


ROLESVILLE CROSSING

CONSTRUCTION DOCUMENTS - PHASE 1 & 2

ROLESVILLE PROJECT # CD 21-08
1801 ROLESVILLE RD
ROLESVILLE, NORTH CAROLINA 27587



CD 21-08 REVISED / Construction Drawings -
Rolesville Crossing
APPROVED
Date: February 12, 2024
Meredith Gruber
Town of Rolesville Planning Department



OWNERS:
HC ROLESVILLE INVESTMENTS, LLC
1616 CLEVELAND AVE
CHARLOTTE, NC 28203
PH: (704) 805-4801

DEVELOPER:
HOPPER COMMUNITIES, INC
1616 CLEVELAND AVE
CHARLOTTE NC 28203
PH: (704) 805-4801

CIVIL ENGINEER:
TIMMONS GROUP
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5410 TRINITY ROAD; SUITE 102
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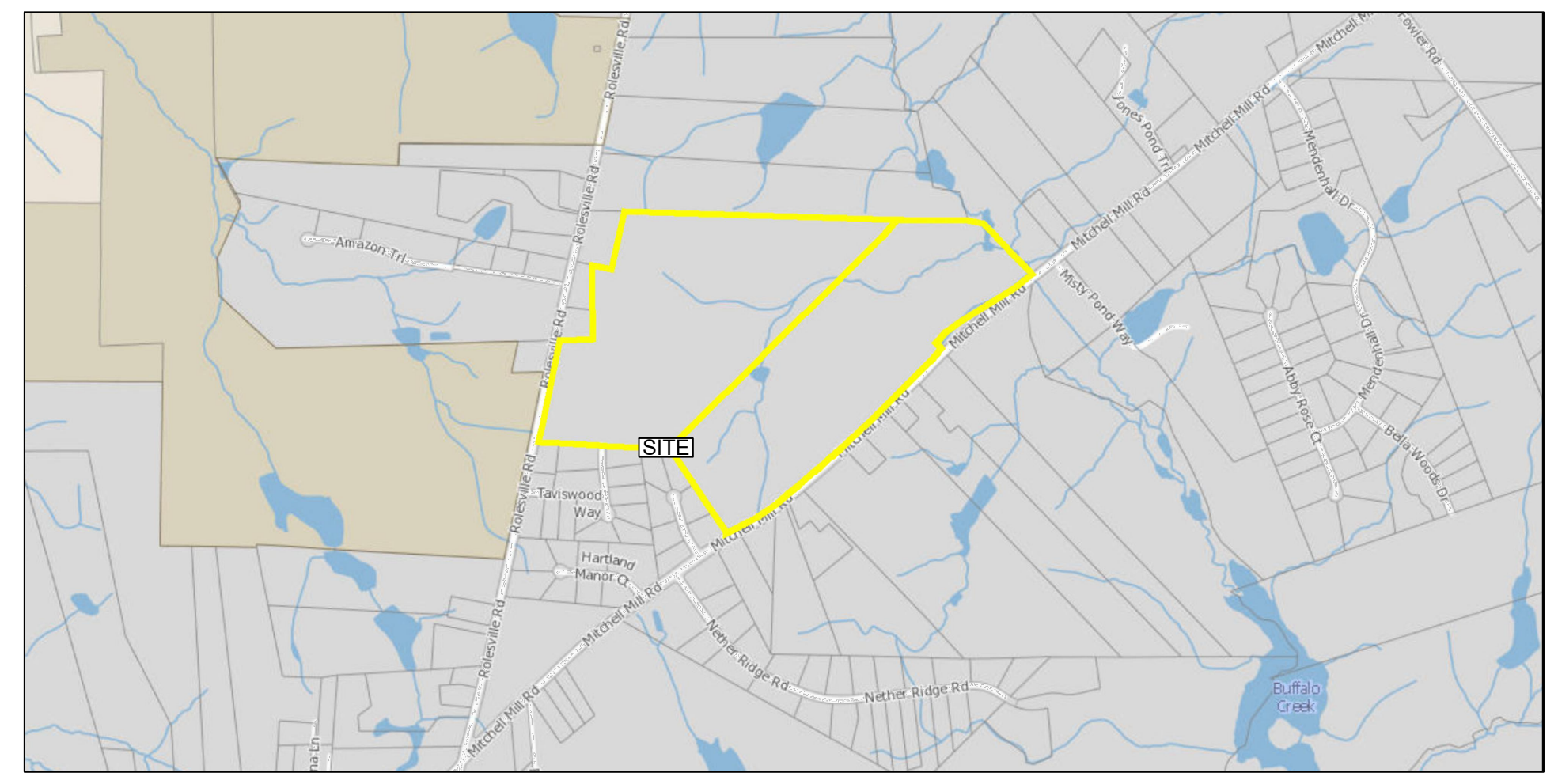
REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
CONSTRUCTION DOCUMENT SUBMITTAL	07/22/2022
REVISIONS PER NCDOT COMMENTS	04/06/2023
REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024

YOUR VISION ACHIEVED THROUGH OURS.

DATE: 09/17/2021
DRAWN BY: R. WINGATE
DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

SITE DATA TABLE

PROJECT NAME:	WHEELER TRACT
APPLICANT/ PROPERTY OWNER:	HOPPER COMMUNITIES INC. / HC ROLESVILLE, LLC
PIN(S):	1767-48-3143 (46.8 AC) 1767-58-6083 (44.59 AC)
DEED REFERENCE:	D.B. 005456 PG. 00627 D.B. 009829 PG. 00902
PLAT REFERENCE:	BM1998-01776 FORCE MAIN PLAT: BM2023 PG 1009 & 1010
PROPERTY ADDRESS:	1801 ROLESVILLE RD ROLESVILLE, NC 27587
EXISTING ZONING:	R-3-CZ
CURRENT USE:	RESIDENTIAL
PROPOSED USE:	RESIDENTIAL
UNIT COUNT:	SINGLE FAMILY: 177 TOWNHOUSE: 120
TOTAL PROJECT AREA:	91.01 AC AFTER R/W DEDICATION
PROPOSED NEW PUBLIC R/W DEDICATION:	ROLESVILLE ROAD: 1/2 OF 100' R/W MITCHELL MILL ROAD: 1/2 OF 110' PER TOWN INTERNAL ROADS: 50' AND 60' AND 63' R/W
WATERSHED:	BUFFALO CREEK
RIVER BASIN:	NEUSE
DISTURBED AREA:	TOTAL: 90.1 AC SINGLE FAMILY RESIDENTIAL: 71.2 AC TOWN HOME COMMERCIAL: 18.9 AC



VICINITY MAP
1" = 1000'

15.4.5 - STREETS

15.4.5.1
TYPE OF STREET REQUIRED
ALL SUBDIVISION LOTS SHALL ABUT AT LEAST 20 FEET ON A PUBLIC STREET. ALL PUBLIC STREETS SHALL BE DEDICATED TO THE TOWN OF ROLESVILLE. THE STATE OF NORTH CAROLINA OR THE PUBLIC AS DETERMINED APPROPRIATE BY THE BOARD OF COMMISSIONERS OF THE TOWN OF ROLESVILLE. ALL PUBLIC STREETS SHALL BE BUILT TO THE STANDARDS OF THIS ORDINANCE AND ALL OTHER APPLICABLE STANDARDS OF THE TOWN OF ROLESVILLE AND THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION. PUBLIC STREETS NOT DEDICATED TO THE TOWN WHICH ARE ELIGIBLE FOR ACCEPTANCE INTO THE STATE HIGHWAY SYSTEM SHALL BE CONSTRUCTED TO THE STANDARDS NECESSARY TO BE PUT ON THE STATE HIGHWAY SYSTEM OR THE STANDARDS IN THIS ORDINANCE, WHICHEVER IS STRICTER, IN REGARD TO EACH PARTICULAR ITEM AND SHALL BE PUT ON SUCH SYSTEM. STREETS NOT DEDICATED TO THE TOWN WHICH ARE NOT ELIGIBLE TO BE PUT ON THE STATE HIGHWAY SYSTEM BECAUSE THERE ARE TOO FEW LOTS OR RESIDENCES SHALL, NEVERTHELESS, BE DEDICATED TO THE PUBLIC AND SHALL BE IN ACCORDANCE WITH THE STANDARDS IN THIS ORDINANCE OR THE STANDARDS NECESSARY TO BE PUT ON THE STATE HIGHWAY SYSTEM, WHICHEVER IS STRICTER IN REGARD TO EACH PARTICULAR ITEM, SO AS TO BE ELIGIBLE TO BE PUT ON THE SYSTEM AT A LATER DATE. A WRITTEN MAINTENANCE AGREEMENT WITH PROVISIONS FOR MAINTENANCE OF THE STREET UNTIL IT IS PUT ON THE STATE SYSTEM SHALL BE INCLUDED WITH THE FINAL PLAT.

15.4.5.2
SUBDIVISION STREET DISCLOSURE STATEMENT
ALL STREETS SHOWN ON THE FINAL PLAT SHALL BE DESIGNATED IN ACCORDANCE WITH G.S. § 136-102.6 AND DESIGNATION AS PUBLIC SHALL BE CONCLUSIVELY PRESUMED AN OFFER OF DEDICATION TO THE PUBLIC. WHERE STREETS ARE DEDICATED TO THE PUBLIC BUT NOT ACCEPTED INTO A MUNICIPAL OR THE STATE SYSTEM, BEFORE LOTS ARE SOLD, A STATEMENT EXPLAINING THE STATUS OF THE STREET SHALL BE INCLUDED WITH THE FINAL PLAT.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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

City of Raleigh Development Approval

Raleigh Water Review Officer

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL S-EC-069098-2021
STORMWATER MGMT. S-WF-069095-2021 & SWF-069096-2021
FLOOD STUDY S-
DATE: _____
ENVIRONMENTAL CONSULTANT SIGNATURE

Sheet List Table

Sheet Number	Sheet Title
CVR	COVER PAGE
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C1.0	OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN
C1.1	EXISTING CONDITIONS AND DEMOLITION PLAN
C1.2	EXISTING CONDITIONS AND DEMOLITION PLAN
C1.3	EXISTING CONDITIONS AND DEMOLITION PLAN
C1.4	EXISTING CONDITIONS AND DEMOLITION PLAN
C1.5	ANNEXATION PLAT
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C2.10	ROAD 1 PLAN & PROFILE
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C2.15	ROAD 3 PLAN & PROFILE
C2.16	ROAD 3 PLAN & PROFILE
C2.17	ROADS 3 AND 7 PLAN & PROFILE
C2.18	ROAD 3 PLAN & PROFILE
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C2.20	ROADS 4 AND 5 PLAN & PROFILE

C2.21	ROAD 6 PLAN & PROFILE
C2.22	ROAD 8 PLAN & PROFILE
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C2.24	ROAD 10 PLAN & PROFILE
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C2.28	PAVEMENT MARKING & SIGNAGE PLAN
C2.29	PAVEMENT MARKING & SIGNAGE PLAN
C3.0	OVERALL GRADING AND DRAINAGE PLAN
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C3.5	STORM SEWER TABLES
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C3.7	STORM SEWER TABLES
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C4.10	EROSION CONTROL-STAGE 2

C4.11	EROSION CONTROL-STAGE 2
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C8.5	SCM NOTES & DETAILS
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L1.6	LANDSCAPE PLAN
L1.7	LANDSCAPE PLAN
L1.8	LANDSCAPE PLAN
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R8.05	MITCHELL MILL ROAD CROSS SECTIONS
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PS-103	PUMP STATION DETAILS
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PS-106	PUMP STATION DETAILS
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CUL-DE-SACS

CUL-DE-SACS SHALL NOT EXCEED 250 FEET IN LENGTH FROM THE NEAREST INTERSECTION. CUL-DE-SAC LENGTHS LONGER THAN 250 FEET WILL BE REVIEWED FOR APPROVAL ON A CASE-BY-CASE BASIS. AS SUCH, THE BOARD HAS APPROVED AVERY DRIVE, CARTERET DRIVE, AND DAVIE DRIVE AS THESE CUL-DE-SAC STREETS EXCEED 250' IN LENGTH.

ATTENTION CONTRACTORS
The Construction Contractor responsible for the extension of water, sewer, and/or gas, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstatement of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

Public Water Distribution / Extension System
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # **W-4081**
Authorization to Construct *See digital signature.*

Public Sewer Collection / Extension System
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # **S-5396**
Authorization to Construct *See digital signature.*

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
COVER PAGE

JOB NO.	43398
SHEET NO.	CVR

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KNOW WHAT'S BELOW.
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HOPPER COMMUNITIES

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Exhibit D
Conditional Zoning District Zoning Conditions

- The total number of dwelling units on the subject property shall not exceed 297 dwelling units and not more than 120 of these dwelling units are permitted to be townhomes. No apartments (multi-family units) shall be permitted.
- A twenty feet (20') wide Type A landscape buffer shall be installed along the subject property's frontage on Rolesville Road and along Mitchell Mill Road. The buffer shall be maintained by the Homeowners Association for the proposed subdivision.
- Sidewalk meeting town standards shall be installed along the subject property's frontage along Mitchell Mill Road at the same time road improvement are being installed on Mitchell Mill Road pursuant to Condition 5 below. The sidewalk shall be dedicated to and maintained by the Town of Rolesville.
- Recreational Amenities: The following recreational amenities shall be provided generally as shown on the attached Exhibit 1 as a part of the development of the subject property and dedicated to and maintained by the Homeowners Association for the proposed subdivision except for the public greenway which shall be dedicated as such to the Town of Rolesville:
 - A swimming pool and cabana, including changing rooms and restrooms shall be constructed prior to the issuance of the 150th building permit;
 - At least one fenced playground shall be constructed prior to the issuance of the 150th building permit;

- At least one fenced dog park shall be constructed prior to the issuance of the 150th building permit;
 - Public greenway on a greenway easement at least 25' wide with paved trails at least ten feet wide (10') shall be constructed generally as shown on the attached Exhibit 1 and dedicated to the Town of Rolesville; and
 - A private Multi-purpose Trail at least ten feet (10') shall be provided generally as shown on the attached Exhibit 1 and dedicated to and maintained by the Homeowners Association for the proposed subdivision.
5. Transportation Improvements: To address transportation impacts reasonably expected to be generated by the development, the following road improvements shall be installed as recommended by the Traffic Impact Analysis for the Wheeler Tract, prepared by Runey Kemp & Associates and dated May 2019, a copy of which is on file with the Town of Rolesville, together with the comments made by the North Carolina Department of Transportation in their Traffic Impact Analysis Review Report dated July 26, 2019:

- Rolesville Road and Site Drive 1:**
 - Provide site access via full movement intersection with one ingress and one egress lane;
 - Provide stop control for westbound drive approach;
 - Construct a designated southbound left-turn lane with at least 100 feet of storage and appropriate deceleration and taper;
 - Provide a designated northbound right-turn lane with at least 100 feet of storage and appropriate deceleration and taper.
- Mitchell Mill and Site Drive 2:**

- Provide access via full movement intersection with one ingress lane and one egress lane;
- Provide stop control for southbound site drive approach; and
- Provide a designated eastbound left-turn lane with at least 100 feet of storage and appropriate deceleration and taper.

- Rolesville Road and Mitchell Mill Road:** prior to the issuance of a building permit for the 150th dwelling unit, the property owner shall contribute Fifty thousand Dollars (\$50,000.00) to the Town of Rolesville to be used by the Town of Rolesville to install a traffic light at the intersection of Mitchell Mill and Rolesville Road.

- No Extension of Taviston Court:** In addition, the Board of Commissioners has determined that the extension of Taviston Court, including the dedication or preservation of right-of-way for a future extension of Taviston Court, into the subject property is undesirable, does not serve the public interest and shall be prohibited.

Conditions Applicable to single-family homes only:

- All homes shall include either crawl space foundations or stem wall foundations. Any stem wall foundations shall have a brick or stone veneer on all sides facing a public street.
- The minimum square footage for two-story homes shall be 2,200 square feet. The minimum square footage for one-story homes shall be 1,600 square feet.
- A twenty-five foot (25') wide Type A landscape buffer shall be installed adjacent the properties to the north currently owned by Dwight and Carolyn Woodfield and more particularly described as Lot 6 on

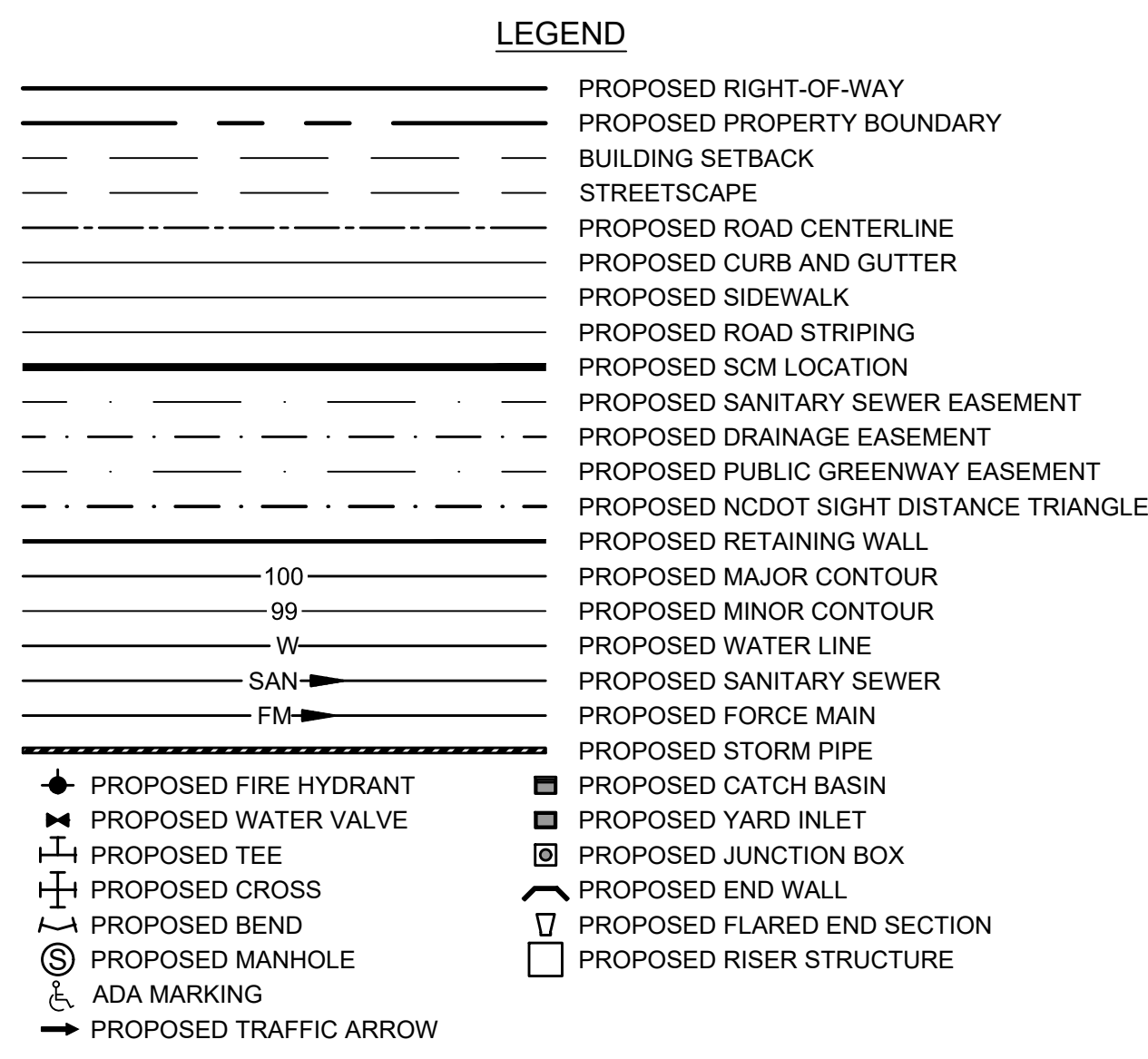
Book Maps 2011, Page 84, Wake County Registry (Wake County PIN 1767 58 09384.) This buffer shall be located within an easement that may be a part of a residential lot. The buffer shall be maintained by the Homeowners Association for the proposed subdivision.

9. A twenty foot (20') wide Type A landscape buffer shall be installed along the common boundary line with the following properties. This buffer shall be located within an easement that may be a part of a residential lot. The buffer shall be maintained by the Homeowners Association for the proposed subdivision.

- 1809 Rolesville Road, Wake Forest, Wake County PIN # 1767375272, Book 12777, Page 1559;
- 3813 Taviston Court, Wake Forest, Wake County PIN # 1767377282, Book 12779, Page 2611;
- 3820 Taviston Court, Wake Forest, Wake County PIN # 1767407083, Book 12687, Page 672;
- 3813 Arbor Rose Lane, Wake Forest, Wake County PIN # 1767472196, Book 9496, Page 2630;
- 3816 Arbor Rose Lane, Wake Forest, Wake County PIN # 1767474134, Book 16324, Page 1810;
- 3812 Arbor Rose Lane, Wake Forest, Wake County PIN # 1767465953, Book 11390, Page 1138;
- 3804 Arbor Rose Lane, Wake Forest, Wake County PIN # 1767466746, Book 13227, Page 1152;
- 1725 Rolesville Road, Wake Forest, Wake County, PIN # 1767 38 7170, Book 17107, Page 582;
- 1727 Rolesville Road, Wake Forest, Wake County, PIN # 1767 38 8313; Book 3750, Page 591; and
- 1709 Rolesville Road, Wake Forest, Wake County, PIN # 1767 38 9615; Book 4572, Page 246.

Conditions Applicable to townhomes only:

- No townhome building shall exceed six (6) units.
- The minimum square footage for townhomes shall be 1,200 square feet.



PARKING SUMMARY

REQUIRED PARKING		
SINGLE FAMILY UNITS	2 SPACES PER DWELLING UNIT	
TOWNHOMES	2 SPACES PER DWELLING UNIT PLUS 1/2 PER BEDROOM OVER TWO BEDROOMS PLUS 1 VISITOR SPACE FOR EACH 4 FOUR DWELLING UNITS	
	PHASE 1	PHASE 2
SINGLE FAMILY UNITS	72 UNITS X 2 SPACES = 144 SPACES	105 UNITS X 2 SPACES = 210 SPACES
TOWNHOMES (3-BEDROOM)	49 UNITS (INCL. 18 END UNITS) X 2.5 SPACES = 123 SPACES	71 UNITS (INCL. 28 END UNITS) X 2 SPACES = 142 SPACES
VISITOR PARKING	49 UNITS / 4 = 13 SPACES	71 UNITS / 4 = 18 SPACES
MAIL KIOSK PARKING	7	5
TOTAL SPACES REQUIRED	287 SPACES	375 SPACES

PROVIDED PARKING		
GARAGE PARKING	121	176
SINGLE FAMILY	72 UNITS X 1 SPACE = 72 SPACES	105 UNITS X 1 SPACE = 105 SPACES
TOWNHOMES	49 UNITS X 1 SPACE = 49 SPACES	71 UNITS X 1 SPACE = 71 SPACES
DRIVEWAY PARKING	121	176
SINGLE FAMILY	72 UNITS X 1 SPACE = 72 SPACES	105 UNITS X 1 SPACE = 105 SPACES
TOWNHOMES	49 UNITS X 1 SPACE = 49 SPACES	71 UNITS X 1 SPACE = 71 SPACES
PARKING LOT SPACES (PROVIDED TO SERVE MAIL KIOSKS AND VISITOR SPOTS)	45	64
TOTAL PROVIDED PARKING	287 SPACES	416 SPACES

OPEN SPACE CALCULATIONS

PHASE	AREA (AC)	REQUIRED 10% GROSS AREA	PROVIDED
		TOTAL (ACTIVE) (AC)	TOTAL (ACTIVE) (AC)
PHASE 1	40.34	4.03 (2.02)	6.53 (2.08)
PHASE 2	50.67	5.07 (2.53)	8.14 (2.79)
TOTAL	91.01		14.67 (4.87)

PUBLIC IMPROVEMENT QUANTITY TABLE

PHASE	1	2
NUMBER OF LOT(S)	297	
LOT NUMBER(S) BY PHASE	1-60, 126-129, 170-185, 194-216, 280-297	61-125, 130-169, 186-193, 217-279
NUMBER OF SINGLE FAMILY UNITS	72	105
NUMBER OF TOWNHOME UNITS	49	71
LIVABLE BUILDINGS	121	176
OPEN SPACE?	YES	YES
NUMBER OF OPEN SPACE LOTS (AC)	5 (6.53)	14 (8.14)
PUBLIC WATER (LF)	5,860	6,610
PUBLIC SEWER (LF)	5,420	6,760
PUBLIC FORCEMAIN (LF)	4,600	0
PUBLIC STREET (LF) - FULL	5,670	6,930
PUBLIC STREET (LF) - PARTIAL	2,830	0
PUBLIC SIDEWALK (LF)	10,550	13,365
NUMBER OF STREET SIGNS	21	12
WATER SERVICE STUBS	123	176
SEWER SERVICE STUBS	122	176

MAIL KIOSK CALCULATIONS

NUMBER OF MAIL BOXES (UNITS)	REQUIRED PARKING SPACES
52 OR LESS	2
53-78	3
79-104	4
105 OR MORE	4 PLUS 1 PER EACH ADDITIONAL 26 MAIL BOXES
MAIL KIOSK AREA 1 (LOTS 1-177)	
MINIMUM REQUIRED PARKING SPACES:	4 + 1 x (177-105) / 26 = 6.77 SPACES TOTAL REQUIRED: 7 SPACES (1 ADA SPACE)
MAIL KIOSK AREA 2 (LOTS 178-297)	
MINIMUM REQUIRED PARKING SPACES:	4 + 1 x (120-105) / 26 = 4.58 SPACES TOTAL REQUIRED: 5 SPACES (1 ADA SPACE)

STORMWATER SITE DATA

IMPERVIOUS BREAKDOWN FOR LOTS				
	# OF LOTS	MAX. IMPERVIOUS ALLOWANCE (SF)	TOTAL IMPERVIOUS (SF)	TOTAL IMPERVIOUS (AC)
22' TOWNHOME	120	1,600	192,000	4.41
SHALLOW LOT	86	3,600	309,600	7.11
DEEP LOT	91	3,600	327,600	7.52
TOTAL UNITS	297	-	829,200	19.04
IMPERVIOUS BREAKDOWN FOR TOTAL SITE				
	AREA (SF)	AREA (AC)		
LOTS	829,200	19.04		
CLUBHOUSE	9,828	0.23		
ONSITE SIDEWALK	154,105	3.54		
ONSITE ROAD	413,326	9.49		
TOTAL IMPERVIOUS	1,406,459	32.30		

SITE DATA TABLE

PROJECT NAME:	ROLESVILLE CROSSING
APPLICANT:	HOPPER COMMUNITIES
PIN(S):	1767-48-3143 1767-58-6083
DEED REFERENCE:	D.B. 005456 PG. 00627 D.B. 009828 PG. 00902
PLAT REFERENCE:	BM1998-01776
PROPERTY ADDRESS:	1801 ROLESVILLE RD ROLESVILLE, NC 27587
EXISTING ZONING:	R-30 (WAKE COUNTY)
PROPOSED ZONING:	R-3-CZ
CURRENT USE:	RESIDENTIAL
PROPOSED USE:	RESIDENTIAL
UNIT COUNT:	SINGLE FAMILY: 177 TOWNHOUSE: 120
TOTAL PROJECT AREA:	91.39 AC
TOTAL DISTURBED AREA:	90.1 AC
TOWNHOUSE AREA (DENSITY):	15.00 ACRES (8.0 DU/AC)
SINGLE FAMILY AREA (DENSITY):	76.39 ACRES (2.32 DU/AC)
PROPOSED NEW PUBLIC R/W DEDICATION	ROLESVILLE ROAD: 20' R/W (50' FROM CENTER LINE) MITCHELL MILL ROAD: 25' DEDICATION (55' FROM CENTER LINE) INTERNAL ROADS: 50' AND 60' R/W
PROJECT AREA AFTER R/W DEDICATION	91.01 AC
RIVER BASIN:	NEUSE
SURFACE WATER CLASSIFICATION:	C, NSW
WATERSHED:	BUFFALO CREEK
BUILDING SETBACKS (SINGLE FAMILY, DETACHED RESIDENTIAL):	FRONT: 25' CORNER: 15' SIDE: 10' SIDE STREET: 15' REAR: 25' LOT WIDTH: 65' MINIMUM LOT AREA: 6,000 SF
BUILDING SETBACKS (TOWNHOUSES):	FRONT: 15' (20' FOR SINGLE CAR GARAGE) CORNER: 10' SIDE: 0' WITH 30' MINIMUM BETWEEN STRUCTURES REAR: 15' LOT WIDTH: 20'



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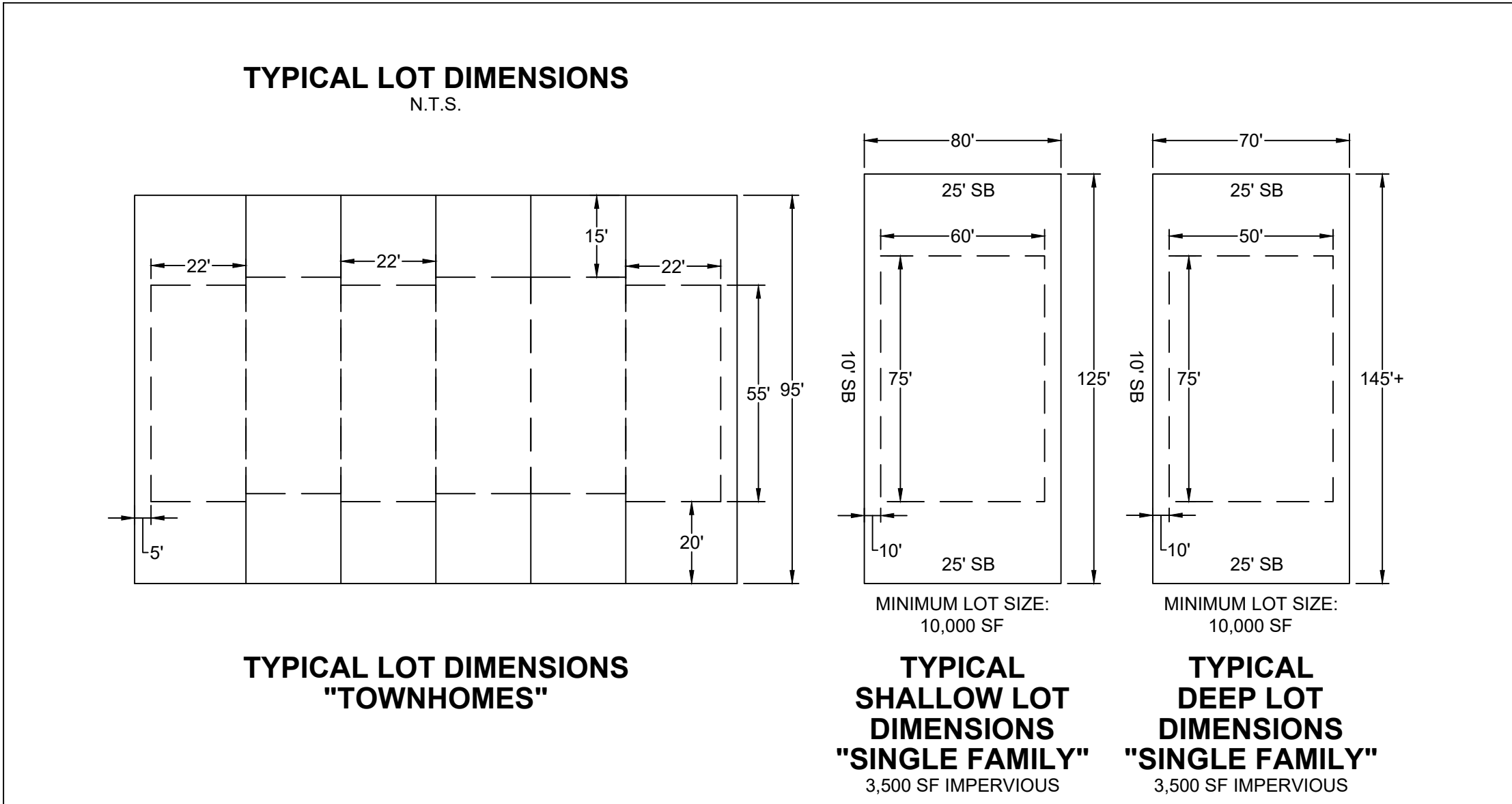
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DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

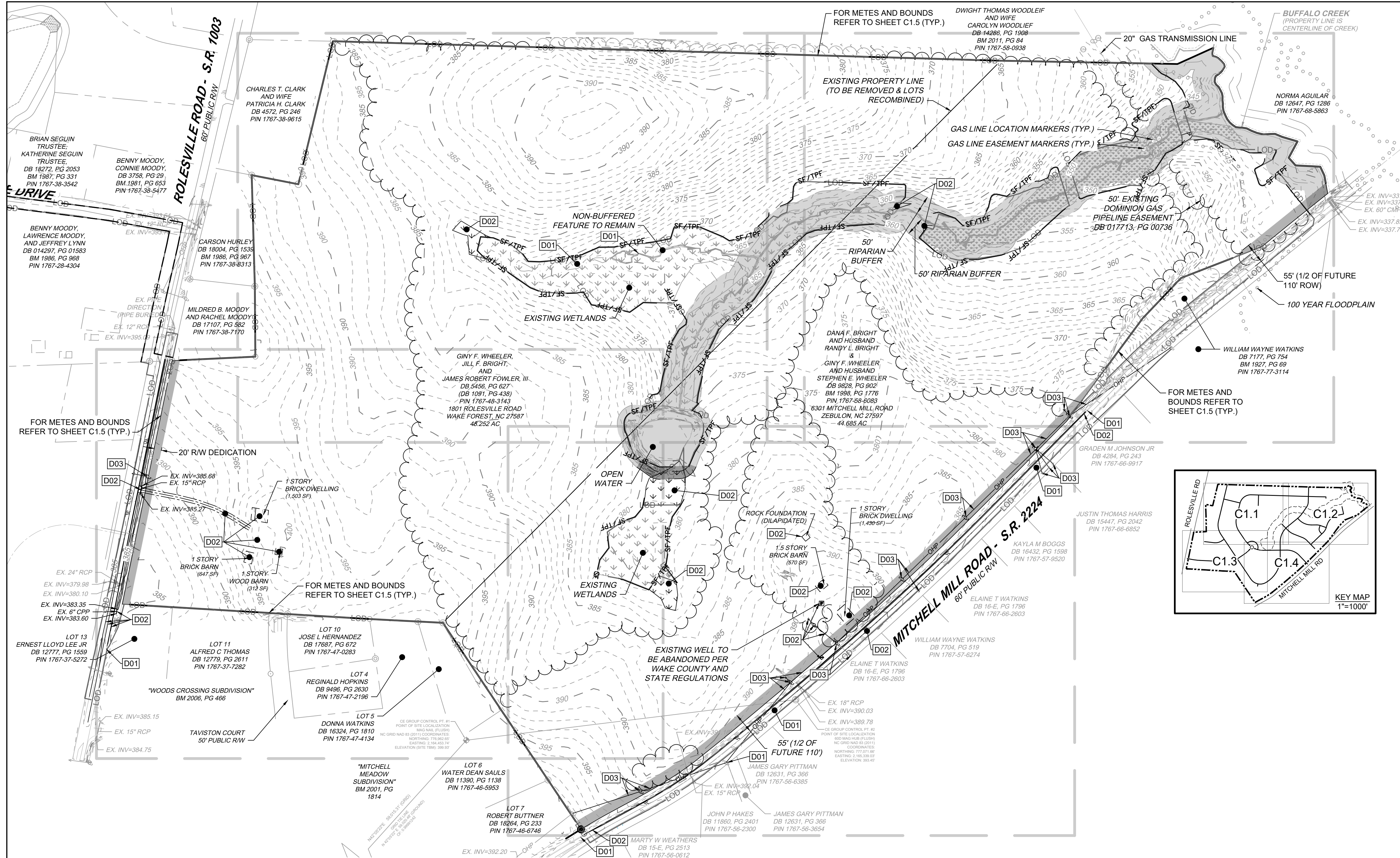
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

PROJECT NOTES AND SITE DETAILS

JOB NO. 43398
SHEET NO. C0.0



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



- ### SURVEY NOTES
- ON SITE BOUNDARY INFORMATION IS TAKEN FROM A SURVEY BY TIMMONS GROUP DATED 08/19/2019. OFFSITE TOPOGRAPHY AND PLANIMETRIC INFORMATION FROM OTHER SOURCES AND HAS NOT BEEN FIELD VERIFIED BY TIMMONS GROUP. ONSITE TOPOGRAPHY RECEIVED FROM THE CE GROUP ON 01/04/2021.
 - ONSITE WETLAND LOCATION AND STREAM DELINEATION BY S&EC, PA.
 - ALL DISTANCES SHOWN ON SURVEY ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
 - THIS SURVEY DOES NOT REPRESENT A TITLE SEARCH BY THIS FIRM. BASIS OF BEARING SHOWN HEREON IS NC GRID NAD 83 (NSRS 2007).
 - VERTICAL DATUM SHOWN HEREON IS NAVD88.
 - OTHER SOURCES OF INFORMATION INCLUDE CITY OF RALEIGH GIS AND AERIAL IMAGERY.
 - NOT LOCATED IN FLOOD HAZARD AREA PER FEMA MAP #3720176600J (EFFECTIVE 05/02/2006).
 - RECORDED PROPERTY DATA:
 - DB 005456, PG 00627
 - DB 009828, PG 00902
 - EXISTING IMPERVIOUS AREA = 0.0 ACRES
 - THE UTILITIES ON THESE PLANS ARE APPROXIMATE ONLY, AND ARE NOT ACCURATE FOR CONSTRUCTION PURPOSES. FOR FIELD MARKS CALL 1-800-632-4949.
 - OFFSITE TOPOGRAPHY FROM WAKE COUNTY GIS.

DEMOLITION KEYNOTES

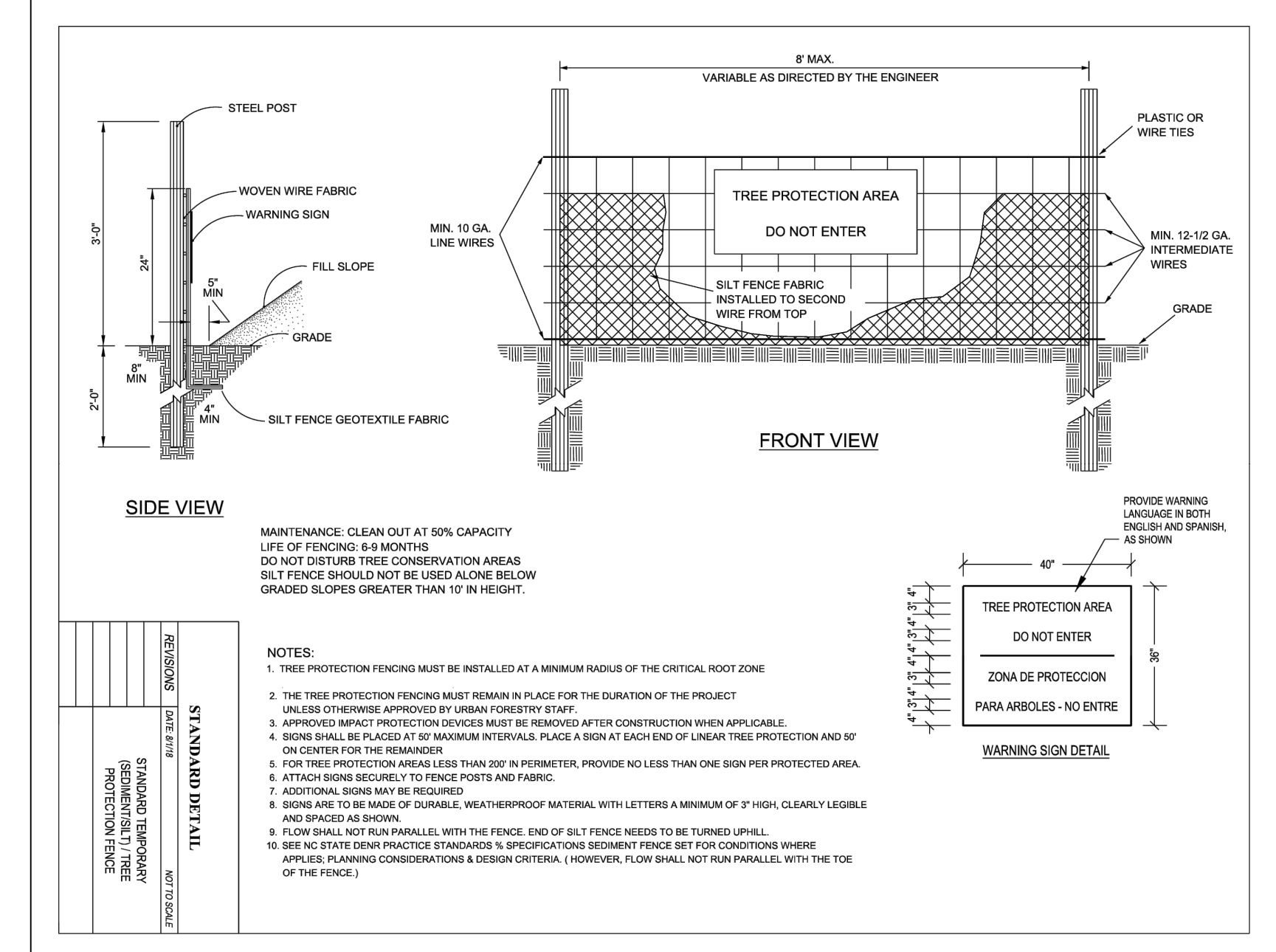
NUMBER	DESCRIPTION
D01	EXISTING FEATURE TO REMAIN.
D02	REMOVE EXISTING FEATURE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. CONTRACTOR TO COORDINATE AS NEEDED WITH LOCAL MUNICIPALITY, INSPECTORS, AND/OR UTILITY COMPANIES.
D03	RELOCATE AND MODIFY EXISTING FEATURE TO REMAIN IN SERVICE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. CONTRACTOR TO COORDINATE AS NEEDED WITH LOCAL MUNICIPALITY, INSPECTORS, AND/OR UTILITY COMPANIES.

LEGEND

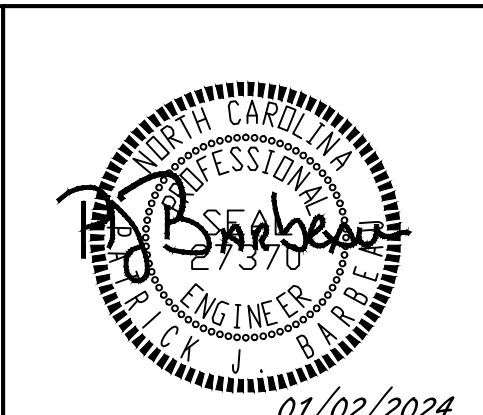
SYMBOL	DESCRIPTION
(Dashed line with circles)	100 YEAR FLOODPLAIN
(Solid line)	TREE LINE
(Dashed line with triangles)	50' RIPARIAN BUFFER
(Wavy line)	WETLANDS
(Dotted line)	LIMITS OF DISTURBANCE

- ### DEMOLITION NOTES
- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE. CONTRACTOR TO OBTAIN, REFERENCE, AND UTILIZE ALL AVAILABLE ENVIRONMENTAL REPORTS (PHASE 1 ESA, ASBESTOS, ETC.) FROM DEVELOPER.
 - ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
 - REMOVE/DEMOLISH/ABANDON AFTER EROSION CONTROL MEASURES ARE IN PLACE AN APPROVAL OF THE INSPECTOR. REFER TO EROSION CONTROL PLAN.
 - REMOVE TOPSOIL AND STOCKPILE APPROPRIATELY ON-SITE. ON-SITE TEMPORARY STOCKPILES SHALL BE LOCATED WITHIN CONSTRUCTION LIMITS.
 - DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED BY THE OWNER OR OTHERS EXCEPT WHEN PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE ACCEPTABLE TEMPORARY UTILITY SERVICES. (1) NOTIFY OWNER NOT LESS THAN ONE WEEK IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS. (2) DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT RECEIVING OWNER WRITTEN PERMISSION. (3) COORDINATE ALL UTILITY RELOCATION WITH APPROPRIATE UTILITY PROVIDER.
 - ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT WITH NEW CONSTRUCTION. ANY EXISTING PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH EXISTING CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED). UTILITY INSTALLATIONS MAY UTILIZE OPEN CUT OF PAVEMENTS UNLESS INDICATED OTHERWISE. TRENCH IN EXISTING ASPHALT SHALL BE PATCHED PER PAVEMENT REPAIR DETAIL.
 - PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGE OCCUR, NOTIFY ARCHITECT IMMEDIATELY.

- SUBSURFACE FEATURES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR IS RESPONSIBLE FOR SUBSURFACE UTILITY EXPLORATION TO DETERMINE UTILITY LOCATIONS AND DEPTHS.
- THE CONTRACTOR SHALL USE NC ONE CALL (811) TO LOCATE ALL UNDERGROUND UTILITIES.
- CONTRACTOR TO VERIFY LOCATIONS AND SIZES OF ALL EXISTING FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION. REPAIR AND REPLACE ANY DAMAGES TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING OR ABANDONING ALL EXISTING UTILITIES AND STRUCTURES REQUIRED TO COMPLETE SITE CONSTRUCTION, EITHER ONSITE OR IN PUBLIC ROW, IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- WATER AND SEWER ABANDONMENT SHALL BE DONE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS INCLUDING DISCONNECT FROM THE MAIN AND REMOVAL OF SERVICES FROM THE RIGHT-OF-WAY.
- ANY EXISTING UNIDENTIFIED SEPTIC SYSTEMS AND WELLS FOUND ON SITE SHALL BE REMOVED OR ABANDONED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AT NO CHARGE TO THE OWNER
- VERIFY ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
- CONTRACTOR SHALL COORDINATE ALL CONNECTIONS, RELOCATION AND DEMOLITION WORK WITH THE APPROPRIATE COMPANY OR JURISDICTION HAVING AUTHORITY AND SHALL OBTAIN ANY PERMITS AS REQUIRED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
- EXISTING MANHOLES, VALVE BOXES, VAULTS, CLEANOUTS, UTILITY POLES ETC. TO REMAIN WITHIN THE GRADING LIMITS SHALL BE ADJUSTED AS NEEDED TO FUNCTION PROPERLY WITH THE PROPOSED FINISHED GRADES (WHETHER OR NOT INDICATED TO BE MODIFIED).
- GENERAL CONTRACTOR TO COORDINATE ALL PEDESTRIAN ACCESS PATHS, LOCATIONS, LIGHTING ETC. WITH THE DEVELOPER.
- CONTRACTOR SHALL NOTIFY APPROPRIATE DEPARTMENTS PRIOR TO BEGINNING ANY WORK WITHIN PUBLIC RIGHT-OF-WAY.



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 DESIGNED BY P. BARBEAU
 CHECKED BY P. BARBEAU
 SCALE AS SHOWN

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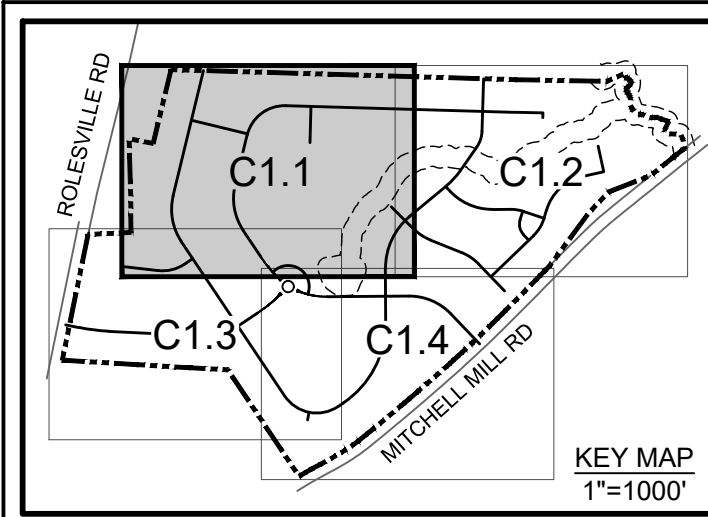
ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

OVERALL EXISTING CONDITIONS AND DEMOLITION PLAN

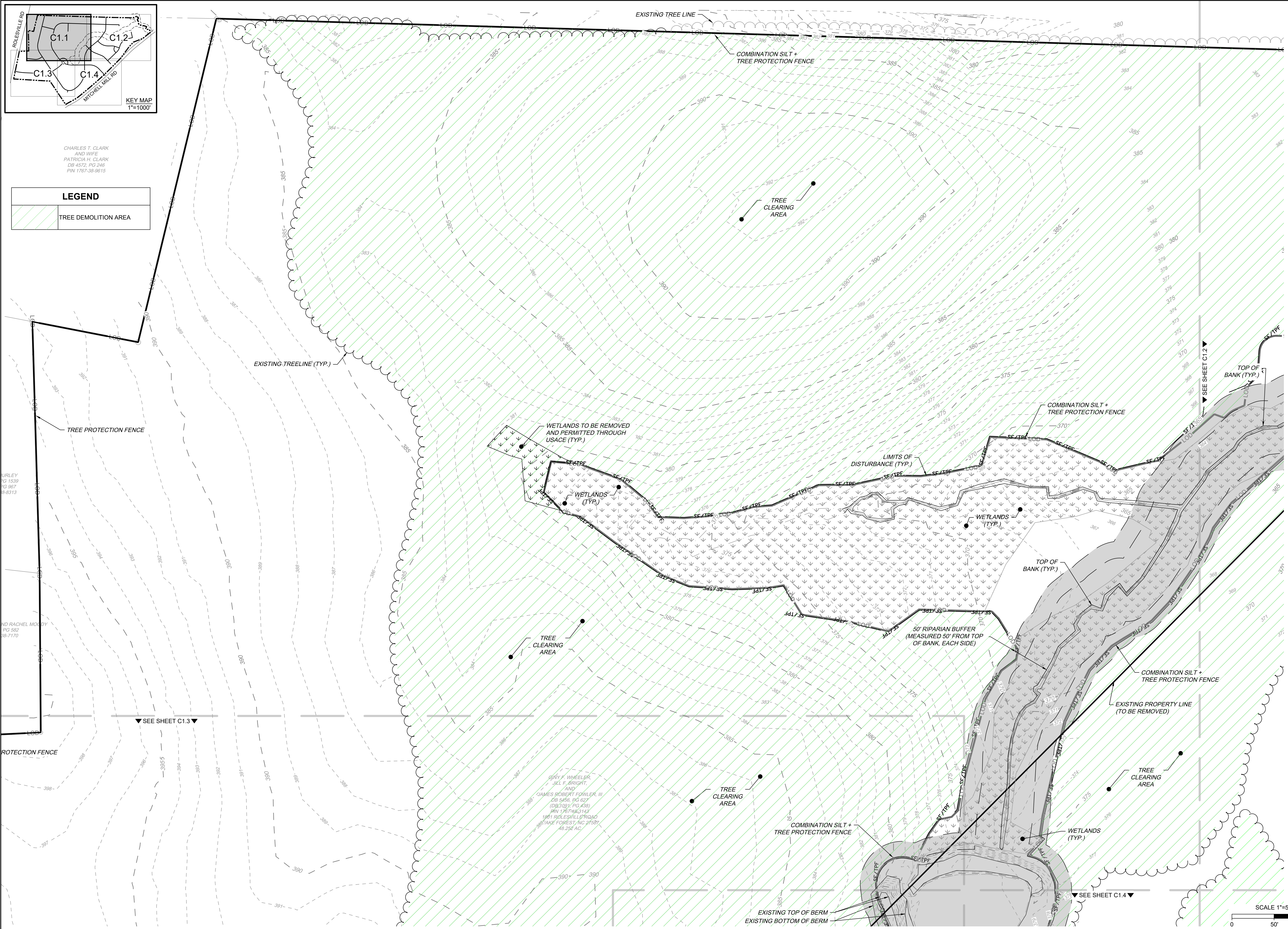
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 SHEET NO. C1.0

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CHARLES T. CLARK
AND WIFE
PATRICIA H. CLARK
DB-4572, PG 246
PIN 1767-38-9615

LEGEND	
	TREE DEMOLITION AREA



URLEY
PG 1539
PG 967
S-6313

AND RACHEL MONDY
PG 582
S-8-7170

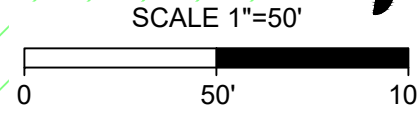
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PROTECTION FENCE

SEE SHEET C1.3

SEE SHEET C1.4

GINY F. WHEELER,
JILL F. BRIGHT,
AND
JAMES ROBERT FOWLER, III
DB 5456, PG 627
(DB 2108 V, PG 438)
PIN 1767-38-3143
1881 ROLESVILLE FERRY ROAD
WAKE FOREST, NC 27537
49.226 AC



NAD 83



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P. BARBEAU	DESIGNED BY
P. BARBEAU	CHECKED BY
AS SHOWN	SCALE

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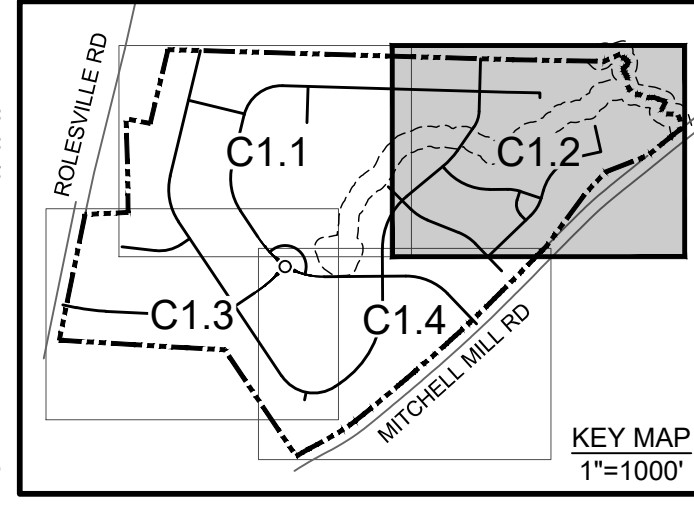
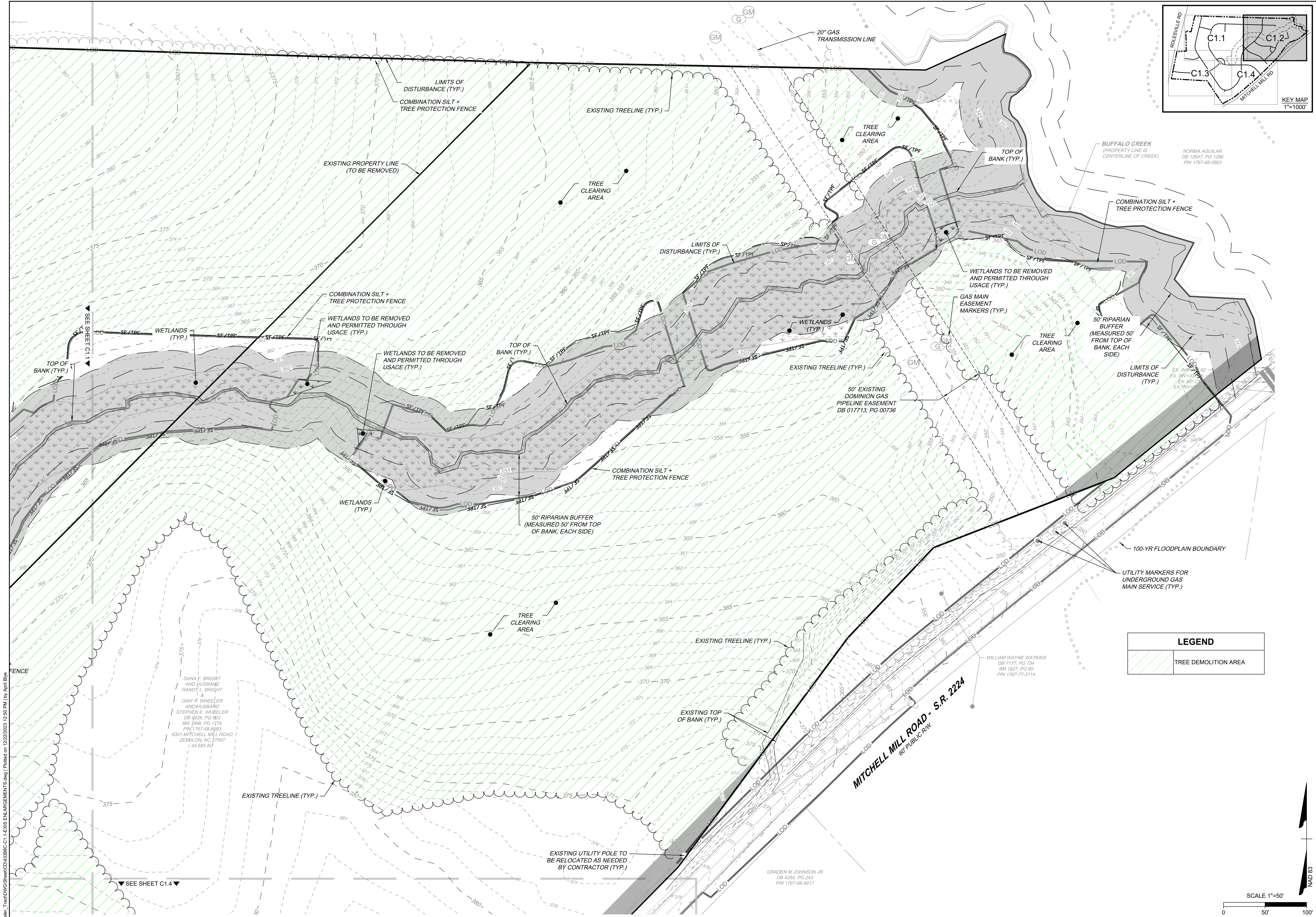
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

EXISTING CONDITIONS AND DEMOLITION PLAN

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SHEET NO.	C1.1

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 CHECKED BY: P. BARBEAU
 SCALE: AS SHOWN

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ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
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R. WINGATE

DESIGNED BY
P. BARBEAU

CHECKED BY
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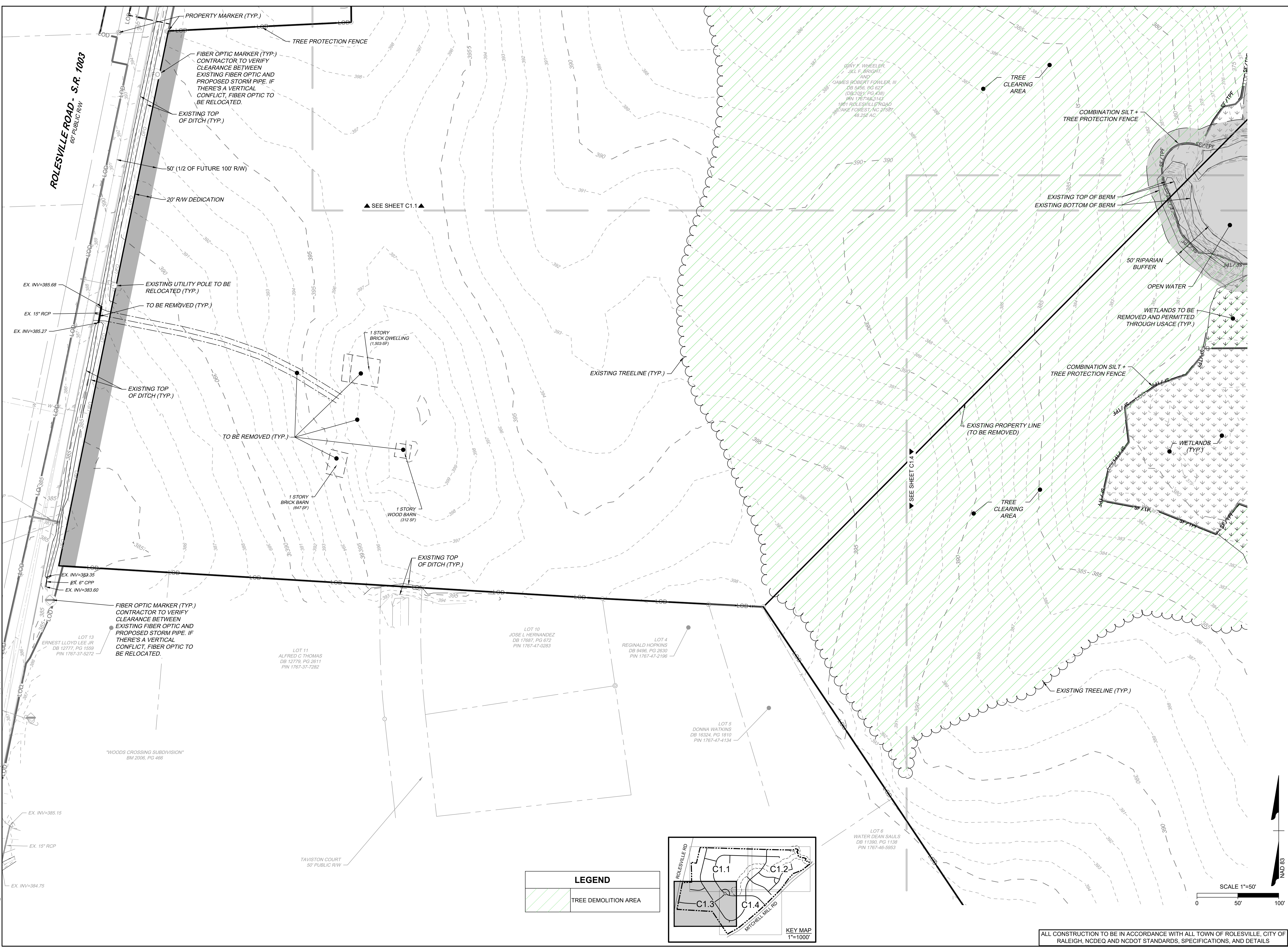
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 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
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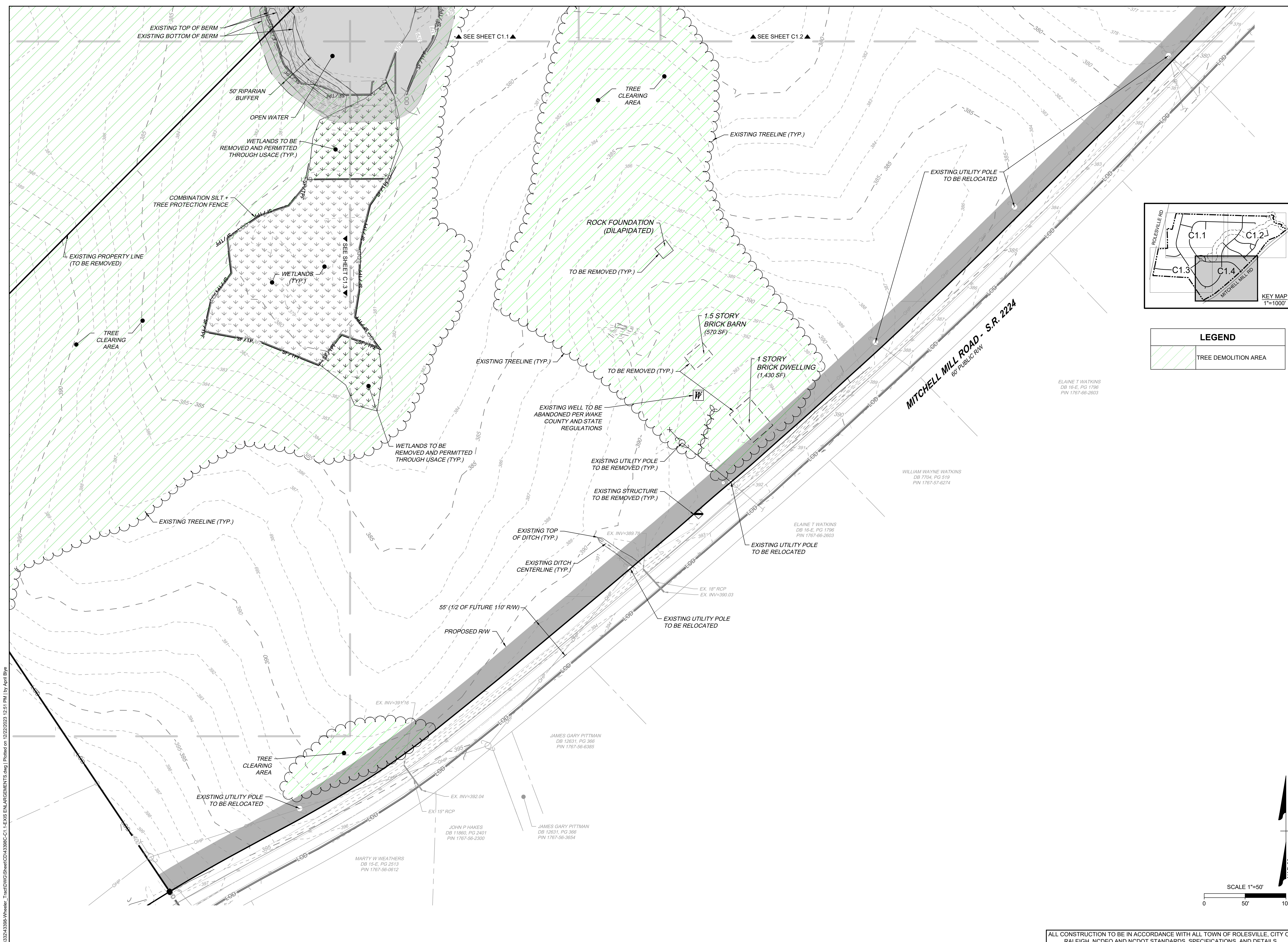
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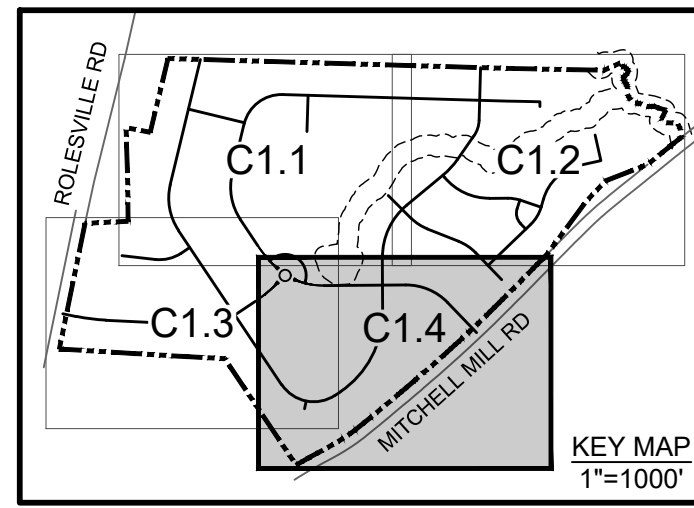
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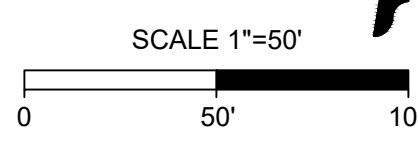
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SCALE
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LEGEND	
	TREE DEMOLITION AREA



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 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
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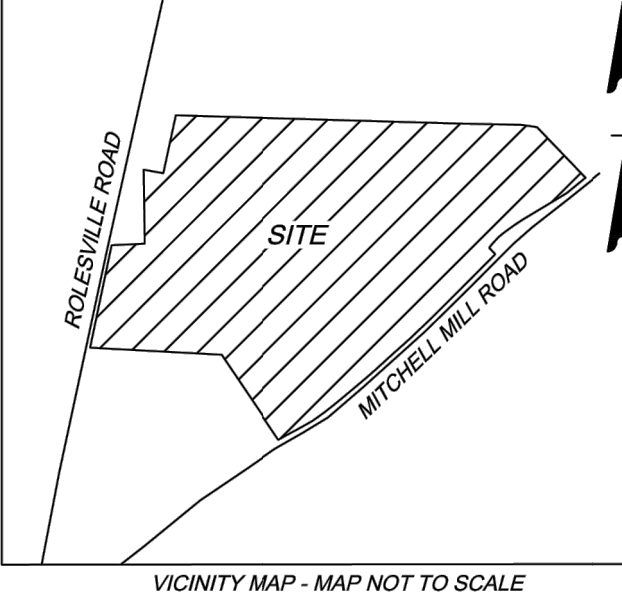
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NAD83 (2011)
NC GRID

ANNEXED AREA DESCRIPTION:
BEGINNING AT AN IRON PIPE FOUND IN THE NORTHERN 60' R/W LINE OF MITCHELL MILL RD. (SR 2224) AND HAVING NORTH CAROLINA GRID COORDINATES (NAD 83 (2011)) OF N 778.723.00 FEET; E 2.164.761.89 FEET; AND BEING A COMMON CORNER BETWEEN DANA F. BRIGHT, ET AL. (DB 9828 PG 902) AND LOT 7 OF MITCHELL MEADOW SUBDIVISION (BM 2001 PG 1814); THENCE LEAVING THE NORTHERN 60' R/W LINE OF MITCHELL MILL RD. (SR 2224) NORTH 33°49'30" WEST, 159.25 FEET TO AN IRON PIPE FOUND; THENCE NORTH 33°47'11" WEST, 508.32 FEET TO AN IRON PIPE FOUND; A COMMON CORNER BETWEEN DANA F. BRIGHT, ET AL. (DB 9828 PG 902), GINA F. WHEELER, ET AL. (DB 5458 PG 627) AND LOT 5 OF MITCHELL MEADOW SUBDIVISION (BM 2001 PG 1814); THENCE NORTH 87°22'25" WEST, 197.32 FEET TO AN IRON REBAR FOUND; THENCE NORTH 88°32'54" WEST, 688.42 FEET TO A POINT IN THE CENTER OF BUFFALO CREEK; THENCE NORTH 11°34'57" EAST, 684.53 FEET TO A POINT; THENCE NORTH 87°15'14" EAST, 254.95 FEET TO AN IRON REBAR FOUND; THENCE NORTH 00°24'42" WEST, 189.05 FEET TO AN IRON PIPE FOUND; THENCE NORTH 01°39'01" WEST, 298.96 FEET TO AN IRON PIPE FOUND; THENCE SOUTH 79°00'56" EAST, 127.90 FEET TO A POINT; THENCE NORTH 13°30'03" EAST, 395.38 FEET TO AN IRON REBAR FOUND; THENCE SOUTH 88°19'57" EAST, 1,798.49 FEET TO AN IRON REBAR FOUND; THENCE SOUTH 88°55'44" EAST, 475.00 FEET TO A POINT; THENCE THE FOLLOWING COURSES DOWN THE CENTER LINE OF BUFFALO CREEK:
THENCE NORTH 65°44'16" EAST, 102.70 FEET TO A POINT; THENCE SOUTH 18°00'04" WEST, 14.47 FEET TO A POINT; THENCE SOUTH 42°30'53" EAST, 45.95 FEET TO A POINT; THENCE SOUTH 6°51'48" WEST, 20.88 FEET TO A POINT; THENCE SOUTH 78°17'04" WEST, 26.61 FEET TO A POINT; THENCE SOUTH 19°06'03" EAST, 75.60 FEET TO A POINT; THENCE SOUTH 21°12'02" EAST, 67.30 FEET TO A POINT; THENCE SOUTH 78°17'04" EAST, 53.71 FEET TO A POINT; THENCE SOUTH 60°26'04" EAST, 61.46 FEET TO A POINT; THENCE SOUTH 70°47'08" EAST, 63.51 FEET TO A POINT; THENCE SOUTH 20°21'33" WEST, 55.83 FEET TO A POINT; THENCE SOUTH 54°55'18" EAST, 18.68 FEET TO A POINT; THENCE SOUTH 88°00'51" EAST, 67.89 FEET TO A POINT; THENCE SOUTH 25°51'48" EAST, 28.94 FEET TO A POINT; THENCE SOUTH 13°51'51" EAST, 50.19 FEET TO A POINT; THENCE SOUTH 15°15'11" EAST, 32.81 FEET TO A POINT; THENCE THE FOLLOWING COURSES DOWN THE CENTER LINE OF MITCHELL MILL ROAD (S.R. 2224) A 60 FOOT PUBLIC RIGHT-OF-WAY:
THENCE WITH A CURVE TO THE RIGHT, SAID CURVE HAS A RADIUS OF 10,151.02 FEET, WITH CHORD BEARING OF SOUTH 51°28'46" WEST, 67.90 FEET TO A POINT; THENCE WITH A CURVE TO THE RIGHT, SAID CURVE HAS A RADIUS OF 20,962.58 FEET, WITH CHORD BEARING OF SOUTH 50°55'27" WEST, 151.51 FEET TO A POINT; THENCE WITH A CURVE TO THE RIGHT, SAID CURVE HAS A RADIUS OF 9,512.05 FEET, WITH CHORD BEARING OF SOUTH 50°51'07" WEST, 393.46 FEET TO A POINT; THENCE WITH A CURVE TO THE RIGHT, SAID CURVE HAS A RADIUS OF 9,512.05 FEET, WITH CHORD BEARING OF SOUTH 45°11'08" WEST, 301.64 FEET TO A POINT; THENCE WITH A CURVE TO THE RIGHT, SAID CURVE HAS A RADIUS OF 2,299.367 FEET, WITH CHORD BEARING OF SOUTH 44°29'43" WEST, 228.79 FEET TO A POINT; THENCE WITH A CURVE TO THE LEFT, SAID CURVE HAS A RADIUS OF 18,151.18 FEET, WITH CHORD BEARING OF SOUTH 45°19'30" WEST, 278.12 FEET TO A POINT; THENCE WITH A CURVE TO THE LEFT, SAID CURVE HAS A RADIUS OF 7,283.93 FEET, WITH CHORD BEARING OF SOUTH 47°55'59" WEST, 411.59 FEET TO A POINT; THENCE WITH A CURVE TO THE LEFT, SAID CURVE HAS A RADIUS OF 14,402.54 FEET, WITH CHORD BEARING OF SOUTH 49°50'49" WEST, 332.72 FEET TO A POINT; THENCE WITH A CURVE TO THE LEFT, SAID CURVE HAS A RADIUS OF 2,123.53 FEET, WITH CHORD BEARING OF SOUTH 52°13'18" WEST, 165.22 FEET TO A POINT; THENCE WITH A CURVE TO THE LEFT, SAID CURVE HAS A RADIUS OF 1,515.57 FEET, WITH CHORD BEARING OF SOUTH 59°21'35" WEST, 147.34 FEET TO A POINT; THENCE WITH A CURVE TO THE RIGHT, SAID CURVE HAS A RADIUS OF 3,285.30 FEET, WITH CHORD BEARING OF SOUTH 61°15'45" WEST, 112.29 FEET TO A POINT; THENCE WITH A CURVE TO THE RIGHT, SAID CURVE HAS A RADIUS OF 2,086.81 FEET, WITH CHORD BEARING OF SOUTH 59°23'07" WEST, 37.74 FEET TO A POINT; THENCE NORTH 33°49'30" WEST, 30.36 FEET TO THE POINT OF BEGINNING.
CONTAINING 95.362 ACRES, MORE OR LESS.

