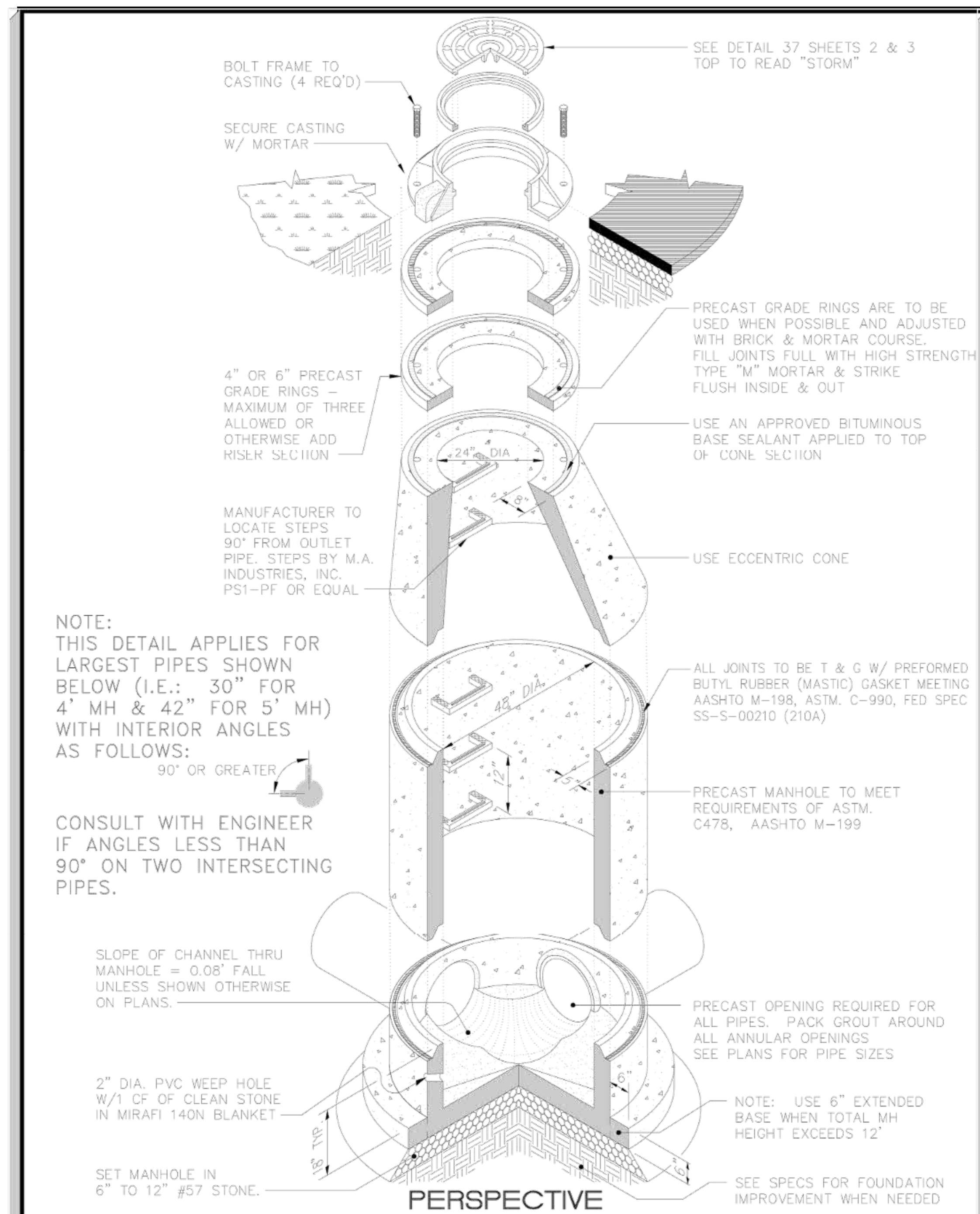
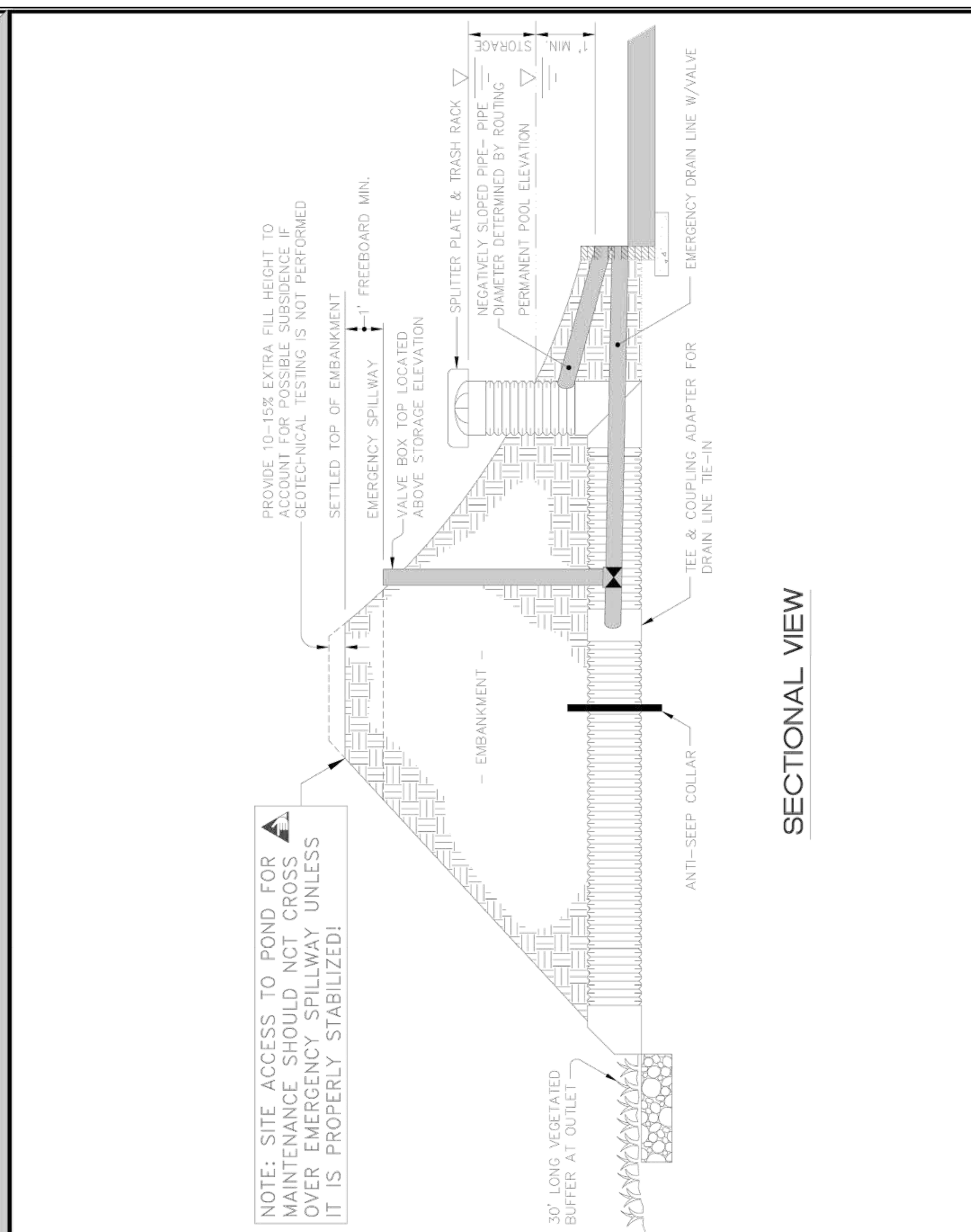


TOWN OF ZEBULON

PRECAST CONCRETE 4' DIA. MH JB

SCALE: NOT TO SCALE | DETAIL # 40 | DATE: JULY 2010 | SHEET # 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY

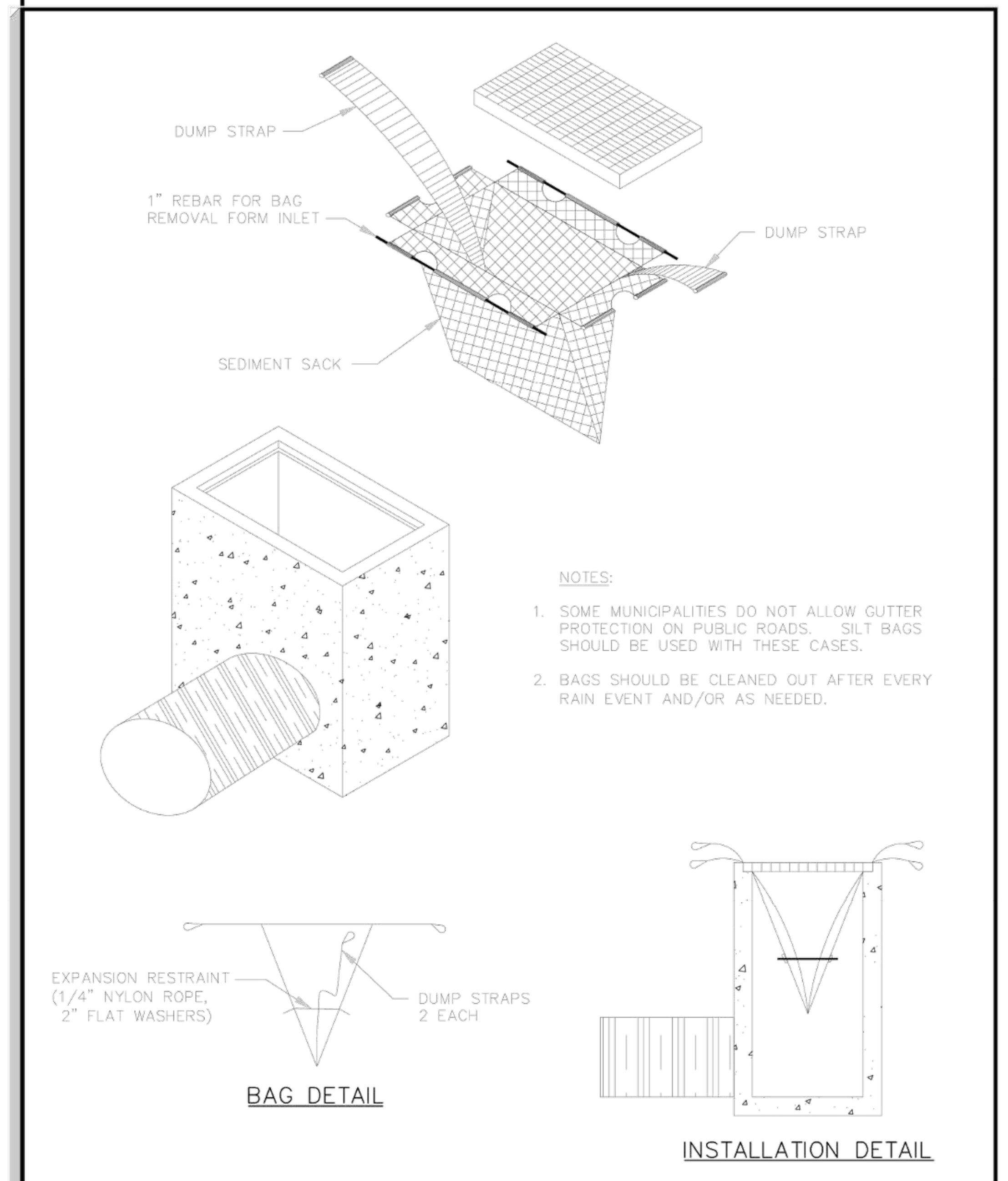


TOWN OF ZEBULON

TYPICAL SPILLWAY DETAIL

SCALE: NOT TO SCALE | DETAIL # 42 | DATE: JULY 2010 | SHEET # 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY



NOTES:
1. SOME MUNICIPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
2. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

TOWN OF ZEBULON

CATCH BASIN – SEDIMENT CONTROL DEVICES

SCALE: NOT TO SCALE | DETAIL # 50 | DATE: JULY 2010 | SHEET # 1 OF 1

USE WITH STANDARD SPECIFICATIONS ONLY

12"-60" (300-1500 mm) HP STORM RESIN PROPERTIES DETAIL

This document provides the material properties for the polypropylene resin used for production of 12"-60" (300-1500 mm) ADS HP Storm dual wall (Type S) and 30"-60" (750-1500 mm) ADS HP Storm triple wall (Type D) pipe, both meeting the requirements of AASHTO M330 (perforated and non-perforated).

Property	Test Method	Unit	Value
Density	ASTM D1505	g/cm³	0.900-0.950
Melt Flow Rate	ASTM D1238	g/10min	0.15-1.5
Flexural Modulus	ASTM D790	psi (MPa)	175,000 to 275,000 (1200 to 1900)
Tensile Strength	ASTM D638	psi (MPa)	3,500 to 4,500 (21 to 31)
Elongation at Yield	ASTM D638	%	5 to 25
IZOD Impact Strength	ASTM D256	ft-lb/in² (kJ/m²)	23.8 (50) to No Break
Oxidative-Induction Time	ASTM D3895	min	25 to 200
75-year Modulus of Elasticity	ASTM D6992	psi (MPa)	27,000 (186) or greater
75-year Tensile Strength	ASTM D6992	psi (MPa)	1,000 (7) or greater

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CHAMBLEE LAKE
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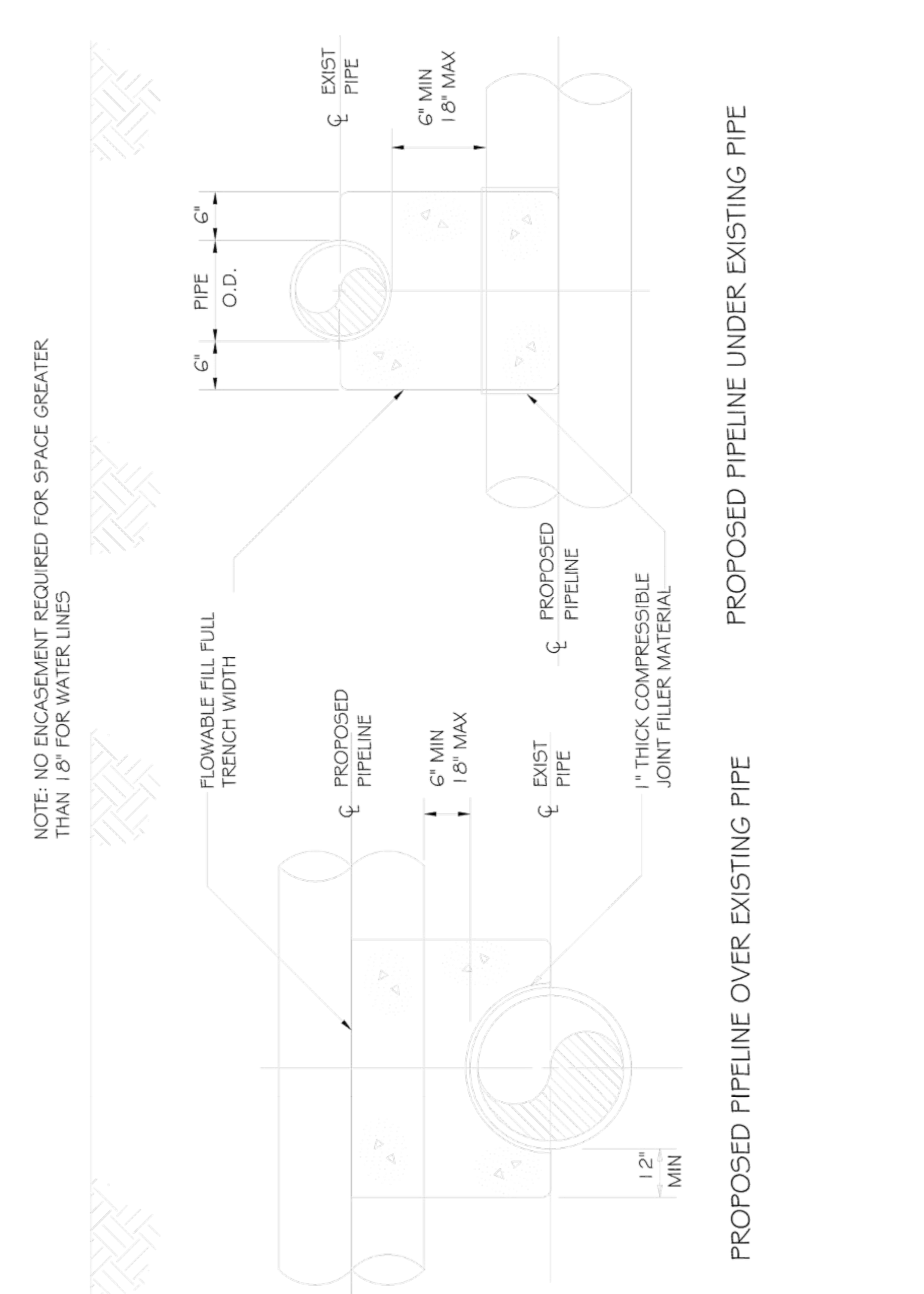

