

NOTES:

- SKIMMER IS TO BE A SURFACE DRAINAGE DEVICE SUCH AS BAY SKIMMER OR APPROVED DEVICE.
- SKIMMER SHOULD BE TO LEVEL OF WATER HEIGHT IN TEMPORARY BASIN OR TO FLOOR SKIMMER CLEAR.
- HOSE ATTACHED TO SKIMMER TO HELP KEEP SKIMMER CLEAR.
- SKIMMER SHALL BE 2" SKIMMER WITH 2" HOSE OR 1" HOSE AS MANUFACTURED BY J.D. HANCOCK & CO., INC. (336) 688-4275.

REVISIONS:

| # | DATE | DESCRIPTION |
|---|-----------|-----------------------------|
| 1 | 11-MAY-23 | ISSUED FOR PERMIT REVIEW |
| 2 | 11-MAY-23 | REVISED FOR REVIEW COMMENTS |
| 3 | 11-MAY-23 | REVISED FOR REVIEW COMMENTS |

EROSION CONTROL - PH. 1

WALLBROOK ROADWAY IMPROVEMENTS
VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)
 Town of Rolesville Project No. CID 23-04
 US 401 Business / S. Main Street & Virginia Water Drive
 Wake Forest Township, Town of Rolesville, Wake County, North Carolina

NC License: PA 139

ARK CONSULTING GROUP PLLC
 ENGINEERS & PLANNERS

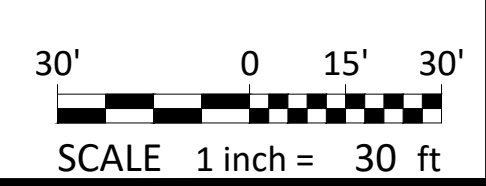
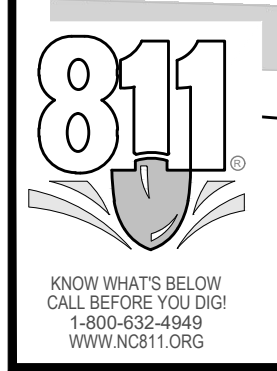
2755-B Charles Blvd
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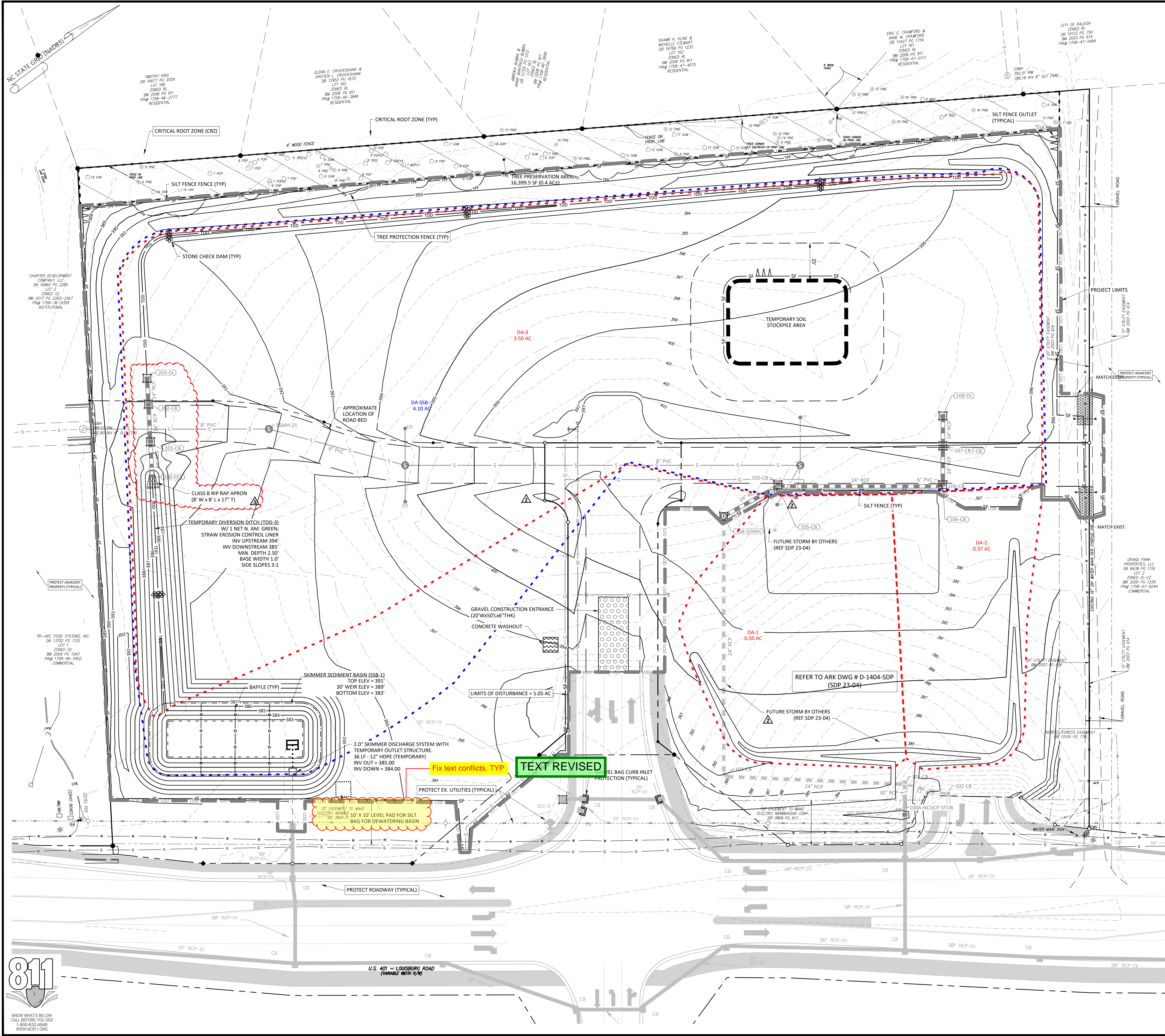
Professional Engineer
 C. F. FAGUNDI
 3/1/2024

