Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-15S

DESIGNED BY:	SSM
DRAWN BY:	SSM
CHECKED BY:	HMH
APPROVED BY:	MAP
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE: (919)707-6690
FAX: (919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 HEATHER HARKENRIDER 8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION SEWER ONLY

5/14/99

MATCHLINE SEE INSET C

MATCHLINE SHEET UC-14 –L– STA. 170+00.00

MATCHLINE SHEET UC-16 –L– STA. 184+00.00

NAD 83/2011 (NSRS2011 M.E.)

SR 1385 (UNIVERSITY AVE)

SR 1003 (CAMDEN ROAD)

SR 1003 (CAMDEN RD)

SR 1282 (DORIAN RD)

SR 3360 FOOTBRIDGE LN (FOOTBRIDGE LN)

SR 3638 (UNIVERSITY AVE)

(DUKE ST)

TOWN LIMIT OF HOPE MILLS

JANICE C. TERRY
DB 2006 PG 511
DB 1193 PG 529

DWIGHT DAVIS
DB 8936 PG 412

CHARLES T. GARDNER, ET UX
DB 6499 PG 317
PB 7 PG 78

HELEN E. HOLDER, ET VIR
DB 8470 PG 156
PB 7 PG 78

EMMA I. BRYAN
DB 9607 PG 633
PB 24 PG 71

SPRINGS PROPERTY MANAGEMENT, LLC.
DB 10734 PG 511
PB 24 PG 71

LELAND J. MOREL, ET UX
DB 6273 PG 126
PB 24 PG 71

ARTHUR J. LASELLE, JR. ET UX
DB 5679 PG 474
PB 28 PG 21

WALTERS, JAMES R; WALTERS, GILMORE, ROSEMARY W / GILMORE, R
DB 10296 PG 848

LOURDES BELTRE
DB 10241PG 643
PB 28 PG 21

THOMAS DUDLEY, ET UX
DB 10338 PG 810

SONTERIOS ELIAS FRANGOS
DB 9106 PG 891
PB 17 PG 2

EL TIO INVESTMENTS, LLC
DB 8689 PG 571
PB 129 PG 161

WHETSTONE PARTNERS, LLC
DB 8319 PG 629
PB 125 PG 194

DAVID F. FERRUZZI
DB 4479 PG 643
PB 17 PG 4

KACEY PARK SHUPE
DB 5325 PG 868
PB 17 PG 4

KAREN SIMMONS
DB 8675 PG 220
PG 4

JANET K. WILLIAMS
DB 8679 PG 218
PB 17 PG 4

40'X20' BORE PIT

4' DIA UTILITY MANHOLE SSMH-11

PROP. 99 LF OF 8" DI SEWER MAIN

RETAIN EXIST SEPTIC SYSTEM

SEPTIC TANK EXISTS

PROP. 108 LF OF 12" DI SANITARY GRAVITY SEWER

40'X20' BORE PIT

CLASS 'I' RIP RAP EST. 15 TONS, 30 SY GEO TEXT

4' DIA UTILITY MANHOLE (SSMH-51)

PROP. 56 LF OF 8" DI SANITARY GRAVITY SEWER
30 LF JACK AND BORE
45 LF 16" ENCASEMENT

SS-3

SS-6

RETAIN EXIST SS SYSTEM

ADJUSTMENT OF MANHOLE (SS)

ADJUSTMENT OF MANHOLE (SS)

RETAIN EXIST SS SYSTEM

PROP. 80 LF OF 16" ENCASEMENT PIPE AND 42 LF BORE AND JACK OF 16" ENCASEMENT

4' DIA UTILITY MANHOLE SSMH-10

20'X20' RECEIVING PIT

ADJUSTMENT OF MANHOLE (SS)

PT 4' DIA UTILITY MANHOLE (SSMH-52)

PROP. 20 LF OF SEWER
4" DI SERVICE LINE

SANITARY SEWER CLEANOUT

20'X20' RECEIVING PIT

INSET C

MATCHLINE

MARVIN R. TERRY, ET UX
DB 4157 PG 704

MARTA C. BULLARD
DB 5250 PG 866

B&T LAND DEVELOPMENT LLC
DB 7585 PG 224
PB 119 PG 185

SEE SHEET UC-30 FOR -WL1- PROFILE
SEE SHEET UC-35 FOR -WL3- PROFILE
SEE SHEET UC-40 FOR -WL19- PROFILE
SEE SHEET UC-42 FOR -SS3- PROFILE
SEE SHEET UC-43 FOR -SS-6- PROFILE

50' 25' 0' 50' 100'
PLANS

SYSTIME
USER:HARKENRIDER
PLOTDATE:8/29/2025 11:26:01 AM
FILE:I:\DOT\U-3422B\Roadway\Plans\U-3422B_UC15S_psh.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/14/99

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-16W
DESIGNED BY: SSM	
DRAWN BY: SSM	
CHECKED BY: HMH	
APPROVED BY: MAP	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA — Digitally signed by Heather Harkenrider — SEAL 035021 — ENGINEER — HEATHER HARKENRIDER — 5/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION WATER ONLY

NAD 83/2011

MATCHLINE SHEET UC-15 -L- STA. 184+00.00

MATCHLINE SHEET UC-17 -L- STA. 198+00.00

TOWN LIMIT OF HOPE MILLS

PROP. 1" WATER METER AND 4 LF OF WATER SERVICE LINE

PROP. FIRE HYDRANT 10 LF OF FIRE HYDRANT LEG 6" VALVE 16"x6" TEE

PROP. 1" WATER METER 4 LF OF WATER SERVICE LINE

PROP. 1" WATER METER 4 LF OF WATER SERVICE LINE

PROP. 1,404 LF OF 16" DI WATER LINE WL-1

PROP. 1" WATER METER AND 4 LF OF WATER SERVICE LINE

TIE TO EXIST. 6" DI RJ WATER LINE W/ RESTRAINING GLANDS -L- STA. 192+02.64 (77.76' LT)

W/ LONG PATTERN SOLID SLEEVE

45° BEND (HORZ.)

PROP. 4-1" WATER METER 57 LF OF WATER SERVICE LINE PROP. 4-1" RPZ BACKFLOW PREVENTION ASSEMBLY

PROP. 1" WATER METER AND 4 LF OF WATER SERVICE LINE

PROP. 43 LF OF 6" DI WATER LINE 16"x6" TEE

45° BEND (HORZ.)

PROP. 6" WATER METER 11 LF OF 6" WATER SERVICE LINE PROP. 6" DCV BACKFLOW ASSEMBLY 6" VALVE

16"x6" TEE

ABANDON 176 LF OF 16" UTILITY PIPE

PROP. 1" WATER METER AND 5 LF OF WATER SERVICE LINE

11.25° BEND (HORZ.)

PROP. 1" WATER METER 5 LF OF WATER SERVICE LINE

11.25° BEND (HORZ.)

PROP. FIRE HYDRANT 10 LF OF FIRE HYDRANT LEG 6" VALVE

16"x6" TEE

6" VALVE

-WL21- STA. 10+38.30 TIE TO EXIST. 8" DI RJ WATER LINE W/ RESTRAINING GLANDS -L- STA. 197+93.11 (89.03' LT)

W/ LONG PATTERN SOLID SLEEVE

22.5° BEND (HORZ.)

PROP. 40 LF OF 8" DI WATER LINE WL-21

22.5° BEND (HORZ.)

45° BEND (HORZ.)

8" VALVE

16"x8" TEE

16" VALVE

PROP. 1" WATER METER 4 LF OF WATER SERVICE LINE

ABANDON 1,399 LF OF 12" UTILITY PIPE

PROP. 1" WATER METER 4 LF OF WATER SERVICE LINE

PROP. 1" WATER METER 4 LF OF WATER SERVICE LINE

PROP. FIRE HYDRANT 10 LF OF FIRE HYDRANT LEG PROP. 6" VALVE 8"x6" TEE

PROP. 1" WATER METER 4 LF OF WATER SERVICE LINE

PROP. 1,401 LF OF 8" DI WATER LINE WL-3

PROP. 1" WATER METER 4 LF OF WATER SERVICE LINE

REMOVE FIRE HYDRANT

PROP. 1" WATER METER 4 LF OF WATER SERVICE LINE

22.5° BEND (HORZ.)

PROP. FIRE HYDRANT 13 LF OF FIRE HYDRANT LEG 6" VALVE

8"x6" TEE

22.5° BEND (HORZ.)

ABANDON 48 LF OF 6" UTILITY PIPE

-WL20- STA. 10+26.54 TIE-IN TO EXIST. 6" DI RJ WATER LINE W/ RESTRAINING GLANDS -L- STA. 193+58.17 (88.91' RT) W/ LONG PATTERN SOLID SLEEVE

8" VALVE

11.25° BEND (HORZ.)

8"x6" TEE

45° BEND (HORZ.)

6" VALVE

45° BEND (HORZ.)

PROP. 28 LF OF 6" WATER LINE WL-20

2-11.25° BEND (HORZ.)

REMOVE FIRE HYDRANT

EXISTING ABANDONED WATER LINE PER GIS

2-11.25° BEND (HORZ.)

ABANDON 44 LF OF 8" UTILITY PIPE

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 5,325 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-29 - UC-31 FOR -WL1- PROFILE
SEE SHEET UC-34 - UC-36 FOR -WL3- PROFILE
SEE SHEET UC-40 FOR -WL20- PROFILE
SEE SHEET UC-40 FOR -WL21- PROFILE
SEE SHEET UC-41 FOR -SS-2- PROFILE
SEE SHEET UC-43 FOR -SS-6- PROFILE

NOTES: ADJUST ALL VALVES, PLUG VALVES, AND COMBINATION AIR VALVES TO FILL

NOTES: 16" WATER LINE, PROPOSED STORM, AND PROPOSED POWER POLES MAYBE WITHIN TYPICAL MINIMUM SEPERATION DISTANCE, BE AWARE FOR CONSTRUCTION STAGING.

50' 25' 0' 50' 100'
PLANS

SYSTEM
ISER:MAPPER(26)
U-3422B_rd16_UC16W_psh.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/14/99

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-16S
DESIGNED BY: SSM	
DRAWN BY: SSM	
CHECKED BY: HMH	
APPROVED BY: MAP	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151	

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 HEATHER HARKENRIDER
Heather Harkenrider
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION SEWER ONLY

NAD 83/2011

MATCHLINE SHEET UC-15 -L- STA. 184+00.00

MATCHLINE SHEET UC-17 -L- STA. 198+00.00

TOWN LIMIT OF HOPE MILLS

NDA A BRADFORD, DB 9885 PG 240 PB 17 PG 2

188 WATUS H. PARKER DB 2296 PG 517 PB 17 PG 2

209 MARY L. FOWLER, LIFE ESTATE DB 6482 PG 411 PB 17 PG 2

210 SOTOS INVESTMENTS, LLC. DB 11300 PG 821 PB 17 PG 2

211 SOTOS INVESTMENTS, LLC. DB 11300 PG 821 PB 17 PG 2

212 PATRICIA C. GAINEY DB 11249 PG 889

213 ALTON ALVA HARTNESS DB 3368 PG 36 PB 17 PG 2

283 BLEDSOE, KIMBERLY F;ROSS, SABRINA F; RUSSELL, SHANNON FOWLER;FOWLER, JASON R DB 13E PG 266 PB 120 PG 141

214 HAROLD KIDD, ET UX DB 3755 PG 477

215 JFC, LLC DB 8536 PG 885 PB 120 PG 141

216 JUAN MACIAS DB 3952 PG 869 PB 71 PG 7

217 RIDDLES III, INC. DB 7432, PG 212 106 PG 117

195 JANET K. WILLIAMS DB 9058 PG 524 PB 17 PG 4

196 PHILLIP NORWOOD SMITH DB 4853 PG 944 PB 17 PG 4

JERRY LEON EDGE / TARHEEL BUILDERS DB 3615 PG 537 DB 11498 PG 392 PB 17 PG 5

199 RUTH A. LIND DB 4128 PG 709 PB 17 PG 4

200 WILLIAM R. WESTBROOK III, ET UX DB 7140 PG 770 PB 87 PG 15

201 WILLIAM R. WESTBROOK III, ET UX DB 7140 PG 770 PB 87 PG 15

176 JANET K. WILLIAMS DB 8679 PG 218 PB 17 PG 4

202 STORESMART FAYETTEVILLE NC, LP

203 HALLIE ARTLEY, ET AL DB 3280 PG 328 PB 63 PG 9

204 HAROLD KIDD, ET UX DB 4124 PG 563 PB 133 PG 142

205 VILLAGE COMPANY, LLC DB 4731 PG 167 PB 89 PG 29

206 BRYANT RESTURANTS, INC. DB 5282 PG 357 PB 60 PG 91

205 VILLAGE COMPANY, LLC DB 4731 PG 167 PB 89 PG 29

208 SKY, LLC. DB 10973 PG 581 PB 60 PG 91

RETAIN EXIST SS

ADJUSTMENT OF MANHOLE (EXSS-50)

ADJUSTMENT OF MANHOLE (SS)

ADJUSTMENT OF MANHOLE (EXSSMH-8)

PROP. 10 LF OF 12" DI SANITARY GRAVITY SEWER

4' DIA UTILITY MANHOLE (SSMH-7)

SS-2

PROP. 26 LF OF 12" DI SANITARY GRAVITY SEWER

SR 1003 (CAMDEN RD) (STATE ST)

SR 1003 (CAMDEN ROAD)

SEE SHEET UC-30 - UC-31 FOR -WL1- PROFILE
SEE SHEET UC-35 - UC-36 FOR -WL3- PROFILE
SEE SHEET UC-40 FOR -WL20- PROFILE
SEE SHEET UC-40 FOR -WL21- PROFILE
SEE SHEET UC-41 FOR -SS-2- PROFILE
SEE SHEET UC-43 FOR -SS-6- PROFILE

50' 25' 0' 50' 100'
PLANS

SYSTEM
USER:mhall2 File:U-3422B_rdy16_UC16S_psh.dgn

5/14/99

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-17W
DESIGNED BY: SSM	
DRAWN BY: SSM	
CHECKED BY: HMH	
APPROVED BY: MAP	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL SEAL 035021 ENGINEER HEATHER HARKENRIDER

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION WATER ONLY

NAD 83/2011

NC 59 (HOPE MILLS RD)

STREAM SA (LITTLE ROCKFISH CREEK)

TO NC 59 HOPE MILLS RD.