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
CONCRETE CRADLE PROTECTION FOR WATER LINE CROSSINGS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-41	DHL	2-20-08		

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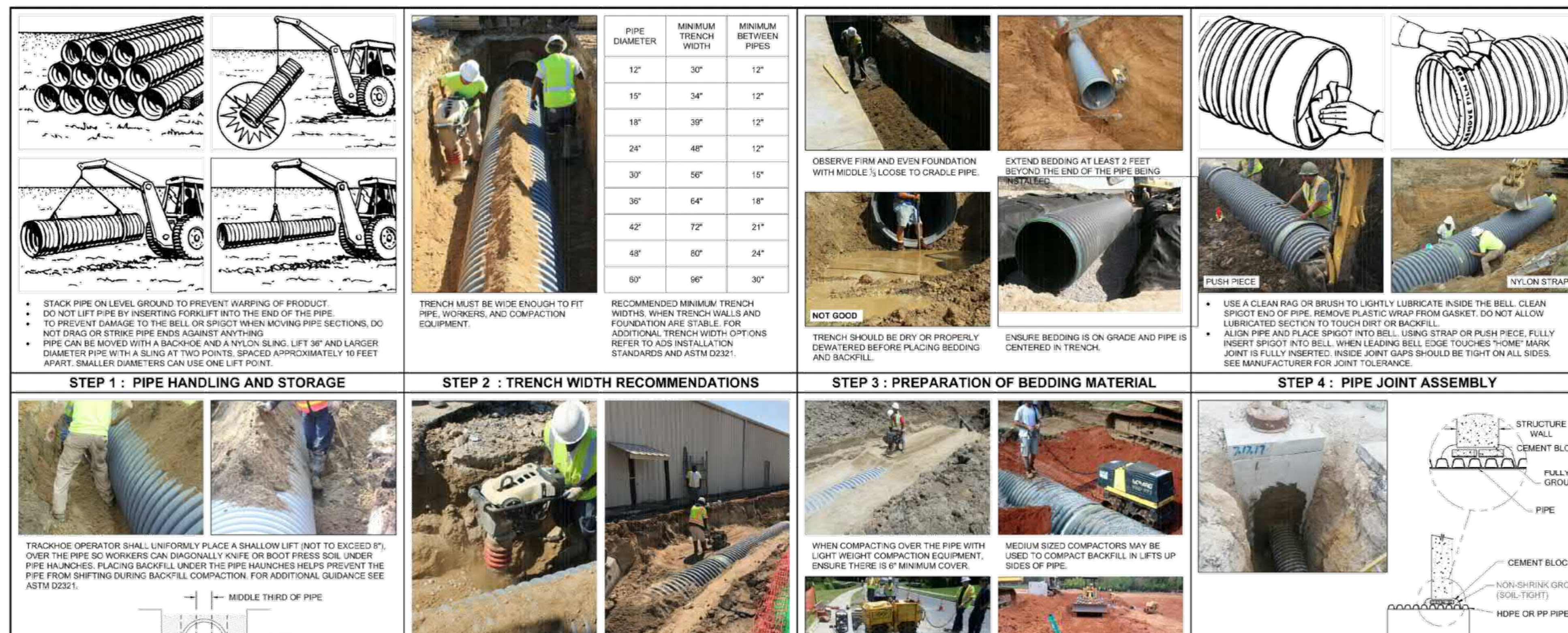
HP STORM INSTALLATION GUIDE



PIPE DIAMETER	MINIMUM TRENCH WIDTH	MINIMUM BETWEEN PIPES
12"	30"	12"
15"	34"	12"
18"	39"	12"
24"	48"	12"
30"	56"	15"
36"	64"	18"
42"	72"	21"
48"	80"	24"
60"	96"	30"

TABLE 1 : MAXIMUM & MINIMUM COVER

MAXIMUM COVER FOR ADS HP STORM PIPE (FT)

PIPE DIA	CLASS I COMPACTED	CLASS II 95% SPD	CLASS II 90% SPD	CLASS III 95% SPD	CLASS III 90% SPD	Class IV 95% SPD
12"	41	28	21	20	16	16
15"	42	29	21	21	16	16
18"	44	30	21	22	17	
24"	37	26	18	19	14	14
30"	39	27	19	19	15	14
36"	28	20	14	14	11	10
42"	30	21	14	15	11	10
48"	29	20	14	14	10	10
60"	29	20	14	14	10	9

FILL HEIGHTS BASED ON CALCULATIONS SHOWN IN THE STRUCTURES SECTION OF THE ADS DRAINAGE HANDBOOK (V20.7). CALCULATIONS ASSUME NO HYDROSTATIC PRESSURE AND A DENSITY OF 120 PCF FOR OVER BURDEN MATERIAL. INSTALLATION IN ACCORDANCE WITH ASTM D2321, WITH FILL HEIGHTS AS SHOWN. SEE TABLE 3 FOR SOIL DATA. STANDARD PROCTOR DENSITY USED FOR COMPACTION. INCREASE SOIL CLASS AND/OR COMPACTION EFFORT AS NEEDED TO MEET REQUIRED FILL HEIGHTS ON PROJECT PLANS

MINIMUM COVER FOR ADS HP STORM PIPE (IN)

PIPE DIA	H20 AXLE LOAD (lbs)	CLASS II @ 90% SPD	CLASS III @ 90% SPD
12" - 48"	32000	12	12
60"	32000	24	24

FOR TRAFFIC APPLICATIONS MINIMUM COVER IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT (ASPHALT) OR TO TOP OF RIGID PAVEMENT (CONCRETE).

MINIMUM COVER VALUES DO NOT ACCOUNT FOR RUTTING OR UNSTABLE SOIL OVER THE PIPE. ADDITIONAL COVER MAY BE REQUIRED TO MAINTAIN THE PIPE'S STRUCTURAL INTEGRITY.

TABLE 2 : MIN. COVER FOR CONSTRUCTION VEHICLES & FLOTATION

MINIMUM COVER FOR CONSTRUCTION VEHICLES

CONSTRUCTION VEHICLE	VEHICLE DESCRIPTION	MINIMUM TIRE	AXLE LOAD (lbs)	PIPE DIAMETER	CLASS I COMPACTED	CLASS II @ 95% SPD	CLASS II @ 90% SPD	CLASS III @ 95% SPD	CLASS III @ 90% SPD
CAT CT660	DUMP TRUCK	22.5-R11	46000	12"-60"	9	9	12	12	18
CAT 16M3	GRADER	23.5-R25	58753	12"-21" / 24"-60"	12	12	15	15	21 / 24
CAT 730C	ARTICULATED DUMP TRUCK	23.5-R25	74538	12"-15" / 18"-60"	15	15	18	18	24 / 27
CAT CS78B¹	ROLLER	84-IN DRUM	74600	12"-21" / 24"-60"	15	15	21	21	24 / 27
KOMATSU WA800-3	WHEEL LOADER	45/65-45	158270	12"-30" / 36"-60"	15	15	21	21	30 / 36

¹ACCELERATOR (VIBRATOR) TURNED ON

MINIMUM COVER VALUES DO NOT ACCOUNT FOR RUTTING OR UNSTABLE SOIL OVER THE PIPE. ADDITIONAL COVER MAY BE REQUIRED TO MAINTAIN THE PIPE'S STRUCTURAL INTEGRITY.

MINIMUM COVER TO PREVENT PIPE FLOTATION

NOMINAL DIAMETER (in)	MINIMUM COVER (in)
12	9
15	11
18	13
24	17
30	22
36	25
42	29
48	33
60	40

FLOTATION NOTES: THE PIPE IS ASSUMED TO BE EMPTY WITH GROUNDWATER TO THE GRADE SURFACE AND SATURATED SOIL DENSITY OF 130 PCF. IF THE PIPE IS FULL OF WATER THESE VALUES MAY BE ADJUSTED BY THE SITE DESIGN ENGINEER. FOR MORE INFORMATION ON FLOTATION, REFER TO ADS TECH NOTE TN 5.05.

TABLE 3 : BACKFILL CLASSIFICATIONS

ASTM D2321 SOIL CLASS¹	ASTM D2487 SOIL GROUP¹,²	AASHTO M145 SOIL GROUPS¹
STONE BACKFILL		
CLASS I²	ANGULAR CRUSHED ROCK, WITH 100% PASSING 1-1/2 IN. SIEVE ≤15% PASSING #4 SIEVE ≤25% PASSING 3/8 IN. SIEVE ≤12% PASSING #200 SIEVE ALL PARTICLE SURFACES SHALL BE FRACTURED.	-
GRAVEL AND SAND BACKFILL		
CLASS II	CLEAN, COARSE GRAINED SOILS: "SW", "SP", "GW", "GP", OR ANY SOIL BEGINNING WITH ONE OF THESE SYMBOLS WITH ≤12% PASSING #200 SIEVE	A1, A3
COARSE GRAINED AND FINE GRAINED SOILS WITH FINES		
CLASS III	COARSE GRAINED SOILS WITH FINES: "GM", "GC", "SM", "SC", OR ANY SOIL BEGINNING WITH ONE OF THESE SYMBOLS, CONTAINING >12% PASSING #200 SIEVE; "CL", "ML", OR ANY SOIL BEGINNING WITH ONE OF THESE SYMBOLS, WITH ≥30% RETAINED ON #200 SIEVE	A-2-4, A-2-5, A-2-6, OR A-4 OR A-6 SOILS WITH MORE THAN 30% RETAINED ON #200 SIEVE
Class IV	INORGANIC FINE GRAINED SOIL SUCH AS FINE SAND AND SOIL CONTAINING 50% OR MORE CLAY AND SILT: "ML" OR "CL", OR ANY SOIL BEGINNING WITH ONE OF THESE SYMBOLS, WITH <30% RETAINED ON #200 SIEVE	A-2-7, or A-4, or A-6 soils with 30% or less retained on #200 sieve

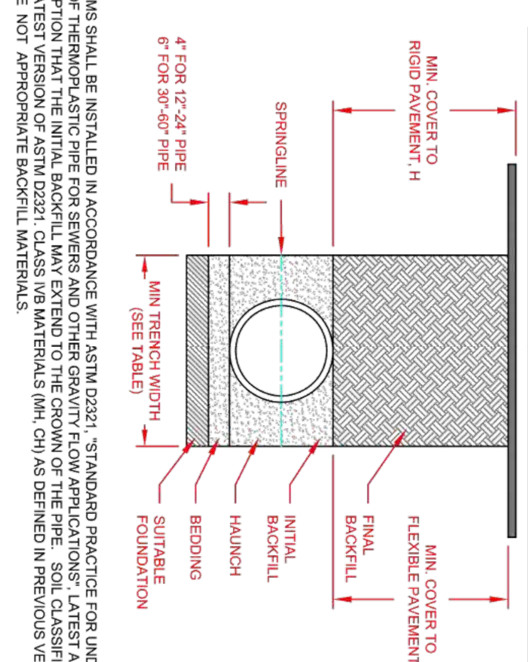
¹SEE ASTM D2321 FOR ADDITIONAL GUIDANCE REGARDING THE USE OF LISTED SOIL AS BACKFILL AROUND THERMOPLASTIC PIPE
²IF DIRECTED BY ENGINEER, WRAP THE TRENCH WITH A GEOTEXTILE TO PREVENT MIGRATION OF FINES INTO AND THROUGH VOIDS IN THE BACKFILL
BACKFILL AROUND PIPE SHALL MEET ASTM D2321 CLASS I, II, OR III UNLESS SPECIFICALLY APPROVED IN WRITING BY THE PROJECT DESIGN ENGINEER AND MAXIMUM COVER DATA IS PROVIDED.

DRAWN: JLM | DATE: 08/20/17 | REVISION: 1 | DWG NO: STD-1301B | NOT TO SCALE

ADS, 4640 TRUEMAN BLVD, HILLIARD, OH 43026 | SHEET 1 OF 1

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

HP STORM TRENCH INSTALLATION DETAIL



NOTES:
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-1500mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS; CLASS I OR II MATERIAL COMPACTED TO 90% SPD AND CLASS III COMPACTED TO 95% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
7. FOR ADDITIONAL INFORMATION SEE TECHNICAL NOTE 2.04.

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION H-25	HEAVY CONSTRUCTION (75T AXLE LOAD)*
12"-48" (300mm - 1200mm)	12" (305mm)	48" (1219mm)
60" (1500mm)	24" (610mm)	60" (1524mm)

*VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

TABLE 3, MAXIMUM COVER FOR ADS HP STORM PIPE, ft

PIPE DIA	CLASS I COMPACTED	CLASS II 95%	CLASS II 90%	CLASS II 85%	CLASS III 95%	CLASS III 90%	CLASS IV 95%
12" (300mm)	41 (12.5m)	28 (8.5m)	21 (6.4m)	16 (4.9m)	20 (6.1m)	16 (4.9m)	16 (4.9m)
15" (375mm)	42 (12.8m)	29 (8.8m)	21 (6.4m)	16 (4.9m)	21 (6.4m)	16 (4.9m)	16 (4.9m)
18" (450mm)	44 (13.4m)	30 (9.1m)	21 (6.4m)	16 (4.9m)	22 (6.7m)	17 (5.2m)	16 (4.9m)
24" (600mm)	37 (11.3m)	26 (7.9m)	18 (5.5m)	14 (4.3m)	19 (5.8m)	14 (4.3m)	14 (4.3m)
30" (750mm)	39 (11.9m)	27 (8.2m)	19 (5.8m)	14 (4.3m)	19 (5.8m)	15 (4.6m)	14 (4.3m)
36" (900mm)	28 (8.5m)	20 (6.1m)	14 (4.3m)	10 (3.0m)	14 (4.3m)	11 (3.4m)	10 (3.0m)
42" (1050mm)	30 (9.1m)	21 (6.4m)	14 (4.3m)	10 (3.0m)	15 (4.6m)	11 (3.4m)	10 (3.0m)
48" (1200mm)	29 (8.8m)	20 (6.1m)	14 (4.3m)	9 (2.7m)	14 (4.3m)	10 (3.0m)	10 (3.0m)
60" (1500mm)	29 (8.8m)	20 (6.1m)	14 (4.3m)	9 (2.7m)	14 (4.3m)	10 (3.0m)	9 (2.7m)

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12, LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE
UNIT WEIGHT OF SOIL (γs) = 120 PCF

REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
6	REV. MAXIMUM COVER HEIGHTS	RWD	01/11/17	

TRENCH INSTALLATION DETAIL (HP STORM) | DRAWING NUMBER: STD-101D | ADS Advanced Drainage Systems, Inc., 4640 TRUEMAN BLVD, HILLIARD, OHIO 43026 | DRAWN BY JAB | DATE 01/29/09 | SCALE NTS | SHEET 1 OF 1

© 2016 ADS, INC.
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER — PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: ____________________ Date: ______________
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: ____________________ Date: ______________
Administrator

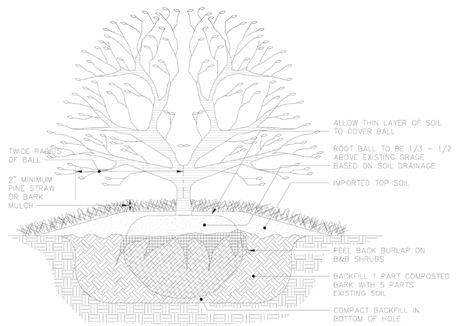
FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	NTS
DATE	02. 27. 2024