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C1	10181.34'	80.68'	40.34'	0°27'15"	S51°30'53"W	80.68'
C2	20992.91'	146.94'	73.47'	0°24'04"	S50°55'51"W	146.94'
C3	2299367.52'	226.56'	113.28'	0°00'20"	S44°29'43"W	226.56'
C4	18120.85'	278.40'	139.20'	0°52'49"	S45°19'30"W	278.40'
C5	7253.61'	409.88'	204.99'	3°14'15"	S47°56'03"W	409.82'
C6	14372.21'	332.26'	166.14'	1°19'28"	S49°50'50"W	332.25'
C7	2093.21'	162.48'	81.28'	4°26'51"	S52°12'44"W	162.44'
C8	1485.25'	143.85'	71.98'	5°32'58"	S59°22'11"W	143.80'
C9	3315.62'	118.47'	59.24'	2°02'50"	S61°15'40"W	118.46'
C10	2696.93'	39.78'	19.89'	0°50'42"	S59°22'14"W	39.78'

- SURVEY NOTES:**
- PER THE FEMA FLOODPLAIN MAPS, THE PROPERTY IS LOCATED IN AN AREA DESIGNATED AS ZONE X, PER FIRM MAP NO. 3720176600J PANEL 1766, EFFECTIVE DATE MAY 2, 2006.
 - HORIZONTAL CONTROL IS BASED ON NC STATE GRID, NAD83 (2011) AS DETERMINED BY GPS. ALL DISTANCES SHOWN ARE GROUND DISTANCES.
 - NOT ALL IMPROVEMENTS LOCATED ON THE PROPERTY HAVE BEEN SHOWN.
 - AREA COMPUTATION IS BY THE COORDINATE METHOD.
 - THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A TITLE SEARCH.
 - RIGHT-OF-WAY AND PROPERTY BOUNDARY INFORMATION IS BASED ON REFERENCES AS SHOWN HEREON.



DWIGHT THOMAS WOODLIEF
AND WIFE
CAROLYN WOODLIEF
DB 14286, PG 1908
BM 2011, PG 84
PIN 1767-58-0938
ZONING: R-30

NORMA AGUILAR
DB 12647, PG 1286
PIN 1767-58-5863
ZONING: R-30

CHARLES T. CLARK
AND WIFE
PATRICIA H. CLARK
DB 4572, PG 246
PIN 1767-38-9615
ZONING: R-30

ELMO R. MOODY
DB 3750, PG 591
BM 1986, PG 967
PIN 1767-38-8313
ZONING: R-30

MILDRED B. MOODY
DB 17107, PG 582
PIN 1767-38-7170
ZONING: R-30

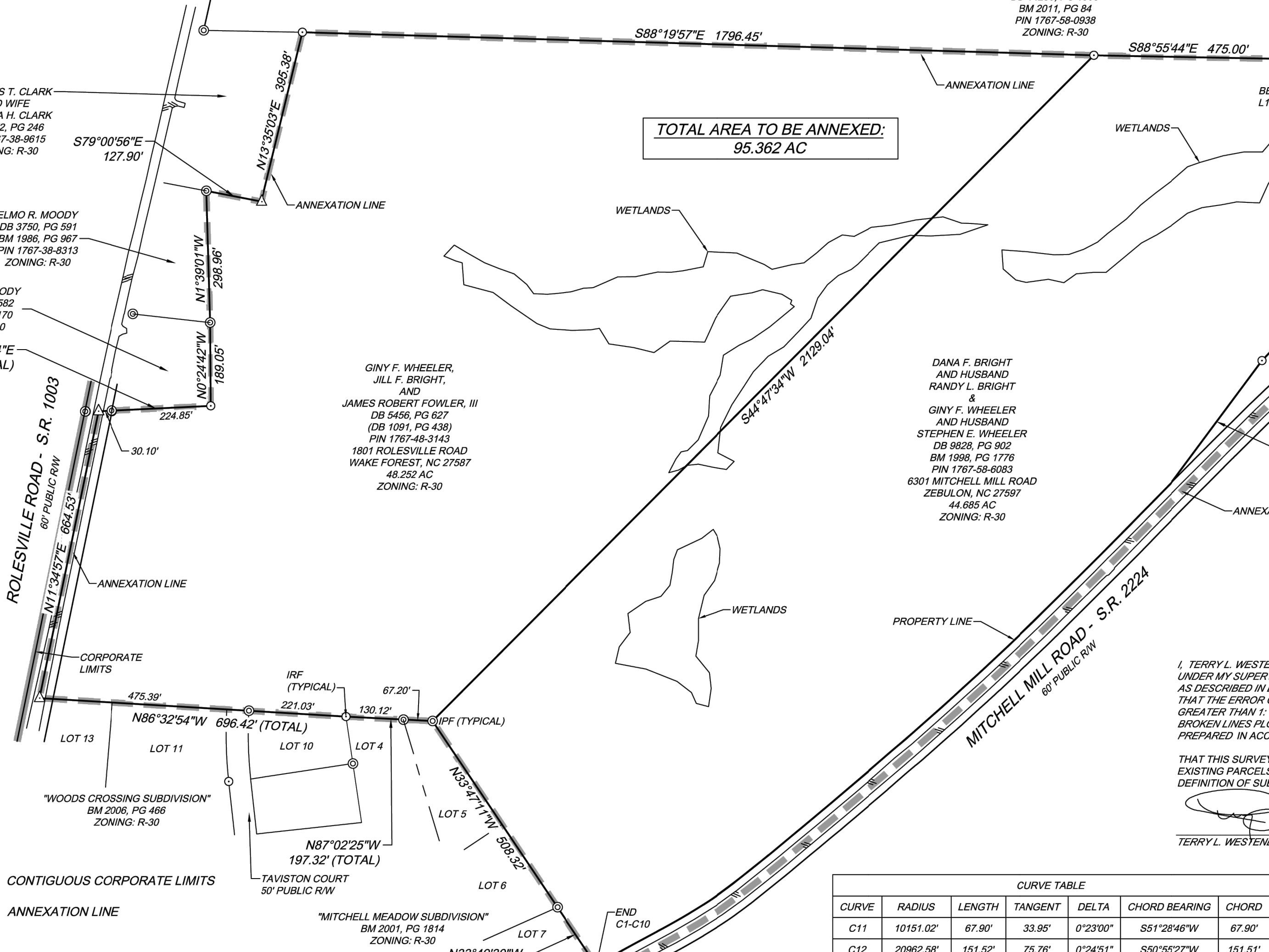
GINY F. WHEELER,
JILL F. BRIGHT,
AND
JAMES ROBERT FOWLER, III
DB 5456, PG 627
(DB 1091, PG 438)
PIN 1767-48-3143
1801 ROLESVILLE ROAD
WAKE FOREST, NC 27587
48.252 AC
ZONING: R-30

DANA F. BRIGHT
AND HUSBAND
RANDY L. BRIGHT
&
GINY F. WHEELER
AND HUSBAND
STEPHEN E. WHEELER
DB 9828, PG 902
BM 1998, PG 1776
PIN 1767-58-6083
6301 MITCHELL MILL ROAD
ZEBULON, NC 27597
44.685 AC
ZONING: R-30

WILLIAM WAYNE WATKINS
DB 1177, PG 754
BM 1927, PG 89
PIN 1767-77-3114
ZONING: R-30

TOTAL AREA TO BE ANNEXED:
95.362 AC

LINE TABLE		
LINE	BEARING	LENGTH
L1	N65°44'16"E	102.70'
L2	S18°00'04"W	14.47'
L3	S42°30'53"E	45.95'
L4	S6°51'48"W	20.88'
L5	S76°45'14"W	26.61'
L6	S19°06'03"E	75.60'
L7	S21°12'02"E	67.30'
L8	S78°17'04"E	53.71'
L9	S80°26'04"E	61.46'



Annexation Certificate - Town Clerk:
I hereby certify that this plat for annexation has followed all requirements and procedures and a public hearing was held by the Town to annex the property herein described. The Town Board of Commissioners of the Town of Rolesville adopted the resolution to annex on _____ with the effective date of annexation on _____.

Town Clerk

SURVEYOR CERTIFICATION

I, TERRY L. WESTENDORF, PLS. HEREBY CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION, AS DESCRIBED IN DEEDS AND MAPS OF RECORD OR OTHER REFERENCE SOURCES; THAT THE ERROR OF CLOSURE AS CALCULATED BY LATITUDES AND DEPARTURES IS GREATER THAN 1:10,000, THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES PLOTTED FROM INFORMATION OF RECORD; THAT THIS MAP WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED.

THAT THIS SURVEY IS OF ANOTHER CATEGORY, SUCH AS A RECOMBINATION OF EXISTING PARCELS, A COURT ORDERED SURVEY, OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION.

TERRY L. WESTENDORF, NCPLS NO. L-3232
DATE 01/17/2020

FOR REFERENCE ONLY



**ANNEXATION PLAT
PREPARED FOR
HOPPER COMMUNITIES**

WAKE FOREST TWP	WAKE COUNTY, NC
DATE: JANUARY 17, 2020	SCALE: 1" = 200'
SHEET 1 OF 1	J.N.: 43398
DRAWN BY: MM	CHECK BY: TLW
FIELD EDIT BY:	
MAP CHECKED BY: MM, JANUARY 15, 2020	
REVISED:	

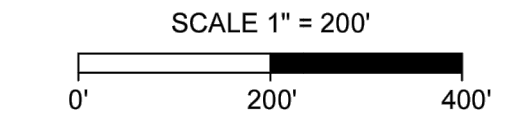
LINE TABLE		
LINE	BEARING	LENGTH
L10	S70°47'08"E	63.51'
L11	S20°21'33"W	55.83'
L12	S54°55'18"E	18.68'
L13	S88°00'51"E	67.89'
L14	S25°51'48"E	28.94'
L15	S15°51'51"E	50.19'
L16	S15°51'51"E	32.81'
L17	N33°49'30"W	30.36'

Review Officer Certification:
I, _____, Review Officer of the Town of Rolesville, Wake County, certify that the map or plat to which this certification is affixed meets all statutory requirements for recording.

Annexation Exempt Certification:
I hereby certify that this annexation plat is approved for recording, and is exempt from the Rolesville Unified Development Ordinance.

Review Officer _____ Date _____
Subdivision Administrator _____ Date _____

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD BEARING	CHORD
C11	10151.02'	67.90'	33.95'	0°23'00"	S51°28'46"W	67.90'
C12	20962.58'	151.52'	75.76'	0°24'51"	S50°55'27"W	151.51'
C13	9512.05'	393.48'	196.77'	2°22'13"	S50°31'07"W	393.46'
C14	8816.09'	301.66'	150.84'	1°57'38"	S45°11'08"W	301.64'
C15	2299367.06'	228.79'	114.39'	0°00'21"	S44°29'43"W	228.79'
C16	18151.18'	279.12'	139.56'	0°52'52"	S45°19'30"W	279.12'
C17	7283.93'	411.64'	205.88'	3°14'17"	S47°55'59"W	411.59'
C18	14402.54'	332.73'	166.37'	1°19'25"	S49°50'49"W	332.72'
C19	2123.53'	165.27'	82.67'	4°27'33"	S52°13'18"W	165.22'
C20	1515.57'	147.40'	73.76'	5°34'21"	S59°21'35"W	147.34'
C21	3285.30'	117.30'	58.66'	2°02'45"	S61°15'45"W	117.29'
C22	2666.61'	37.74'	18.87'	0°48'40"	S59°23'07"W	37.74'

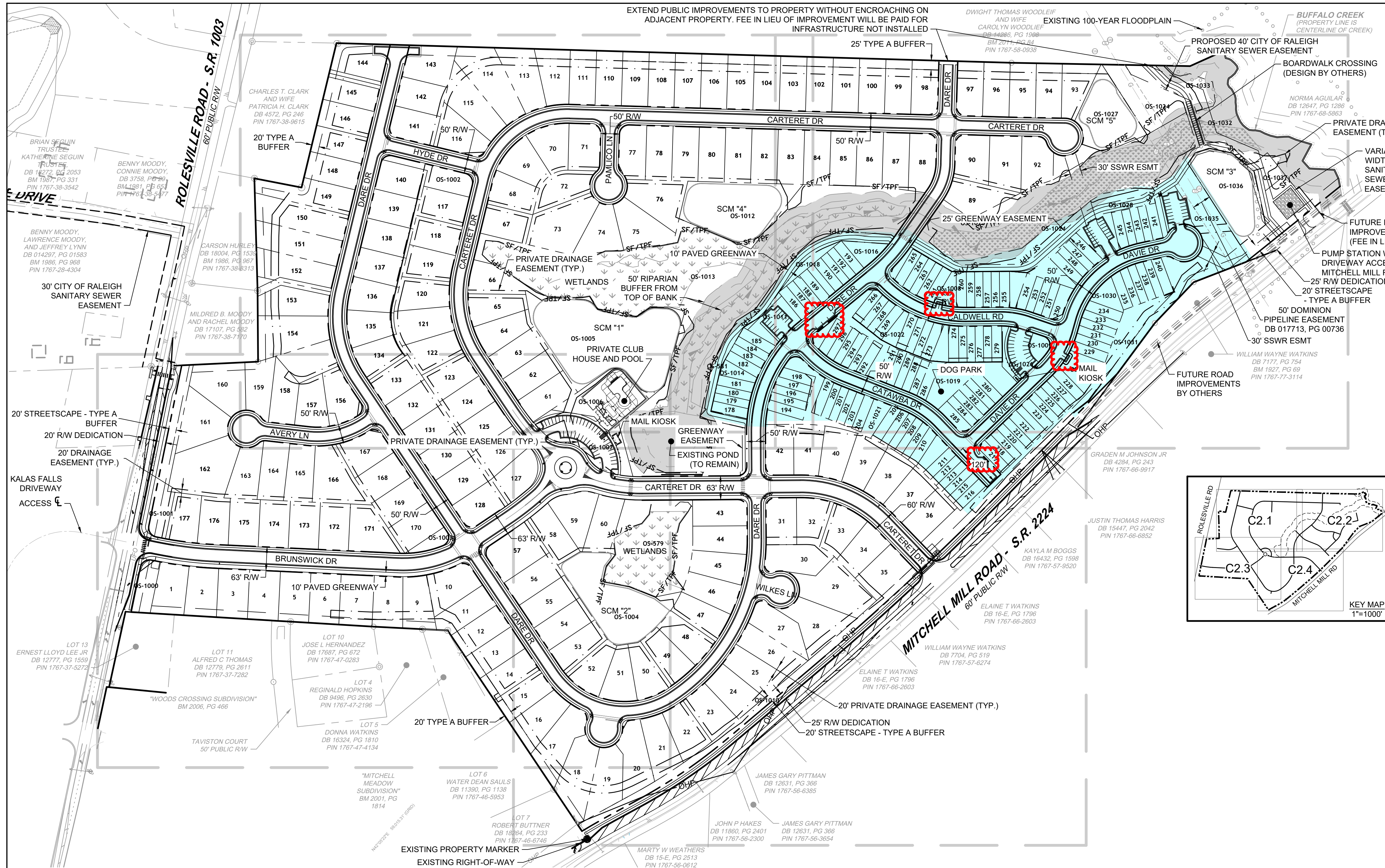


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NORTH CAROLINA LICENSE NUMBER C-1552

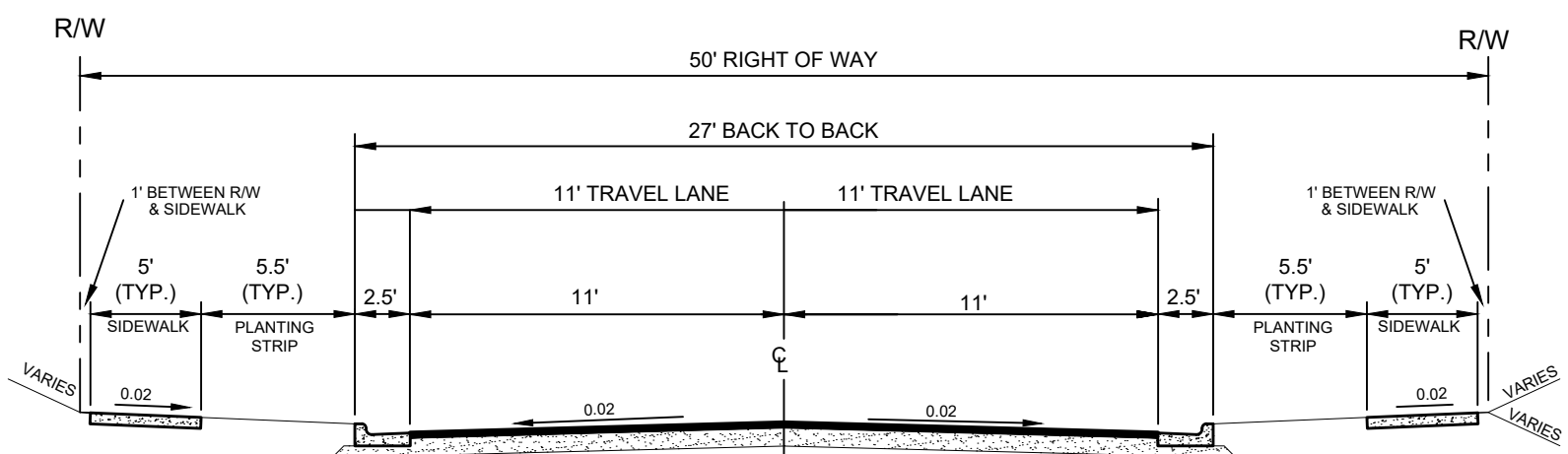
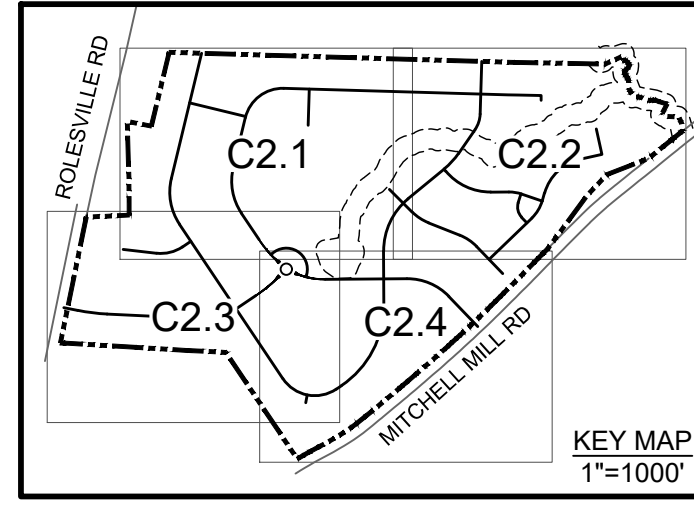
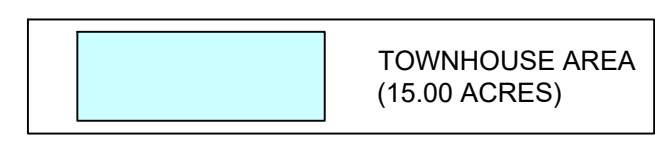
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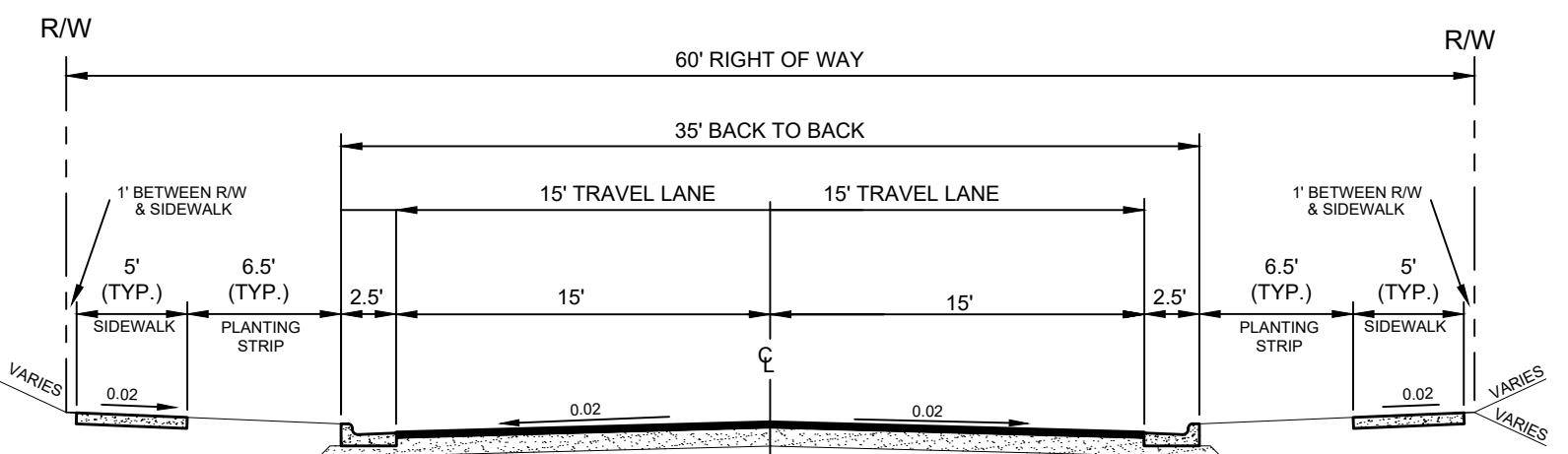
Technology
Infrastructure
Residential
Site Development



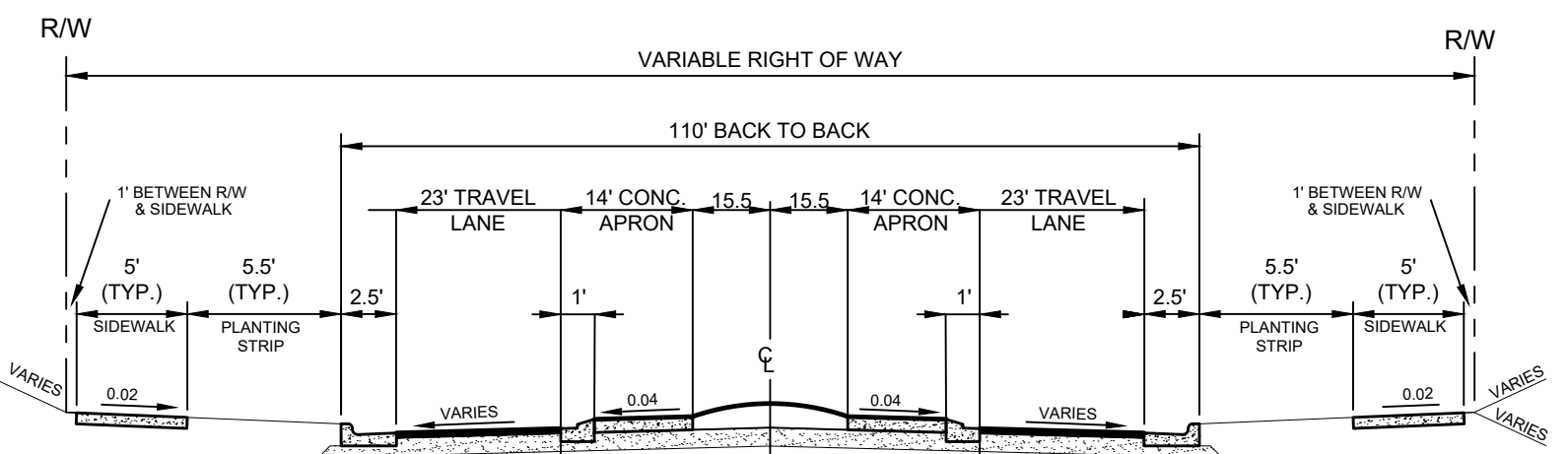
- ### SITE LAYOUT NOTES
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.
 - ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVING, BUILDING WALL FACE OR PROPERTY LINE UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, UTILITIES AND GRADES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY EXISTING DISCREPANCIES PRIOR TO COMMENCING ANY RELATED CONSTRUCTION.
 - AT LEAST 72 HOURS PRIOR TO CONSTRUCTION OR EXCAVATION THE CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) TO HAVE EXISTING UTILITIES LOCATED.
 - PARKING SPACES ARE 9' WIDE X 18' LONG MINIMUM EXCEPT HANDICAP SPACES WHICH ARE 8.0' WIDE MINIMUM WITH 8.0' VAN ACCESS AND 5.0' STANDARD ACCESS AISLES.
 - REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF THE BUILDING(S).
 - CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DIMENSIONAL CONFLICTS PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - ALL CURB AND GUTTER IN THE PUBLIC RIGHT OF WAY SHALL BE 30" WIDE.
 - ALL DISTURBED CURB & GUTTER AND ASPHALT SHALL BE REPLACED PER TOWN OF ROLESVILLE OR NCDOT STANDARDS AND SPECIFICATIONS.
 - ALL DRIVEWAY DESIGN AND CONSTRUCTION MUST COMPLY WITH TOWN OF ROLESVILLE. DRIVEWAYS SHALL BE PERMITTED SEPARATELY.
 - NO SIGHT OBSTRUCTING OR PARTIALLY OBSTRUCTING WALL, FENCE, FOLIAGE, BERING, PARKED VEHICLES OR SIGN BETWEEN THE HEIGHTS OF TWENTY-FOUR (24) INCHES AND EIGHT (8) FEET ABOVE THE CURB LINE ELEVATION, OR THE NEAREST TRAVELED WAY IF NO CURBING EXISTS, SHALL BE PLACED WITHIN A SIGHT TRIANGLE OF A PUBLIC STREET, PRIVATE STREET OR DRIVEWAY CONTAINED EITHER ON THE PROPERTY OR ON AN ADJOINING PROPERTY.
 - PRIVATE CLUB HOUSE AND POOL AREA REQUIRES SEPARATE SITE PLAN APPROVAL PROCESS THROUGH TOWN OF ROLESVILLE.
 - SUBDIVISION STREET NAMES PENDING WAKE COUNTY APPROVAL.
 - REFER TO SHEET C0.0 FOR SETBACK TABLE FOR SINGLE FAMILY AND TOWNHOMES.



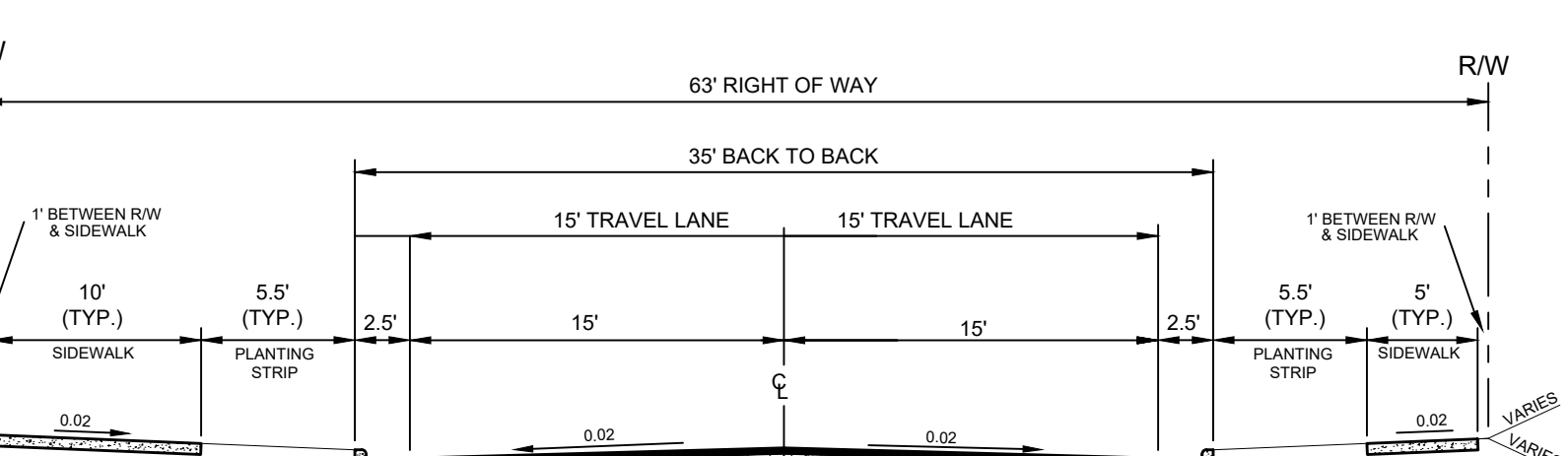
LOCAL RESIDENTIAL STREET
(50' PUBLIC R/W)



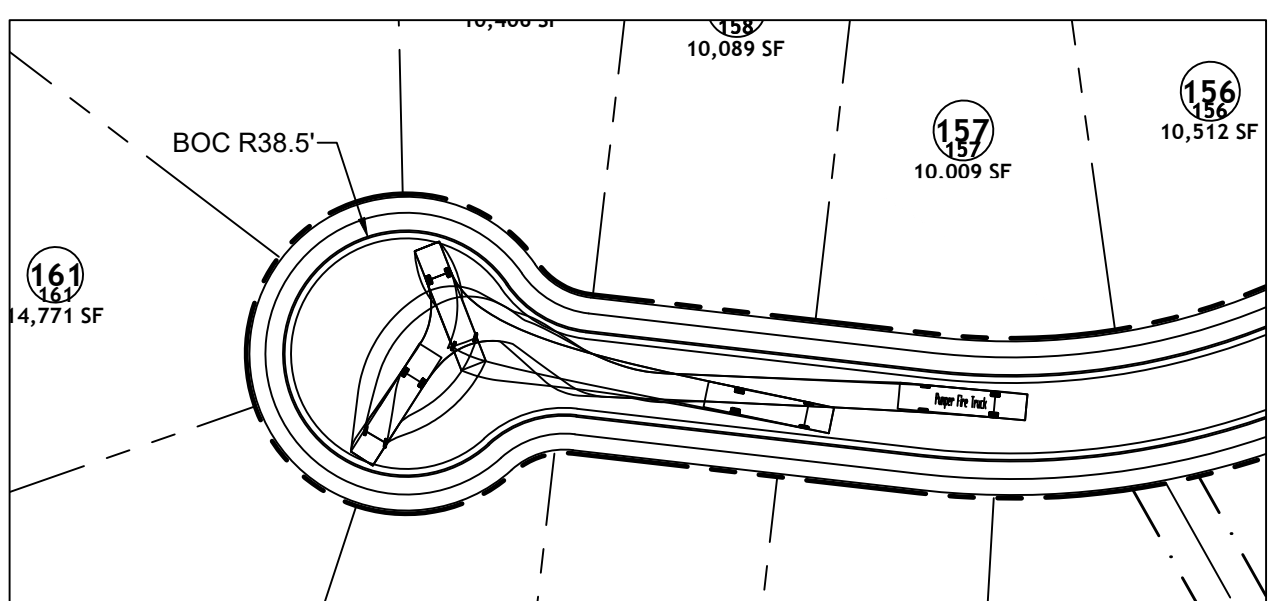
RESIDENTIAL COLLECTOR
(60' PUBLIC R/W)



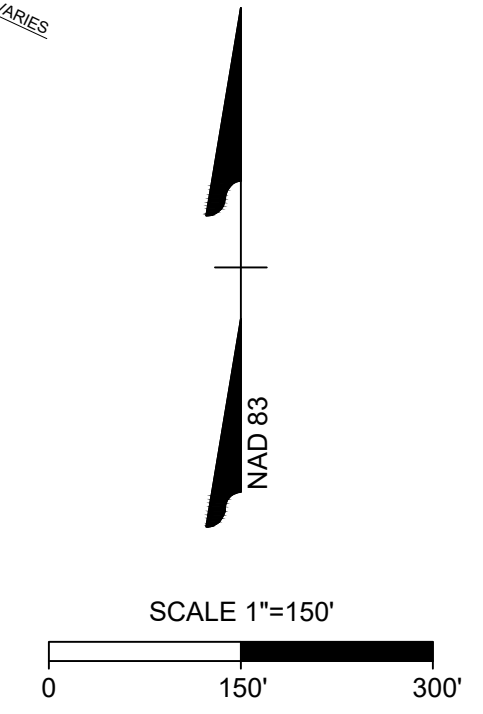
RESIDENTIAL ROUNDABOUT



RESIDENTIAL COLLECTOR WITH GREENWAY
(63' PUBLIC R/W)



FIRE APPARATUS ACCESS INSET
SCALE: 1" = 60'



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DATE	REVISION DESCRIPTION
06/24/2022	PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

DATE: 09/17/2021
DRAWN BY: R. WINGATE
DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

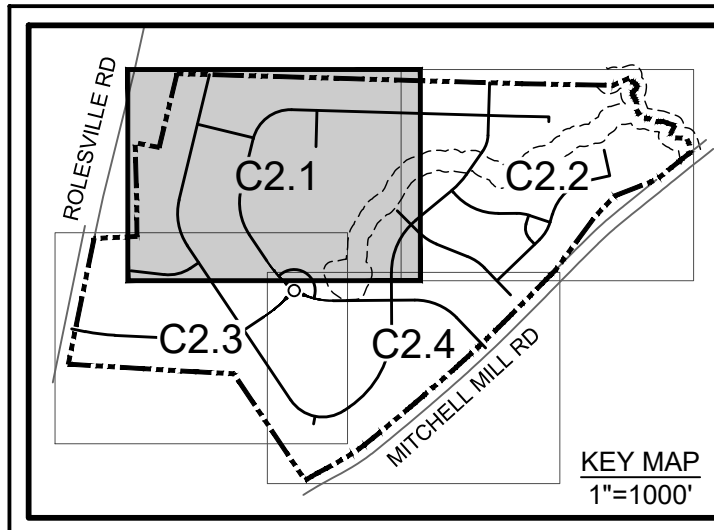
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

OVERALL SITE PLAN

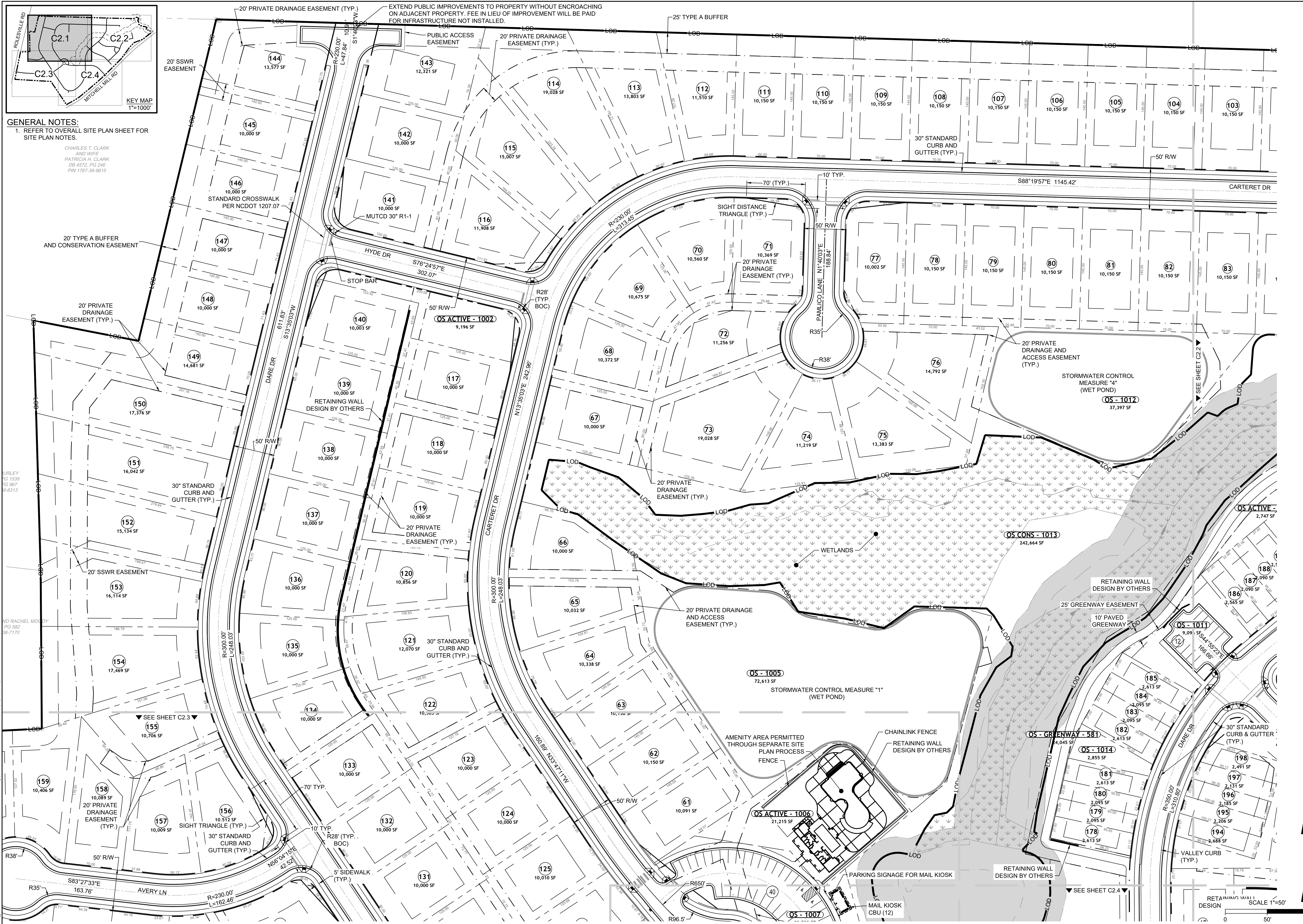
JOB NO. 43398
SHEET NO. C2.0

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

S:\324\43398-Wheeler_Timed\DWG\Sheet\CD\43398-C2.0-SITE.dwg | Printed on 12/22/2023 4:52 PM | by April Blye



GENERAL NOTES:
 1. REFER TO OVERALL SITE PLAN SHEET FOR SITE PLAN NOTES.
 CHARLES T. CLARK AND WIFE
 PATRICIA H. CLARK
 DB 4572, PG 246
 PIN 1767-38-9615



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06/24/2022	REVISIONS PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021
 DRAWN BY
R. WINGATE
 DESIGNED BY
P. BARBEAU
 CHECKED BY
P. BARBEAU
 SCALE
AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

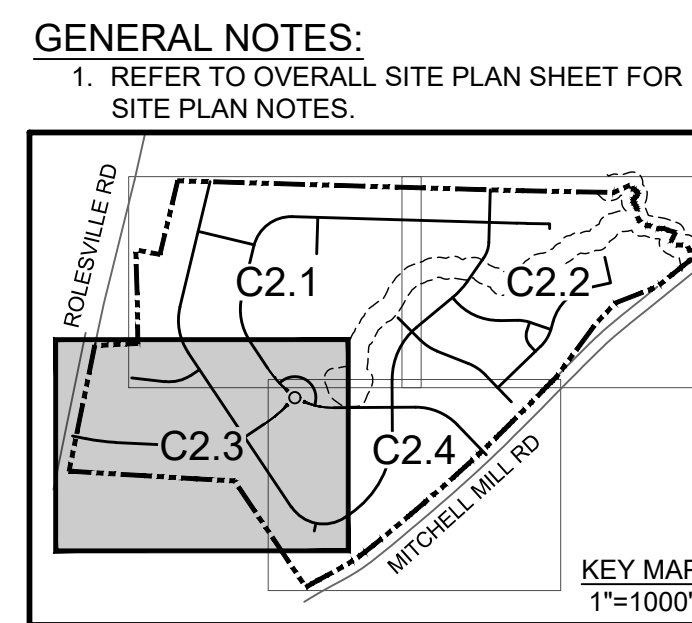
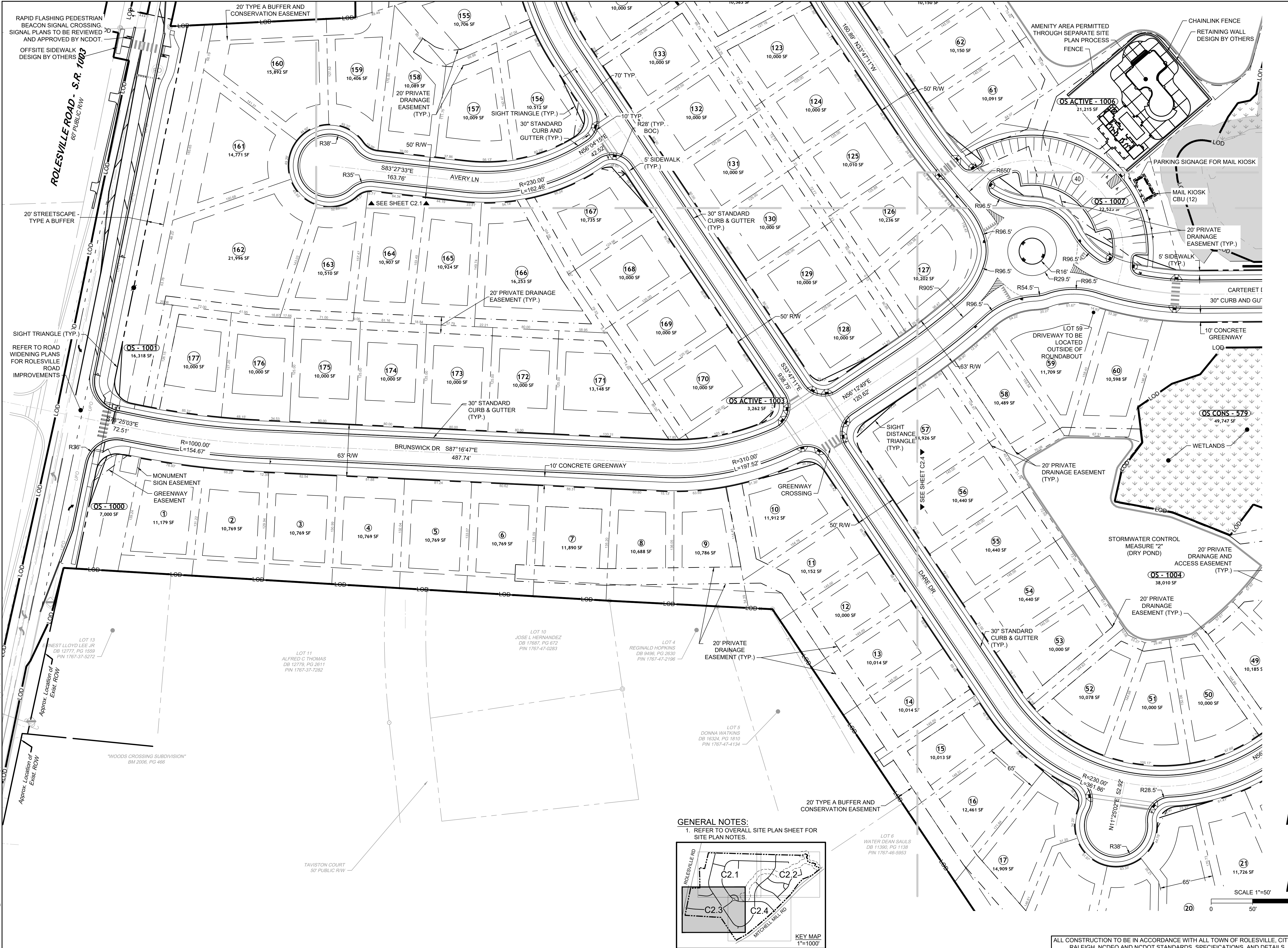
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

SITE PLAN

JOB NO.
43398
 SHEET NO.
C2.1

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

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06/24/2022	REVISIONS PER WAKE COUNTY COMMENTS
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04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021
 DRAWN BY
R. WINGATE
 DESIGNED BY
P. BARBEAU
 CHECKED BY
P. BARBEAU
 SCALE
AS SHOWN

ROLESVILLE CROSSING - CD 21-08
 NORTH CAROLINA LICENSE NO. C-1652
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
SITE PLAN

JOB NO.
43398
 SHEET NO.
C2.3

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07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS



GENERAL NOTES:
 1. REFER TO OVERALL SITE PLAN SHEET FOR SITE PLAN NOTES.

ELAINE T WATKINS
 DB 16-E, PG 1796
 PIN 1767-66-2603

WILLIAM WAYNE WATKINS
 DB 7704, PG 519
 PIN 1767-67-6274

ELAINE T WATKINS
 DB 16-E, PG 1796
 PIN 1767-66-2603

JAMES GARY PITTMAN
 DB 12631, PG 366
 PIN 1767-56-6385

JOHN P HAKES
 DB 11860, PG 2401
 PIN 1767-56-2300

JAMES GARY PITTMAN
 DB 12631, PG 366
 PIN 1767-56-3654

MARTY W WEATHERS
 DB 15-E, PG 2513
 PIN 1767-56-0612

DESIGNED BY
P. BARBEAU

CHECKED BY
P. BARBEAU

SCALE
AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

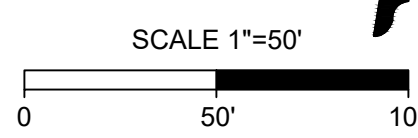
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

SITE PLAN

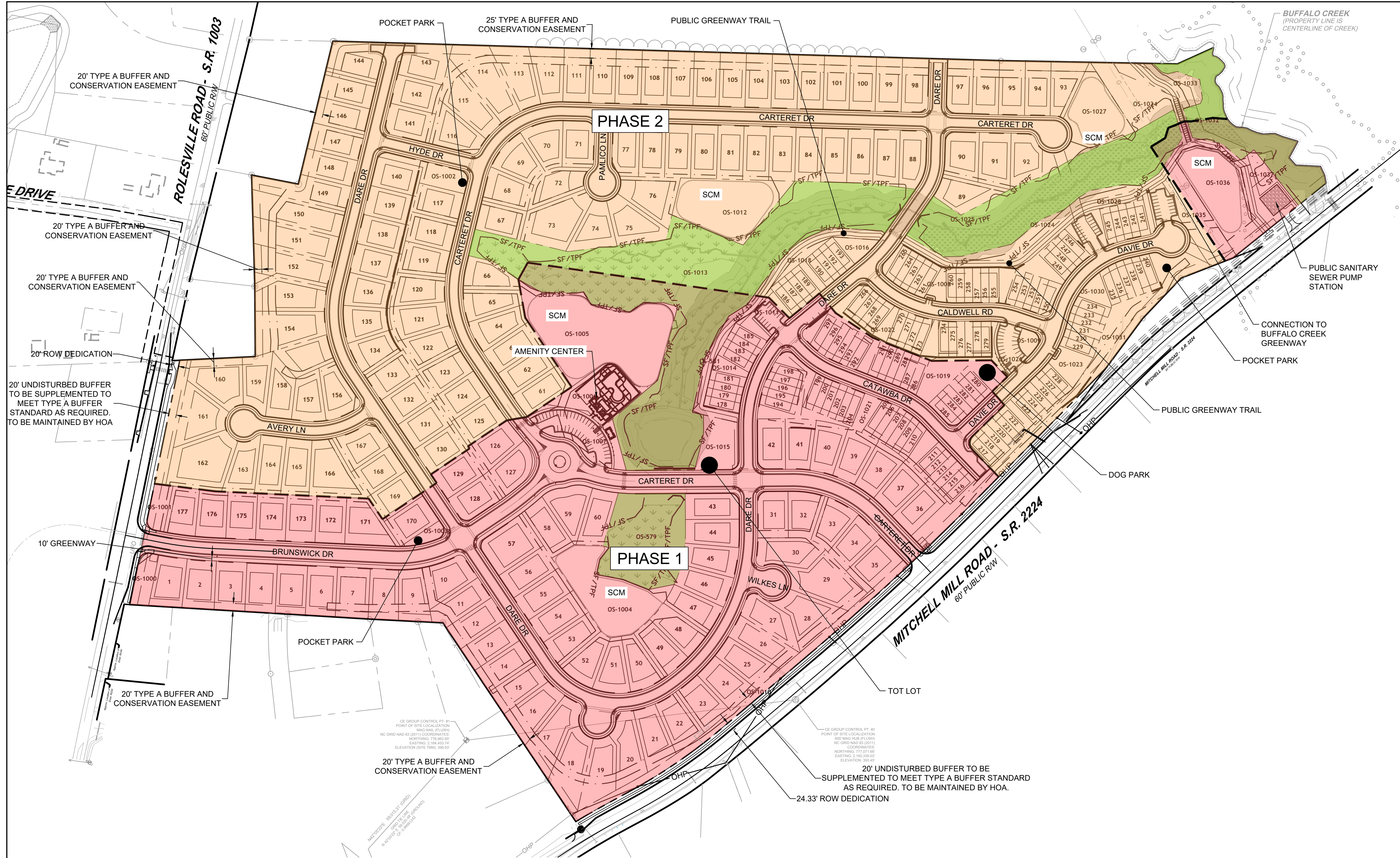
JOB NO.
43398

SHEET NO.
C2.4

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PHASE LEGEND	
HATCH	DESCRIPTION
[Orange Hatch]	PHASE 1
[Green Hatch]	PHASE 2

LOT DATA TABLE		
PHASE	1	2
NUMBER OF LOT(S)	1	297
LOT NUMBER(S) BY PHASE	1-60, 126-129, 170-185, 194-216, 280-297	61-125, 130-169, 186-193, 217-279
NUMBER OF SINGLE FAMILY UNITS	72	105
NUMBER OF TOWNHOME UNITS	49	71



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06/24/2022	REVISE PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISE PER NC DOT COMMENTS
09/06/2023	REVISE PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISE TO APPROVED PLANS

09/17/2021
 DRAWN BY
R. WINGATE
 DESIGNED BY
P. BARBEAU
 CHECKED BY
P. BARBEAU
 SCALE
AS SHOWN

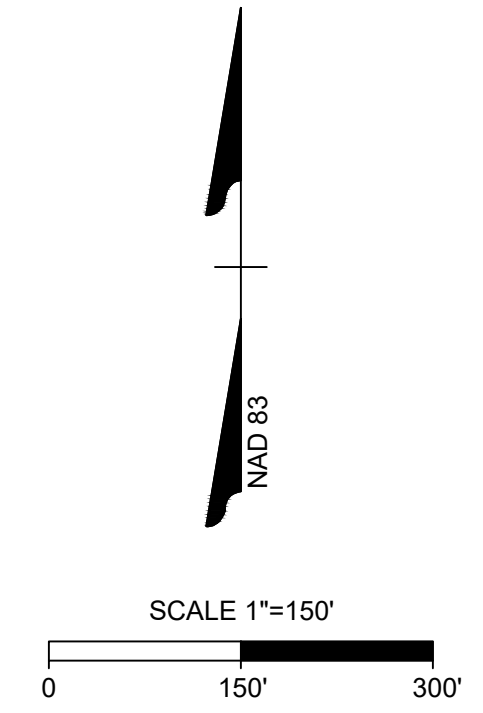
TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

PHASING PLAN

JOB NO.
43398

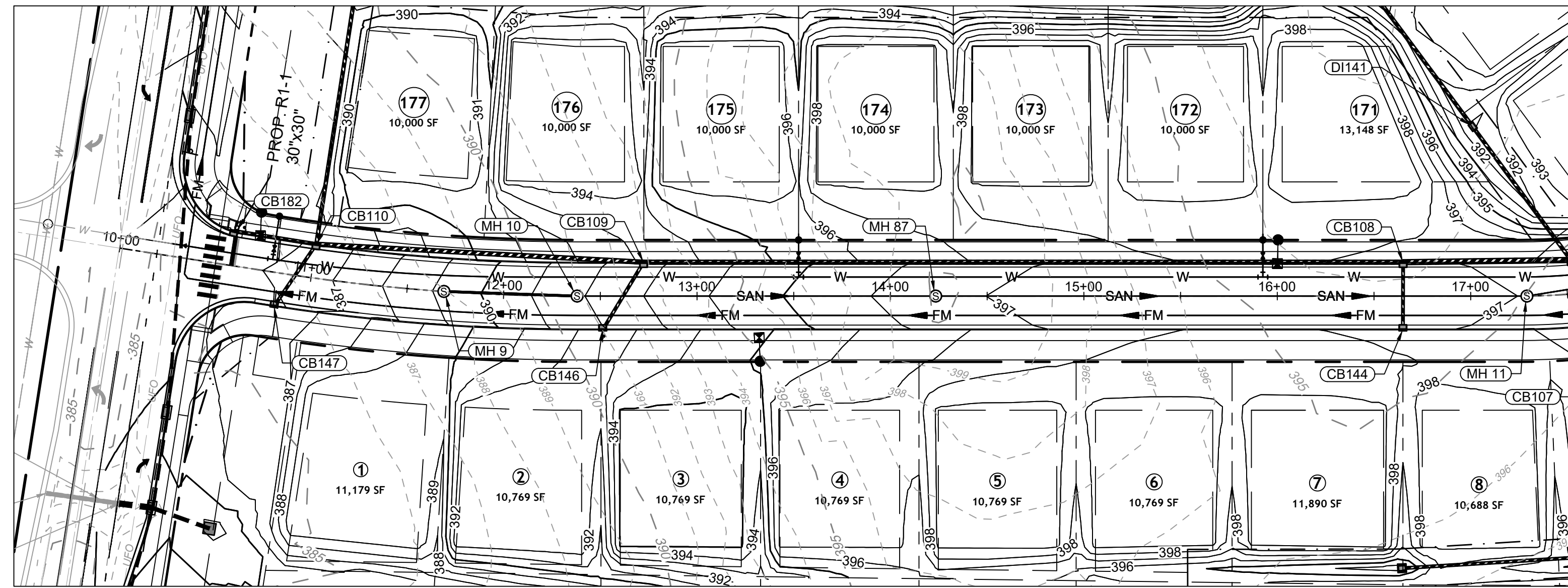
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C2.5



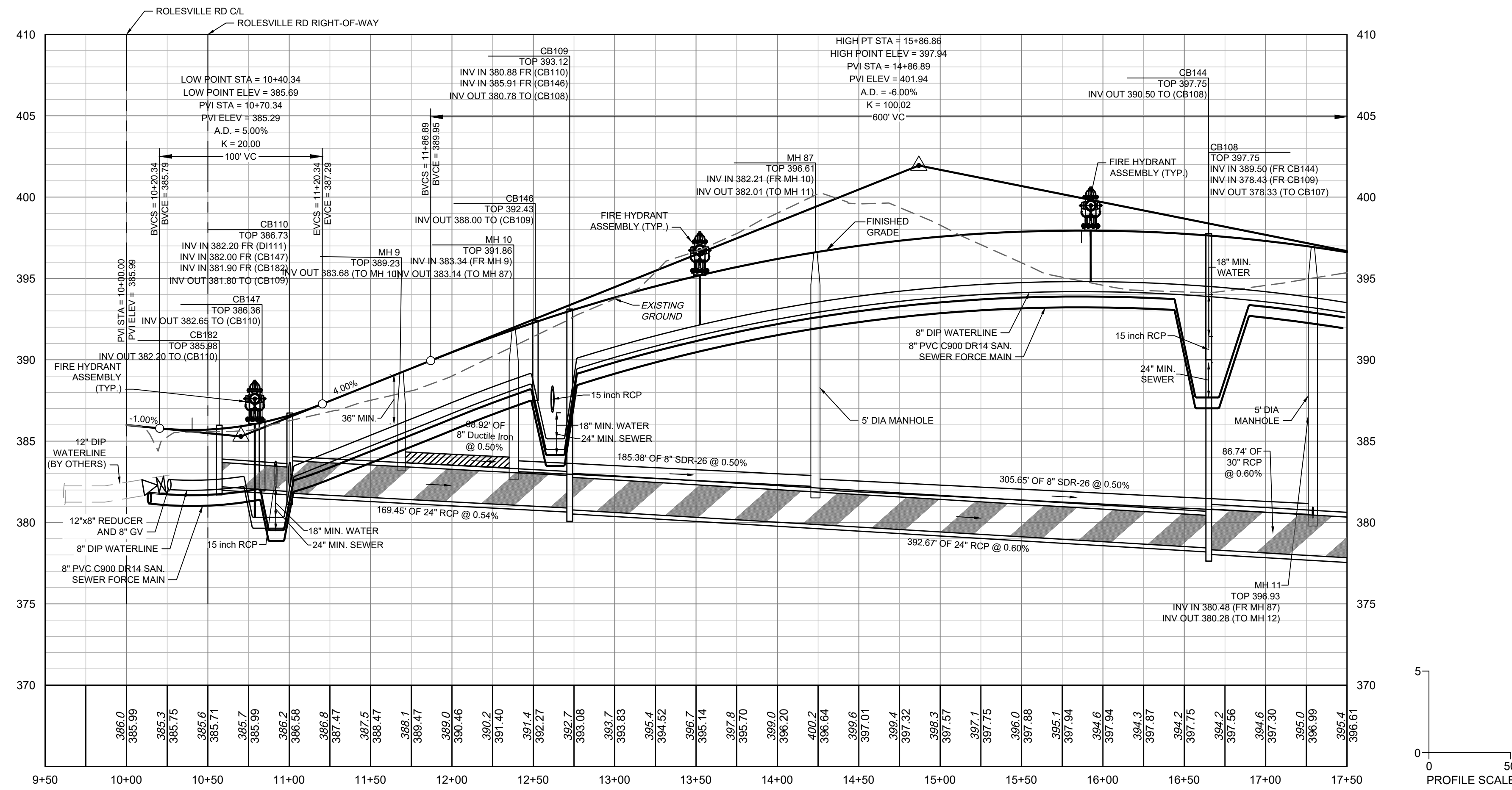
ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NC DEQ AND NC DOT STANDARDS, SPECIFICATIONS, AND DETAILS

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**BRUNSWICK DR PLAN
VIEW
STA 10+00 - 17+50**



**BRUNSWICK DR
PROFILE
STA 10+00 - 17+50**

NOTE: ANY SEWER DEEPER THAN 12' REQUIRES SDR-26 OR DIP SEWER PIPE AND 5' DIAMETER MANHOLES. SEWER DEEPER THAN 20' REQUIRES 6' DIAMETER MANHOLES AND DIP SEWER PIPE.

SEWER MAIN MATERIAL:

PVC SDR35	MIN. 3' TO 12' NON-TRAFFIC AREA; MIN. 5' TO 12' TRAFFIC AREA
PVC SDR26	12'-20' TRAFFIC AND NON-TRAFFIC AREAS
DIP	MIN. 3' TO 5' TRAFFIC AREA (CLASS 1 BEDDING); GREATER THAN 20' WITH DIRECTOR APPROVAL

ATTENTION CONTRACTORS

THE CONSTRUCTION CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER AND/OR REUSE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE PUBLIC WORKS DEPARTMENT AT (919) 996-3403 AND THE PUBLIC UTILITIES DEPARTMENT AT (919) 996-4540 AT LEAST TWENTY FOUR HOURS PRIOR TO BEGINNING ANY OF THEIR CONSTRUCTION.

FAILURE TO NOTIFY BOTH CITY DEPARTMENTS IN ADVANCE OF BEGINNING CONSTRUCTION, WILL RESULT IN THE ISSUANCE OF MONETARY FINES, AND REQUIRE REINSTALLATION OF ANY WATER OR SEWER FACILITIES NOT INSPECTED AS A RESULT OF THIS NOTIFICATION FAILURE.