Project Manager: BCF
 Drawn By: DLC/TGN
 Checked By: TGN
 Project Number: 22049
 Drawing Number: D-1404-CID

C1.1

Date: May 1, 2023



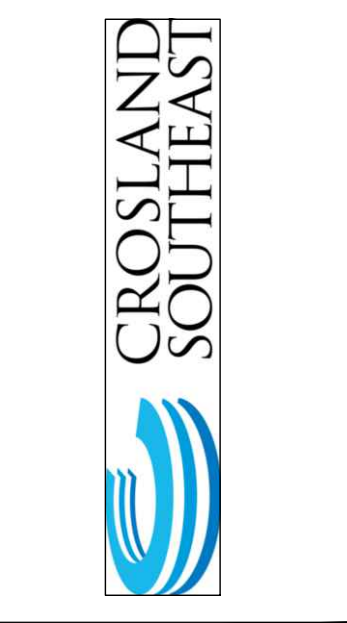


| STRUCTURE TABLE | | | | |
|-----------------|--------|-------------------------------------|--------------------------|-----------------------|
| ID | TOP | IN | OUT | DESC |
| 100-DI | 390.70 | | | Drop Inlet |
| 100A-NCDOT STUB | 385.95 | 383.00 (101-CB) | | U-6241 Project Tie-in |
| 101-CB | 394.11 | 383.27 (103-CB) 390.32 (102-CB) | 383.07 (100A-NCDOT STUB) | Catch Basin |
| 102-CB | 393.73 | | 390.90 (101-CB) | Catch Basin |
| 103-CB | 395.26 | 384.38 (104-SDMH) | 384.18 (101-CB) | Catch Basin |
| 104-SDMH | 397.42 | 385.88 (105-CB) 389.57 (104A-CO) | 385.68 (103-CB) | 48 in MH |
| 105-CB | 397.54 | 386.39 (106-CB) | 386.19 (104-SDMH) | Catch Basin |
| 106-CB | 397.03 | 387.42 (107-CB) 392.75 (106A-CO) | 387.22 (105-CB) | Catch Basin |
| 106A-CO | 397.17 | | 392.83 (106-CB) | CO |
| 107-CB | 397.03 | 387.83 (108-DI) | 387.63 (106-CB) | Catch Basin |
| 108-DI | 396.74 | | 387.97 (107-CB) | Drop Inlet |
| 200-FES | 387.99 | 385.66 (201-CB) | | Flared End Section |
| 201-CB | 389.58 | 385.77 (202-CB) | 385.77 (200-FES) | Catch Basin |
| 202-CB | 390.00 | 385.90 (203-DI) | 385.90 (201-CB) | Catch Basin |
| 203-DI | 390.17 | | 385.99 (202-CB) | Drop Inlet |

Rip Rap Aprons

| Outlet | Pad Pad Pad Pad Pad | | | | | Class |
|---------|---------------------|------------|-----------|-------------|------------|-------|
| | Size (in) | Entry (ft) | Exit (ft) | Length (ft) | Depth (in) | |
| 200-FES | 24 | 4 | 8 | 8 | 17 | B |

- Final Drawing -
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 3. 11-MAY-23 REVISED FOR PERMIT COMMENTS
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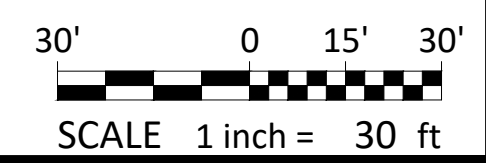