SHEET

SEWER DETAILS
C8.05



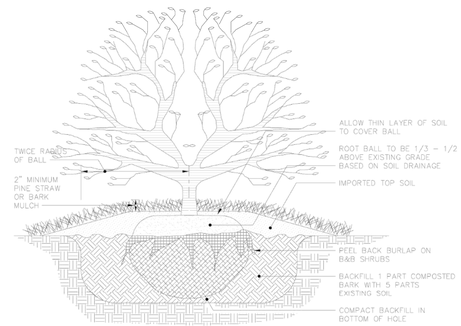
SECTIONAL VIEW

TOWN OF ZEBULON

TYPICAL SHRUB PLANTING DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #
NOT TO SCALE	43
DATE: JULY 2010	SHEET #: 1 OF 1



SECTIONAL VIEW

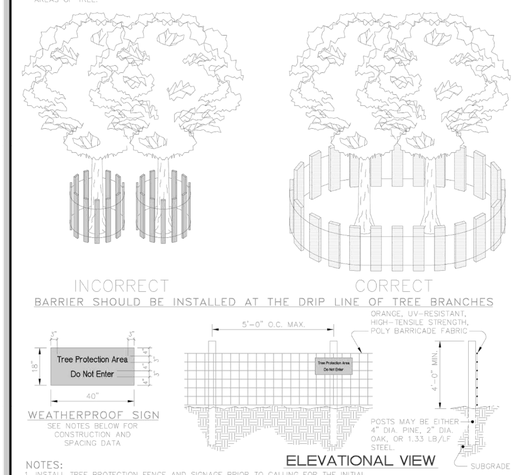
TOWN OF ZEBULON

TYPICAL SHRUB PLANTING DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #
NOT TO SCALE	43
DATE: JULY 2010	SHEET #: 1 OF 1

NOTES:
IN SPITE OF PRECAUTIONS, SOME DAMAGE TO TREES MAY OCCUR.
IN SUCH CASES REPAIR ANY DAMAGE TO CROWN, TRUCK OR ROOT SYSTEM IMMEDIATELY.
- REPAIR ROOTS BY CUTTING OFF THE DAMAGED AREAS AND PAINT THEM WITH TREE PAINT. SPREAD PEAT MOSS OR MOIST TOPSOIL OVER EXPOSED ROOTS.
- REPAIR DAMAGE TO BARK BY TRIMMING AROUND THE DAMAGED AREA AS SHOWN IN DETAIL 45 TAPER THE CUT TO PROVIDE DRAINAGE AND PAINT WITH TREE PAINT.
- CUT OFF ALL DAMAGED TREE LIMBS ABOVE THE TREE COLLAR AT THE TRUNK OR MAIN BRANCH. USE THREE SEPARATE CUTS AS SHOWN IN DETAIL 45 TO AVOID PEELING BARK FROM HEALTHY AREAS OF TREE.



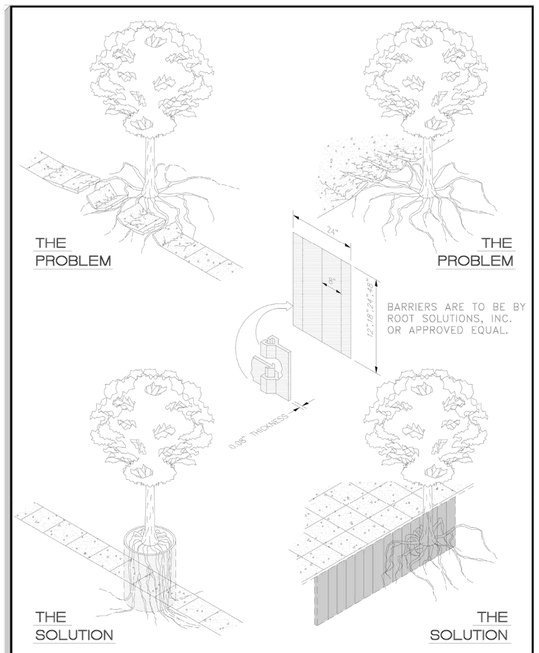
NOTES:
1. INSTALL TREE PROTECTION FENCE AND SIGNAGE PRIOR TO CALLING FOR THE INITIAL ON SITE INSPECTION BY THE TOWN OF ZEBULON CONSTRUCTION INSPECTOR.
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
3. LETTERS ARE TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
4. SIGNS ARE TO BE PLACED NO GREATER THAN 200' ON CENTER.
5. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AREAS AND 200' ON CENTER THEREAFTER.
6. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTED AREA.
7. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
8. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
9. ADDITIONAL SIGNS MAY BE REQUIRED BY TOWN OF ZEBULON PUBLIC WORKS DEPT. BASED ON ACTUAL FIELD CONDITIONS.

TOWN OF ZEBULON

STANDARD TREE PROTECTION DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #
NOT TO SCALE	46
DATE: JULY 2010	SHEET #: 1 OF 1

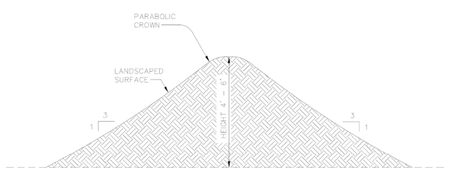


TOWN OF ZEBULON

STANDARD ROOT BARRIER DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #
NOT TO SCALE	47
DATE: JULY 2010	SHEET #: 1 OF 1



DETAIL FOR EARTHEN BERMS WHEN REQUIRED IN COMBINATION WITH PLANT MATERIAL AND FENCING.

SECTIONAL VIEW

NOTES:
1. FILL FOR BERM MAY BE EXCESS TOPSOIL STRIPPED FROM SITE OR UNSUITABLE EARTHEN EXCAVATION FROM PROJECT. CONTRACTOR MAY BURY ROCK AND CONCRETE BUT NO MATERIAL MAY BE BURIED THAT WOULD OTHERWISE REQUIRE A PERMIT AS A DEMOLITION LAND FILL SUCH AS ASPHALT, TIMBER, STUMPS, ETC. SUCH MATERIAL MUST BE BURIED IN A LANDFILL PERMITTED TO ACCEPT THIS TYPE OF WASTE MATERIAL.
2. LANDSCAPE SURFACE SHALL COMPLY WITH TOWN OF ZEBULON LANDSCAPE ORDINANCE. SEE PLANNING DEPARTMENT FOR ADDITIONAL INFORMATION.

TOWN OF ZEBULON

STANDARD LANDSCAPE BERM – NOISE BARRIER DETAIL

USE WITH STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #
NOT TO SCALE	48
DATE: JULY 2010	SHEET #: 1 OF 1

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
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7208 FALLS OF NEUSE ROAD, SUITE 201
RALEIGH, NC 27615
PHONE: 919. 809. 4207

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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 049483 ENGINEER RYAN K. BARKER
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-D1
CHECKED BY	RKB
DRAWN BY	
SCALE	NTS
DATE	02. 27. 2024

SHEET

LANDSCAPE DETAILS

C8.06

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GENERAL NOTES

1. STREET LIGHTS: RESIDENTIAL FIXTURE TYPE - 16' FIBERGLASS POLE IN BLACK OR GREEN WITH TYPE "A" (ACORN) FIXTURE WITH 9500 LUMENS HIGH PRESSURE SODIUM. NO WOOD OR ALUMINUM POLES WILL BE ALLOWED. INSTALLATION MUST BE COORDINATED WITH DUKE PROGRESS ENERGY AND THE TOWN OF ZEBULON PUBLIC WORKS DEPARTMENT.

2. ALL PLANNED IMPROVEMENTS TO ROADWAYS AND RIGHT-OF-WAY OWNED AND MAINTAINED BY THE NC DEPARTMENT OF TRANSPORTATION (NCDOT), INCLUDING IMPROVEMENTS THAT REQUIRE OFF-SITE PROPERTY ACQUISITION AND/OR EASEMENTS, ARE SUBJECT TO NCDOT APPROVAL DURING SUBSEQUENT PHASES OF DEVELOPMENT. IF ANY IMPROVEMENTS ARE NOT APPROVED BY NCDOT, ALTERNATIVE DESIGNS MAY BE ADMINISTRATIVELY APPROVED BY TOWN STAFF.

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACCESSIBLE PARKING STALL
- ACC / VAN — VAN ACCESSIBLE PARKING STALL
- TYPE A, TYPE B, TYPE C — ACCESSIBLE RAMPS
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN

NOTE:
– SEE SHEET C2.00 FOR ADJACENT PROPERTY INFORMATION

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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 1640 JULIE G. YOUNG — NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=150'
DATE	02. 26. 2024

SHEET

OVERALL LANDSCAPE PLAN

L5.00

GRAPHIC SCALE
0 75 150 300
1 INCH = 150 FT.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
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Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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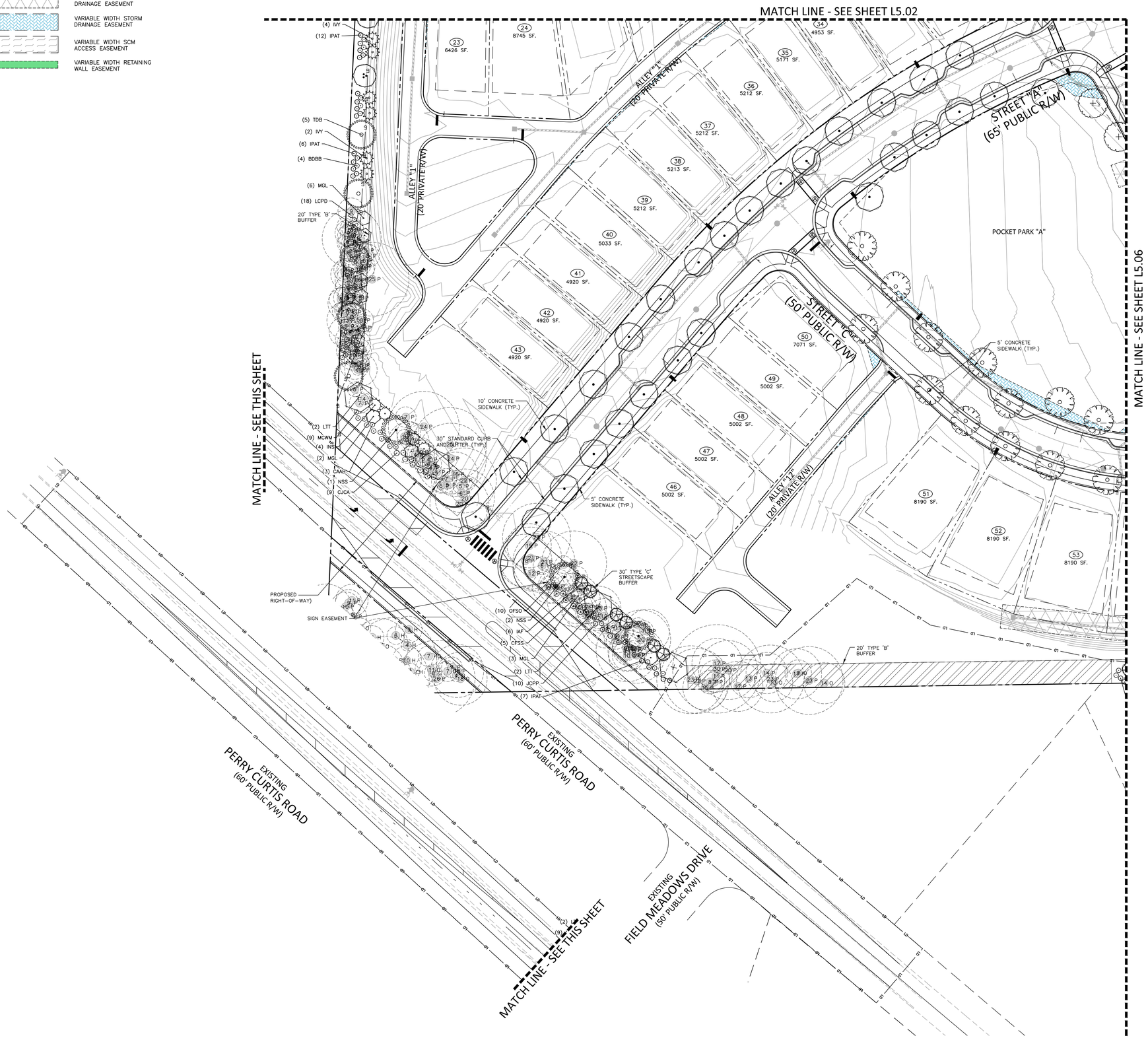
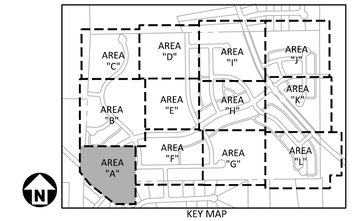
EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT





KEY MAP

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN

PLANT SCHEDULE AREA A

SYMBOL	CODE	BOTANICAL NAME
CANOPY TREES		
	ARO	Acer rubrum 'October Glory' TM
	BND	Betula nigra 'Duraheat'
	LTT	Liriodendron tulipifera
	NSS	Nyssa sylvatica
	QNN	Quercus nuttallii
	TDB	Taxodium distichum
	UPC	Ulmus parvifolia
EVERGREEN UNDERSTORY TREES		
	IAF	Ilex x attenuata 'Foster No. 2'
	INS	Ilex x 'Nellie R Stevens'
	IVY	Ilex vomitoria
	MGL	Magnolia grandiflora 'Little Gem'
DECIDUOUS SHRUBS		
	BDBB	Buddleja davidii
	CAAB	Callicarpa americana
	CFSS	Calycanthus floridus
EVERGREEN SHRUBS		
	CJCA	Camellia japonica
	IPAT	Illicium parviflorum
	JCPP	Juniperus chinensis 'Pfitzeriana'
	LCPD	Loropetalum chinense 'Purple Diamond'
	MCWM	Myrica cerifera
	OFSO	Osmanthus fragrans

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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Raleigh, NC 27603
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license number: C-0293, C-187
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RALEIGH, NC 27615
PHONE: 919. 809. 4207

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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 1640 JULIE G. YOUNG
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

LANDSCAPE PLAN AREA "A"

L5.01

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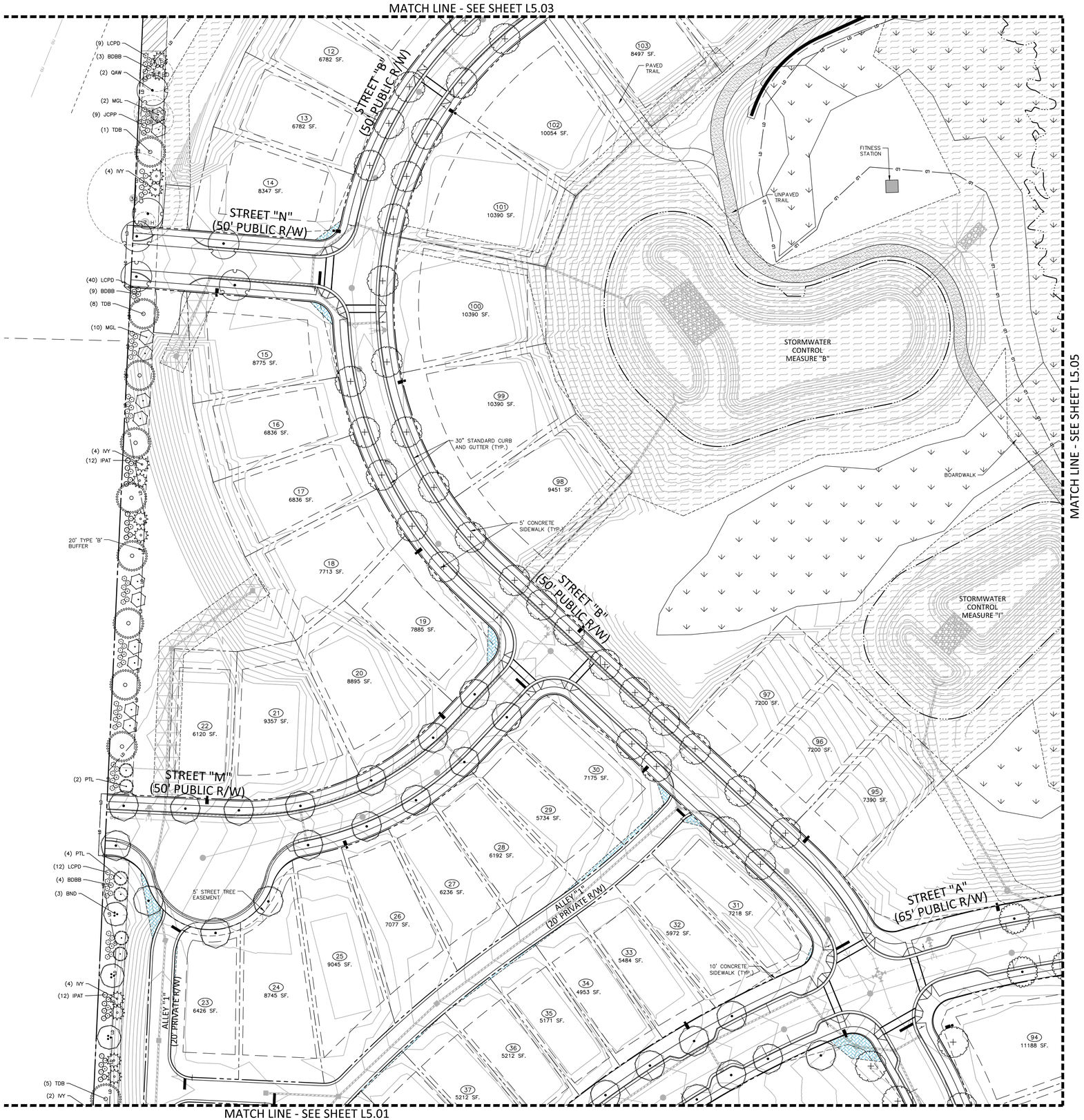