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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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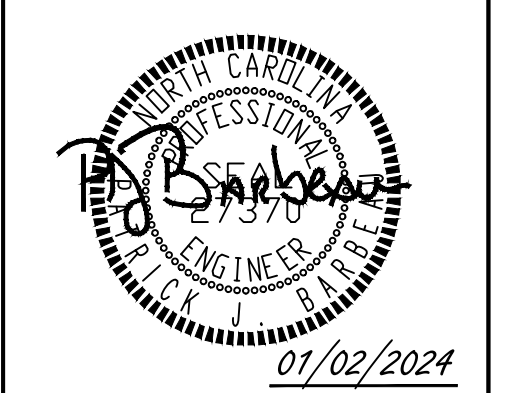
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City of Raleigh Development Approval _____
City of Raleigh Review Officer _____



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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
CONSTRUCTION DOCUMENT SUBMITTAL	07/22/2022
REVISIONS PER NCDOT COMMENTS	04/06/2023
REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024

DATE: 09/17/2021
DRAWN BY: R. WINGATE
DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

ROAD 1 PLAN & PROFILE

JOB NO. 43398
SHEET NO. C2.9

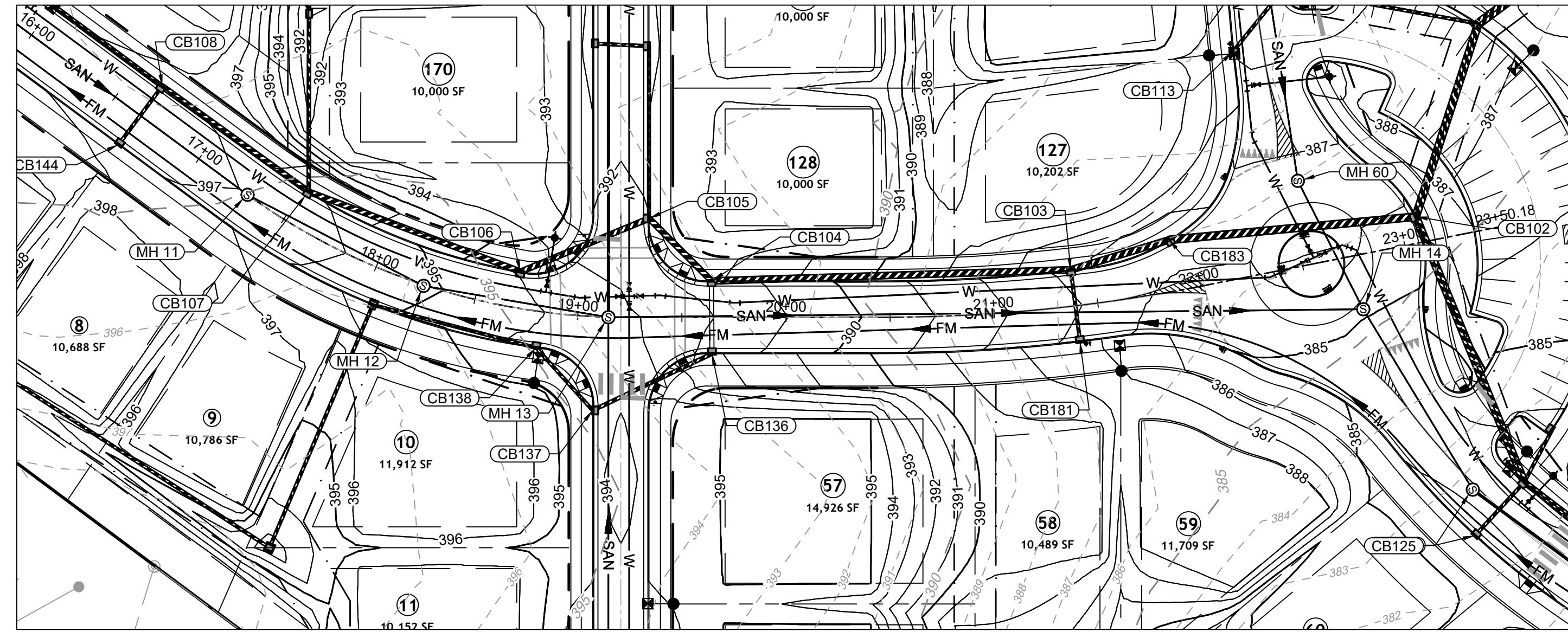


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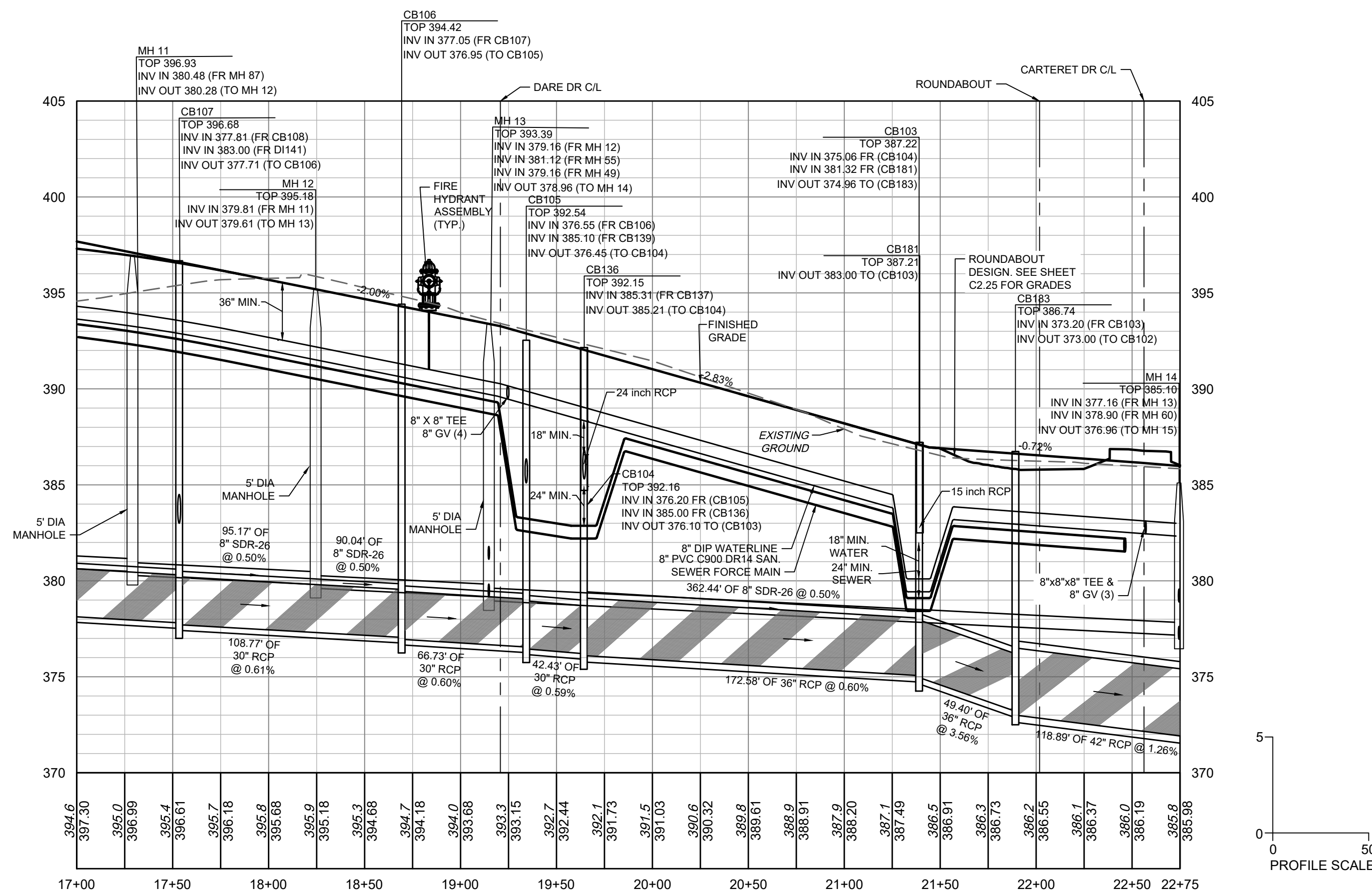
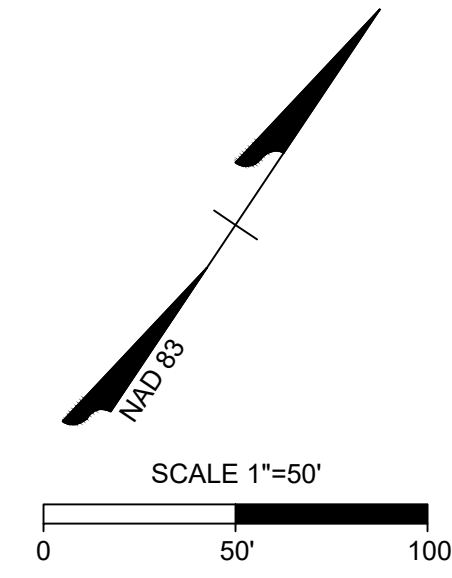
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01/02/2024



BRUNSWICK DR PLAN VIEW
STA 17+50 - 23+49.78



BRUNSWICK DR PROFILE
STA 17+50 - 23+49.78

SEWER MAIN MATERIAL:

- PVC SDR35 MIN. 3' TO 12' NON-TRAFFIC AREA;
MIN. 5' TO 12' TRAFFIC AREA
- PVC SDR26 12'-20' TRAFFIC AND NON-TRAFFIC AREAS
- DIP MIN. 3' TO 5' TRAFFIC AREA (CLASS 1 BEDDING);
GREATER THAN 20' WITH DIRECTOR APPROVAL

NOTE: ANY SEWER DEEPER THAN 12' REQUIRES SDR-26 OR DIP SEWER PIPE AND 5' DIAMETER MANHOLES. SEWER DEEPER THAN 20' REQUIRES 6' DIAMETER MANHOLES AND DIP SEWER PIPE.

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)

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TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
ROAD 1 PLAN & PROFILE

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
06/24/2022	REVISIONS PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

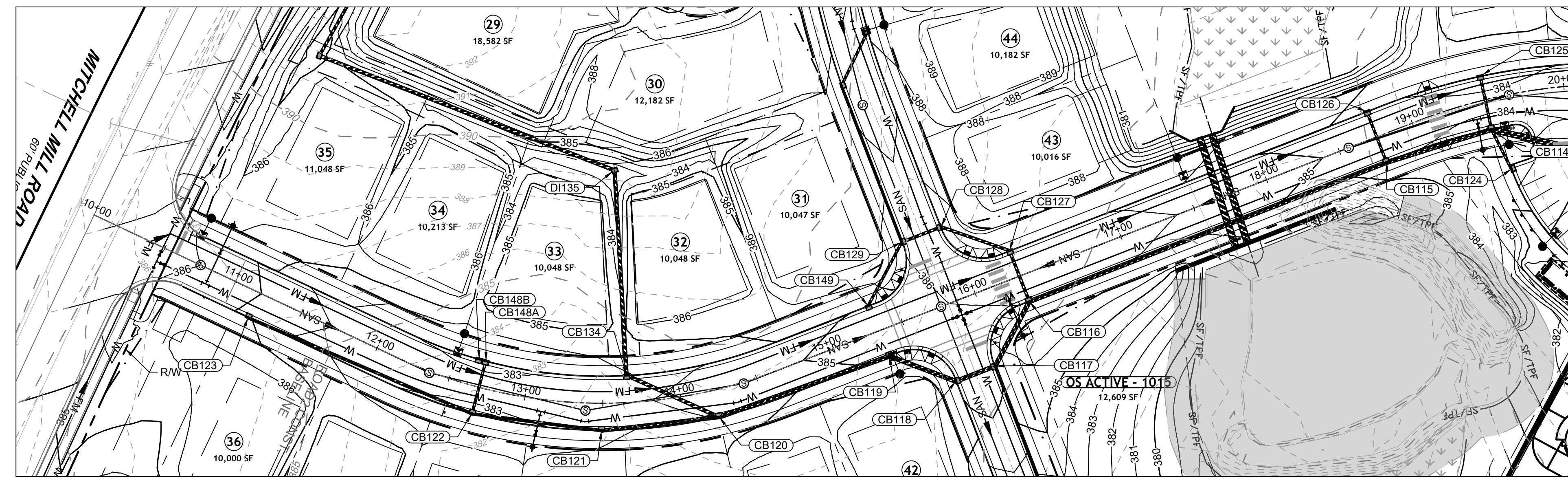
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JOB NO.	43398
SHEET NO.	C2.10

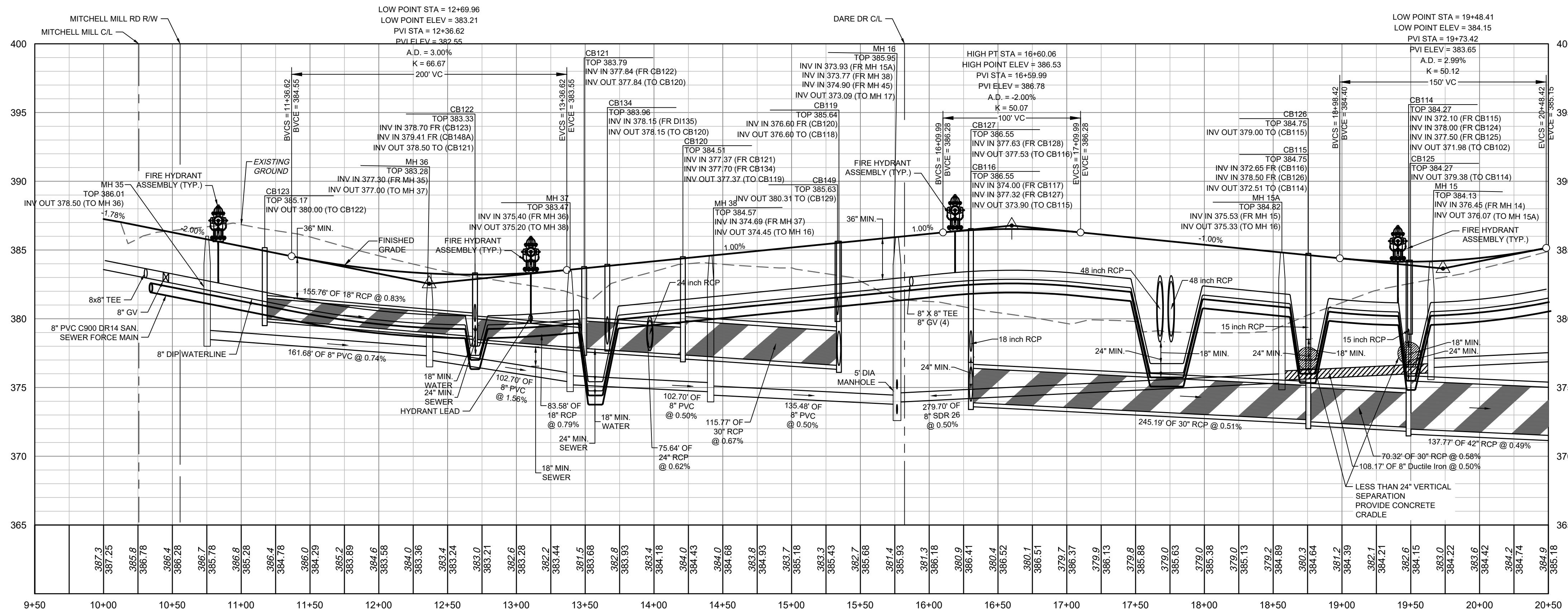
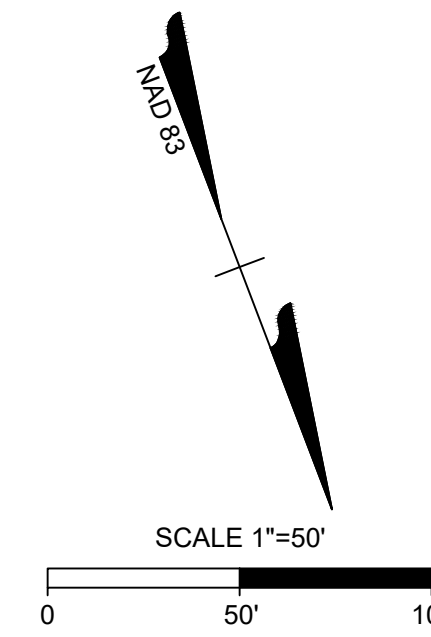


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CARTERET DR PLAN VIEW
STA 9+50 - 20+00



CARTERET DR PROFILE
STA 9+50 - 20+00

ATTENTION CONTRACTORS

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SITE PERMITTING APPROVAL

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City of Raleigh Development Approval _____

City of Raleigh Review Officer _____

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

ROAD 2 PLAN & PROFILE

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
06/24/2022	REVISED PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

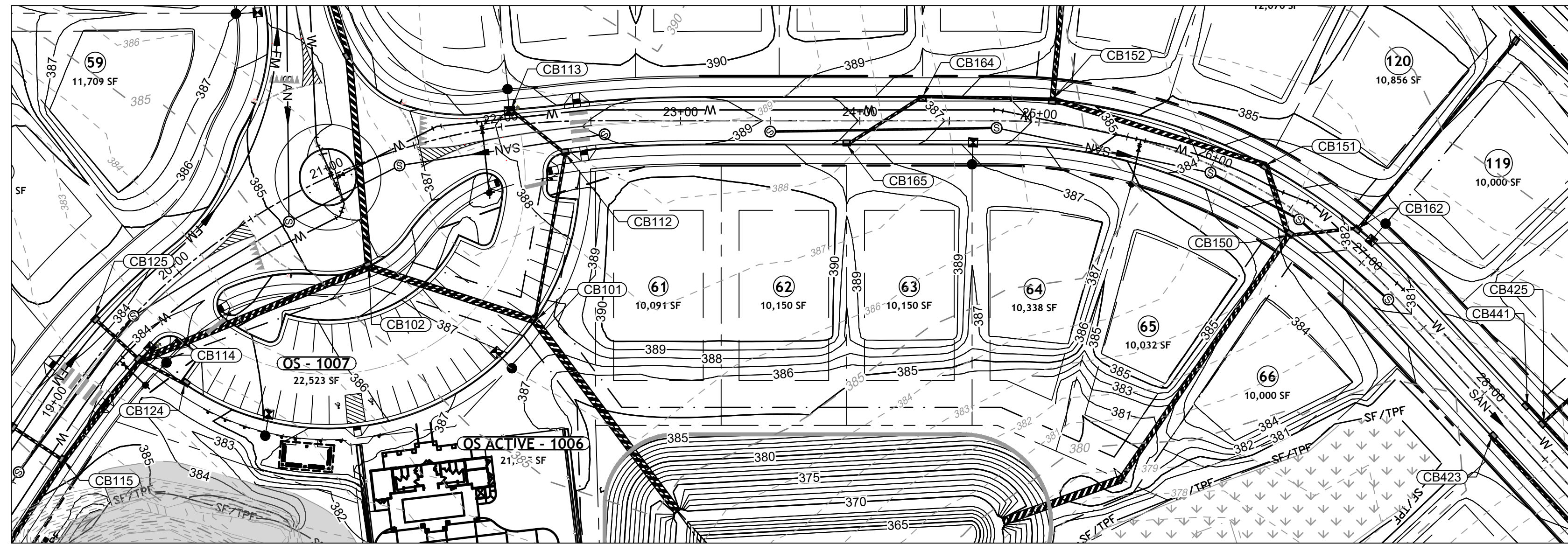
DATE: 09/17/2021
DRAWN BY: R. WINGATE
DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

JOB NO. 43398
SHEET NO. C2.11

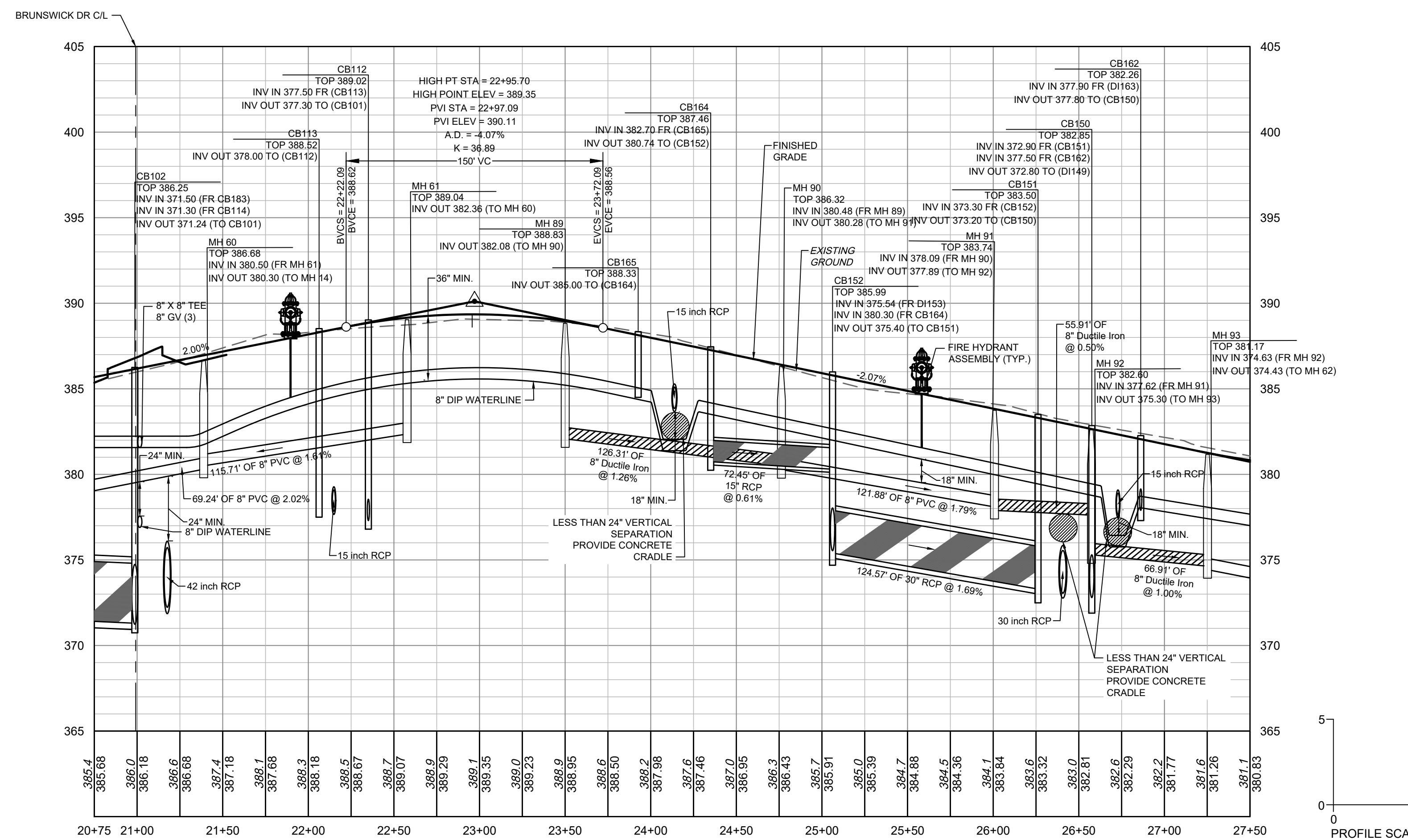
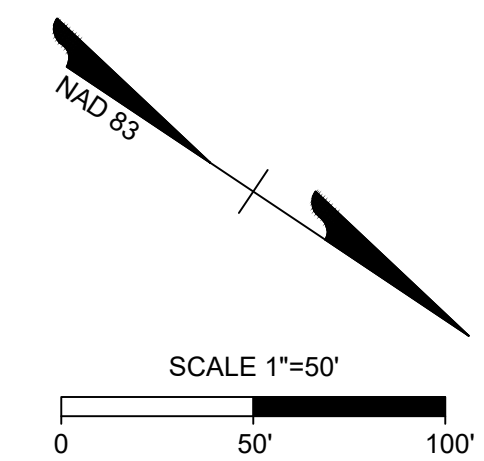
811
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CARTERET DR PLAN VIEW
STA 19+50 - 27+50



CARTERET DR PROFILE
STA 19+50 - 27+50

ATTENTION CONTRACTORS

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SITE PERMITTING APPROVAL

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06/24/2022	REVISIONS PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

DATE: 09/17/2021
DRAWN BY: R. WINGATE
DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

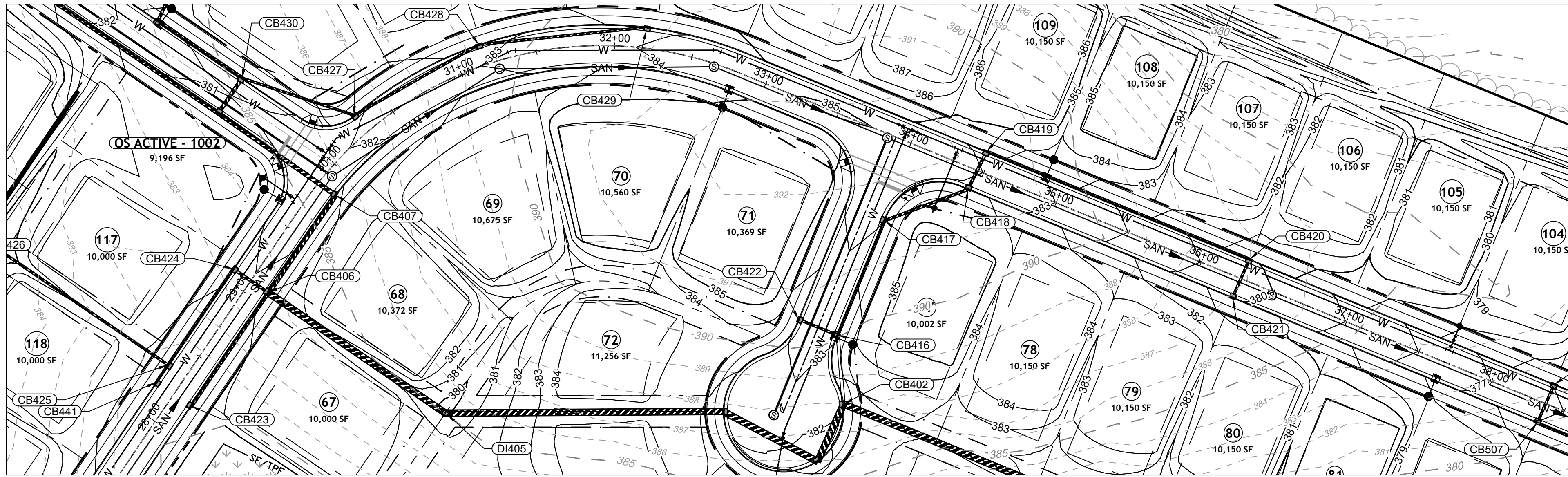
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

ROAD 2 PLAN & PROFILE

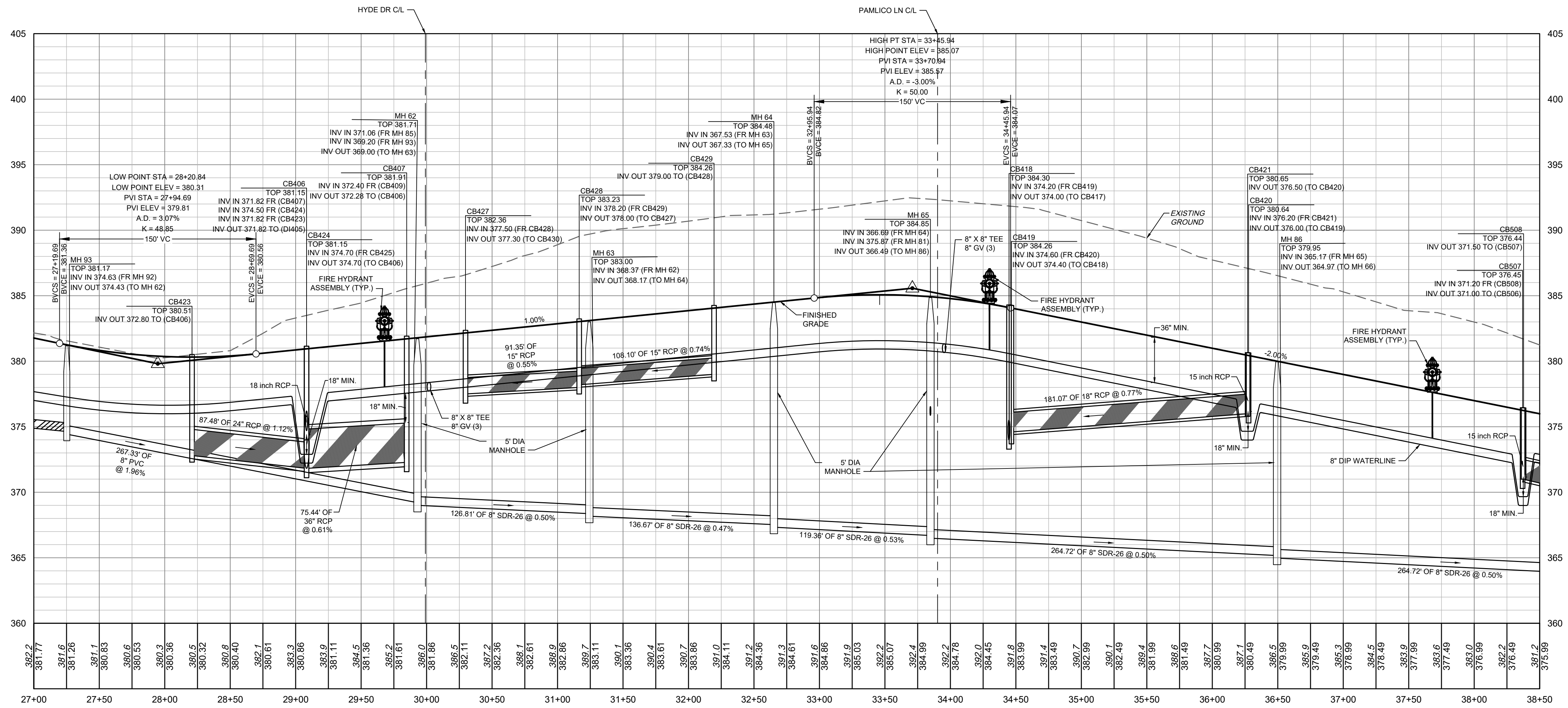
JOB NO. 43398
SHEET NO. C2.12



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CARTERET DR PLAN VIEW
STA 27+00 - 38+50



CARTERET DR PROFILE
STA 27+00 - 38+50

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09/17/2021
DRAWN BY
R. WINGATE
DESIGNED BY
P. BARBEAU
CHECKED BY
P. BARBEAU
SCALE
AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

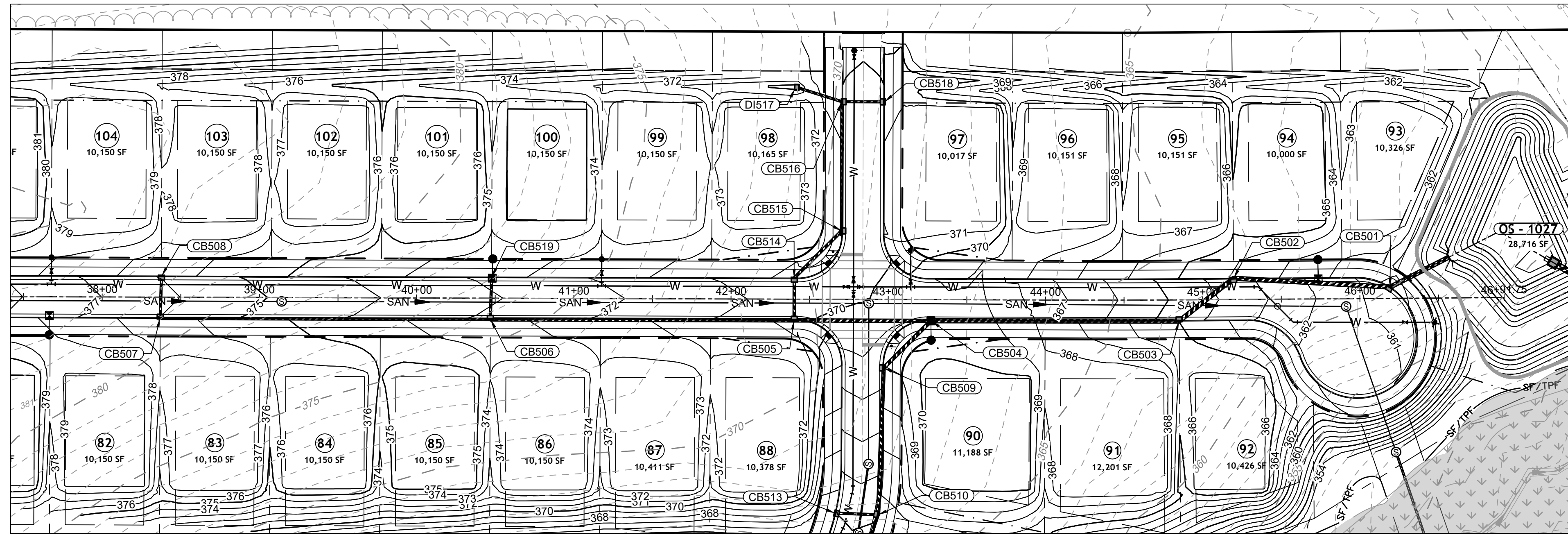
ROAD 2 PLAN & PROFILE

JOB NO.
43398

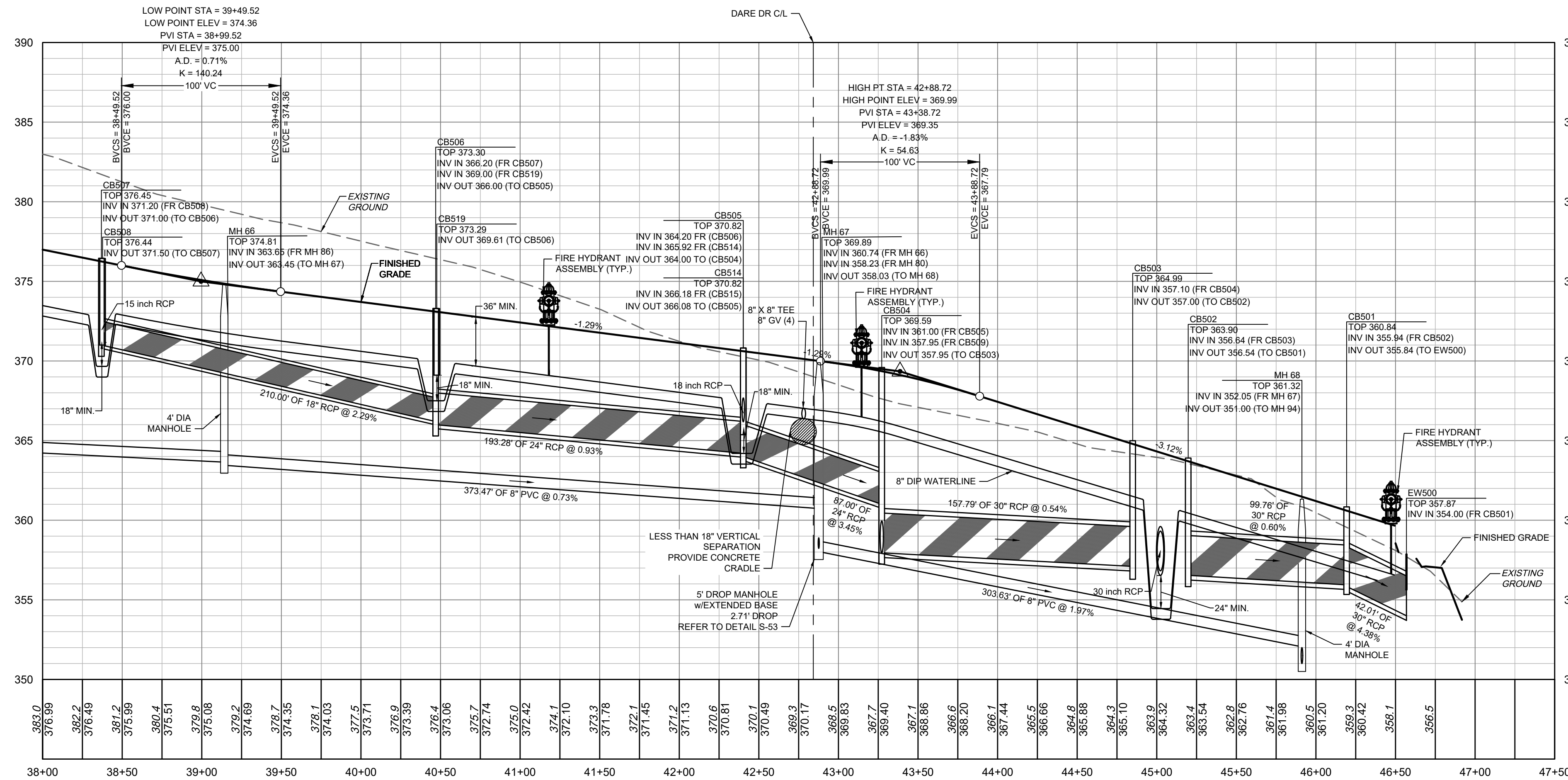
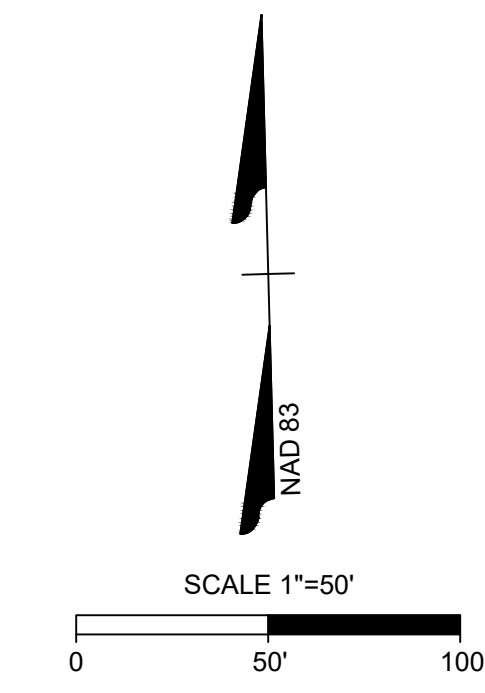
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CARTERET DR PLAN VIEW
STA 38+00 - 46+92.22



CARTERET DR PROFILE
STA 38+00 - 46+92.22

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09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

DATE: 09/17/2021
DRAWN BY: R. WINGATE
DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

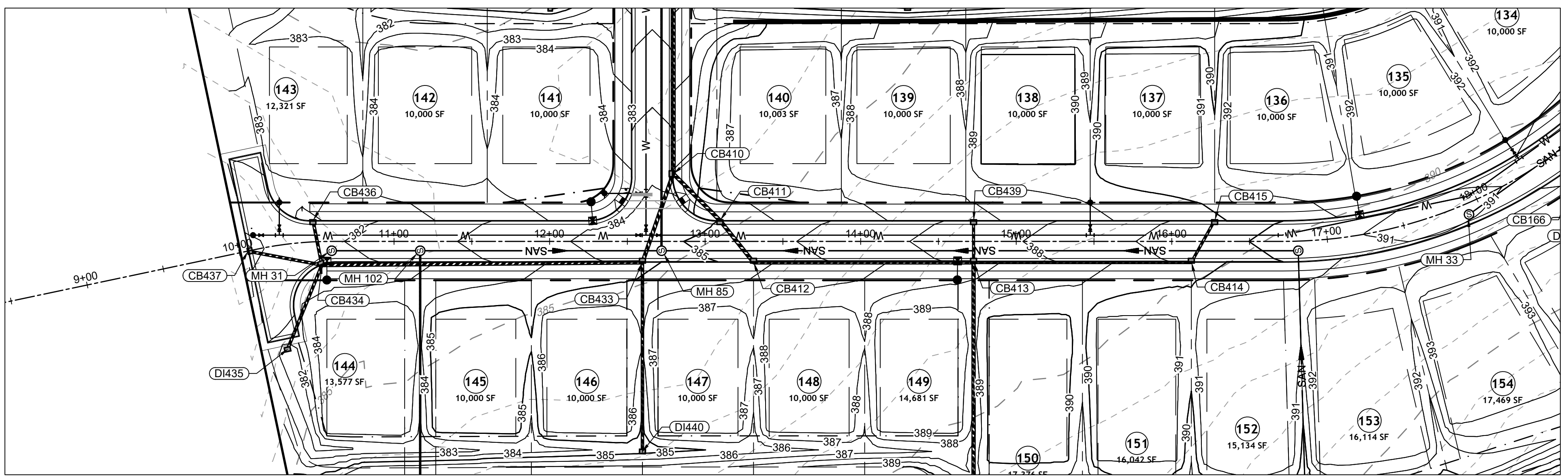
ROAD 2 PLAN & PROFILE

JOB NO. 43398
SHEET NO. C2.14

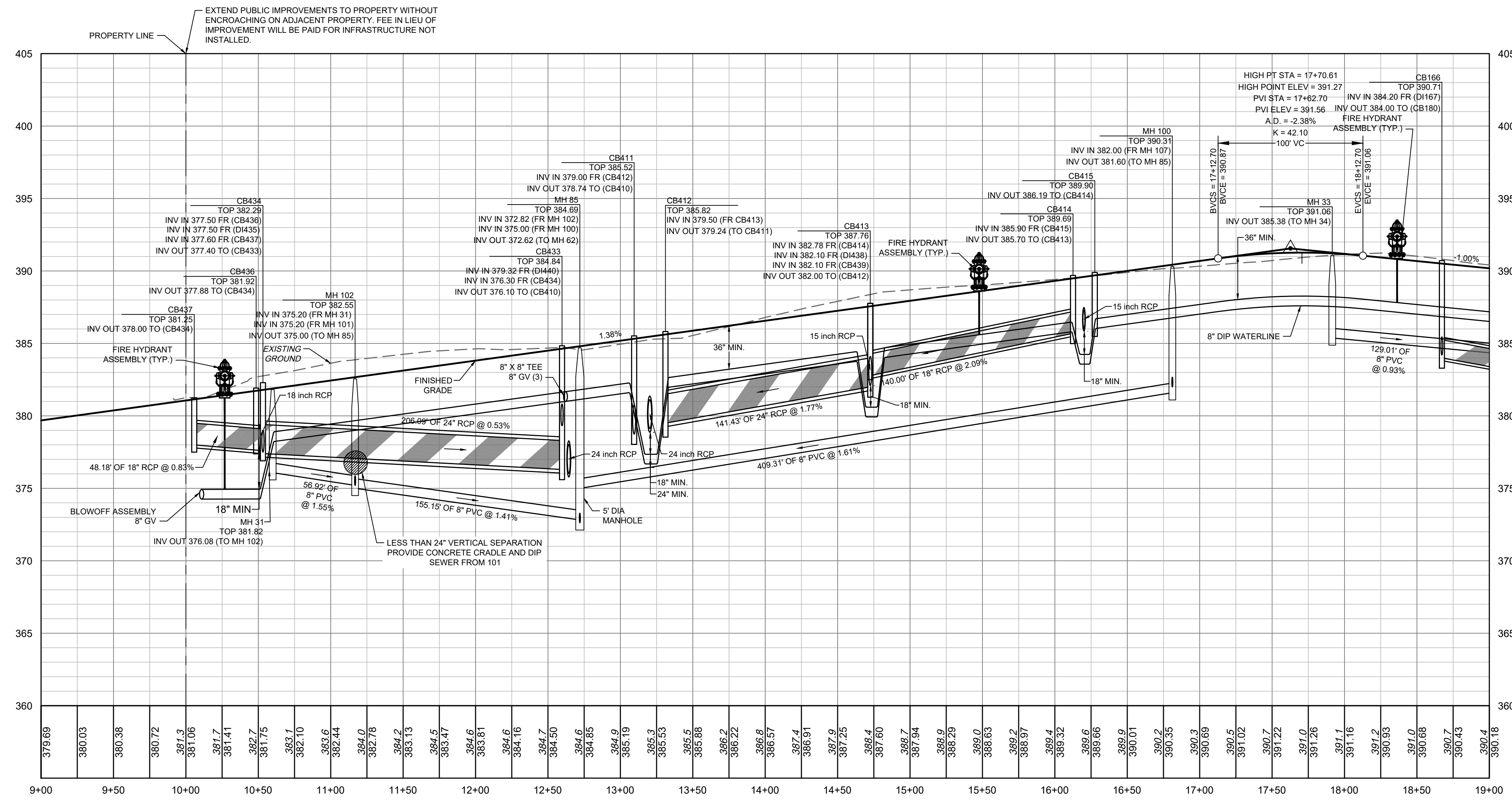
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S:\324\43398-Wheeler_Timed\DWG\Sheet\CD\43398-C2-10-PROF.dwg | Plotted on 12/22/2023 1:00 PM | by April Bye



DARE DR PLAN VIEW
STA 9+00 - 19+00



DARE DR PROFILE
STA 9+00 - 19+00

ATTENTION CONTRACTORS
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City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

YOUR VISION ACHIEVED THROUGH OURS.

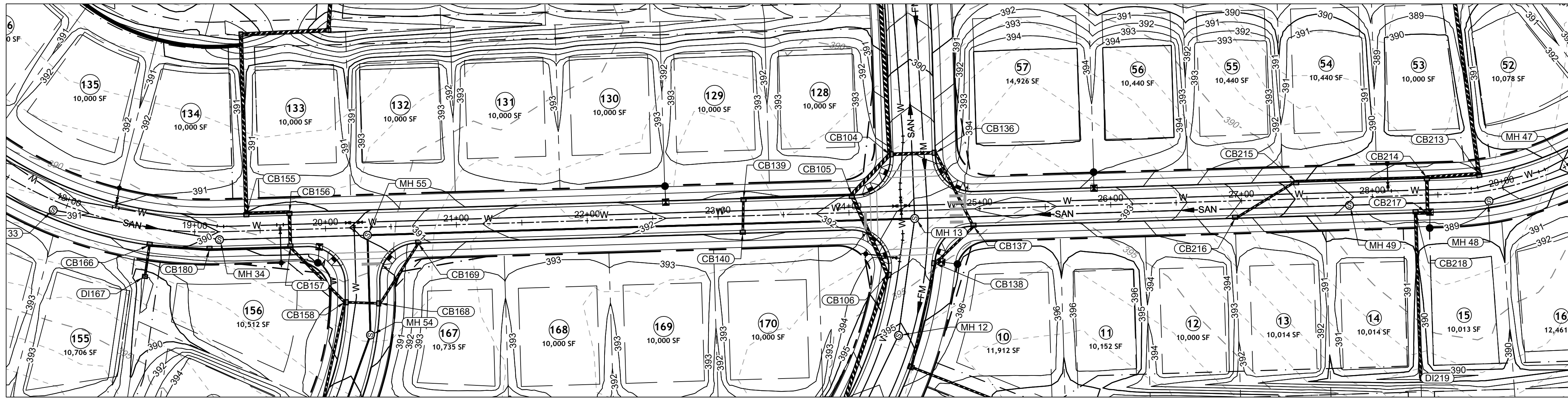
REVISION DESCRIPTION
REVISIONS PER WAKE COUNTY COMMENTS
CONSTRUCTION DOCUMENT SUBMITTAL
REVISIONS PER NCDOT COMMENTS
REVISIONS PER CITY OF RALEIGH COMMENTS
REVISIONS TO APPROVED PLANS

DATE	DRAWN BY
06/24/2022	R. WINGATE
07/22/2022	P. BARBEAU
04/06/2023	P. BARBEAU
09/06/2023	SCALE AS SHOWN
01/02/2024	

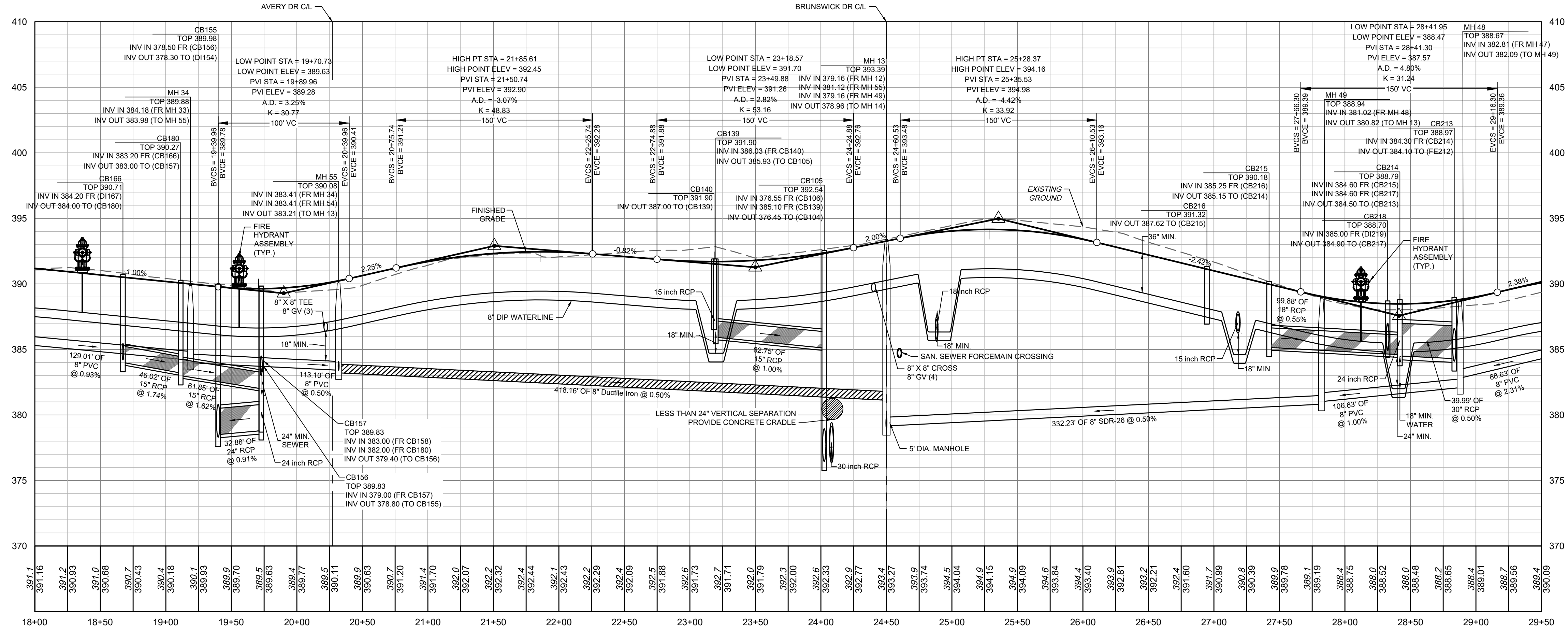
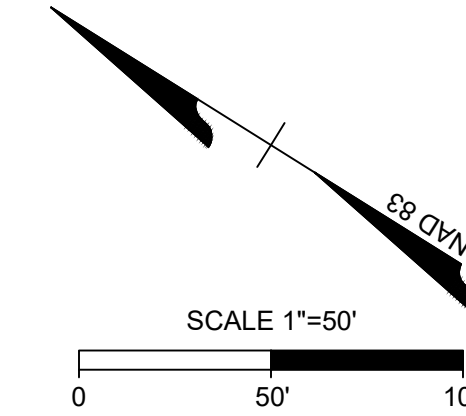
TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
ROAD 3 PLAN & PROFILE
JOB NO. 43398
SHEET NO. C2.15



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City of Raleigh Public Utilities Department Permit # _____

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City of Raleigh Development Approval _____
City of Raleigh Review Officer _____



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DATE	REVISION DESCRIPTION
06/24/2022	REVISED PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISED PER NCDOT COMMENTS
09/06/2023	REVISED PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISED TO APPROVED PLANS

DATE: 09/17/2021
DRAWN BY: R. WINGATE
DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

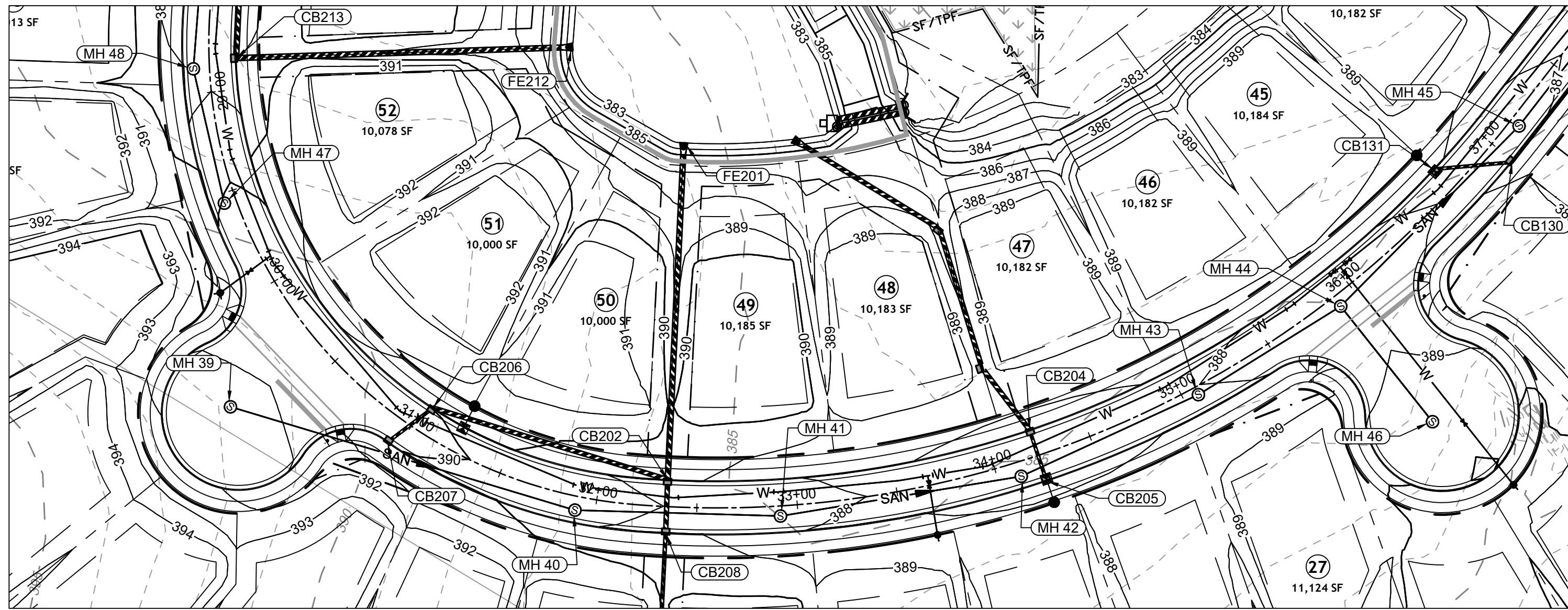
ROAD 3 PLAN & PROFILE

JOB NO. 43398
SHEET NO. C2.16

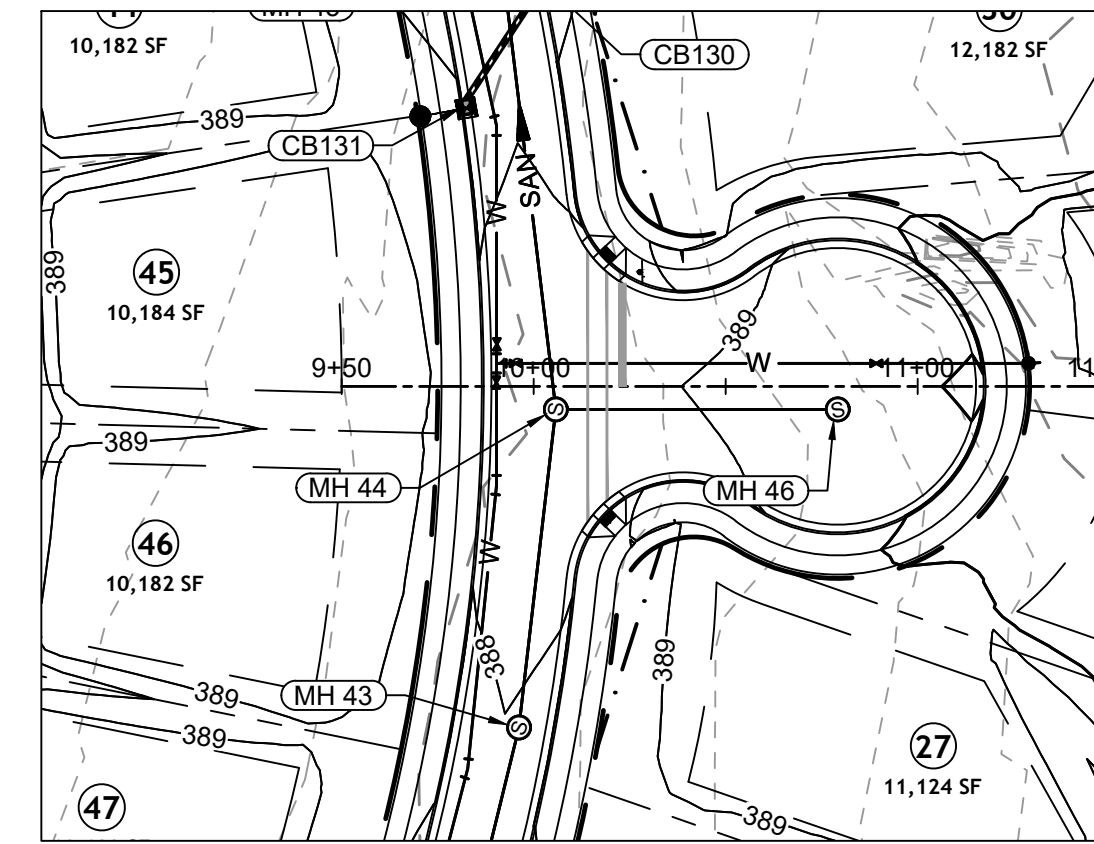
811

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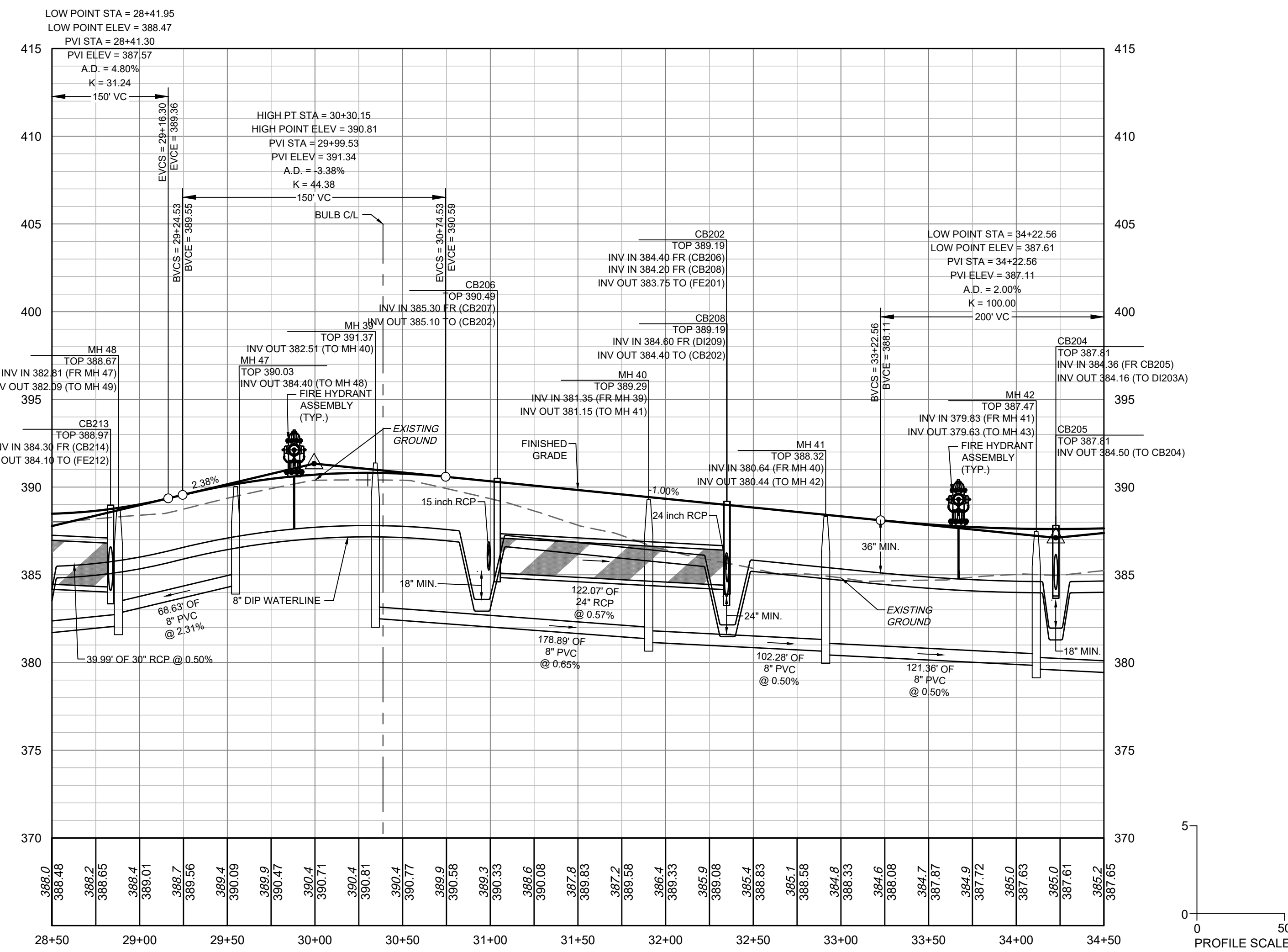
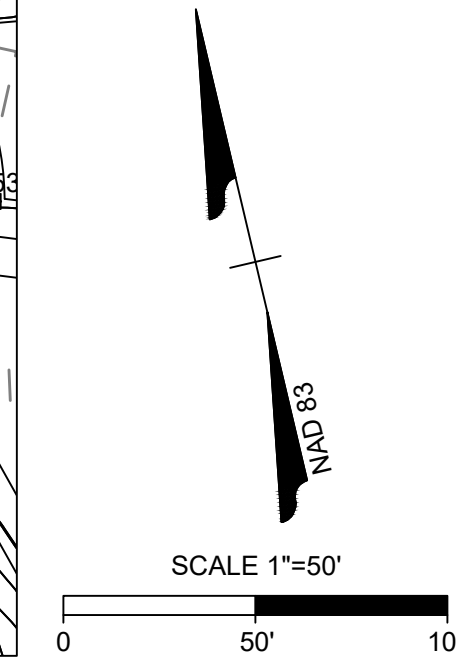
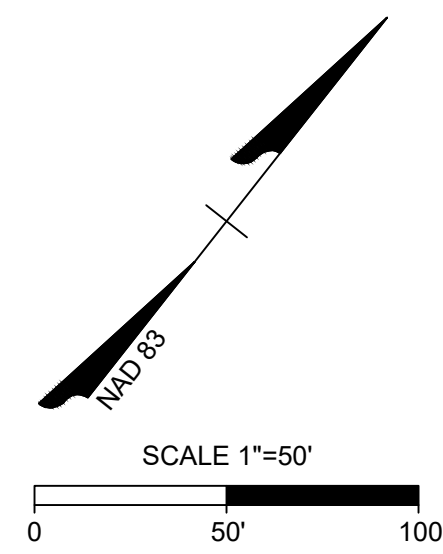
ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



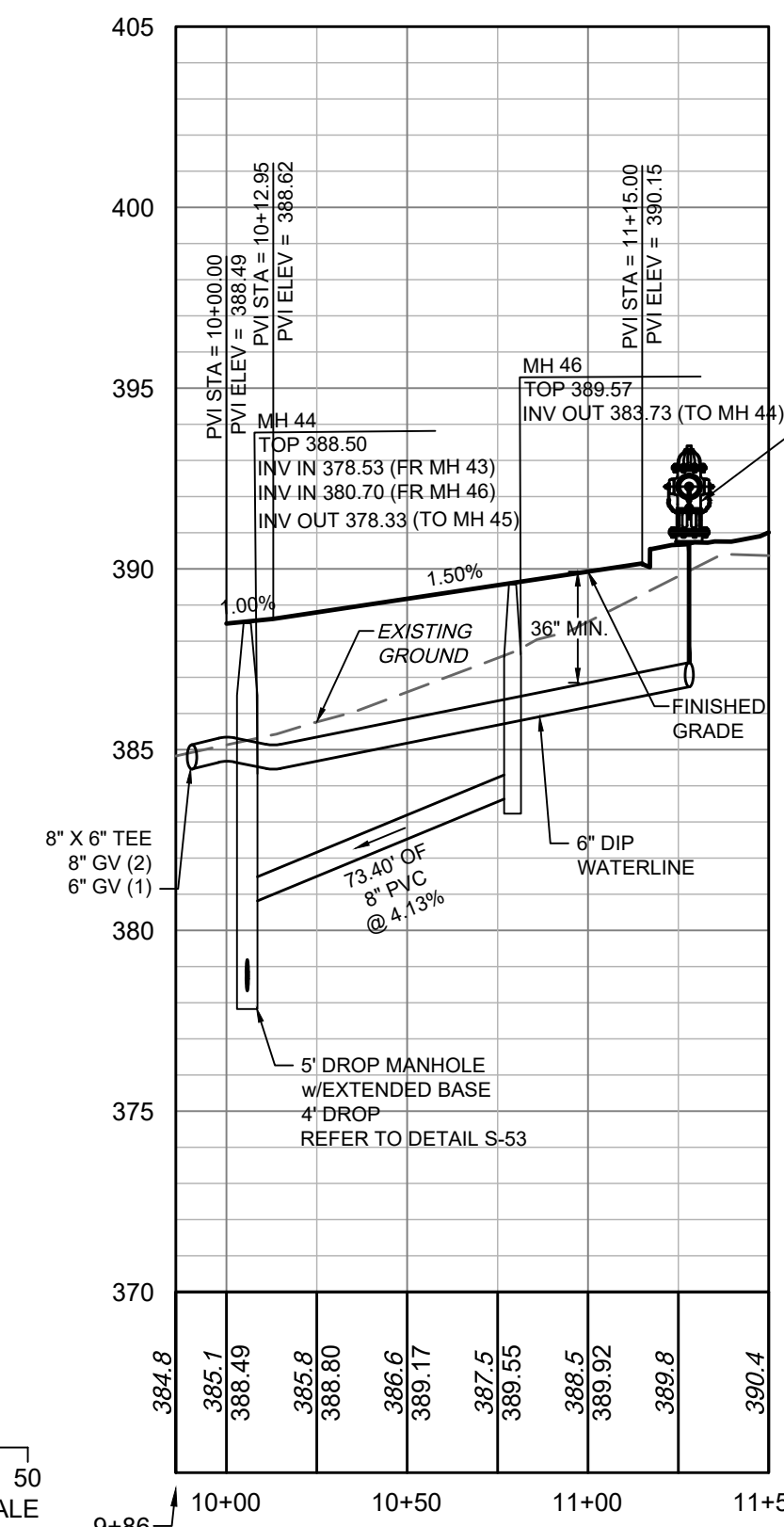
DARE DR PLAN VIEW
STA 28+50 - 34+50



WILKES LANE PLAN VIEW
STA 9+86 - 10+79.15



DARE DR PROFILE
STA 28+50 - 34+50



WILKES LANE PROFILE
STA 9+86 - 10+79.15

ATTENTION CONTRACTORS

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SITE PERMITTING APPROVAL

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City of Raleigh Development Approval _____
City of Raleigh Review Officer



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DATE 09/17/2021
DRAWN BY R. WINGATE
DESIGNED BY P. BARBEAU
CHECKED BY P. BARBEAU
SCALE AS SHOWN

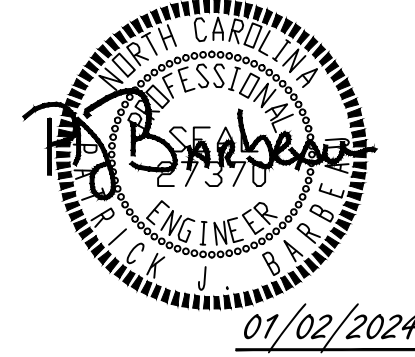
TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
ROADS 3 AND 7 PLAN & PROFILE

REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
CONSTRUCTION DOCUMENT SUBMITTAL	07/22/2022
REVISIONS PER NCDOT COMMENTS	04/06/2023
REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