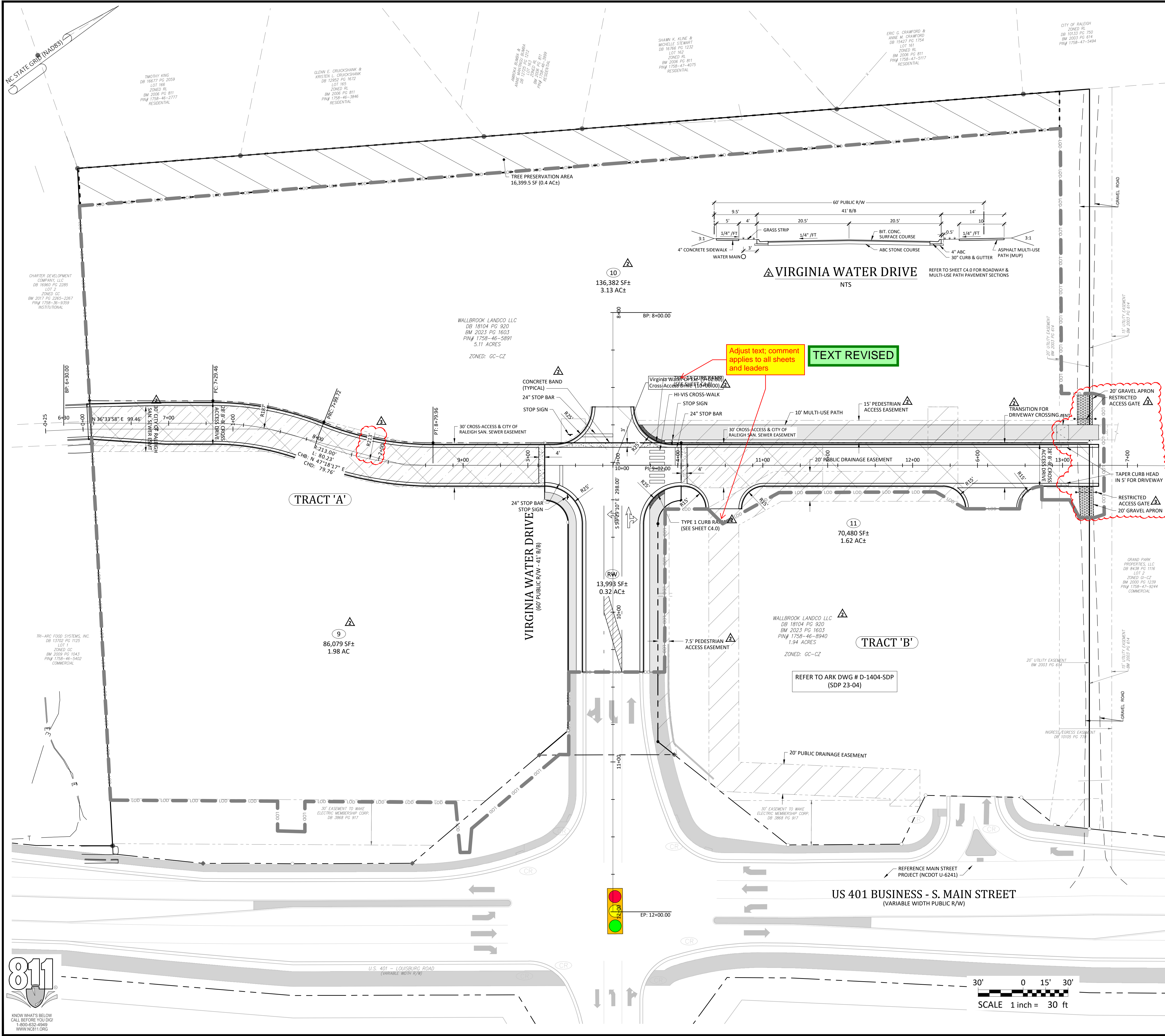
EROSION CONTROL PLAN - PH. 2
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Project Manager: BCF