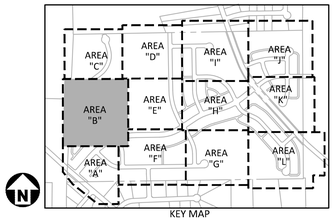

KEY MAP

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC / VAN — ACCESSIBLE PARKING STALL; VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN

PLANT SCHEDULE AREA B

SYMBOL	CODE	BOTANICAL NAME
CANOPY TREES		
	ARO	Acer rubrum 'October Glory' TM
	BND	Betula nigra 'Duraheat'
	QAW	Quercus alba
	QLO	Quercus lyrata
	QNN	Quercus nuttallii
	TDB	Taxodium distichum
EVERGREEN TREES		
	PTL	Pinus taeda
EVERGREEN UNDERSTORY TREES		
	IVY	Ilex vomitoria
	MGL	Magnolia grandiflora 'Little Gem'
DECIDUOUS SHRUBS		
	BDBB	Buddleja davidii
EVERGREEN SHRUBS		
	IPAT	Illicium parviflorum
	JCPP	Juniperus chinensis 'Pfitzeriana'
	LCPD	Loropetalum chinense 'Purple Diamond'

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

N

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
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CHAMBLEE LAKE
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1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL LANDSCAPE ARCHITECT 1640 JULIE G. YOUNG
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

LANDSCAPE PLAN AREA "B"

L5.02

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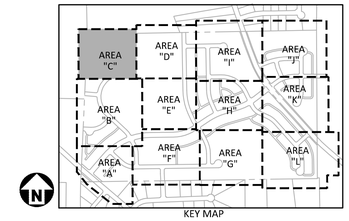
MATCH LINE - SEE SHEET L5.04

MATCH LINE - SEE SHEET L5.02



KEY MAP

SITE LEGEND

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- YARD LIGHTS
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- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- TYPE (A) TYPE (B) TYPE (C) — ACCESSIBLE RAMPS
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN

PLANT SCHEDULE AREA C

SYMBOL	CODE	BOTANICAL NAME
CANOPY TREES		
	ARO	Acer rubrum 'October Glory' TM
	QAW	Quercus alba
	TDB	Taxodium distichum
EVERGREEN TREES		
	PTL	Pinus taeda
EVERGREEN UNDERSTORY TREES		
	IVY	Ilex vomitoria
	MGL	Magnolia grandiflora 'Little Gem'
DECIDUOUS SHRUBS		
	BDBB	Buddleja davidii
	CAAB	Callicarpa americana
	CFSS	Calycanthus floridus
EVERGREEN SHRUBS		
	CSCC	Camellia sasanqua
	IPAT	Illicium parviflorum
	JCPP	Juniperus chinensis 'Pfitzeriana'
	LCPD	Loropetalum chinense 'Purple Diamond'
	OFSO	Osmanthus fragrans

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

GRAPHIC SCALE
0 20 40 80
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phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

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RALEIGH, NC 27615
PHONE: 919. 809. 4207

D·R·HORTON America's Builder

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1640 JULIE G. YOUNG
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

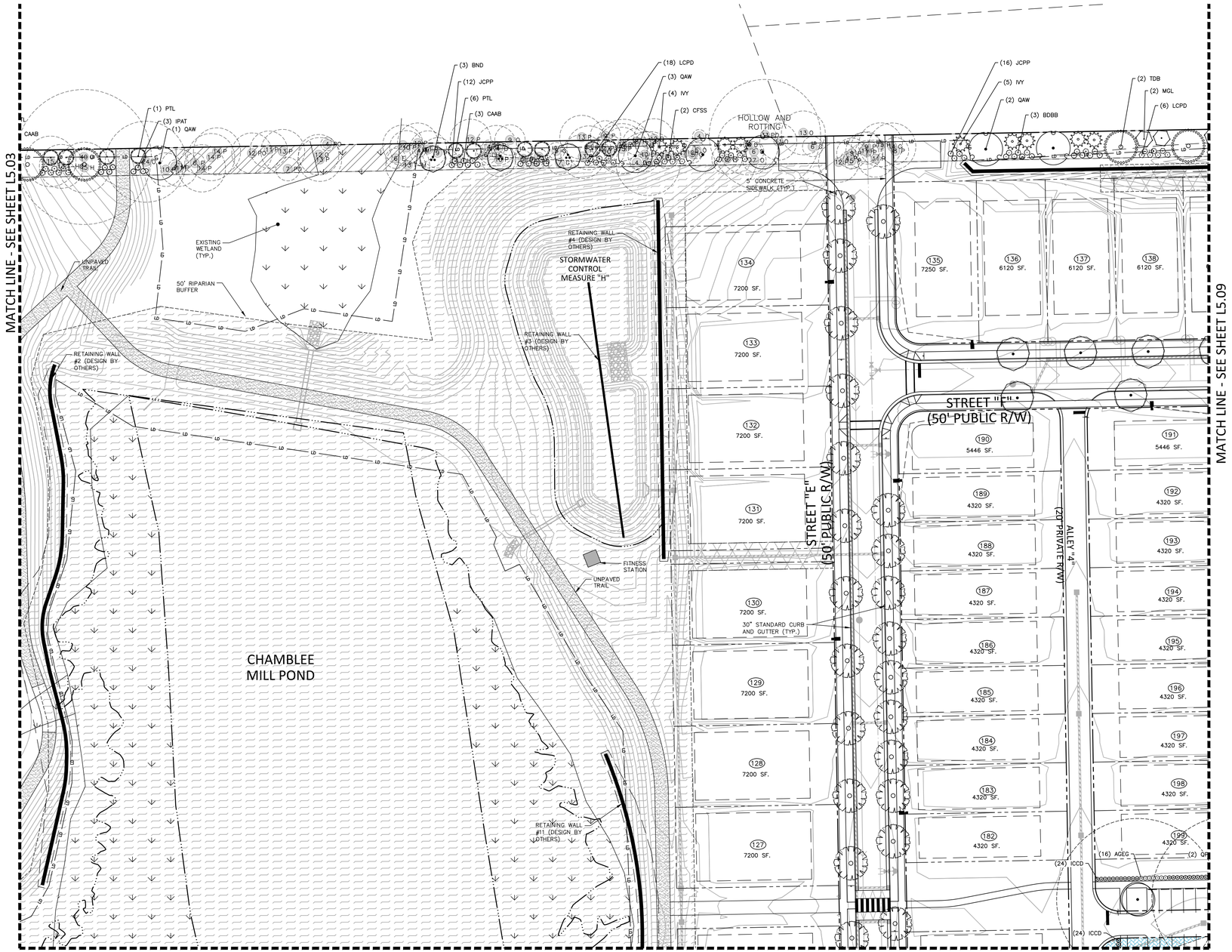
PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

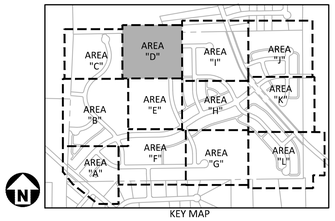
SHEET

LANDSCAPE PLAN AREA "C"

L5.03

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-S1.dwg, 2/26/2024 3:49:51 PM, Siong Ma





KEY MAP

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN

PLANT SCHEDULE AREA D

SYMBOL	CODE	BOTANICAL NAME
CANOPY TREES		
	BND	Betula nigra 'Duraheat'
	QAW	Quercus alba
	QNN	Quercus nuttallii
	TDB	Taxodium distichum
	UPC	Ulmus parvifolia
EVERGREEN TREES		
	PTL	Pinus taeda
EVERGREEN UNDERSTORY TREES		
	IVY	Ilex vomitoria
	MGL	Magnolia grandiflora 'Little Gem'
DECIDUOUS SHRUBS		
	BDBB	Buddleja davidii
	CAAB	Callicarpa americana
	CFSS	Calycanthus floridus
EVERGREEN SHRUBS		
	AGEG	Abelia x grandiflora 'Edward Goucher'
	CSCC	Camellia sasanqua
	ICCD	Ilex crenata 'Compacta'
	IPAT	Illicium parviflorum
	JCPP	Juniperus chinensis 'Pfitzeriana'
	LCPD	Loropetalum chinense 'Purple Diamond'

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

N

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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NORTH CAROLINA PROFESSIONAL LANDSCAPE ARCHITECT SEAL 1640 JULIE G. YOUNG
FOR REVIEW NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

LANDSCAPE PLAN AREA "D"

L5.04

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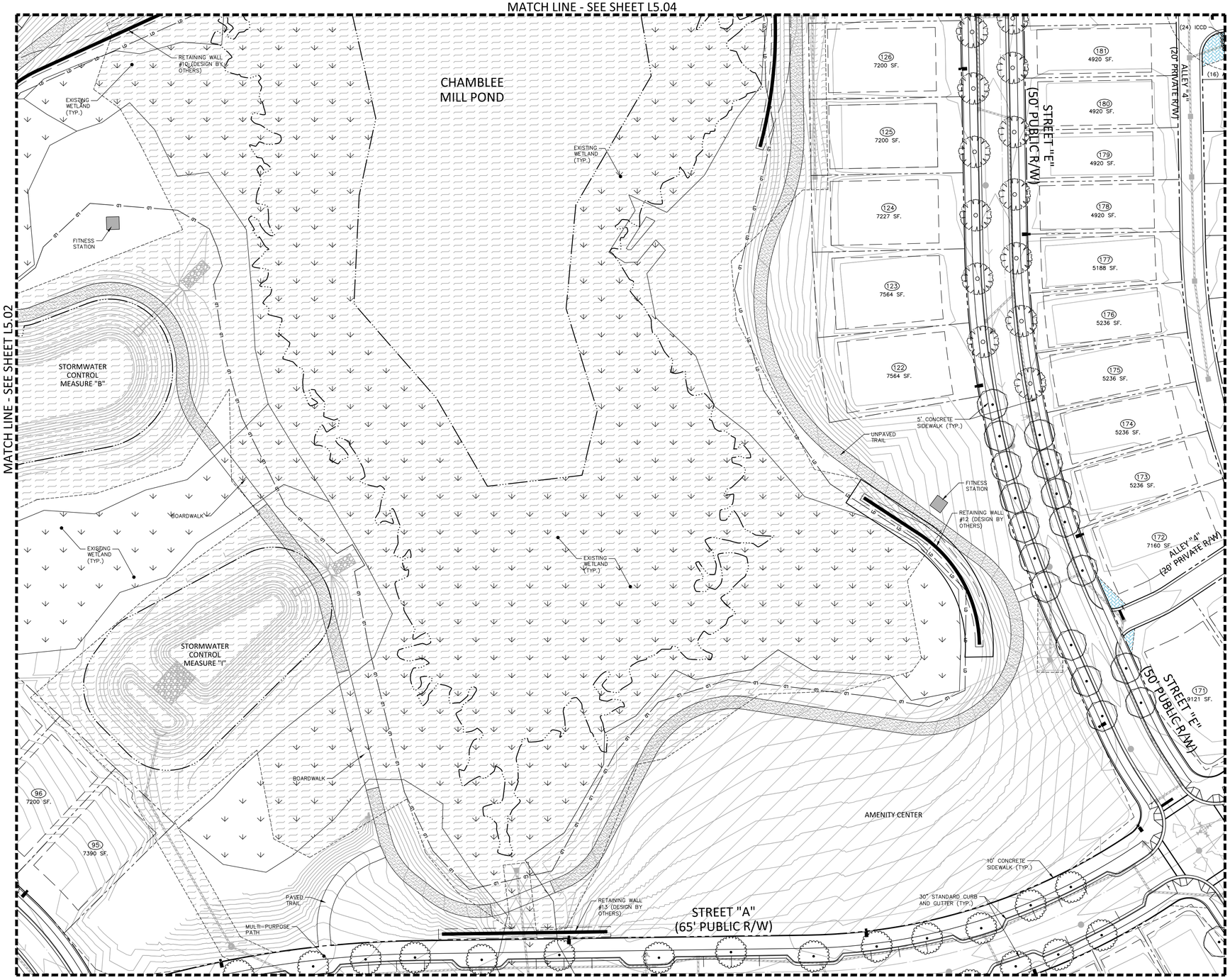

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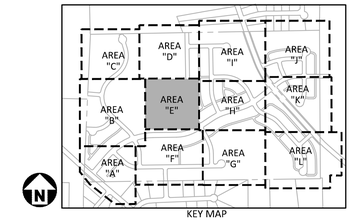

KEY MAP

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC / VAN — ACCESSIBLE PARKING STALL; VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN

PLANT SCHEDULE AREA E

SYMBOL	CODE	BOTANICAL NAME
CANOPY TREES		
+	ARO	Acer rubrum 'October Glory' TM
	QLO	Quercus lyrata
	QNN	Quercus nuttallii
	UPC	Ulmus parvifolia
EVERGREEN SHRUBS		
	ICCD	Ilex crenata 'Compacta'

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

N

GRAPHIC SCALE
0 20 40 80
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Administrator

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ZEBULON, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1640 JULIE G. YOUNG
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

LANDSCAPE PLAN
AREA "E"

L5.05

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-S1.dwg, 2/26/2024 3:50:20 PM, Sicong Ma