JOB NO. 43398
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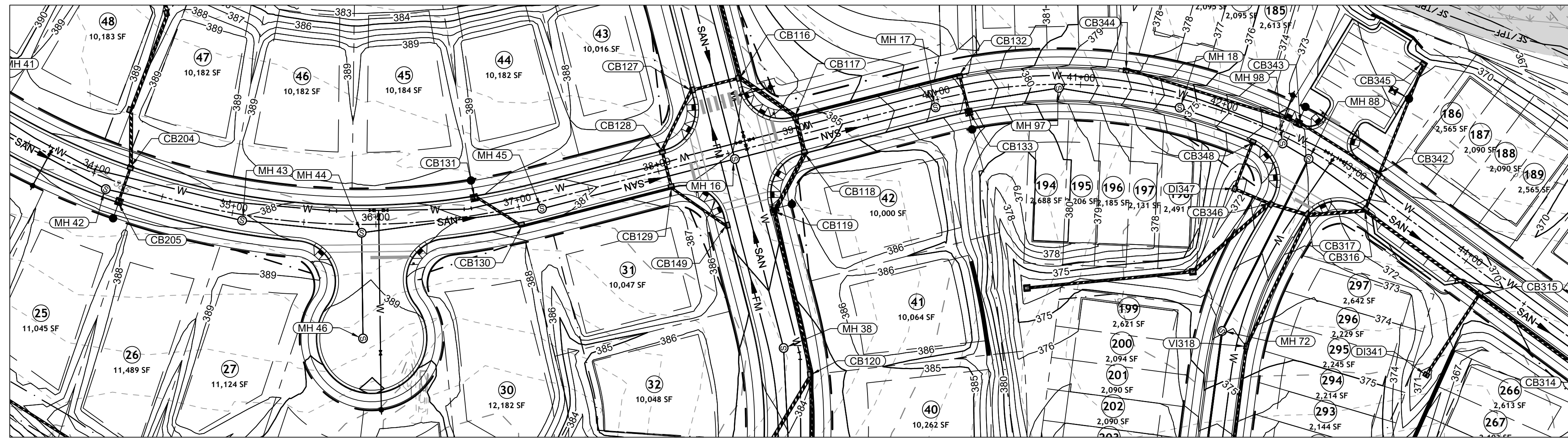
DATE	REVISION DESCRIPTION
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07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021
DRAWN BY
R. WINGATE
DESIGNED BY
P. BARBEAU
CHECKED BY
P. BARBEAU
SCALE
AS SHOWN

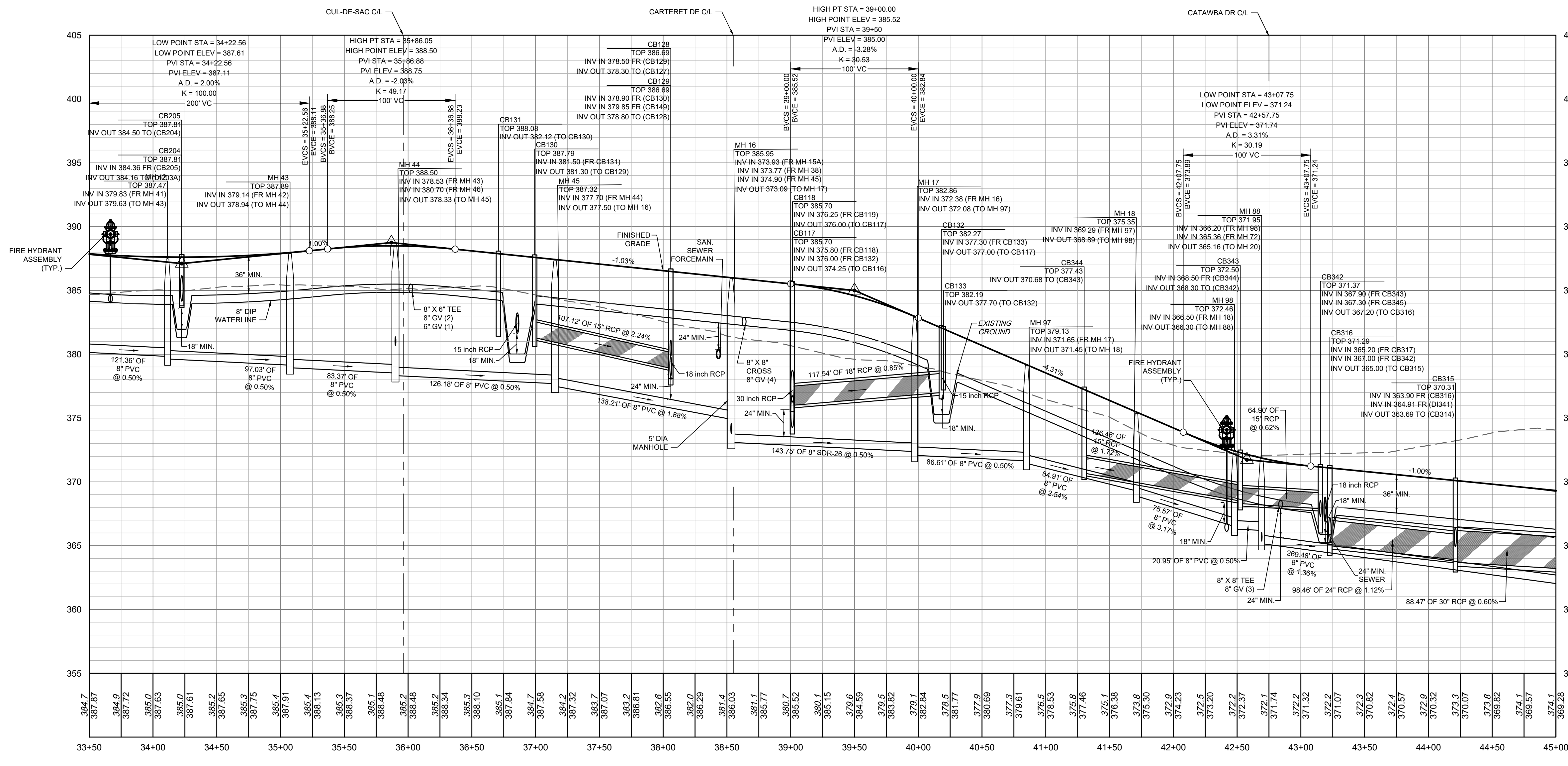
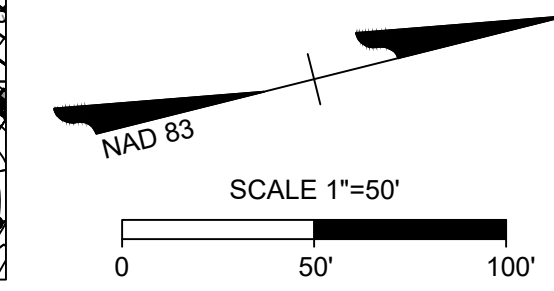
TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
ROAD 3 PLAN & PROFILE

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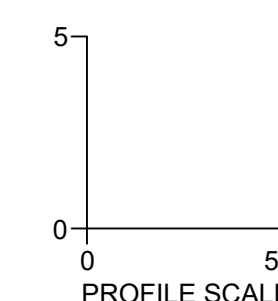
JOB NO.
43398
SHEET NO.
C2.18



DARE DR PLAN VIEW
STA 33+50 - 45+00



DARE DR PROFILE
STA 33+50 - 45+00



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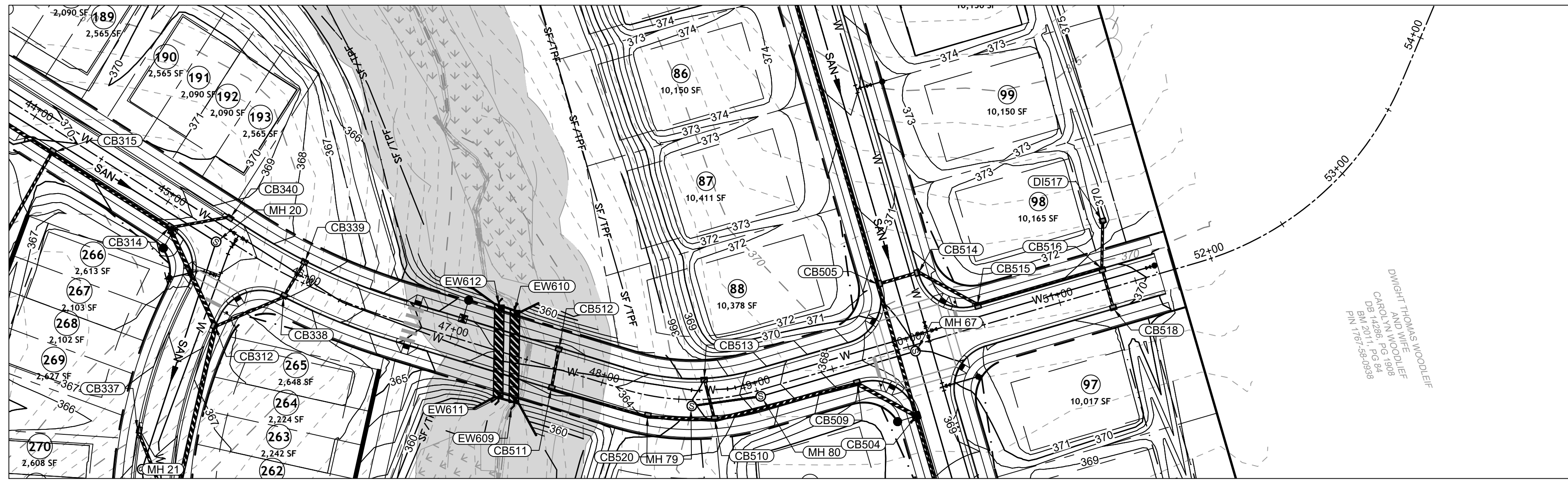
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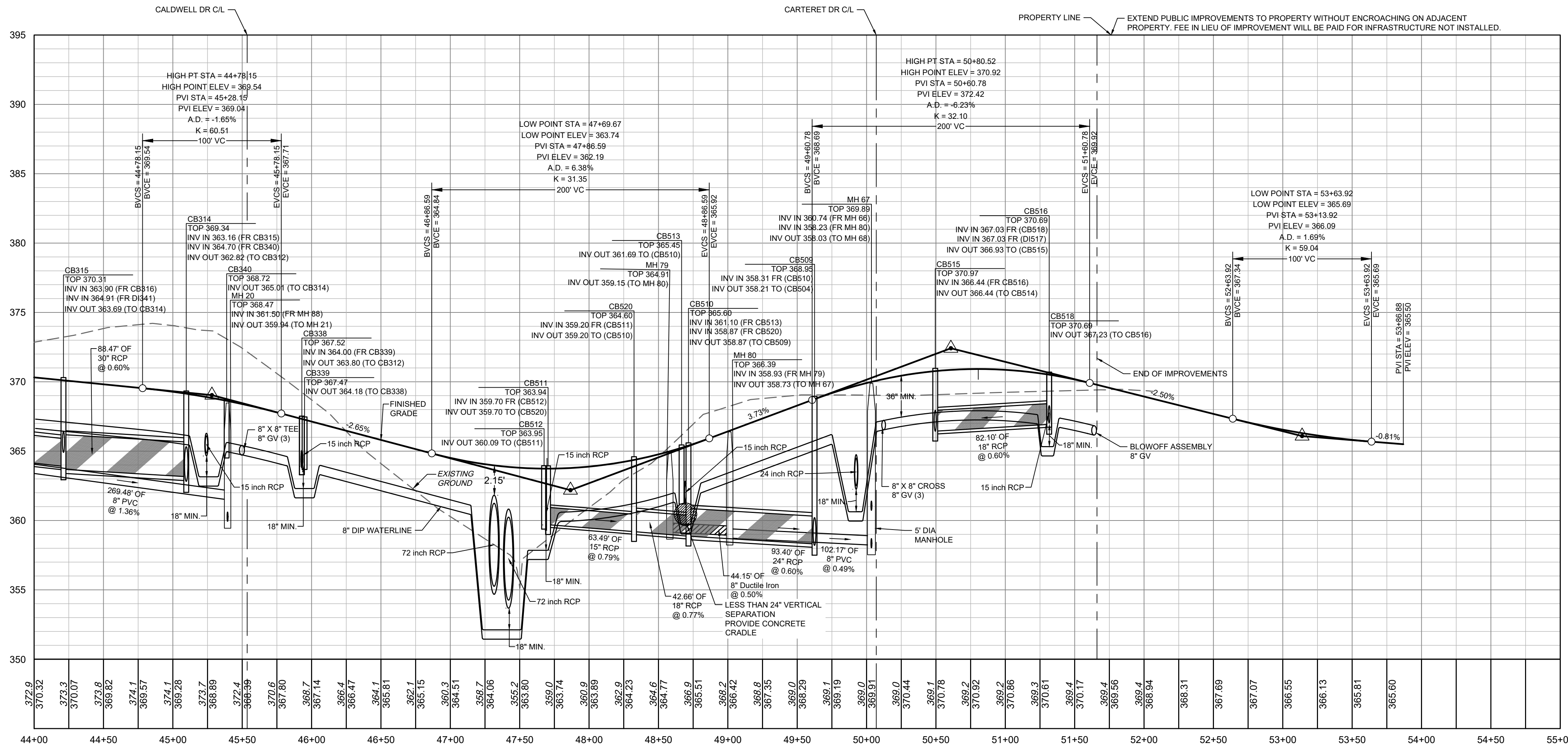
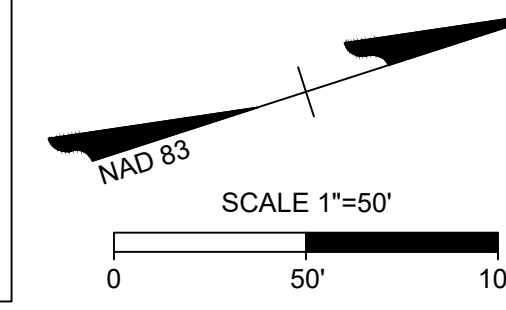
ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

811
KNOW WHAT'S BELOW.
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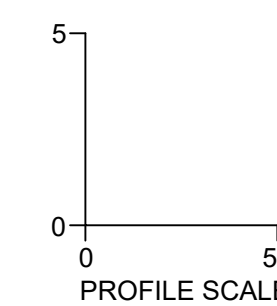
S:\32424398-Wheeler_Timed\DWG\Sheet\C21-18-PROF.dwg | Plotted on 12/22/2023 1:05 PM | by April Bye



DAVIE DR PLAN VIEW
STA 44+00 - 55+00



DAVIE DR PROFILE
STA 44+00 - 55+00



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DATE	REVISION DESCRIPTION
06/24/2022	REVISE PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISE PER NCDOT COMMENTS
09/06/2023	REVISE PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISE TO APPROVED PLANS

09/17/2021
DRAWN BY
R. WINGATE
DESIGNED BY
P. BARBEAU
CHECKED BY
P. BARBEAU
SCALE
AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
ROAD 3 PLAN & PROFILE

JOB NO.
43398
SHEET NO.
C2.19



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REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
CONSTRUCTION DOCUMENT SUBMITTAL	07/22/2022
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 SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

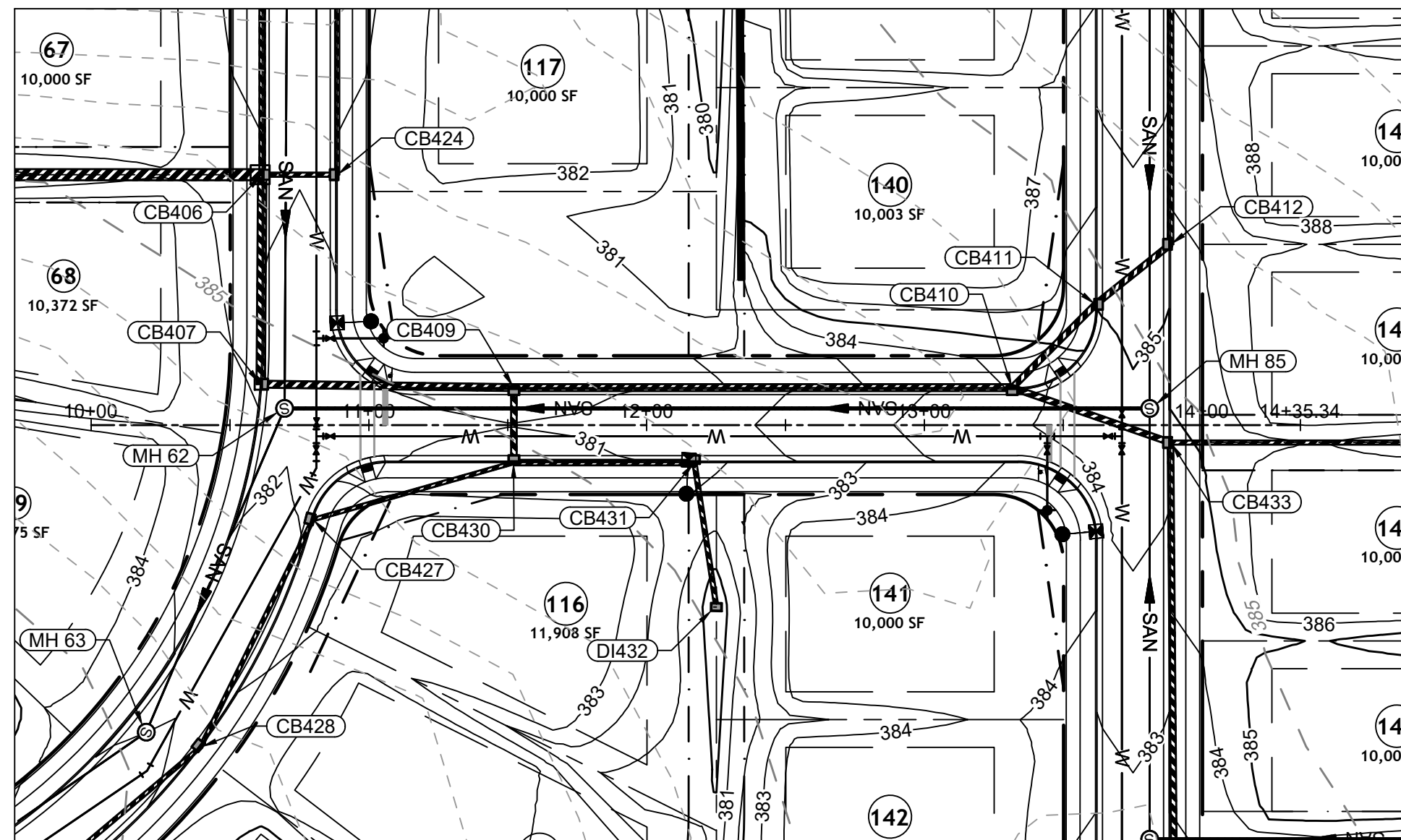
ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

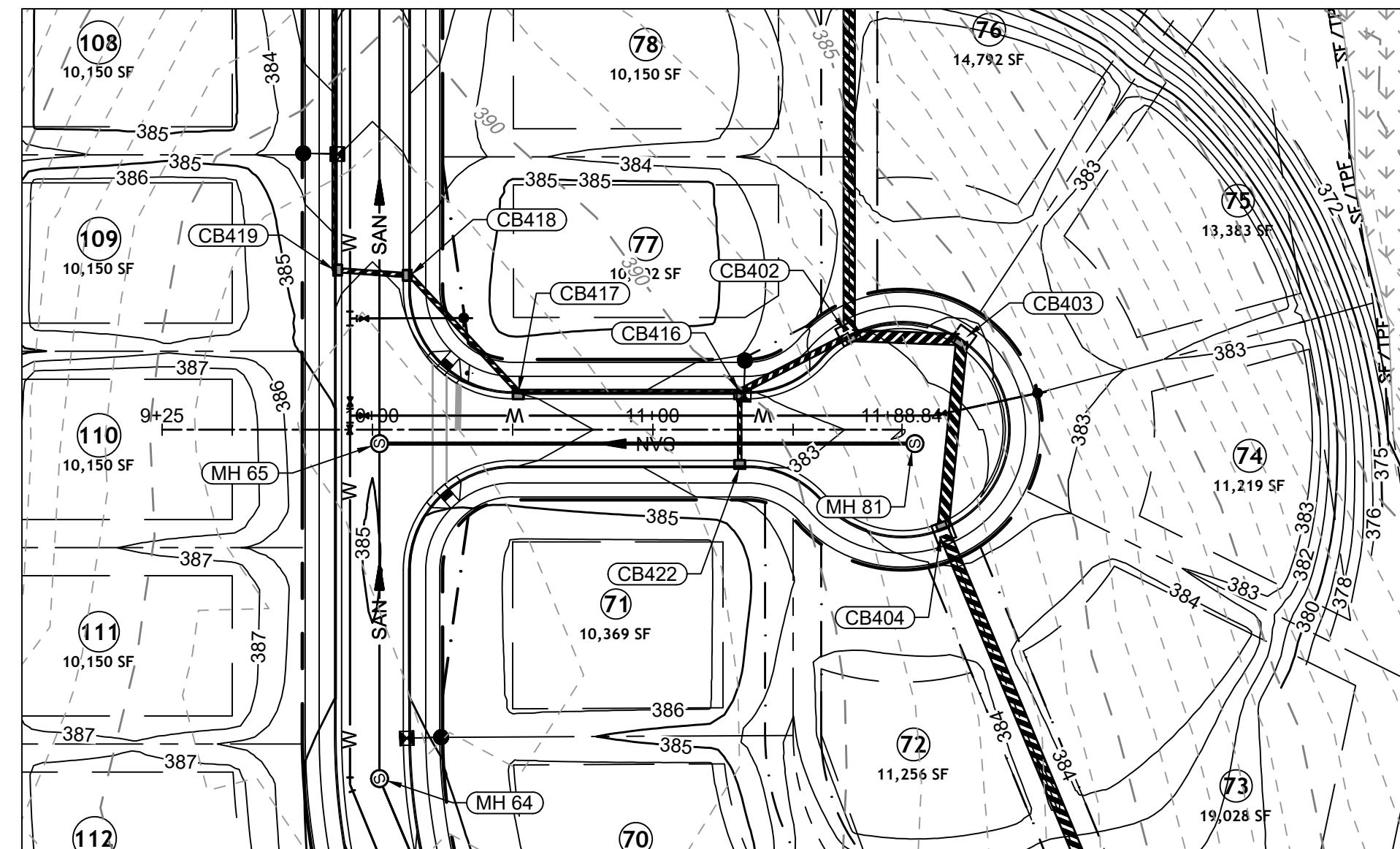
ROADS 4 AND 5 PLAN & PROFILE

JOB NO. 43398
 SHEET NO. C2.20

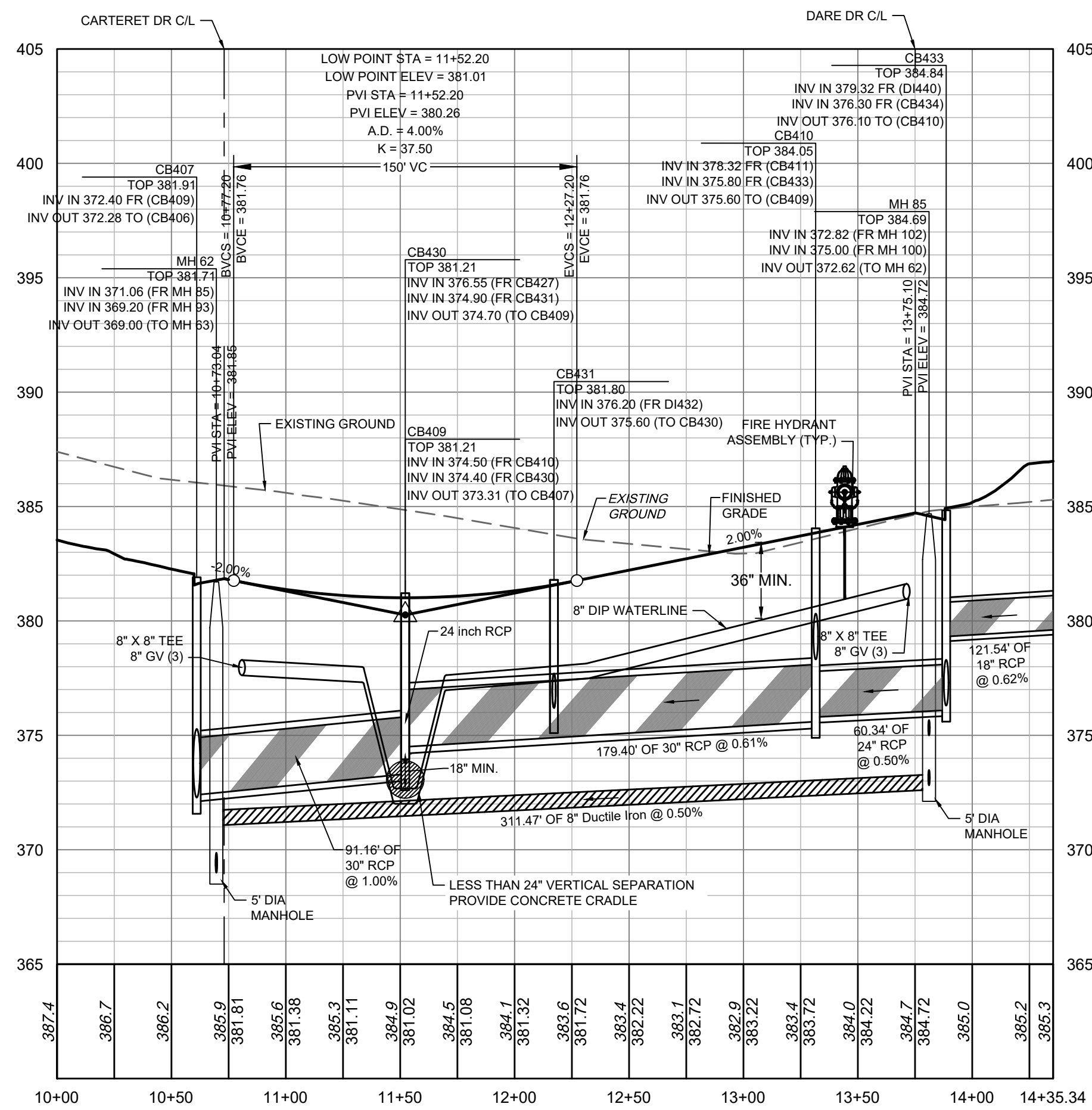
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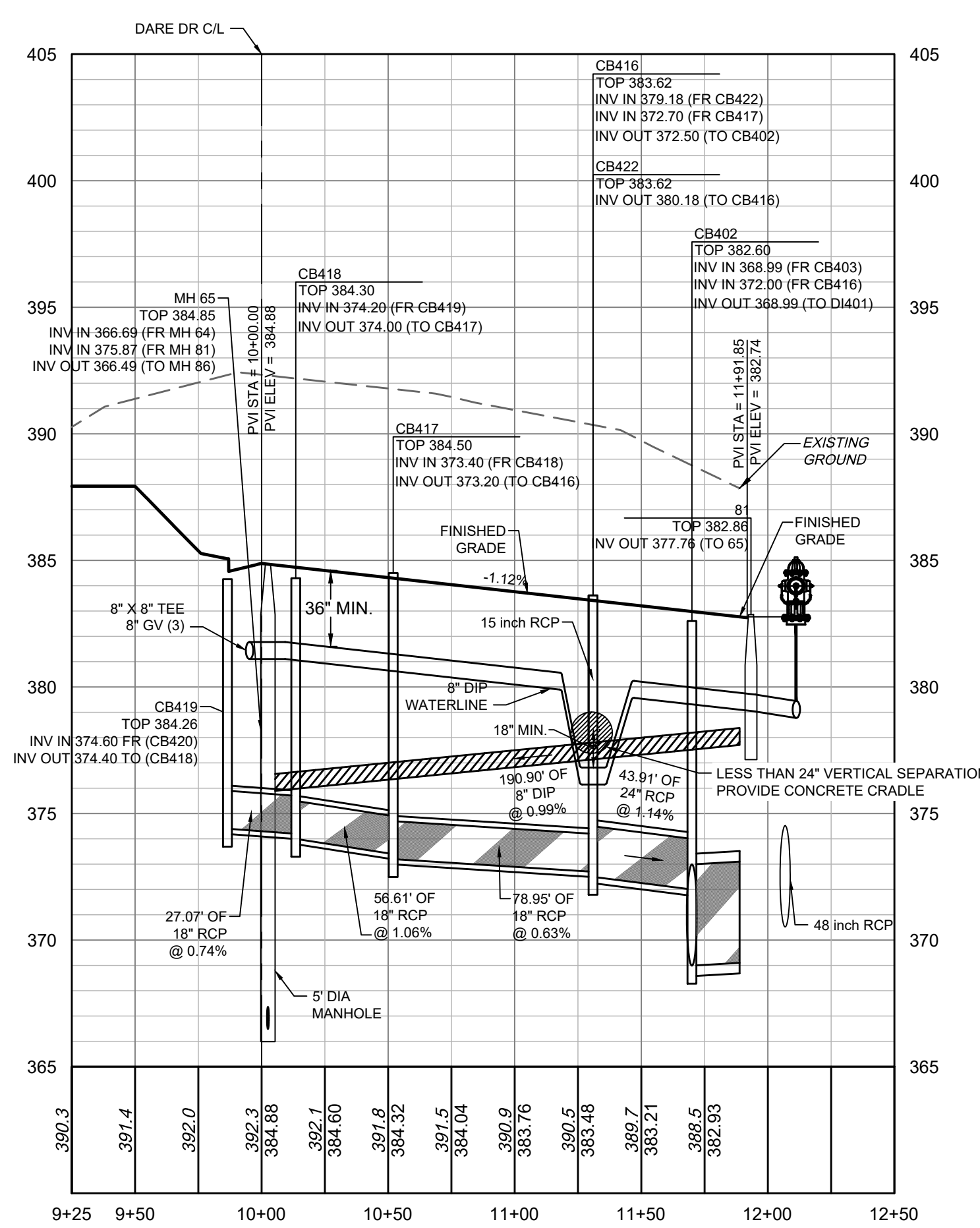
HYDE DR PLAN VIEW
 STA 10+00 - 14+35.34



PAMLICO LN PLAN VIEW
 STA 10+00 - 12+00



HYDE DR PROFILE
 STA 10+00 - 14+35.34



PAMLICO LN PROFILE
 STA 10+00 - 12+00

SEWER MAIN MATERIAL:

PVC SDR35	MIN. 3' TO 12' NON-TRAFFIC AREA; MIN. 5' TO 12' TRAFFIC AREA
PVC SDR26	12'-20' TRAFFIC AND NON-TRAFFIC AREAS
DIP	MIN. 3' TO 5' TRAFFIC AREA (CLASS 1 BEDDING); GREATER THAN 20' WITH DIRECTOR APPROVAL

NOTE: ANY SEWER DEEPER THAN 12' REQUIRES SDR-26 OR DIP SEWER PIPE AND 5' DIAMETER MANHOLES. SEWER DEEPER THAN 20' REQUIRES 6' DIAMETER MANHOLES AND DIP SEWER PIPE.

ATTENTION CONTRACTORS

THE CONSTRUCTION CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER AND/OR REUSE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE PUBLIC UTILITIES DEPARTMENT AT (919) 996-2400, AND THE CITY DEPARTMENTS AT (919) 996-4540 AT LEAST TWENTY FOUR HOURS PRIOR TO BEGINNING ANY OF THEIR CONSTRUCTION.

FAILURE TO NOTIFY BOTH CITY DEPARTMENTS IN ADVANCE OF BEGINNING CONSTRUCTION, WILL RESULT IN THE ISSUANCE OF MONETARY FINES, AND REQUIRE REINSTALLATION OF ANY WATER OR SEWER FACILITIES NOT INSPECTED AS A RESULT OF THIS NOTIFICATION FAILURE.

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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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City of Raleigh Public Utilities Department Permit # _____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

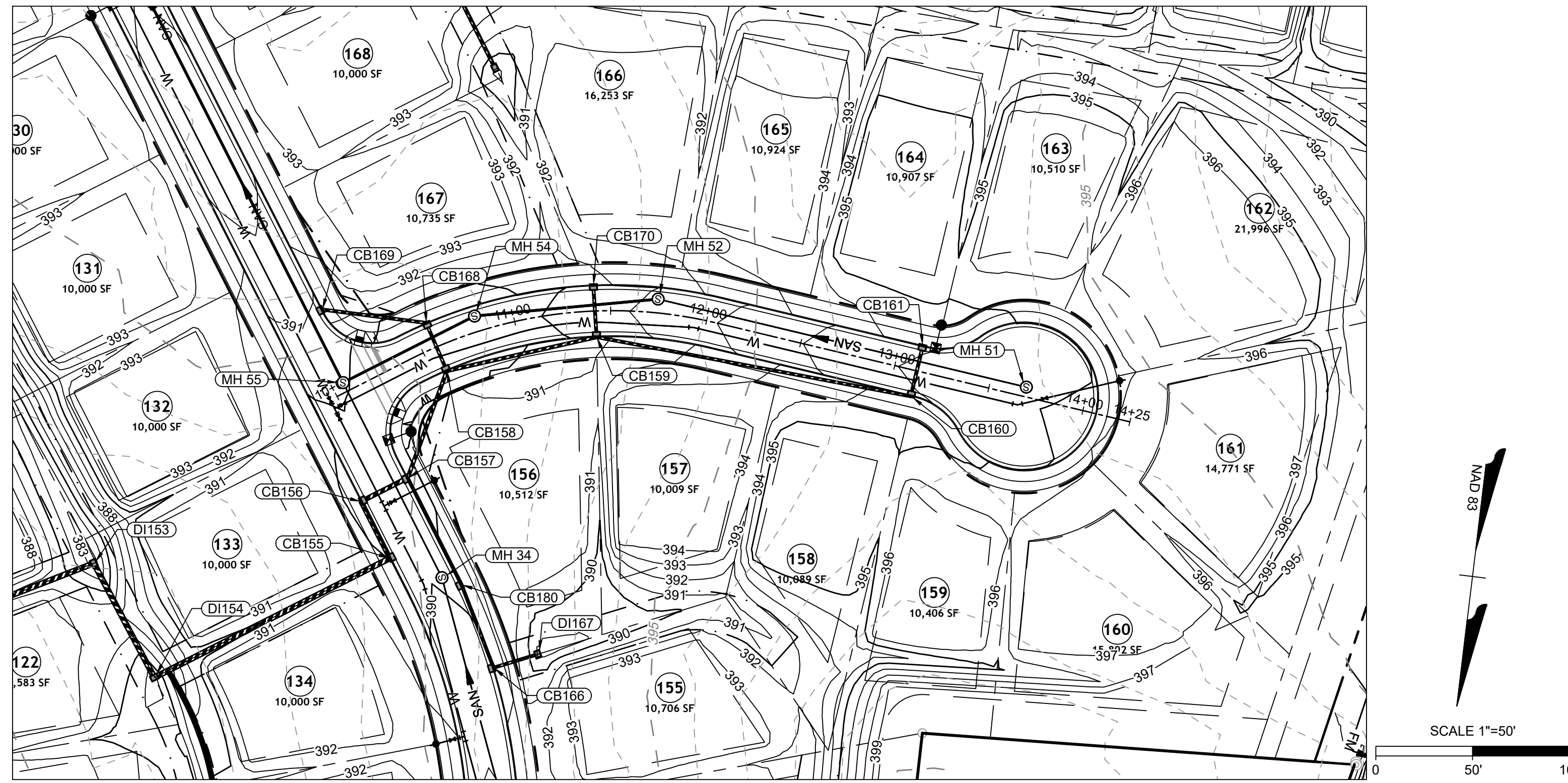
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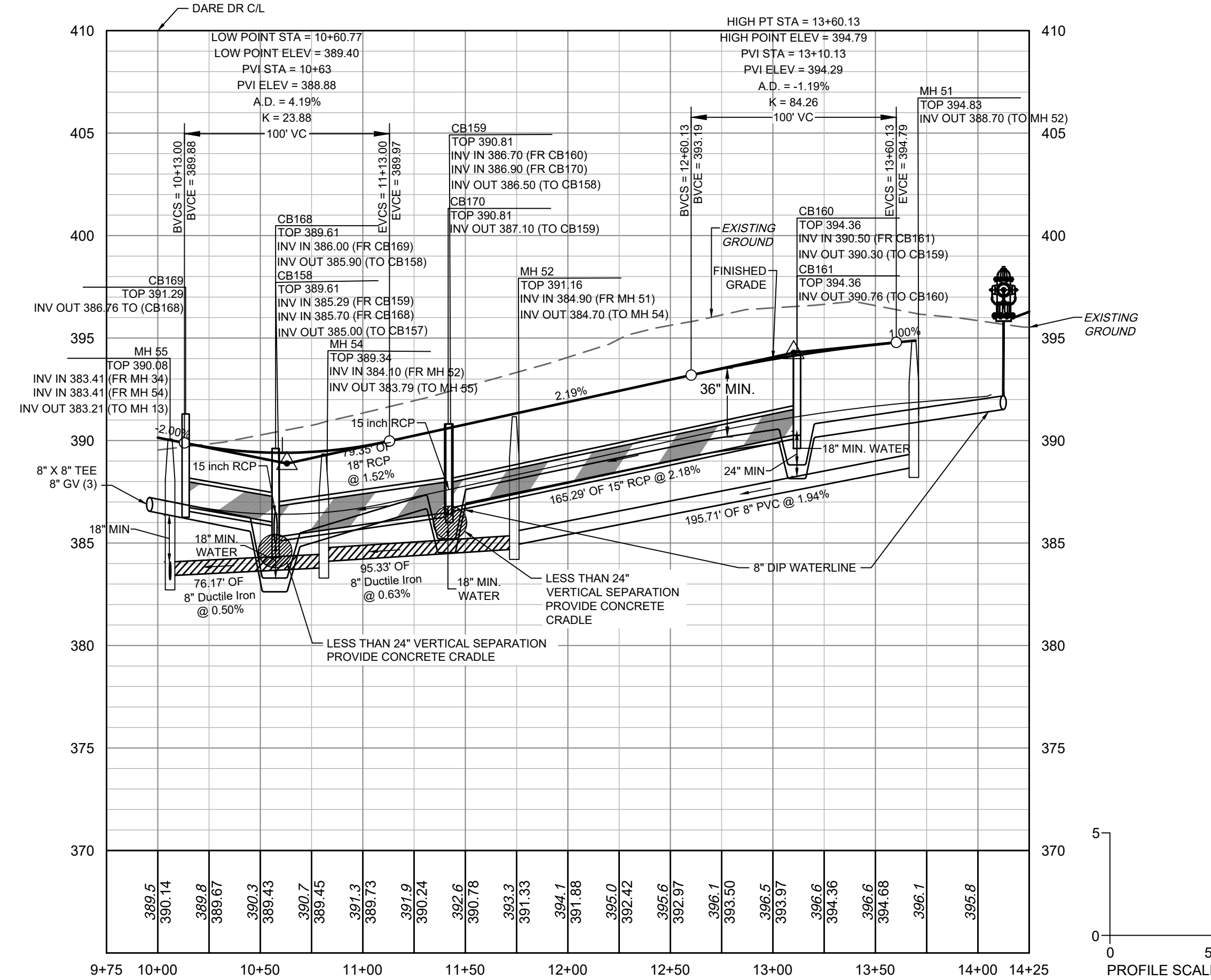
City of Raleigh Development Approval _____

City of Raleigh Review Officer _____

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



AVERY DRIVE PLAN VIEW
STA 10+00 - 13+68.74



AVERY DRIVE PROFILE
STA 10+00 - 13+68.74

NOTE: ANY SEWER DEEPER THAN 12' REQUIRES SDR-26 OR DIP SEWER PIPE AND 5' DIAMETER MANHOLES. SEWER DEEPER THAN 20' REQUIRES 6' DIAMETER MANHOLES AND DIP SEWER PIPE.

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City of Raleigh Public Utilities Department Permit # _____

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City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NC DEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



THIS DRAWING PREPARED AT THE
RALEIGH OFFICE
5410 Trinity Road, Suite 102 | Raleigh, NC 27607
TEL 919.866.4951 | FAX 919.833.8124 | www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
06/24/2022	REVISIONS PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

DATE: 09/17/2021
DRAWN BY: R. WINGATE
DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

TIMMONS GROUP

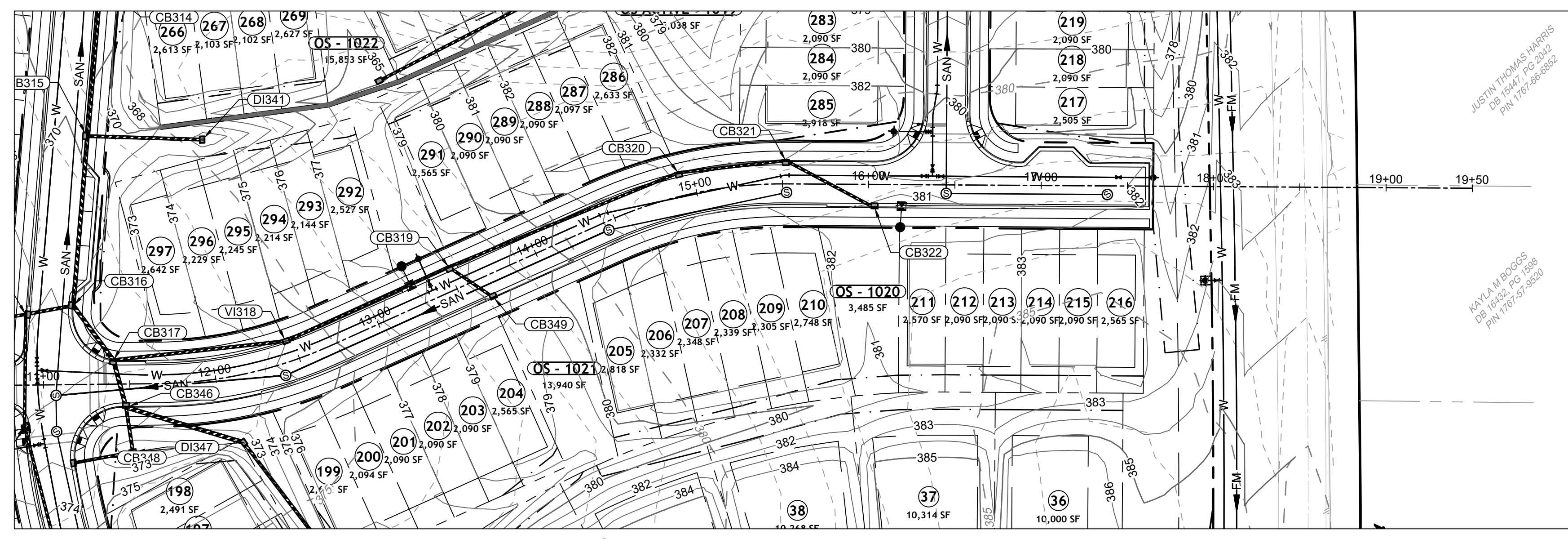
NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

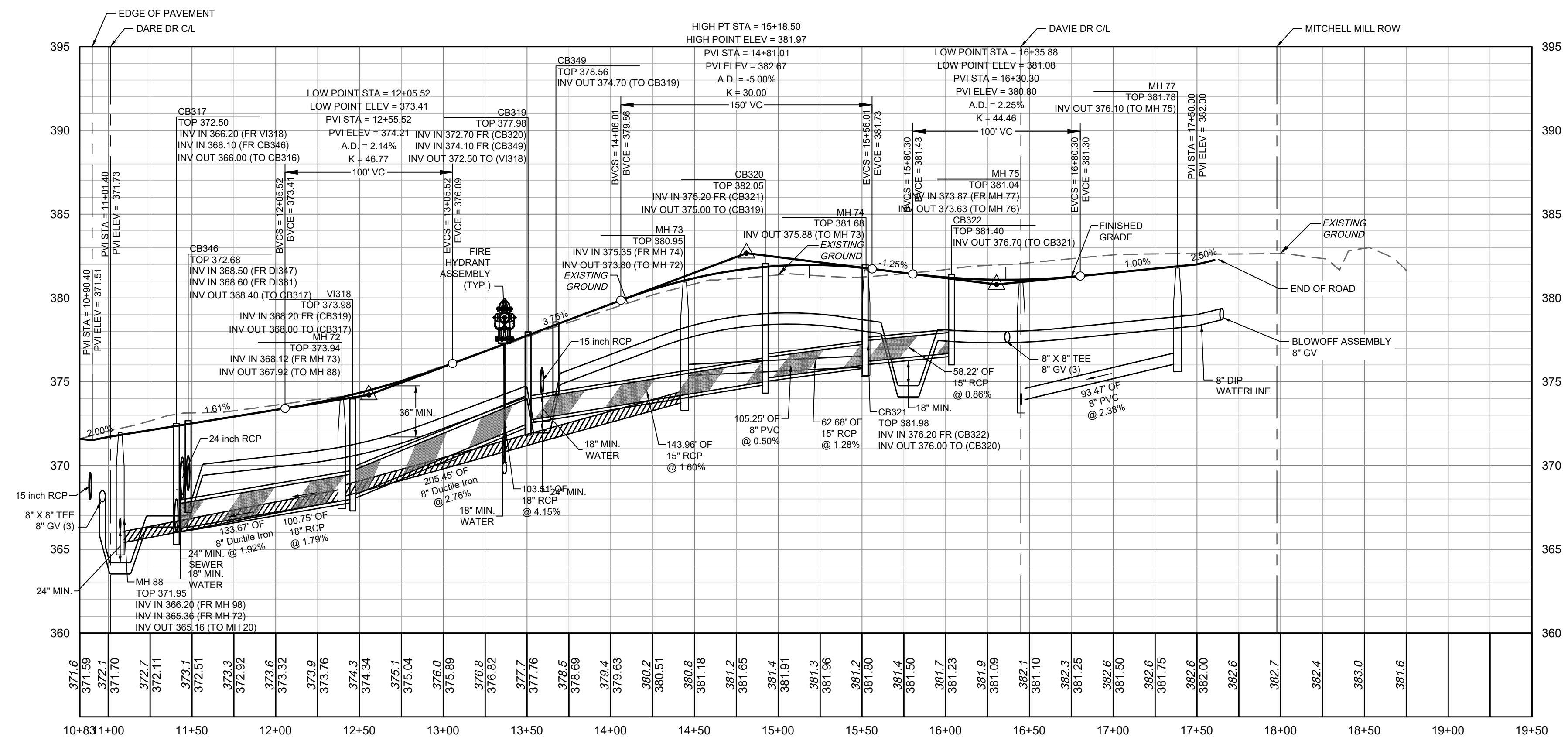
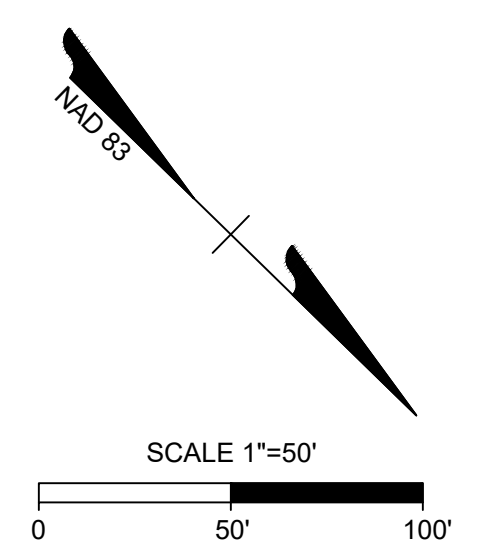
ROAD 6 PLAN & PROFILE

JOB NO. 43398
SHEET NO. C.21

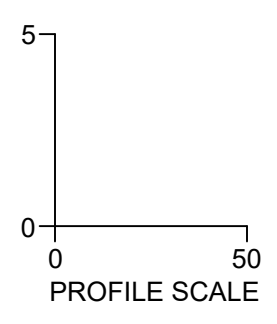
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CATAWBA DR PLAN VIEW
STA 10+83 - 19+50



CATAWBA DR PROFILE
STA 10+83 - 19+50



SEWER MAIN MATERIAL:

PVC SDR35	MIN. 3' TO 12' NON-TRAFFIC AREA; MIN. 5' TO 12' TRAFFIC AREA
PVC SDR26	12'-20' TRAFFIC AND NON-TRAFFIC AREAS
DIP	MIN. 3' TO 5' TRAFFIC AREA (CLASS 1 BEDDING); GREATER THAN 20' WITH DIRECTOR APPROVAL

NOTE: ANY SEWER DEEPER THAN 12' REQUIRES SDR-26 OR DIP SEWER PIPE AND 5' DIAMETER MANHOLES. SEWER DEEPER THAN 20' REQUIRES 6' DIAMETER MANHOLES AND DIP SEWER PIPE.

ATTENTION CONTRACTORS

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SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)

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City of Raleigh Public Utilities Department Permit # _____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval _____
City of Raleigh Review Officer _____

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NC DEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

ROAD 8 PLAN & PROFILE

YOUR VISION ACHIEVED THROUGH OURS.

DATE: 06/24/2022
DATE: 07/22/2022
DATE: 04/06/2023
DATE: 09/06/2023
DATE: 01/02/2024

REVISION DESCRIPTION
REVISIONS PER WAKE COUNTY COMMENTS
CONSTRUCTION DOCUMENT SUBMITTAL
REVISIONS PER CITY OF RALEIGH COMMENTS
REVISIONS TO APPROVED PLANS

DATE: 09/17/2021
DRAWN BY: R. WINGATE
DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

JOB NO. 43398
SHEET NO. C2.22



THIS DRAWING PREPARED AT THE
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YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
06/24/2022	REVISIONS PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

DATE: 09/17/2021
 DRAWN BY: R. WINGATE
 DESIGNED BY: P. BARBEAU
 CHECKED BY: P. BARBEAU
 SCALE: AS SHOWN

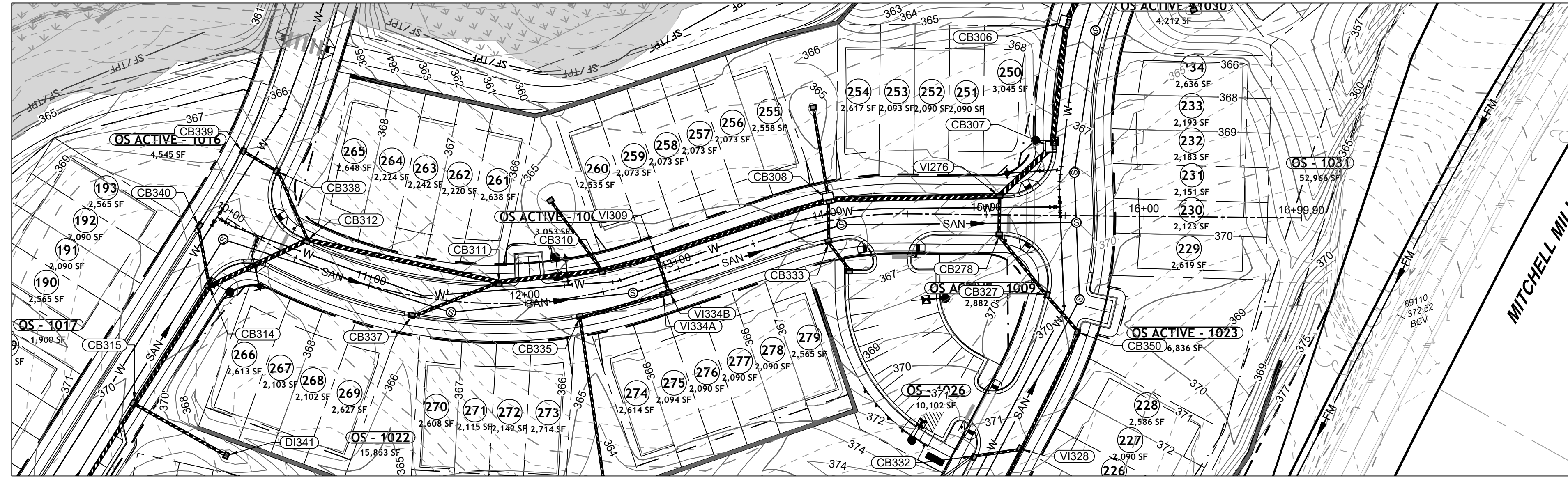
TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

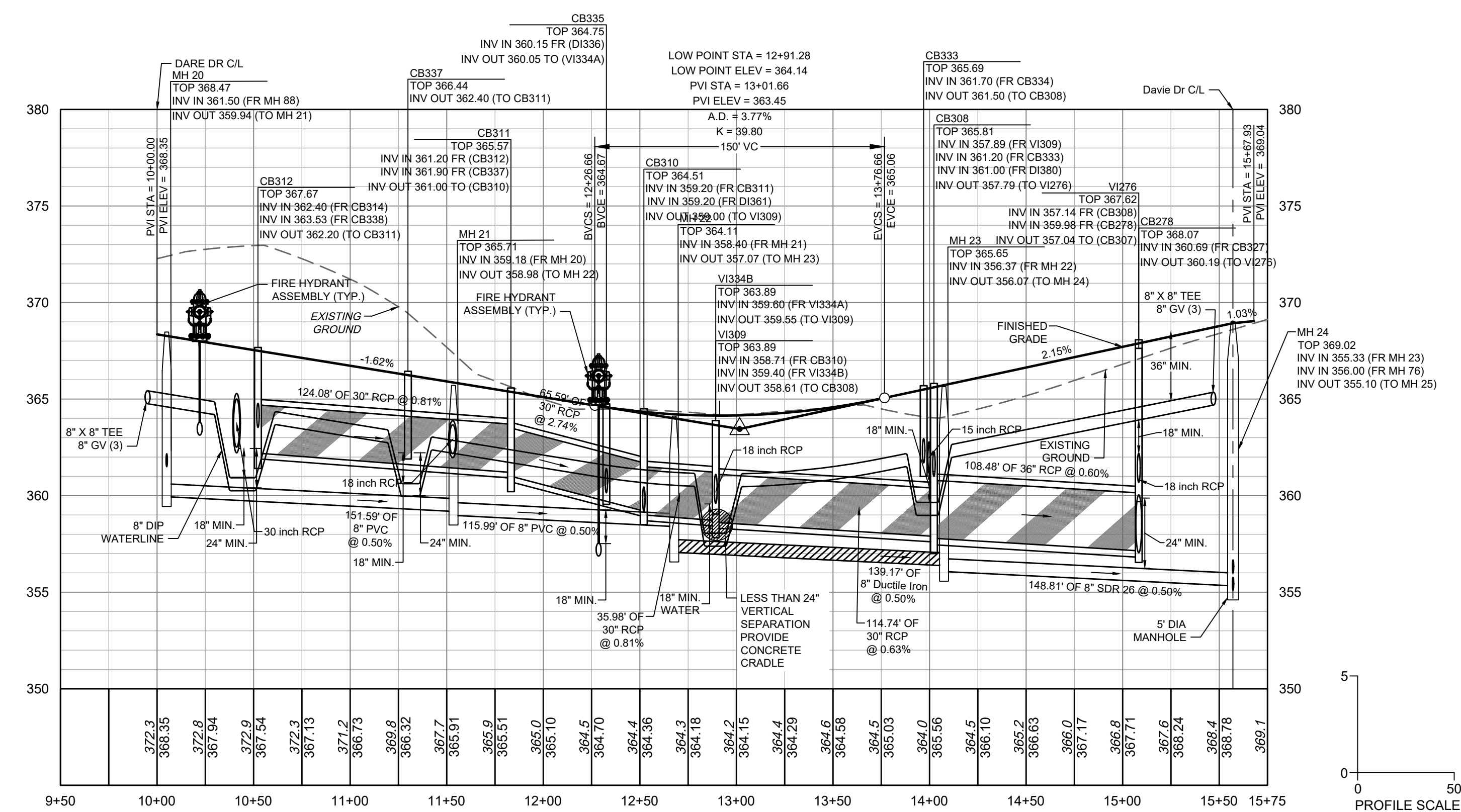
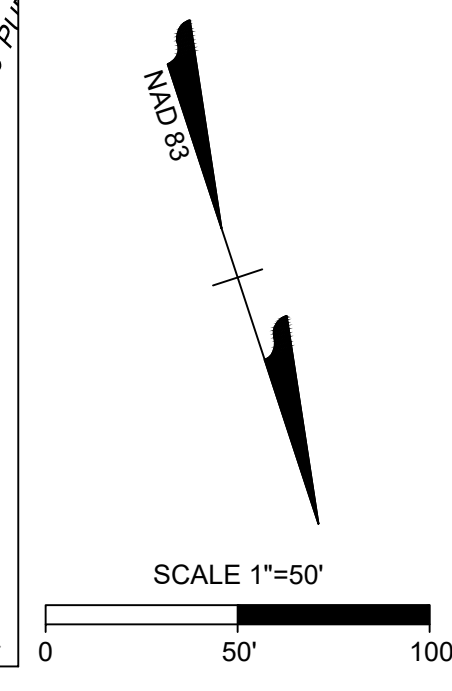
ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
 ROAD 9 PLAN & PROFILE

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JOB NO.
43398
 SHEET NO.
C.23



CALDWELL DR PLAN VIEW
 STA 10+00 - 17+00



CALDWELL DR PROFILE
 STA 10+00 - 17+00

NOTE: ANY SEWER DEEPER THAN 12' REQUIRES SDR-26 OR DIP SEWER PIPE AND 5' DIAMETER MANHOLES. SEWER DEEPER THAN 20' REQUIRES 6' DIAMETER MANHOLES AND DIP SEWER PIPE.

SEWER MAIN MATERIAL:	
PVC SDR35	MIN. 3' TO 12' NON-Traffic AREA; MIN. 5' TO 12' TRAFFIC AREA
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DIP	MIN. 3' TO 5' TRAFFIC AREA (CLASS 1 BEDDING); GREATER THAN 20' WITH DIRECTOR APPROVAL

ATTENTION CONTRACTORS

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SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)

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City of Raleigh Public Utilities Department Permit # _____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

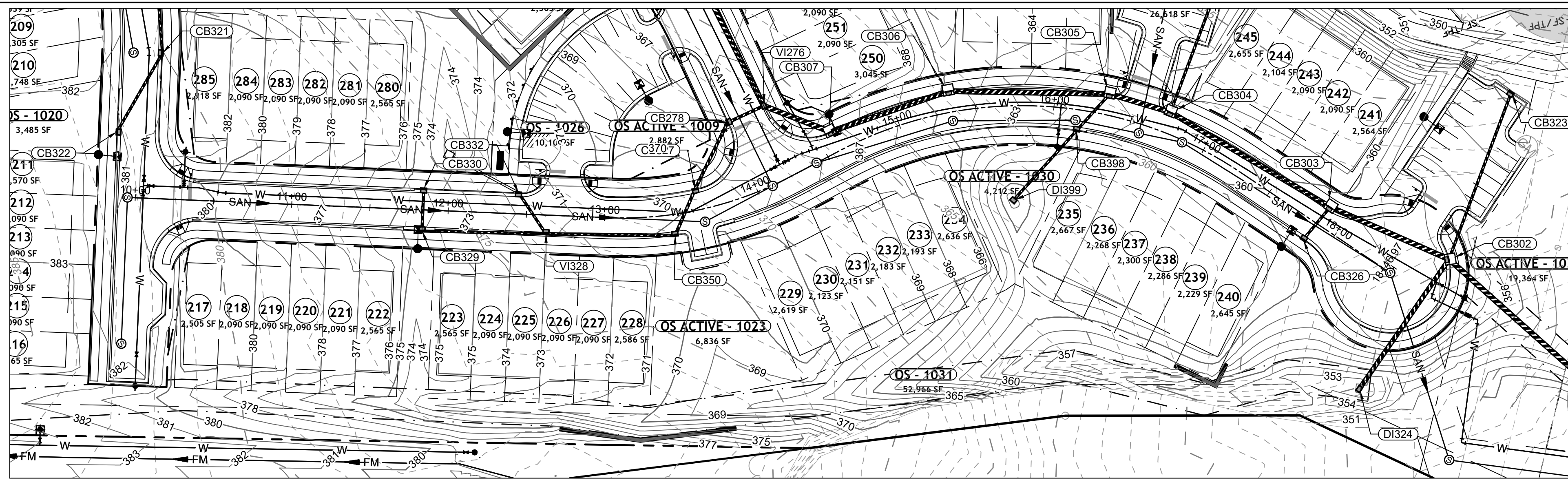
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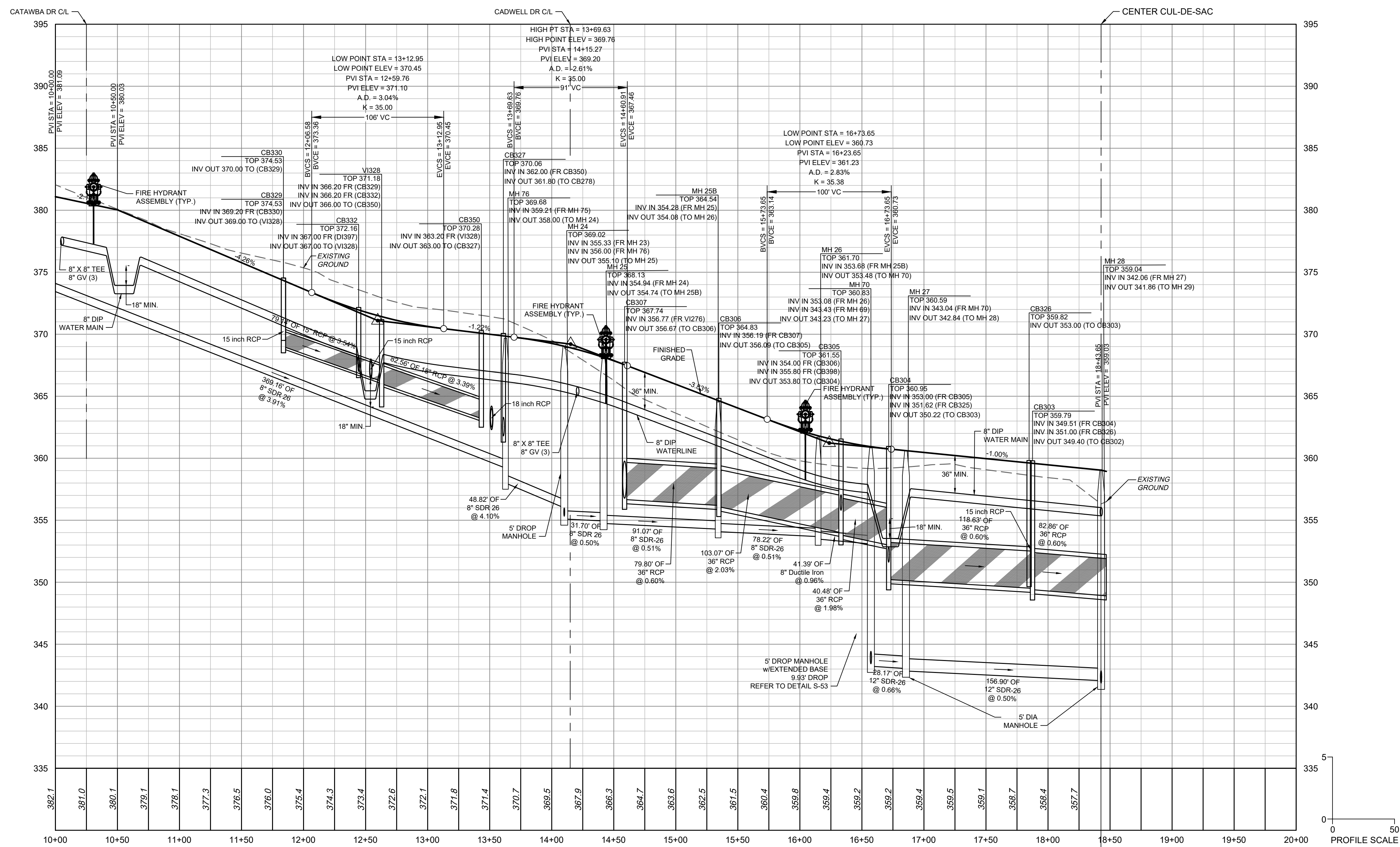
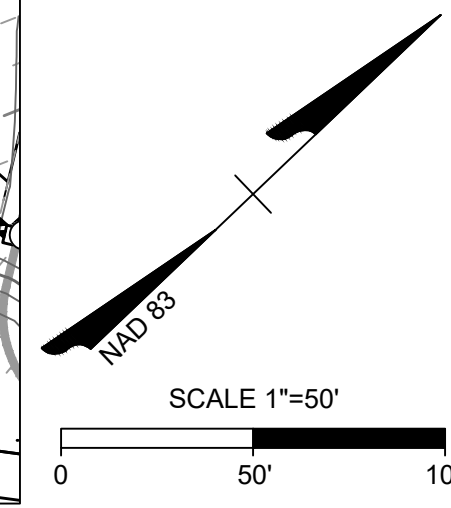
City of Raleigh Development Approval _____
 City of Raleigh Review Officer _____

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

S:\324\3398\Wheeler_Timed\DWG\SheetCD\43398\C-23-PRDF.dwg | Plotted on 12/22/2023 1:12 PM | by April Bye



DAVIE DR PLAN VIEW
STA 10+00 - 19+79.38



DAVIE DR PROFILE
STA 10+00 - 19+79.38

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City of Raleigh Public Utilities Department Permit # _____

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City of Raleigh Review Officer

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TEL 919.866.9511 FAX 919.833.8124 www.timmons.com

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REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
CONSTRUCTION DOCUMENT SUBMITTAL	07/22/2022
REVISIONS PER NCDOT COMMENTS	04/06/2023
REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024

DATE: 09/17/2021
DRAWN BY: R. WINGATE
DESIGNED BY: P. BARBEAU
CHECKED BY: P. BARBEAU
SCALE: AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

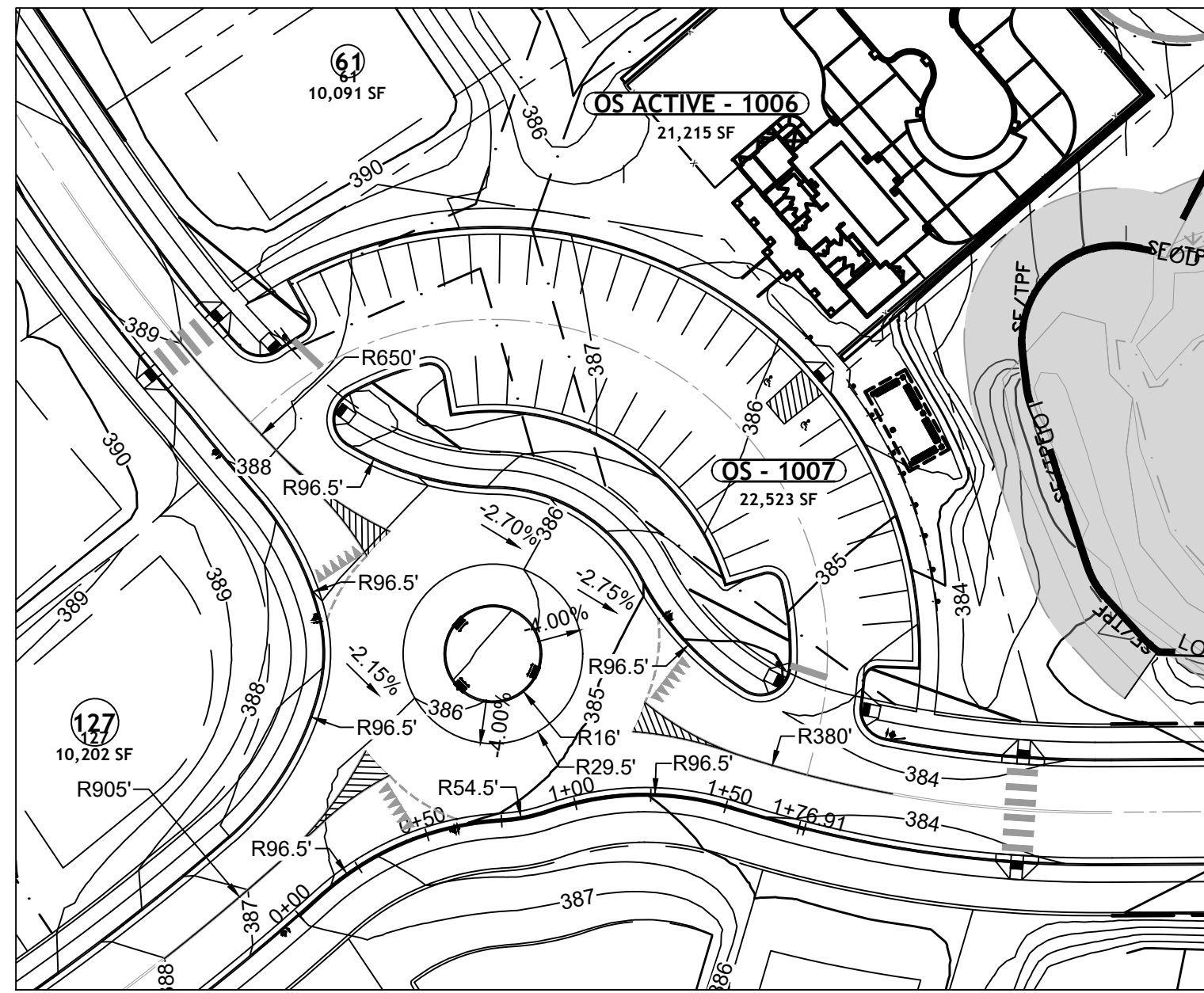
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