205+00

200+00

TOWN LIMIT OF HOPE MILLS

WETLAND WA

STREAM SB

-WL1- STA. 184+22.35 R 2
TIE TO EXIST. 16" DI RJ WATER LINE
-L- STA. 201+02.07 (111.18' LT)
W/ 45° BEND(HORZ.)

16" WATER MAIN KILLOUT (PWC W-22)

16" VALVE

16" VALVE

ABANDON 331 LF OF 16" UTILITY PIPE

PROP. 2-1" WATER METER 12 LF OF WATER SERVICE LINE

PROP. 1" WATER METER 11 LF OF WATER SERVICE LINE
PROP. 1" RPZ BACKFLOW PREVENTION ASSEMBLY

16" VALVE

PROP. FIRE HYDRANT 2.9 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE

16"x6" TEE

PROP. 274 LF OF 16" DI WATER LINE

WL-1

FIVE RIDDLES III, INC.
DB 7472 PG 212
PB 106 PG 117

W HOPE M LIMITED PARTNE
DB 6
PB

H & G PROPERTIES
DB 6833 PG 733
PB 114 PG 121

SMITH FAMILY CONSERVANCY LLC
DB 8330 PG 779
(DB 647 PG 243)

STREAM SC

SR 1003 (CAMDEN RD)

STREAM SE

ABANDON 73 LF OF 16" UTILITY PIPE

PROP U/G COMMUN CONDUIT

DB 5535 PG 2

SR 1596 (HOPE MILLS RD)

12" WATER MAIN KILLOUT (PWC W-22)

6"X6" TEE

6" VALVE

PROP. 28 LF OF 6" WATER LINE
WL-3

12"X6" MJ REDUCER

11.25° BEND (HORZ.)

STREAM SE UPPER
RAYMOND LLOYD MYRICK

STREAM SD
SMITH FAMILY CONSERVANCY LLC
DB 8330 PG 779
(DB 3609 PG 479)

STREAM SC

WETLAND WB

218

McDONALDS REAL ESTATE CO.
DB 2791 PG 210
DB 8219 PG 114

AS PER GIS 6" UTILITY PIPE
HAD BEEN ABANDONED, NOT ACTIVE

ABANDON 354 LF OF 12" UTILITY PIPE

208

CAROLINA BLUE SKY, LLC
DB 10973 PG
PB 60 PG 9

PROP. 298 LF OF 8" DI WATER LINE
WL-3

PROP. 2-1" WATER METER
13 LF OF WATER SERVICE LINE

MATCHLINE SHEET UC-16 -L- STA. 198+00.00

MATCHLINE SEE INSET D

INSET D

MATCHLINE

SMITH FAMILY CONSERVANCY LLC
DB 8330 PG 779
(DB 3609 PG 479)

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,096 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTES: ADJUST ALL VALVES, PLUG VALVES, AND COMBINATION AIR VALVES TO FILL
NOTES: 16" WATER LINE, PROPOSED STORM, AND PROPOSED POWER POLES MAYBE WITHIN TYPICAL MINIMUM SEPERATION DISTANCE, BE AWARE FOR CONSTRUCTION STAGING.

SEE SHEET UC-23 - UC-26 FOR -WL1- PROFILE
SEE SHEET UC-36 FOR -WL3- PROFILE
SEE SHEET UC-41 FOR -WL30- PROFILE
SEE SHEET UC-41 FOR -SS-2- PROFILE

50' 25' 0' 50' 100'
PLANS

SYSTEM
USER:

5/14/99

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-17S

DESIGNED BY:	SSM
DRAWN BY:	SSM
CHECKED BY:	HMH
APPROVED BY:	MAP
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL SEAL 035021 ENGINEER HEATHER HARKENRIDER

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION SEWER ONLY

NAD 83/2011

REMOVE UTILITY MANHOLE

ABANDON 260 LF OF 12" SANITARY SEWER PIPE

PROP. 66 LF OF SEWER SERVICE LINE 4" DI

SANITARY SEWER CLEANOUT

4' DIA UTILITY MANHOLE (SSMH-2)

PROP. 29 LF OF 12" DI SANITARY GRAVITY SEWER

RETAIN EXIST SS

ADJUSTMENT OF EX. SS MANHOLE (EXSSMH-1)

4' DIA UTILITY MANHOLE (SSMH-3)

PROP. 73 LF OF 12" DI SANITARY GRAVITY SEWER

SS-2

4' DIA UTILITY MANHOLE (SSMH-4)

PROP. 95 LF OF 12" DI SANITARY GRAVITY SEWER

4' DIA UTILITY MANHOLE (SSMH-5)

PROP. 103 LF OF 12" DI SANITARY GRAVITY SEWER

4' DIA UTILITY MANHOLE (SSMH-6)

MATCHLINE SHEET UC-16 -L- STA. 198+00.00

MATCHLINE SEE INSET D

INSET D

MATCHLINE

STREAM SA (LITTLE ROCKFISH CREEK)

NC 59 (HOPE MILLS RD)

TO NC 59 HOPE MILLS RD.

205+00

200+00

TOWN LIMIT OF HOPE MILLS

WETLAND WA

STREAM SAA

STREAM SB

WETLAND WB

H & G PROPERTIES DB 6833 PG 733

W HOPE MILLS REALTY LIMITED PARTNERSHIP DB 6020 PG 214 PB 71 PG

SMITH FAMILY CONSERVANCY LLC DB 8330 PG 779 (DB 647 PG 243)

STREAM SC

SR 1003 (CAMDEN RD)

SR 1596 (HOPE MILLS RD)

STREAM SE

PROP U/G COMMUN CONDUIT

DB 5535 PG 21

SMITH FAMILY CONSERVANCY LLC DB 8330 PG 779 (DB 3609 PG 479)

STREAM SD

STREAM SE UPPER

RAYMOND LLOYD MYRICK

CAROLINA BLUE SKY, LLC. DB 10973 PG 581 PB 60 PG 91

ISBK BUS

MCDONALDS DB 8219 PG 114 DB 9879 PG 89

SEE SHEET UC-23 - UC-26 FOR -WL1- PROFILE
SEE SHEET UC-36 FOR -WL3- PROFILE
SEE SHEET UC-41 FOR -WL30- PROFILE
SEE SHEET UC-41 FOR -SS-2- PROFILE

50' 25' 0' 50' 100'
PLANS

SYSTIME = 14-MAY-99 08:17
USER:HARKENRIDER
UC17S_psh.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/14/99

SEE SHEET UC-38 FOR -WL5- PROFILE
SEE SHEET UC-39 FOR -WL6- PROFILE

NOTES: ADJUST ALL VALVES, PLUG VALVES, AND COMBINATION AIR VALVES TO FILL

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 3,585 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NAD 83/2011

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-18
DESIGNED BY: SSM	
DRAWN BY: SSM	
CHECKED BY: HMH	
APPROVED BY: MAP	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 ENGINEER HEATHER HARKENRIDER 8/29/2026
Digitally signed by Heather Harkenrider
2070FCB172E...

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

MATCHLINE SHEET UC-18A -Y3- STA. 22+50.00

MATCHLINE SHEET UC-11 -Y3- STA. 36+50.00

25+00 (-Y3-)
30+00 (-Y3-)
35+00 (-Y3-)

SR 2949 (TROGDAN RD)
SR 2986 (ROUSE RD)
SR 1112 (ROCKFISH RD)
-Y3-

REMOVE FIRE HYDRANT
PROP. FIRE HYDRANT
10 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE
16"X6" TEE
PROP. OPEN CUT OF 66 LF 30" ENCASEMENT PIPE
PROP. OPEN CUT OF 89 LF 30" ENCASEMENT PIPE
2 - 45° BEND (HORZ.)
8" VALVE
16"x8" TEE
45° BEND (HORZ.)
16" VALVE
45° BEND (HORZ.)
20'X20' RECEIVING PIT
PROP. 1" WATER METER
5 LF OF WATER SERVICE LINE
ABANDON 1,402 LF OF 16" UTILITY PIPE
PROP. 1,406 LF OF 16" DI WATER LINE
WL-5
2" COMBINATION AIR VALVE
11.25° BEND (HORZ.)
PROP. FIRE HYDRANT
14 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE
8"X6" TEE
PROP. 1,249 LF OF 8" DI WATER LINE
WL-6
PROP. FIRE HYDRANT
15 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE
8"X6" TEE
22.5° BEND (HORZ.)
22.5° BEND (HORZ.)
PROP. 81 LF 16" ENCASEMENT PIPE
29 LF BORE AND JACK OF 16" ENCASEMENT
45° BEND (HORZ.)
40'X20' BORE PIT
8" VALVE

228 DICKENS FAMILY TRUST DB 11397 PG 56 PB 81PG 125
229 WILLIAM ERNEST CARLTON DB 3641PG 629
230 AVY PORTER OFFENHAUSER DB 9391PG 82 PB 39 PG 72
231 JAMES R. HARRIS, ET UX DB 2941PG 345 PB 39 PG 72
232 MARION R. STARLING, ET UX DB 9275 PG 649 PB 39 PG 72
220 ABRAHAM BENZAQUEN I, ET UX DB 2631PG 595
221 WILLIE CARL HOBBS, ET UX DB 2047 PG 9
222 CHARLES H. BAKER DB 7420 PG 127
224 SUSAN L. HAMBLIN DB 10895 PG 257
225 SUSAN L. HAMBLIN DB 10895 PG 260
226 CLAUDE RULE, ET UX DB 2743 PG 106
227
117 CROSSROAD PROPRIETARY INVESTMENTS, LLC. DB 11524 PG 103

SEPTIC SYSTEM
SEPTIC DRAIN FIELD APPROXIMATE LOCATION

50' 25' 0' 50' 100'
PLANS

SYSTIME
USER: HWARDEN
C:\Projects\3422B\Roadway\Plan\U-3422B_rdy18_UC18_psh.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-18A

DESIGNED BY:	SSM
DRAWN BY:	SSM
CHECKED BY:	HMH
APPROVED BY:	MAP
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA
Documents prepared by: CDM Smith
Heather Harkenrider
2070FC81728845D...
SEAL 035021 ENGINEER HEATHER HARKENRIDER
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

5/14/99

NAD 83/2011

MATCHLINE SHEET UC-18 -Y3- STA. 22+50.00

15+00 (-Y3-)

20+00 (-Y3-)

ABANDON 180 LF OF 16" UTILITY PIPE

11.25° BEND (HORZ.)

PROP. 195 LF OF 16" DI WATER LINE

PROP. FIRE HYDRANT
14 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE

16"X6" TEE

20'X20' RECEIVING PIT

16"x8" TEE

8" VALVE

45° BEND (HORZ.)

16" VALVE

45° BEND (HORZ.)

-WL5- STA. 32+51.09
TIE-IN TO EXIST. 16" DI RJ WATER LINE
W/ RESTRAINING GLANDS
& CONCRETE THRUST BLOCK
-Y3- STA. 20+60.28 (19.84' LT)
W/ LONG PATTERN SOLID SLEEVE

WL-5

PAMELA LUCKIE
DB 5808 PG 838
PB 81PG 125

RETAIN EXIST. WATERLINE

MARION R. STARLING, ET UX
DB 9302 PG 517

MARION R. STARLING, ET UX
DB 10063 PG 464

BILLY H. BAREFOOT, ET UX
DB 2403 PG 126

BILLY H. BAREFOOT, ET UX
DB 5645 PG 75

-Y3-
SR 1112 (ROCKFISH RD)

WATER MAIN KILLOUT (PWC W-22)

PROP. 67 LF OF 8" DI WATER LINE
30 LF BORE AND JACK OF
41 LF 16" ENCASEMENT

DALE EDWARD BARTLETT, WL-29
DB 3754 PG 142

8" RJ CAP

2" VALVE

2" BLOW OFF

8"x8" TEE

8" VALVE

40'X20' BORE PIT

REMOVE FIRE HYDRANT

PROP. 168 LF OF 8" DI WATER LINE

WL-6

TAMELA J. MASON
DB 5616 PG 540
PB 104 PG 184

TAMELA FAYE ESPARZA
DB 6364 PG 493
PB 104 PG 184

DOROTHY SMITH GRANT
DB 3842 PG 799
PB 41 PG 49

KEVIN A. GRANT, ET UX
DB 5057 PG 807
PB 41 PG 49

SR 3039 WIPPERWILL DR.