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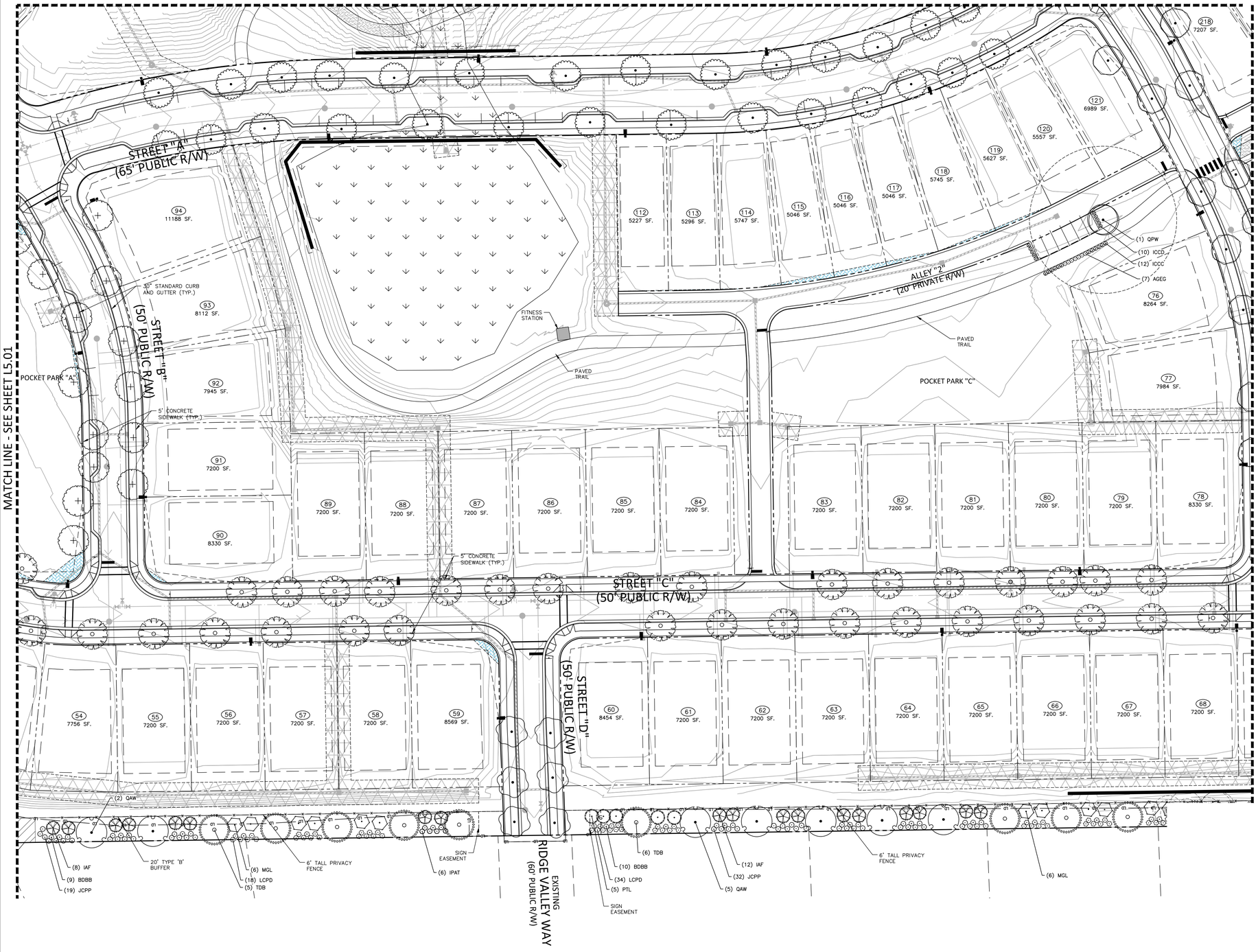
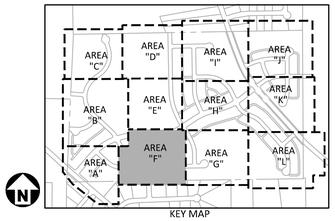


MATCH LINE - SEE SHEET L5.01

MATCH LINE - SEE SHEET L5.07



KEY MAP

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN

PLANT SCHEDULE AREA F

SYMBOL	CODE	BOTANICAL NAME
CANOPY TREES		
	ARO	Acer rubrum 'October Glory' TM
	QAW	Quercus alba
	QCS	Quercus coccinea
	QLO	Quercus lyrata
	QNN	Quercus nuttallii
	QPW	Quercus phellos
	TDB	Taxodium distichum
	UPC	Ulmus parvifolia
EVERGREEN TREES		
	PTL	Pinus taeda
EVERGREEN UNDERSTORY TREES		
	IAF	Ilex x attenuata 'Foster No. 2'
	MGL	Magnolia grandiflora 'Little Gem'
DECIDUOUS SHRUBS		
	BDBB	Buddleja davidii
EVERGREEN SHRUBS		
	AGEG	Abelia x grandiflora 'Edward Goucher'
	ICCC	Ilex cornuta 'Carissa'
	ICCD	Ilex crenata 'Compacta'
	IPAT	Illicium parviflorum
	JCPP	Juniperus chinensis 'Pfitzeriana'
	LCPD	Loropetalum chinense 'Purple Diamond'

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
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Administrator

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ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL LANDSCAPE ARCHITECT 1640 JULIE G. YOUNG
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

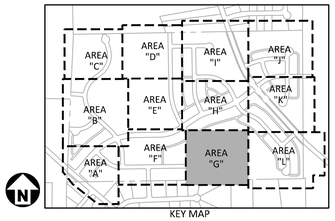
PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

LANDSCAPE PLAN
AREA "F"

L5.06

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawing\DRH22004-S1.dwg, 2/26/2024 3:50:36 PM, Sicong Ma



SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC / VAN — ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN

PLANT SCHEDULE AREA G

SYMBOL	CODE	BOTANICAL NAME
CANOPY TREES		
	BND	Betula nigra 'Duraheat'
	QAW	Quercus alba
	QNN	Quercus nuttallii
	QPW	Quercus phellos
	TDB	Taxodium distichum
	UAP	Ulmus americana 'Princeton'
	UPC	Ulmus parvifolia
EVERGREEN TREES		
	PTL	Pinus taeda
EVERGREEN UNDERSTORY TREES		
	IAF	Ilex x attenuata 'Foster No. 2'
	MGL	Magnolia grandiflora 'Little Gem'
DECIDUOUS SHRUBS		
	BDBB	Buddleja davidii
EVERGREEN SHRUBS		
	AGEG	Abelia x grandiflora 'Edward Goucher'
	ICCC	Ilex cornuta 'Carissa'
	ICCD	Ilex crenata 'Compacta'
	IPAT	Illicium parviflorum
	JCPP	Juniperus chinensis 'Pfitzeriana'
	LCPD	Loropetalum chinense 'Purple Diamond'

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

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ZEBULON, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1640 JULIE G. YOUNG
NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

LANDSCAPE PLAN AREA "G"

L5.07

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-L51.dwg, 2/26/2024 3:51:03 PM, Siong Ma

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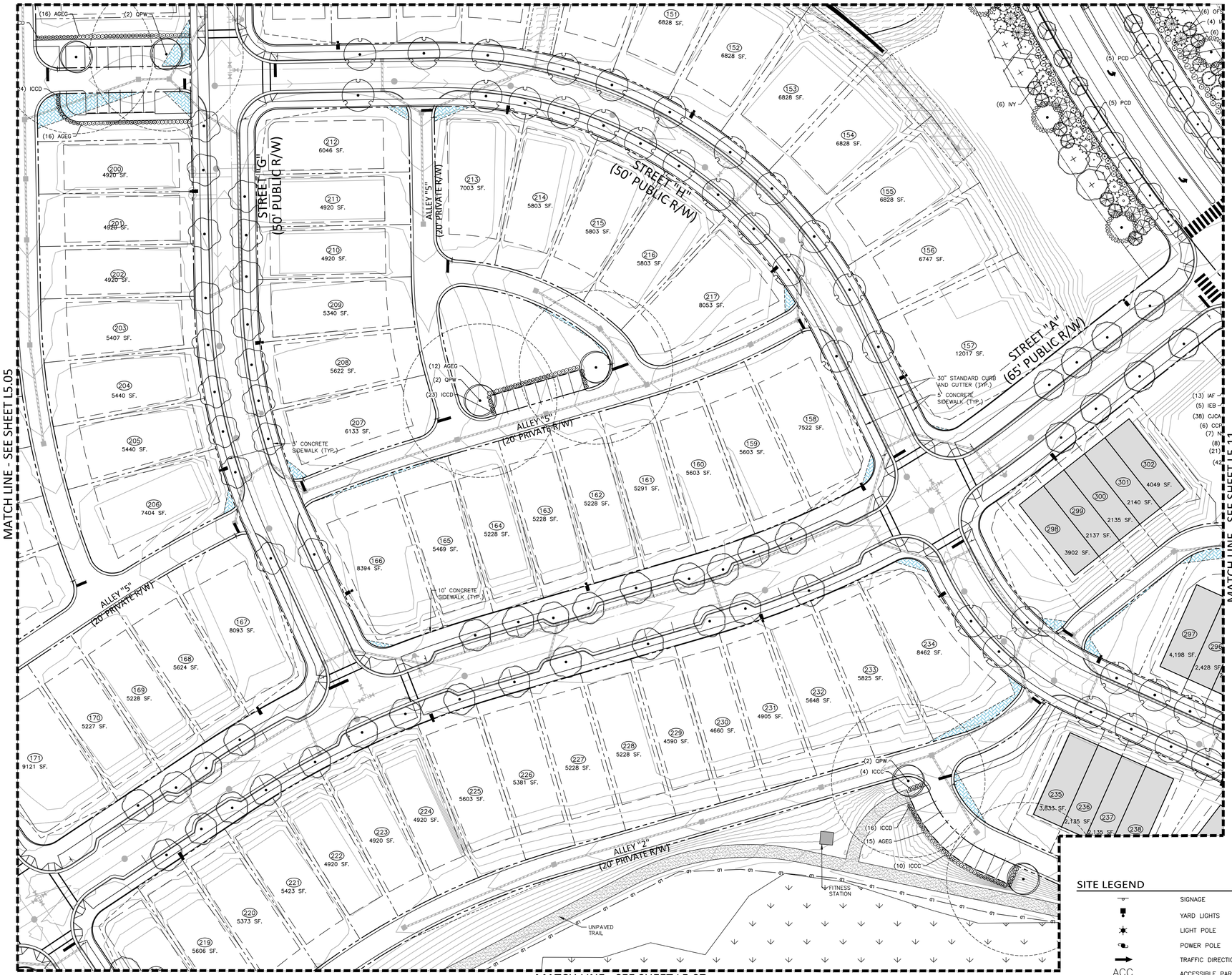
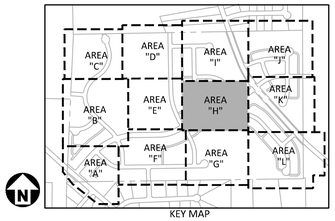


MATCH LINE - SEE SHEET L5.05

MATCH LINE - SEE SHEET L5.11

MATCH LINE - SEE SHEET L5.07



PLANT SCHEDULE AREA H

SYMBOL	CODE	BOTANICAL NAME
UNDERSTORY TREES		
	ATR	Acer truncatum
	CCP	Cercis canadensis 'Forest Pansy' TM
	LNW	Lagerstroemia x 'Natchez'
	PCD	Pistacia chinensis 'Keith Davey'
CANOPY TREES		
	LTT	Liriodendron tulipifera
	NSS	Nyssa sylvatica
	QAW	Quercus alba
	QCS	Quercus coccinea
	QNN	Quercus nuttallii
	QPP	Quercus palustris
	QPW	Quercus phellos
	UAP	Ulmus americana 'Princeton'
EVERGREEN TREES		
	PTL	Pinus taeda
EVERGREEN UNDERSTORY TREES		
	IAF	Ilex x attenuata 'Foster No. 2'
	INS	Ilex x 'Nellie R Stevens'
	IVY	Ilex vomitoria
	JVB	Juniperus virginiana 'Brodie'
	MGL	Magnolia grandiflora 'Little Gem'
	PCL	Prunus caroliniana
DECIDUOUS SHRUBS		
	CAAB	Callicarpa americana
	CFSS	Calycanthus floridus
EVERGREEN SHRUBS		
	AGEG	Abelia x grandiflora 'Edward Goucher'
	CJCA	Camellia japonica
	ICBB	Ilex cornuta 'Burfordii'
	ICCC	Ilex cornuta 'Carissa'
	ICCD	Ilex crenata 'Compacta'
	MCWM	Myrica cerifera
	OFSO	Osmanthus fragrans

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- TYPE A, TYPE B, TYPE C — ACCESSIBLE RAMPS
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

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ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL LANDSCAPE ARCHITECT 1640 JULIE G. YOUNG
FOR REVIEW NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

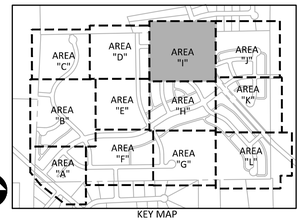
LANDSCAPE PLAN AREA "H"

L5.08

M:\Projects\DRH\DRH22004\04-Production\Engineering\Construction Drawings\Current Drawings\DRH22004-L51.dwg, 2/26/2024 3:51:20 PM, Scong Ma

EASEMENT LEGEND

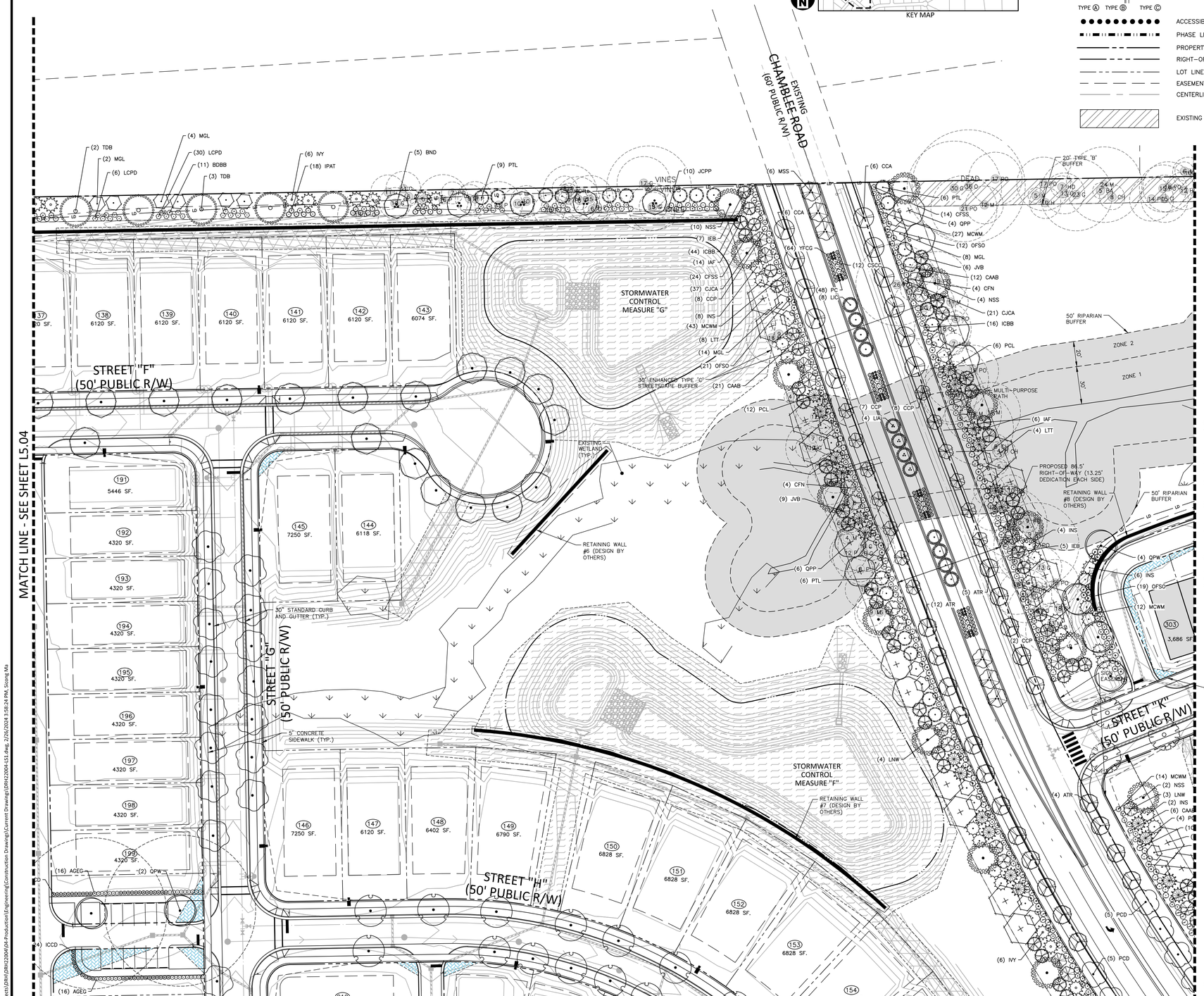
- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT



KEY MAP

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC / VAN — ACCESSIBLE PARKING STALL / VAN ACCESSIBLE PARKING STALL
- TYPE Ⓐ TYPE Ⓑ TYPE Ⓒ — ACCESSIBLE RAMPS
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN



GRAPHIC SCALE
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By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