ROAD 10 PLAN & PROFILE

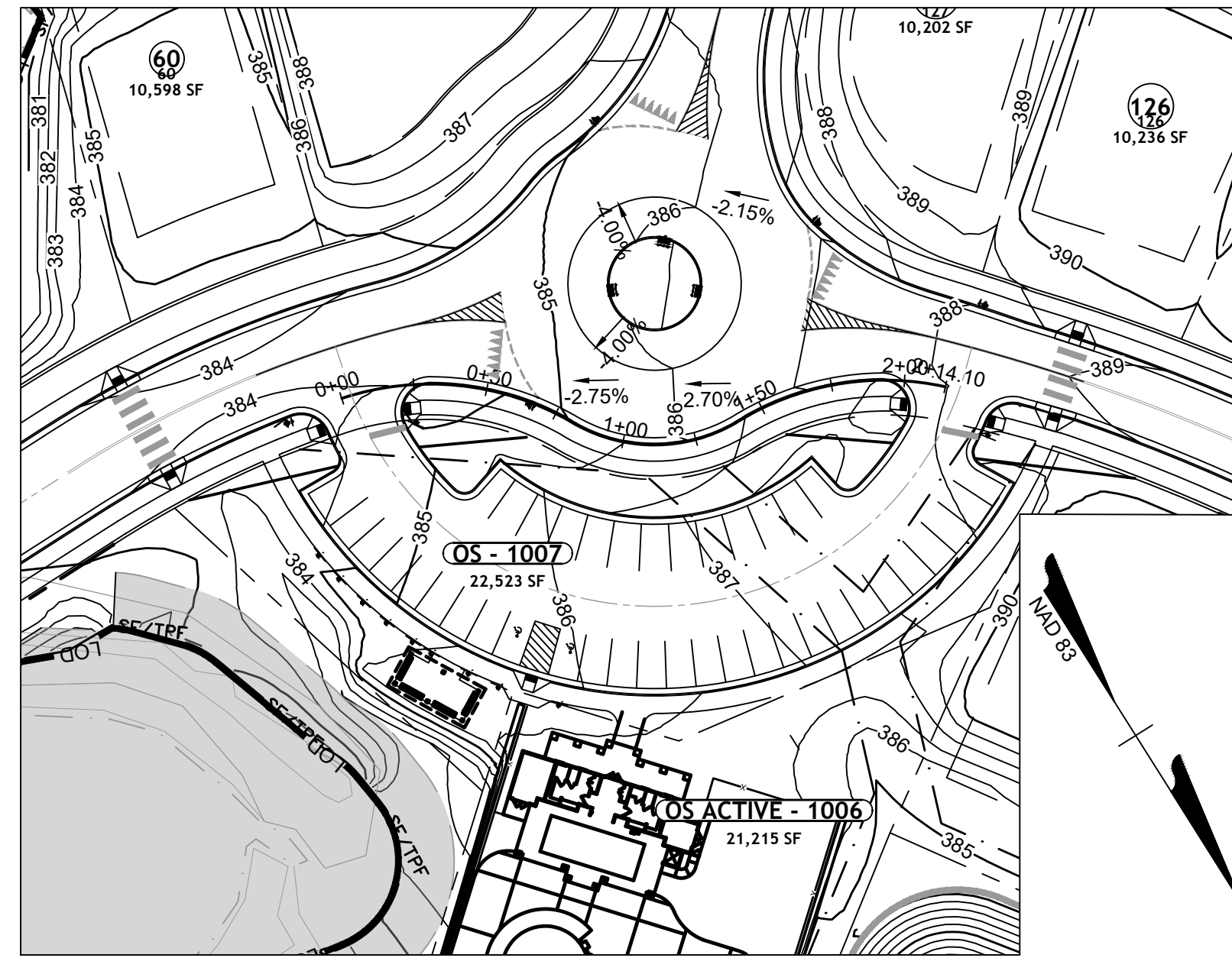
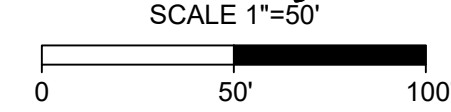
JOB NO. 43398
SHEET NO. C2.24



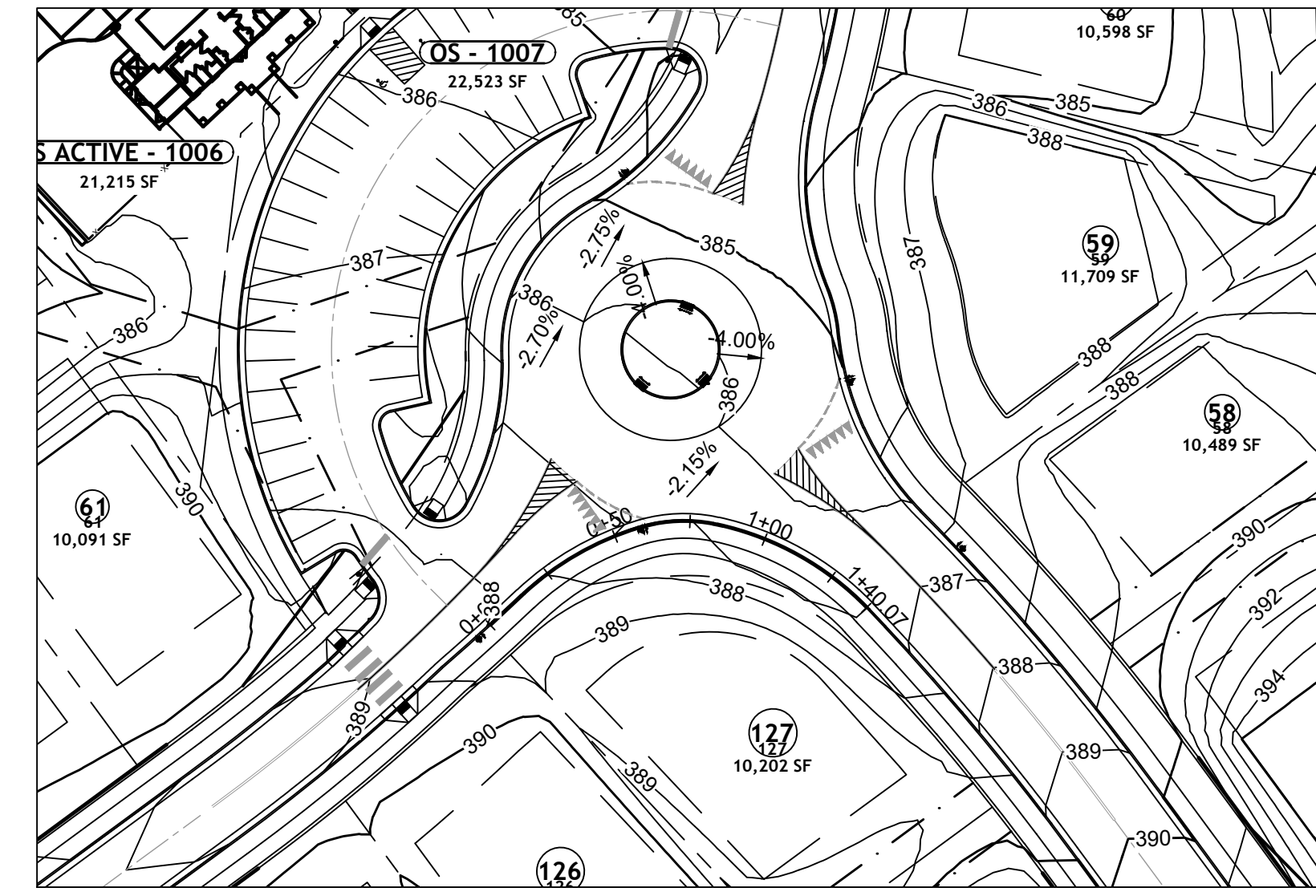
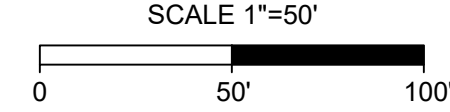
01/02/2024



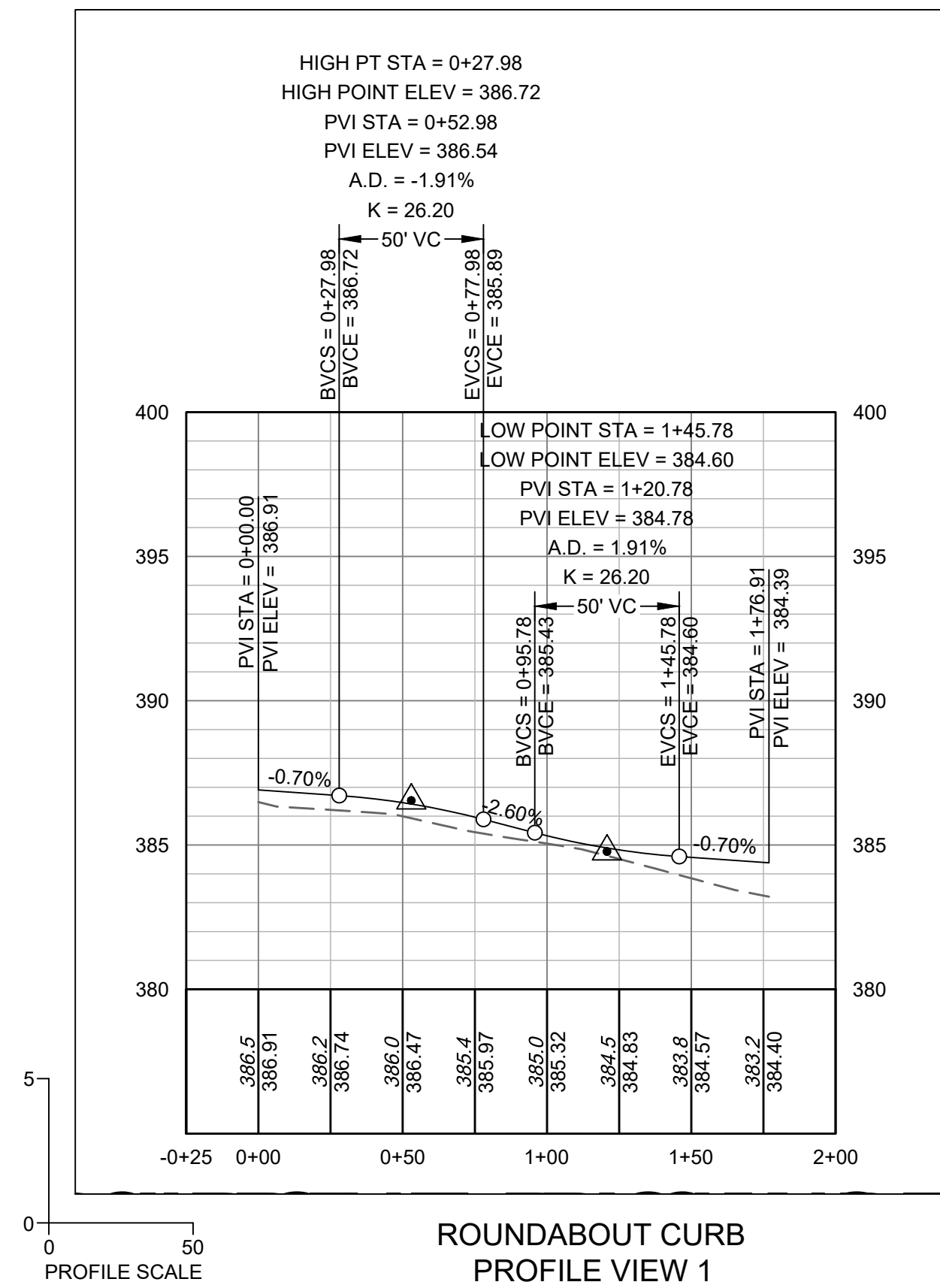
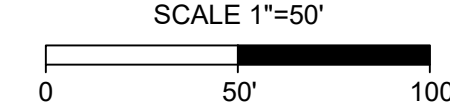
ROUNDABOUT CURB
PLAN VIEW 1



ROUNDABOUT CURB
PLAN VIEW 2

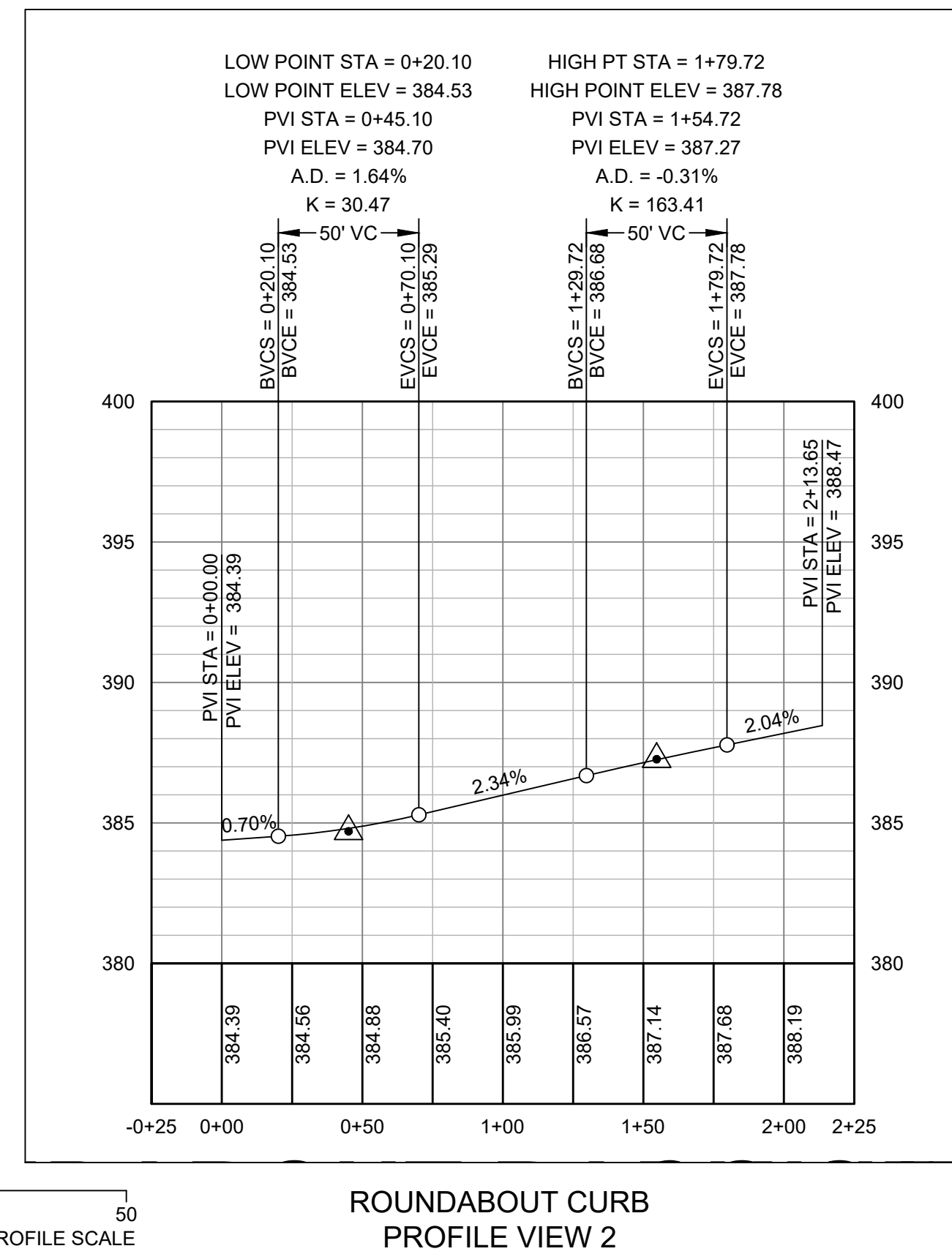


ROUNDABOUT CURB
PLAN VIEW 3



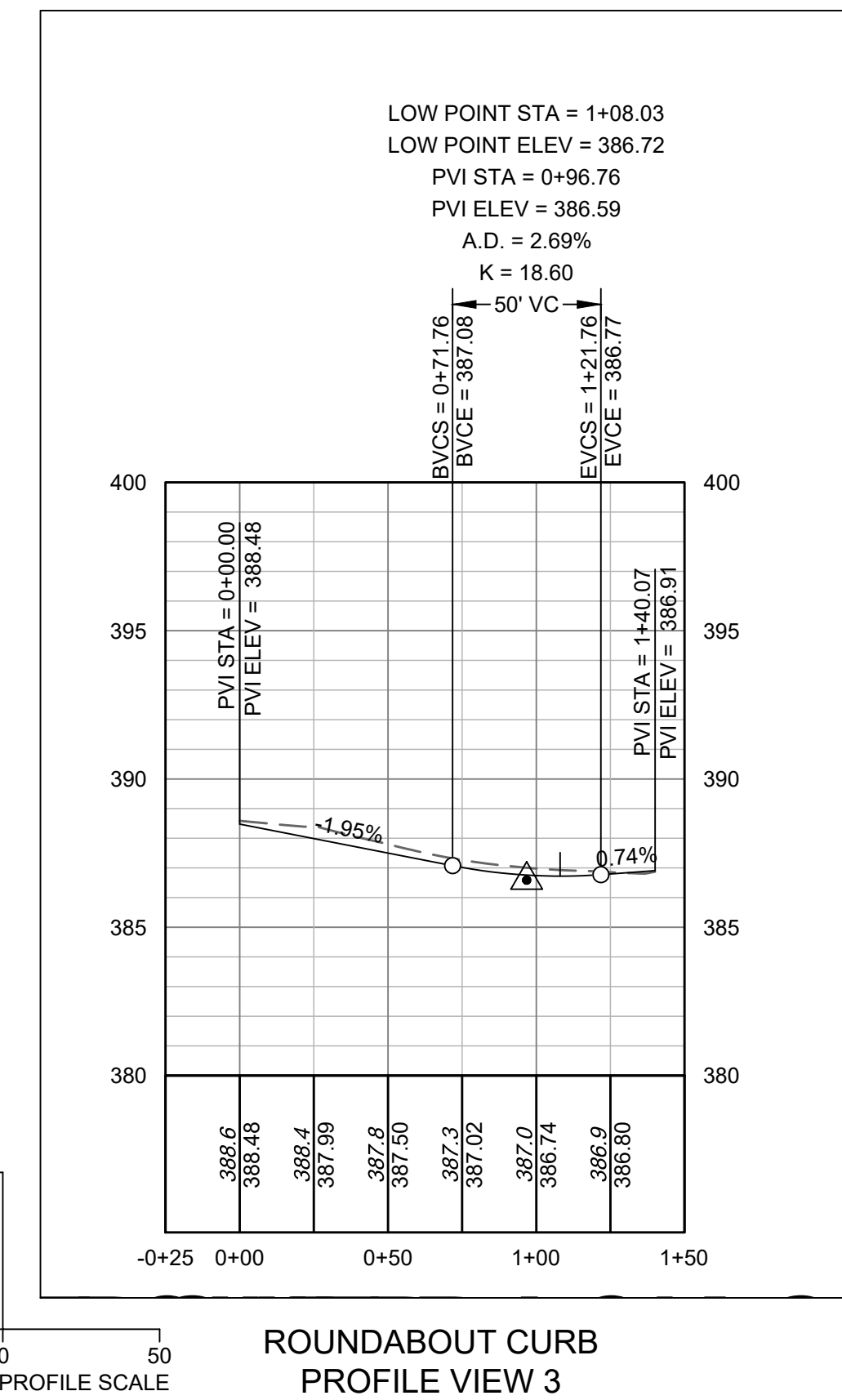
ROUNDABOUT CURB
PROFILE VIEW 1

PROFILE SCALE



ROUNDABOUT CURB
PROFILE VIEW 2

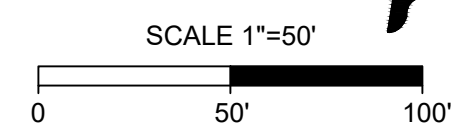
PROFILE SCALE



ROUNDABOUT CURB
PROFILE VIEW 3

PROFILE SCALE

- ROUNDABOUT CURB PROFILE NOTES:
1. PROFILES ARE FOR BACK OF CURB ELEVATIONS.
 2. REFER TO GRADING AND DRAINAGE PLANS FOR STORM DRAINAGE.
 3. REFER TO UTILITY PLANS FOR UTILITIES.

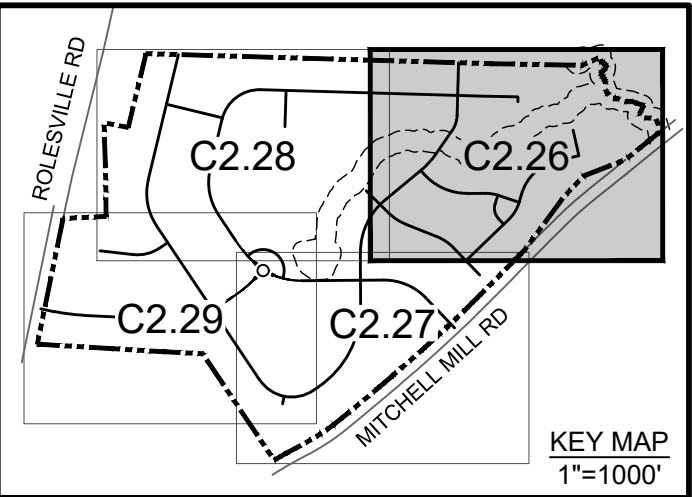


TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
ROUNDABOUT CURB PLAN & PROFILE

JOB NO.
43398
SHEET NO.
C2.25

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



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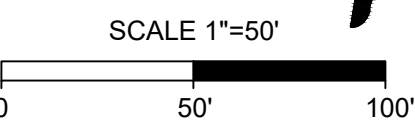
ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

PAVEMENT MARKING & SIGNAGE PLAN

REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
CONSTRUCTION DOCUMENT SUBMITTAL	07/22/2022
REVISIONS PER NCDOT COMMENTS	04/06/2023
REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024

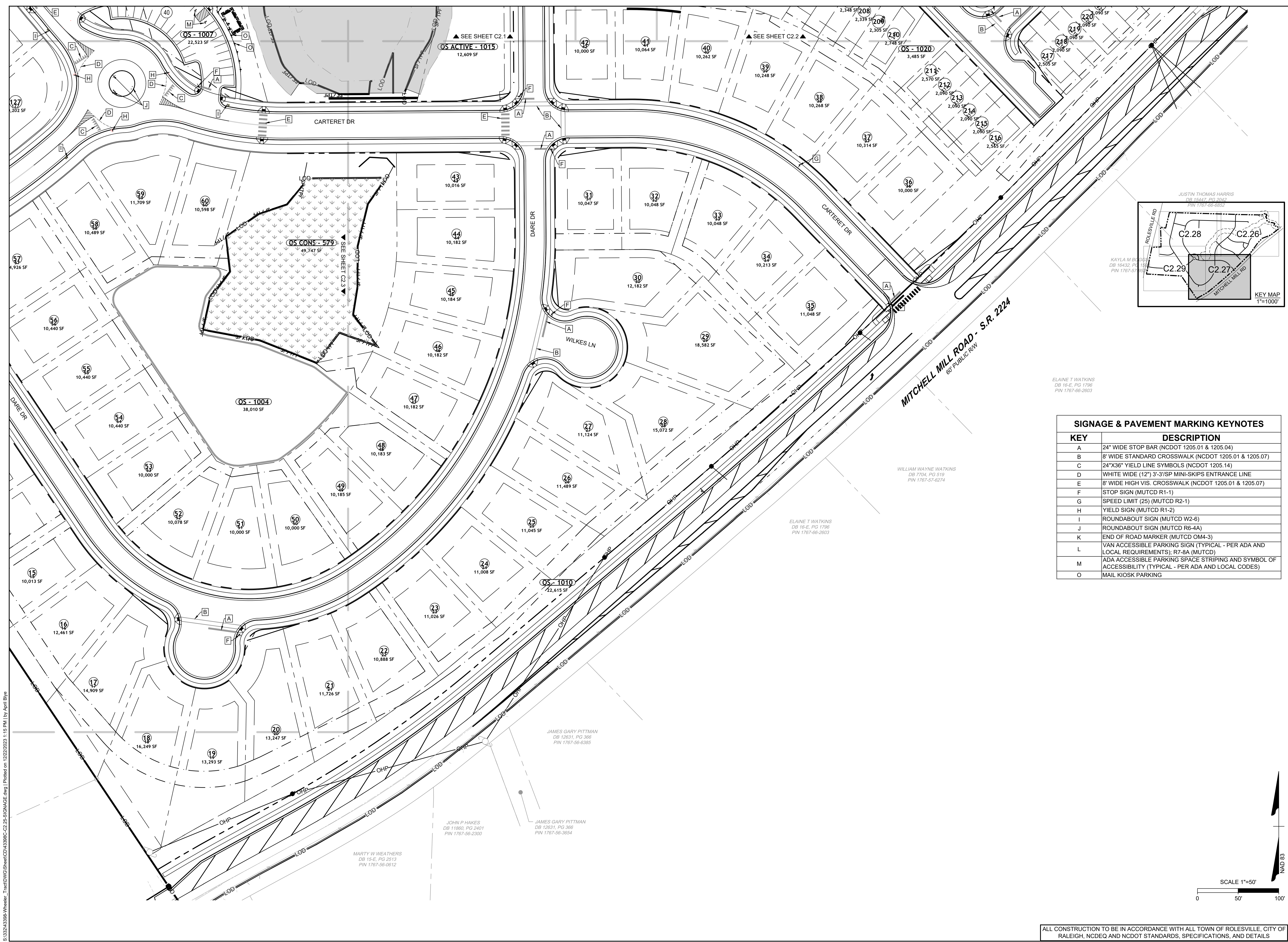
KEY	DESCRIPTION
A	24" WIDE STOP BAR (NCDOT 1205.01 & 1205.04)
B	8" WIDE STANDARD CROSSWALK (NCDOT 1205.01 & 1205.07)
C	24"x36" YIELD LINE SYMBOLS (NCDOT 1205.14)
D	WHITE WIDE (12") 3'-3"/SP MINI-SKIPS ENTRANCE LINE
E	8" WIDE HIGH VIS. CROSSWALK (NCDOT 1205.01 & 1205.07)
F	STOP SIGN (MUTCD R1-1)
G	SPEED LIMIT (25) (MUTCD R2-1)
H	YIELD SIGN (MUTCD R1-2)
I	ROUNDABOUT SIGN (MUTCD W2-6)
J	ROUNDABOUT SIGN (MUTCD R6-4A)
K	END OF ROAD MARKER (MUTCD OM4-3)
L	VAN ACCESSIBLE PARKING SIGN (TYPICAL - PER ADA AND LOCAL REQUIREMENTS); R7-8A (MUTCD)
M	ADA ACCESSIBLE PARKING SPACE STRIPING AND SYMBOL OF ACCESSIBILITY (TYPICAL - PER ADA AND LOCAL CODES)
O	MAIL KIOSK PARKING



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DATE: 09/17/2021

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DESIGNED BY: P. BARBEAU

CHECKED BY: P. BARBEAU

SCALE: AS SHOWN

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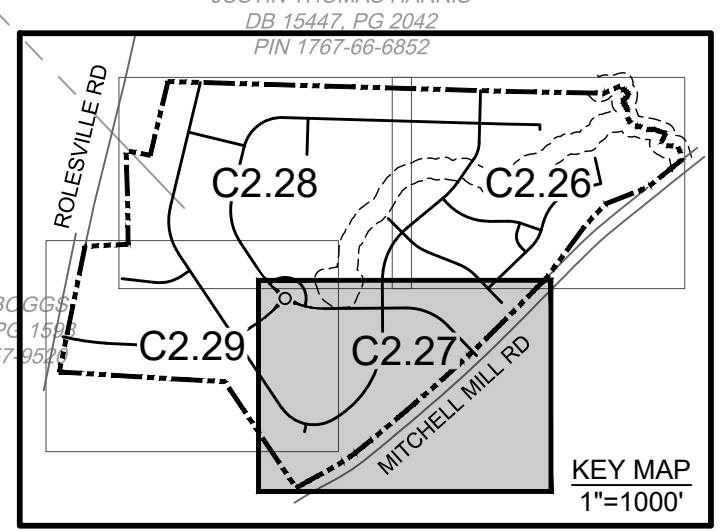
NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

PAVEMENT MARKING & SIGNAGE PLAN

JOB NO. 43398
 SHEET NO. C2.27



SIGNAGE & PAVEMENT MARKING KEYNOTES	
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O	MAIL KIOSK PARKING

ELAINE T WATKINS
 DB 16-E, PG 1796
 PIN 1767-66-2603

WILLIAM WAYNE WATKINS
 DB 17-D, PG 519
 PIN 1767-57-6274

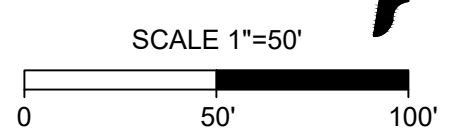
ELAINE T WATKINS
 DB 16-E, PG 1796
 PIN 1767-66-2603

JAMES GARY PITTMAN
 DB 12631, PG 366
 PIN 1767-56-6385

JOHN P HAKES
 DB 11860, PG 2401
 PIN 1767-56-2300

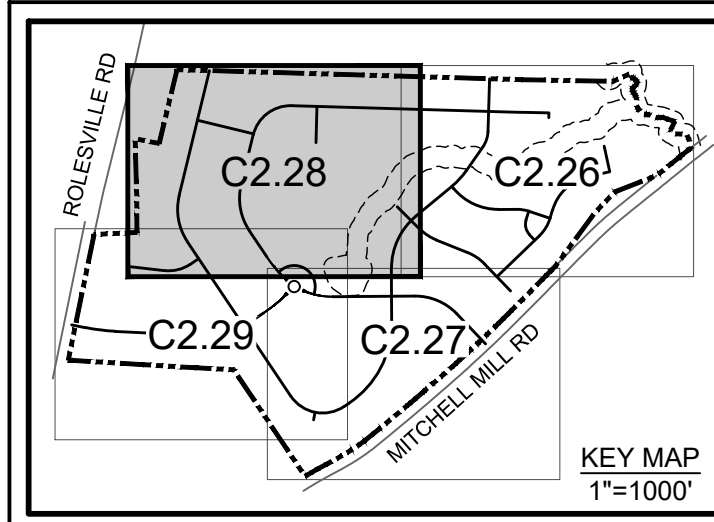
JAMES GARY PITTMAN
 DB 12631, PG 366
 PIN 1767-56-3654

MARTY W WEATHERS
 DB 15-E, PG 2513
 PIN 1767-56-0612



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CHARLES T. CLARK
AND WIFE
PATRICIA H. CLARK
DB 4572, PG 246
PIN 1767-39-9615

URLLEY
PG 1539
PG 967
9-8313

AND RACHEL MONROE
PG 582
38-7170

S:\324243396\Wheeler_Timed\DWG\Sheet\C2.25-SIGNAGE.dwg | Printed on 12/22/2023 1:15 PM | by April Blye

SIGNAGE & PAVEMENT MARKING KEYNOTES

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O	MAIL KIOSK PARKING



SCALE 1"=50'

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09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021
DRAWN BY
R. WINGATE
DESIGNED BY
P. BARBEAU
CHECKED BY
P. BARBEAU
SCALE
AS SHOWN

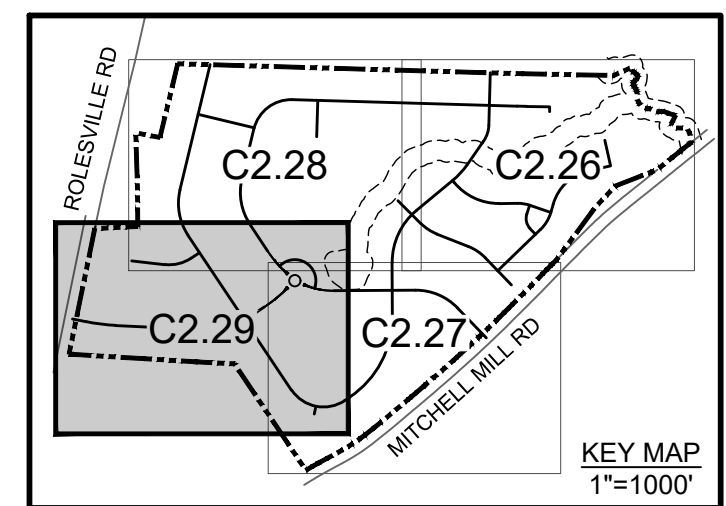
TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
PAVEMENT MARKING & SIGNAGE PLAN

JOB NO.
43398
SHEET NO.
C2.28

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01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021
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R. WINGATE
 DESIGNED BY
P. BARBEAU
 CHECKED BY
P. BARBEAU
 SCALE
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TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

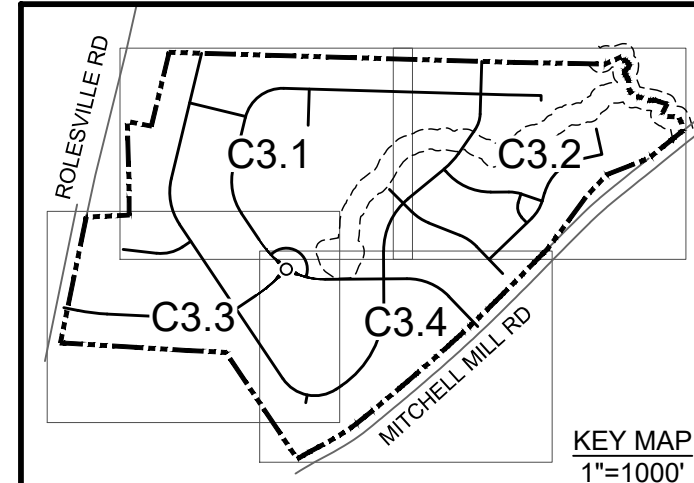
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

PAVEMENT MARKING & SIGNAGE PLAN

JOB NO.
43398
 SHEET NO.
C.29

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GRADING AND STORM DRAINAGE NOTES

- CONTRACTOR SHALL CALL "NORTH CAROLINA ONE CALL" (811) AT LEAST 3-12 BUSINESS DAYS PRIOR TO DIGGING TO HAVE EXISTING UTILITIES LOCATED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES INVOLVED IN ANY RELATED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
- 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.
- THE CATCH BASINS AND YARD INLETS SHALL BE CONSTRUCTED IN THE LOCATIONS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING ANY DISCREPANCIES IN THE CATCH BASIN ELEVATIONS OR THE PROPOSED PIPE SLOPES TO THE ENGINEER. THE CONTRACTOR IS ALSO RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN ANY UTILITY, STORM DRAIN LINE, WATER LINE, SEWER LINE OR ANY OTHER PROPOSED OR EXISTING STRUCTURE TO THE ENGINEER.
- A LAND DISTURBING PERMIT WILL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY LAND-DISTURBING ACTIVITIES.
- ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADE.
- ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY.
- ALL SPOT ELEVATIONS INDICATED ARE AT TOP OF CURB UNLESS NOTED OTHERWISE. ALL ELEVATIONS ARE BASED ON VERTICAL DATUM NAVD88.
- A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO ANY WORK, GRADING OR INSTALLATION OF EROSION CONTROL MEASURES.
- ALL HANDICAP PARKING SPACES AND STRIPED ACCESSIBILITY AISLES ARE TO HAVE NO MORE THAN A 1:50 (2.0%) SLOPE IN ALL DIRECTIONS. ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK.
- CONTRACTOR TO IDENTIFY ALL NECESSARY SPILL CURB SECTION LOCATIONS AND INSTALL TO ENSURE POSITIVE DRAINAGE TO STORM STRUCTURES.
- IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER PRIOR TO POURING ANY CONCRETE SO THAT A SOLUTION CAN BE FOUND.
- SPOT ELEVATIONS ARE GIVEN AT THE MAJORITY OF THE MAJOR BREAK POINTS BUT IT SHOULD NOT BE ASSUMED THAT ALL NECESSARY SPOT ELEVATIONS ARE SHOWN. DUE TO SPACE LIMITATIONS, THERE MAY BE OTHER CRITICAL SPOTS NOT LABELED THAT SHOULD BE TAKEN INTO CONSIDERATION. THE CONTRACTOR SHALL REVIEW THE GRADING PLAN IN DETAIL AND SHALL ENSURE THAT ALL CRITICAL GRADE POINTS ARE STAKED AND FOLLOWED TO PROVIDE POSITIVE DRAINAGE.
- EXISTING VEGETATION WITHIN TREE PROTECTIVE AREAS SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE. ANY AND ALL LANDSCAPING AND EXISTING TREES AND SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR OR THE ENGINEER.
- THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
- ALL CATCH BASINS MUST BE MARKED "DUMP NO WASTE DRAINS TO STREAM" OR EQUIVALENT.
- RETAINING WALLS TO BE DESIGNED BY OTHERS' STRUCTURAL ENGINEER. WALLS GREATER THAN 30" IN HEIGHT TO HAVE 42" SAFETY RAIL.



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DATE: 09/17/2021
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 DESIGNED BY: P. BARBEAU
 CHECKED BY: P. BARBEAU
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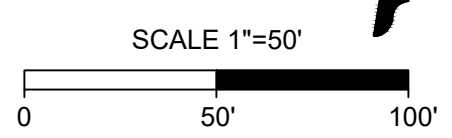
ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

OVERALL GRADING AND DRAINAGE PLAN

JOB NO. 43398
 SHEET NO. C3.0

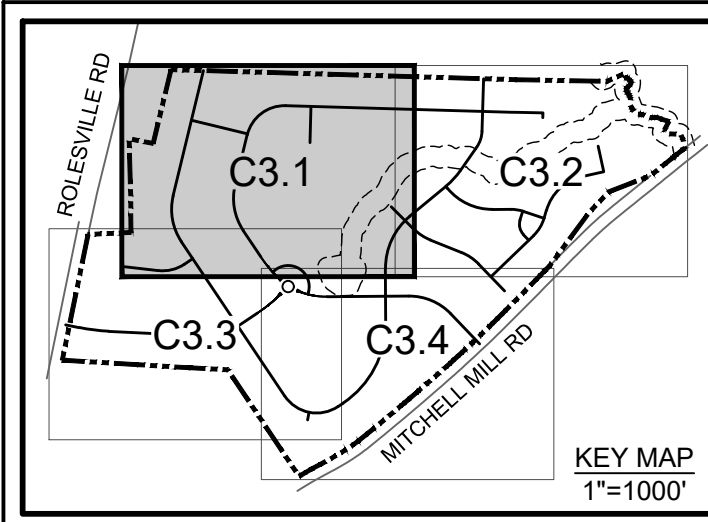
DITCH NAME	TOP WIDTH "A"	MIN. DITCH DEPTH (FT) "B"	BOTTOM WIDTH (FT) "C"	SIDE SLOPE "D"	LINER TYPE & THICKNESS
PDD-1	7 FT	1 FT	1	3:1	North American Green, S75
PDD-2	7.6 FT	1.1 FT	1	3:1	North American Green, S75
PDD-3	8.2 FT	1.2 FT	1	3:1	North American Green, S75
PDD-4	9.6 FT	1.6 FT	0	3:1	North American Green, S75
PDD-5	10 FT	1 FT	0	3:1	North American Green, S75
PDD-6	20 FT	1 FT	0	3:1	North American Green, S75
PDD-7	8 FT	1 FT	1	3:1	North American Green, S75
PDD-8	8.2 FT	1.2 FT	1	3:1	North American Green, S75
PDD-9	10.8 FT	1.4 FT	1	3:1	North American Green, S75
PDD-10	7 FT	1 FT	1	3:1	North American Green, S75
PDD-11	8.2 FT	1.2 FT	1	3:1	North American Green, S75
PDD-12	6 FT	1 FT	0	3:1	North American Green, SC150
PDD-13	7.2 FT	1.2 FT	0	3:1	North American Green, S75
PDD-14	12 FT	1 FT	0	3:1	North American Green, S75
PDD-15	5.6 FT	1.4 FT	0	3:1	North American Green, S150
PDD-16	7.8 FT	1.3 FT	0	3:1	North American Green, S75
PDD-17	9 FT	1 FT	3	3:1	North American Green, S75
PDD-18	6.6 FT	1.1 FT	0	3:1	North American Green, S75
PDD-19	10 FT	1 FT	0	3:1	North American Green, S75
PDD-20	7.2 FT	1.2 FT	0	3:1	North American Green, S75
PDD-21	6 FT	1 FT	0	3:1	North American Green, S75
PDD-22	6 FT	1 FT	0	3:1	North American Green, S75
PDD-23	8.8 FT	1.3 FT	1	3:1	North American Green, SC150
PDD-24	6 FT	1 FT	0	3:1	North American Green, S75
PDD-25	6.6 FT	1.1 FT	0	3:1	North American Green, S150
PDD-26	6 FT	1 FT	0	3:1	North American Green, S75
PDD-27	8.2 FT	1.2 FT	1	3:1	North American Green, S75
PDD-28	6 FT	1 FT	0	3:1	North American Green, S75
PDD-29	6 FT	1 FT	0	3:1	North American Green, S75
PDD-30	6 FT	1 FT	0	3:1	North American Green, S75

REFER TO SHEETS C3.1-C3.4 FOR LOCATIONS OF PERMANENT DITCHES.



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S:\3324\3398\Wheeler_Timed\DWG\Sheet\C3\C3-GRAD.dwg | Printed on 12/22/2023, 1:16 PM | Job: April Blye



CHARLES T. CLARK
AND WIFE
PATRICIA H. CLARK
DB 4572, PG 246
PIN 1767-38-9615

- GENERAL NOTES:**
1. REFER TO OVERALL GRADING PLAN SHEET FOR GRADING PLAN NOTES.
 2. REFER TO PERMANENT DITCH TABLE ON SHEET C3.0 FOR SIZE AND LINER SPECIFICATIONS.



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P. BARBEAU
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P. BARBEAU
SCALE
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TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

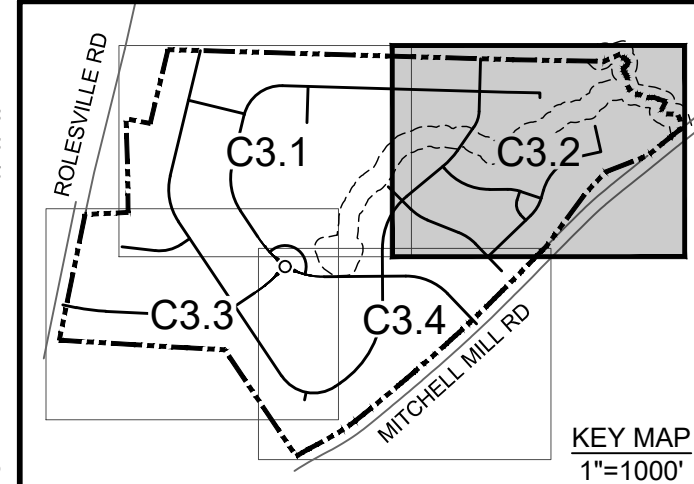
ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

GRADING AND DRAINAGE PLAN

JOB NO.
43398
SHEET NO.
C3.1

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



GENERAL NOTES:
 1. REFER TO OVERALL GRADING PLAN SHEET FOR GRADING PLAN NOTES
 2. REFER TO PERMANENT DITCH TABLE ON SHEET C3.0 FOR SIZE AND LINER SPECIFICATIONS.



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DATE	REVISION DESCRIPTION
06/24/2022	REVISED PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISED PER NCDOT COMMENTS
09/06/2023	REVISED PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISED TO APPROVED PLANS

09/17/2021
 DRAWN BY
R. WINGATE
 DESIGNED BY
P. BARBEAU
 CHECKED BY
P. BARBEAU
 SCALE
AS SHOWN

ROLESVILLE CROSSING - CD 21-08
 NORTH CAROLINA LICENSE NO. C-1652
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
GRADING AND DRAINAGE PLAN

JOB NO.
43398
 SHEET NO.
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ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



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REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
CONSTRUCTION DOCUMENT SUBMITTAL	07/22/2022
REVISIONS PER NCDOT COMMENTS	04/06/2023
REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024

DATE: 09/17/2021
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 DESIGNED BY: P. BARBEAU
 CHECKED BY: P. BARBEAU
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TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

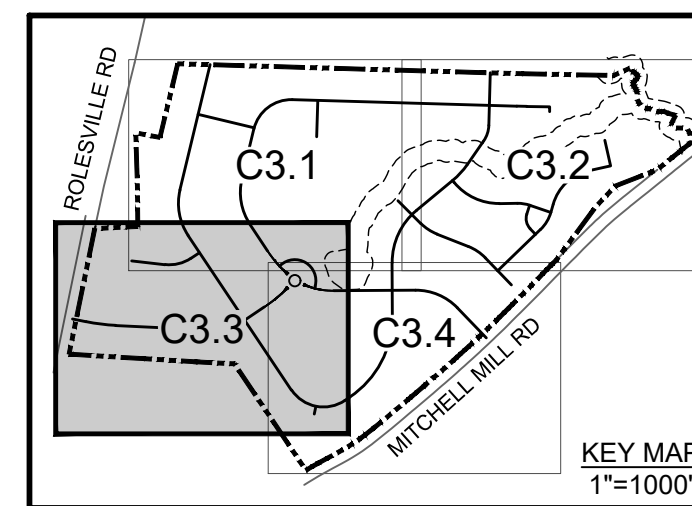
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

GRADING AND DRAINAGE PLAN

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JOB NO. 43398
 SHEET NO. C3.3

- GENERAL NOTES:**
- REFER TO OVERALL GRADING PLAN SHEET FOR GRADING PLAN NOTES
 - REFER TO PERMANENT DITCH TABLE ON SHEET C3.0 FOR SIZE AND LINER SPECIFICATIONS.



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



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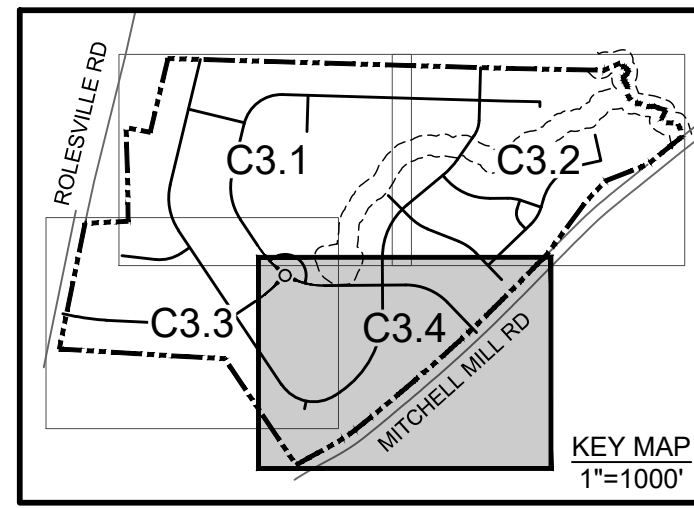
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 CHECKED BY: P. BARBEAU
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TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
GRADING AND DRAINAGE PLAN

JOB NO. 43398
 SHEET NO. C3.4



GENERAL NOTES:
 1. REFER TO OVERALL GRADING PLAN SHEET FOR GRADING PLAN NOTES
 2. REFER TO PERMANENT DITCH TABLE ON SHEET C3.0 FOR SIZE AND LINER SPECIFICATIONS.

ELAINE T. WATKINS
 DB 16432, PG 1767
 PIN 1767-66-2603

MITCHELL MILL ROAD - S.R. 2224
 60' PUBLIC R/W

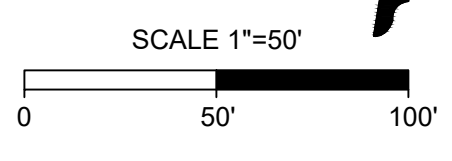
WILLIAM WAYNE WATKINS
 DB 7704, PG 519
 PIN 1767-67-0274

ELAINE T. WATKINS
 DB 16432, PG 1796
 PIN 1767-66-2603

JAMES GARY PITTMAN
 DB 12631, PG 366
 PIN 1767-56-6365

JOHN P. HAKES
 DB 11860, PG 2401
 PIN 1767-56-2300

MARTY W. WEATHERS
 DB 15-E, PG 2513
 PIN 1767-56-0612



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

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DATE
06/24/2022
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09/06/2023
01/02/2024

REVISION DESCRIPTION
REVISE PER WAKE COUNTY COMMENTS
CONSTRUCTION DOCUMENT SUBMITTAL
REVISE PER NCDOT COMMENTS
REVISE PER CITY OF RALEIGH COMMENTS
REVISE TO APPROVED PLANS

DATE
09/17/2021

DRAWN BY
R. WINGATE

DESIGNED BY
P. BARBEAU

CHECKED BY
P. BARBEAU

SCALE
AS SHOWN

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

STORM SEWER TABLES

JOB NO.
43398

SHEET NO.
C3.5

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STORM STRUCTURE TABLE with columns: STR. #, TOP, INV. IN, INV. OUT, DESCRIPTION. Contains 157 rows of storm structure data.

STORM STRUCTURE TABLE with columns: STR. #, TOP, INV. IN, INV. OUT, DESCRIPTION. Contains 157 rows of storm structure data.

STORM STRUCTURE TABLE with columns: STR. #, TOP, INV. IN, INV. OUT, DESCRIPTION. Contains 20 rows of storm structure data.

STORM STRUCTURE TABLE with columns: STR. #, TOP, INV. IN, INV. OUT, DESCRIPTION. Contains 157 rows of storm structure data.

- NOTES:
1. TOP REFERS TO:
1.1. CATCH BASIN; TOP OF CURB
1.2. YARD INLET; SILL
1.3. VALLEY GUTTER INLET; FLOW LINE

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



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REVISION DESCRIPTION
REVISIONS PER WAKE COUNTY COMMENTS
CONSTRUCTION DOCUMENT SUBMITTAL
REVISIONS PER NCDOT COMMENTS
REVISIONS PER CITY OF RALEIGH COMMENTS
REVISIONS TO APPROVED PLANS

DATE
06/24/2022
07/22/2022
04/06/2023
09/06/2023
01/02/2024

DATE
09/17/2021

DRAWN BY
R. WINGATE
DESIGNED BY
P. BARBEAU
CHECKED BY
P. BARBEAU

SCALE
AS SHOWN

JOB NO.
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SHEET NO.
C3.6



NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
STORM SEWER TABLES

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STR. #	TOP	INV. IN	INV. OUT	DESCRIPTION
DI382	373.19'		370.30' (18" RCP TO DI381)	36" X 36" SLAB TOP YARD INLET
DI397	372.50'		367.80' (15" RCP TO CB332)	36" X 36" SLAB TOP YARD INLET
DI399	359.00'		356.60' (15" RCP TO CB398)	36" X 36" SLAB TOP YARD INLET
EW300	348.42'	345.00' (36" RCP FROM JB301)		NCDOT 838.80 CONCRETE ENDWALL
JB301	351.42'	346.12' (36" RCP FROM CB302)	345.80' (36" RCP TO EW300)	NCDOT 840.34 TRAFFIC BEARING JUNCTION BOX
VI276	367.62'	357.14' (36" RCP FROM CB308) 359.98' (18" RCP FROM CB278)	357.04' (36" RCP TO CB307)	VALLEY GUTTER INLET
VI309	363.89'	358.71' (30" RCP FROM CB310) 359.40' (18" RCP FROM VI334B)	358.61' (30" RCP TO CB308)	VALLEY GUTTER INLET
VI318	373.98'	368.20' (18" RCP FROM CB319)	368.00' (18" RCP TO CB317)	VALLEY GUTTER INLET
VI328	371.18'	366.20' (15" RCP FROM CB329) 366.20' (15" RCP FROM CB332)	366.00' (18" RCP TO CB350)	VALLEY GUTTER INLET
VI334A	364.27'	359.75' (18" RCP FROM CB335)	359.65' (18" RCP TO VI334B)	VALLEY GUTTER INLET
VI334B	363.89'	359.60' (18" RCP FROM VI334A)	359.55' (18" RCP TO VI309)	VALLEY GUTTER INLET

STORM STRUCTURE TABLE				
STR. #	TOP	INV. IN	INV. OUT	DESCRIPTION
CB402	382.60'	368.99' (48" RCP FROM CB403) 372.00' (24" RCP FROM CB416)	368.99' (48" RCP TO DI401)	NCDOT 840.02 CONCRETE CATCH BASIN
CB403	381.82'	369.33' (48" RCP FROM CB404)	369.23' (48" RCP TO CB402)	NCDOT 840.02 CONCRETE CATCH BASIN
CB404	382.71'	369.84' (48" RCP FROM DI405)	369.74' (48" RCP TO CB403)	NCDOT 840.02 CONCRETE CATCH BASIN
CB406	381.15'	371.82' (36" RCP FROM CB407) 374.50' (18" RCP FROM CB424) 371.82' (24" RCP FROM CB423)	371.82' (48" RCP TO DI405)	NCDOT 840.02 CONCRETE CATCH BASIN
CB407	381.91'	372.40' (30" RCP FROM CB409)	372.28' (36" RCP TO CB406)	NCDOT 840.02 CONCRETE CATCH BASIN
CB409	381.21'	374.50' (30" RCP FROM CB410) 374.40' (24" RCP FROM CB430)	373.31' (30" RCP TO CB407)	NCDOT 840.02 CONCRETE CATCH BASIN
CB410	384.05'	378.32' (24" RCP FROM CB411) 375.80' (24" RCP FROM CB433)	375.60' (30" RCP TO CB409)	NCDOT 840.02 CONCRETE CATCH BASIN
CB411	385.52'	379.00' (24" RCP FROM CB412)	378.74' (24" RCP TO CB410)	NCDOT 840.02 CONCRETE CATCH BASIN
CB412	385.82'	379.50' (24" RCP FROM CB413)	379.24' (24" RCP TO CB411)	NCDOT 840.02 CONCRETE CATCH BASIN
CB413	387.76'	382.78' (18" RCP FROM CB414) 382.10' (24" RCP FROM DI438) 382.10' (15" RCP FROM CB439)	382.00' (24" RCP TO CB412)	NCDOT 840.02 CONCRETE CATCH BASIN
CB414	389.69'	385.90' (15" RCP FROM CB415)	385.70' (18" RCP TO CB413)	NCDOT 840.02 CONCRETE CATCH BASIN
CB415	389.90'		386.19' (15" RCP TO CB414)	NCDOT 840.02 CONCRETE CATCH BASIN
CB416	383.62'	379.18' (15" RCP FROM CB422) 372.70' (18" RCP FROM CB417)	372.50' (24" RCP TO CB402)	NCDOT 840.02 CONCRETE CATCH BASIN
CB417	384.50'	373.40' (18" RCP FROM CB418)	373.20' (18" RCP TO CB416)	NCDOT 840.02 CONCRETE CATCH BASIN
CB418	384.30'	374.20' (18" RCP FROM CB419)	374.00' (18" RCP TO CB417)	NCDOT 840.02 CONCRETE CATCH BASIN
CB419	384.26'	374.60' (18" RCP FROM CB420)	374.40' (18" RCP TO CB418)	NCDOT 840.02 CONCRETE CATCH BASIN
CB420	380.64'	376.20' (15" RCP FROM CB421)	376.00' (18" RCP TO CB419)	NCDOT 840.02 CONCRETE CATCH BASIN
CB421	380.65'		376.50' (15" RCP TO CB420)	NCDOT 840.02 CONCRETE CATCH BASIN
CB422	383.62'		380.18' (15" RCP TO CB416)	NCDOT 840.02 CONCRETE CATCH BASIN
CB423	380.51'		372.80' (24" RCP TO CB406)	NCDOT 840.02 CONCRETE CATCH BASIN
CB424	381.15'	374.70' (18" RCP FROM CB425)	374.70' (18" RCP TO CB406)	NCDOT 840.02 CONCRETE CATCH BASIN
CB425	380.54'	375.50' (15" RCP FROM CB441) 375.30' (15" RCP FROM DI426)	375.30' (18" RCP TO CB424)	NCDOT 840.02 CONCRETE CATCH BASIN
CB427	382.36'	377.50' (15" RCP FROM CB428)	377.30' (15" RCP TO CB430)	NCDOT 840.02 CONCRETE CATCH BASIN
CB428	383.23'	378.20' (15" RCP FROM CB429)	378.00' (15" RCP TO CB427)	NCDOT 840.02 CONCRETE CATCH BASIN
CB429	384.26'		379.00' (15" RCP TO CB428)	NCDOT 840.02 CONCRETE CATCH BASIN
CB430	381.21'	376.55' (15" RCP FROM CB427) 374.90' (24" RCP FROM CB431)	374.70' (24" RCP TO CB409)	NCDOT 840.02 CONCRETE CATCH BASIN
CB431	381.80'	376.20' (18" RCP FROM DI432)	375.60' (24" RCP TO CB430)	NCDOT 840.02 CONCRETE CATCH BASIN
CB433	384.84'	379.32' (18" RCP FROM DI440) 376.30' (24" RCP FROM CB434)	376.10' (24" RCP TO CB410)	NCDOT 840.02 CONCRETE CATCH BASIN
CB434	382.29'	377.50' (18" RCP FROM CB436) 377.50' (18" RCP FROM DI435) 377.60' (18" RCP FROM CB437)	377.40' (24" RCP TO CB433)	NCDOT 840.02 CONCRETE CATCH BASIN
CB436	381.92'		377.88' (18" RCP TO CB434)	NCDOT 840.02 CONCRETE CATCH BASIN
CB437	381.25'		378.00' (18" RCP TO CB434)	NCDOT 840.02 CONCRETE CATCH BASIN
CB439	387.76'		383.00' (15" RCP TO CB413)	NCDOT 840.02 CONCRETE CATCH BASIN
CB441	380.51'		376.00' (15" RCP TO CB425)	NCDOT 840.02 CONCRETE CATCH BASIN
DI401	378.22'	367.77' (48" RCP FROM CB402)	367.67' (48" RCP TO EW400)	60" X 60" SLAB TOP YARD INLET
DI405	379.50'	371.01' (48" RCP FROM CB406)	370.91' (48" RCP TO CB404)	60" X 60" SLAB TOP YARD INLET
DI426	378.93'		376.00' (15" RCP TO CB425)	36" X 36" SLAB TOP YARD INLET
DI432	379.00'		376.70' (18" RCP TO CB431)	36" X 36" SLAB TOP YARD INLET
DI435	381.35'		377.80' (18" RCP TO CB434)	36" X 36" SLAB TOP YARD INLET
DI438	386.12'		383.10' (24" RCP TO CB413)	36" X 36" SLAB TOP YARD INLET
DI440	384.69'		380.07' (18" RCP TO CB433)	36" X 36" SLAB TOP YARD INLET
EW400	371.50'	367.25' (48" RCP FROM DI401)		NCDOT 838.80 CONCRETE ENDWALL

STORM STRUCTURE TABLE				
STR. #	TOP	INV. IN	INV. OUT	DESCRIPTION
CB501	360.84'	355.94' (30" RCP FROM CB502)	355.84' (30" RCP TO EW500)	NCDOT 840.02 CONCRETE CATCH BASIN
CB502	363.90'	356.64' (30" RCP FROM CB503)	356.54' (30" RCP TO CB501)	NCDOT 840.02 CONCRETE CATCH BASIN
CB503	364.99'	357.10' (30" RCP FROM CB504)	357.00' (30" RCP TO CB502)	NCDOT 840.02 CONCRETE CATCH BASIN
CB504	369.59'	361.00' (24" RCP FROM CB505) 357.95' (24" RCP FROM CB509)	357.95' (30" RCP TO CB503)	NCDOT 840.02 CONCRETE CATCH BASIN
CB505	370.82'	364.20' (24" RCP FROM CB506) 365.92' (18" RCP FROM CB514)	364.00' (24" RCP TO CB504)	NCDOT 840.02 CONCRETE CATCH BASIN
CB506	373.30'	366.20' (18" RCP FROM CB507) 369.00' (15" RCP FROM CB519)	366.00' (24" RCP TO CB505)	NCDOT 840.02 CONCRETE CATCH BASIN
CB507	376.45'	371.20' (15" RCP FROM CB508)	371.00' (18" RCP TO CB506)	NCDOT 840.02 CONCRETE CATCH BASIN
CB508	376.44'		371.50' (15" RCP TO CB507)	NCDOT 840.02 CONCRETE CATCH BASIN
CB509	368.95'	358.31' (24" RCP FROM CB510)	358.21' (24" RCP TO CB504)	NCDOT 840.02 CONCRETE CATCH BASIN
CB510	365.60'	361.10' (15" RCP FROM CB513) 358.87' (18" RCP FROM CB520)	358.87' (24" RCP TO CB509)	NCDOT 840.02 CONCRETE CATCH BASIN
CB511	363.94'	359.70' (15" RCP FROM CB512)	359.70' (15" RCP TO CB520)	NCDOT 840.02 CONCRETE CATCH BASIN
CB512	363.95'		360.09' (15" RCP TO CB511)	NCDOT 840.02 CONCRETE CATCH BASIN
CB513	365.45'		361.69' (15" RCP TO CB510)	NCDOT 840.02 CONCRETE CATCH BASIN
CB514	370.82'	366.18' (18" RCP FROM CB515)	366.08' (18" RCP TO CB505)	NCDOT 840.02 CONCRETE CATCH BASIN
CB515	370.97'	366.44' (18" RCP FROM CB516)	366.44' (18" RCP TO CB514)	NCDOT 840.02 CONCRETE CATCH BASIN
CB516	370.69'	367.03' (15" RCP FROM CB518) 367.03' (15" RCP FROM DI517)	366.93' (18" RCP TO CB515)	NCDOT 840.02 CONCRETE CATCH BASIN
CB518	370.69'		367.23' (15" RCP TO CB516)	NCDOT 840.02 CONCRETE CATCH BASIN
CB519	373.29'		369.61' (15" RCP TO CB506)	NCDOT 840.02 CONCRETE CATCH BASIN
CB520	364.60'	359.20' (15" RCP FROM CB511)	359.20' (18" RCP TO CB510)	NCDOT 840.02 CONCRETE CATCH BASIN
DI517	369.67'		367.23' (15" RCP TO CB516)	36" X 36" SLAB TOP YARD INLET
EW500	357.87'	354.00' (30" RCP FROM CB501)		NCDOT 838.80 CONCRETE ENDWALL

STORM STRUCTURE TABLE				
STR. #	TOP	INV. IN	INV. OUT	DESCRIPTION
EW 601	372.62'	369.50' (30" RCP FROM SCM 1 RISER)		NCDOT 838.80 CONCRETE ENDWALL
EW 601	372.62'	369.50' (30" RCP FROM SCM 1 RISER)		NCDOT 838.80 CONCRETE ENDWALL
EW 602	383.68'	380.20' (30" RCP FROM SCM 2 RISER)		CONCRETE ENDWALL
EW601	374.00'	369.50' (30" RCP FROM SCM 1 RISER)		NCDOT 838.80 CONCRETE ENDWALL
EW602	383.62'	380.20' (30" RCP FROM SCM 2 RISER)		CONCRETE ENDWALL
EW603	345.50'	341.00' (48" RCP FROM SCM 3 RISER)		NCDOT 838.80 CONCRETE ENDWALL
EW604	369.50'	365.00' (48" RCP FROM SCM 4 RISER)		NCDOT 838.80 CONCRETE ENDWALL
EW605	351.26'	347.30' (42" RCP FROM SCM 5 RISER)		NCDOT 838.80 CONCRETE ENDWALL
EW609	359.67'	354.00' (72" RCP FROM EW610)		NCDOT 838.80 CONCRETE ENDWALL
EW610	362.67'		354.50' (72" RCP TO EW609)	NCDOT 838.80 CONCRETE ENDWALL
EW611	359.67'	355.00' (72" RCP FROM EW612)		NCDOT 838.80 CONCRETE ENDWALL
EW612	362.67'		355.50' (72" RCP TO EW611)	NCDOT 838.80 CONCRETE ENDWALL
EW613	383.00'	378.50' (48" RCP FROM EW614)		NCDOT 838.80 CONCRETE ENDWALL
EW614	383.50'		379.00' (48" RCP TO EW613)	NCDOT 838.80 CONCRETE ENDWALL
EW615	383.00'	378.50' (48" RCP FROM EW616)		NCDOT 838.80 CONCRETE ENDWALL
EW616	383.50'		379.00' (48" RCP TO EW615)	NCDOT 838.80 CONCRETE ENDWALL
FE650	N/A		343.40' (24" RCP TO FE651)	FLARED END SECTION
FE651	N/A	342.30' (24" RCP FROM FE650)		FLARED END SECTION
SCM 1 RISER	REFER TO DETAIL		369.90' (30" RCP TO EW 601)	SCM 1 RISER; REFER TO DETAIL
SCM 1 RISER	REFER TO DETAIL		369.90' (30" RCP TO EW 601)	SCM 1 RISER; REFER TO DETAIL
SCM 1 RISER	REFER TO DETAIL		369.90' (30" RCP TO EW601)	SCM 1 RISER; REFER TO DETAIL
SCM 2 RISER	REFER TO DETAIL		380.55' (30" RCP TO EW 602)	SCM 2 RISER; REFER TO DETAIL
SCM 2 RISER	REFER TO DETAIL		380.55' (30" RCP TO EW602)	48 x 48 inch Rectangular Structure
SCM 3 RISER	REFER TO DETAIL		341.59' (48" RCP TO EW603)	SCM 3 RISER; REFER TO DETAIL
SCM 4 RISER	REFER TO DETAIL		365.45' (48" RCP TO EW604)	SCM 4 RISER; REFER TO DETAIL
SCM 5 RISER	REFER TO DETAIL		347.88' (42" RCP TO EW605)	SCM 5 RISER; REFER TO DETAIL