 Drawn By: DLC/TGN
 Checked By: TGN
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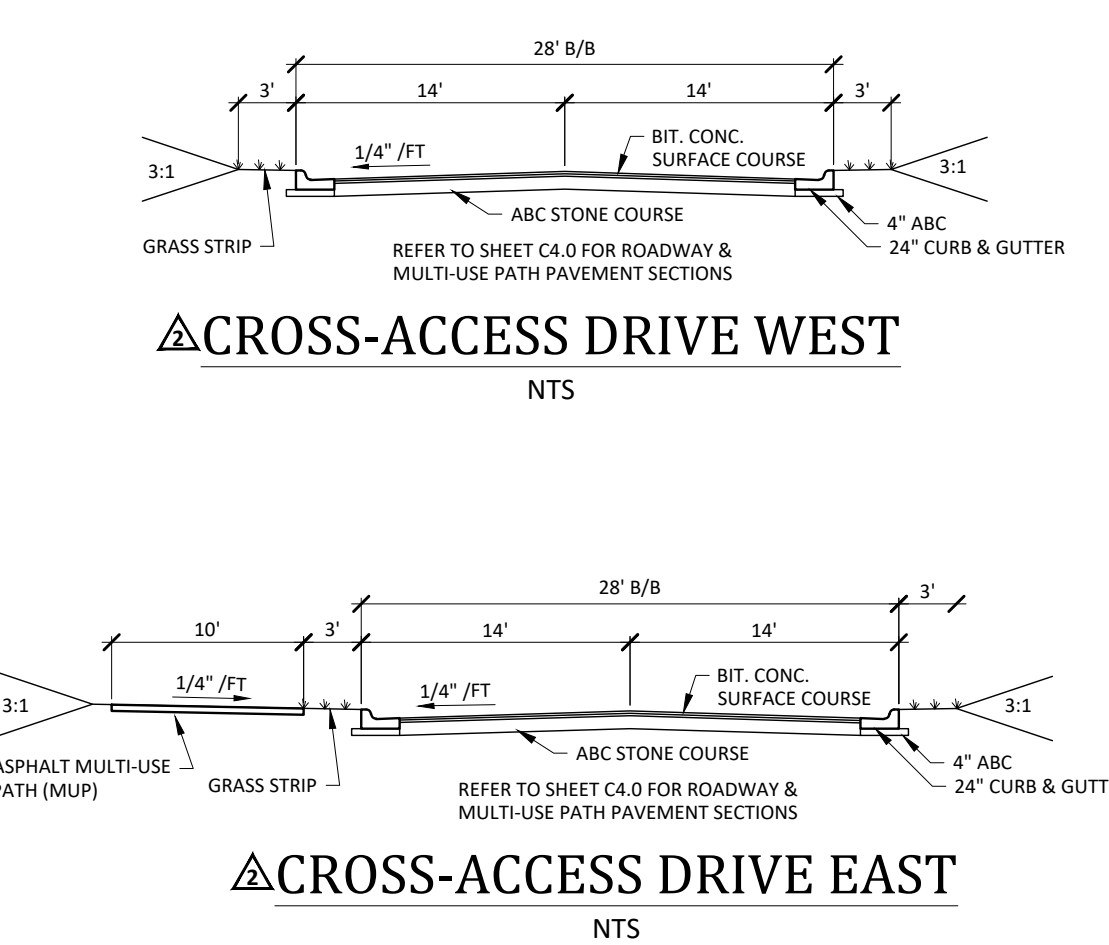