ANTHONY CHARLES DIETZ
DB 10004 PG 65
PB 41 PG 49

CYNTHIA O. BAYSA
DB 4682 PG 819
PB 41 PG 49

WINFORD BULLARD, JR. ET UX
DB 9829 PG 746
PB 41 PG 49

ROBERT B. GREGORY, ET UX
DB 2689 PG 36
PB 41 PG 49

EDWARD N. SYED, ET UX
DB 4252 PG 311
PB 41 PG 49

BILLY H. BAREFOOT, ET UX
DB 2416 PG 60
PB 41 PG 49

228 235 233 234

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,414 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-38 FOR -WL5- PROFILE
SEE SHEET UC-39 FOR -WL6- PROFILE
SEE SHEET UC-38 FOR -WL29- PROFILE

NOTES: ADJUST ALL VALVES, PLUG VALVES, AND COMBINATION AIR VALVES TO FILL

50' 25' 0' 50' 100'
PLANS

SYSTIME
USER:\\NAD\Cad\Projects\Raleigh\U-3422B\Roadway\Plans\U-3422B_UC18A_psh.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/14/99

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-19
DESIGNED BY: SSM	
DRAWN BY: SSM	
CHECKED BY: HMH	
APPROVED BY: MAP	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

NORTH CAROLINA PROFESSIONAL SEAL 035021 ENGINEER HEATHER HARKENRIDER
Docusigned by: Heather Harkenrider 2270FCB1728E4E0...
8/29/2026

NAD 83/2011

UTILITY CONSTRUCTION

MATCHLINE SHEET UC-12 -Y5- STA. 14+50.00

MATCHLINE SHEET UC-19A -Y5- STA. 28+50.00

PROP. FIRE HYDRANT
13 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE
8"X6" TEE

90° BEND (HORZ.)

8" VALVE

ABANDON 753 LF OF 12" UTILITY PIPE

40'X20' BORE PIT

PROP. 109 LF OF 16" ENCASEMENT PIPE
45 LF BORE AND JACK OF 16" ENCASEMENT

20'X20' RECEIVING PIT

12" VALVE

8" VALVE

12"x8" TEE

PROP. 1,410 LF 12" DI WATER LINE
WL-2

ABANDON 98 LF OF 12" UTILITY PIPE

PROP. FIRE HYDRANT
13 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE

12"X6" TEE

11.25° BEND (HORZ.)

TO PROP. 88 LF OF 12" DI WATER LINE
WL-24

11.25° BEND (HORZ.)

-WL24- STA. 10+87.04
TIE-IN TO EXIST. 12" DI RJ WATER LINE
W/ RESTRAINING GLANDS
& CONCRETE THRUST BLOCK
-Y5- STA. 21+50.82 (127.04' RT)
W/ LONG PATTERN SOLID SLEEVE

REMOVE WATER METER

PROP. 1" WATER METER
5 LF OF WATER SERVICE LINE

PROP. 1" WATER METER
4 LF OF WATER SERVICE LINE

PROP. 1" WATER METER
4 LF OF WATER SERVICE LINE

PROP. 1,494 LF OF 8" DI WATER LINE
WL-4

2 - 45° BEND (HORZ.)

12" VALVE

ABANDON 115 LF OF 12" UTILITY PIPE

12"x12" TEE

12" VALVE

11.25° BEND (HORZ.)

ABANDON 984 LF OF 6" UTILITY PIPE

REMOVE FIRE HYDRANT

PROP. FIRE HYDRANT
15 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE

12"X6" TEE

ABANDON 715 LF OF 12" UTILITY PIPE

PROP. 2" WATER METER
4 LF OF WATER SERVICE LINE

ABANDON 45 LF OF 6" UTILITY PIPE

PROP. FIRE HYDRANT
15 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE

8"X6" TEE

PROP. 1" WATER METER
4 LF OF WATER SERVICE LINE

PROP. 1"
WATER METER
7 LF OF WATER
SERVICE LINE

SR 1112 (ROCKFISH RD)

(SOMMER DR)

(STURBRIDGE DR)

CHARLES L. KOONCE, ET AL
DB 2252 PG 137
PB 25 PG 71

DAHLIA L STRATTON ATKINS
RANEY GLE

CHRISTIAN TABERNACLE OUTREACH MINISTRY
DB 9965 PG 390

DANNY FRANK TERRY, ET UX
DB 7969 PG 611

ELLIS E. EHLE, JR.
DB 7823 PG 852
PB 7 PG 78

ROBERT D. HI

DAVID J. LENIHAN
DB 9945 PG 443
PB 72 PG 154

DOUGLAS L. HORNE, ET AL
DB 7344 PG 521
PB 72 PG 154

SEPTIC SYSTEM

MRS. OPHER L. WALLACE, ET UX
DB 1031 PG 322
PB 72 PG 154

CUMBERLAND COUNTY BOARD OF EDUCATION
DB 2710 PG
PB 22 PG 71

DEAVER CIRCLE APARTMENTS, LLC
DB 9877 PG 72
PB 22 PG 71

CHURCH OF GOD, TRUSTEES
DB 3451 PG 542
PB 7 PG 78

VICTORY BAPTIST CHURCH, INC.
DB 6497 PG 311
PB 98 PG 200
PB 72 PG 76

DEMI JO
DB 10396
PB 99 PG 114

TOWN LIMIT OF HOPE MILLS

BASEBALL FIELD

BACK STOP FENCE

NOTES: ADJUST ALL VALVES, PLUG VALVES, AND COMBINATION AIR VALVES TO FILL

SEE SHEET UC-32 FOR -WL2- PROFILE
SEE SHEET UC-36 - UC-37 FOR -WL4- PROFILE
SEE SHEET UC-40 FOR -WL24- PROFILE

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,790 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

50' 25' 0' 50' 100'
PLANS

SYSTIME
USER: HARKENRIDER
u3422b_uc19.psh.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/14/99

MATCHLINE AA SHEET UC-13A

MATCHLINE SHEET UC-19 -Y5- STA. 28+50.00

MATCHLINE SHEET UC-19B -Y5- STA. 42+00.00

NAD 83/2011

UTILITY CONSTRUCTION WATER ONLY

CDM Smith	PROJECT REFERENCE NO.	SHEET NO.
CDM Smith Inc. 4130 Parklake Avenue Suite 350 Raleigh, NC 27612-4461 NC COA No. F-1255	U-3422B	UC-19AW
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	DESIGNED BY: SSM DRAWN BY: SSM CHECKED BY: HMH APPROVED BY: MAP REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151

NORTH CAROLINA ENGINEER HEATHER HARKENRIDER SEAL 035021 — Digitally signed by Heather Harkenrider — 8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

RETAIN 12" C900 PVC WATER MAIN

PROP. FIRE HYDRANT 12 LF OF FIRE HYDRANT LEG PROP. 6" VALVE 8"X6" TEE

2 - 45° BEND (HORZ.)

PROP. 1" WATER METER 4 LF OF WATER SERVICE LINE

PROP. 1" WATER METER 4 LF OF WATER SERVICE LINE

2 - 45° BEND (HORZ.)

REMOVE FIRE HYDRANT

PROP. 1,357 LF OF 8" DI WATER LINE WL-4

ABANDON 1,351 LF OF 12" UTILITY PIPE

PROP. FIRE HYDRANT 16 LF OF FIRE HYDRANT LEG PROP. 6" VALVE 8"X6" TEE

2" COMBINATION AIR VALVE

PROP. 1" WATER METER 9 LF OF WATER SERVICE LINE

PROP. 1" WATER METER 12 LF OF WATER SERVICE LINE PROP. 1" RPZ BACKFLOW PREVENTION ASSEMBLY

PROP. 1" WATER METER 9 LF OF WATER SERVICE LINE

PROP. 1" WATER METER 9 LF OF WATER SERVICE LINE

PROP. 1,350 LF OF 12" DI WATER LINE WL-2

6" VALVE

45° BEND (HORZ.)

6" VALVE

PROP. 1" WATER METER 9 LF OF WATER SERVICE LINE

12" VALVE

45° BEND (HORZ.)

ABANDON 86 LF OF 6" UTILITY PIPE

12"x6" TEE

6" VALVE

PROP. 1" WATER METER 8 LF OF WATER SERVICE LINE

12" VALVE

ABANDON 83 LF OF 6" UTILITY PIPE

12"x 6" TEE

PROP. 1" WATER METER 8 LF OF WATER SERVICE LINE

PROP. 50 LF OF 6" WATER LINE WL-26

PROP. FIRE HYDRANT 12 LF OF FIRE HYDRANT LEG PROP. 6" VALVE 12"X6" TEE

PROP. 45 LF OF 6" WATER LINE WL-25

-WL25- STA. 10+44.40
TIE-IN TO EXIST. 6" DI RJ WATER LINE
W/ RESTRAINING GLANDS
-Y5- STA. 34+85.56 (99.99' RT)
W/ LONG PATTERN SOLID SLEEVE

-WL26- STA. 10+49.22
TIE-IN TO EXIST.
6" DI RJ WATER LINE
W/ RESTRAINING GLANDS
-Y5- STA. 38+71.11 (102.63' RT)
W/ LONG PATTERN SOLID SLEEVE

SEE SHEET UC-32 - UC-33 FOR -WL2- PROFILE
SEE SHEET UC-37 FOR -WL4- PROFILE
SEE SHEET UC-40 FOR -WL25- PROFILE
SEE SHEET UC-41 FOR -WL26- PROFILE
SEE SHEET UC-42 FOR -SS4- PROFILE
SEE SHEET UC-42 FOR -SS5- PROFILE
SEE SHEET UC-43 FOR -SS5A- PROFILE

NOTES: ADJUST ALL VALVES, PLUG VALVES, AND COMBINATION AIR VALVES TO FILL

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,915 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

50' 25' 0' 50' 100'
PLANS

SYSTIME
USER:NCDOT\tharkenrider
D:\Projects\U-3422\Roll\Plan\U-3422_rdy19A_UC19AW_psh.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/14/99

CDM Smith	CDM Smith Inc. 4130 Parklake Avenue Suite 350 Raleigh, NC 27612-4461 NC COA No. F-1255
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-19AS
DESIGNED BY: SSM	
DRAWN BY: SSM	
CHECKED BY: HMH	
APPROVED BY: MAP	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA — Digitally signed by Heather Harkenrider — SEAL 035021 — ENGINEER — HEATHER HARKENRIDER — 8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION SEWER ONLY

NAD 83/2011

MATCHLINE AA SHEET UC-13A

MATCHLINE SHEET UC-19 -Y5- STA. 28+50.00

MATCHLINE SHEET UC-19B -Y5- STA. 42+00.00

-Y5- SR 1112 (ROCKFISH RD)

RETAIN EXIST SS

RETAIN EXIST SS

RETAIN EXIST SSMH

RETAIN EXIST SS

RETAIN EXIST SSMH

RETAIN EXIST SS

4' DIA UTILITY MANHOLE (SSMH-32)

4' DIA UTILITY MANHOLE (SSMH-31)

PROP. 392 LF OF 8" DI SANITARY GRAVITY SEWER

4' DIA UTILITY MANHOLE (SSMH-33)

PROP. 224 LF OF 8" DI SANITARY GRAVITY SEWER

PROP. 307 LF OF 8" DI SANITARY GRAVITY SEWER

4' DIA UTILITY MANHOLE (SSMH-40)

PROP. 187 LF OF 8" DI SANITARY GRAVITY SEWER

SS-4

SS-5A

PROP. 222 LF OF 8" DI SANITARY GRAVITY SEWER

SS-5

4' DIA UTILITY MANHOLE (SSMH-30)

RETAIN EXISTING SSMH (EXSSMH-41)

RETAIN EXISTING SSMH (EXSSMH-34)

(BROOKDALE ST)

(NOTBLAKE AVE.)

(LOBONTE DR.)

TOWN LIMIT OF HOPE MILLS

SEE SHEET UC-32 - UC-33 FOR -WL2- PROFILE
SEE SHEET UC-37 FOR -WL4- PROFILE
SEE SHEET UC-40 FOR -WL25- PROFILE
SEE SHEET UC-41 FOR -WL26- PROFILE
SEE SHEET UC-42 FOR -SS4- PROFILE
SEE SHEET UC-42 FOR -SS5- PROFILE
SEE SHEET UC-43 FOR -SS5A- PROFILE

50' 25' 0' 50' 100'
PLANS

USER:HHARKENRIDER DGN:U-3422B_UC19A_UC19AS_psh.dgn
SYSTIME 8/29/2026 8:37:26 AM

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/14/99

MATCHLINE SHEET UC-19A -Y5- STA. 42+00.00

CDM Smith	CDM Smith Inc. 4130 Parklake Avenue Suite 350 Raleigh, NC 27612-4461 NC COA No. F-1255
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-19B
DESIGNED BY: SSM	
DRAWN BY: SSM	
CHECKED BY: HMH	
APPROVED BY: MAP	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151	

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 ENGINEER HEATHER HARKENRIDER 8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