PLANT SCHEDULE AREA I

SYMBOL	CODE	BOTANICAL NAME
UNDERSTORY TREES		
	ATR	Acer truncatum
	CCA	Carpinus caroliniana
	CCP	Cercis canadensis 'Forest Pansy' TM
	CFN	Cornus florida 'Cloud Nine'
	LIA	Lagerstroemia indica 'Alba'
	LIC	Lagerstroemia indica 'Cherokee'
	LNW	Lagerstroemia x 'Natchez'
	MSS	Magnolia x soulangiana
	PCD	Pistacia chinensis 'Keith Davey'
CANOPY TREES		
	BND	Betula nigra 'Duraheat'
	LTT	Liriodendron tulipifera
	NSS	Nyssa sylvatica
	QAW	Quercus alba
	QCS	Quercus coccinea
	QNN	Quercus nuttallii
	QPP	Quercus palustris
	QPW	Quercus phellos
	TDB	Taxodium distichum
	UPC	Ulmus parvifolia
EVERGREEN TREES		
	PTL	Pinus taeda
EVERGREEN UNDERSTORY TREES		
	IAF	Ilex x attenuata 'Foster No. 2'
	IEB	Ilex x 'Emily Bruner'
	INS	Ilex x 'Nellie R Stevens'
	IVY	Ilex vomitoria
	JVB	Juniperus virginiana 'Brodie'
	MGL	Magnolia grandiflora 'Little Gem'
	PCL	Prunus caroliniana
DECIDUOUS SHRUBS		
	BDBB	Buddleja davidii
	CAAB	Callicarpa americana
	CFSS	Calycanthus floridus
EVERGREEN SHRUBS		
	AGEG	Abelia x grandiflora 'Edward Goucher'
	CJCA	Camellia japonica
	CSCC	Camellia sasanqua
	ICBB	Ilex cornuta 'Burfordii'
	ICCD	Ilex crenata 'Compacta'
	IPAT	Illicium parviflorum
	JCPP	Juniperus chinensis 'Pfitzeriana'
	LCPD	Loropetalum chinense 'Purple Diamond'
	MCWM	Myrica cerifera
	OFSO	Osmanthus fragrans
	YFCG	Yucca filamentosa 'Color Guard'
ORNAMENTAL GRASSES		
	PC	Panicum virgatum 'Cape Breeze'

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RALEIGH, NC 27615
PHONE: 919. 809. 4207

D·R·HORTON America's Builder

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL LANDSCAPE ARCHITECT 1640 JULIE G. YOUNG
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

LANDSCAPE PLAN AREA "I"

L5.09

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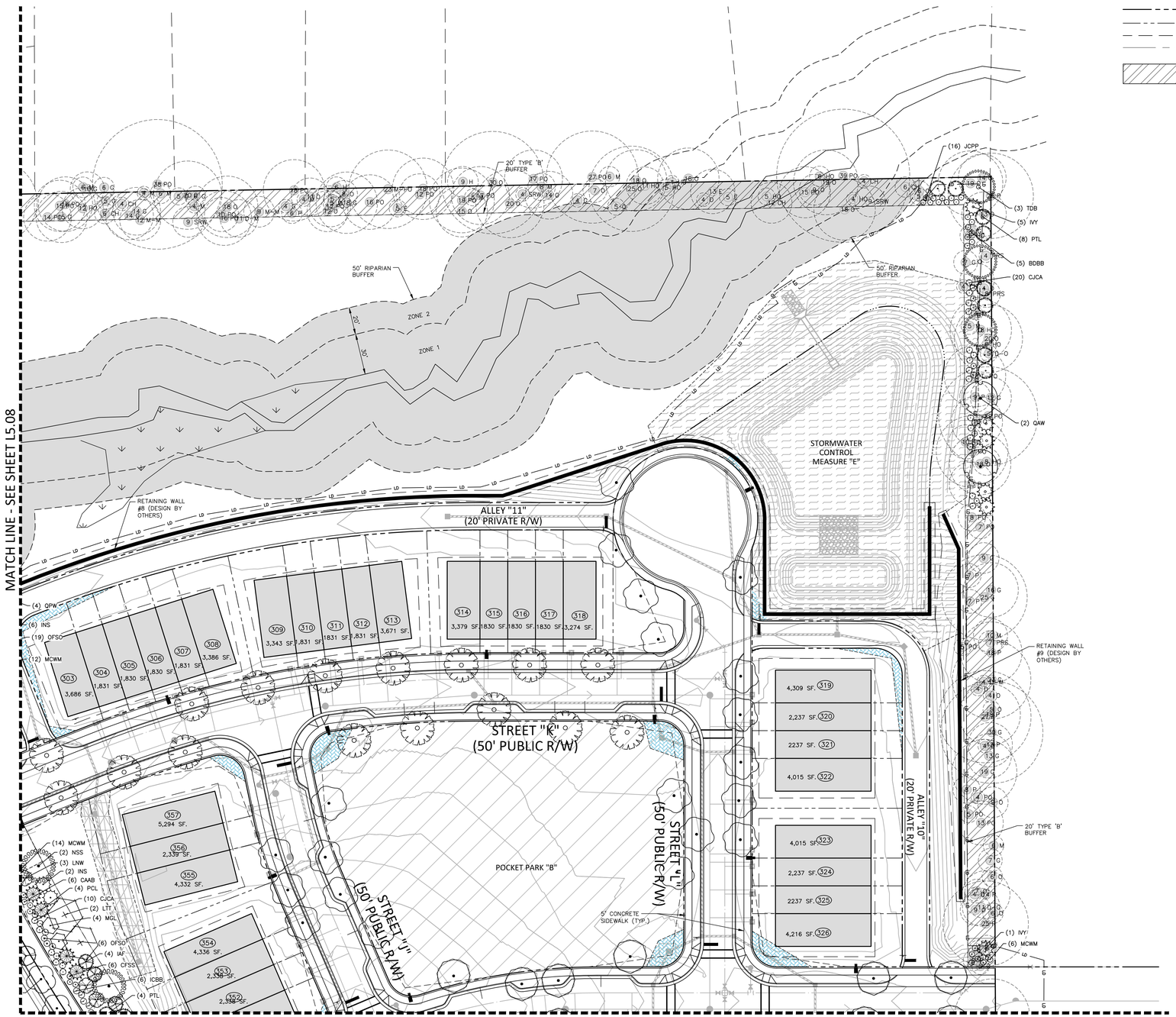
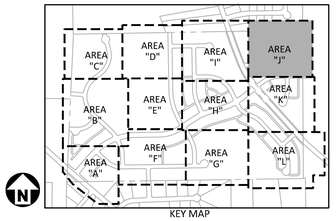


SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC / VAN — ACCESSIBLE PARKING STALL; VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN



PLANT SCHEDULE AREA J

SYMBOL	CODE	BOTANICAL NAME
UNDERSTORY TREES		
	ATR	Acer truncatum
	LNW	Lagerstroemia x 'Natchez'
	PCD	Pistacia chinensis 'Keith Davey'
CANOPY TREES		
	LTT	Liriodendron tulipifera
	NSS	Nyssa sylvatica
	QAW	Quercus alba
	QCS	Quercus coccinea
	QNN	Quercus nuttallii
	TDB	Taxodium distichum
	UPC	Ulmus parvifolia
EVERGREEN TREES		
	PTL	Pinus taeda
EVERGREEN UNDERSTORY TREES		
	IAF	Ilex x attenuata 'Foster No. 2'
	INS	Ilex x 'Nellie R Stevens'
	IVY	Ilex vomitoria
	MGL	Magnolia grandiflora 'Little Gem'
	PCL	Prunus caroliniana
DECIDUOUS SHRUBS		
	BDBB	Buddleja davidii
	CAAB	Callicarpa americana
	CFSS	Calycanthus floridus
EVERGREEN SHRUBS		
	CJCA	Camellia japonica
	ICBB	Ilex cornuta 'Burfordii'
	JCPP	Juniperus chinensis 'Pfitzeriana'
	MCWM	Myrica cerifera
	OFSO	Osmanthus fragrans

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

N

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 1640 ENGINEER JULIE G. YOUNG NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

LANDSCAPE PLAN AREA "J"

L5.10

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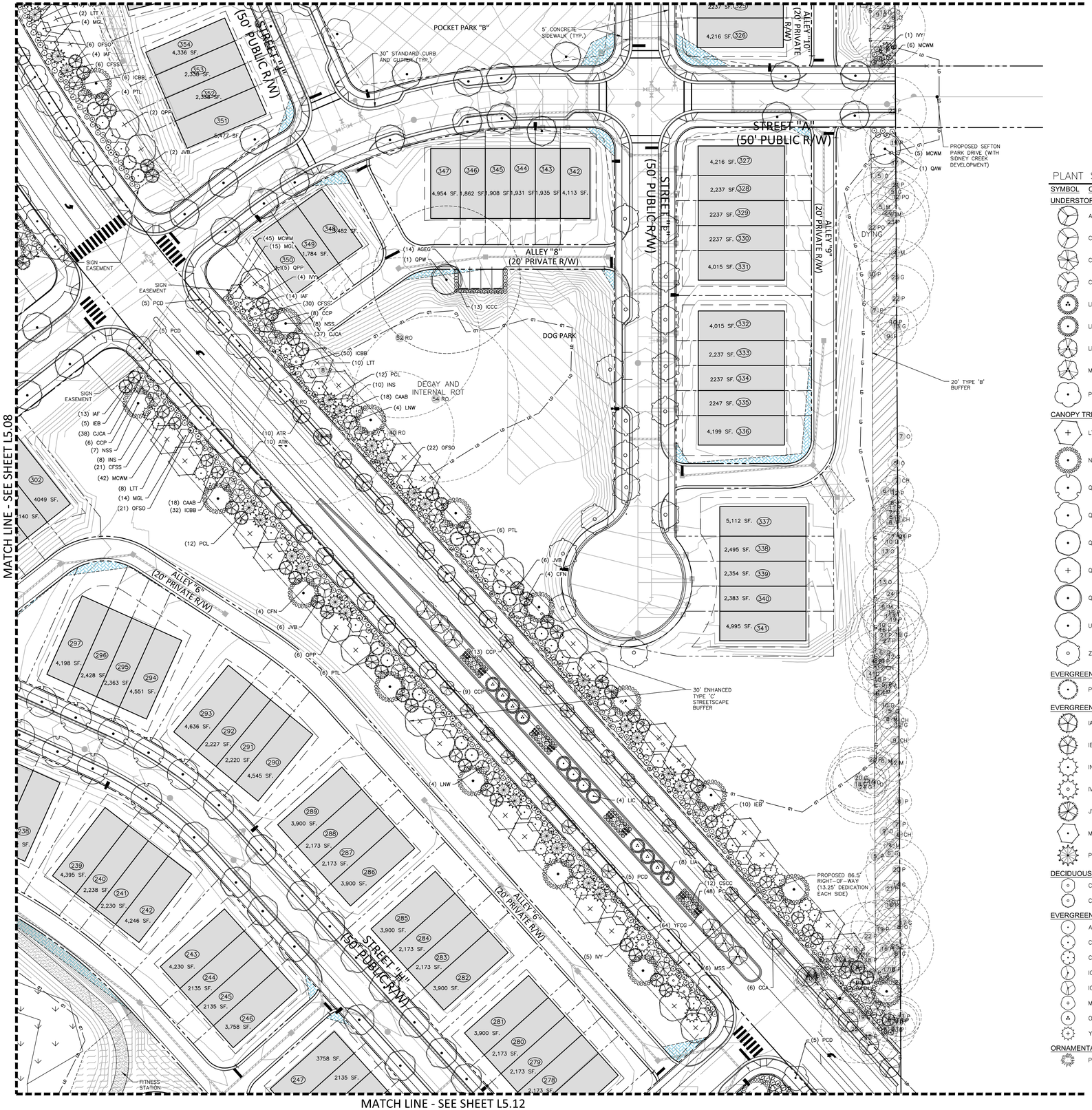
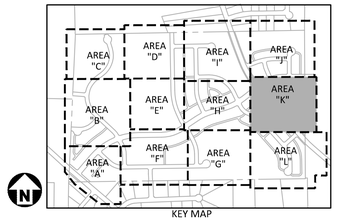
MATCH LINE - SEE SHEET L5.10



MATCH LINE - SEE SHEET L5.12



PLANT SCHEDULE AREA K

SYMBOL	CODE	BOTANICAL NAME
UNDERSTORY TREES		
	ATR	Acer truncatum
	CCA	Carpinus caroliniana
	CCP	Cercis canadensis 'Forest Pansy' TM
	CFN	Cornus florida 'Cloud Nine'
	LIA	Lagerstroemia indica 'Alba'
	LIC	Lagerstroemia indica 'Cherokee'
	LNW	Lagerstroemia x 'Natchez'
	MSS	Magnolia x soulangiana
	PCD	Pistacia chinensis 'Keith Davey'
CANOPY TREES		
	LTT	Liriodendron tulipifera
	NSS	Nyssa sylvatica
	QAW	Quercus alba
	QCS	Quercus coccinea
	QNN	Quercus nuttallii
	QPP	Quercus palustris
	QPW	Quercus phellos
	UAP	Ulmus americana 'Princeton'
	ZSG	Zelkova serrata 'Green Vase'
EVERGREEN TREES		
	PTL	Pinus taeda
EVERGREEN UNDERSTORY TREES		
	IAF	Ilex x attenuata 'Foster No. 2'
	IEB	Ilex x 'Emily Bruner'
	INS	Ilex x 'Nellie R Stevens'
	IVY	Ilex vomitoria
	JVB	Juniperus virginiana 'Brodie'
	MGL	Magnolia grandiflora 'Little Gem'
	PCL	Prunus caroliniana
DECIDUOUS SHRUBS		
	CAAB	Callicarpa americana
	CFSS	Calycanthus floridus
EVERGREEN SHRUBS		
	AGEG	Abelia x grandiflora 'Edward Goucher'
	CJCA	Camellia japonica
	CSCC	Camellia sasanqua
	ICBB	Ilex cornuta 'Burfordii'
	ICCC	Ilex cornuta 'Carissa'
	MCWM	Myrica cerifera
	OFSO	Osmanthus fragrans
	YFCG	Yucca filamentosa 'Color Guard'
ORNAMENTAL GRASSES		
	PC	Panicum virgatum 'Cape Breeze'

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
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- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- EXISTING VEGETATION TO REMAIN

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
- VARIABLE WIDTH SCM ACCESS EASEMENT
- VARIABLE WIDTH RETAINING WALL EASEMENT

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

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CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1640 JULIE G. YOUNG
FOR REVIEW & MARKUP NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

LANDSCAPE PLAN AREA "K"

L5.11

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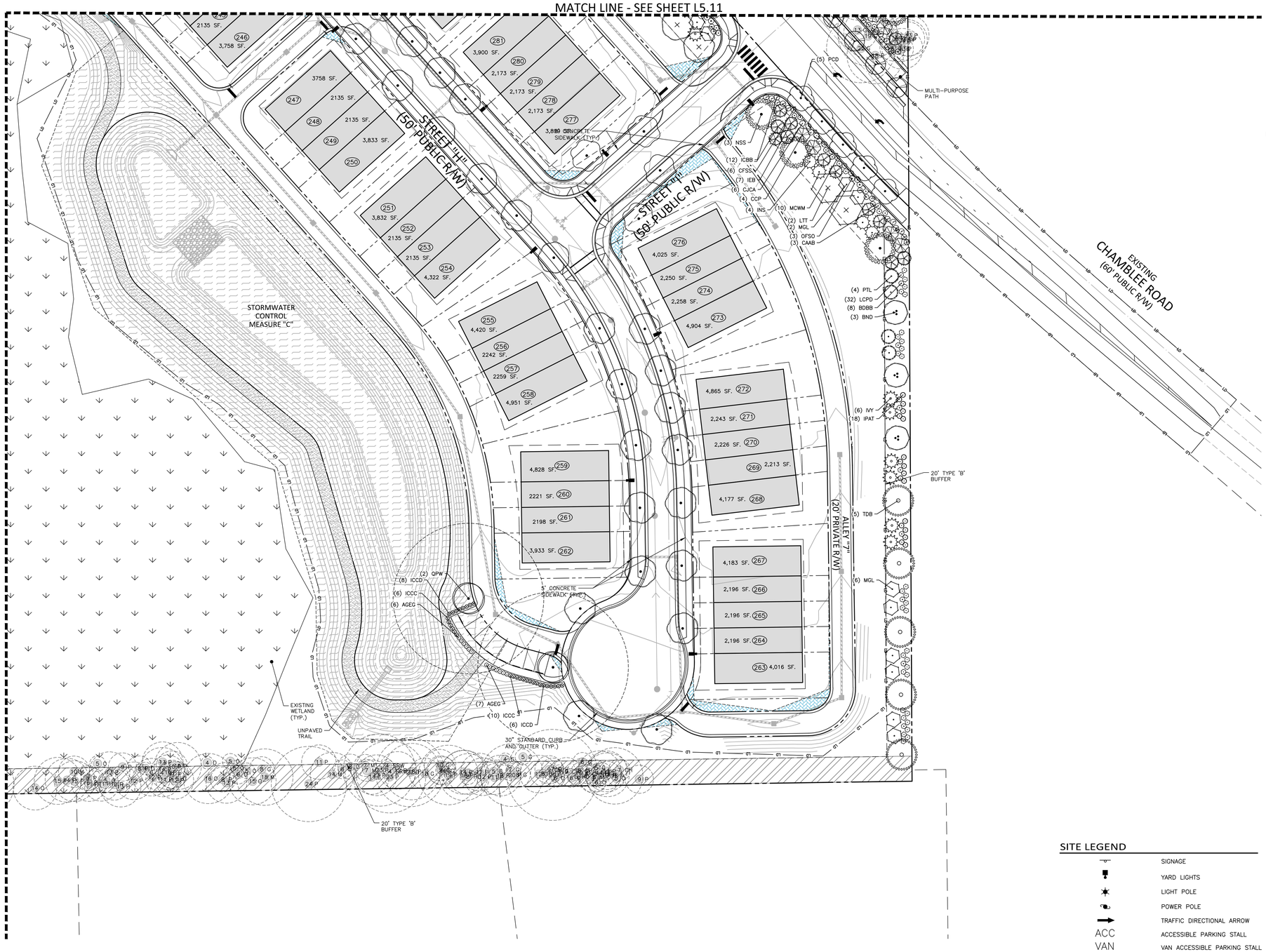