- General Notes:**
- THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:
 - ALTA/NSPS LAND TITLE SURVEY, PREPARED BY JOHNSON, MIRMIRAN & THOMPSON FOR WALLBROOK LANDCO, LLC, DATED REVISED MARCH 28, 2020
 - "REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION - 7 ELEVEN AT WALLBROOK" PREPARED BY NVS ENGINEERS AND CONSULTANTS, INC., DATED JULY 11, 2022
 - "REVISED WALLBROOK DEVELOPMENT TRAFFIC IMPACT ANALYSIS" PREPARED BY STANTEC CONSULTING SERVICES, INC., DATED AUGUST 11, 2020
 - ALL ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE OR THE REQUIREMENTS OF THE JURISDICTION WHERE THIS PROJECT IS TO BE CONSTRUCTED.
 - THIS PROPERTY IS LOCATED IN FLOOD ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON NATIONAL FLOOD INSURANCE RATE MAP (FIRM) 3720175800K, EFFECTIVE DATE: JULY 19, 2022.
 - PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.
 - THE OWNER / CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE REQUIREMENTS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES HAVING JURISDICTION OVER THIS PROJECT.
 - THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE PART OF THE REQUIRED CONSTRUCTION DOCUMENTS, AND, IN CASE OF CONFLICT, SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DISCREPANCY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.
 - THESE PLANS ARE BASED ON INFORMATION PROVIDED TO ARK CONSULTING GROUP, PLLC BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARK CONSULTING GROUP, PLLC IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER ON-SITE FEATURES.
 - ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS AND GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO THE GIVING OF SUCH NOTIFICATION AND THE ENGINEER'S WRITTEN AUTHORIZATION OF SUCH ADDITIONAL WORK.
 - CONTRACTOR SHALL REFER TO THE ARCHITECTURAL / BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY / EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.
 - PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE SITE PLAN AND LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER OF ANY DISCREPANCIES.
 - THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, CURB & GUTTER. CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY SHALL RESTORE SUCH CONNECTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE EXISTING CONDITIONS, AND IN CONFORMANCE WITH APPLICABLE CODES. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
 - THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, NOR IS THE ENGINEER RESPONSIBLE FOR ANY CONFLICTS OR SCOPE REVISIONS WHICH RESULT FROM THE SAME. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