NAD 83/2011

UTILITY CONSTRUCTION

PROP. 109 LF OF 8" DI WATER LINE
WL-4
35'X20' BORING PIT
8" VALVE
8"x 8" TEE
11.25° BEND (HORZ.)
8" VALVE
PROP. 1" WATER METER
6 LF OF WATER SERVICE LINE
11.25° BEND (HORZ.)
2" VALVE
2" BLOW OFF
8" RJ CAP
PROP. 98 LF OF 8" WATER LINE
WL-27
PROP. 72 LF 16" ENCASEMENT PIPE
29 LF BORE AND JACK OF 16" ENCASEMENT
ABANDON 561 LF OF 12" UTILITY PIPE
ABANDON 36 LF OF 6" UTILITY PIPE
12"x 6" TEE
6" VALVE
PROP. 34 LF OF 6" WATER LINE
WL-28
RETAIN 12" C900 PVC WATER MAIN
-WL2- STA. 86+21.47
TIE-IN TO EXIST. 12" DI RJ WATER LINE
W/ RESTRAINING GLANDS
-Y5- STA. 45+83.82 (1.68' RT)
W/ LONG PATTERN SOLID SLEEVE
11.25° BEND (HORZ.)
12" VALVE
11.25° BEND (HORZ.)
PROP. 1" WATER METER
7 LF OF WATER SERVICE LINE
PROP. 461 LF OF 12" DI WATER LINE
WL-2
12" VALVE
2 - 45° BEND (HORZ.)
-WL28- STA. 10+31.96
TIE-IN TO EXIST. 6" DI RJ WATER LINE
W/ RESTRAINING GLANDS
-Y5- STA. 44+10.85 (60.12' RT)
W/ LONG PATTERN SOLID SLEEVE
RETAIN 12" C900 PVC WATER MAIN
2 - 45° BEND (HORZ.)
PROP. FIRE HYDRANT
7 LF OF FIRE HYDRANT LEG
PROP. 6" VALVE
12"X6" TEE
12" VALVE
8" VALVE
12"x 8" TEE
20'X20' RECEIVING PIT
REMOVE EXIST. FIRE HYDRANT

-Y5- SR 1112 (ROCKFISH RD)

(MAIDSTONE DR)

(CLOVIS COURT)

(CHAUCER DR)

RICHARD MULLIS DB 2160 PG 595
CHURCH OF GOD
HILDEGARD HARRIER DB 2201 PG 159 PB 31 PG 60
BILLY G. GASKINS SR. DB 4725 PG 533 PB 31 PG 60
DOVIE MAE HALL DB 8526 PG 167 PB 31 PG 60
KIRK P. ECKERT DB 7298 PG 404
JOHNSON W. HAYES DORIS C. HAYES DB 7357 PG 321 PB 109 PG 159
JOHNSON W. HAYES DORIS C. HAYES DB 7104 PG 825 PB 109 PG 159
DWAYNE P. MAXWELL DB 4595 PG 806 PB 90 PG 63
LANNY MORRISON LINDA MORRISON DB 8568 PG 23
TOWN LIMIT OF HOPE MILLS
CICERO MAXWELL REALTY COMPANY, INC. DB 4165 PG 482 PB 90 PG 63
THOMAS TAYLOR JUDY TAYLOR DB 5266 PG 895 PB 87 PG 106
KELLY G. SYKES KARIN M. SYKES DB 4381PG 572 PB 87 PG 106
MELODY CLARK DB 4709 PG 148 PB 87 PG 106
PHIL WILLINGHAM MILDRED WILLINGHAM DB 4365 PG 265 PB 87 PG 106
JOY C. SANCHEZ DON D. SANCHEZ DB 7819 PG 3 PB 87 PG 106
CHRISTOPHER BERRY TEIZEL E. BERRY DB 7450 PG 228 PB 87 PG 106
JULIO C. VARON LUZ V. MANRIQUE DB 9342 PG 569 PB 87 PG 106
SANDRA TOBIN DB 9984 PG 202 PB 87 PG 106
JEFFREY LASSITER SHARON LASSITER DB 5395 PG 643 PB 87 PG 106

SEE SHEET UC-33 FOR -WL2- PROFILE
SEE SHEET UC-37 FOR -WL4- PROFILE
SEE SHEET UC-41 FOR -WL27- PROFILE
SEE SHEET UC-41 FOR -WL28- PROFILE

NOTES: ADJUST ALL VALVES, PLUG VALVES, AND COMBINATION AIR VALVES TO FILL

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,437 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

50' 25' 0' 50' 100'
PLANS

SYSTIME
USER: MPHILLIPS

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

THE DEFLECTIONS SHOWN ON ALL PROFILES ARE AT A MAXIMUM OF 3 DEGREES.

PROPOSED 12" WATERLINE –WL1– CAMDEN ROAD

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-28
DESIGNED BY: SSM	
DRAWN BY: SSM	
CHECKED BY: HMH	
APPROVED BY: MAP	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

Digitally signed by HEATHER HARKENRIDER
207DFCB1726E4ED...
NORTH CAROLINA PROFESSIONAL SEAL 035021 ENGINEER HEATHER HARKENRIDER
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

UC-10 | UC-11

MATCHLINE -WL1- PHASE A STA. 96+50
SEE SHEET UC-27

EX. VALVE 96+76.65
BEGIN PHASE B

12"X6" TEE (FH)
97+70.99

GATE VALVE 103+11.27
12"X8" TEE (WL-13)
103+24.54

12"X6" TEE (FH)
105+77.96

45°BEND(VERTICAL)
106+22.45
45°BEND(VERTICAL)
106+31.30

45°BEND(VERTICAL)
107+86.85

45°BEND(VERTICAL)
107+93.92

EXIST.GRADE

EXIST.TELEPHONE
EXIST.POWER
PROP.CATV CABLES
EXIST.POWER
PROP.TEL.CONDUIT
PROP.TEL.CONDUIT
PROP.TEL.CONDUIT
PROP.TEL.CONDUIT
PROP.TEL.CONDUIT
PROP.COMMUN.FO.CABLES
PROP.TEL.CONDUIT
PROP.TEL.CONDUIT

STA. 96+76.65
BEGIN RJDI

STA. 98+73.00
RJDI TO DI

STA. 102+09.27
DI TO RJDI

STA. 104+13.27
RJDI TO DI

STA. 104+75.96
DI TO RJDI

PROP. 1,273 LF OF
12" WATER LINE
WL-1

PROP. 30" RCP
INV.173.38 ±

PROP. 142 LF OF
24" ENCASEMENT
STA. 106+40.53 TO
STA.107+81.85

15'

STA. 109+02.66
RJDI TO DI

STA. 109+32.02
DI TO RJDI

MATCHLINE -WL1- STA. 108+50
SEE THIS SHEET

SEE SHEET UC-11 - UC17 FOR -WL1- PLAN

97 98 99 100 101 102 103 104 105 106 107 108 109

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 12" & 16" WATERLINE –WL1– CAMDEN ROAD

UC-11 | UC-12

MATCHLINE -WL1- STA. 109+50
SEE THIS SHEET

MIN. 3.5' COVER

GATE VALVE 110+96.20
16"X16" TEE (WL-5)
111+04.21

22.5°BEND(VERTICAL)
118+20.55
22.5°BEND(VERTICAL)
118+34.62

GATE VALVE 118+56.64
16"X8" TEE (WL-3)
118+71.67
45°BEND(VERTICAL)
118+81.67
45°BEND(VERTICAL)
118+86.00

16"X6" TEE (FH)
119+30.24

EXIST.GRADE

EXIST.12" WATER TO BE ABANDONED
EXIST.6" WATER TO BE ABANDONED
EXIST.TELEPHONE
EXIST.POWER
EXIST.POWER
EXIST.POWER

PROP. 15" RCP
INV.172.89 ±

16"X12"
MJ REDUCER
STA. 109+95.00

PROP. 41 LF OF
12" WATER LINE
WL-1

STA. 112+52.20
RJDI TO DI

PROP. 15" RCP
INV.171.94 ±
PROP. 15" RCP
INV.172.41 ±

STA. 114+22.60
DI TO RJDI

PROP. 48" RCP
INV.168.09 ±

PROP. 1,262 LF OF
16" WATER LINE
WL-1

STA. 115+13.06
RJDI TO DI

STA. 117+08.64
DI TO RJDI

PROP. 48" RCP
INV.167.00 ±

PROP.COMMUN.FO.CABLES

PROP. 15" RCP
INV.169.70 ±

PROP. 24" RCP
INV.167.74 ±

STA. 120+78.24
RJDI TO DI

MATCHLINE -WL1- STA. 122+50
SEE SHEET UC-29

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 2,230 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-04 - UC17 FOR -WL1- PLAN

110 111 112 113 114 115 116 117 118 119 120 121 122

SYSTEM
-SYSTEM-
USER: HARKENRIDERHM
uc-wpu128.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 16" WATERLINE –WL1– CAMDEN ROAD

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-29

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA SEAL 035021 ENGINEER HEATHER HARKENRIDER
Digitally signed by: Heather Harkenrider
8/29/2026
UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

UC-12 | UC-13

MATCHLINE -WL1- STA. 122+50 SEE SHEET UC-29

EXIST.TELEPHONE
PROP.TEL.CONDUIT
15'
STA. 125+33.26 DI TO RJDI
PROP. 15" RCP INV.170.30 ±
MIN. 3.5' COVER
45°BEND(VERTICAL) 126+87.28
45°BEND(VERTICAL) 126+96.42
45°BEND(VERTICAL) 127+46.42
45°BEND(VERTICAL) 127+55.00
16"X6" TEE (FH) 128+32.57
45°BEND(VERTICAL) 129+27.55
45°BEND(VERTICAL) 129+36.85
45°BEND(VERTICAL) 129+86.85
45°BEND(VERTICAL) 129+96.48
PROP. 54" RCP INV.161.43 ±
PROP. 1,315 LF OF 16" WATER LINE WL-1
PROP. 54" RCP INV.161.71 ±
STA. 130+69.26 RJDI TO DI
MIN. 3.5' COVER
EXIST.GRADE
EXIST.TELEPHONE
PROP.COMMUN.F.O.CABLES
PROP. 15" RCP INV.168.10 ±
STA. 134+83.84 DI TO RJDI

MATCHLINE -WL1- STA. 135+50 SEE THIS SHEET

SEE SHEET UC-11 - UC17 FOR -WL1- PLAN

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 16" WATERLINE –WL1– CAMDEN ROAD

UC-13 | UC-14

MATCHLINE -WL1- STA. 135+50 SEE THIS SHEET

16"X6" TEE (FH) 136+31.84
PROP.COMMUN.F.O.CABLES
EXIST.POWER
STA. 137+79.84 RJDI TO DI
STA. 138+40.00 DI TO RJDI
PROP.COMMUN. F.O.CABLES
GATE VALVE 139+88.00
EXIST. TELEPHONE
EXIST.8" SS
15'
16"X8" TEE (WL-15) 140+05.35
EXIST.8" WATER (TO BE ABANDONED)
EXIST. T GAS
EXIST.POWER
PROP. 15" RCP INV.169.33 ±
PROP. 1,300 LF OF 16" WATER LINE WL-1
16"X6" TEE (FH) 143+67.51
2-EXIST.TELEPHONE
PROP.COMMUN.F.O.CABLES
EXIST.TV
PROP. 15" RCP INV.168.33 ±
MIN. 3.5' COVER
8" DI SS w/ 16" ENCASEMENT (BY OTHERS)
16"X8" TEE (WL-17) 146+61.26
GATE VALVE 146+76.99
EXIST.GRADE

MATCHLINE -WL1- STA. 148+50 SEE SHEET UC-30

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 3,410 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-11 - UC17 FOR -WL1- PLAN

SYSTIME = 28-AUG-2026 11:58:18 USER= HARKENRIDER
U:\projects\3422B\Design\Roadway\Utilities\uc-sheets\uc-sheet-29.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 16" WATERLINE –WL1– CAMDEN ROAD

UC-14 ⟷ UC-15

MATCHLINE -WL1- STA. 148+50
SEE SHEET UC-29

EXIST.GRADE

2" COMBINATION AIR VALVE
151+67.89

16"X6" TEE (FH)
153+08.44

45° BEND (VERTICAL)
153+47.79

45° BEND (VERTICAL)
153+54.71

45° BEND (VERTICAL)
153+74.73

45° BEND (VERTICAL)
153+81.89

EXIST.TELEPHONE
EXIST.TELEPHONE
EXIST.TELEPHONE
EXIST.TV
PROP.GAS
EXIST.GAS
PROP.COMMUN.FO.CABLES
EXIST. TELEPHONE
EXIST. TELEPHONE
EXIST.GAS
EXIST.