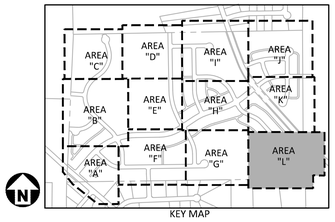

PLANT SCHEDULE AREA L

SYMBOL	CODE	BOTANICAL NAME
UNDERSTORY TREES		
	CCA	Carpinus caroliniana
	CCP	Cercis canadensis 'Forest Pansy' TM
	PCD	Pistacia chinensis 'Keith Davey'
CANOPY TREES		
	BND	Betula nigra 'Duraheat'
	LTT	Liriodendron tulipifera
	NSS	Nyssa sylvatica
	QCS	Quercus coccinea
	QPP	Quercus palustris
	QPW	Quercus phellos
	TDB	Taxodium distichum
	UAP	Ulmus americana 'Princeton'
EVERGREEN TREES		
	PTL	Pinus taeda
EVERGREEN UNDERSTORY TREES		
	IAF	Ilex x attenuata 'Foster No. 2'
	IEB	Ilex x 'Emily Bruner'
	INS	Ilex x 'Nellie R Stevens'
	IVY	Ilex vomitoria
	MGL	Magnolia grandiflora 'Little Gem'
DECIDUOUS SHRUBS		
	BDBB	Buddleja davidii
	CAAB	Callicarpa americana
	CFSS	Calycanthus floridus
EVERGREEN SHRUBS		
	AGEG	Abelia x grandiflora 'Edward Goucher'
	CJCA	Camellia japonica
	ICBB	Ilex cornuta 'Burfordii'
	ICCC	Ilex cornuta 'Carissa'
	ICCD	Ilex crenata 'Compacta'
	IPAT	Illicium parviflorum
	LCPD	Loropetalum chinense 'Purple Diamond'
	MCWM	Myrica cerifera
	OFSO	Osmanthus fragrans

SITE LEGEND

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- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC — ACCESSIBLE PARKING STALL
- VAN — VAN ACCESSIBLE PARKING STALL
- TYPE Ⓐ TYPE Ⓑ TYPE Ⓒ — ACCESSIBLE RAMPS
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
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- EXISTING VEGETATION TO REMAIN

EASEMENT LEGEND

- 20' STORM DRAINAGE EASEMENT
- VARIABLE WIDTH STORM DRAINAGE EASEMENT
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ZEBULON, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1640 JULIE G. YOUNG
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	1"=40'
DATE	02. 26. 2024

SHEET

LANDSCAPE PLAN
AREA "L"

L5.12

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GENERAL LANDSCAPE NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ZEBULON AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR THE SITE INSPECTION BEFORE LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
3. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE BEGINNING DEMOLITION OR INSTALLATION.
4. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES, SPECIFICATIONS, DRAWINGS OR SITE CONDITIONS FOR RESOLUTION PRIOR TO INSTALLATION.
5. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. THIS PLAN IS FOR PLANTING PURPOSES ONLY. FOR INFORMATION REGARDING BUILDINGS, GRADING, WALLS, ETC., REFER TO ARCHITECTURE, SITE AND GRADING PLANS.
7. VERIFICATION OF TOTAL PLANT QUANTITIES AS SHOWN IN THE PLANT SCHEDULE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
8. CONTRACTOR TO ENSURE PROPER STABILIZATION AND SEEDING OF THE SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
9. LANDSCAPE MATERIAL SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM DAMAGE, INSECTS AND DISEASES. MATERIAL SHALL EQUAL OR SURPASS #1 QUALITY AS DEFINED IN THE CURRENT ISSUE OF "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
10. ALL PLANT MATERIAL IS TO BE CAREFULLY HANDLED BY THE ROOT BALL, NOT THE TRUNK, BRANCHES AND/OR FOLIAGE OF THE PLANT. MISHANDLED PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT.
11. ALL PLANT MATERIAL IS TO BE WELL ROOTED, NOT ROOT BOUND, SUCH THAT THE ROOT BALL REMAINS INTACT THROUGHOUT THE PLANTING PROCESS. DEFICIENT PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
12. ALL PLANTS TO BE A MINIMUM OF WHAT IS SPECIFIED IN THE PLANT SCHEDULE. ANY CHANGES OR SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND GOVERNING JURISDICTION PRIOR TO ANY HOLE BEING DUG.
13. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO ESTABLISH THE EXTENTS OF MULCH/SEED/SOD IF NOT SPECIFICALLY SHOWN ON PLANS.
14. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL PLANTING AREAS.
15. PROPOSED TREES TO BE PLANTED A MINIMUM 10 FEET FROM ANY LIGHT POLE AS MEASURED FROM TRUNK OF THE TREE TO THE POLE.
16. PROPOSED TREES TO BE PLANTED A MINIMUM 5 FEET FROM ANY FIRE HYDRANT AS MEASURED FROM TRUNK OF THE TREE TO THE HYDRANT.
17. CONTRACTOR SHALL COMPLETE SOIL TEST IN ALL PLANTING AREAS TO DETERMINE SOIL AMENDMENT REQUIREMENTS UNLESS WAIVED BY OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ADJUST PH AND FERTILITY BASED UPON THE SOIL TEST RESULTS.
18. TOPSOIL SHALL BE FREE OF MATERIAL LARGER THAN 1.0 INCH IN DIAMETER OR LENGTH AND SHALL NOT CONTAIN SLAG, CINDERS, STONES, LUMPS OF SOIL, STICKS, ROOTS, TRASH, OR OTHER EXTRANEOUS MATERIAL.
19. LOOSEN SUBGRADE / SURFACE SOIL TO A MINIMUM DEPTH OF 6 INCHES. APPLY SOIL AMENDMENTS AND FERTILIZERS AS REQUIRED BY THE SOIL TEST RESULTS TO ACHIEVE A HEALTHY GROWING MEDIA AND MIX THOROUGHLY INTO TOP 4 INCHES OF SOIL. SPREAD PLANTING SOIL MIX TO A DEPTH OF 6 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
20. IF IMPORTED TOPSOIL IS REQUIRED, THE SUBGRADE SHALL BE SCARIFIED OR TILLED TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO INSTALLATION OF IMPORTED TOPSOIL. FOLLOWING INSTALLATION OF IMPORTED TOPSOIL, THE TOPSOIL SHALL BE TILLED TO INTEGRATE THE SOIL PROFILES.
21. PLANT MATERIALS ARE TO BE GUARANTEED FOR A PERIOD OF 12 MONTHS. PLANT MATERIALS WHICH REMAIN UNHEALTHY WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR BEFORE THE EXPIRATION OF THE GUARANTEE PERIOD OR IMMEDIATELY IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
22. ALL TREE PLANTINGS SHALL BE MULCHED TO A DEPTH OF 3 INCHES, AND WITH A MINIMUM 3 FOOT RADIUS FROM BASE OF TREE OR TO DRIPLINE. MULCH SHALL BE FREE OF TRASH AND MAINTAINED WEED FREE. MULCH SHALL NOT COVER THE ROOT FLARE. CONFIRM MULCH SPECIFICATIONS WITH OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
23. DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING OF EXTERIOR PLANTS DURING DELIVERY. DO NOT DROP EXTERIOR PLANTS DURING DELIVERY AND HANDLING.
24. DELIVER EXTERIOR PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND INSTALL IMMEDIATELY. IMMEDIATELY AFTER UNLOADING, STAND THE TREES UP TO REDUCE THE RISK OF SUN SCALD. PROPERLY STAGED TREES ARE STANDING, UNTIED AND SPACED. UNLESS IMMEDIATELY INSTALLED, SET EXTERIOR PLANTS AND TREES IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
25. SEE LANDSCAPE DETAILS FOR TREE STAKING REQUIREMENTS.
26. EXCAVATE EDGES OF ALL PLANTING BEDS TO 2 INCH DEPTH TO FORM A NEAT AND CRISP DEFINITION.
27. CONTRACTOR SHALL REMOVE DEBRIS AND FINE GRADE ALL PLANTING AREAS PRIOR TO INSTALLATION.
28. REMOVE GUY WIRES AND STAKES AT END OF WARRANTY PERIOD OR ESTABLISHMENT.
29. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISHED GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.
30. STRUCTURAL SOILS REQUIRED FOR LANDSCAPE ISLANDS AND STRIPS LOCATED IN PARKING AREAS PER SECION 5.6.9.B.7 OF THE ZEBULON UDO.

WARRANTY & MAINTENANCE:

1. WARRANTY: INSTALLER SHALL REPAIR OR REPLACE ANY PLANTINGS THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   - DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLECT, ABUSE BY OWNER, OR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
   - STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
2. MAINTENANCE: INITIAL MAINTENANCE SHALL BE PROVIDED IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL SUBSTANTIAL COMPLETION. UPON SUBSTANTIAL COMPLETION, MAINTENANCE FOR ALL PLANT MATERIAL SHALL BE PROVIDED FOR ONE YEAR AT A MINIMUM SHALL INCLUDE:
   - TREE AND SHRUB MAINTENANCE: MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.
   - GROUND COVER AND PLANT MAINTENANCE: MAINTAIN AND ESTABLISH PLANTINGS BY WATERING, WEEDING, FERTILIZING, MULCHING, AND OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS.
   - PROTECT EXTERIOR PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES, AND OTHERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED PLANTINGS.

LANDSCAPE CALCULATIONS

STREET TREES

STREET NAME A — 5423 LF
TREES
REQUIRED: 109 (1/50 LF)
PROVIDED: 109

STREET NAME B — 3625 LF
TREES
REQUIRED: 73 (1/50 LF)
PROVIDED: 73

STREET NAME C — 2716 LF
TREES
REQUIRED: 55 (1/50 LF)
PROVIDED: 55

STREET NAME D — 284 LF
TREES
REQUIRED: 6 (1/50 LF)
PROVIDED: 6

STREET NAME E — 3261 LF
TREES
REQUIRED: 66 (1/50 LF)
PROVIDED: 66

STREET NAME F — 989 LF
TREES
REQUIRED: 20 (1/50 LF)
PROVIDED: 20

STREET NAME G — 1564 LF
TREES
REQUIRED: 32 (1/50 LF)
PROVIDED: 32

STREET NAME H — 3278 LF
TREES
REQUIRED: 66 (1/50 LF)
PROVIDED: 68

STREET NAME I — 175 LF
TREES
REQUIRED: 4 (1/50 LF)
PROVIDED: 4

STREET NAME J — 350 LF
TREES
REQUIRED: 7 (1/50 LF)
PROVIDED: 7

STREET NAME K — 866 LF
TREES
REQUIRED: 18 (1/50 LF)
PROVIDED: 18

STREET NAME L — 1405 LF
TREES
REQUIRED: 29 (1/50 LF)
PROVIDED: 29

STREET NAME M — 758 LF
TREES
REQUIRED: 15 (1/50 LF)
PROVIDED: 15

STREET NAME N — 200 LF
TREES
REQUIRED: 4 (1/50 LF)
PROVIDED: 4

CHAMBLEE ROAD** — 3125 LF
TREES
REQUIRED: 125 (1/25 LF)
PROVIDED: 125

**NOTE: STREET TREES ON CHAMBLEE ROAD ARE LOCATED WITHIN NCDOT RIGHT-OF-WAY AND SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS AND CLEAR ZONE REQUIRMENTS. ALL PLANTINGS IN MEDIAN ARE SUBJECT TO REVIEW AND APPROVAL BY NCDOT.

VEHICLE USE AREAS:

VISITOR PARKING AREAS: 48 TOTAL SPACES

CANOPY TREES:
REQUIRED: = 4 [1 CANOPY TREE PER 12 SPACES]
PROVIDED: = 10

SHRUBS:
PROVIDED: = SINGLE CONTINUOUS ROW OF EVERGREEN SHRUBS

SOIL:
REQUIRED: = 1,000 CUBIC FEET OF SOIL PER TREE FOR EVERY LANDSCAPE ISLAND WITH PROPERLY-PREPARED STRUCTURAL SOIL FOR ALL LANDSCAPE ISLANDS AND STRIPS

MEDIAN PLANTING:

MEDIANS WILL BE PLANTED WITH THE FOLLOWING STANDARD:

4 UNDERSTORY TREE AND 15 SHRUBS PER 100 LINEAR FEET.

NOTE: ALL PLANTINGS IN MEDIAN ARE SUBJECT TO REVIEW AND APPROVAL BY NCDOT.

CHAMBLEE ROAD — 869 LF
UNDERSTORY TREES
REQUIRED: 35 (4/100 LF)
PROVIDED: 36
SHRUBS
REQUIRED: 131 (15/100 LF)
PROVIDED: 152

PLANT SCHEDULE OVERALL

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CAL	HEIGHT	REMARKS
UNDERSTORY TREES							
	ATR	41	Acer truncatum	Shantung Maple	1.5" min	4' min	
	CCA	18	Carpinus caroliniana	American Hornbeam	1.5" min	4' min	
	CCP	65	Cercis canadensis 'Forest Pansy' TM	Forest Pansy Redbud	1.5" min	4' min	
	CFN	16	Cornus florida 'Cloud Nine'	Cloud Nine Eastern Dogwood	1.5" min	4' min	
	LIA	12	Lagerstroemia indica 'Alba'	White Crape Myrtle	1.5" min	4' min	
	LIC	12	Lagerstroemia indica 'Cherokee'	Cherokee Crape Myrtle	1.5" min	4' min	
	LNW	15	Lagerstroemia x 'Natchez'	White Crape Myrtle Multi-Trunk	1.5" min	4' min	MULTI-STEMMED 3 STEM MIN
	MSS	12	Magnolia x soulangiana	Saucer Magnolia	1.5" min	4' min	MULTI-STEMMED 3 STEM MIN
	PCD	30	Pistacia chinensis 'Keith Davey'	Keith Davey Chinese Pistache	1.5" min	4' min	
		221	SUBTOTAL:				
CANOPY TREES							
	ARO	74	Acer rubrum 'October Glory' TM	October Glory Maple	2.5"	8' min	
	BND	18	Betula nigra 'Duraheat'	Duraheat River Birch	–	8' min	MULTI- STEMMED 3 STEM MIN
	LTT	38	Liriodendron tulipifera	Tulip Tree	2.5"	8' min	
	NSS	37	Nyssa sylvatica	Sour Gum	2.5"	8' min	
	QAW	65	Quercus alba	White Oak	2.5"	8' min	
	QCS	63	Quercus coccinea	Scarlet Oak	2.5"	8' min	
	QLO	28	Quercus lyrata	Overcup Oak	2.5"	8' min	
	QNN	122	Quercus nuttallii	Nuttall Oak	2.5"	8' min	
	QPP	23	Quercus palustris	Pin Oak	2.5"	8' min	
	QPW	14	Quercus phellos	Willow Oak	2.5"	8' min	
	TDB	43	Taxodium distichum	Bald Cypress	2.5"	8' min	
	UAP	61	Ulmus americana 'Princeton'	American Elm	2.5"	8' min	
	UPC	107	Ulmus parvifolia	Chinese Elm	2.5"	8' min	
	ZSG	16	Zelkova serrata 'Green Vase'	Sawleaf Zelkova	2.5"	8' min	
		709	SUBTOTAL:				
EVERGREEN TREES							
	PTL	80	Pinus taeda	Loblolly Pine	–	8' min	
		80	SUBTOTAL:				
EVERGREEN UNDERSTORY TREES							
	IAF	92	Ilex x attenuata 'Foster No. 2'	Foster No. 2 Holly	–	4' min	
	IEB	34	Ilex x 'Emily Bruner'	Emily Bruner Holly	–	4' min	
	INS	46	Ilex x 'Nellie R Stevens'	Nellie Stevens Holly	–	4' min	
	IVY	58	Ilex vomitoria	Yaupon Holly	–	4' min	
	JVB	29	Juniperus virginiana 'Brodie'	Brodie Columnar Cedar	–	4' min	
	MGL	110	Magnolia grandiflora 'Little Gem'	Dwarf Southern Magnolia	–	4' min	
	PCL	46	Prunus caroliniana	Carolina Laurel Cherry	–	4' min	
		415	SUBTOTAL:				