NOTES:
1. TOP REFERS TO:
1.1. CATCH BASIN; TOP OF CURB
1.2. YARD INLET; SILL
1.3. VALLEY GUTTER INLET; FLOW LINE

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

STORM PIPE TABLE							
FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DIA.	MATERIAL	DESCRIPTION
CB101 - EW100	370.65'	370.00'	0.49%	132.94 LF	48"	RCP	CLASS III
CB102 - CB101	371.24'	370.75'	0.50%	97.43 LF	42"	RCP	CLASS III
CB103 - CB183	374.96'	373.20'	3.56%	49.40 LF	36"	RCP	CLASS III
CB104 - CB103	376.10'	375.06'	0.60%	172.58 LF	36"	RCP	CLASS III
CB105 - CB104	376.45'	376.20'	0.59%	42.43 LF	30"	RCP	CLASS III
CB106 - CB105	376.95'	376.55'	0.60%	66.73 LF	30"	RCP	CLASS III
CB107 - CB106	377.71'	377.05'	0.61%	108.77 LF	30"	RCP	CLASS III
CB108 - CB107	378.33'	377.81'	0.60%	86.74 LF	30"	RCP	CLASS III
CB109 - CB108	380.78'	378.43'	0.60%	392.67 LF	24"	RCP	CLASS III
CB110 - CB109	381.80'	380.88'	0.54%	169.45 LF	24"	RCP	CLASS III
CB112 - CB101	377.30'	375.00'	2.43%	94.73 LF	15"	RCP	CLASS III
CB113 - CB112	378.00'	377.50'	1.28%	39.16 LF	15"	RCP	CLASS III
CB114 - CB102	371.98'	371.30'	0.49%	137.77 LF	42"	RCP	CLASS III
CB115 - CB114	372.51'	372.10'	0.58%	70.32 LF	30"	RCP	CLASS III
CB116 - CB115	373.90'	372.65'	0.51%	245.19 LF	30"	RCP	CLASS III
CB117 - CB116	374.25'	374.00'	0.54%	46.53 LF	30"	RCP	CLASS III
CB118 - CB117	376.00'	375.80'	0.74%	27.00 LF	30"	RCP	CLASS III
CB119 - CB118	376.60'	376.25'	0.77%	45.41 LF	30"	RCP	CLASS III
CB120 - CB119	377.37'	376.60'	0.67%	115.77 LF	30"	RCP	CLASS III
CB121 - CB120	377.84'	377.37'	0.62%	75.64 LF	24"	RCP	CLASS III
CB122 - CB121	378.50'	377.84'	0.79%	83.58 LF	18"	RCP	CLASS III
CB123 - CB122	380.00'	378.70'	0.83%	155.76 LF	18"	RCP	CLASS III
CB124 - CB114	379.41'	378.00'	5.00%	28.29 LF	15"	RCP	CLASS III
CB125 - CB114	379.38'	377.50'	5.37%	35.00 LF	15"	RCP	CLASS III
CB126 - CB115	379.00'	378.50'	1.43%	35.00 LF	15"	RCP	CLASS III
CB127 - CB116	377.53'	377.32'	0.60%	35.00 LF	18"	RCP	CLASS III
CB128 - CB127	378.30'	377.63'	1.45%	46.28 LF	18"	RCP	CLASS III
CB129 - CB128	378.80'	378.50'	1.11%	27.00 LF	18"	RCP	CLASS III
CB130 - CB129	381.30'	378.90'	2.24%	107.12 LF	15"	RCP	CLASS III
CB131 - CB130	382.12'	381.50'	1.58%	39.20 LF	15"	RCP	CLASS III
CB132 - CB117	377.00'	376.00'	0.85%	117.54 LF	18"	RCP	CLASS III
CB133 - CB132	377.70'	377.30'	1.48%	27.05 LF	15"	RCP	CLASS III
CB134 - CB120	378.15'	377.70'	0.69%	64.98 LF	24"	RCP	CLASS III
CB136 - CB104	385.21'	385.00'	0.60%	35.00 LF	24"	RCP	CLASS III
CB137 - CB136	385.94'	385.31'	1.00%	63.35 LF	18"	RCP	CLASS III
CB138 - CB137	386.55'	386.14'	1.00%	40.57 LF	15"	RCP	CLASS III
CB139 - CB105	385.93'	385.10'	1.00%	82.75 LF	15"	RCP	CLASS III
CB140 - CB139	387.00'	386.03'	3.59%	27.03 LF	15"	RCP	CLASS III
CB144 - CB108	390.50'	389.50'	2.86%	35.00 LF	15"	RCP	CLASS III
CB146 - CB109	388.00'	385.91'	5.11%	40.91 LF	15"	RCP	CLASS III
CB147 - CB110	382.65'	382.00'	1.67%	38.92 LF	15"	RCP	CLASS III
CB148A - CB122	379.75'	379.41'	0.97%	35.00 LF	15"	RCP	CLASS V
CB148B - CB148A	379.90'	379.80'	2.22%	4.50 LF	15"	RCP	CLASS III
CB149 - CB129	380.31'	379.85'	1.00%	45.91 LF	15"	RCP	CLASS III
CB150 - DI149	372.80'	371.10'	1.03%	165.28 LF	30"	RCP	CLASS III
CB151 - CB150	373.20'	372.90'	0.72%	41.38 LF	30"	RCP	CLASS III
CB152 - CB151	375.40'	373.30'	1.69%	124.57 LF	30"	RCP	CLASS III
CB155 - DI154	378.30'	377.34'	0.70%	136.50 LF	30"	RCP	CLASS III
CB156 - CB155	378.80'	378.50'	0.91%	32.88 LF	24"	RCP	CLASS III
CB157 - CB156	379.40'	379.00'	1.48%	27.00 LF	24"	RCP	CLASS III
CB158 - CB157	385.00'	383.00'	3.39%	58.95 LF	18"	RCP	CLASS III
CB159 - CB158	386.50'	385.29'	1.52%	79.35 LF	18"	RCP	CLASS III
CB160 - CB159	390.30'	386.70'	2.18%	165.29 LF	15"	RCP	CLASS III
CB161 - CB160	390.76'	390.50'	0.96%	27.00 LF	15"	RCP	CLASS III
CB162 - CB150	377.80'	377.50'	0.76%	39.30 LF	15"	RCP	CLASS III
CB164 - CB152	380.74'	380.30'	0.61%	72.45 LF	15"	RCP	CLASS III
CB165 - CB164	385.00'	382.70'	4.58%	50.25 LF	15"	RCP	CLASS V
CB166 - CB180	384.00'	383.20'	1.74%	46.02 LF	15"	RCP	CLASS III
CB168 - CB158	385.90'	385.70'	0.74%	27.00 LF	15"	RCP	CLASS III
CB169 - CB168	386.76'	386.00'	1.40%	54.16 LF	15"	RCP	CLASS III

FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DIA.	MATERIAL	DESCRIPTION
CB170 - CB159	387.10'	386.90'	0.74%	27.01 LF	15"	RCP	CLASS V
CB180 - CB157	383.00'	382.00'	1.62%	61.85 LF	15"	RCP	CLASS III
CB181 - CB103	383.00'	381.32'	4.82%	34.89 LF	15"	RCP	CLASS III
CB182 - CB110	382.20'	381.90'	0.70%	43.04 LF	18"	RCP	CLASS III
CB183 - CB102	373.00'	371.50'	1.26%	118.89 LF	42"	RCP	CLASS III
CB190 - CB138	387.56'	386.75'	1.00%	81.09 LF	15"	RCP	CLASS III
DI111 - CB110	384.00'	382.20'	1.30%	138.38 LF	18"	RCP	CLASS III
DI135 - CB134	378.84'	378.15'	0.53%	131.10 LF	24"	RCP	CLASS III
DI141 - CB107	384.00'	383.00'	1.17%	85.54 LF	18"	RCP	CLASS III
DI142 - DI141	385.00'	384.20'	0.96%	83.33 LF	18"	RCP	CLASS III
DI143 - DI142	385.80'	385.20'	0.76%	79.29 LF	18"	RCP	CLASS III
DI143A - DI142	386.50'	386.00'	0.63%	79.29 LF	18"	RCP	CLASS III
DI149 - EW148	371.00'	370.00'	1.44%	69.50 LF	48"	RCP	CLASS III
DI153 - CB152	376.00'	375.54'	0.70%	137.48 LF	30"	RCP	CLASS III
DI154 - DI153	377.10'	376.63'	0.70%	66.89 LF	30"	RCP	CLASS III
DI163 - CB162	378.60'	377.90'	0.51%	136.29 LF	15"	RCP	CLASS III
DI167 - CB166	384.76'	384.20'	2.35%	23.87 LF	15"	RCP	CLASS III
DI188 - DI135	380.10'	378.94'	0.57%	202.55 LF	24"	RCP	CLASS III
DI192 - CB190	388.40'	387.56'	0.66%	126.69 LF	15"	RCP	CLASS III
DI193 - DI192	390.75'	388.60'	1.23%	174.25 LF	15"	RCP	CLASS III
DI194 - DI195	383.10'	381.90'	0.81%	148.33 LF	15"	RCP	CLASS III
DI195 - DI188	381.80'	380.30'	0.59%	254.32 LF	18"	RCP	CLASS III

FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DIA.	MATERIAL	DESCRIPTION
CB202 - FE201	383.75'	383.20'	0.33%	167.79 LF	30"	RCP	CLASS III
CB204 - DI203A	384.16'	383.95'	0.54%	38.73 LF	24"	RCP	CLASS V
CB205 - CB204	384.50'	384.36'	0.52%	27.04 LF	15"	RCP	CLASS V
CB206 - CB202	385.10'	384.40'	0.57%	122.07 LF	24"	RCP	CLASS III
CB207 - CB206	385.60'	385.30'	1.05%	28.48 LF	15"	RCP	CLASS V
CB208 - CB202	384.40'	384.20'	0.74%	27.00 LF	24"	RCP	CLASS III
CB213 - FE212	384.10'	383.00'	0.66%	167.47 LF	30"	RCP	CLASS III
CB214 - CB213	384.50'	384.30'	0.50%	39.99 LF	30"	RCP	CLASS III
CB215 - CB214	385.15'	384.60'	0.55%	99.88 LF	18"	RCP	CLASS III
CB216 - CB215	387.62'	385.25'	4.34%	54.55 LF	15"	RCP	CLASS III
CB217 - CB214	384.75'	384.60'	0.56%	27.00 LF	24"	RCP	CLASS V
CB218 - CB217	384.90'	384.85'	0.56%	9.13 LF	24"	RCP	CLASS IV
DI203 - EW220	383.40'	383.00'	0.47%	85.03 LF	24"	RCP	CLASS V
DI203A - DI203	383.85'	383.50'	0.48%	72.52 LF	24"	RCP	CLASS V
DI209 - CB208	385.40'	384.60'	0.57%	140.85 LF	18"	RCP	CLASS III
DI219 - CB218	385.70'	385.00'	0.56%	125.90 LF	24"	RCP	CLASS III, O-RING

FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DIA.	MATERIAL	DESCRIPTION
CB501 - EW500	355.84'	354.00'	4.38%	42.01 LF	30"	RCP	CLASS III
CB502 - CB501	356.54'	355.94'	0.60%	99.76 LF	30"	RCP	CLASS V
CB503 - CB502	357.00'	356.64'	0.82%	44.10 LF	30"	RCP	CLASS III
CB504 - CB503	357.95'	357.10'	0.54%	157.79 LF	30"	RCP	CLASS III
CB505 - CB504	364.00'	361.00'	3.45%	87.00 LF	24"	RCP	CLASS III
CB506 - CB505	366.00'	364.20'	0.93%	193.28 LF	24"	RCP	CLASS III
CB507 - CB506	371.00'	366.20'	2.29%	210.00 LF	18"	RCP	CLASS III
CB508 - CB507	371.50'	371.20'	1.11%	27.01 LF	15"	RCP	CLASS III
CB509 - CB504	358.21'	357.95'	0.61%	42.43 LF	24"	RCP	CLASS III
CB510 - CB509	358.87'	358.31'	0.60%	93.40 LF	24"	RCP	CLASS III
CB511 - CB520	359.70'	359.20'	0.79%	63.49 LF	15"	RCP	CLASS III
CB512 - CB511	360.09'	359.70'	1.44%	27.15 LF	15"	RCP	CLASS III
CB513 - CB510	361.69'	361.10'	2.15%	27.45 LF	15"	RCP	CLASS III
CB514 - CB505	366.08'	365.92'	0.59%	27.00 LF	18"	RCP	CLASS III
CB515 - CB514	366.44'	366.18'	0.61%	42.43 LF	18"	RCP	CLASS III
CB516 - CB515	366.93'	366.44'	0.60%	82.10 LF	18"	RCP	CLASS III
CB518 - CB516	367.23'	367.03'	0.74%	27.00 LF	15"	RCP	CLASS V
CB519 - CB506	369.61'	369.00'	2.26%	27.01 LF	15"	RCP	CLASS III
CB520 - CB510	359.20'	358.87'	0.77%	42.66 LF	18"	RCP	CLASS III
DI517 - CB516	367.23'	367.03'	0.65%	30.15 LF	15"	RCP	CLASS III

FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DIA.	MATERIAL	DESCRIPTION
CB278 - VI276	360.19'	359.98'	0.82%	25.50 LF	18"	RCP	CLASS III
CB302 - JB301	347.72'	346.12'	1.53%	104.91 LF	36"	RCP	CLASS III, O-RING
CB303 - CB302	349.40'	348.90'	0.60%	82.86 LF	36"	RCP	CLASS III
CB304 - CB303	350.22'	349.51'	0.60%	118.63 LF	36"	RCP	CLASS III
CB305 - CB304	353.80'	353.00'	1.98%	40.48 LF	36"	RCP	CLASS III
CB306 - CB305	356.09'	354.00'	2.03%	103.07 LF	36"	RCP	CLASS III
CB307 - CB306	356.67'	356.19'	0.60%	79.80 LF	36"	RCP	CLASS III
CB308 - VI276	357.79'	357.14'	0.60%	108.48 LF	36"	RCP	CLASS III
CB310 - VI309	359.00'	358.71'	0.81%	35.98 LF	30"	RCP	CLASS III
CB311 - CB310	361.00'	359.20'	2.74%	65.59 LF	30"	RCP	CLASS III
CB312 - CB311	362.20'	361.20'	0.81%	124.08 LF	30"	RCP	CLASS III
CB314 - CB312	362.82'	362.40'	0.61%	68.95 LF	30"	RCP	CLASS III
CB315 - CB314	363.69'	363.16'	0.60%	88.47 LF	30"	RCP	CLASS III
CB316 - CB315	365.00'	363.90'	1.12%	98.46 LF	24"	RCP	CLASS III
CB317 - CB316	366.00'	365.20'	2.04%	39.27 LF	24"	RCP	CLASS III
CB319 - VI318	372.50'	368.20'	4.15%	103.51 LF	18"	RCP	CLASS III
CB320 - CB319	375.00'	372.70'	1.60%	143.96 LF	15"	RCP	CLASS III
CB321 - CB320	376.00'	375.20'	1.28%	62.68 LF	15"	RCP	CLASS III
CB322 - CB321	376.70'	376.20'	0.86%	58.22 LF	15"	RCP	CLASS III
CB323 - CB302	351.75'	350.87'	0.77%	113.78 LF	15"	RCP	CLASS III
CB325 - CB304	352.20'	351.62'	0.52%	110.87 LF	15"	RCP	CLASS V
CB326 - CB303	353.00'	351.00'	7.37%	27.14 LF	15"	RCP	CLASS III
CB327 - CB278	361.80'	360.69'	2.35%	47.18 LF	18"	RCP	CLASS III
CB329 - VI328	369.00'	366.20'	3.54%	79.14 LF	15"	RCP	CLASS III
CB330 - CB329	370.00'	369.20'	2.96%	27.00 LF	15"	RCP	CLASS III
CB332 - VI328	367.00'	366.20'	2.54%	31.51 LF	15"	RCP	CLASS III
CB333 - CB308	361.5						



01/02/2024

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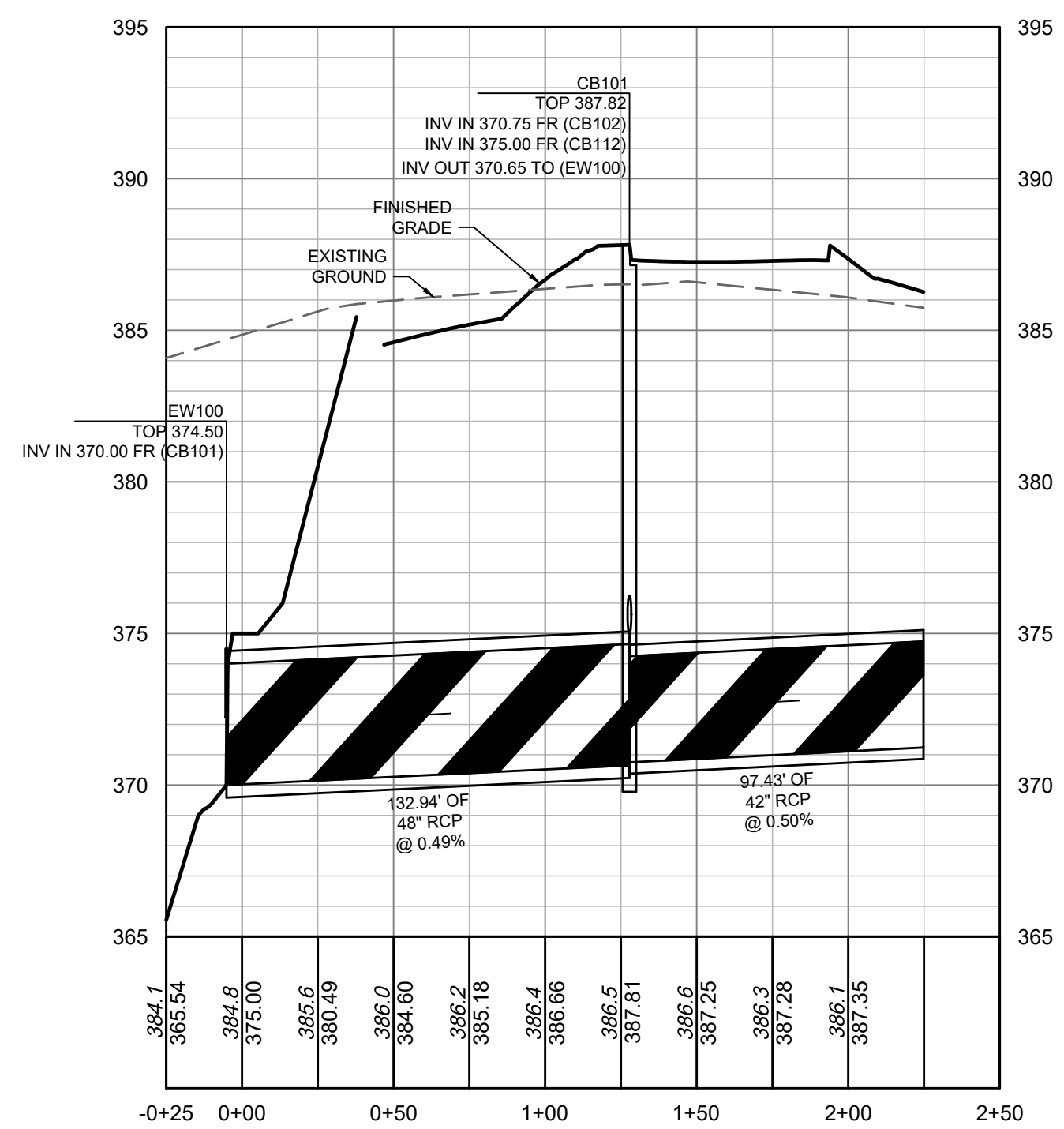
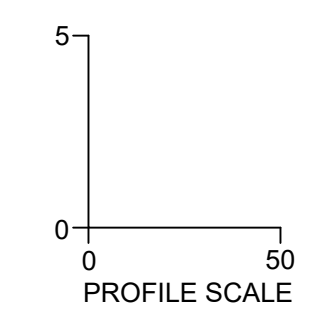
DATE	REVISION DESCRIPTION
06/24/2022	REVISIONS PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021	DRAWN BY R. WINGATE
	DESIGNED BY P. BARBEAU
	CHECKED BY P. BARBEAU
	SCALE AS SHOWN

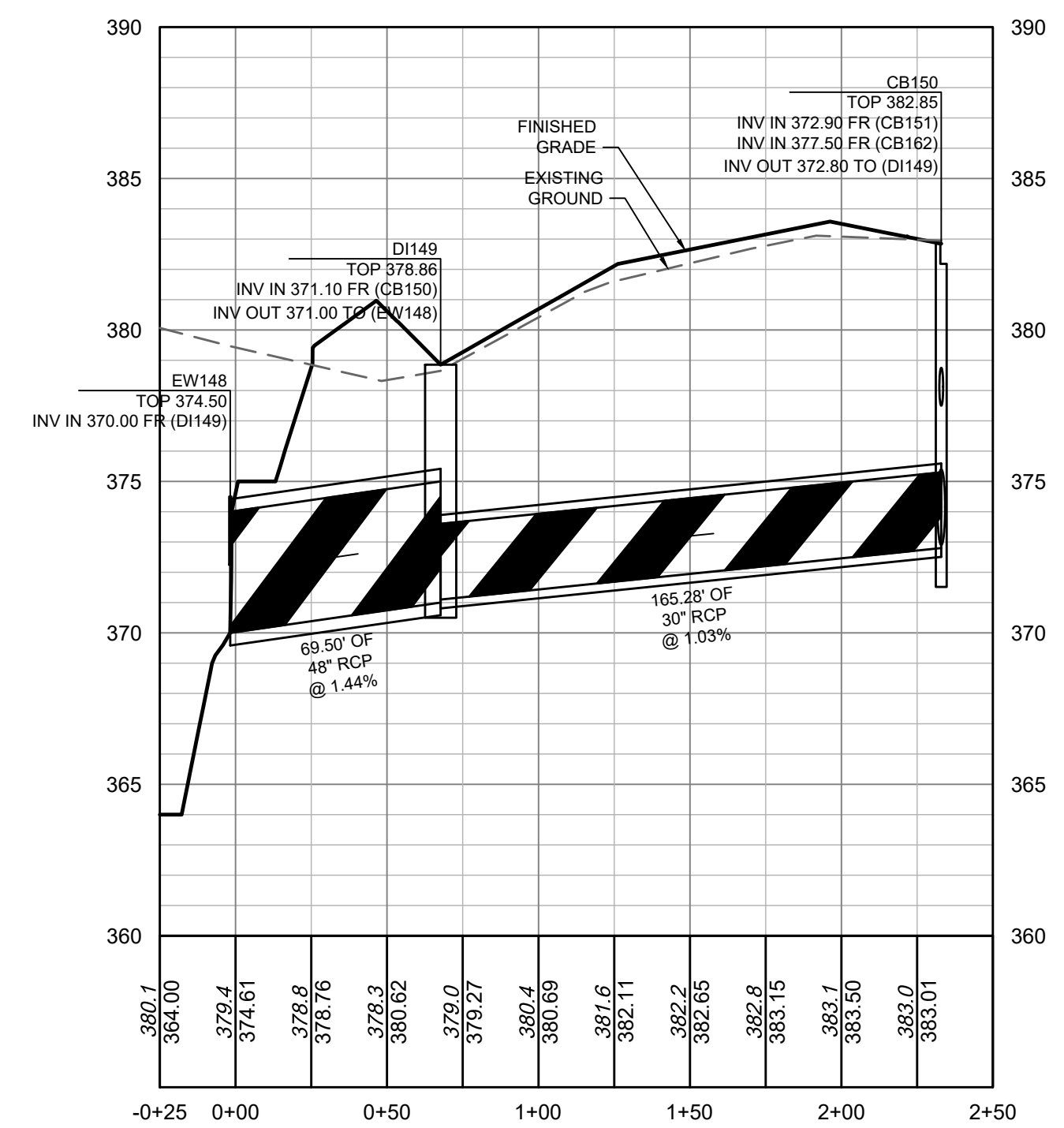
TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
STORM PROFILES

JOB NO. 43398
SHEET NO. C3.8

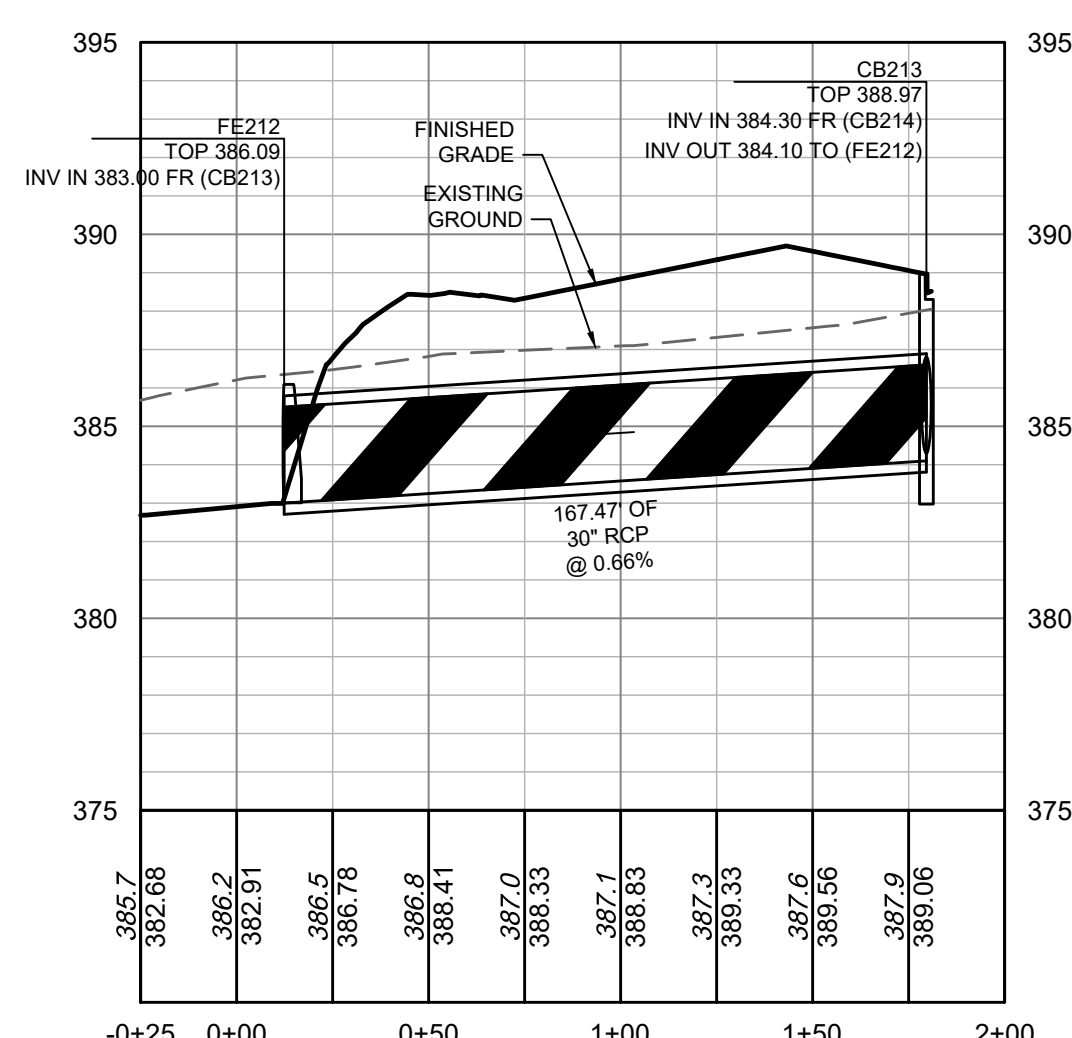
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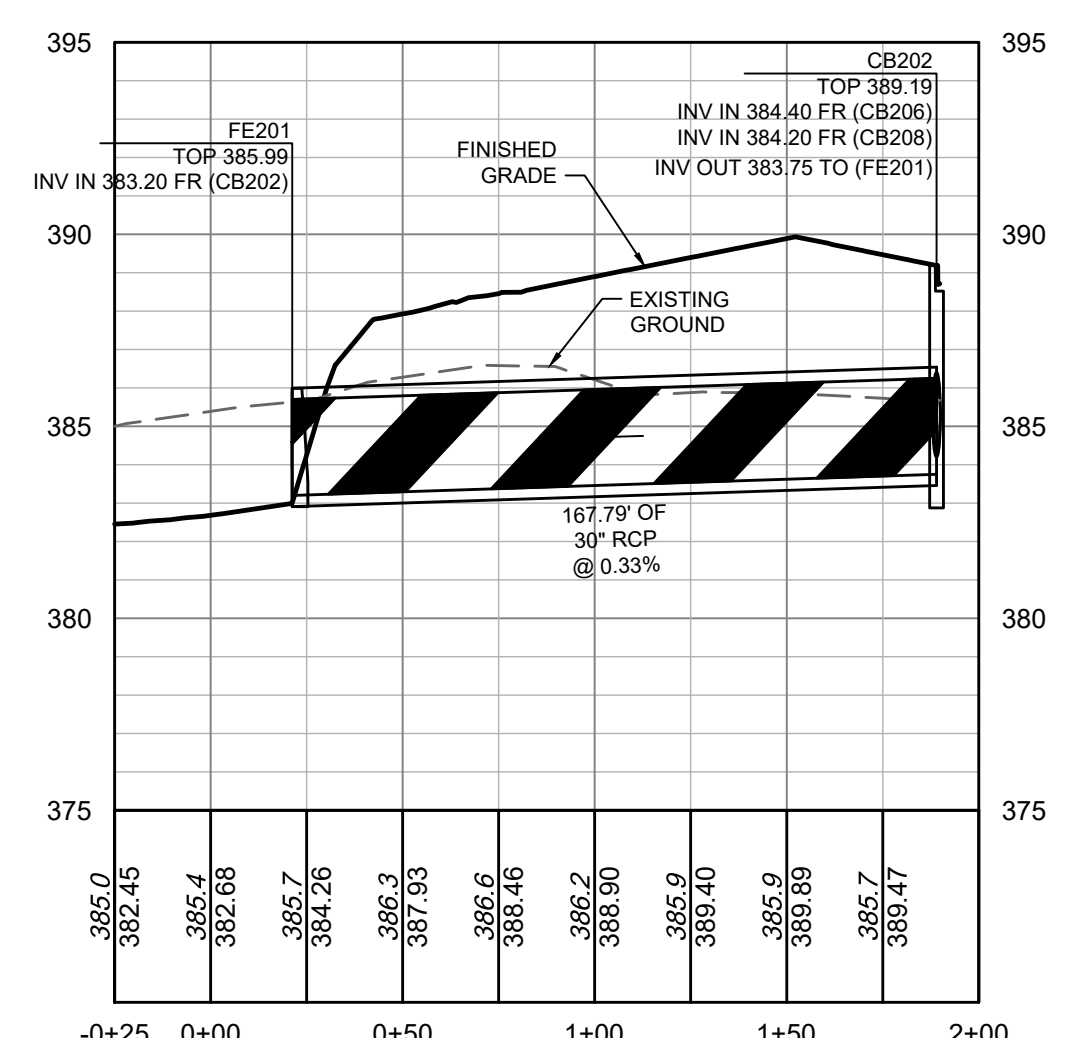
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SCM 1 INLET 2
-0+25 - 2+50



SCM 2 INLET 2
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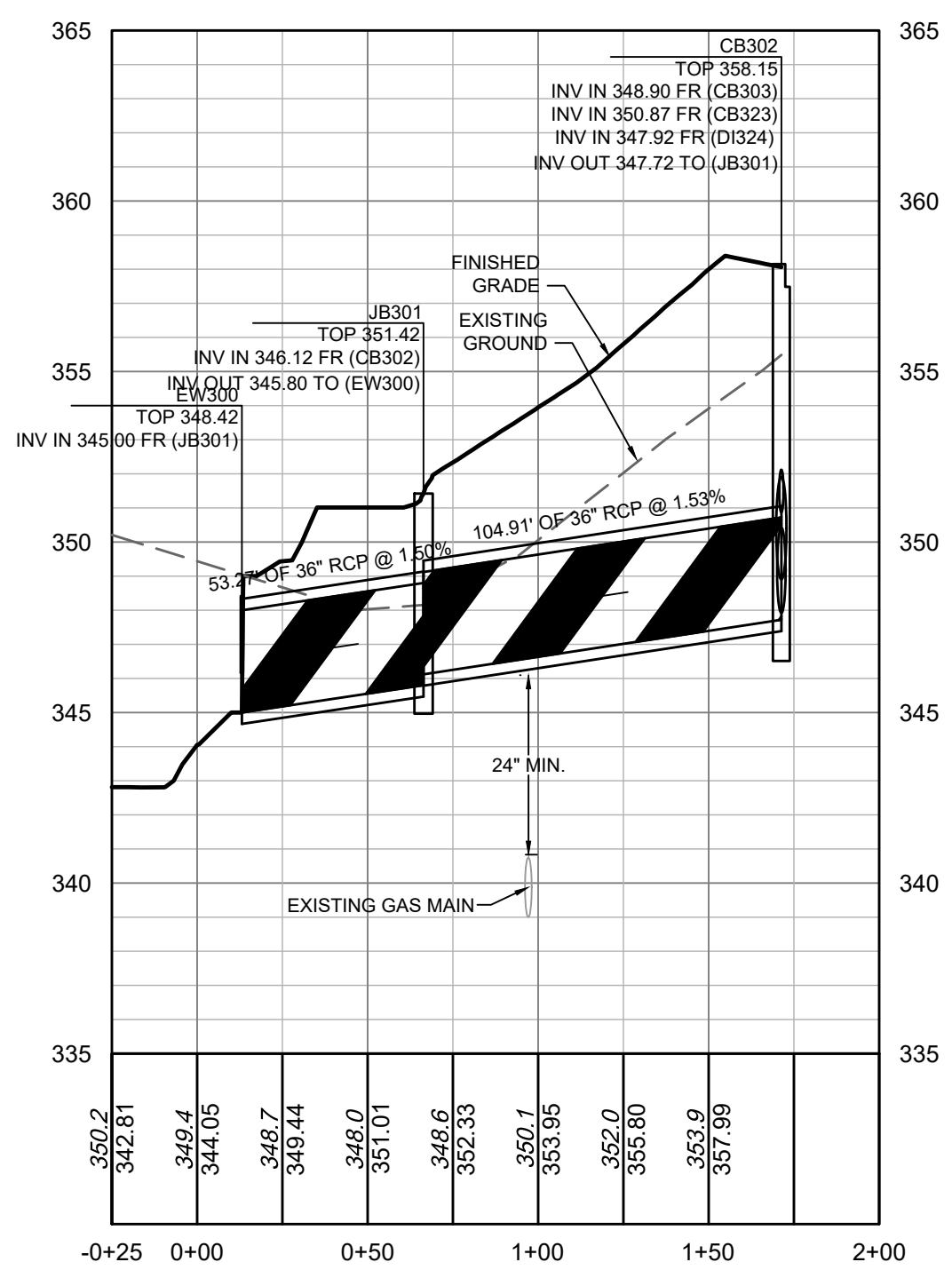


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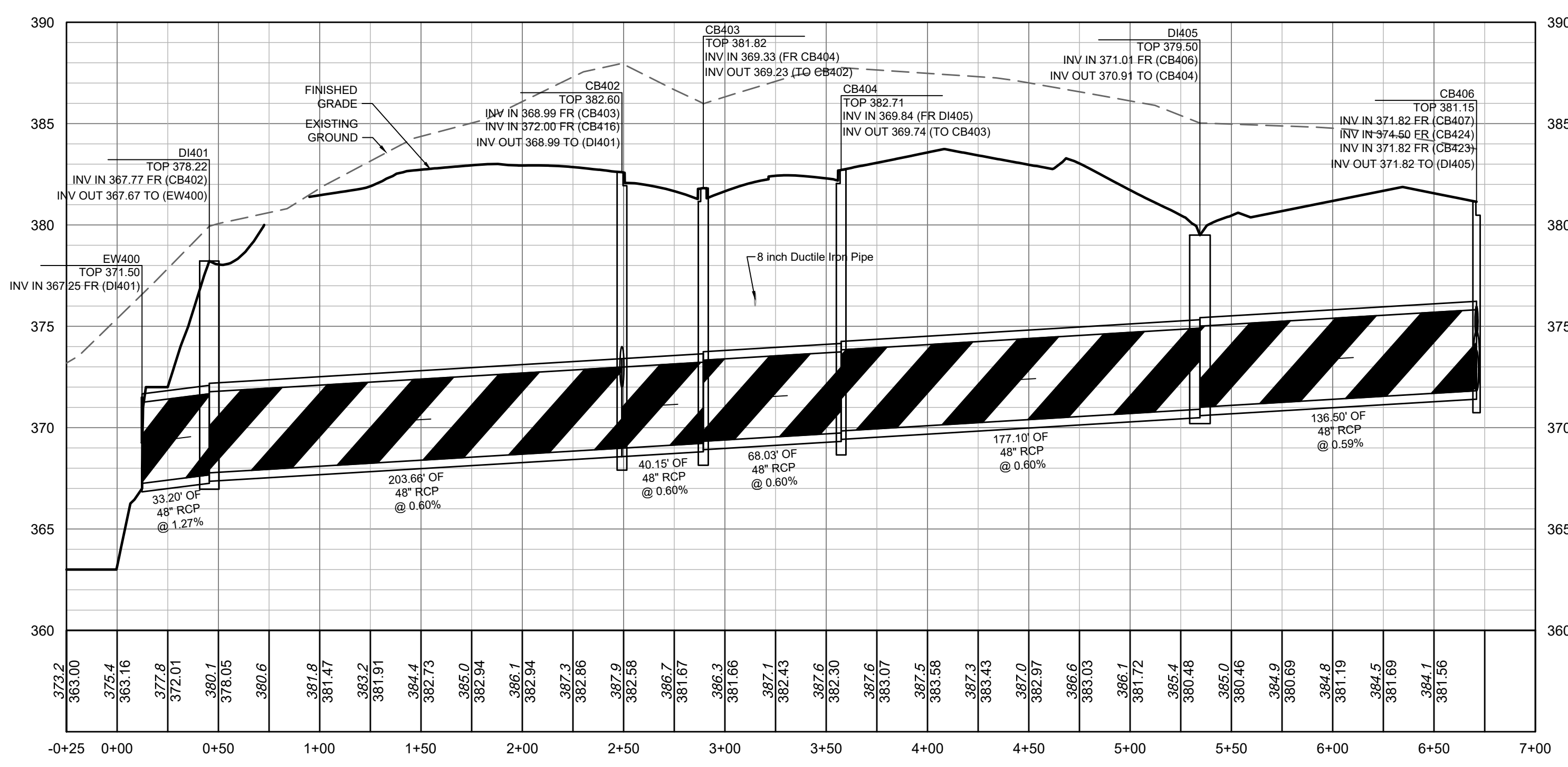
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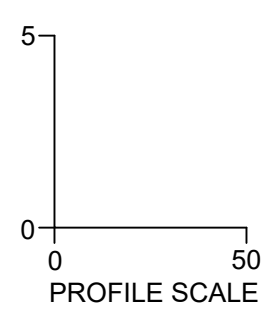
01/02/2024



SCM3 INLET -0+25 - 2+00



SCM4 INLET -0+25 - 7+00



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DATE	09/17/2021
DRAWN BY	R. WINGATE
DESIGNED BY	P. BARBEAU
CHECKED BY	P. BARBEAU
SCALE	AS SHOWN

ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

STORM PROFILES

JOB NO.	43398
SHEET NO.	C3.9

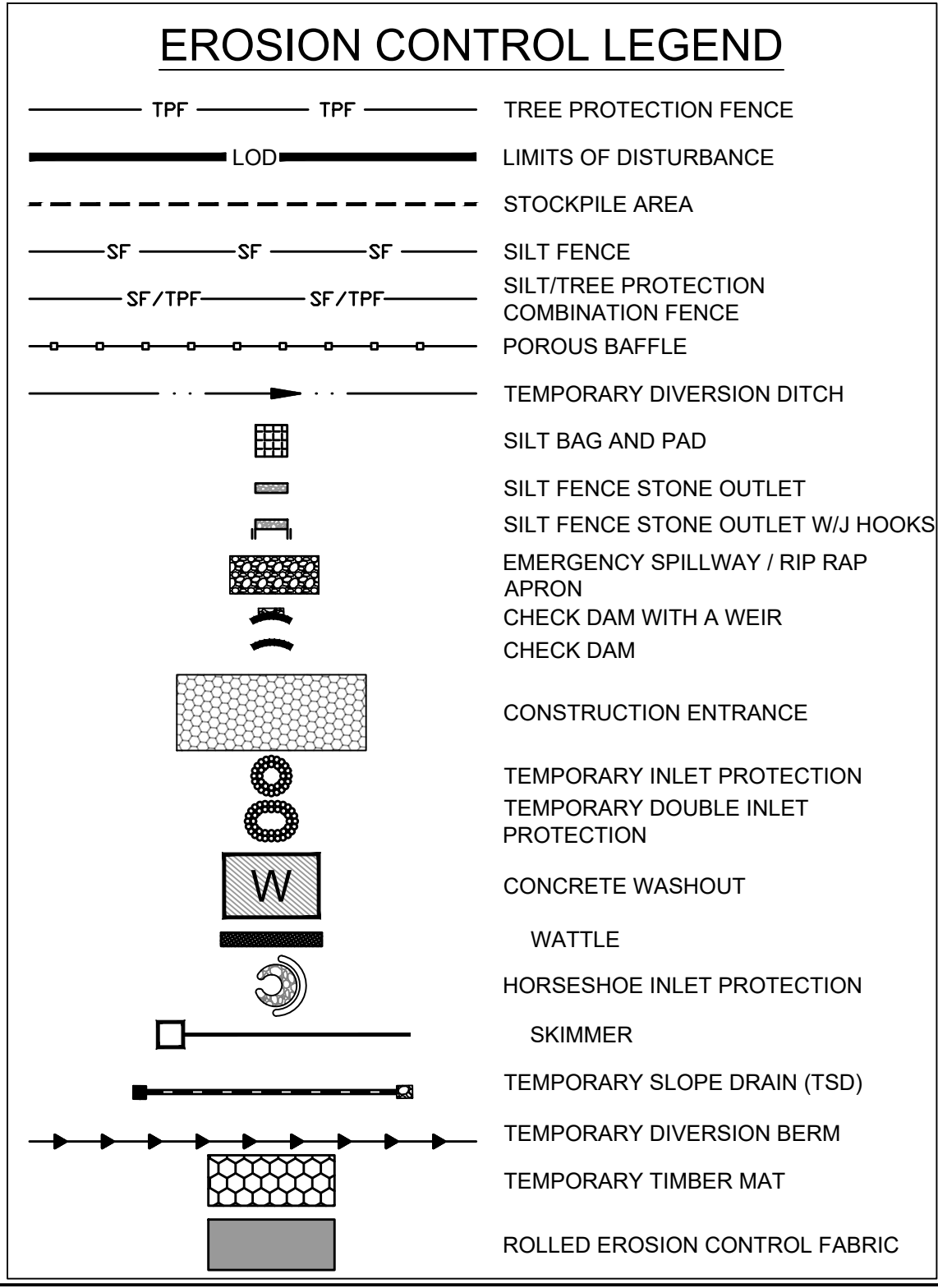
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LOD AND SILT FENCE SHOWN FOR OVERALL ILLUSTRATIVE PURPOSES. REFER TO SHEET C4.14 FOR FURTHER DETAILS FOR FORCEMAIN INSTALLATION ALONG AMAZON TRAIL

ATTENTION CONTRACTORS
 The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.
 Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.
 Failure to call for inspection, install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.



- TEMPORARY STOCKPILE NOTES**
- STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES, WITH A MAXIMUM HEIGHT OF 35 FT WITH 2:1 OR FLATTER SLOPES.
 - SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEVED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
 - 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.
 - THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
 - ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

- STAGE 1 WAKE COUNTY EROSION CONTROL SEQUENCE**
- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT KARYN PAGEAU, 919-796-8769. OBTAIN A LAND DISTURBING PERMIT.
 - CONTRACTOR SHALL OBTAIN AND READ ALL PERMITS NECESSARY TO COMPLETE THE PROJECT, INCLUDING BUT NOT LIMITED TO LAND DISTURBANCE PERMIT.
 - INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE, ETC. AS SHOWN ON THESE PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
 - INSTALL SEDIMENT SKIMMER BASINS. IN BASINS 1, 2, 4, AND 5 INSTALL PERMANENT RISER AND OUTFALL WITH TEMPORARY SKIMMER BASIN. PROMPTLY SEED/STABILIZE ALL SLOPES. SEE DETAILS. INSTALL RISER AND CONNECT SKIMMER TO RISER. EMBANKMENTS TO BE CONSTRUCTED AND TESTED AS PERMANENT STRUCTURES PER THE STORMWATER DETAILS WITHIN THIS PLAN SET.
 - PROMPTLY STABILIZE ALL 3:1 SLOPES OR GREATER AROUND BASINS AND DOWN-SLOPE OF DISTURBANCE ACTIVITY. SEED/USE EROSION CONTROL BLANKETS SUCH AS NORTH AMERICAN GREEN S150, OR SIMILAR PRODUCT RATED FOR STEEP SLOPES.
 - INSTALL TEMPORARY DIVERSION BERM/DITCHES WITH SEED & LINER. INSTALL ALL REMAINING EROSION CONTROL MEASURES PER THIS PLAN.
 - CALL 919.796.8769 FOR AN ONSITE INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER & OBTAIN CERTIFICATE OF COMPLIANCE.
 - BEGIN CLEARING AND GRUBBING AND ROUGH SITE GRADING. MAINTAIN DEVICES AS NEEDED.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION. ALL EROSION CONTROL DEVICES SHOULD BE INSPECTED AFTER EACH RAINFALL EVENT, AND ON A WEEKLY BASIS, AND REFURBISHED IMMEDIATELY. DO NOT REMOVE SKIMMER BASINS NOR OTHER MEASURES UNTIL INSTRUCTED TO DO SO. SKIMMER BASINS TO REMAIN THROUGHOUT CONSTRUCTION.
 - PROCEED TO STAGE 2 EROSION CONTROL PLANS / SEQUENCE FOR CONTINUATION.

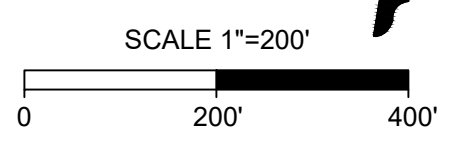
- GENERAL NOTES**
- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
 - THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR THE ARCHITECT.
 - THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING THIS PHASE OF WORK AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY TRACKED SOIL FROM ALL ADJACENT ROADWAYS THAT ARE IMPACTED BY CONSTRUCTION TRAFFIC. THE OWNER RESERVES THE RIGHT TO REQUIRE THAT A WASH STATION BE INSTALLED AT NO ADDITIONAL COST IF PAVEMENT AREAS ARE NOT KEPT CLEAN.
 - CONTRACTOR SHALL ABIDE BY ALL CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NO. NCG010000.
 - A PRECONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO WORK, GRADING PERMIT AND INSTALLATION OF EROSION CONTROL.
 - UTILITY LOCATIONS ARE TO BE FOUND BY CALLING NC ONE CALL.
 - ALL TEMPORARY MEASURES SHALL BE REMOVED AT THE END OF THE CONSTRUCTION OF THE PROJECT.
 - CUT AND FILL SLOPES SHALL BE STABILIZED AS REQUIRED BY THE GENERAL PERMIT STABILIZATION REQUIREMENTS FOUND ON THIS SHEET.
 - SILT FENCING SHALL BE INSTALLED AROUND THE PERIMETER SEPARATING EXISTING PEDESTRIAN TRAFFIC AREAS.
 - ALL CUT AND FILL SLOPES ARE TO BE AT A 3:1 MAXIMUM UNLESS OTHERWISE NOTED.
 - THERE SHALL BE NO SOIL DISTURBANCE OR RECOMPACTION WITHIN AREAS DESIGNATED FOR THE TREE PRESERVATION AND PROTECTION FENCING, INCLUDING NO STOCKPILING OF CONSTRUCTION OR OTHER MATERIAL, TRAFFIC, OR BORING SAMPLE.
 - STOCKPILE HEIGHT SHALL NOT EXCEED 35'.

EROSION CONTROL PLAN-STAGE 1 KEYNOTES

NUMBER	DESCRIPTION
EC101	LIMITS OF DISTURBANCE
EC102	SILT FENCE. REFER TO DETAIL (TYP.)
EC103	SILT FENCE OUTLET. REFER TO DETAIL (TYP.)
EC104	TEMPORARY 25' x 100' CONSTRUCTION ENTRANCE. REFER TO DETAIL
EC105	SILT-TREE COMBINATION FENCE. REFER TO DETAIL (TYP.)
EC106	TREE FENCE. REFER TO DETAIL (TYP.)
EC107	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #1 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.0 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC108	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #2 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.1 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC109	TEMPORARY SKIMMER BASIN #3 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC110	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #4 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.3 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC111	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #5 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.4 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC112	TEMPORARY SKIMMER BASIN #6 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC113	TEMPORARY SKIMMER BASIN #7 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC114	TEMPORARY SKIMMER BASIN #8 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC115	TEMPORARY SKIMMER BASIN #9 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC116	SPILLWAY-REFER TO BASIN SUMMARY ON SHEET C4.1 (TYP.)
EC117	TEMP. DIVERSION DITCH #1A (REFER TO C4.1)
EC118	TEMP. DIVERSION DITCH #1B (REFER TO C4.1)
EC119	TEMP. DIVERSION DITCH #2A (REFER TO C4.1)
EC120	TEMP. DIVERSION DITCH #2B (REFER TO C4.1)
EC121	TEMP. DIVERSION DITCH #3A (REFER TO C4.1)
EC122	TEMP. DIVERSION DITCH #3B (REFER TO C4.1)
EC123	TEMP. DIVERSION DITCH #4A (REFER TO C4.1)
EC124	TEMP. DIVERSION DITCH #4B (REFER TO C4.1)
EC125	TEMP. DIVERSION DITCH #5A (REFER TO C4.1)
EC126	TEMP. DIVERSION DITCH #5B (REFER TO C4.1)
EC127	TEMP. DIVERSION DITCH #6A (REFER TO C4.1)
EC128	TEMP. DIVERSION DITCH #6B (REFER TO C4.1)
EC129	TEMP. DIVERSION DITCH #7A (REFER TO C4.1)
EC130	TEMP. DIVERSION DITCH #7B (REFER TO C4.1)
EC131	TEMP. DIVERSION DITCH #8A (REFER TO C4.1)
EC132	TEMP. DIVERSION DITCH #8B (REFER TO C4.1)
EC133	TEMP. DIVERSION DITCH #9A (REFER TO C4.1)
EC134	TEMP. DIVERSION DITCH #9B (REFER TO C4.1)
EC135	ROCK CHECK DAM REFER TO DETAIL (TYP.)
EC136	POROUS BAFFLES (TYP.)
EC137	SILT BAG AND SILT BAG PAD
EC138	IMPERMEABLE MEMBRANE APRON
EC139	3:1 SIDE SLOPE
EC140	STOCKPILE AREA
EC141	CONCRETE WASHOUT
EC142	TEMPORARY CLASS III 18" RCP PIPE FOR DITCH CROSSING
EC143	TEMPORARY HORSESHOE INLET PROTECTION
EC144	PIPE OUTFALL PROTECTION. (REFER TO C4.1)
EC145	DIVERSION DITCH OUTLET PROTECTION (REFER TO C4.1 AND STORM PLAN FOR DETAILS)
EC146	TEMPORARY PIPE FOR OUTFALL CROSSING
EC147	ROCK CHECK DAM WITH WEIR (REFER TO STREAM CROSSING PLAN)
EC148	SILT FENCE OUTLET WITH J HOOKS (TYP. AT STREAM CROSSINGS)

- Required Wake County Basin Removal Sequence**
- 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.
 - 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.
 - Perform seedbed preparation, seed, mulch and asphalt tack any resulting bare areas immediately.
 - Install velocity dissipators and/or level spreaders as required on the Erosion Control Plan.
 - 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.

- MAINTENANCE PLAN:**
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED 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.
 - REMOVE SEDIMENT FROM BEHIND SILT FENCE WHEN DEPTH REACHES 6 INCHES AT THE FENCE. REPAIR SILT FENCE AS NECESSARY TO MAINTAIN A BARRIER.
 - ALL SEEDING AREAS SHALL BE FERTILIZED, RE-SEEDING AS NECESSARY, AND MULCHED ACCORDING TO PROJECT SPECS TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE GROWTH.
 - TOP DRESS CONSTRUCTION ENTRANCES WITH CLEAN STONE AS NECESSARY TO MAINTAIN PROPER FUNCTIONING.
 - REFER TO SPECIFIC DEVICE DETAILS FOR ADDITIONAL MAINTENANCE REQUIREMENTS.



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



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REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
CONSTRUCTION DOCUMENT SUBMITTAL	07/22/2022
REVISIONS PER NCDOT COMMENTS	04/06/2023
REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024

DATE: 09/17/2021
 DRAWN BY: A. BROWN
 DESIGNED BY: P. BARBEAU
 CHECKED BY: P. BARBEAU
 SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

EROSION CONTROL-STAGE 1 OVERALL

JOB NO. 43398
 SHEET NO. C4.0

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BASIN SUMMARY SCHEDULE

BASIN NAME	BASIN 1	BASIN NAME	BASIN 2	BASIN NAME	BASIN 3	BASIN NAME	BASIN 4	BASIN NAME	BASIN 5	BASIN NAME	BASIN 6	BASIN NAME	BASIN 7
BASIN TYPE	RISER	BASIN TYPE	RISER	BASIN TYPE	RISER	BASIN TYPE	RISER	BASIN TYPE	RISER	BASIN TYPE	SKIMMER	BASIN TYPE	SKIMMER
TOTAL DRAINAGE AREA	21.62 acres	TOTAL DRAINAGE AREA	8.07 acres	TOTAL DRAINAGE AREA	1.12 acres	TOTAL DRAINAGE AREA	7.49 acres	TOTAL DRAINAGE AREA	3.44 acres	TOTAL DRAINAGE AREA	3.70 acres	TOTAL DRAINAGE AREA	13.63 acres
Tc (TIME OF CONCENTRATION)	5 min	Tc (TIME OF CONCENTRATION)	5 min	Tc (TIME OF CONCENTRATION)	5 min	Tc (TIME OF CONCENTRATION)	10 min	Tc (TIME OF CONCENTRATION)	10 min	Tc (TIME OF CONCENTRATION)	5 min	Tc (TIME OF CONCENTRATION)	10 min
C VALUE	0.50	C VALUE	0.50	C VALUE	0.50	C VALUE	0.50	C VALUE	0.50	C VALUE	0.50	C VALUE	0.50
I (10 YEAR STORM)	7.20 in/hr	I (10 YEAR STORM)	7.20 in/hr	I (10 YEAR STORM)	7.20 in/hr	I (10 YEAR STORM)	5.76 in/hr	I (10 YEAR STORM)	5.76 in/hr	I (10 YEAR STORM)	7.20 in/hr	I (10 YEAR STORM)	7.20 in/hr
SURFACE AREA CALCULATION:		SURFACE AREA CALCULATION:		SURFACE AREA CALCULATION:		SURFACE AREA CALCULATION:		SURFACE AREA CALCULATION:		SURFACE AREA CALCULATION:		SURFACE AREA CALCULATION:	
Q10 = CIA	78 cfs	Q10 = CIA	29 cfs	Q10 = CIA	4 cfs	Q10 = CIA	22 cfs	Q10 = CIA	10 cfs	Q10 = CIA	13 cfs	Q10 = CIA	49 cfs
SURFACE AREA (AC) = 435 SF * Q10 (CFS)		SURFACE AREA (AC) = 435 SF * Q10 (CFS)		SURFACE AREA (AC) = 435 SF * Q10 (CFS)		SURFACE AREA (AC) = 435 SF * Q10 (CFS)		SURFACE AREA (AC) = 435 SF * Q10 (CFS)		SURFACE AREA (AC) = 435 SF * Q10 (CFS)		SURFACE AREA (AC) = 435 SF * Q10 (CFS)	
SURFACE AREA REQUIRED	33,857 ft ²	SURFACE AREA REQUIRED	12,638 ft ²	SURFACE AREA REQUIRED	1,754 ft ²	SURFACE AREA REQUIRED	9,383 ft ²	SURFACE AREA REQUIRED	4,310 ft ²	SURFACE AREA REQUIRED	5,794 ft ²	SURFACE AREA REQUIRED	21,345 ft ²
RECTANGLE BASIN PROVIDED	99.5' X 349.4'	RECTANGLE BASIN PROVIDED	50' X 279'	RECTANGLE BASIN PROVIDED	70' X 140'	RECTANGLE BASIN PROVIDED	99.5' X 349.4'	RECTANGLE BASIN PROVIDED	60' X 120'	RECTANGLE BASIN PROVIDED	60' X 120'	RECTANGLE BASIN PROVIDED	104' X 212'
SURFACE AREA PROVIDED	40,474 ft ²	SURFACE AREA PROVIDED	22,949 ft ²	SURFACE AREA PROVIDED	10,740 ft ²	SURFACE AREA PROVIDED	17,593 ft ²	SURFACE AREA PROVIDED	8,258 ft ²	SURFACE AREA PROVIDED	5,881 ft ²	SURFACE AREA PROVIDED	23,812 ft ²
BASIN VOLUME CALCULATION:		BASIN VOLUME CALCULATION:		BASIN VOLUME CALCULATION:		BASIN VOLUME CALCULATION:		BASIN VOLUME CALCULATION:		BASIN VOLUME CALCULATION:		BASIN VOLUME CALCULATION:	
BASIN VOLUME DESIGN = 1,800 ft ³ /acre		BASIN VOLUME DESIGN = 1,800 ft ³ /acre		BASIN VOLUME DESIGN = 1,800 ft ³ /acre		BASIN VOLUME DESIGN = 1,800 ft ³ /acre		BASIN VOLUME DESIGN = 1,800 ft ³ /acre		BASIN VOLUME DESIGN = 1,800 ft ³ /acre		BASIN VOLUME DESIGN = 1,800 ft ³ /acre	
BASIN VOLUME REQUIRED	38,916 ft ³	BASIN VOLUME REQUIRED	14,526 ft ³	BASIN VOLUME REQUIRED	2,016 ft ³	BASIN VOLUME REQUIRED	13,482 ft ³	BASIN VOLUME REQUIRED	6,192 ft ³	BASIN VOLUME REQUIRED	6,660 ft ³	BASIN VOLUME REQUIRED	24,534 ft ³
BASIN VOLUME PROVIDED	0 ft ³	BASIN VOLUME PROVIDED	41,376 ft ³	BASIN VOLUME PROVIDED	42,446 ft ³	BASIN VOLUME PROVIDED	68,733 ft ³	BASIN VOLUME PROVIDED	32,943 ft ³	BASIN VOLUME PROVIDED	13,723 ft ³	BASIN VOLUME PROVIDED	63,172 ft ³
TOP OF EMBANKMENT ELEVATION	376	TOP OF EMBANKMENT ELEVATION	386	TOP OF EMBANKMENT ELEVATION	351	TOP OF EMBANKMENT ELEVATION	374	TOP OF EMBANKMENT ELEVATION	357	TOP OF EMBANKMENT ELEVATION	360	TOP OF EMBANKMENT ELEVATION	371
EMBANKMENT WIDTH	10 ft	EMBANKMENT WIDTH	10 ft	EMBANKMENT WIDTH	10 ft	EMBANKMENT WIDTH	10 ft	EMBANKMENT WIDTH	10 ft	EMBANKMENT WIDTH	10 ft	EMBANKMENT WIDTH	10 ft
BOTTOM ELEVATION	370.00	BOTTOM ELEVATION	383.00	BOTTOM ELEVATION	345.00	BOTTOM ELEVATION	368.00	BOTTOM ELEVATION	350.00	BOTTOM ELEVATION	356.00	BOTTOM ELEVATION	367.00
EMERGENCY SPILLWAY ELEVATION	375.00	EMERGENCY SPILLWAY ELEVATION	385.00	EMERGENCY SPILLWAY ELEVATION	350.00	EMERGENCY SPILLWAY ELEVATION	373.00	EMERGENCY SPILLWAY ELEVATION	356.00	EMERGENCY SPILLWAY ELEVATION	359.00	EMERGENCY SPILLWAY ELEVATION	370.00
BASIN DEPTH	5 ft	BASIN DEPTH	2 ft	BASIN DEPTH	5 ft	BASIN DEPTH	5 ft	BASIN DEPTH	6 ft	BASIN DEPTH	3 ft	BASIN DEPTH	3 ft
EMERGENCY SPILLWAY WIDTH	48.5 ft	EMERGENCY SPILLWAY WIDTH	30 ft	EMERGENCY SPILLWAY WIDTH	10 ft	EMERGENCY SPILLWAY WIDTH	45 ft	EMERGENCY SPILLWAY WIDTH	20 ft	EMERGENCY SPILLWAY WIDTH	15 ft	EMERGENCY SPILLWAY WIDTH	48 ft
SEDIMENT STORAGE VOLUME	28,332 ft ³	SEDIMENT STORAGE VOLUME	12,024 ft ³	SEDIMENT STORAGE VOLUME	6,950 ft ³	SEDIMENT STORAGE VOLUME	28,332 ft ³	SEDIMENT STORAGE VOLUME	4,392 ft ³	SEDIMENT STORAGE VOLUME	5,688 ft ³	SEDIMENT STORAGE VOLUME	19,312 ft ³
	@ 376'		@ 386'		@ 351'		@ 374'		@ 357'		@ 359'		@ 370'
TOP OF RISER ELEVATION	373.00	TOP OF RISER ELEVATION	384.00 ft	TOP OF RISER ELEVATION	348.50	TOP OF RISER ELEVATION	371.00	TOP OF RISER ELEVATION	353.00	TOP OF RISER ELEVATION	353.00	TOP OF RISER ELEVATION	353.00
PROVIDE 3 BAFFLES		PROVIDE 3 BAFFLES		PROVIDE 3 BAFFLES		PROVIDE 3 BAFFLES		PROVIDE 3 BAFFLES		PROVIDE 3 BAFFLES		PROVIDE 3 BAFFLES	
SKIMMER SIZE	5 inch	SKIMMER SIZE	3 inch	SKIMMER SIZE	2.5 inch	SKIMMER SIZE	3 inch	SKIMMER SIZE	3 inch	SKIMMER SIZE	3 inch	SKIMMER SIZE	4 inch
ORIFICE DIAMETER	3 inch	ORIFICE DIAMETER	2 inch	ORIFICE DIAMETER	0.75 inch	ORIFICE DIAMETER	1.75 inch	ORIFICE DIAMETER	1.25 inch	ORIFICE DIAMETER	1.25 inch	ORIFICE DIAMETER	2.25 inch
DEWATERING TIME	3.24 days	DEWATERING TIME	3.14 days	DEWATERING TIME	3.40 days	DEWATERING TIME	3.81 days	DEWATERING TIME	3.43 days	DEWATERING TIME	3.69 days	DEWATERING TIME	3.64 days

BASIN NAME	BASIN 8	BASIN NAME	BASIN 9
BASIN TYPE	SKIMMER	BASIN TYPE	SKIMMER
TOTAL DRAINAGE AREA	8.13 acres	TOTAL DRAINAGE AREA	3.61 acres
Tc (TIME OF CONCENTRATION)	5 min	Tc (TIME OF CONCENTRATION)	5 min
C VALUE	0.50	C VALUE	0.50
I (10 YEAR STORM)	7.20 in/hr	I (10 YEAR STORM)	7.20 in/hr
SURFACE AREA CALCULATION:		SURFACE AREA CALCULATION:	
Q10 = CIA	29 cfs	Q10 = CIA	13 cfs
SURFACE AREA (AC) = 435 SF * Q10 (CFS)		SURFACE AREA (AC) = 435 SF * Q10 (CFS)	
SURFACE AREA REQUIRED	12,732 ft ²	SURFACE AREA REQUIRED	5,653 ft ²
RECTANGLE BASIN PROVIDED	80' X 165'	RECTANGLE BASIN PROVIDED	56' X 112'
SURFACE AREA PROVIDED	14,561 ft ²	SURFACE AREA PROVIDED	7,261 ft ²
BASIN VOLUME CALCULATION:		BASIN VOLUME CALCULATION:	
BASIN VOLUME DESIGN = 1,800 ft ³ /acre		BASIN VOLUME DESIGN = 1,800 ft ³ /acre	
BASIN VOLUME REQUIRED	14,634 ft ³	BASIN VOLUME REQUIRED	6,498 ft ³
BASIN VOLUME PROVIDED	37,314 ft ³	BASIN VOLUME PROVIDED	17,377 ft ³
TOP OF EMBANKMENT ELEVATION	357	TOP OF EMBANKMENT ELEVATION	390
EMBANKMENT WIDTH	10 ft	EMBANKMENT WIDTH	10 ft
BOTTOM ELEVATION	353.00	BOTTOM ELEVATION	386.00
EMERGENCY SPILLWAY ELEVATION	356.00	EMERGENCY SPILLWAY ELEVATION	389.00
BASIN DEPTH	3 ft	BASIN DEPTH	3 ft
EMERGENCY SPILLWAY WIDTH	30 ft	EMERGENCY SPILLWAY WIDTH	20 ft
SEDIMENT STORAGE VOLUME	11,103 ft ³	SEDIMENT STORAGE VOLUME	4,868 ft ³
	@ 356'		@ 389'
PROVIDE 3 BAFFLES		PROVIDE 3 BAFFLES	
SKIMMER SIZE	4 inch	SKIMMER SIZE	3 inch
ORIFICE DIAMETER	1.75 inch	ORIFICE DIAMETER	1.25 inch
DEWATERING TIME	3.58 days	DEWATERING TIME	3.60 days

DIVERSION DITCH SUMMARY SCHEDULE

DITCH NAME	TOP WIDTH "A"	MIN. DITCH DEPTH (FT) "B"	BOTTOM WIDTH (FT) "C"	SIDE SLOPE "D"	LINER TYPE & THICKNESS
TDD 1A	15 FT	2 FT	3	3:1	North American Green, S75
TDD 1B	10 FT	1.5 FT	1	3:1	North American Green, S75
TDD 2A	8.8 FT	1.3 FT	1	3:1	North American Green, S75
TDD 2B	8.2 FT	1.2 FT	1	3:1	North American Green, S75
TDD 3A	7 FT	1 FT	1	3:1	North American Green, S75
TDD 3B	7 FT	1 FT	1	3:1	North American Green, S75
TDD 4A	10.5 FT	1.5 FT	1.5	3:1	North American Green, S75
TDD 4B	7 FT	1 FT	1	3:1	North American Green, S75
TDD 5A	7.6 FT	1.1 FT	1	3:1	North American Green, S75
TDD 5B	8.2 FT	1.2 FT	1	3:1	North American Green, S75
TDD 6A	8.2 FT	1.2 FT	1	3:1	North American Green, S75
TDD 6B	7 FT	1 FT	1	3:1	North American Green, S75
TDD 7A	12 FT	1.75 FT	1.5	3:1	North American Green, S75
TDD 7B	6 FT	1 FT	0	3:1	North American Green, S75
TDD 8A	11 FT	1.5 FT	2	3:1	North American Green, S75
TDD 8B	5.5 FT	0.75 FT	1	3:1	North American Green, S75
TDD 9A	8.2 FT	1.2 FT	1	3:1	North American Green, S75
TDD 9B	7 FT	1 FT	1	3:1	North American Green, S75

DITCH OUTLET PROTECTION (NYDOT METHOD)				
DITCH NAME	APRON WIDTH (ft)	RIP RAP CLASS	APRON THICKNESS (in)	APRON LENGTH (ft)
TDD1A	15.0	B	18.0	24.0
TDD1B	10.0	A	12.0	10.0
TDD2A	8.8	A	12.0	8.0
TDD2B	8.2	A	12.0	8.0
TDD3A	7.0	A	12.0	6.0
TDD3B	7.0	A	12.0	6.0
TDD4A	10.5	A	12.0	10.0
TDD4B	7.0	A	12.0	6.0
TDD5A	8.2	A	12.0	6.0
TDD5B	8.2	A	12.0	6.0
TDD6A	8.2	A	12.0	6.0
TDD6B	7.0	A	12.0	6.0
TDD7A	12.0	B	18.0	18.0
TDD7B	6.0	A	12.0	6.0
TDD8A	11.0	B	18.0	18.0
TDD8B	5.5	A	12.0	4.0
TDD9A	8.2	A	12.0	8.0
TDD9B	7.0	A	12.0	6.0

NOTE: DIMENSIONS LISTED ARE MINIMUM CRITERIA. RIP RAP APRON SHOULD CONTINUE TO THE TOP OF THE SLOPE FROM POINT OF OUTFALL.