STA. 148+98.21
RJDI TO DI

STA. 150+19.89
DI TO RJDI

STA. 154+56.44
RJDI TO DI

PROP. 66" RCP
INV.151.55 ±

PROP. 24" RCP
INV.162.65 ±

PROP. 15" RCP
INV.163.96 ±

PROP. 18" RCP
INV.163.65 ±

PROP. 1,306 LF OF
16" WATER LINE
WL-1

MIN.
3.5'
COVER

PROP. 8" DI SS

STA. 160+32.05
DI TO RJDI

MATCHLINE -WL1- STA. 161+50
SEE THIS SHEET

SEE SHEET UC-11 - UC17 FOR -WL1- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-30

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 ENGINEER HEATHER HARKENRIDER
Heather Harkenrider
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 16" WATERLINE –WL1– CAMDEN ROAD

UC-15 ⟷ UC-16

MATCHLINE -WL1- STA. 161+50
SEE THIS SHEET

16"X6" TEE (FH)
161+80.05

22.5° BEND (VERTICAL)
164+75.63

22.5° BEND (VERTICAL)
164+86.29

22.5° BEND (VERTICAL)
165+70.04

22.5° BEND (VERTICAL)
165+79.05

16"X6" TEE (FH)
167+03.05

EXIST.GRADE

MIN.
3.5'
COVER

EXIST.GAS
EXIST.GAS
EXIST.TV
PROP.COMMUN.FO.CABLES
PROP.COMMUN.FO.CABLES
PROP.COMMUN.FO.CABLES
EXIST. TELEPHONE

STA. 163+28.05
RJDI TO DI

STA. 164+45.69
DI TO RJDI

STA. 168+51.05
RJDI TO DI

STA. 173+39.26
DI TO RJDI

PROP. 36" RCP
INV.163.61 ±

PROP. 74 LF OF
30" ENCASEMENT
STA. 164+91.27 TO
STA.165+65.04

PROP. 24" RCP
INV.166.08 ±

PROP. 1,302 LF OF
16" WATER LINE
WL-1

PROP. 15" RCP
INV.170.38 ±

MATCHLINE -WL1- STA. 174+50
SEE SHEET UC-31

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 2,740 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-11 - UC17 FOR -WL1- PLAN

-SYSTIME
-USERNAME
-USERPROFILE
-ACADVERDATE
-ACADPROFILE

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 16" WATERLINE –WL1– CAMDEN ROAD

UC-16 ⟷ UC-17

MATCHLINE -WL1- STA. 174+50
SEE SHEET UC-30

16"X6" TEE (FUTURE CONNECTION) 174+87.26
16"X6" TEE (LARGE BFP REPLACEMENT) 174+91.99
16"X6" TEE (FH) 176+99.31
45°BEND(VERTICAL) 178+82.98
45°BEND(VERTICAL) 178+90.96
45°BEND(VERTICAL) 179+10.96
45°BEND(VERTICAL) 179+18.15
GATE VALVE 179+95.85
16"X8" TEE (WL-21) 180+53.51
11.25°BEND(VERTICAL) 181+23.87
11.25°BEND(VERTICAL) 181+49.56
11.25°BEND(VERTICAL) 181+65.98
11.25°BEND(VERTICAL) 181+75.93
GATE VALVE 182+96.88
16"X6" TEE (FH) 183+07.55
22.5°BEND(VERTICAL) 183+21.41
22.5°BEND(VERTICAL) 183+29.19
GATE VALVE 184+17.50

PROP.GAS
2-EXIST.POWER
PROP.COMMUN.FO.CABLES
EXIST.POWER
EXIST.T GAS
EXIST.15" STORM
EXIST. T GAS
EXIST. POWER
EXIST. TELEPHONE
EXIST.48" STORM
MIN. 3.5' COVER
EXIST.POWER
EXIST.T GAS
EXIST.8" WATER ITO BE ABANDONED
EXIST.POWER
EXIST.8" WATER ITO BE ABANDONED
EXIST.8" WATER ITO BE ABANDONED
PROP. 4" SS
PROP. 899 LF OF 16" WATER LINE WL-1
EXIST.POWER
STA. 183+45.38 END RJDI
EXIST.8" WATER ITO BE ABANDONED
EXIST.TELEPHONE
PROP.COMMUN. FO.CABLES
EXIST. GRADE
EXIST.8" WATER (NET WM)

SEE SHEET UC-11 - UC17 FOR -WL1- PLAN

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" & 12" WATERLINE –WL2– CAMDEN ROAD

UC-10 ⟷ UC-11

MATCHLINE -WL1- STA. 31+00
SEE SHEET UC-26 PHASE A

EXIST. VALVE BEGIN PHASE B 31+64.39
8"X6" TEE (FH) 33+51.63
EXIST. GRADE MIN. 3.5' COVER
GATE VALVE 37+99.48
45°BEND(VERTICAL) 38+02.86
45°BEND(VERTICAL) 38+09.55
8"X8" TEE (WL-13) 38+13.48
GATE VALVE 38+28.36
8"X6" TEE (FH) 42+77.87
22.5°BEND(VERTICAL) 43+68.78
22.5°BEND(VERTICAL) 43+76.23

PROP.CATV CABLES
PROP.COMMUN.CABLES
STA. 31+64.39 BEGIN RJDI
STA. 32+36.39 RJDI TO DI
STA. 32+79.63 DI TO RJDI
STA. 34+23.63 RJDI TO DI
PROP. 15" RCP INV.181.86 ±
PROP. 15" RCP INV.181.92 ±
PROP. 15" RCP INV.181.96 ±
STA. 37+23.74 DI TO RJDI
PROP. 1,144 LF OF 8" WATER LINE WL-2
STA. 39+00.36 RJDI TO DI
PROP.COMMUN.CABLES
2-PROP.COMMUN.FO.CABLES
2-PROP.T.EL.CONDUIT
STA. 40+76.89 DI TO RJDI
PROP. 18" RCP INV.177.15 ±
PROP. 143 LF OF 16" ENCASEMENT STA. 41+09.32 TO STA. 42+52.52
2-EXIST.POWER
EXIST.TV
EXIST.POWER
EXIST.TELEPHONE
EXIST.T GAS
PROP.POWER
PROP.CATV CABLES
PROP.COMMUN.CONDUIT
PROP. 15" RCP INV.178.47 ±
12"X8" MJ REDUCER STA. 43+05.38
PROP. 95 LF OF 12" WATER LINE -WL-2-
STA. 43+96.23 RJDI TO DI

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 3,870 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-11 - UC12, UC-19 - UC-19B FOR -WL2- PLAN

MATCHLINE -WL2- STA. 44+00
SEE SHEET UC-32

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-31

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 HEATHER HARKENRIDER
Docusigned by: Heather Harkenrider 2D70FCB172B24E4...
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

SYSTEM FILE: U:\...\sheet31.dgn
USER: HARKENRIDERHM

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 12" WATERLINE –WL2– CAMDEN ROAD/ROCKFISH ROAD

UC-11 ⟷ UC-12

UC-12 ⟷ UC-19

MATCHLINE -WL2- STA. 44+00
SEE SHEET UC-31

12"X6" TEE (FH)
48+76.32

12"X12" TEE (WL-22)
52+01.66

GATE VALVE 52+08.21

12"X8" TEE (WL-4)
54+92.22

GATE VALVE 55+02.50

MATCHLINE -WL2- STA. 57+00
SEE THIS SHEET

PROP.COMMUN.FO.CABLES
PROP.POWER
PROP.COMMUN.CONDUIT
EXIST.GAS
EXIST.TELEPHONE
EXIST.IP STORM
EXIST.POWER
3-EXIST.POWER
4-EXIST.TELEPHONE
EXIST.TV
2-EXIST.TELEPHONE
2-PROP.TELEPHONE
EXIST.WATER (TO BE ABANDONED)
15"

STA. 47+74.32
DI TO RJDI

STA. 49+78.32
RJDI TO DI

MIN. 3.5' COVER

PROP. 1,300 LF OF 12" WATER LINE WL-2

STA. 50+99.66
DI TO RJDI

STA. 53+10.21
RJDI TO DI

STA. 53+90.22
DI TO RJDI

PROP. 24" RCP
INV.167.65 ±

PROP. 24" RCP
INV.169.13 ±

STA. 56+04.53
RJDI TO DI

STA. 56+82.37
DI TO RJDI

SEE SHEET UC-11 - UC12, UC19 - UC19B FOR -WL2- PLAN

PROPOSED 12" WATERLINE –WL2– ROCKFISH ROAD

UC-19 ⟷ UC-19A

MATCHLINE -WL2- STA. 57+00
SEE THIS SHEET

12"X6" TEE (FH)
57+85.87

PROP.TEL.CONDUIT

EXIST.GRADE

12"X12" TEE (WL-24)
61+67.22

GATE VALVE 62+53.64

12"X6" TEE (FH)
66+34.02

MATCHLINE -WL2- STA. 70+00
SEE SHEET UC-33

3-EXIST.TELEPHONE
EXIST.TV
EXIST.POWER
EXIST.IP WATER (TO BE ABANDONED)
EXIST.WATER (TO BE ABANDONED)
PROP.COMMUN.CABLES
EXIST.TELEPHONE
15'

STA. 58+87.87
RJDI TO DI

PROP. 15" RCP
INV.169.88 ±

PROP. 15" RCP
INV.168.38 ±

STA. 60+65.22
DI TO RJDI

STA. 63+55.64
RJDI TO DI

PROP. 1,305 LF OF 12" WATER LINE WL-2

STA. 65+32.02
DI TO RJDI

STA. 67+36.02
RJDI TO DI

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 0 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-11 - UC12, UC19 - UC19B FOR -WL2- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-32
DESIGNED BY: SSM	
DRAWN BY: SSM	
CHECKED BY: HMH	
APPROVED BY: MAP	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 ENGINEER HEATHER HARKENRIDER
Heather Harkenrider
2070FCB172B9E4E...
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

SYSTEM
-WL2-
USER: HARKENRIDERHM
U:\projects\32.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 12" WATERLINE –WL2– ROCKFISH ROAD

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-33

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: KAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 HEATHER HARKENRIDER
Documented by: SSM
Reviewed by: Heather Harkenrider
2270C0B172B44B0...
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

MATCHLINE -WL2- STA. 70+00
SEE SHEET UC-32

MIN. 3.5' COVER

12"X6" TEE (FH)
74+47.71

12"X6" TEE (WL-25)
75+05.83
GATE VALVE 75+32.31

STA. 73+45.71
DI TO RJDI

EXIST.POWER
EXIST.TELEPHONE

STA. 76+34.31
RJDI TO DI

PROP. 1,301 LF OF
12" WATER LINE
WL-2

PROP. 8" SS

22.5°BEND(VERTICAL)
78+76.05
22.5°BEND(VERTICAL)
78+80.74

12"X6" TEE (WL-26)
78+84.93
GATE VALVE 79+05.73

STA. 77+82.93
DI TO RJDI

EXIST.10" WATER
(TO BE ABANDONED)

STA. 80+07.73
RJDI TO DI

EXIST.GRADE

11.25°BEND(VERTICAL)
82+10.78
11.25°BEND(VERTICAL)
82+24.72

STA. 81+69.12
DI TO RJDI

EXIST.TELEPHONE
EXIST.POWER
PROP.TEL. CONDUIT

UC-19A

UC-19B
12"X8" TEE (WL-27)
82+71.12
GATE VALVE
82+86.69

MATCHLINE -WL2- STA. 83+00
SEE THIS SHEET

SEE SHEET UC-11 - UC12, UC-19 - UC-19B FOR -WL2- PLAN

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 12" WATERLINE –WL2– ROCKFISH ROAD

MATCHLINE -WL2- STA. 83+00
SEE THIS SHEET

12"X6" TEE (FH)
83+10.59

12"X6" TEE (WL-28)
84+45.26
GATE VALVE 84+76.71

GATE VALVE 86+09.81

MIN. 3.5' COVER

EXIST.TELEPHONE
PROP.TEL.CONDUIT
EXIST.10" WATER (TO BE ABANDONED)
EXIST.POWER

STA. 86+79.91
END RJDI

EXIST.12" WATER (RETAIN)

PROP. 380 LF OF
12" WATER LINE
WL-2

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 880 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-11 - UC12, UC-19 - UC-19B FOR -WL2- PLAN

SYSTEM
-SYSTEM_U1_USGU433.dgn
USER: HARKENRIDERHM

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL3– CAMDEN ROAD

UC-12 ↔ UC-13

TIE TO WL-1 STA. 118+62.95
= WL-3 STA. 10+00.00
GATE VALVE 10+06.00

GATE VALVE 11+16.84

8"X6" TEE (FH)
15+03.17

8"X6" TEE (FH)
20+77.59

EXIST.GRADE

PROP. COMMUN. CONDUIT
EXIST. TELEPHONE, EXIST. TELEPHONE, EXIST. W WATER TO BE ABANDONED, EXIST. TELEPHONE, EXIST. TELEPHONE, EXIST. GAS, EXIST. TELEPHONE
2-PROP. COMMUN. FO CABLES
PROP. COMMUN. CONDUIT
PROP. TEL CONDUIT
PROP. COMMUN. CONDUIT
PROP. COMMUN. CONDUIT
2-PROP. COMMUN. FO CABLES

STA. 11+88.84 RJDI TO DI
STA. 14+31.17 DI TO RJDI
MIN. 3.5' COVER
STA. 15+75.17 RJDI TO DI
STA. 19+99.20 DI TO RJDI
STA. 21+43.20 RJDI TO DI

PROP. 36" RCP
INV.165.22 ±
40'X20' BORE PIT

PROP. 97 LF OF
16" ENCASEMENT
STA. 10+07.30 TO STA. 11+04.28

PROP. 1,250 LF OF
8" WATER LINE
WL-3

20'X20' RECEIVING PIT
PROP. 48" RCP
INV.166.89 ±

STA. 10+00.00
BEGIN RJDI

MATCHLINE -WL3- STA. 22+50
SEE THIS SHEET

SEE SHEET UC-11 - UC12, UC-19 - UC-19B FOR -WL2- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-34

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: KAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA — Docusigned by: Heather Harkenrider — SEAL 035021 — ENGINEER — HEATHER HARKENRIDER — 8/20/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL3– CAMDEN ROAD

UC-13 ↔ UC-14

MATCHLINE -WL2- STA. 22+50
THIS SHEET

MIN. 3.5' COVER

EXIST.GRADE

8"X6" TEE (FH)
28+81.08

8"X6" TEE (FH)
34+65.30

GATE VALVE 35+11.24

PROP. POWER, EXIST. TV, PROP. COMMUN. FO CABLES, EXIST. POWER, 2-PROP. COMMUN. FO CABLES, EXIST. TELEPHONE, EXIST. POWER, EXIST. 8" WATER TO BE ABANDONED, EXIST. TELEPHONE, EXIST. TV, EXIST. TELEPHONE, EXIST. GAS, 2-PROP. COMMUN. FO CABLES, 6-EXIST. TELEPHONE, EXIST. 8" WATER TO BE ABANDONED, PROP. COMMUN. CONDUIT, PROP. COMMUN. FO CABLES, EXIST. 8" SS, EXIST. TELEPHONE, EXIST. 8" WATER TO BE ABANDONED, PROP. COMMUN. FO CABLES