Impervious Area Calculations

SITE LIMITED TO 85% IMPERVIOUS AREA AS ACCOUNTED FOR IN THE WALLBROOK STORMWATER MASTER PLAN

| | |
|--|----------|
| PROPOSED TRANSPORTATION IMPERVIOUS AREA: | 9583 SF |
| PROPOSED TOTAL IMPERVIOUS AREA: | 9583 SF |
| TOTAL SITE AREA: | 13999 SF |
| ALLOWABLE IMPERVIOUS AREA (85%): | 11848 SF |
| PROPOSED IMPERVIOUS PERCENTAGE: | 68.75 % |



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| 2 | 11/04/23 | REVISED PER TOR REVIEW COMMENTS |
| 3 | 11/04/23 | REVISED PER TOR REVIEW COMMENTS |

CROSLAND SOUTHEAST

LAYOUT & SIGNAGE-STRIPING PLAN

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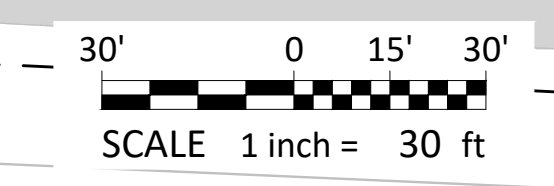
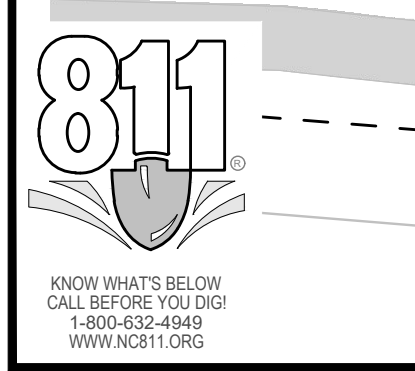
ARK CONSULTING GROUP PLLC
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Professional Engineer Seal: ARK CONSULTING GROUP PLLC, License No. 8817, State of North Carolina, Exp. 12/31/2024.

Project Manager: BCF
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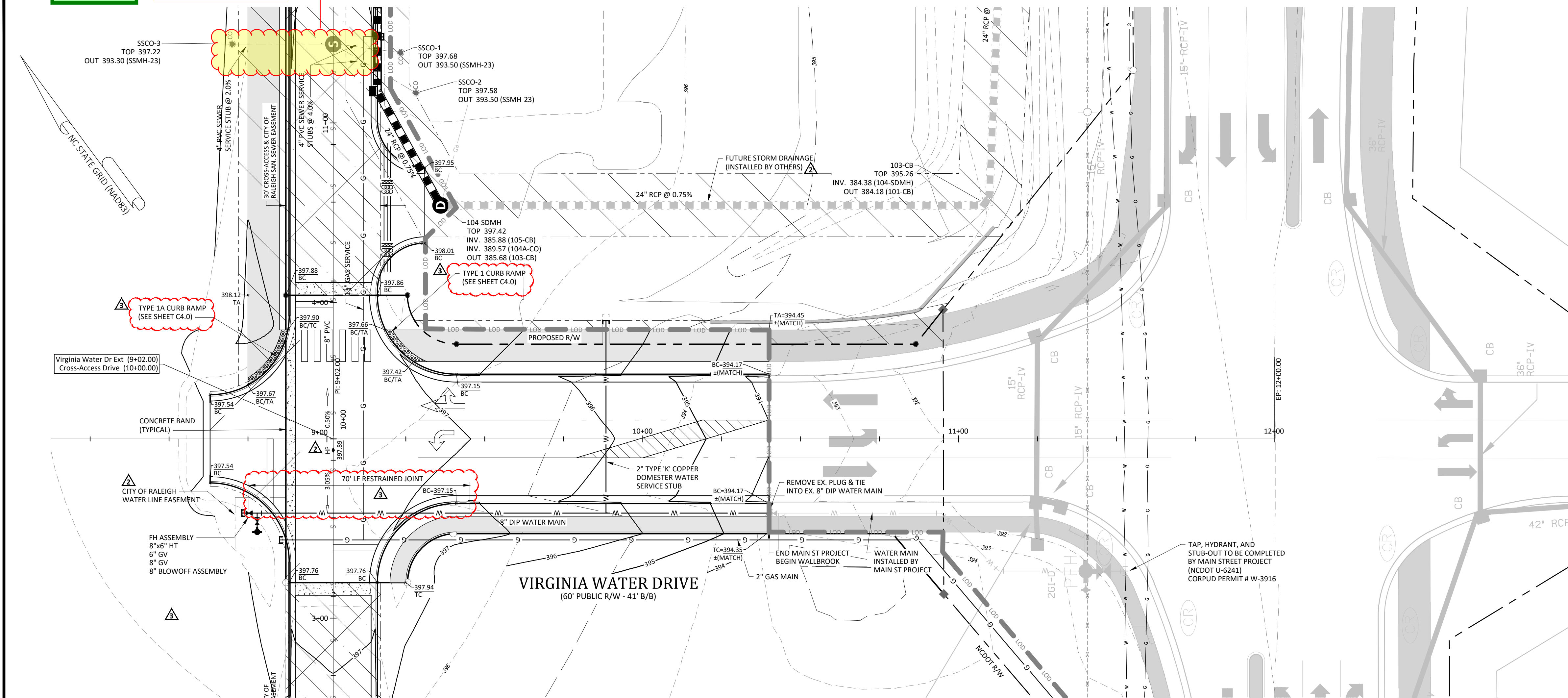
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Date: May 1, 2023