PIPE OUTLET PROTECTION (NYDOT METHOD)					
STRUCTURE NAME	PIPE DIAMETER (in)	RIP RAP CLASS	APRON THICKNESS (in)	APRON LENGTH (ft)	APRON WIDTH (ft)
CULVERT 1	72 (2 PIPES)	1	36	40	22.5
CULVERT 2	44 (2 PIPES)	1	24	20	15.0
EW100	48	B	18	24	12.0
EW148	48	1	24	32	12.0
FE201	30	B	18	15	7.5
FE212	30	B	18	15	7.5
EW220	24	A	12	8	6.0
EW300	36	1	24	24	9.0
EW400	48	1	24	32	12.0
EW500	30	1	24	20	7.5
EW601	30 (3 PIPES)	B	18	15	22.5
EW602	30 (2 PIPES)	B	18	15	14.0
EW603	48	B	18	24	12.0
EW604	48	B	18	24	12.0
EW605	42	B	18	21	10.5
FE651	24	B	18	12	6.0



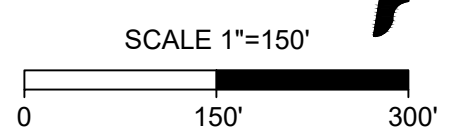
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DATE: 09/17/2021
 DRAWN BY: A. BROWN
 DESIGNED BY: P. BARBEAU
 CHECKED BY: P. BARBEAU
 SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
EROSION CONTROL STAGE 1 SPEC TABLES

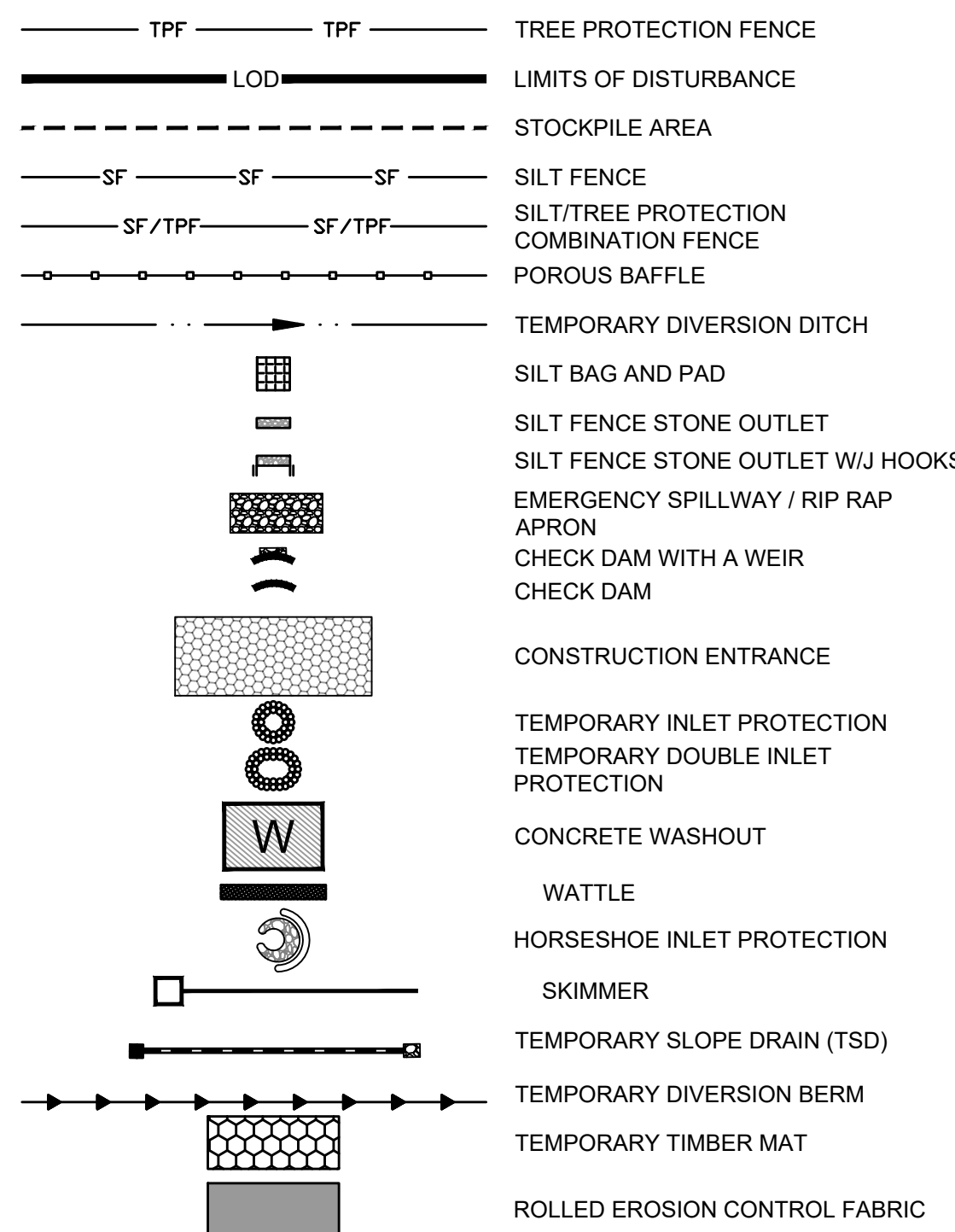
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ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

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EROSION CONTROL LEGEND



MAINTENANCE PLAN:

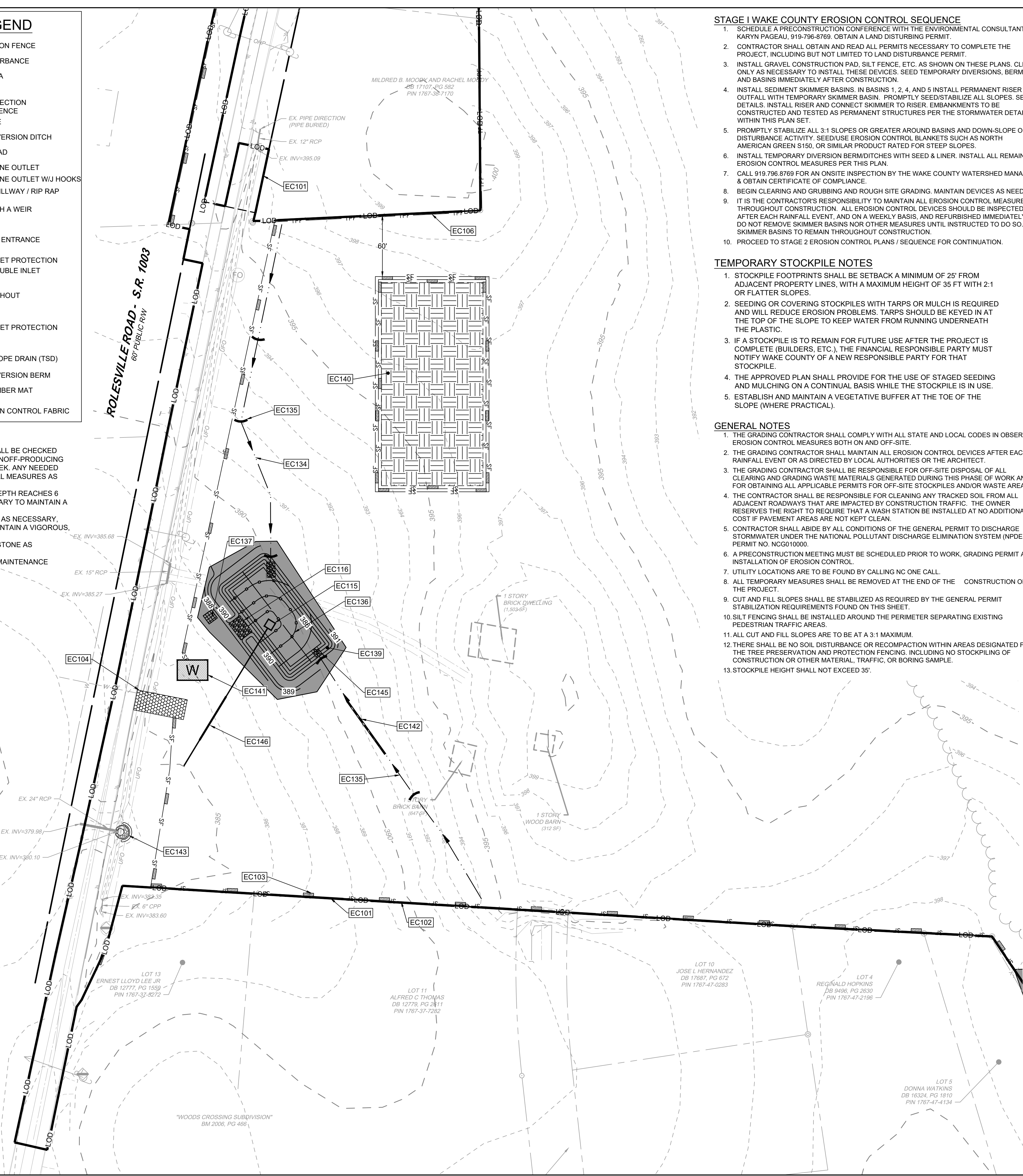
1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
2. REMOVE SEDIMENT FROM BEHIND SILT FENCE WHEN DEPTH REACHES 6 INCHES AT THE FENCE. REPAIR SILT FENCE AS NECESSARY TO MAINTAIN A BARRIER.
3. ALL SEEDED AREAS SHALL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED ACCORDING TO PROJECT SPECS TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE GROWTH.
4. TOP DRESS CONSTRUCTION ENTRANCES WITH CLEAN STONE AS NECESSARY TO MAINTAIN PROPER FUNCTIONING.
5. REFER TO SPECIFIC DEVICE DETAILS FOR ADDITIONAL MAINTENANCE REQUIREMENTS.

ATTENTION CONTRACTORS

The **Construction Contractor** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for **contacting the Public Utilities Department** at (919) 996-4540 at least **twenty four hours** prior to beginning any of their construction.

Failure to notify both **City Departments** in advance of beginning construction, will result in the issuance of **monetary fines**, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for **Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite**, or any other **Violation of City of Raleigh Standards** will result in a **Fine and Possible Exclusion** from future work in the **City of Raleigh**.



STAGE I WAKE COUNTY EROSION CONTROL SEQUENCE

1. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT KARYN PAGEAU, 919-796-8769, OBTAIN A LAND DISTURBANCE PERMIT.
2. CONTRACTOR SHALL OBTAIN AND READ ALL PERMITS NECESSARY TO COMPLETE THE PROJECT, INCLUDING BUT NOT LIMITED TO LAND DISTURBANCE PERMIT.
3. INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE, ETC. AS SHOWN ON THESE PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
4. INSTALL SEDIMENT SKIMMER BASINS. IN BASINS 1, 2, 4, AND 5 INSTALL PERMANENT RISER AND OUTFALL WITH TEMPORARY SKIMMER BASIN. PROMPTLY SEED/STABILIZE ALL SLOPES. SEE DETAILS. INSTALL RISER AND CONNECT SKIMMER TO RISER. EMBANKMENTS TO BE CONSTRUCTED AND TESTED AS PERMANENT STRUCTURES PER THE STORMWATER DETAILS WITHIN THIS PLAN SET.
5. PROMPTLY STABILIZE ALL 3:1 SLOPES OR GREATER AROUND BASINS AND DOWN-SLOPE OF DISTURBANCE ACTIVITY. SEED/USE EROSION CONTROL BLANKETS SUCH AS NORTH AMERICAN GREEN S150, OR SIMILAR PRODUCT RATED FOR STEEP SLOPES.
6. INSTALL TEMPORARY DIVERSION BERM/DITCHES WITH SEED & LINER. INSTALL ALL REMAINING EROSION CONTROL MEASURES PER THIS PLAN.
7. CALL 919.796.8769 FOR AN ON-SITE INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER & OBTAIN CERTIFICATE OF COMPLIANCE.
8. BEGIN CLEARING AND GRUBBING AND ROUGH SITE GRADING. MAINTAIN DEVICES AS NEEDED.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION. ALL EROSION CONTROL DEVICES SHOULD BE INSPECTED AFTER EACH RAINFALL EVENT, AND ON A WEEKLY BASIS, AND REFINISHED IMMEDIATELY. DO NOT REMOVE SKIMMER BASINS NOR OTHER MEASURES UNTIL INSTRUCTED TO DO SO. SKIMMER BASINS TO REMAIN THROUGHOUT CONSTRUCTION.
10. PROCEED TO STAGE 2 EROSION CONTROL PLANS / SEQUENCE FOR CONTINUATION.

TEMPORARY STOCKPILE NOTES

1. STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES, WITH A MAXIMUM HEIGHT OF 35 FT WITH 2:1 OR FLATTER SLOPES.
2. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYPED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
3. 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.
4. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
5. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

GENERAL NOTES

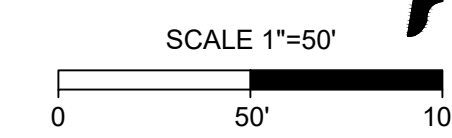
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2. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR THE ARCHITECT.
3. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING THIS PHASE OF WORK AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY TRACKED SOIL FROM ALL ADJACENT ROADWAYS THAT ARE IMPACTED BY CONSTRUCTION TRAFFIC. THE OWNER RESERVES THE RIGHT TO REQUIRE THAT A WASH STATION BE INSTALLED AT NO ADDITIONAL COST IF PAVEMENT AREAS ARE NOT KEPT CLEAN.
5. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NO. NC0010090.
6. A PRECONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO WORK, GRADING PERMIT AND INSTALLATION OF EROSION CONTROL.
7. UTILITY LOCATIONS ARE TO BE FOUND BY CALLING NC ONE CALL.
8. ALL TEMPORARY MEASURES SHALL BE REMOVED AT THE END OF THE CONSTRUCTION OF THE PROJECT.
9. CUT AND FILL SLOPES SHALL BE STABILIZED AS REQUIRED BY THE GENERAL PERMIT STABILIZATION REQUIREMENTS FOUND ON THIS SHEET.
10. SILT FENCING SHALL BE INSTALLED AROUND THE PERIMETER SEPARATING EXISTING PEDESTRIAN TRAFFIC AREAS.
11. ALL CUT AND FILL SLOPES ARE TO BE AT A 3:1 MAXIMUM.
12. THERE SHALL BE NO SOIL DISTURBANCE OR RECOMPACTION WITHIN AREAS DESIGNATED FOR THE TREE PRESERVATION AND PROTECTION FENCING, INCLUDING NO STOCKPILING OF CONSTRUCTION OR OTHER MATERIAL, TRAFFIC, OR BORING SAMPLE.
13. STOCKPILE HEIGHT SHALL NOT EXCEED 35'.

EROSION CONTROL PLAN-STAGE 1 KEYNOTES

NUMBER	DESCRIPTION
EC101	LIMITS OF DISTURBANCE
EC102	SILT FENCE; REFER TO DETAIL (TYP.)
EC103	SILT FENCE OUTLET; REFER TO DETAIL (TYP.)
EC104	TEMPORARY 25' x 100' CONSTRUCTION ENTRANCE; REFER TO DETAIL
EC105	SILT-TREE COMBINATION FENCE. REFER TO DETAIL (TYP.)
EC106	TREE FENCE. REFER TO DETAIL (TYP.)
EC107	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #1 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.0 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC108	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #2 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.1 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC109	TEMPORARY SKIMMER BASIN #3 (REFER TO BASIN SUMMARY ON SHEET C4.1)
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EC111	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #5 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.4 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC112	TEMPORARY SKIMMER BASIN #6 (REFER TO BASIN SUMMARY ON SHEET C4.1)
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EC115	TEMPORARY SKIMMER BASIN #9 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC116	SPILLWAY-REFER TO BASIN SUMMARY ON SHEET C4.1 (TYP.)
EC117	TEMP. DIVERSION DITCH #1A (REFER TO C4.1)
EC118	TEMP. DIVERSION DITCH #1B (REFER TO C4.1)
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EC146	TEMPORARY PIPE FOR OUTFALL CROSSING
EC147	ROCK CHECK DAM WITH WEIR (REFER TO STREAM CROSSING PLAN)
EC148	SILT FENCE OUTLET WITH J HOOKS (TYP. AT STREAM CROSSINGS)

Required Wake County Basin Removal Sequence

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.



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



THIS DRAWING PREPARED AT THE
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YOUR VISION ACHIEVED THROUGH OURS.

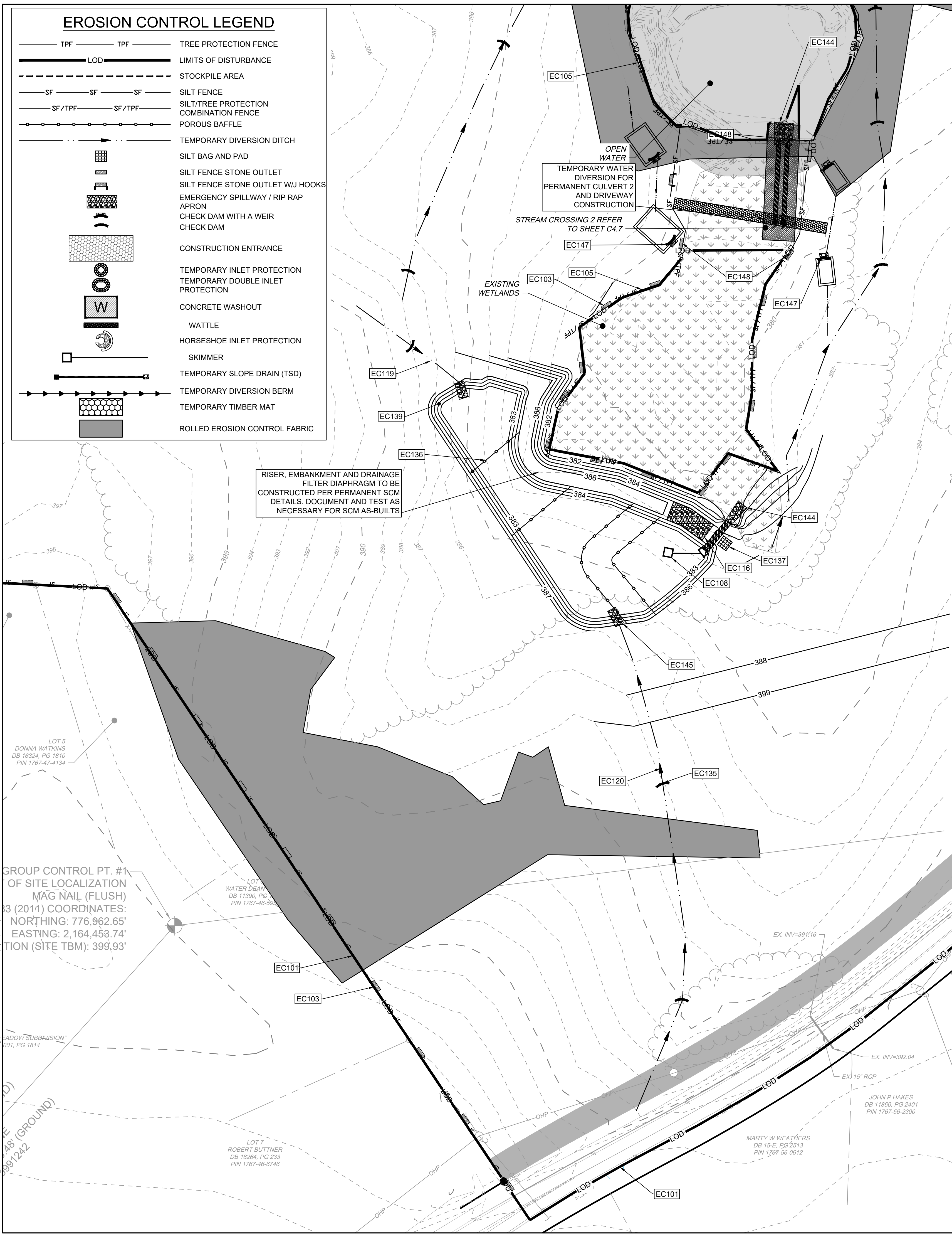
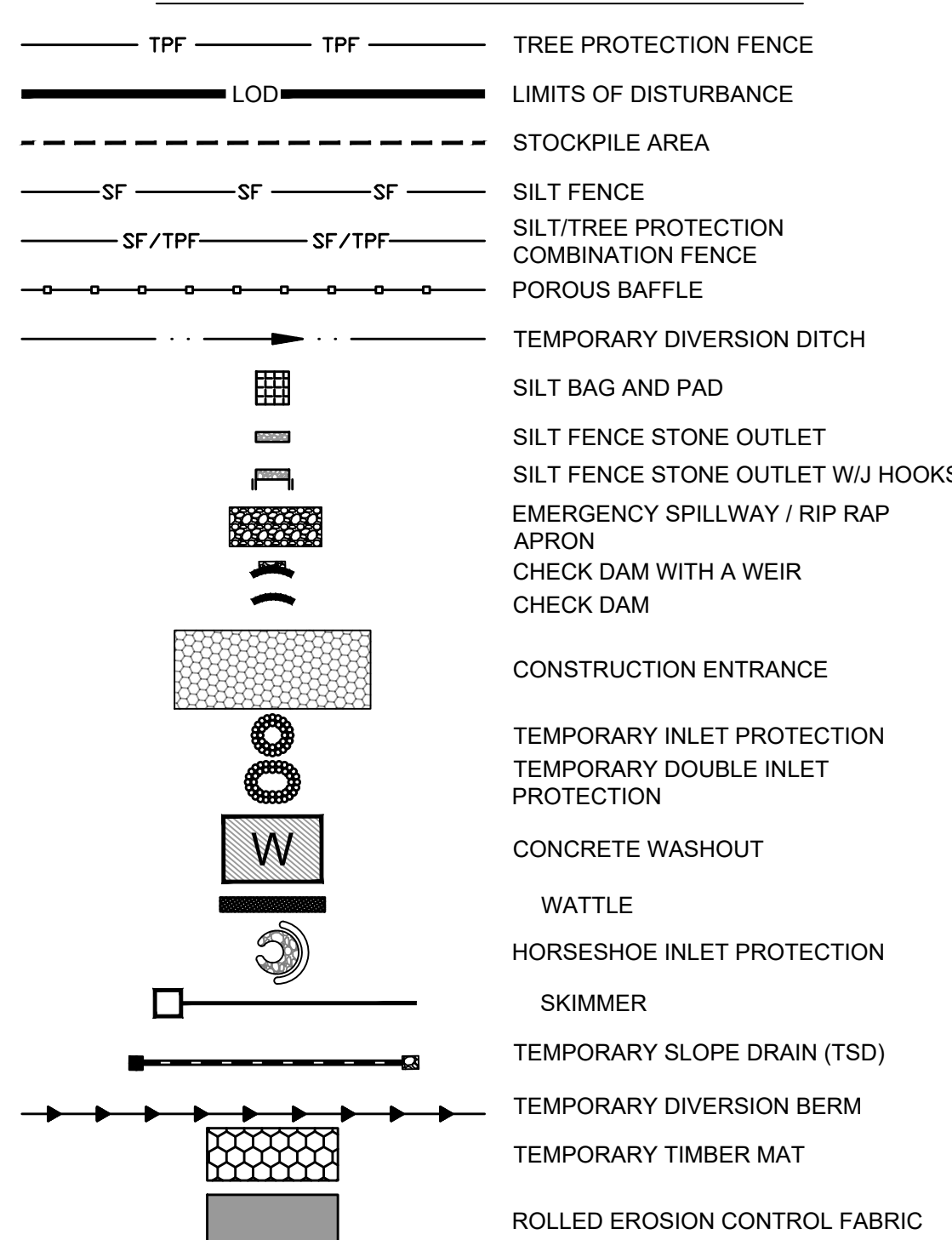
DATE: 09/17/2021
 DRAWN BY: A. BROWN
 DESIGNED BY: P. BARBEAU
 CHECKED BY: P. BARBEAU
 SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
SEDIMENT BASIN GRADING DETAIL

JOB NO. 43398
 SHEET NO. C4.2

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EROSION CONTROL LEGEND



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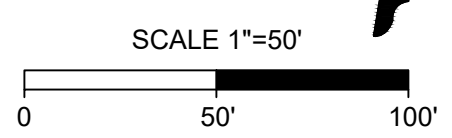
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YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
06/24/2022	REVISED PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISED PER NCDOT COMMENTS
09/06/2023	REVISED PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISED TO APPROVED PLANS

DATE: 09/17/2021

DRAWN BY: A. BROWN

DESIGNED BY: P. BARBEAU

CHECKED BY: P. BARBEAU

SCALE: AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

SEDIMENT BASIN GRADING DETAIL

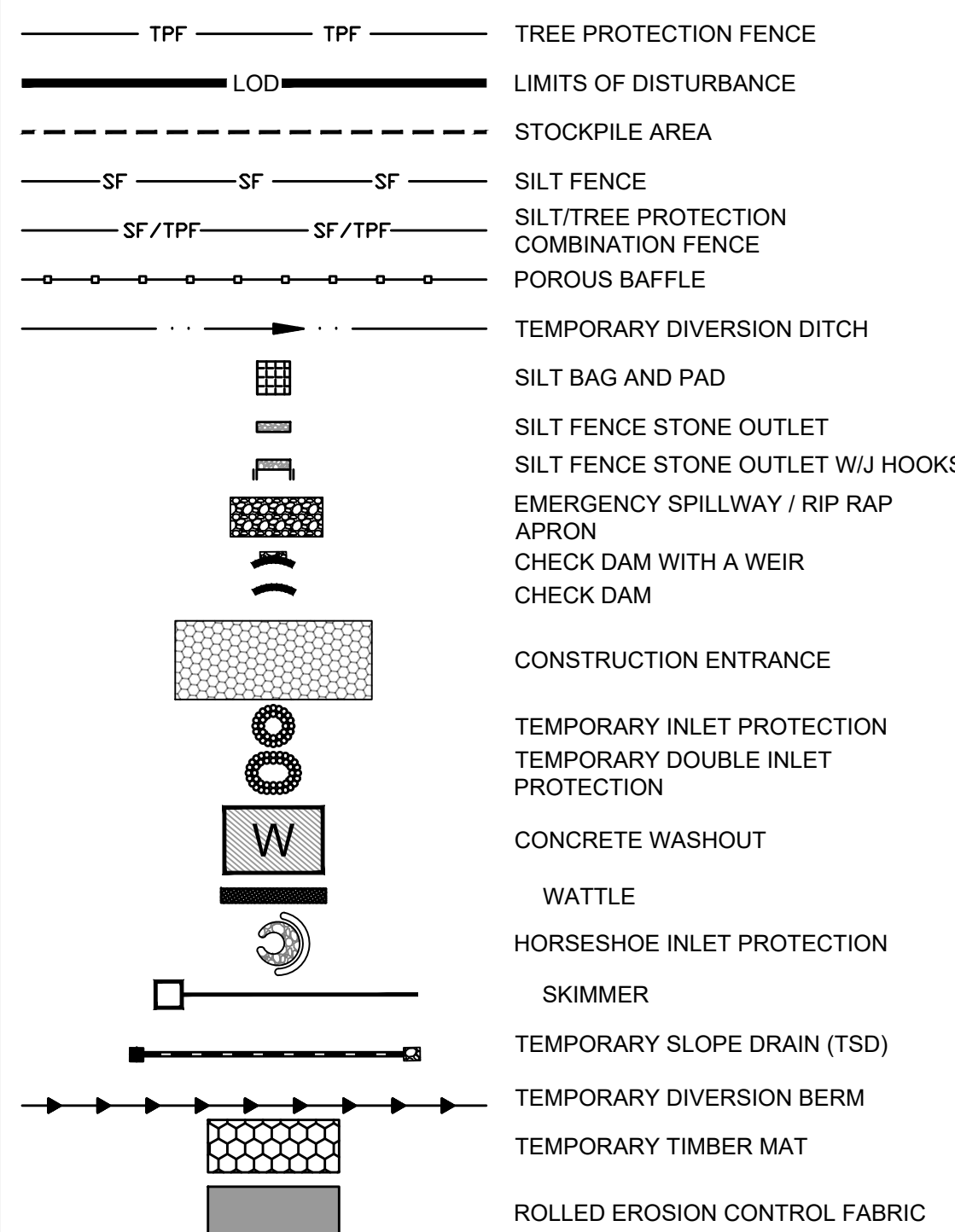
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JOB NO. 43398

SHEET NO. C4.3

S:\32424398-Wheeler_TimedWG-SheetC4.3-EROS1.dwg | Plotted on 12/22/2023, 1:25 PM by April Bye
 LOT 5 DONNA WATKINS DB 16324, PG 1610 PIN 1767-47-4134
 LOT 6 WATER DISCH DB 11390, PG 1610 PIN 1767-46-2825
 LOT 7 ROBERT BUTTNER DB 18264, PG 233 PIN 1767-46-6746
 JAMES GARY PITTMAN DB 12631, PG 366 PIN 1767-56-6385
 JOHN P HAKES DB 11860, PG 2401 PIN 1767-56-2300
 MARTY W WEATERS DB 15-E, PG 2513 PIN 1767-56-0612
 CE GROUP CONTROL POINT OF SITE LOCALIZATION 60D MAG HUB (F1 N8 GRID NAD 83) COORDINATE: NORTHING: 777.0 EASTING: 2,165.3 ELEVATION: 3
 GROUP CONTROL PT. #1 OF SITE LOCALIZATION MAG NAIL (FLUSH) 3 (2011) COORDINATES: NORTHING: 776,962.65' EASTING: 2,164,453.74' TION (SITE TBM): 399,93'
 "ADJACENT SUBDIVISION" 001, PG 1814
 399/1242 (GROUND)

EROSION CONTROL LEGEND



THIS DRAWING PREPARED AT THE
RALEIGH OFFICE
 5410 Trinity Road, Suite 102, Raleigh, NC 27607
 TEL 919.866.9511 FAX 919.933.8124 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE: 09/17/2021
 DRAWN BY: A. BROWN
 DESIGNED BY: P. BARBEAU
 CHECKED BY: P. BARBEAU
 SCALE: AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
SEDIMENT BASIN GRADING DETAIL

JOB NO. 43398
 SHEET NO. C4.4

EROSION CONTROL PLAN-STAGE 1 KEYNOTES	
NUMBER	DESCRIPTION
EC101	LIMITS OF DISTURBANCE
EC102	SILT FENCE; REFER TO DETAIL (TYP.)
EC103	SILT FENCE OUTLET; REFER TO DETAIL (TYP.)
EC104	TEMPORARY 25' x 100' CONSTRUCTION ENTRANCE; REFER TO DETAIL
EC105	SILT-TREE COMBINATION FENCE; REFER TO DETAIL (TYP.)
EC106	TREE FENCE; REFER TO DETAIL (TYP.)
EC107	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #1 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.0 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC108	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #2 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.1 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC109	TEMPORARY SKIMMER BASIN #3 (REFER TO BASIN SUMMARY ON SHEET C4.1)
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EC111	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #5 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.4 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC112	TEMPORARY SKIMMER BASIN #6 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC113	TEMPORARY SKIMMER BASIN #7 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC114	TEMPORARY SKIMMER BASIN #8 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC115	TEMPORARY SKIMMER BASIN #9 (REFER TO BASIN SUMMARY ON SHEET C4.1)
EC116	SPILLWAY-REFER TO BASIN SUMMARY ON SHEET C4.1 (TYP.)
EC117	TEMP. DIVERSION DITCH #1A (REFER TO C4.1)
EC118	TEMP. DIVERSION DITCH #1B (REFER TO C4.1)
EC119	TEMP. DIVERSION DITCH #2A (REFER TO C4.1)
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EC142	TEMPORARY CLASS III 18" RCP PIPE FOR DITCH CROSSING
EC143	TEMPORARY HORSESHOE INLET PROTECTION
EC144	PIPE OUTFALL PROTECTION (REFER TO C4.1 AND STORM PLAN FOR DETAILS)
EC145	DIVERSION DITCH OUTLET PROTECTION (REFER TO C4.1 AND STORM PLAN FOR DETAILS)
EC146	TEMPORARY PIPE FOR OUTFALL CROSSING
EC147	ROCK CHECK DAM WITH WEIR (REFER TO STREAM CROSSING PLAN)
EC148	SILT FENCE OUTLET WITH J HOOKS (TYP. AT STREAM CROSSINGS)

- STAGE I WAKE COUNTY EROSION CONTROL SEQUENCE**
- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT KARYN PAGEAU, 919-796-8769. OBTAIN A LAND DISTURBING PERMIT.
 - CONTRACTOR SHALL OBTAIN AND READ ALL PERMITS NECESSARY TO COMPLETE THE PROJECT, INCLUDING BUT NOT LIMITED TO LAND DISTURBANCE PERMIT.
 - INSTALL GRAVEL CONSTRUCTION PAD, SILT FENCE, ETC. AS SHOWN ON THESE PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
 - INSTALL SEDIMENT SKIMMER BASINS. IN BASINS 1, 2, 4, AND 5 INSTALL PERMANENT RISER AND OUTFALL WITH TEMPORARY SKIMMER BASIN. PROMPTLY SEED/STABILIZE ALL SLOPES. SEE DETAILS. INSTALL RISER AND CONNECT SKIMMER TO RISER. EMBANKMENTS TO BE CONSTRUCTED AND TESTED AS PERMANENT STRUCTURES PER THE STORMWATER DETAILS WITHIN THIS PLAN SET.
 - PROMPTLY STABILIZE ALL 3:1 SLOPES OR GREATER AROUND BASINS AND DOWN-SLOPE OF DISTURBANCE ACTIVITY. SEED/USE EROSION CONTROL BLANKETS SUCH AS NORTH AMERICAN GREEN S150, OR SIMILAR PRODUCT RATED FOR STEEP SLOPES.
 - INSTALL TEMPORARY DIVERSION BERMS/DITCHES WITH SEED & LINER. INSTALL ALL REMAINING EROSION CONTROL MEASURES PER THIS PLAN.
 - CALL 919.796.8769 FOR AN ONSITE INSPECTION BY THE WAKE COUNTY WATERSHED MANAGER & OBTAIN CERTIFICATE OF COMPLIANCE.
 - BEGIN CLEARING AND GRUBBING AND ROUGH SITE GRADING. MAINTAIN DEVICES AS NEEDED.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION. ALL EROSION CONTROL DEVICES SHOULD BE INSPECTED AFTER EACH RAINFALL EVENT, AND ON A WEEKLY BASIS, AND REPAIR/REPLISHED IMMEDIATELY. DO NOT REMOVE SKIMMER BASINS NOR OTHER MEASURES UNTIL INSTRUCTED TO DO SO. SKIMMER BASINS TO REMAIN THROUGHOUT CONSTRUCTION.
 - PROCEED TO STAGE 2 EROSION CONTROL PLANS / SEQUENCE FOR CONTINUATION.

- TEMPORARY STOCKPILE NOTES**
- STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES, WITH A MAXIMUM HEIGHT OF 35 FT WITH 2:1 OR FLATTER SLOPES.
 - SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEPT IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
 - 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.
 - THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
 - ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

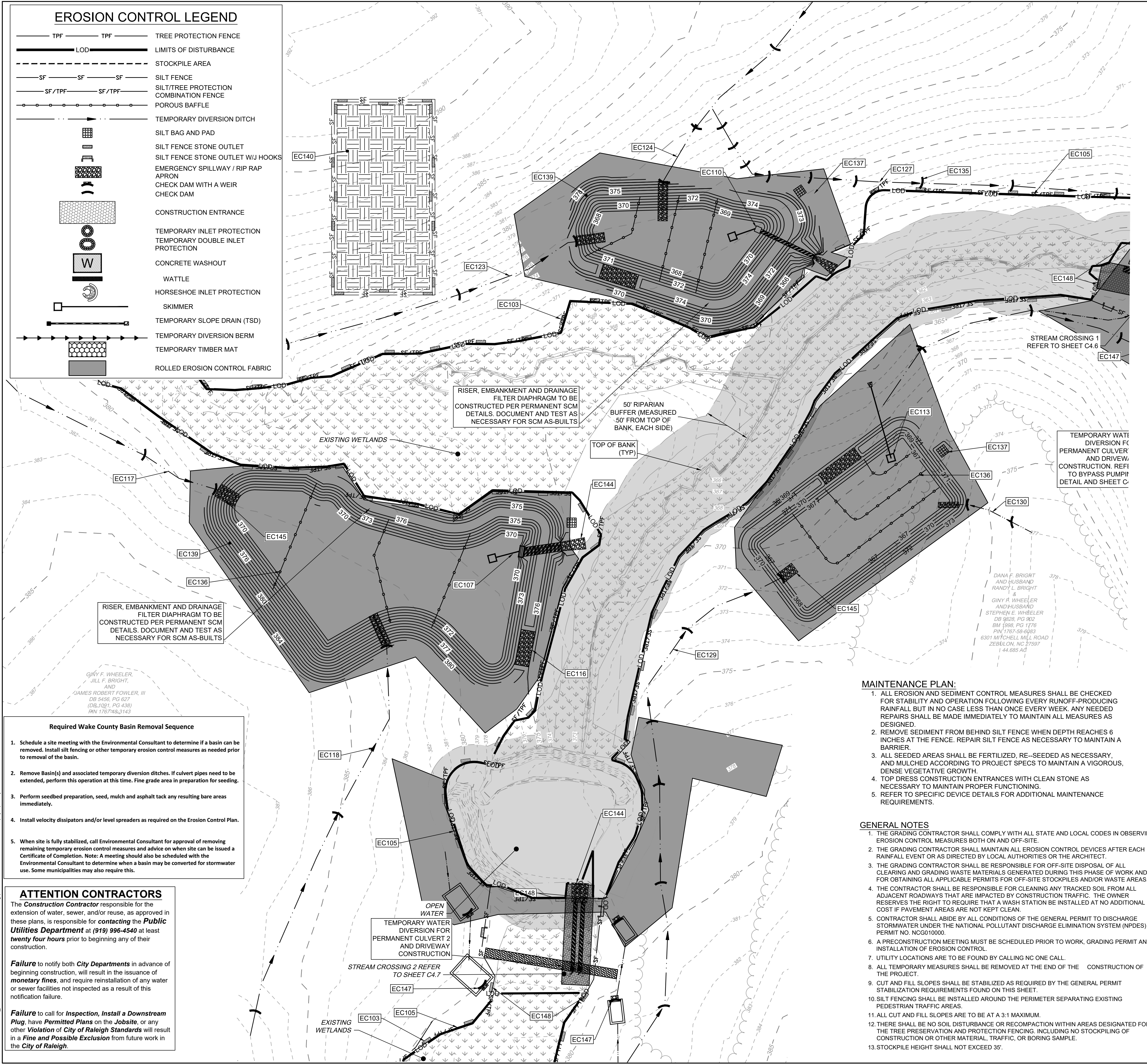
SCALE 1"=50'
 0 50' 100'
 ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

- MAINTENANCE PLAN:**
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED 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.
 - REMOVE SEDIMENT FROM BEHIND SILT FENCE WHEN DEPTH REACHES 6 INCHES AT THE FENCE. REPAIR SILT FENCE AS NECESSARY TO MAINTAIN A BARRIER.
 - ALL SEEDING AREAS SHALL BE FERTILIZED, RE-SEEDING AS NECESSARY, AND MULCHED ACCORDING TO PROJECT SPECS TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE GROWTH.
 - TOP DRESS CONSTRUCTION ENTRANCES WITH CLEAN STONE AS NECESSARY TO MAINTAIN PROPER FUNCTIONING.
 - REFER TO SPECIFIC DEVICE DETAILS FOR ADDITIONAL MAINTENANCE REQUIREMENTS.

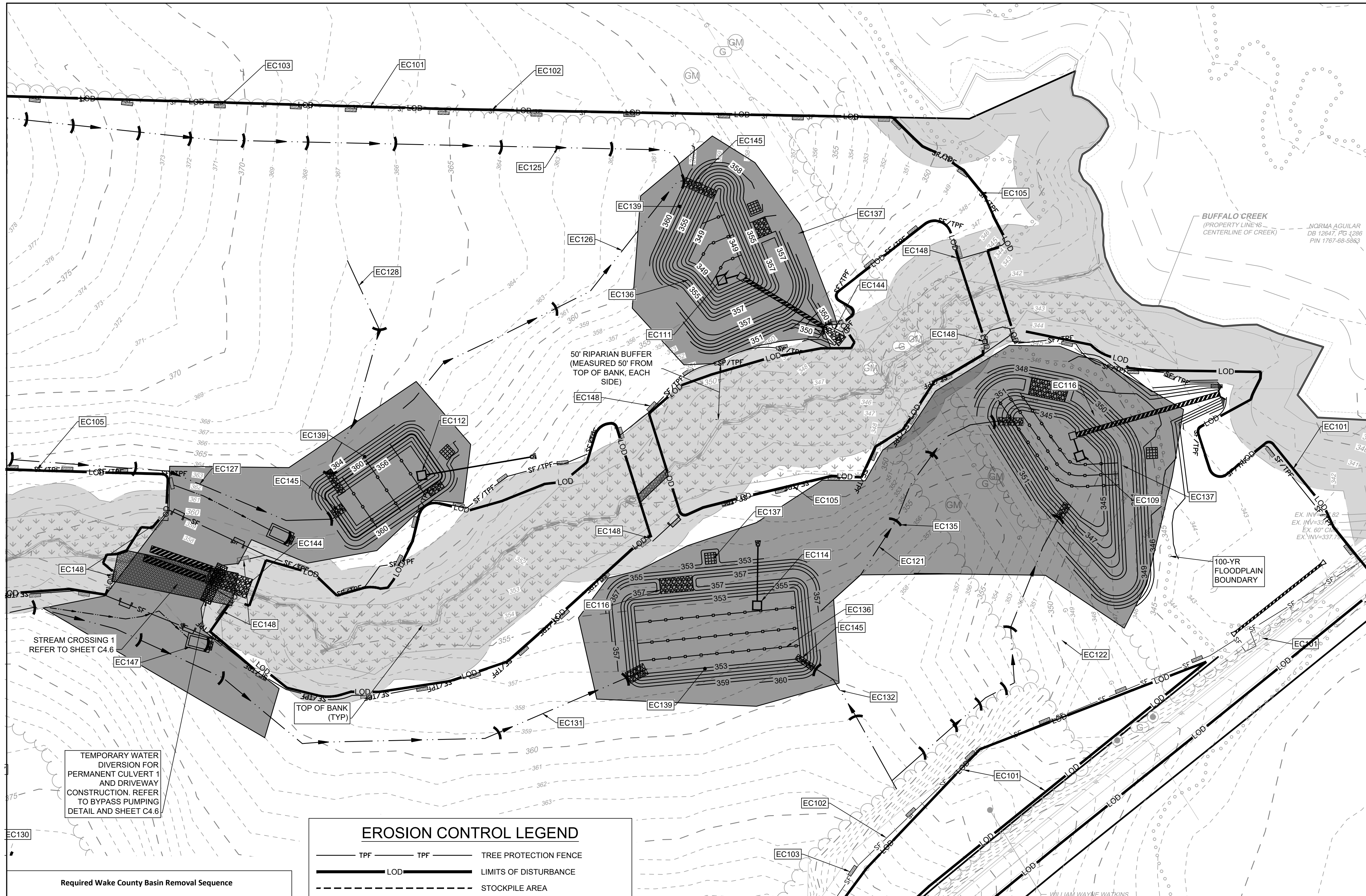
- GENERAL NOTES**
- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
 - THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR THE ARCHITECT.
 - THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING THIS PHASE OF WORK AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY TRACKED SOIL FROM ALL ADJACENT ROADWAYS THAT ARE IMPACTED BY CONSTRUCTION TRAFFIC. THE OWNER RESERVES THE RIGHT TO REQUIRE THAT A WASH STATION BE INSTALLED AT NO ADDITIONAL COST IF PAVEMENT AREAS ARE NOT KEPT CLEAN.
 - CONTRACTOR SHALL ABIDE BY ALL CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NO. NCG010000.
 - A PRECONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO WORK, GRADING PERMIT AND INSTALLATION OF EROSION CONTROL.
 - UTILITY LOCATIONS ARE TO BE FOUND BY CALLING NC ONE CALL.
 - ALL TEMPORARY MEASURES SHALL BE REMOVED AT THE END OF THE CONSTRUCTION OF THE PROJECT.
 - CUT AND FILL SLOPES SHALL BE STABILIZED AS REQUIRED BY THE GENERAL PERMIT STABILIZATION REQUIREMENTS FOUND ON THIS SHEET.
 - SILT FENCING SHALL BE INSTALLED AROUND THE PERIMETER SEPARATING EXISTING PEDESTRIAN TRAFFIC AREAS.
 - ALL CUT AND FILL SLOPES ARE TO BE AT A 3:1 MAXIMUM.
 - THERE SHALL BE NO SOIL DISTURBANCE OR RECOMPACTION WITHIN AREAS DESIGNATED FOR THE TREE PRESERVATION AND PROTECTION FENCING, INCLUDING NO STOCKPILING OF CONSTRUCTION OR OTHER MATERIAL, TRAFFIC, OR BORING SAMPLE.
 - STOCKPILE HEIGHT SHALL NOT EXCEED 35'.

- Required Wake County Basin Removal Sequence**
- 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.
 - 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.
 - Perform seedbed preparation, seed, mulch and asphalt tack any resulting bare areas immediately.
 - Install velocity dissipators and/or level spreaders as required on the Erosion Control Plan.
 - 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.

ATTENTION CONTRACTORS
 The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.
 Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.
 Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.



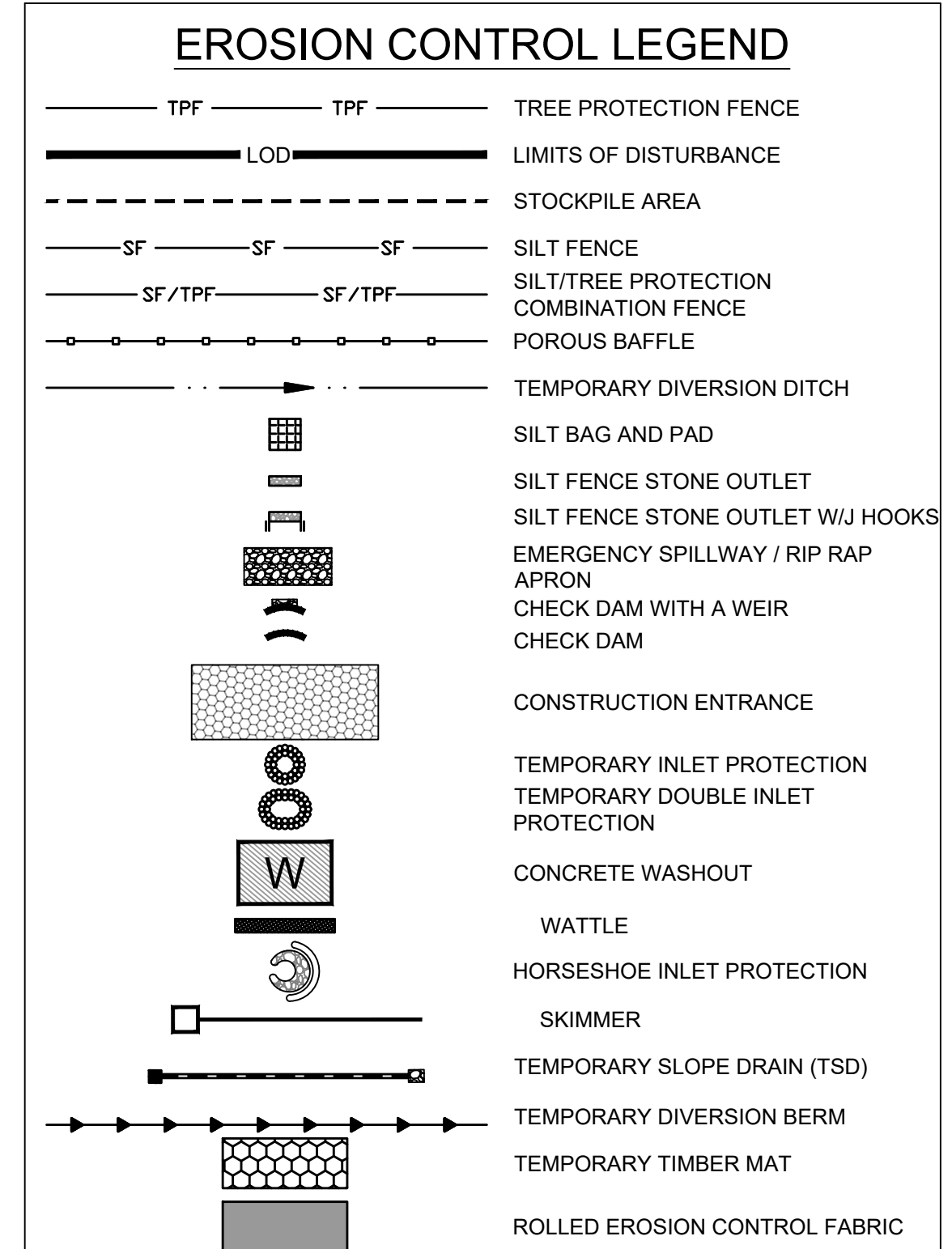
S:\3324\3398\Wheeler_Timed\DWG\SheetCD4388C-C4.4-EROSI.dwg | Printed on 12/22/2023, 1:25 PM | By April Blye



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NUMBER	DESCRIPTION
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 - PROCEED TO STAGE 2 EROSION CONTROL PLANS / SEQUENCE FOR CONTINUATION.

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THIS DRAWING PREPARED AT THE
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 5410 Trinity Road, Suite 102 | Raleigh, NC 27607
 TEL 919.866.9511 FAX 919.933.8124 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
06/24/2022	REVISIONS PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

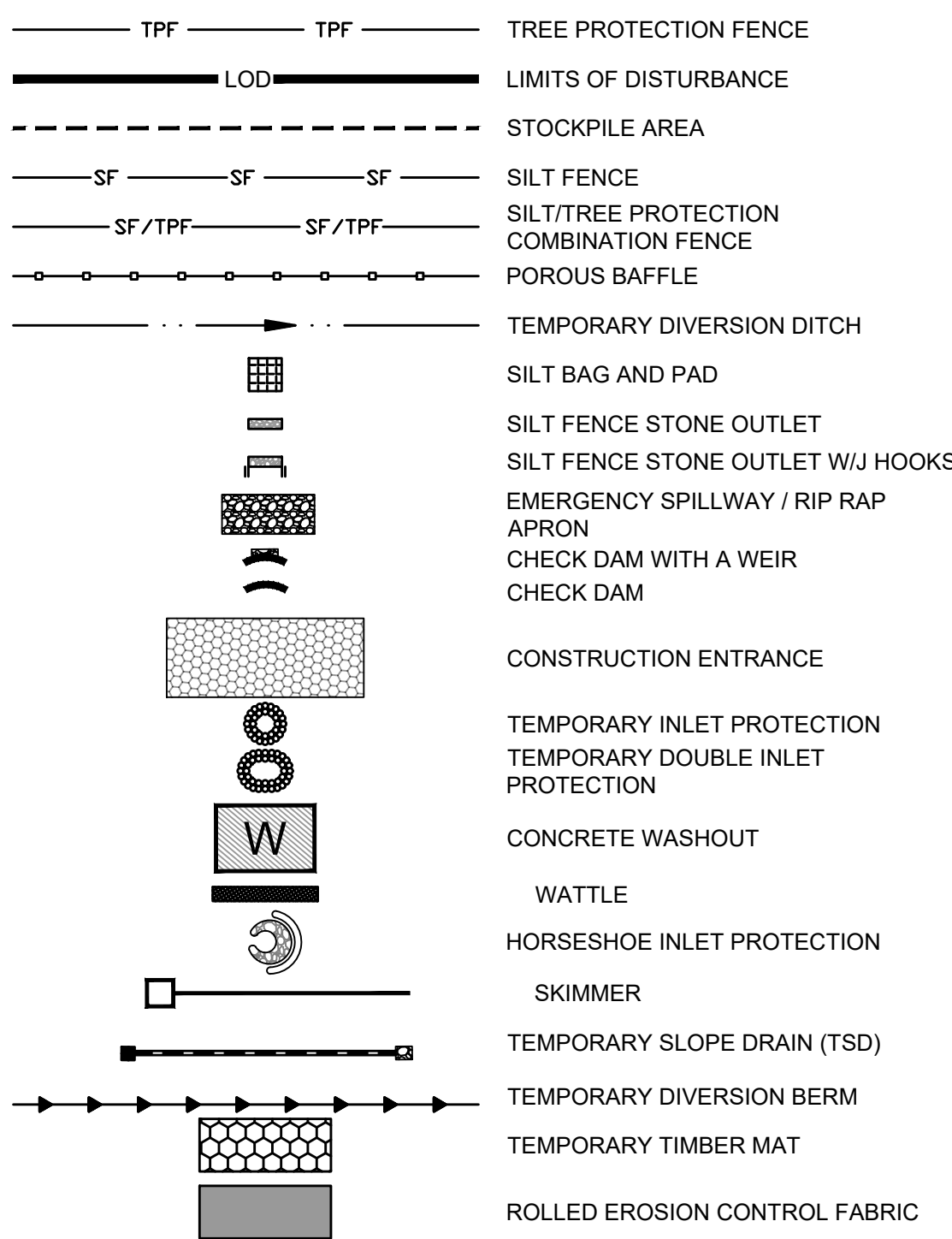
09/17/2021
 DRAWN BY
A. BROWN
 DESIGNED BY
P. BARBEAU
 CHECKED BY
P. BARBEAU
 SCALE
AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652
ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
SEDIMENT BASIN GRADING DETAIL

JOB NO.
43398
 SHEET NO.
C4.5

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

EROSION CONTROL LEGEND



STAGE I STREAM CROSSING 1 EROSION CONTROL SEQUENCE

- ONCE PROPER 401/404 BUFFER AUTHORIZATIONS AND ALL OTHER NECESSARY PERMITS ARE OBTAINED BEGIN STREAM CROSSING PROCESS.
- OPERATION AND CONSTRUCTION FOR STREAM CROSSINGS SHOULD BE PERFORMED IN A DRY WEATHER PATTERN OF AT LEAST 3-5 DAYS AND SHOULD NOT BEGIN UNTIL ALL NECESSARY CONSTRUCTION MATERIALS ARE LOCATED ON THE SITE.
- SILT FENCE MUST BE INSTALLED ALONG STREAM BANKS AT THE END OF THE WORK DAY TO MINIMIZE IMPACTS.
- INSTALL CHECK DAM WITH WEIR AT EXISTING GRADES.
- INSTALL THE IMPERVIOUS DIKES (SAND BAGS, SHEET PILING, OR NO. 57 STONE WITH POLYPROPYLENE FOR WIDTH AND DEPTH OF CHANNEL. SET UP AND BEGIN BYPASS PUMPING OF EXISTING FLOW PER THE DETAIL.
- IF A TEMPORARY CROSSING IS REQUIRED, UTILIZE TIMBER MAT.
- STONE APPROACHES WILL BE REQUIRED ON BOTH SIDES AND THE BOARDS WILL HAVE NO GAPS. GEOTEXTILE SHALL BE UNDERLAIN OR OVERLAIN AND SIDE BOARDS WILL BE INSTALLED ALONG THE PERIMETER OF THE MAT.
- INSTALL CULVERT PIPES AND HEADWALLS PER THE STORMWATER AND GRADING SHEETS AND SPECIFICATIONS WITHIN THIS PLAN SET. INFORM THE ENGINEER IF FIELD CONDITIONS DIFFER FROM THE PLANS TO AN EXTENT REQUIRING ANY MODIFICATIONS.
- BRING PERMANENT CROSSING TO GRADE AND PROMPTLY STABILIZE ALL 3:1 SLOPES OR GREATER. DOWN-SLOPE OF DISTURBANCE ACTIVITY. SEED/USE EROSION CONTROL BLANKETS SUCH AS NORTH AMERICAN GREEN S150, OR SIMILAR PRODUCT RATED FOR STEEP SLOPES.
- ADJUST TEMPORARY DIVERSION DITCHES IN PROXIMITY AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE TO SEDIMENT BASINS.
- PROCEED TO STREAM CROSSING 2 OR OTHER SITE IMPROVEMENTS PER THE PLANS.

Check Dam with a Weir: # 1			
C	0.3		
I	7.2 in/hr		
A	0.037 AC		
Q10	0.08 CFS	Q=C*I*A	
Storage Required	133.2 CF	Volume = A*3600	
Weir Length	0.09 FT	(Q cfs / 0.88)	

Check Dam with a Weir: # 2			
C	0.3		
I	7.2 in/hr		
A	0.060 AC		
Q10	0.13 CFS	Q=C*I*A	
Storage Required	216 CF	Volume = A*3600	
Weir Length	0.15 FT	(Q cfs / 0.88)	

NOTE:

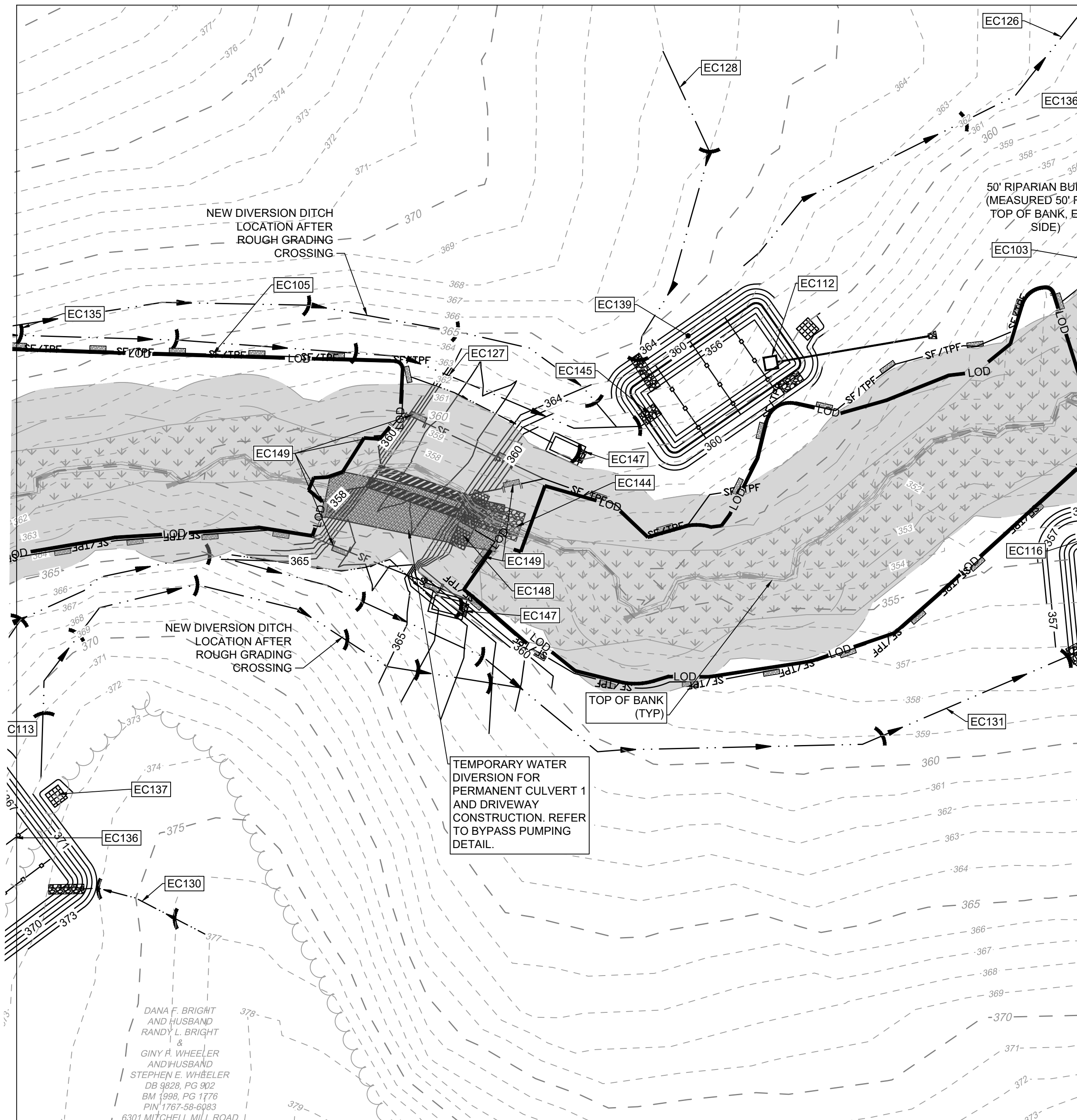
- CHECK DAMS WITH A WEIR TO SERVE AS SEDIMENT STORAGE FOR STREAM CROSSINGS AS NEEDED. CHECK AND REMOVE SEDIMENT AS REQUIRED.

GENERAL NOTES

- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
- THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR THE ARCHITECT.
- THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING THIS PHASE OF WORK AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY TRACKED SOIL FROM ALL ADJACENT ROADWAYS THAT ARE IMPACTED BY CONSTRUCTION TRAFFIC. THE OWNER RESERVES THE RIGHT TO REQUIRE THAT A WASH STATION BE INSTALLED AT NO ADDITIONAL COST IF PAVEMENT AREAS ARE NOT KEPT CLEAN.
- CONTRACTOR SHALL ABIDE BY ALL CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NO. NCG010000.
- A PRECONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO WORK. GRADING PERMIT AND INSTALLATION OF EROSION CONTROL.
- UTILITY LOCATIONS ARE TO BE FOUND BY CALLING NC ONE CALL.
- ALL TEMPORARY MEASURES SHALL BE REMOVED AT THE END OF THE CONSTRUCTION OF THE PROJECT.
- CUT AND FILL SLOPES SHALL BE STABILIZED AS REQUIRED BY THE GENERAL PERMIT STABILIZATION REQUIREMENTS FOUND ON THIS SHEET.
- SILT FENCING SHALL BE INSTALLED AROUND THE PERIMETER SEPARATING EXISTING PEDESTRIAN TRAFFIC AREAS.
- ALL CUT AND FILL SLOPES ARE TO BE AT A 3:1 MAXIMUM.
- THERE SHALL BE NO SOIL DISTURBANCE OR RECOMPACTION WITHIN AREAS DESIGNATED FOR THE TREE PRESERVATION AND PROTECTION FENCING. INCLUDING NO STOCKPILING OF CONSTRUCTION OR OTHER MATERIAL, TRAFFIC, OR BORING SAMPLE.
- STOCKPILE HEIGHT SHALL NOT EXCEED 35'.

EROSION CONTROL PLAN-STAGE 1 KEYNOTES

NUMBER	DESCRIPTION
EC101	LIMITS OF DISTURBANCE
EC102	SILT FENCE; REFER TO DETAIL (TYP.)
EC103	SILT FENCE OUTLET; REFER TO DETAIL (TYP.)
EC104	TEMPORARY 25' x 100' CONSTRUCTION ENTRANCE; REFER TO DETAIL
EC105	SILT-TREE COMBINATION FENCE. REFER TO DETAIL (TYP.)
EC106	TREE FENCE. REFER TO DETAIL (TYP.)
EC107	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #1 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.0 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC108	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #2 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.1 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC109	TEMPORARY SKIMMER BASIN #3 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC110	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #4 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.3 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC111	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #5 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.4 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC112	TEMPORARY SKIMMER BASIN #6 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC113	TEMPORARY SKIMMER BASIN #7 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC114	TEMPORARY SKIMMER BASIN #8 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC115	TEMPORARY SKIMMER BASIN #9 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC116	SPILLWAY-REFER TO BASIN SUMMARY ON SHEET C4.01 (TYP.)
EC117	TEMP. DIVERSION DITCH #1A (REFER TO C4.01)
EC118	TEMP. DIVERSION DITCH #1B (REFER TO C4.01)
EC119	TEMP. DIVERSION DITCH #2A (REFER TO C4.01)
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EC126	TEMP. DIVERSION DITCH #5B (REFER TO C4.01)
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EC131	TEMP. DIVERSION DITCH #8A (REFER TO C4.01)
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EC133	TEMP. DIVERSION DITCH #9A (REFER TO C4.01)
EC134	TEMP. DIVERSION DITCH #9B (REFER TO C4.01)
EC135	ROCK CHECK DAM REFER TO DETAIL (TYP.)
EC136	POROUS BAFFLES (TYP.)
EC137	SILT BAG AND SILT BAG PAD
EC138	IMPERMEABLE MEMBRANE APRON
EC139	3:1 SIDE SLOPE
EC140	STOCKPILE AREA
EC141	CONCRETE WASHOUT
EC142	TEMPORARY CLASS 3 18" RCP PIPE FOR DITCH CROSSING
EC143	TEMPORARY HORSESHOE INLET PROTECTION
EC144	PIPE OUTFALL PROTECTION. (REFER TO C4.01)
EC145	DIVERSION DITCH OUTLET PROTECTION (REFER TO C4.01 AND STORM PLAN FOR DETAILS)
EC146	TEMPORARY PIPE FOR OUTFALL CROSSING
EC147	ROCK CHECK DAM WITH WEIR (REFER TO DETAIL)
EC148	TIMBER MAT
EC149	SILT FENCE OUTLET WITH J HOOKS (TYP. AT STREAM CROSSINGS)



Required Wake County Basin Removal Sequence

- 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.
- 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.
- Perform seedbed preparation, seed, mulch and asphalt tack any resulting bare areas immediately.
- Install velocity dissipators and/or level spreaders as required on the Erosion Control Plan.
- 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.

ATTENTION CONTRACTORS

The **Construction Contractor** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for **contacting the Public Utilities Department at (919) 996-4540** at least **twenty four hours** prior to beginning any of their construction.

Failure to notify both **City Departments** in advance of beginning construction, will result in the issuance of **monetary fines**, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

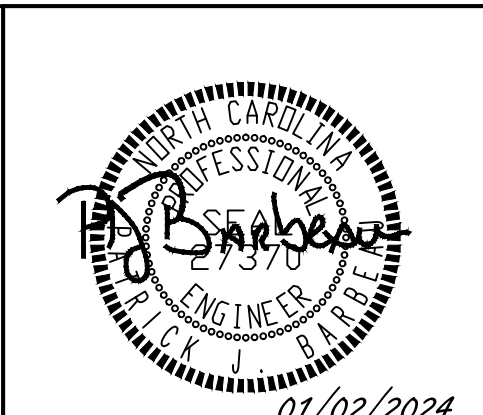
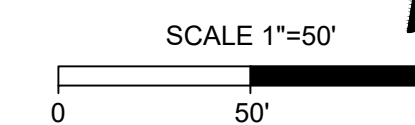
Failure to call for **Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards** will result in a **Fine and Possible Exclusion** from future work in the **City of Raleigh**.

TEMPORARY STOCKPILE NOTES

- STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES, WITH A MAXIMUM HEIGHT OF 35 FT WITH 2:1 OR FLATTER SLOPES.
- SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEPT IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
- 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.
- THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
- ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

MAINTENANCE PLAN:

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED 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.
- REMOVE SEDIMENT FROM BEHIND SILT FENCE WHEN DEPTH REACHES 6 INCHES AT THE FENCE. REPAIR SILT FENCE AS NECESSARY TO MAINTAIN A BARRIER.
- ALL SEEDED AREAS SHALL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED ACCORDING TO PROJECT SPECS TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE GROWTH.
- TOP DRESS CONSTRUCTION ENTRANCES WITH CLEAN STONE AS NECESSARY TO MAINTAIN PROPER FUNCTIONING.
- REFER TO SPECIFIC DEVICE DETAILS FOR ADDITIONAL MAINTENANCE REQUIREMENTS.