STA. 22+63.38 DI TO RJDI
STA. 23+29.57 RJDI TO DI
STA. 25+90.13 DI TO RJDI
STA. 26+49.46 RJDI TO DI
STA. 29+09.08 DI TO RJDI
STA. 29+53.08 RJDI TO DI
STA. 31+41.97 DI TO RJDI
STA. 31+81.97 RJDI TO DI
STA. 33+93.30 DI TO RJDI

PROP. 1,300 LF OF
8" WATER LINE
WL-8

PROP. 48" RCP
INV.158.03 ±

MATCHLINE -WL2- STA. 35+50
SEE SHEET 35

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 0 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-12 - UC17 FOR -WL3- PLAN

-SYSTIME
-USER:HARKENRIDER
-FILE:H:\DARK\NBT\DETAIL\uc_prof34.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL3– CAMDEN ROAD

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-35

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 ENGINEER HEATHER HARKENRIDER
Documents signed by: Heather Harkenrider 20F0FCB1728445...
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith

CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

UC-14 ↔ UC-15

MATCHLINE -WL3- STA. 25+50 SEE SHEET UC-34

8"X8" TEE (WL-16) 38+07.89

GATE VALVE 38+32.47

8"X8" TEE (WL-17) 39+03.20

8"X6" TEE (FH) 41+25.05

MIN. 3.5' COVER

EXIST. GRADE

8"X6" TEE (FH) 47+76.06

GATE VALVE 47+34.03

MATCHLINE -WL3- STA. 48+50 SEE THIS SHEET

STA. 35+83.24 RJDI TO DI

STA. 37+35.89 DI TO RJDI

8" DI SS W/ ENCASEMENT (BY OTHERS)

STA. 39+75.20 RJDI TO DI

STA. 40+53.05 DI TO RJDI

STA. 41+97.05 RJDI TO DI

PROP. 1,300 LF OF 8" WATER LINE WL-3

STA. 46+62.04 DI TO RJDI

PROP. 15" RCP INV.164.06 ±

8"X8" TEE (WL-19) 48+42.05

SEE SHEET UC-12 - UC17 FOR -WL3- PLAN

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL3– CAMDEN ROAD

UC-15 ↔ UC-16

MATCHLINE -WL3- STA. 48+50 SEE THIS SHEET

8"X6" TEE (FH) 54+35.64

EXIST. GRADE

MIN. 3.5' COVER

STA. 49+16.16 RJDI TO DI

PROP. 8" DI SS

STA. 53+63.64 DI TO RJDI

STA. 55+07.64 RJDI TO DI

PROP. 1,303 LF OF 8" WATER LINE WL-3

PROP. 15" RCP INV.167.03 ±

PROP. 24" RCP INV.167.01 ±

PROP. 78 LF OF 16" ENCASEMENT STA. 57+26.00 TO STA. 58+04.03

PROP. 15" RCP INV.166.07 ±

STA. 57+21.93 RJDI TO DI

STA. 58+06.60 RJDI TO DI

PROP. 4" DI SS

PROP. 24" RCP INV.167.20 ±

MATCHLINE -WL3- STA. 61+50 SEE SHEET UC-36

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 0 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-12 - UC17 FOR -WL3- PLAN

SYSTIME
-SYSTIME
USER: HARKENRIDERHM

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL3– CAMDEN ROAD

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-36

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

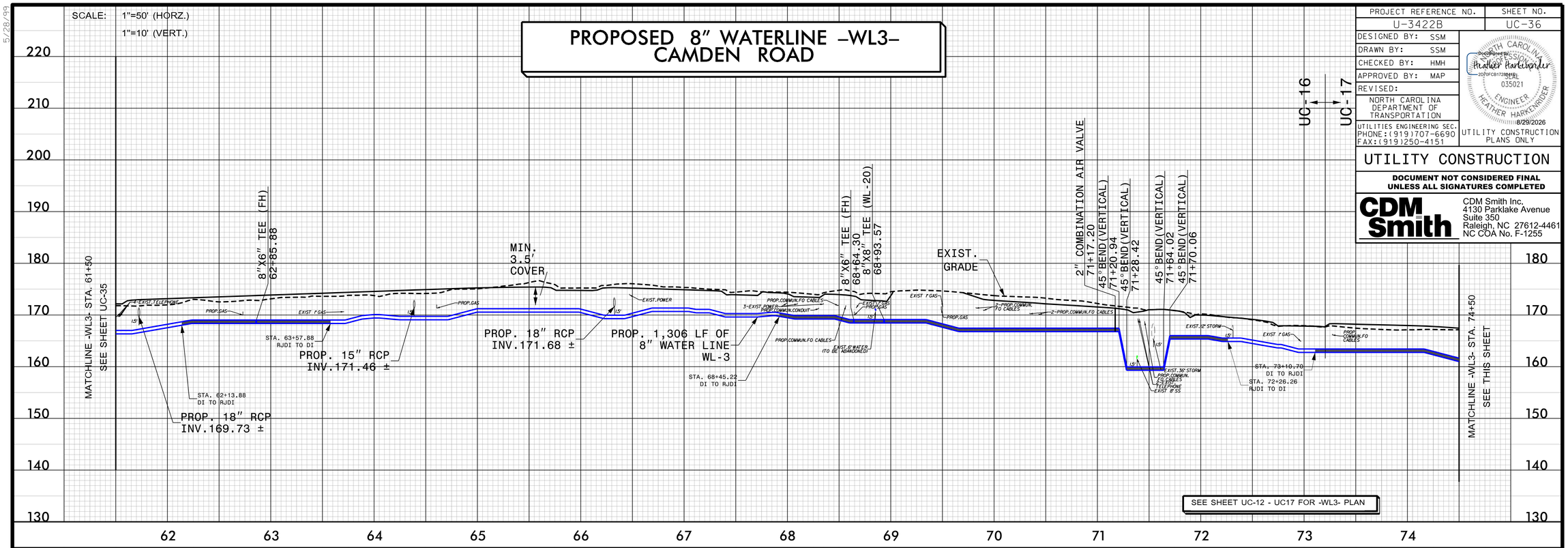
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 HEATHER HARKENRIDER
Docusigned by: Heather Harkenrider 2D70FCB1772B4E4...
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

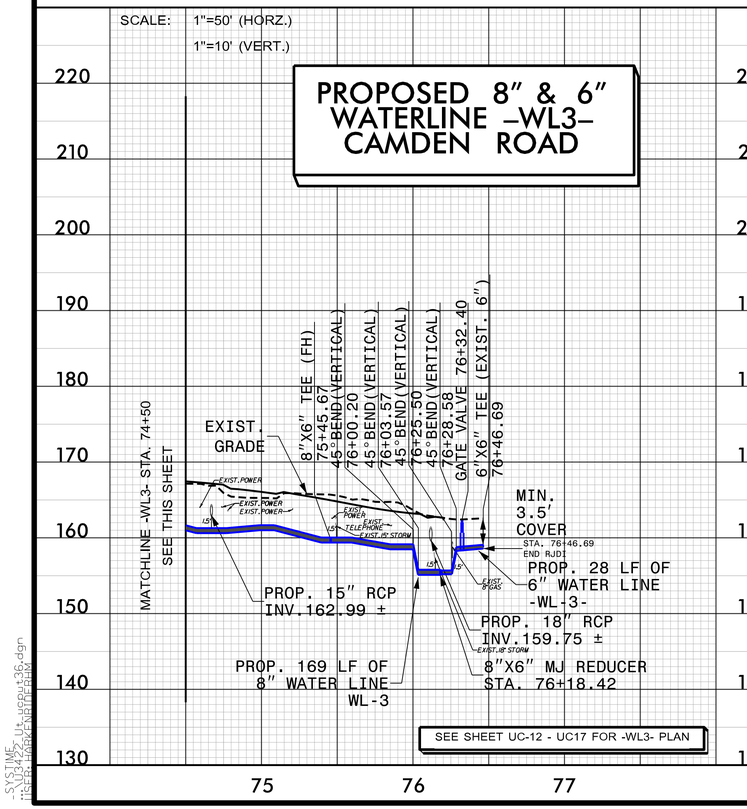
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

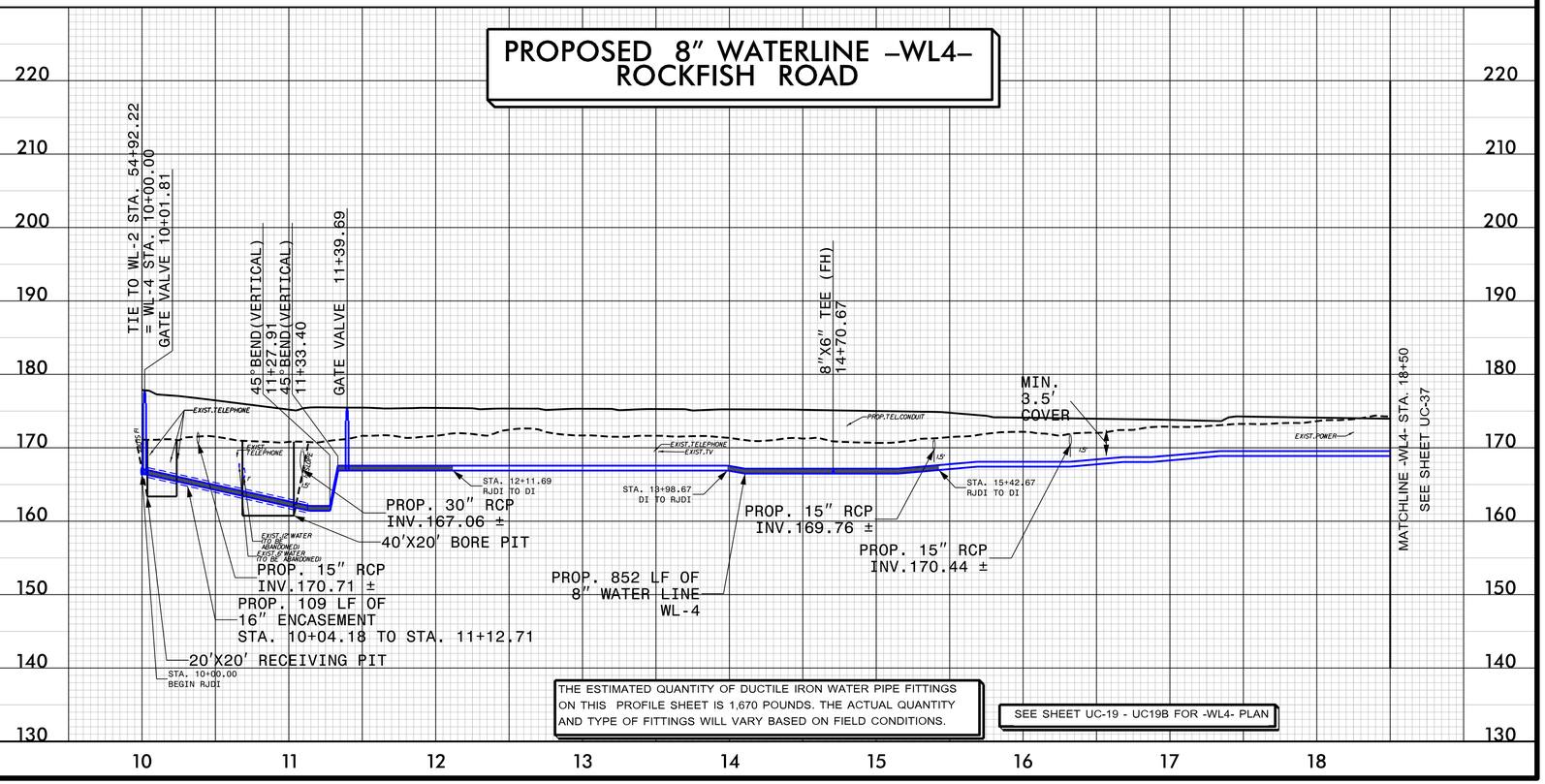


SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" & 6" WATERLINE –WL3– CAMDEN ROAD



PROPOSED 8" WATERLINE –WL4– ROCKFISH ROAD



SYSTEM
-SYSTEM
USER: MARKENRIDER
DGN: U-3422B_UC_WSPLN36.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL4– ROCKFISH ROAD

UC-19 ↔ UC-19A

EXIST.GRADE
PROP.GRADE
8"X6" TEE (FH) 22+50.59
EXIST.POWER
2-EXIST.TELEPHONE
PROP.COMMUN.FO CABLES
2-EXIST.POWER
PROP.TEL.CONDUIT
STA. 21+78.59 DI TO RJDI
STA. 23+22.59 RJDI TO DI
8"X6" TEE (FH) 28+29.57
45° BEND (VERTICAL) 28+53.81
45° BEND (VERTICAL) 28+60.78
45° BEND (VERTICAL) 28+83.88
45° BEND (VERTICAL) 28+93.24
2" COMBINATION AIR VALVE 28+98.99
15'
STA. 27+57.57 DI TO RJDI
STA. 29+70.99 RJDI TO DI
PROP. 1,307 LF OF 8" WATER LINE WL-4
PROP. 48" RCP INV.164.22 ±

MATCHLINE -WL4- STA. 18+50
SEE SHEET UC-36

MATCHLINE -WL4- STA. 31+50
SEE THIS SHEET

SEE SHEET UC-19 - UC19B FOR -WL4- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-37

DESIGNED BY: SSSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 ENGINEER HEATHER HARKENRIDER
Heather Harkenrider
2270FCB172E4EL...
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL4– ROCKFISH ROAD