PLANT SCHEDULE OVERALL

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	REMARKS
DECIDUOUS SHRUBS							
	BDBB	75	Buddleja davidii	Butterfly Bush	–	18"	
	CAAB	86	Callicarpa americana	American Beautyberry	–	18"	
	CFSS	114	Calycanthus floridus	Sweet Shrub	–	18"	
		275	SUBTOTAL:				
EVERGREEN SHRUBS							
	AGEG	93	Abelia x grandiflora 'Edward Goucher'	Glossy Abelia	–	18"	
	CJCA	178	Camellia japonica	Camellia	–	18"	
	CSCC	36	Camellia sasanqua	Christmas Camellia	–	18"	
	ICBB	160	Ilex cornuta 'Burfordii'	Burford Chinese Holly	–	18"	
	ICCC	55	Ilex cornuta 'Carissa'	Carissa Holly	–	18"	
	ICCD	111	Ilex crenata 'Compacta'	Dwarf Japanese Holly	–	18"	
	IPAT	122	Illicium parviflorum	Anise Tree	–	18"	
	JCPP	147	Juniperus chinensis 'Pfitzeriana'	Pfitzer Juniper	–	18"	
	LCPD	241	Loropetalum chinense 'Purple Diamond'	Fringe Flower	–	18"	
	MCWM	208	Myrica cerifera	Wax Myrtle	–	18"	
	OFSO	124	Osmanthus fragrans	Sweet Olive	–	18"	
	YFCG	128	Yucca filamentosa 'Color Guard'	Color Guard Adam's Needle	–	10" min	
		1,603	SUBTOTAL:				
ORNAMENTAL GRASSES							
	PC	96	Panicum virgatum 'Cape Breeze'	Cape Breeze Switch Grass	1 gal		
		96	SUBTOTAL:				

BUFFER REPLANTING

NORTHERN BUFFER — 1290 LF DISTRUBED
20' TYPE B BUFFER
CANOPY TREES
REQUIRED: 26 (2/100 LF)
PROVIDED: 26
UNDERSTORY TREES
REQUIRED: 52 (4/100 LF)
PROVIDED: 52
SHRUBS
REQUIRED: 194 (15/100 LF)
PROVIDED: 194

EASTERN BUFFER — 667 LF DISTRUBED
20' TYPE B BUFFER
CANOPY TREES
REQUIRED: 14 (2/100 LF)
PROVIDED: 14
UNDERSTORY TREES
REQUIRED: 27 (4/100 LF)
PROVIDED: 27
SHRUBS
REQUIRED: 100 (15/100 LF)
PROVIDED: 100

SOUTHERN BUFFER — 1342 LF DISTRUBED
20' TYPE B BUFFER
CANOPY TREES
REQUIRED: 27 (2/100 LF)
PROVIDED: 27
UNDERSTORY TREES
REQUIRED: 54 (4/100 LF)
PROVIDED: 54
SHRUBS
REQUIRED: 202 (15/100 LF)
PROVIDED: 202
6' TALL PRIVACY FENCE: 1,342 LF *

* PER PLANNED DEVELOPMENT DOCUMENT, A 6' TALL PRIVACY FENCE IS REQUIRED AT ANY PLANTED TYPE B BUFFER ALONG THE PROPERTY'S SHARED BOUNDARY WITH ANY LOT FRONTING PERRY RIDGE CT OR RIDGE VALLEY WAY. WHERE EXISTING VEGETATION IS RETAINED WHICH SATISFIES THE REQUIREMENTS OF A TYPE B BUFFER, NO PRIVACY FENCE SHALL BE REQUIRED.

WESTERN BUFFER — 933 LF DISTRUBED
20' TYPE B BUFFER
CANOPY TREES
REQUIRED: 19 (2/100 LF)
PROVIDED: 15
UNDERSTORY TREES
REQUIRED: 38 (4/100 LF)
PROVIDED: 28
SHRUBS
REQUIRED: 140 (15/100 LF)
PROVIDED: 107

STREETSCAPE BUFFER (PERRY CURTIS) — 232 LF
30' TYPE C BUFFER
CANOPY TREES
REQUIRED: 7 (3/100 LF)
PROVIDED: 7
UNDERSTORY TREES
REQUIRED: 14 (6/100 LF)
PROVIDED: 14
SHRUBS
REQUIRED: 47 (20/100 LF)
PROVIDED: 47

STREETSCAPE BUFFER (CHAMBLEE RD) — 3066 LF
30' TYPE C ENHANCED BUFFER
CANOPY TREES
REQUIRED: 92 (3/100 LF)
PROVIDED: 92
UNDERSTORY TREES (MIN. 4 EVERGREEN))
REQUIRED: 368 (12/100 LF)
PROVIDED: 368
SHRUBS
REQUIRED: 767 (25/100 LF)
PROVIDED: 767

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
By: _____ Date: _____
Town Engineer
These plans are approved by the Town of Zebulon and serve as construction plans for this project.
By: _____ Date: _____
Administrator

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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D.R. HORTON, INC.
7208 FALLS OF NEUSE ROAD, SUITE 201
RALEIGH, NC 27615
PHONE: 919. 809. 4207

D·R·HORTON America's Builder

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL LANDSCAPE ARCHITECT SEAL 1640 JULIE G. YOUNG
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	AS NOTED
DATE	02. 26. 2024

SHEET

LANDSCAPE NOTES & SCHEDULES

L5.13

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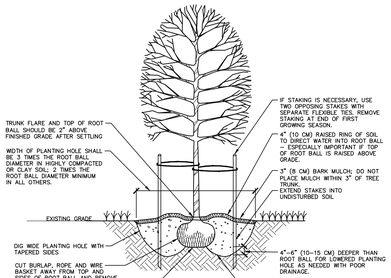
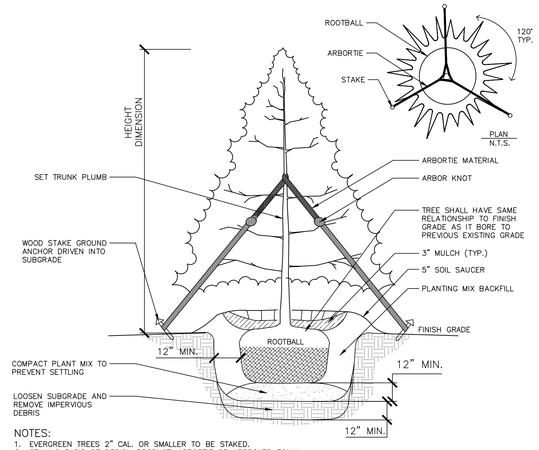


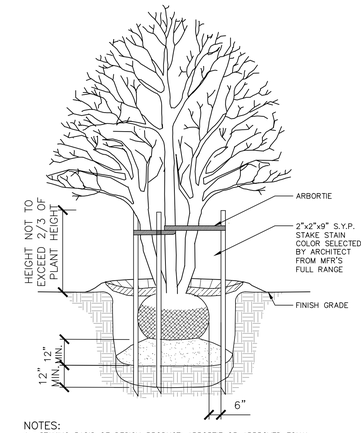
NOTES:
1. SELECT TREES THAT HAVE: STRONG CENTRAL LEADER; CROWN WITH FULL FOLIAGE; ARE GROWN IN HEAVY CLAY SOIL WITH DRIP IRRIGATION.
2. BEFORE INSTALLING PLANTING SOIL MIX BACKFILL AROUND ROOT BALL, BE SURE TO SOAK HOLE TO CONFIRM WATER FILTERS THROUGH UNDISTURBED SOIL. DESIGN ALTERNATE DRAINAGE SYSTEM IF REQUIRED.
3. IF NECESSARY, EXPORT SOIL TO BE AMELIORATED TO HELP MODIFY AND FERTILIZE TOPSOIL TO CREATE AN ACCEPTABLE PLANTING SOIL MIX FOR THE SITE CONDITIONS AND SPECIFIC TREE SPECIES.
4. IF USING CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL. THEN CUT OR PULL APART ROOTS SURROUNDING THE PERIMETER OF THE CONTAINER.
5. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND DURING DRY PERIODS.

01 TREE INSTALLATION
SCALE: 3/8"=1'-0"



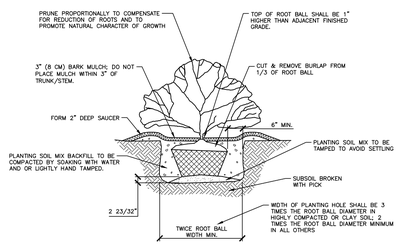
NOTES:
1. EVERGREEN TREES 2" CAL. OR SMALLER TO BE STAKED.
2. STAKING BASIS OF DESIGN PRODUCT: ARBORTIE OR APPROVED EQUAL.
3. STAKING TO BE REMOVED AFTER 2 GROWING SEASONS PER MANUFACTURER'S SPECIFICATIONS.
4. PROVIDE WATER CRYSTALS PER MANUFACTURER'S RECOMMENDATIONS FOR PINE TREES.

02 EVERGREEN TREE INSTALLATION
SCALE: 3/8"=1'-0"

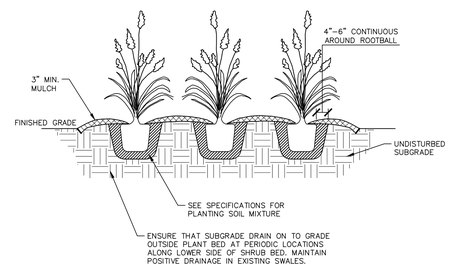


NOTES:
1. STAKING BASIS OF DESIGN PRODUCT: ARBORTIE OR APPROVED EQUAL.
2. STAKING FOR TREES 2" CAL. EA. TRUNK OR SMALLER.
3. REMOVE TREE STAKING AFTER 2 GROWING SEASONS PER MANUFACTURER'S SPECIFICATIONS.

03 MULTI-TRUNK TREE INSTALLATION
SCALE: 3/8"=1'-0"



04 SHRUB INSTALLATION
SCALE: 3/8"=1'-0"



05 ORNAMENTAL GRASS PLANTING
SCALE: 1/2"=1'-0"

BUILDING LANDSCAPE REQUIREMENTS:

TOWNHOMES
1 TREE (UNDERSTORY OR CANOPY) OR 2 ORNAMENTAL TREES PER LOT

TO AVOID UTILITY AND DRIVEWAY CONFLICTS WITHIN TOWNHOME AREAS, REQUIRED RESIDENTIAL SITE LANDSCAPING MAY BE LOCATED EITHER ON THE TOWNHOME LOT ITSELF OR WITHIN NEARBY HOA OWNED COMMON AREAS

SINGLE FAMILY - FRONT LOADED
1 CANOPY TREE AND 1 UNDERSTORY TREE

SINGLE FAMILY - REAR LOADED
2 UNDERSTORY TREES

FOUNDATION PLANTINGS
ALL RESIDENTIAL LOTS SHALL HAVE APPROPRIATE SHRUBS LOCATED WITHIN 10' OF THE BUILDING FOUNDATION WHICH IS VISIBLE FROM THE STREET, IN ACCORDANCE WITH SECTION 5.6.11.D.1 OF THE UDO

PREFFERED PLANT SPECIES FOR RESIDENTIAL

LARGE DECIDUOUS TREE SPECIES
(INSTALLED AT 2.5" CAL.)

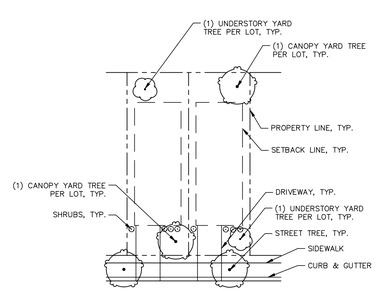
ACER BUERGERANUM – TRIDENT MAPLE
NYSSA SYLVATICA 'GREEN GABLE' – BLACK GUM
QUERCUS ALBA – WHITE OAK
QUERCUS LYRATA – OVERCUP OAK
QUERCUS NIGRA – WATER OAK
QUERCUS PHELLOS – WILLOW OAK
ULMUS PARVIFOLIA – LACEBARK ELM

SMALL EVERGREEN TREE SPECIES
(INSTALLED AT 5–6' HT)

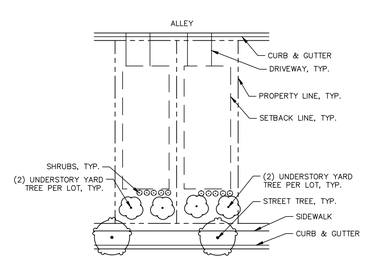
ILEX X 'EMILY BRUNER' – EMILY BRUNER HOLLY
ILEX X 'NELLIE R STEVENS' – NELLIE STEVENS HOLLY
ILEX X ATTENUATA 'FOSTERI' – FOSTER HOLLY
ILEX VOMITORIA – YAUPON HOLLY
JUNIPERUS CHINENSIS 'SPARTAN' – SPARTAN JUNIPER
VIBURNUM AWABUKI 'CHINDO' – CHINDO VIBURNUM

SMALL SHRUB SPECIES
(INSTALLED AT 18" HT. MIN.)

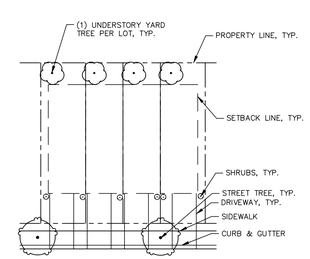
ABELIA X GRANDIFLORA – ABELIA CULTIVARS
BUXUS SP. – BOXWOOD SPECIES
ILEX SP. – HOLLY SPECIES (CARISSA, GLABRA, YAUPON, ETC.)
PRUNUS LAUROCERASUS SPP. – ENGLISH LAUREL CULTIVARS
RHAPHIOLEPSIS SPP. – INDIAN HAWTHORN CULTIVARS



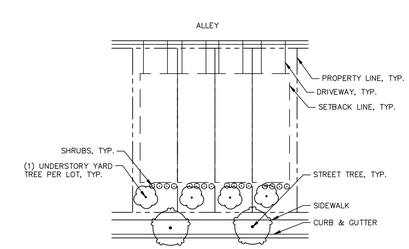
TYPICAL BUILDING LANDSCAPING
SINGLE FAMILY - FRONT LOADED



TYPICAL BUILDING LANDSCAPING
SINGLE FAMILY - REAR LOADED



TYPICAL BUILDING LANDSCAPING
TOWNHOME - FRONT LOADED



TYPICAL BUILDING LANDSCAPING
TOWNHOME - REAR LOADED

Town Certification. This design has been reviewed by the Engineer for the Town of Zebulon, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Zebulon.
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D·R·HORTON America's Builder

CHAMBLEE LAKE
CONSTRUCTION DRAWINGS
1509 CHAMBLEE ROAD
ZEBULON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL LANDSCAPE ARCHITECT 1640 JULIE G. YOUNG
PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS
NO. DATE

PLAN INFORMATION

PROJECT NO.	DRH22004
FILENAME	DRH22004-S1
CHECKED BY	JGY
DRAWN BY	SMA
SCALE	AS NOTED
DATE	02. 26. 2024

SHEET
LANDSCAPE DETAILS

L5.14

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