THIS DRAWING PREPARED AT THE
RALEIGH OFFICE
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 TEL 919.866.9511 FAX 919.933.8124 www.timmons.com

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DATE
09/17/2021

DRAWN BY
R. WINGATE

DESIGNED BY
P. BARBEAU

CHECKED BY
P. BARBEAU

SCALE
AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

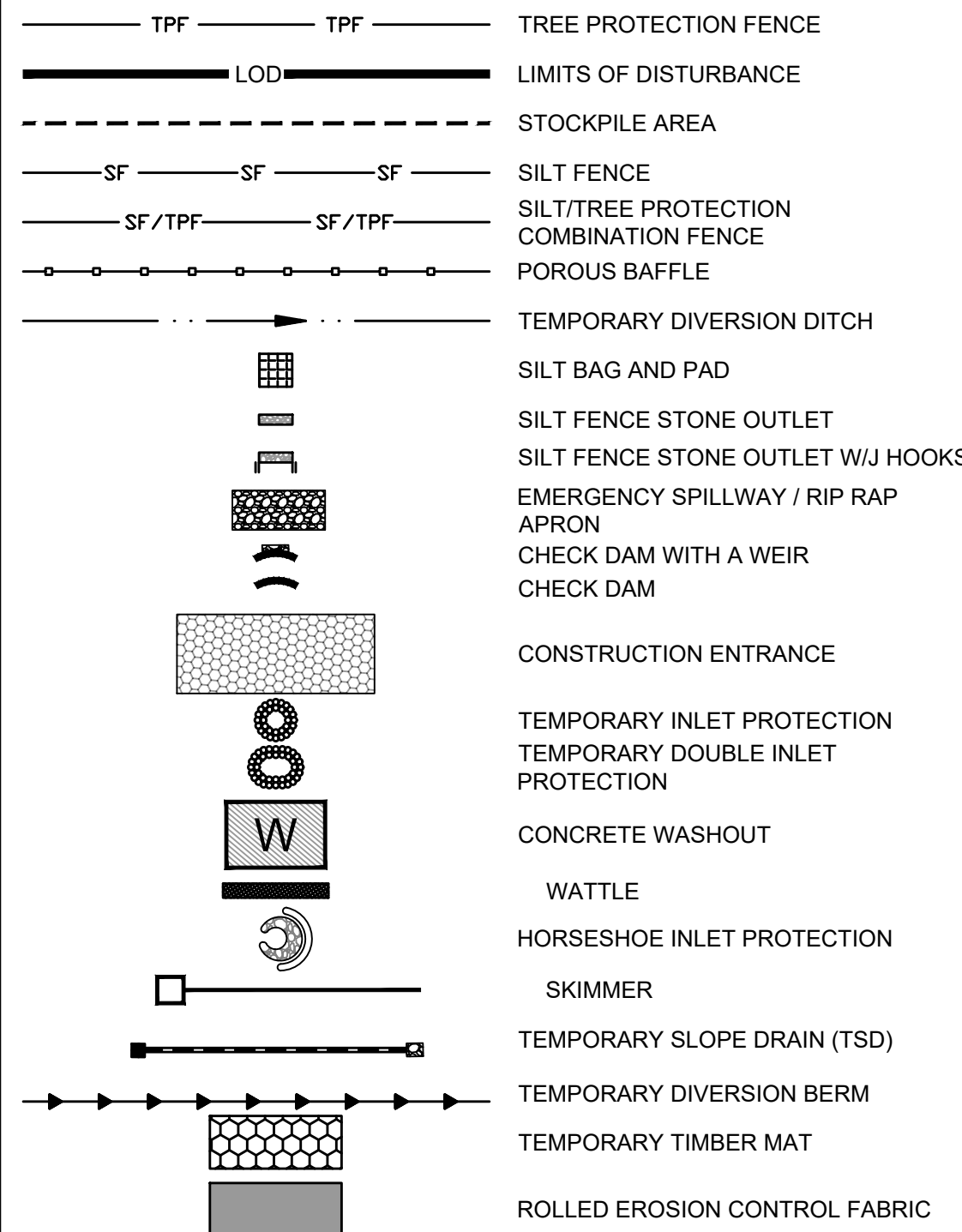
ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
STREAM CROSSING EROSION CONTROL 1

JOB NO.
43398

SHEET NO.
C4.6

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDOT AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

EROSION CONTROL LEGEND



STAGE I STREAM CROSSING 2 EROSION CONTROL SEQUENCE

- ONCE PROPER 401/404 BUFFER AUTHORIZATIONS AND ALL OTHER NECESSARY PERMITS ARE OBTAINED BEGIN STREAM CROSSING PROCESS.
- OPERATION AND CONSTRUCTION FOR STREAM CROSSINGS SHOULD BE PERFORMED IN A DRY WEATHER PATTERN OF AT LEAST 3-5 DAYS AND SHOULD NOT BEGIN UNTIL ALL NECESSARY CONSTRUCTION MATERIALS ARE LOCATED ON THE SITE.
- SILT FENCE MUST BE INSTALLED ALONG STREAM BANKS AT THE END OF THE WORK DAY TO MINIMIZE IMPACTS.
- INSTALL CHECK DAM WITH WEIR AT EXISTING GRADES.
- INSTALL THE IMPERVIOUS DIKES (SAND BAGS, SHEET PILING, OR NO. 57 STONE WITH POLYPROPYLENE FOR WIDTH AND DEPTH OF CHANNEL. SET UP AND BEGIN BYPASS PUMPING OF EXISTING FLOW PER THE DETAIL.
- IF A TEMPORARY CROSSING IS REQUIRED, UTILIZE TIMBER MAT.
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- INSTALL CULVERT PIPES AND HEADWALLS PER THE STORMWATER AND GRADING SHEETS AND SPECIFICATIONS WITHIN THIS PLAN SET. INFORM THE ENGINEER IF FIELD CONDITIONS DIFFER FROM THE PLANS TO AN EXTENT REQUIRING ANY MODIFICATIONS.
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- ADJUST TEMPORARY DIVERSION DITCHES IN PROXIMITY AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE TO SEDIMENT BASINS.
- PROCEED WITH OTHER SITE IMPROVEMENTS PER THE PLANS AND PROCEED TO PHASE 2 EROSION CONTROL WHEN POSSIBLE.

Check Dam with a Weir:	# 1
C	0.3
I	7.2 in/hr
A	0.200 AC
Q10	0.43 CFS
Storage Required	720 CF
Weir Length	0.49 FT
Q=C*I*A	Volume = A*3600
(Q cfs / 0.88)	(Q cfs / 0.88)
Check Dam with a Weir:	# 2
C	0.3
I	7.2 in/hr
A	0.220 AC
Q10	0.48 CFS
Storage Required	792 CF
Weir Length	0.54 FT
Q=C*I*A	Volume = A*3600
(Q cfs / 0.88)	(Q cfs / 0.88)
Check Dam with a Weir:	# 3
C	0.3
I	7.2 in/hr
A	0.060 AC
Q10	0.13 CFS
Storage Required	216 CF
Weir Length	0.15 FT
Q=C*I*A	Volume = A*3600
(Q cfs / 0.88)	(Q cfs / 0.88)
Check Dam with a Weir:	# 4
C	0.3
I	7.2 in/hr
A	0.090 AC
Q10	0.19 CFS
Storage Required	324 CF
Weir Length	0.22 FT
Q=C*I*A	Volume = A*3600
(Q cfs / 0.88)	(Q cfs / 0.88)

NOTE:
1. CHECK DAMS WITH A WEIR TO SERVE AS SEDIMENT STORAGE FOR STREAM CROSSINGS AS NEEDED. CHECK AND REMOVE SEDIMENT AS REQUIRED.

GENERAL NOTES

- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
- THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR THE ARCHITECT.
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- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY TRACKED SOIL FROM ALL ADJACENT ROADWAYS THAT ARE IMPACTED BY CONSTRUCTION TRAFFIC. THE OWNER RESERVES THE RIGHT TO REQUIRE THAT A WASH STATION BE INSTALLED AT NO ADDITIONAL COST IF PAVEMENT AREAS ARE NOT KEPT CLEAN.
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- UTILITY LOCATIONS ARE TO BE FOUND BY CALLING NC ONE CALL.
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- CUT AND FILL SLOPES SHALL BE STABILIZED AS REQUIRED BY THE GENERAL PERMIT STABILIZATION REQUIREMENTS FOUND ON THIS SHEET.
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- STOCKPILE HEIGHT SHALL NOT EXCEED 35'.

EROSION CONTROL PLAN-STAGE 1 KEYNOTES

NUMBER	DESCRIPTION
EC101	LIMITS OF DISTURBANCE
EC102	SILT FENCE; REFER TO DETAIL (TYP.)
EC103	SILT FENCE OUTLET; REFER TO DETAIL (TYP.)
EC104	TEMPORARY 25' x 100' CONSTRUCTION ENTRANCE; REFER TO DETAIL
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EC107	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #1 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.0 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC108	PERMANENT RISER WITH TEMPORARY SKIMMER BASIN #2 EMBANKMENT, RISER AND OUTFALL TO BE CONSTRUCTED AS PERMANENT PER SCM DETAILS ON SHEET C8.1 (REFER TO BASIN SUMMARY ON SHEET C4.01)
EC109	TEMPORARY SKIMMER BASIN #3 (REFER TO BASIN SUMMARY ON SHEET C4.01)
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EC146	TEMPORARY PIPE FOR OUTFALL CROSSING
EC147	ROCK CHECK DAM WITH WEIR (REFER TO DETAIL)
EC148	TIMBER MAT
EC149	SILT FENCE OUTLET WITH J HOOKS (TYP. AT STREAM CROSSINGS)

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- STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES, WITH A MAXIMUM HEIGHT OF 35 FT WITH 2:1 OR FLATTER SLOPES.
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- REMOVE SEDIMENT FROM BEHIND SILT FENCE WHEN DEPTH REACHES 6 INCHES AT THE FENCE. REPAIR SILT FENCE AS NECESSARY TO MAINTAIN A BARRIER.
- ALL SEEDING AREAS SHALL BE FERTILIZED, RE-SEED AS NECESSARY, AND MULCHED ACCORDING TO PROJECT SPECS TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE GROWTH.
- TOP DRESS CONSTRUCTION ENTRANCES WITH CLEAN STONE AS NECESSARY TO MAINTAIN PROPER FUNCTIONING.
- REFER TO SPECIFIC DEVICE DETAILS FOR ADDITIONAL MAINTENANCE REQUIREMENTS.

Required Wake County Basin Removal Sequence

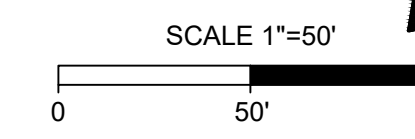
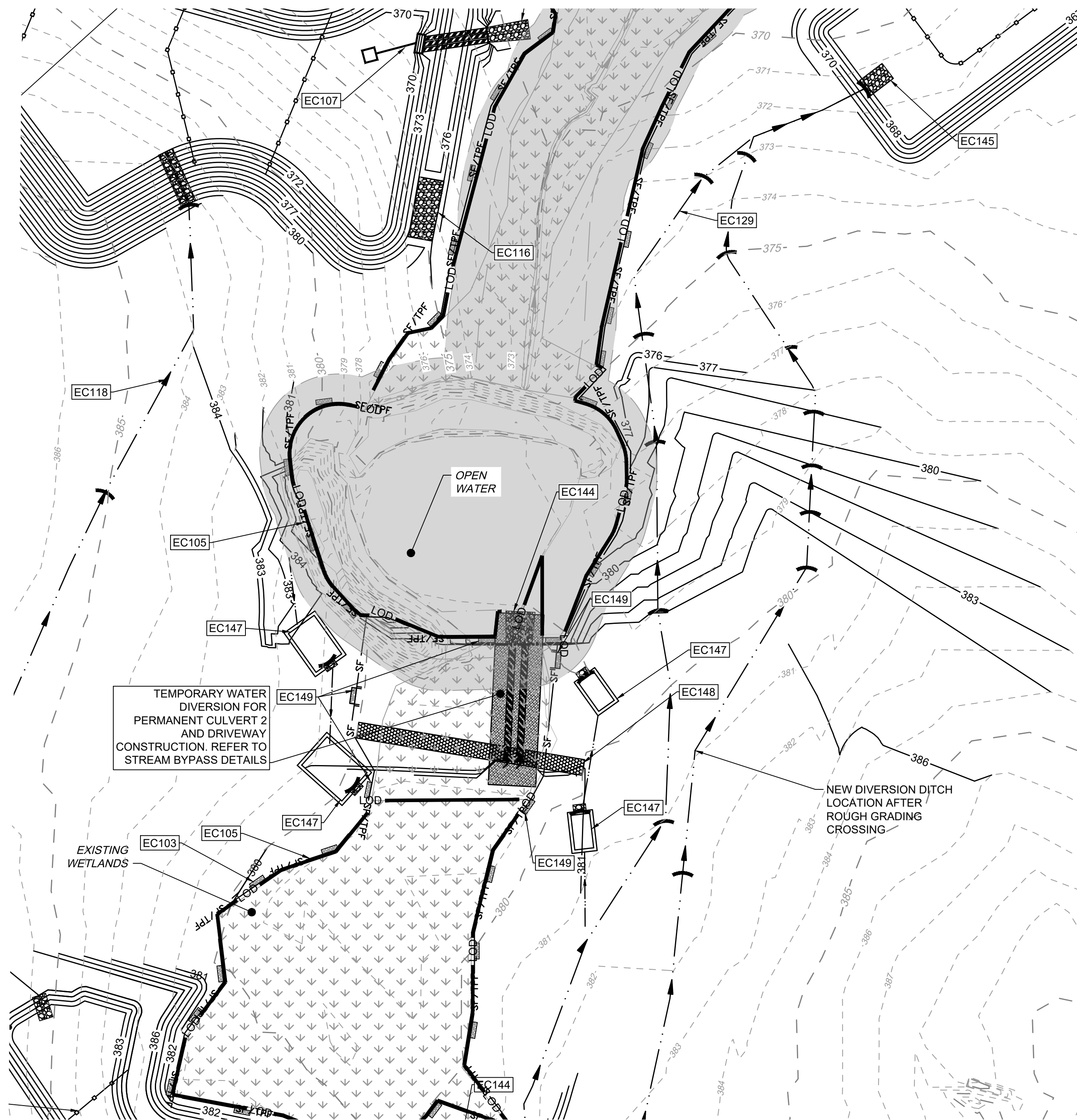
- Schedule a site meeting with the Environmental Consultant to determine if a basin can be removed. Install silt fencing or other temporary erosion control measures as needed prior to removal of the basin.
- Remove Basin(s) and associated temporary diversion ditches. If culvert pipes need to be extended, perform this operation at this time. Fine grade area in preparation for seeding.
- Perform seedbed preparation, seed, mulch and asphalt tack any resulting bare areas immediately.
- Install velocity dissipators and/or level spreaders as required on the Erosion Control Plan.
- 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.

ATTENTION CONTRACTORS

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Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.



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07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
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01/02/2024	REVISED TO APPROVED PLANS

09/17/2021
DRAWN BY
R. WINGATE
DESIGNED BY
P. BARBEAU
CHECKED BY
P. BARBEAU
SCALE
AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

STREAM CROSSING EROSION CONTROL 2

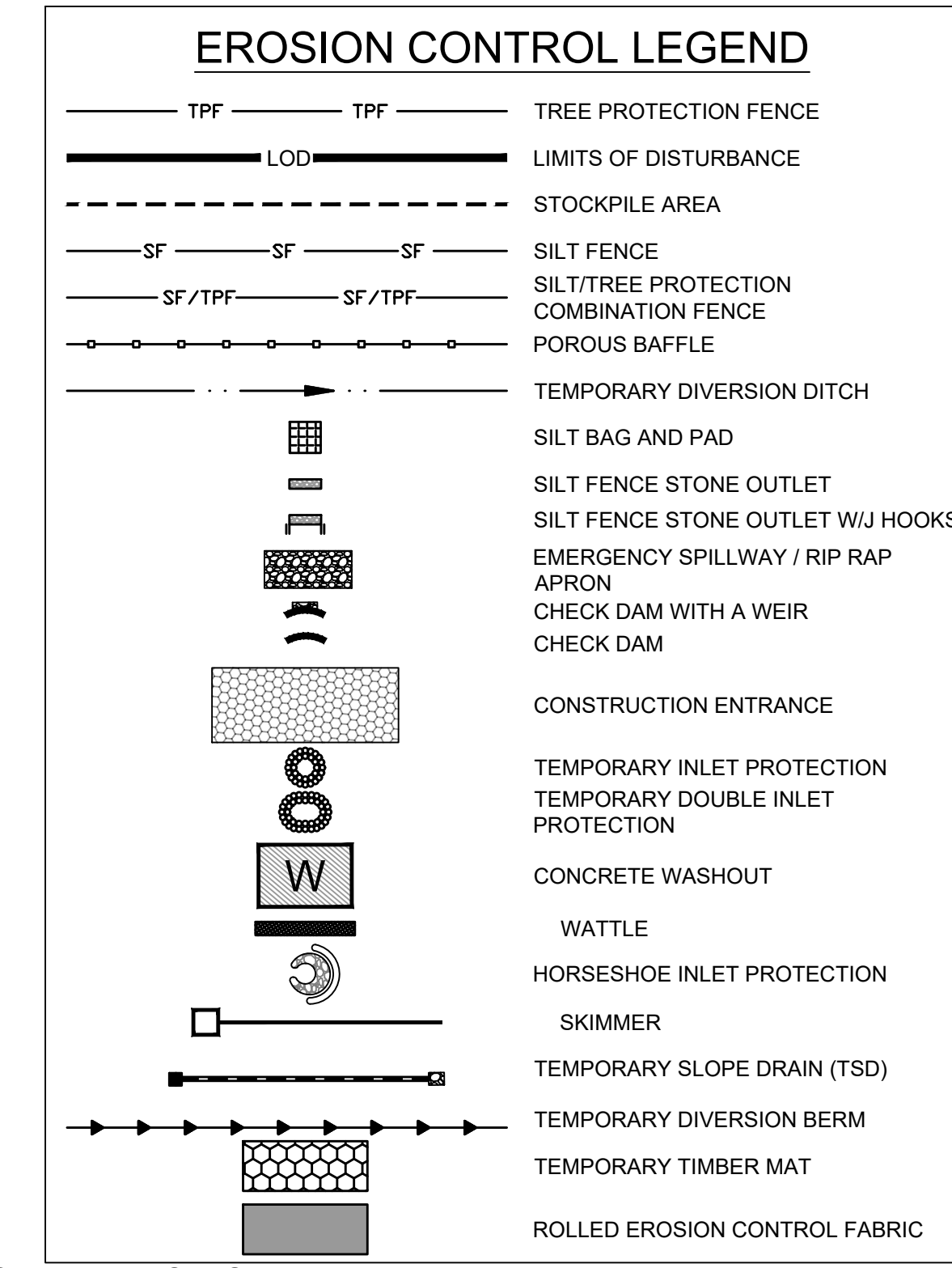
JOB NO.
43398
SHEET NO.
C4.7

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EROSION CONTROL PLAN-STAGE 2 KEYNOTES	
NUMBER	DESCRIPTION
EC101	LIMITS OF DISTURBANCE
EC102	SILT FENCE; REFER TO DETAIL (TYP.)
EC103	SILT FENCE OUTLET; REFER TO DETAIL (TYP.)
EC104	TEMPORARY 25' x 100' CONSTRUCTION ENTRANCE; REFER TO DETAIL
EC105	SILT-TREE COMBINATION FENCE; REFER TO DETAIL (TYP.)
EC106	TREE FENCE; REFER TO DETAIL (TYP.)
EC136	POROUS BAFFLES (TYP.)
EC137	SILT BAG AND SILT BAG PAD
EC138	IMPERMEABLE MEMBRANE APRON
EC139	3:1 SIDE SLOPE
EC140	STOCKPILE AREA
EC141	CONCRETE WASHOUT
EC142	TEMPORARY CLASS 3 18" RCP PIPE FOR DITCH CROSSING
EC143	TEMPORARY HORSESHOE INLET PROTECTION
EC144	PIPE OUTFALL PROTECTION (REFER TO C4.1)
EC145	DIVERSION DITCH OUTLET PROTECTION (C3.0 FOR DITCH CHARTS)
EC146	TEMPORARY PIPE FOR OUTFALL CROSSING
EC147	TEMPORARY STORM INLET PROTECTION; REFER TO DETAIL (TYP.)
EC148	GREENWAY BOARDWALK BRIDGE
EC149	TEMPORARY STREAM BYPASS AND TIMBER MATTING FOR SEWER CROSSING; REFER TO DETAIL (TYP.)
EC150	2:1 SIDE SLOPE (SOD) STABILIZE WITH EROSION CONTROL BLANKETS SUCH AS NORTH AMERICAN GREEN S150, OR SIMILARLY RATED PRODUCT FOR STEEP SLOPES
EC151	2.5:1 SIDE SLOPE (SOD) STABILIZE WITH EROSION CONTROL BLANKETS SUCH AS NORTH AMERICAN GREEN S150, OR SIMILARLY RATED PRODUCT FOR STEEP SLOPES
EC152	TEMPORARY INLET PROTECTION; REFER TO DETAIL (TYP.)
EC153	ROCK CHECK DAM WITH WEIR (REFER TO DETAIL)
EC154	TIMBER MAT
EC155	SILT FENCE STONE OUTLET WITH J HOOKS (TYP. AT STREAM CROSSINGS)



STAGE II WAKE COUNTY EROSION CONTROL SEQUENCE

- ALL STAGE I EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE BEGINNING STAGE 2. REFER TO STAGE I EROSION CONTROL PLAN SHEETS. REFURBISH ALL STAGE I EROSION CONTROL MEASURES AS NEEDED BEFORE PROCEEDING WITH STAGE 2.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION. ALL EROSION CONTROL DEVICES SHOULD BE INSPECTED AFTER EACH RAINFALL EVENT, AND ON A WEEKLY BASIS, AND REFURBISHED IMMEDIATELY. DO NOT REMOVE SKIMMER BASINS NOR OTHER MEASURES UNTIL INSTRUCTED TO DO SO. SKIMMER BASINS TO REMAIN THROUGHOUT CONSTRUCTION.
- CLEAR & GRUB THE SITE. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE THE SITE. AT THE END OF EACH WORKDAY OF GRADING, ALL TEMPORARY DIVERSION DITCHES/BERMS SHALL BE REFURBISHED AS NEEDED TO MAINTAIN DRAINAGE PATTERNS TO BASINS.
- INSTALL STORM DRAINAGE SYSTEM. INSTALL TEMPORARY INLET PROTECTION AT ALL DRAINAGE INLETS.
- STABILIZE THE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES. REFER TO GRADING PLAN FOR DITCH SIZE & LINING INFORMATION.
- REFER TO STREAM CROSSING PLAN ON C4.13 FOR SEWER AND BOARDWALK STREAM CROSSINGS.
- AFTER SITE IS STABILIZED WITH GRAVEL, ASPHALT, MULCH, SEED ETC., THEN CONTACT WAKE COUNTY EROSION CONTROL & REQUEST PERMISSION TO REMOVE SKIMMER BASINS 6-9 AND CONVERT SKIMMER BASINS 1-5 INTO PERMANENT SCMS PER THE PLANS AS DRAINAGE BASINS TO EACH REACH ADEQUATE STABILIZATION.
- NOTIFY NCEQ/DEM/R A MINIMUM OF 10 DAYS PRIOR TO INITIATING THE BASIN REMOVAL/CONVERSION SEQUENCE.
- ONCE APPROVAL IS OBTAINED, REFER TO BASIN REMOVAL SEQUENCE NOTES ON THIS SHEET.
- MUCK OUTBASINS. ACCURATELY FINE GRADE SCMS ACCORDING TO SCM DETAILS SHEETS. FIELD SURVEY VERIFY ALL SCM GRADES AND INVERTS. INSTALL GABION WEIR WALL, SIPHON OUTLET, SLOPES, SPILLWAY, BERM, ETC.
- CONTRACTOR TO PERFORM AS-BUILT SURVEY OF SCMS PER WAKE COUNTY REQUIREMENTS INCLUDING BERM, SPILLWAY, SLOPES, GABION WEIR WALL, FLOOR, FOREBAYS, PIPE INVERTS, OUTLET PIPE, RISER TOP ELEVATION, RISER ORIFICE DIAMETERS, RISER ORIFICE INVERTS, ETC. SUBMIT AS-BUILT SURVEY TO OWNER/ENGINEER, AND SEEK COUNTY APPROVAL OF SCMS.
- INSTALL RIPRAP APRONS OVER FILTER FABRIC. INSTALL PERMANENT SPILLWAY LINER AND SOD. SOD BERM & ALL BASIN SLOPES PER DETAILS.
- REMOVE TEMPORARY SKIMMER. CLOSE RISER DRAIN. UNPLUG ALL RISER ORIFICES.
- CONTACT ENGINEER TO REQUEST FINAL POND INSPECTION & PE CERTIFICATION OF POND.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL 919.796.8769 FOR AN ON-SITE INSPECTION WITH THE WAKE COUNTY WATERSHED MANAGER.
- IF SITE IS APPROVED, THEN REMOVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY DIVERSIONS, SILT FENCE, SKIMMER BASINS, ETC. AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS RIPRAP APRONS OVER FILTER FABRIC SHOULD NOW BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE WAKE COUNTY ENVIRONMENTAL CONSULTANT KARYN PAGEAU, 919-796-8769. OBTAIN A CERTIFICATE OF COMPLETION.

MAINTENANCE PLAN:

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED 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.
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GENERAL NOTES

- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
- THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR THE ARCHITECT.
- THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING THIS PHASE OF WORK AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY TRACKED SOIL FROM ALL ADJACENT ROADWAYS THAT ARE IMPACTED BY CONSTRUCTION TRAFFIC. THE OWNER RESERVES THE RIGHT TO REQUIRE THAT A WASH STATION BE INSTALLED AT NO ADDITIONAL COST IF PAVEMENT AREAS ARE NOT KEPT CLEAN.
- CONTRACTOR SHALL ABIDE BY ALL CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NO. NCG010000.
- A PRECONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO WORK, GRADING PERMIT AND INSTALLATION OF EROSION CONTROL.
- UTILITY LOCATIONS ARE TO BE FOUND BY CALLING NC ONE CALL.
- ALL TEMPORARY MEASURES SHALL BE REMOVED AT THE END OF THE CONSTRUCTION OF THE PROJECT.
- CUT AND FILL SLOPES SHALL BE STABILIZED AS REQUIRED BY THE GENERAL PERMIT STABILIZATION REQUIREMENTS FOUND ON THIS SHEET.
- SILT FENCING SHALL BE INSTALLED AROUND THE PERIMETER SEPARATING EXISTING PEDESTRIAN TRAFFIC AREAS.
- ALL CUT AND FILL SLOPES ARE TO BE AT A 3:1 MAXIMUM UNLESS OTHERWISE NOTED.
- THERE SHALL BE NO SOIL DISTURBANCE OR RECOMPACTION WITHIN AREAS DESIGNATED FOR THE TREE PRESERVATION AND PROTECTION FENCING, INCLUDING NO STOCKPILING OF CONSTRUCTION OR OTHER MATERIAL, TRAFFIC, OR BORING SAMPLE.
- STOCKPILE HEIGHT SHALL NOT EXCEED 35'.
- FOR UTILITY STREAM CROSSING, DISTURB ONLY THE AREA REQUIRED FOR INSTALLATION. CONSTRUCTION FOR CROSSING TO ONLY BEGIN ONCE ALL NECESSARY MATERIALS ARE ON SITE AND CONDITIONS ARE IN A DRY WEATHER PATTERN OF 3-5 DAYS.

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Failure to call for **Inspection, Install a Downstream Plug**, have **Permitted Plans** on the **Jobsite**, or any other **Violation of City of Raleigh Standards** will result in a **Fine and Possible Exclusion** from future work in the **City of Raleigh**.

NPDES GROUND STABILIZATION

SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:

- ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND SLOPES STEEPER THAN 3:1 SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE, BUT WITHIN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS TEMPORARY AS PRACTICABLE, BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

Required Wake County Basin Removal Sequence

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09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021
 DRAWN BY
A. BROWN
 DESIGNED BY
P. BARBEAU
 CHECKED BY
P. BARBEAU
 SCALE
AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

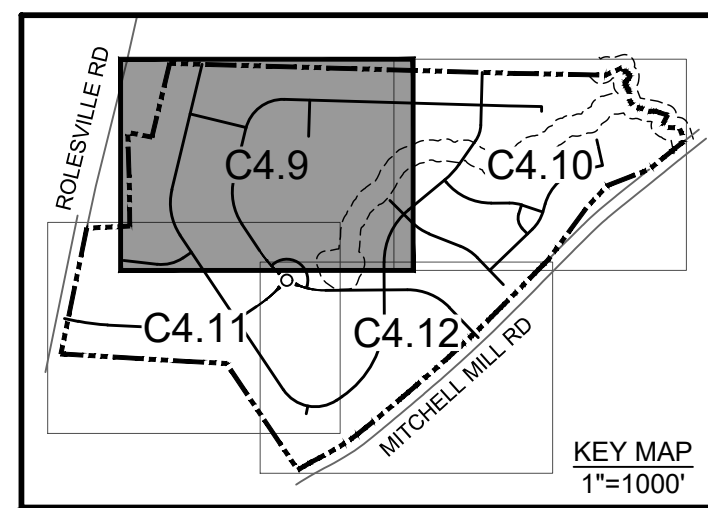
ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

EROSION CONTROL-STAGE 2 OVERALL

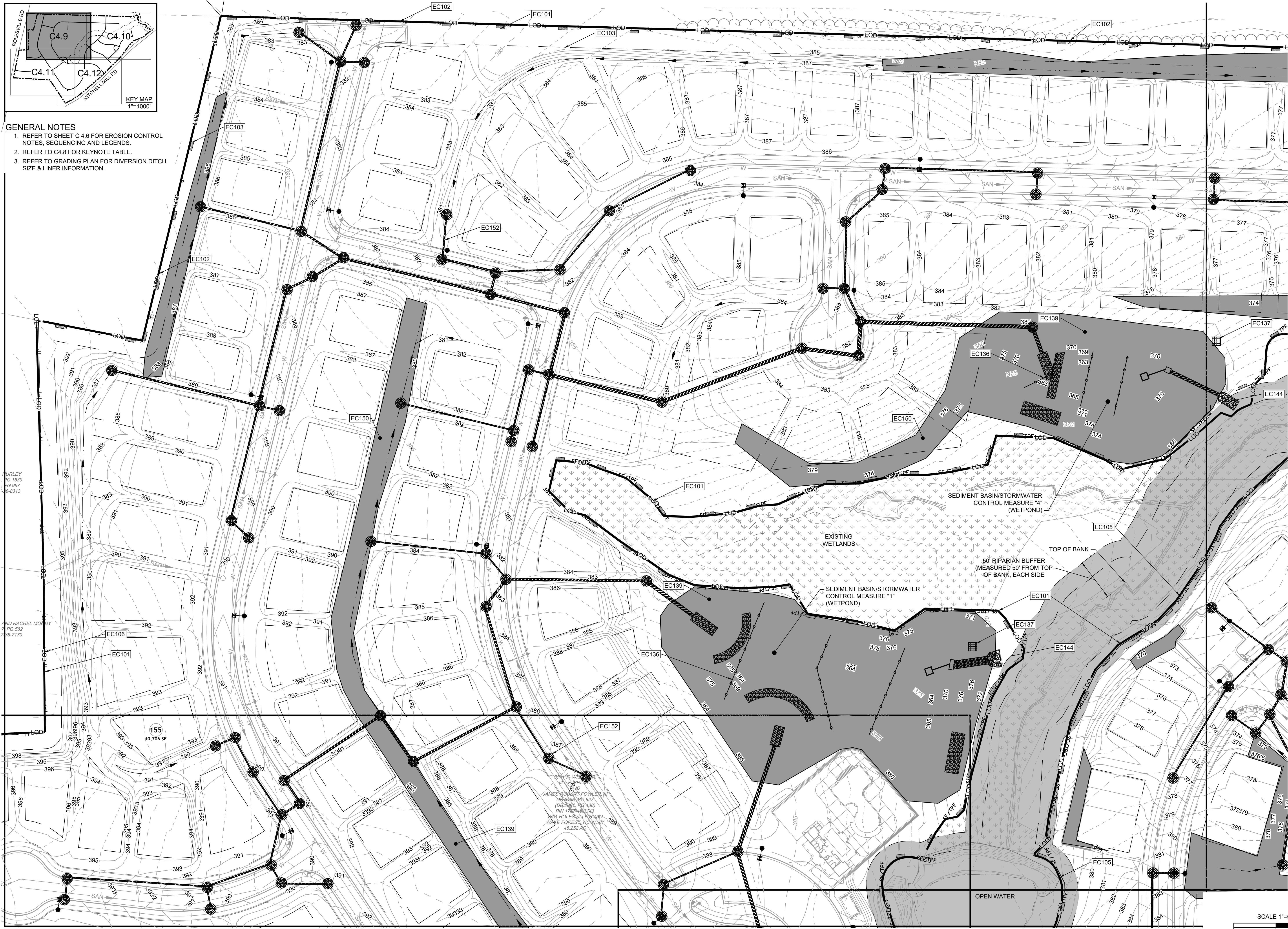
JOB NO.
43398

SHEET NO.
C4.8

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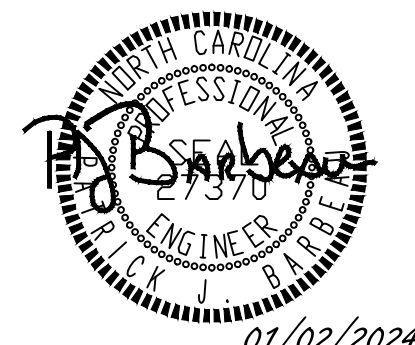
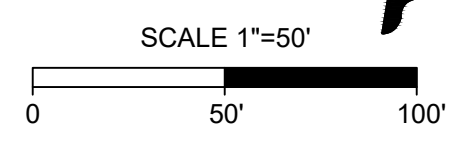


MURLEY
PG 1539
PG 587
PG 8313

AND RACHEL MOODY
PG 582
PG 7170

155
10,706 SF

JAMES G. WILSON
JULIA WILSON
1001 ROLESVILLE ROAD
WAKE FOREST, NC 27707
48.252 NC



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CONSTRUCTION DOCUMENT SUBMITTAL
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REVISE TO APPROVED PLANS

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09/17/2021

DRAWN BY
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DESIGNED BY
P. BARBEAU

CHECKED BY
P. BARBEAU

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NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

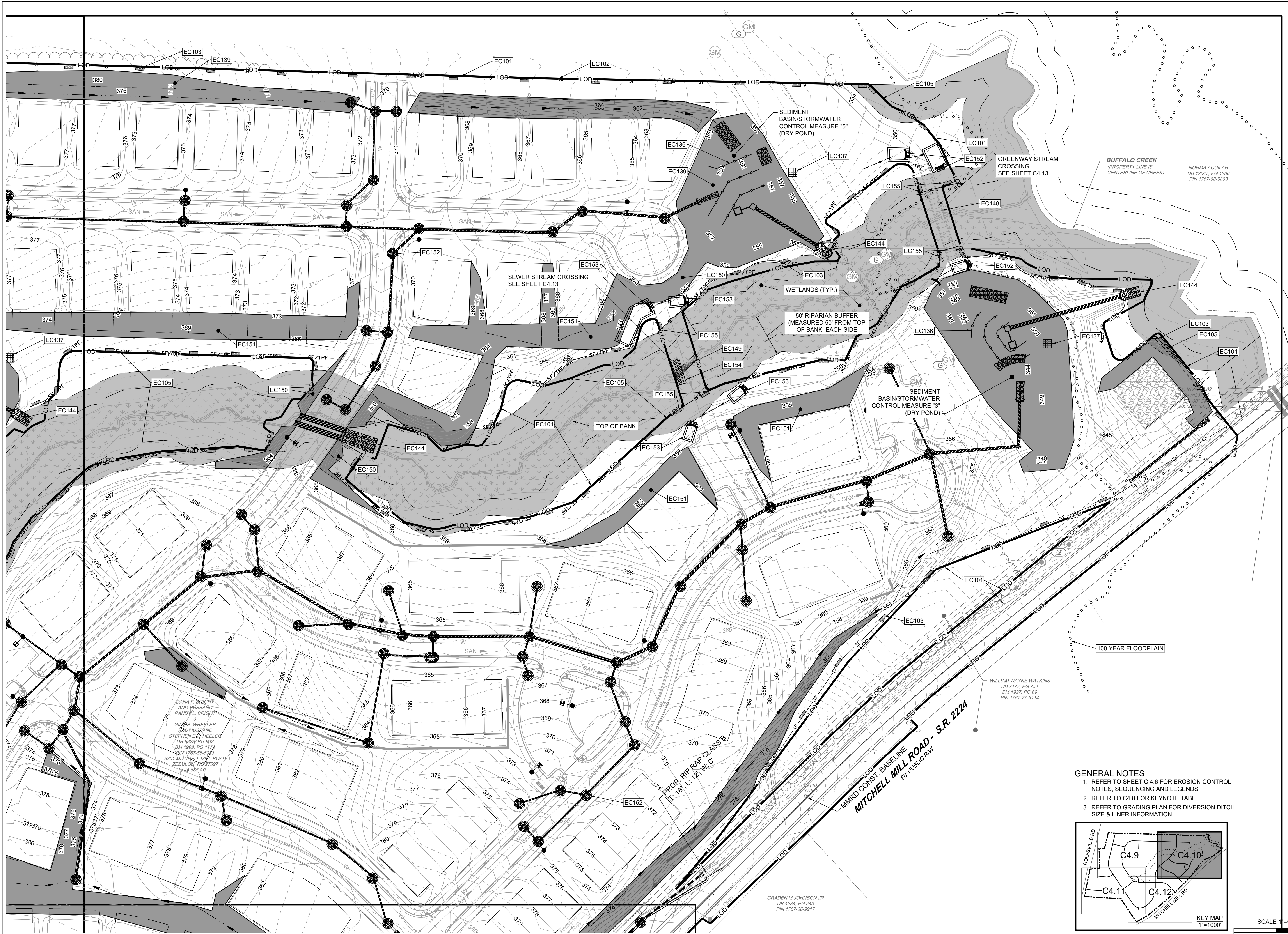
EROSION CONTROL STAGE 2

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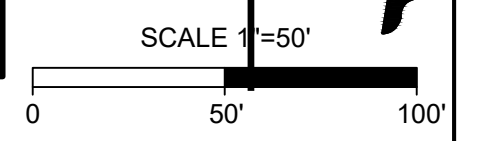
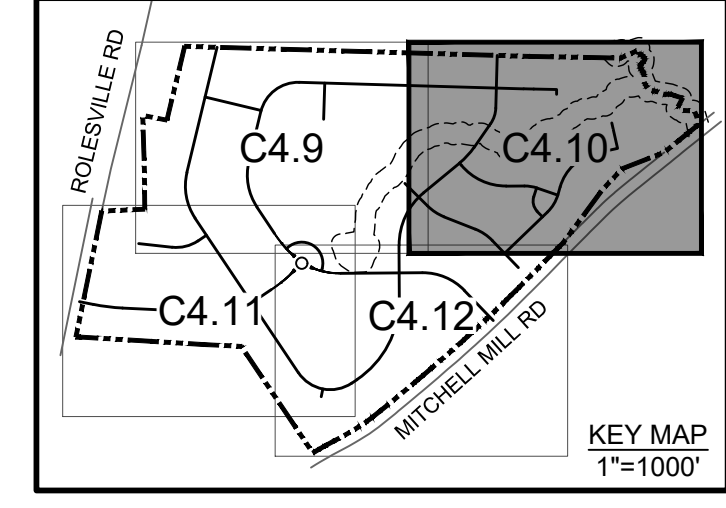
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 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
EROSION CONTROL-STAGE 2

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C4.10

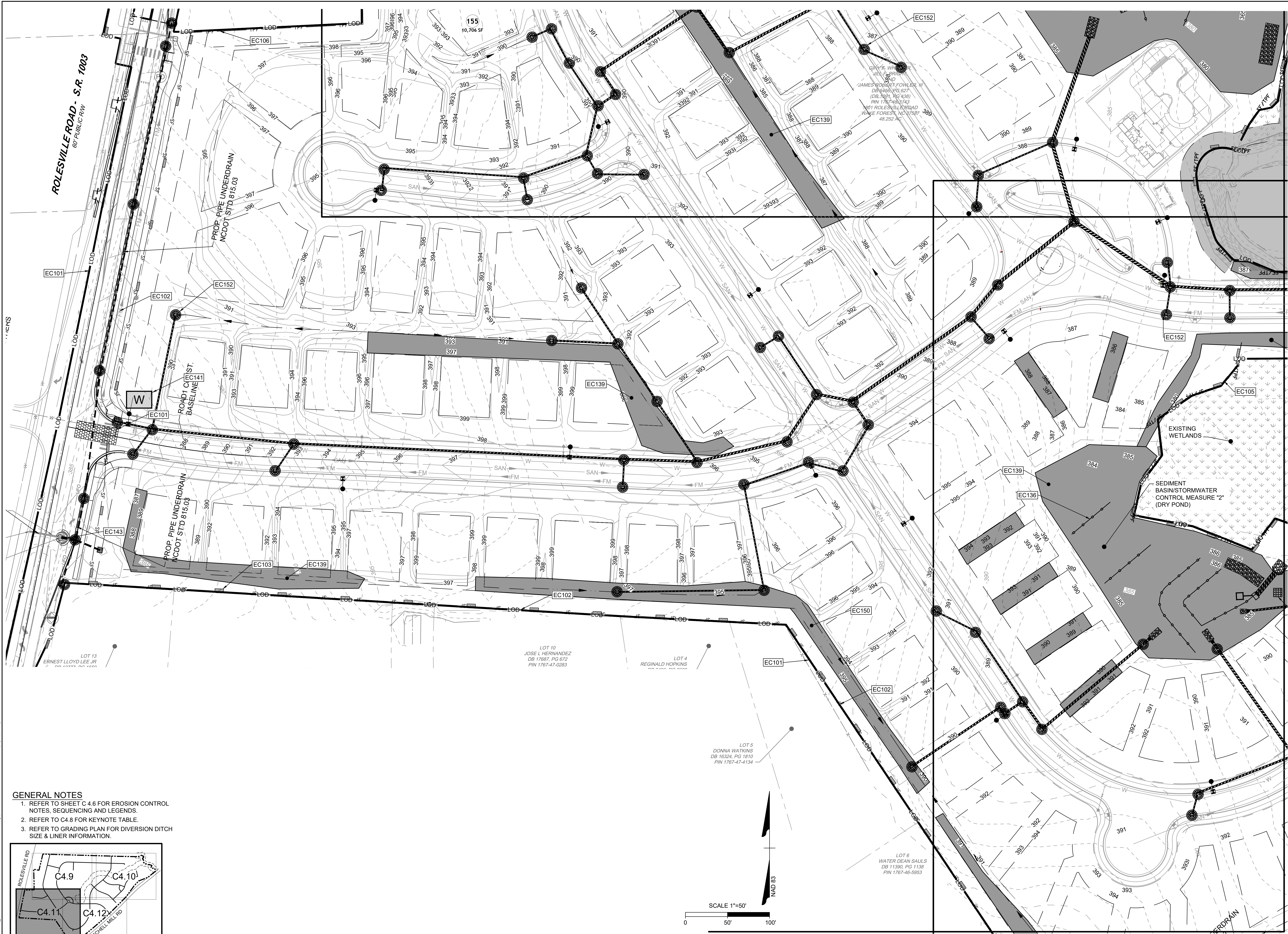
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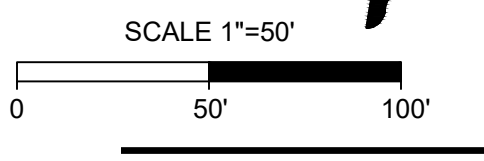
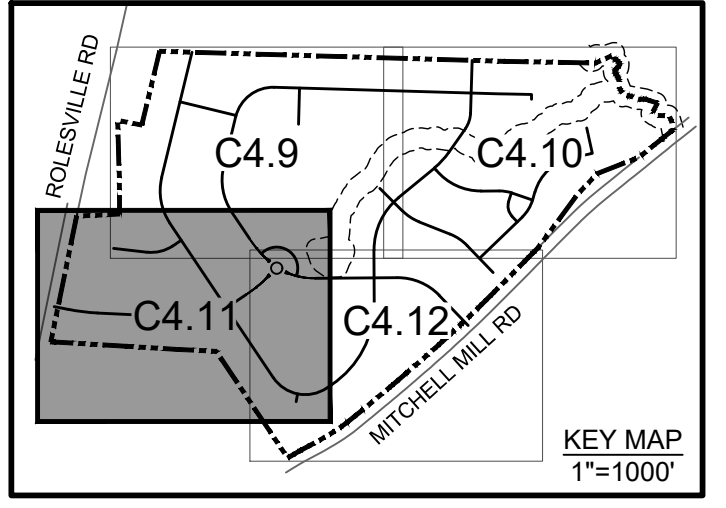
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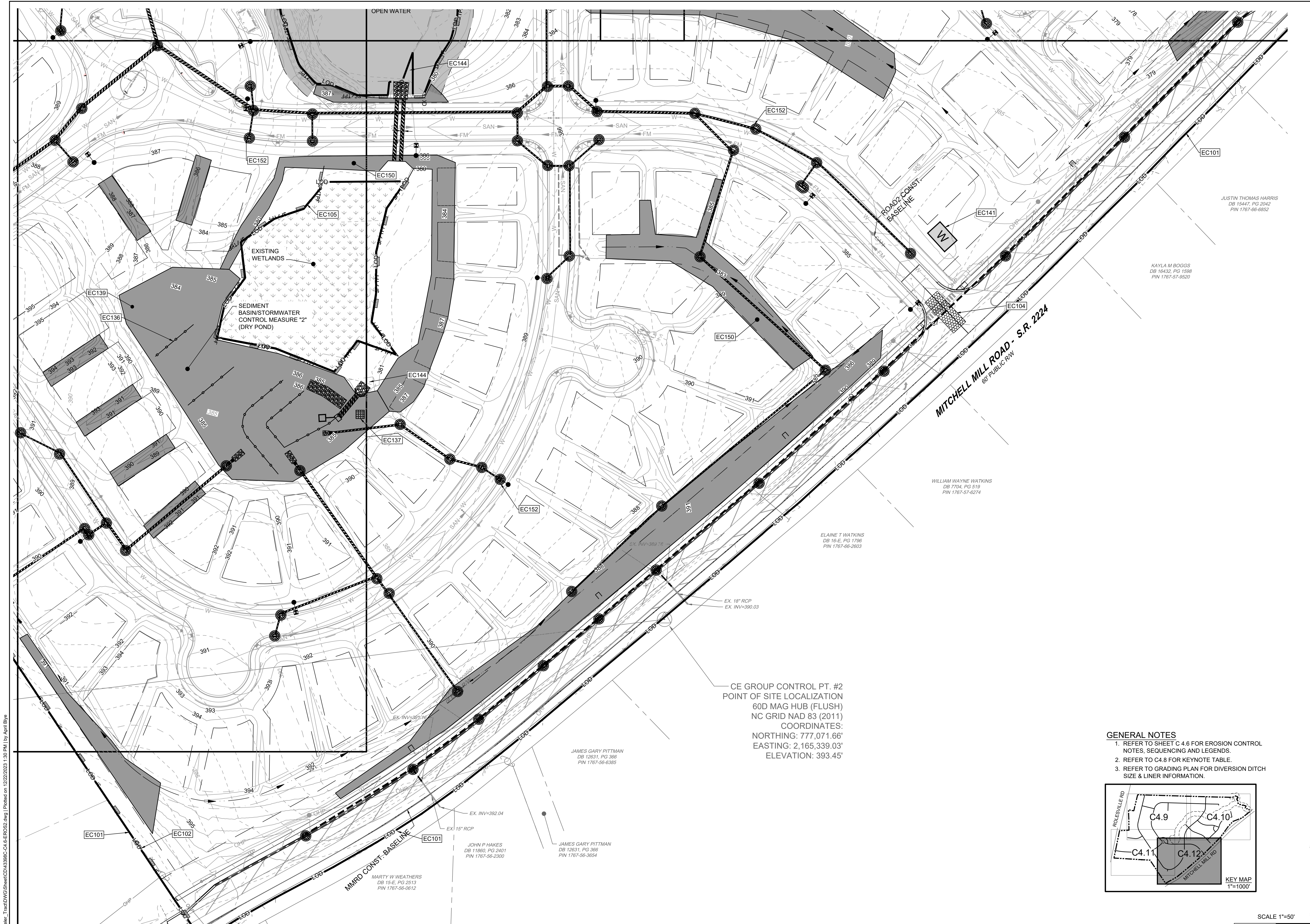
ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
EROSION CONTROL-STAGE 2

JOB NO.
43398

SHEET NO.
C4.11

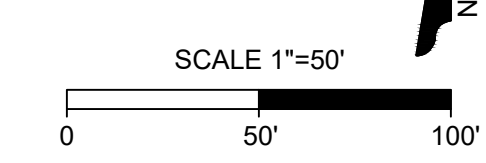
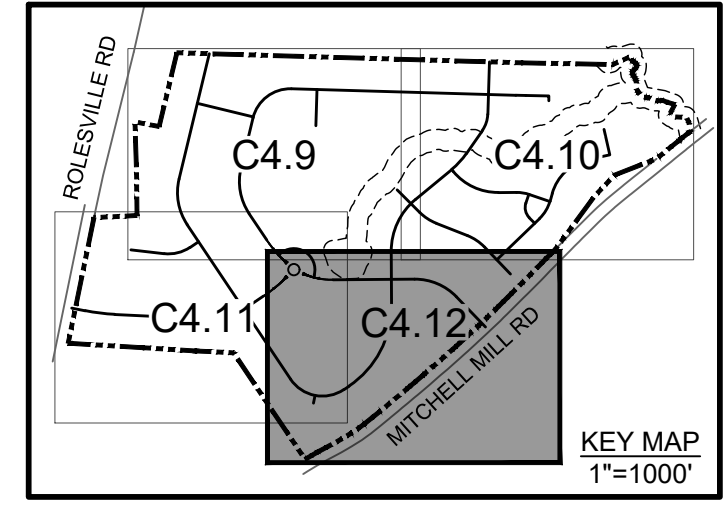
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CE GROUP CONTROL PT. #2
 POINT OF SITE LOCALIZATION
 60D MAG HUB (FLUSH)
 NC GRID NAD 83 (2011)
 COORDINATES:
 NORTHING: 777,071.66'
 EASTING: 2,165,339.03'
 ELEVATION: 393.45'

- GENERAL NOTES**
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06/24/2022	REVISE PER WAKE COUNTY COMMENTS
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09/06/2023	REVISE PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISE TO APPROVED PLANS

09/17/2021
 DRAWN BY
A. BROWN
 DESIGNED BY
P. BARBEAU
 CHECKED BY
P. BARBEAU
 SCALE
AS SHOWN

TIMMONS GROUP
 NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

EROSION CONTROL-STAGE 2

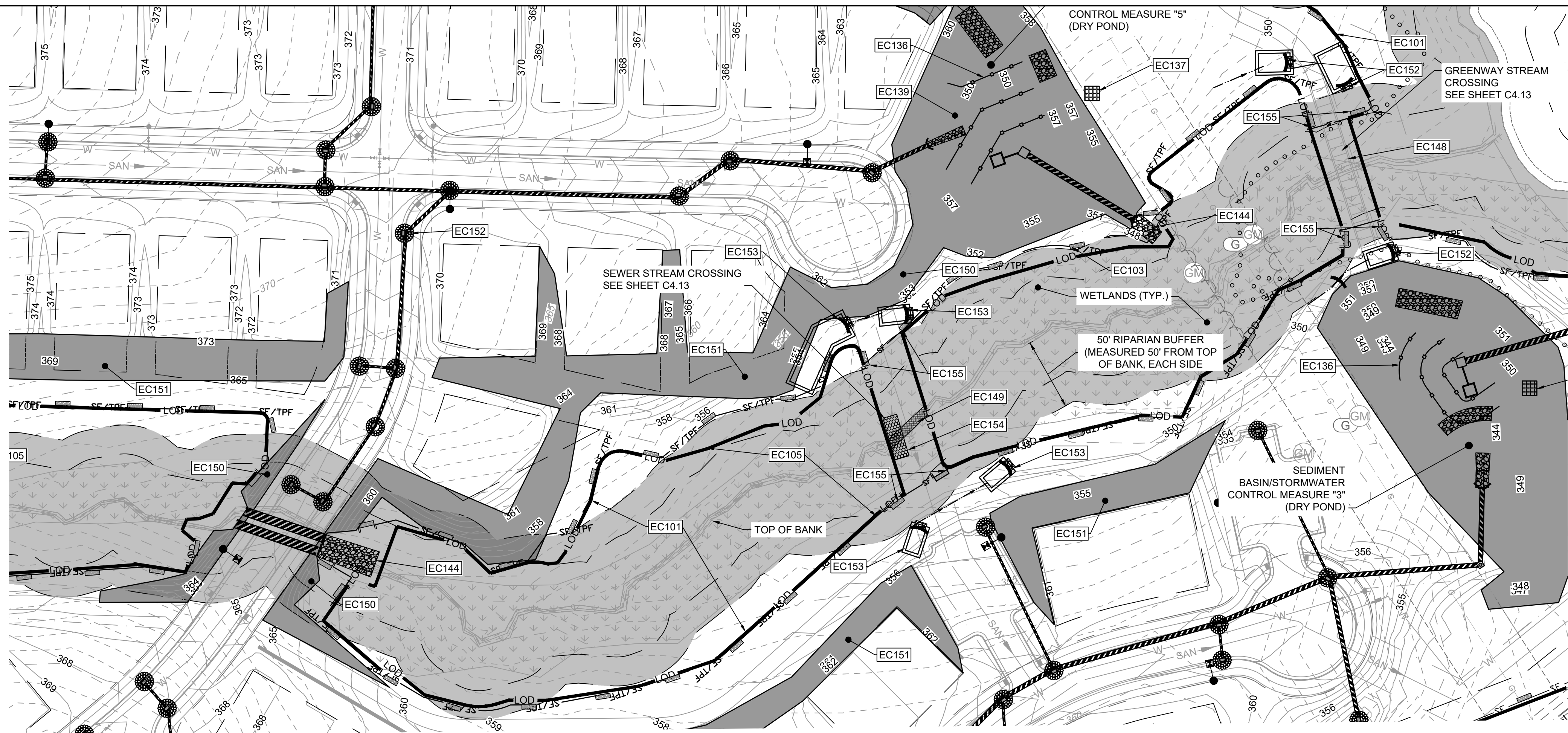
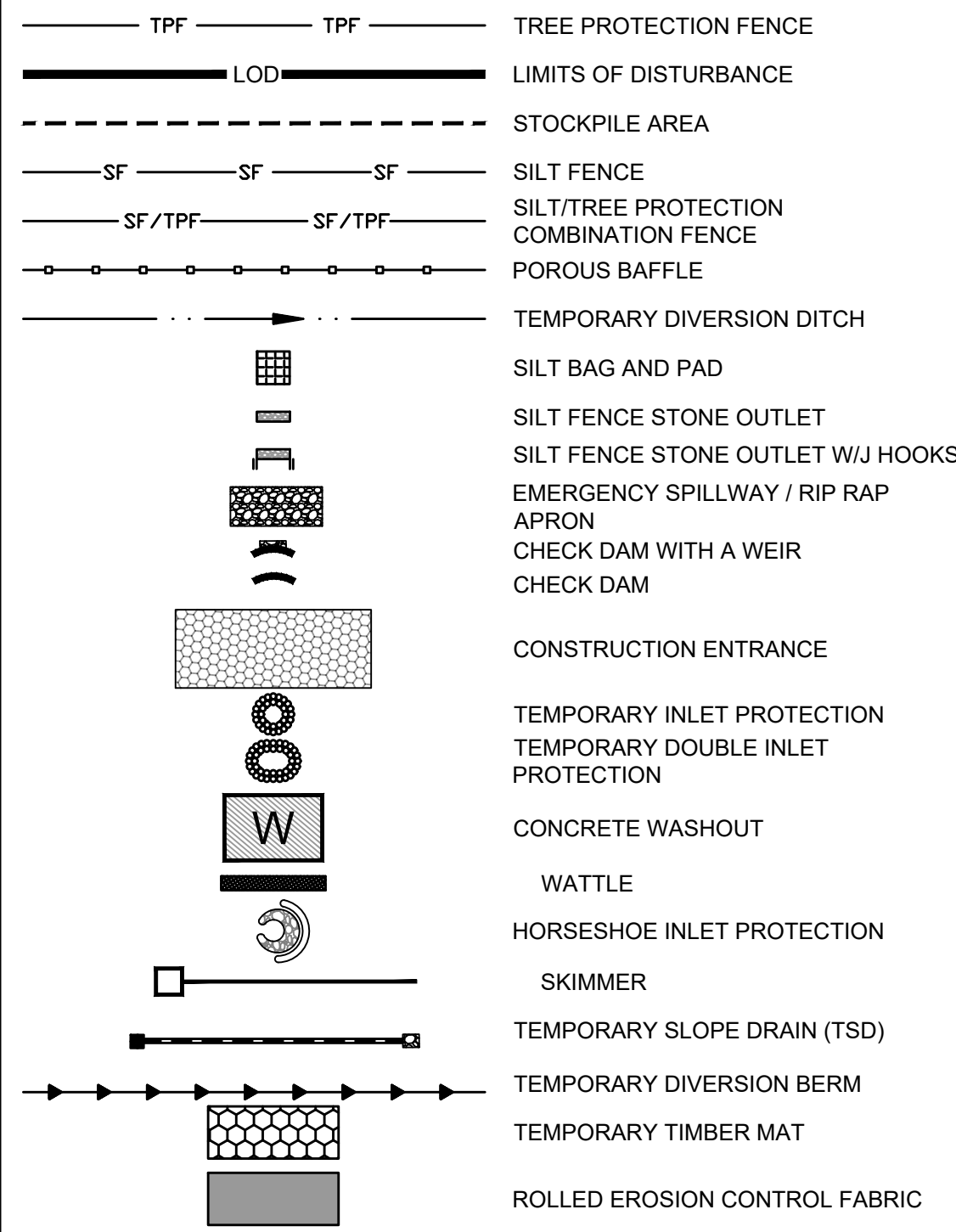
JOB NO.
43398

SHEET NO.
C4.12

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EROSION CONTROL LEGEND



SEWER CROSSING

GREENWAY CROSSING

EROSION CONTROL PLAN-STAGE 2 KEYNOTES

NUMBER	DESCRIPTION
EC101	LIMITS OF DISTURBANCE
EC102	SILT FENCE; REFER TO DETAIL (TYP.)
EC103	SILT FENCE OUTLET; REFER TO DETAIL (TYP.)
EC104	TEMPORARY 25' x 100' CONSTRUCTION ENTRANCE; REFER TO DETAIL
EC105	SILT-TREE COMBINATION FENCE; REFER TO DETAIL (TYP.)
EC106	TREE FENCE; REFER TO DETAIL (TYP.)
EC136	POROUS BAFFLES (TYP.)
EC137	SILT BAG AND SILT BAG PAD
EC138	IMPERMEABLE MEMBRANE APRON
EC139	3:1 SIDE SLOPE
EC140	STOCKPILE AREA
EC141	CONCRETE WASHOUT
EC142	TEMPORARY CLASS 3 18" RCP PIPE FOR DITCH CROSSING
EC143	TEMPORARY HORSESHOE INLET PROTECTION
EC144	PIPE OUTFALL PROTECTION (REFER TO C4.1)
EC145	DIVERSION DITCH OUTLET PROTECTION (C3.0 FOR DITCH CHARTS)
EC146	TEMPORARY PIPE FOR OUTFALL CROSSING
EC147	TEMPORARY STORM INLET PROTECTION; REFER TO DETAIL (TYP.)
EC148	GREENWAY BOARDWALK BRIDGE
EC149	TEMPORARY STREAM BYPASS AND TIMBER MATTING FOR SEWER CROSSING; REFER TO DETAIL (TYP.)
EC150	2:1 SIDE SLOPE (SOD) STABILIZE WITH EROSION CONTROL BLANKETS SUCH AS NORTH AMERICAN GREEN S150, OR SIMILARLY RATED PRODUCT FOR STEEP SLOPES.
EC151	2.5:1 SIDE SLOPE (SOD) STABILIZE WITH EROSION CONTROL BLANKETS SUCH AS NORTH AMERICAN GREEN S150, OR SIMILARLY RATED PRODUCT FOR STEEP SLOPES.
EC152	TEMPORARY INLET PROTECTION; REFER TO DETAIL (TYP.)
EC153	ROCK CHECK DAM WITH WEIR (REFER TO DETAIL)
EC154	TIMBER MAT
EC155	SILT FENCE STONE OUTLET WITH J HOOKS (TYP. AT STREAM CROSSINGS)

Check Dam with a Weir: # 1	
C	0.3
I	7.2 in/hr
A	0.030 AC
Q10	0.06 CFS
Storage Required	108 CF
Weir Length	0.07 FT
Q=C*I*A	
Volume = A*3600	
(Q cfs / 0.88)	

Check Dam with a Weir: # 2	
C	0.3
I	7.2 in/hr
A	0.284 AC
Q10	0.61 CFS
Storage Required	1022.4 CF
Weir Length	0.70 FT
Q=C*I*A	
Volume = A*3600	
(Q cfs / 0.88)	

Check Dam with a Weir: # 3	
C	0.3
I	7.2 in/hr
A	0.030 AC
Q10	0.06 CFS
Storage Required	108 CF
Weir Length	0.07 FT
Q=C*I*A	
Volume = A*3600	
(Q cfs / 0.88)	

Check Dam with a Weir: # 4	
C	0.3
I	7.2 in/hr
A	0.046 AC
Q10	0.10 CFS
Storage Required	165.6 CF
Weir Length	0.11 FT
Q=C*I*A	
Volume = A*3600	
(Q cfs / 0.88)	

Check Dam with a Weir: # 1	
C	0.3
I	7.2 in/hr
A	0.147 AC
Q10	0.32 CFS
Storage Required	529.2 CF
Weir Length	0.36 FT
Q=C*I*A	
Volume = A*3600	
(Q cfs / 0.88)	

Check Dam with a Weir: # 2	
C	0.3
I	7.2 in/hr
A	0.097 AC
Q10	0.21 CFS
Storage Required	349.2 CF
Weir Length	0.24 FT
Q=C*I*A	
Volume = A*3600	
(Q cfs / 0.88)	

Check Dam with a Weir: # 3	
C	0.3
I	7.2 in/hr
A	0.050 AC
Q10	0.11 CFS
Storage Required	180 CF
Weir Length	0.12 FT
Q=C*I*A	
Volume = A*3600	
(Q cfs / 0.88)	

NOTE:
1. CHECK DAMS WITH A WEIR TO SERVE AS SEDIMENT STORAGE FOR STREAM CROSSINGS AS NEEDED. CHECK AND REMOVE SEDIMENT AS REQUIRED.

NPDES GROUND STABILIZATION

SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:

- ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND SLOPES STEEPER THAN 3:1 SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE, BUT WITHIN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE, BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.

TEMPORARY STOCKPILE NOTES

- STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES, WITH A MAXIMUM HEIGHT OF 35 FT WITH 2:1 OR FLATTER SLOPES.
- SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEVED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
- 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.
- THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
- ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

GENERAL NOTES

- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
- THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR THE ARCHITECT.
- THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING THIS PHASE OF WORK AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY TRACKED SOIL FROM ALL ADJACENT ROADWAYS THAT ARE IMPACTED BY CONSTRUCTION TRAFFIC. THE OWNER RESERVES THE RIGHT TO REQUIRE THAT A WASH STATION BE INSTALLED AT NO ADDITIONAL COST IF PAVEMENT AREAS ARE NOT KEPT CLEAN.
- CONTRACTOR SHALL ABIDE BY ALL CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NO. NCG010000.
- A PRECONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO WORK, GRADING PERMIT AND INSTALLATION OF EROSION CONTROL.
- UTILITY LOCATIONS ARE TO BE FOUND BY CALLING NC ONE CALL.
- ALL TEMPORARY MEASURES SHALL BE REMOVED AT THE END OF THE CONSTRUCTION OF THE PROJECT.
- CUT AND FILL SLOPES SHALL BE STABILIZED AS REQUIRED BY THE GENERAL PERMIT STABILIZATION REQUIREMENTS FOUND ON THIS SHEET.
- SILT FENCING SHALL BE INSTALLED AROUND THE PERIMETER SEPARATING EXISTING PEDESTRIAN TRAFFIC AREAS.
- ALL CUT AND FILL SLOPES ARE TO BE AT A 3:1 MAXIMUM.
- THERE SHALL BE NO SOIL DISTURBANCE OR RECOMPACTMENT WITHIN AREAS DESIGNATED FOR THE TREE PRESERVATION AND PROTECTION FENCING. INCLUDING NO STOCKPILING OF CONSTRUCTION OR OTHER MATERIAL, TRAFFIC, OR BORING SAMPLE.
- STOCKPILE HEIGHT SHALL NOT EXCEED 35'.

STAGE 2 STREAM CROSSING EROSION CONTROL SEQUENCE

- ONCE PROPER 401/404 BUFFER AUTHORIZATIONS AND ALL OTHER NECESSARY PERMITS OBTAINED BEGIN STREAM CROSSING PROCESS AS NECESSARY FOR FORCE MAIN CONSTRUCTION.
- OPERATION AND CONSTRUCTION FOR STREAM CROSSINGS SHOULD BE PERFORMED IN A DRY WEATHER PATTERN OF AT LEAST 3-5 DAYS AND SHOULD NOT BEGIN UNTIL ALL NECESSARY CONSTRUCTION MATERIALS ARE LOCATED ON AT THE SITE.
- SILT FENCE MUST BE INSTALLED ALONG STREAM BANKS AT THE END OF THE WORK DAY TO MINIMIZE IMPACTS.
- INSTALL CHECK DAM WITH WEIR AT EXISTING GRADES PER SIZING ON THIS SHEET FOR SEDIMENT STORAGE.
- INSTALL THE IMPERVIOUS DIKES (SAND BAGS, SHEET PILING, OR NO. 57 STONE WITH POLYPROPYLENE FOR WIDTH AND DEPTH OF CHANNEL. SET UP AND BEGIN BYPASS PUMPING OF EXISTING FLOW PER THE DETAIL.
- IF A TEMPORARY CROSSING IS REQUIRED, UTILIZE TIMBER MAT.
- STONE APPROACHES WILL BE REQUIRED ON BOTH SIDES AND THE BOARDS WILL HAVE NO GAPS. GEOTEXTILE SHALL BE UNDERLAIN OR OVERLAIN AND SIDE BOARDS WILL BE INSTALLED ALONG THE PERIMETER OF THE MAT.
- INSTALL SEWER MAIN PIPES PER THE UTILITY DESIGN AND SPECIFICATIONS WITHIN THIS PLAN SET. INFORM THE ENGINEER IF FIELD CONDITIONS DIFFER FROM THE PLANS TO AN EXTENT REQUIRING MODIFICATIONS, OR CONSTRUCT GREENWAY BOARDWALK PER PLANS.
- BACKFILL TRENCHING OR BRING CROSSING TO GRADE, RETURN IMPACTED AREAS TO PRE-EXISTING GRADES AND PROMPTLY STABILIZE AREAS.
- MAINTENANCE PLAN:

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED 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.
- REMOVE SEDIMENT FROM BEHIND SILT FENCE WHEN DEPTH REACHES 6 INCHES AT THE FENCE. REPAIR SILT FENCE AS NECESSARY TO MAINTAIN A BARRIER.
- ALL SEEDED AREAS SHALL BE FERTILIZED, RE-SEED AS NECESSARY, AND MULCHED ACCORDING TO PROJECT SPECS TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE GROWTH.
- TOP DRESS CONSTRUCTION ENTRANCES WITH CLEAN STONE AS NECESSARY TO MAINTAIN PROPER FUNCTIONING.
- REFER TO SPECIFIC DEVICE DETAILS FOR ADDITIONAL MAINTENANCE REQUIREMENTS.

ATTENTION CONTRACTORS

The **Construction Contractor** responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for **contacting the Public Utilities Department** at (919) 996-4540 at least **twenty four hours** prior to beginning any of their construction.

Failure to notify both **City Departments** in advance of beginning construction, will result in the issuance of **monetary fines**, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for **Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite**, or any other **Violation of City of Raleigh Standards** will result in a **Fine and Possible Exclusion** from future work in the **City of Raleigh**.

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



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DATE

09/17/2021

DRAWN BY

R. WINGATE

DESIGNED BY

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CHECKED BY

P. BARBEAU

SCALE

AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
EROSION CONTROL-STAGE 2 STREAM CROSSINGS

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