UC-19A ↔ UC-19B

MATCHLINE -WL4- STA. 31+50
SEE THIS SHEET

MIN. 3.5' COVER
EXIST.GRADE
EXIST.POWER
8"X6" TEE (FH) 36+92.49
PROP.GRADE
MIN. 3.5' COVER
15'
PROP.TEL. CONDUIT
8"X8" TEE (WL-27) 39+02.05
GATE VALVE 39+14.05
RJ CAP 39+58.70
STA. 36+20.49 DI TO RJDI
STA. 37+64.49 RJDI TO DI
STA. 38+30.05 DI TO RJDI
STA. 39+58.70 END RJDI
PROP. 30" RCP INV.170.63 ±
PROP. 809 LF OF 8" WATER LINE WL-4

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 462 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-19 - UC19B FOR -WL4- PLAN

SYSTIME
-SYSTIME-
I:\SEP\PROJECTS\U-3422B\UC\u3422BUC37.dgn
USER:HARKENRIDER

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 16" WATERLINE –WL5– ROCKFISH ROAD

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-38

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 HEATHER HARKENRIDER
Docusigned by: Heather Harkenrider ZD70FCB17F3B4EB...
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

UC-12 | UC-11 | UC-11 | UC-18

TIE TO WL-1 STA. 111+04.21
= WL-5 STA. 10+00.00
GATE VALVE 10+08.00
16"X6" TEE (FH)
12+04.14
PROP.GRADE
EXIST.GRADE
11.25°BEND(VERTICAL)
18+66.34
11.25°BEND(VERTICAL)
18+83.40
16"X8" TEE (WL-6)
19+01.41
GATE VALVE 19+13.03

STA. 10+00.00
BEGIN RJDI
PROP. 15" RCP
INV.176.26 ±
STA. 13+52.14
RJDI TO DI
MIN.
3.5'
COVER
EXIST. 16" WATER LINE TO BE ABANDONED
EXIST. TELEPHONE
PROP.TEL.CONDUIT
3-EXIST.TELEPHONE
4-EXIST.TELEPHONE
15'
STA. 15+95.59
DI TO RJDI
STA. 16+35.59
RJDI TO DI
PROP. 1,151 LF OF
16" WATER LINE
WL-5
STA. 17+53.41
DI TO RJDI
PROP. 68 LF OF
30" ENCASEMENT
STA. 17+70.06 TO STA. 18+38.27
PROP. 15" RCP
INV.179.30 ±
MATCHLINE -WL5- STA. 21+50
SEE THIS SHEET

SEE SHEET UC19 - UC19B FOR -WL4- PLAN

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 16" WATERLINE –WL5– ROCKFISH ROAD

UC-18 | UC-18A

MATCHLINE -WL5- STA. 22+50
SEE THIS SHEET
16"X6" TEE (FH)
22+33.36
EXIST.TELEPHONE
PROP.TEL.CONDUIT
PROP.GRADE
EXIST.GRADE
STA. 23+81.37
RJDI TO DI
PROP. 66 LF OF
30" ENCASEMENT
STA. 22+37.33 TO
STA. 23+03.33
PROP. 1,102 LF OF
16" WATER LINE
WL-5
PROP. 15" RCP
INV.182.69 ±
15'
MIN.
3.5'
COVER
STA. 30+15.27
DI TO RJDI
16"X6" TEE (FH)
31+73.59
16"X8" TEE (WL-29)
32+04.70
GATE VALVE 32+34.31
MIN.
3.5'
COVER
EXIST. 16" WATER LINE TO BE ABANDONED
STA. 32+51.09
END RJDI

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 690 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-11, UC18 - UC18A FOR -WL5- PLAN

SYSTIME
-SYSTIME
I:\SE\U-3422B\U1_uscu38.dgn
USER:HARKENRIDER

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL6– ROCKFISH ROAD

TIE TO WL-5 STA. 19+01.41
= WL-6 STA. 10+00.00
GATE VALVE 10+03.64
EXIST 8" WATER (TO BE ABANDONED)
2-EXIST TELEPHONE
GATE VALVE 10+94.94
45° BEND(VERTICAL) 11+04.00
45° BEND(VERTICAL) 11+09.14
EXIST.GRADE
PROP.GRADE
8"X6" TEE (FH) 14+24.47
EXIST.POWER
PROP.TEL.CONDUIT
MIN. 3.5' COVER
STA. 10+00.00 BEGIN RJDI
STA. 11+66.94 RJDI TO DI
STA. 13+52.47 DI TO RJDI
STA. 14+96.47 RJDI TO DI
STA. 21+50.57 DI TO RJDI
PROP. 15" RCP INV.181.46 ± 40'X20' BORE PIT
PROP. 82 LF OF 16" ENCASEMENT STA. 10+05.53 TO STA. 10+86.03
PROP. 24" RCP INV.177.08 ± 20'X20' RECEIVING PIT
PROP. 1,203 LF OF 8" WATER LINE WL-6
PROP. 18" RCP INV.180.03 ±
MATCHLINE -WL6- STA. 22+00 SEE THIS SHEET

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 1,100 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-18 - UC18A FOR -WL6- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-39

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 ENGINEER HEATHER HARKENRIDER
Docusigned by: Heather Harkenrider 2D7DFCB1772B4E4...
6/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL6– ROCKFISH ROAD

UC-18
UC-18A
18"X6" TEE (FH) 22+22.57
PROP. GRADE
EXIST. GRADE
EXIST.POWER
11.25° BEND(VERTICAL) 23+69.34
11.25° BEND(VERTICAL) 23+81.99
GATE VALVE 23+87.11
8"X8" TEE (WL-29) 23+95.26
11.25° BEND(VERTICAL) 24+00.01
11.25° BEND(VERTICAL) 24+14.29
STA. 24+15.64 END RJDI
RJ CAP 24+15.64
MIN. 3.5' COVER
PROP. 216 LF OF 8" WATER LINE WL-6
MATCHLINE -WL6- STA. 22+00 SEE THIS SHEET

SEE SHEET UC-18 - UC18A FOR -WL6- PLAN

PROPOSED 8" WATERLINE –WL13– CAMDEN ROAD

TIE TO WL-1 STA. 103+24.54
= WL-13 STA. 9+95.64
GATE VALVE 10+00.00
2-PROP.TEL CONDUIT
EXIST. GRADE
PROP. GRADE
MIN. 3.5' COVER
EXIST.TV
EXIST. 8" GAS LINE (TO BE ABANDONED)
EXIST.TELEPHONE
PROP.COMMUN.CONDUIT
EXIST.TELEPHONE
TIE TO WL-2 STA. 38+13.48
= WL-13 STA. 11+02.50
40'X20' BORE PIT
PROP. 93 LF OF 16" ENCASEMENT STA. 10+04.00 TO STA. 10+96.51
20'X20' RECEIVING PIT
PROP. 36" RCP INV.176.97 ±
PROP. 107 LF OF 8" RJDI WATER LINE WL-13

SEE SHEET UC-11 FOR -WL13- PLAN

PROPOSED 8" WATERLINE –WL15– HARRISBUR DRIVE

TIE TO WL-1 STA. 139+96.63
= WL-15 STA. 10+00.00
22.5° BEND(VERTICAL) 10+07.66
22.5° BEND(VERTICAL) 10+11.95
PROP.GRADE
EXIST.GRADE
MIN. 3.5' COVER
GATE VALVE 10+05.00
GATE VALVE 10+34.33
EXIST.8"WATER (NEXT AVE)
PROP. 40 LF OF 8" RJDI WATER LINE -WL-15-

SEE SHEET UC-14 FOR -WL15- PLAN

PROPOSED 8" WATERLINE –WL16– SOUTH PEAK DRIVE

TIE TO WL-2 STA. 38+07.89
= WL-16 STA. 10+00.00
45° BEND(VERTICAL) 10+21.67
PROP.GRADE
EXIST.GRADE
MIN. 3.5' COVER
4-EXIST.TELEPHONE
EXIST.8"WATER (NEXT AVE)
EXIST.8"WATER (TO BE ABANDONED)
GATE VALVE 10+04.48
45° BEND (VERTICAL) 10+19.10
PROP. 8" SS
PROP. 27 LF OF 8" RJDI WATER LINE -WL-16-

SEE SHEET UC-14 FOR -WL16- PLAN

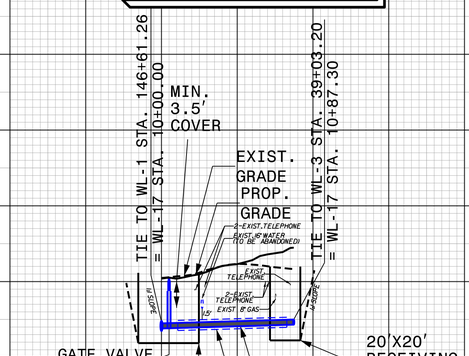
SYSTIME
-SYSTIME
USER: parkenbrf
DGN: u:\group\38.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

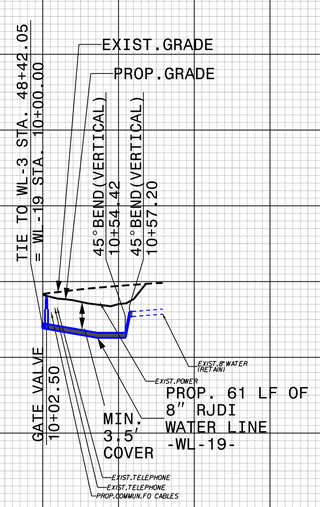
SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL17– CAMDEN ROAD



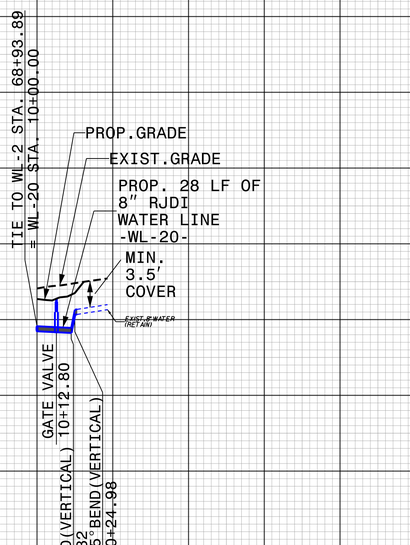
SEE SHEET UC-14 FOR -WL17- PLAN

PROPOSED 8" WATERLINE –WL19– FOOTBRIDGE LANE



SEE SHEET UC-15 FOR -WL19- PLAN

PROPOSED 8" WATERLINE –WL20– CAMDEN ROAD



SEE SHEET UC-16 FOR -WL20- PLAN

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 1,030 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-40

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 HEATHER HARKENRIDER
Digitally signed by Heather Harkenrider
2070FCB172E...
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

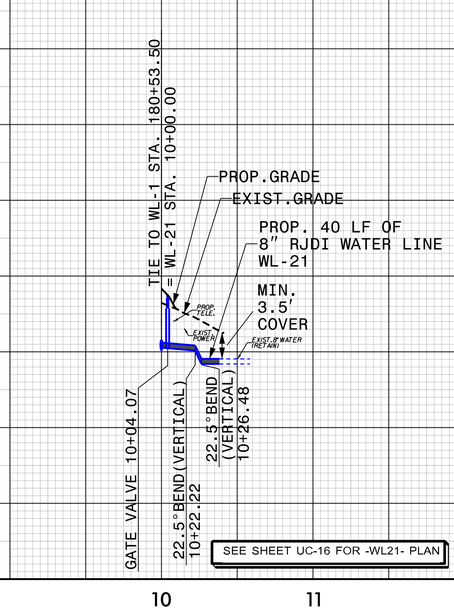
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

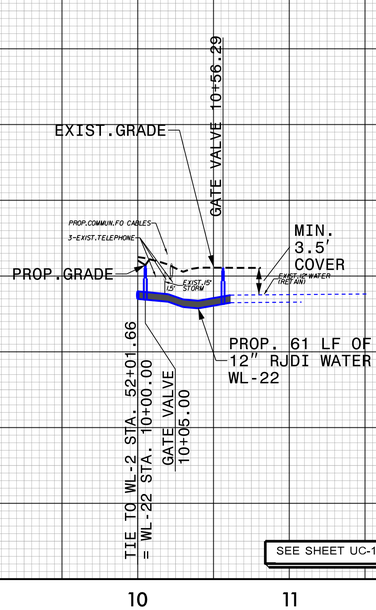
SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" WATERLINE –WL21– CAMDEN ROAD



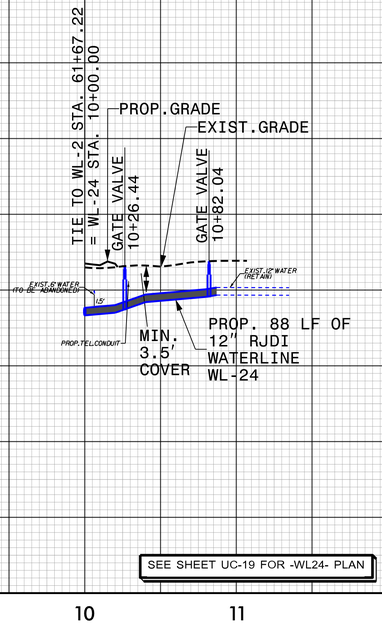
SEE SHEET UC-16 FOR -WL21- PLAN

PROPOSED 12" WATERLINE –WL22– DEAVER CIRCLE



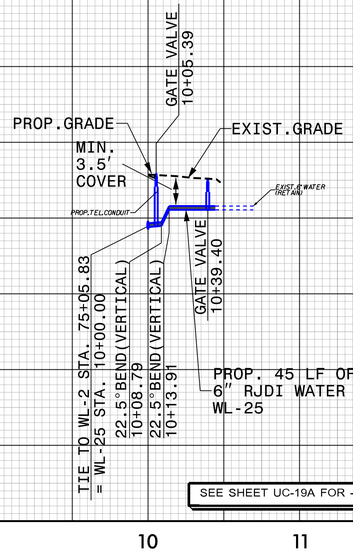
SEE SHEET UC-12 FOR -WL22- PLAN

PROPOSED 12" WATERLINE –WL24– STURBRIDGE DRIVE



SEE SHEET UC-19 FOR -WL24- PLAN

PROPOSED 6" WATERLINE –WL25– NOTBLAKE AVE.



SEE SHEET UC-19A FOR -WL25- PLAN

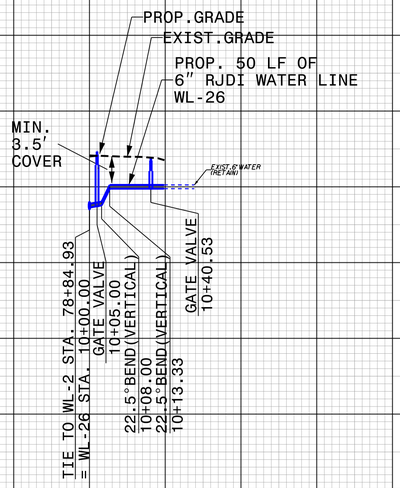
SYSTEM FILE: U-3422B_UC_group40.dgn
USER: RBARKLEY@DOT.NC.GOV

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

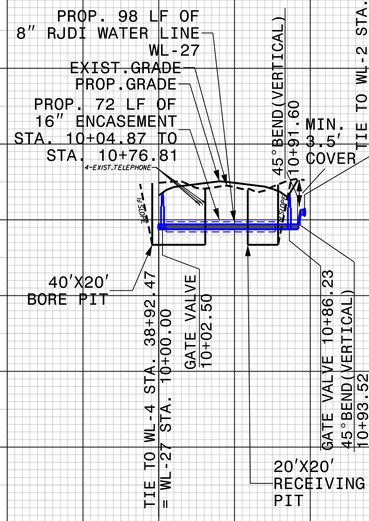
SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 6" WATERLINE –WL26– LOBONTE DRIVE



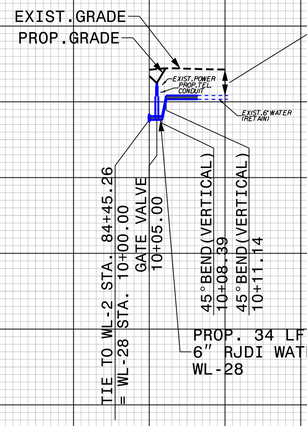
SEE SHEET UC-19A FOR -WL26- PLAN

PROPOSED 8" WATERLINE –WL27– ROCKFISH ROAD



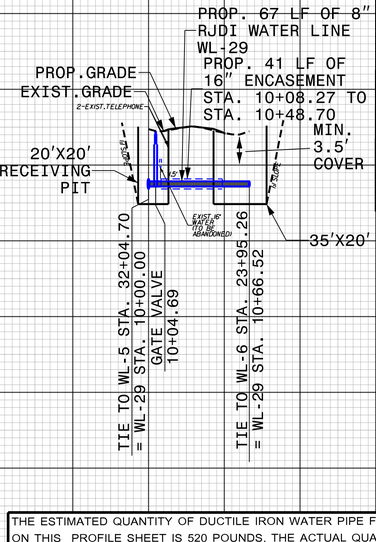
SEE SHEET UC-19B FOR -WL27- PLAN

PROPOSED 6" WATERLINE –WL28– MAIDSTONE DRIVE



SEE SHEET UC-19B FOR -WL28- PLAN

PROPOSED 8" WATERLINE –WL29– ROCKFISH ROAD



THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PROFILE SHEET IS 520 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-18A FOR -WL29- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-41
DESIGNED BY: SSM	
DRAWN BY: SSM	
CHECKED BY: HMH	
APPROVED BY: MAP	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA — Digitally signed by Heather Harkenrider — 2270FCB1726F4E0... — SEAL 035021 — ENGINEER — HEATHER HARKENRIDER — 8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

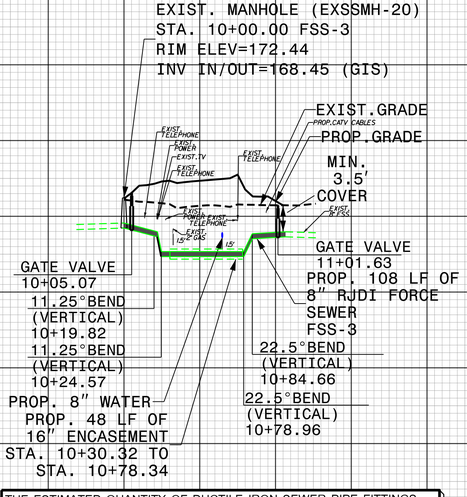
UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

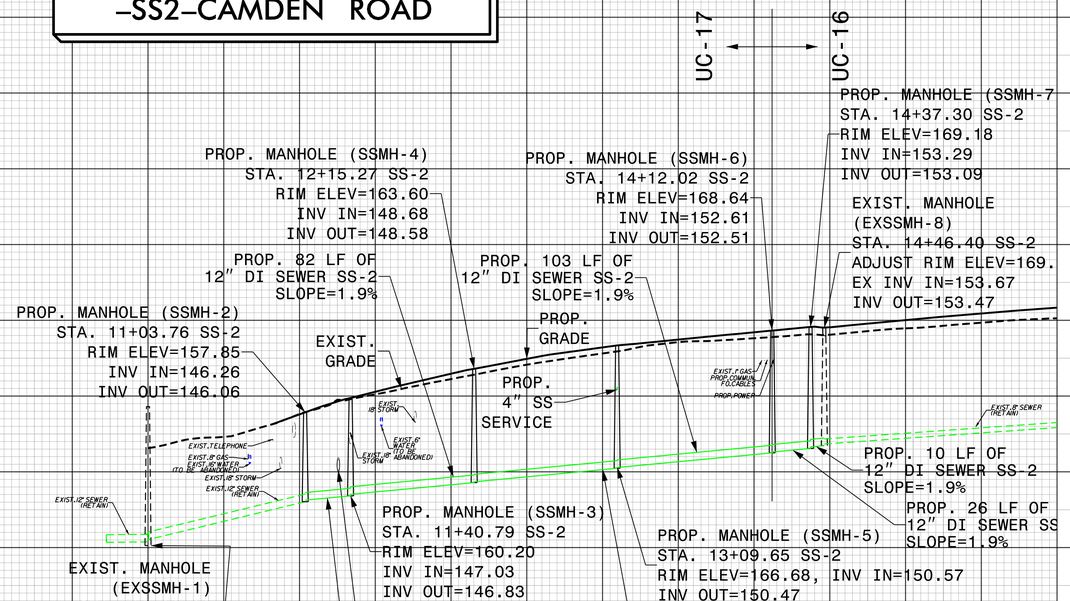
PROPOSED 8" SEWER FORCE MAIN –FSS3– SOUTH PEAK DRIVE



THE ESTIMATED QUANTITY OF DUCTILE IRON SEWER PIPE FITTINGS ON THIS PROFILE SHEET IS 440 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

SEE SHEET UC-14 FOR -FSS3- PLAN

PROPOSED 12" SEWER MAIN –SS2–CAMDEN ROAD



SEE SHEET UC-16 - UC-17 FOR -SS2- PLAN

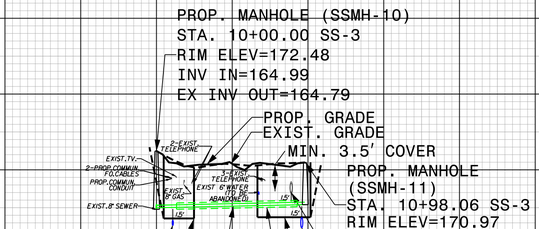
SYSTIME = 28-MAY-99 11:45
USER = HARKENRIDER
FILE = U:\proj\41.dgn

Docusign Envelope ID: 37DB0019-2995-8053-83A2-05A5BEBEC038

5/28/99

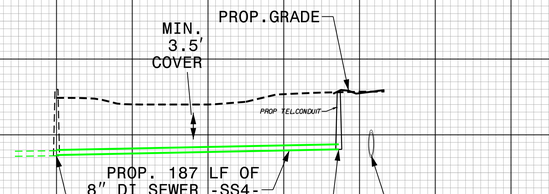
SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" SEWER MAIN –SS3– CAMDEN ROAD



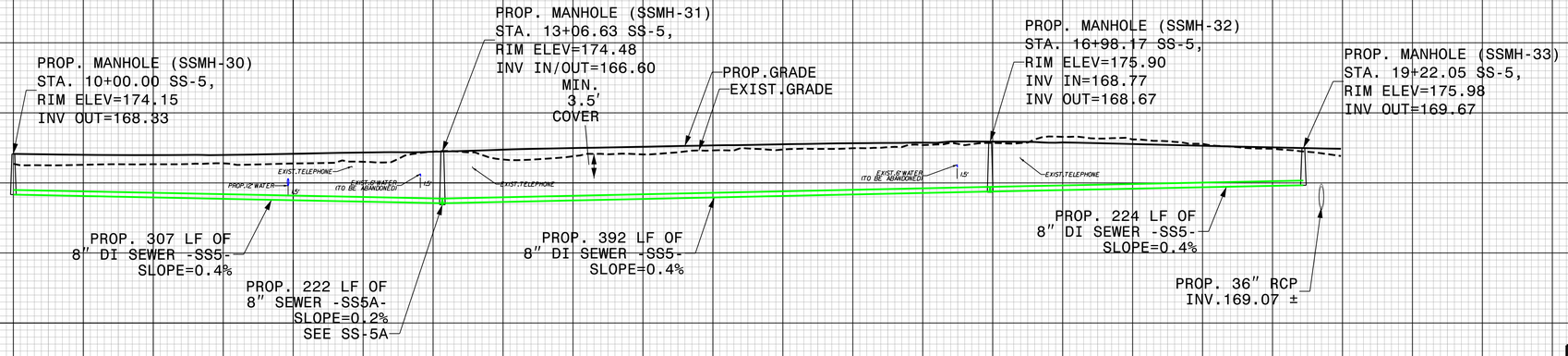
SEE SHEET UC-15 FOR -SS3- PLAN

PROPOSED 8" SEWER MAIN –SS4– NOTBLAKE AVENUE



SEE SHEET UC-19A FOR -SS4- PLAN

PROPOSED 8" SEWER GRAVITY –SS5– ROCKFISH ROAD



SEE SHEET UC-19A FOR -SS5- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-42

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035021 HEATHER HARKENRIDER
Digitally signed by Heather Harkenrider
2D3FC8117284...
8/29/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

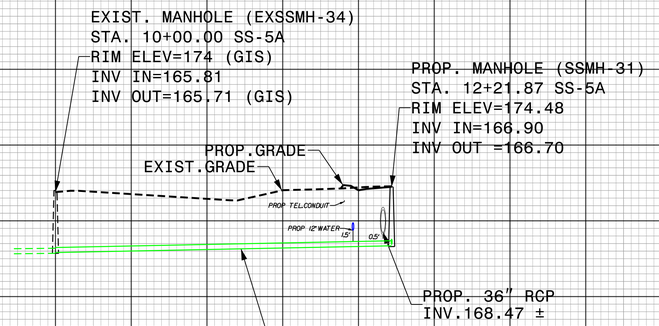
SYSTIME
-SYSTIME
I:\SE\RALPROJ\CDM\U-3422B\Utility\u3422u42.dgn
USER:HARKENRIDERHM

Docusign Envelope ID: B873BC2F-E17C-8ABE-81C5-65F4BDA6BFFC

5/28/99

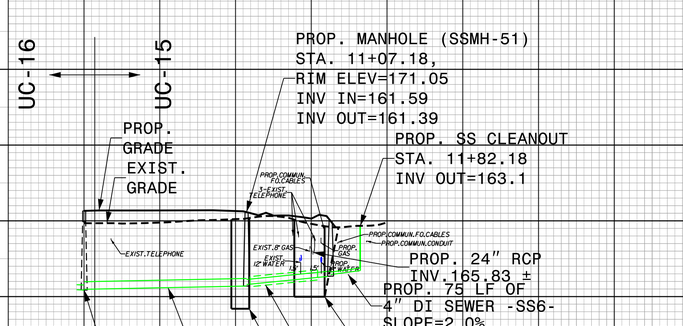
SCALE: 1"=50' (HORZ.)
1"=10' (VERT.)

PROPOSED 8" SEWER GRAVITY –SS5A– LOBONTE ROAD



SEE SHEET UC-19A FOR -SS5A- PLAN

PROPOSED 8" SEWER GRAVITY –SS6– CAMDEN ROAD



SEE SHEET UC-15 & UC-16 FOR -SS6- PLAN

PROJECT REFERENCE NO.	SHEET NO.
U-3422B	UC-43

DESIGNED BY: SSM
DRAWN BY: SSM
CHECKED BY: HMH
APPROVED BY: MAP
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA
SEAL 035021
ENGINEER
HEATHER HARKENRIDER
Digitally signed by: HEATHER HARKENRIDER
2270FC0B1728454...
9/3/2026

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CDM Smith
CDM Smith Inc.
4130 Parklake Avenue
Suite 350
Raleigh, NC 27612-4461
NC COA No. F-1255

SYSTIME
USER:HARKENRIDERHW
ii_sheet43.dgn