LEADERS REVISED

Fix Leaders TYP. A number of them throughout the set are off slightly.



Grading Notes:

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REFERENCED IN THIS PLAN SET.
2. SITE CONTRACTOR TO GRADE ALL AREAS WITHIN THE LIMITS OF DISTURBANCE FROM BUILDING TO PROPERTY LINES AND TO EDGE OF PAVEMENT ON STREET SIDES, INCLUDING ROW.
3. TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.
4. TOP SOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS. PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES DURING CONSTRUCTION.
5. TILL TOP SOIL TO A DEPTH OF 4" MINIMUM AND REMOVE ALL ROCKS LARGER THAN 1" MEASURED IN LARGEST DIRECTION.
6. GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING.
7. ALL GRADED AREAS TO RECEIVE SEED OR SO, TOP SOIL, STRAW AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
8. INSTALL TEMPORARY TURF REINFORCEMENT MATTING ON ALL SLOPES STEEPER THAN 3:1. MATTING SHALL BE CONTECH LANDLOK C2 OR EQUAL.
9. REFER TO CIVIL DETAILS FOR PAVEMENT IN PARKING AND DRIVE AREAS.
10. ALL SIDEWALKS SHALL BE CONSTRUCTED OF 3,500 PSI CONCRETE AND SHALL HAVE TOOLED CONTROL JOINTS PER THE JOINT SPACING REFERENCED ON THE PLAN.
11. MATERIALS SELECTED FOR USE AS STRUCTURAL FILL SHALL BE FREE OF VEGETABLE MATTER, WASTE CONSTRUCTION DEBRIS, AND OTHER DELETERIOUS MATERIALS. THE MATERIAL SHALL NOT CONTAIN ROCKS HAVING A DIAMETER OVER 3 INCHES.
12. SOILS REPRESENTED BY THEIR USCS GROUP SYMBOLS WILL TYPICALLY BE SUITABLE FOR USE AS STRUCTURAL FILL (ML), (CL), (SM), AND (SC).
13. THE FOLLOWING SOILS ARE CONSIDERED SUITABLE IN AREAS WHERE A MINIMUM THICKNESS OF 3' OF LOW PERMEABILITY SOILS CAN BE USED AS COVER: (SW), (SP), (SP-SM), AND (SP-SC).
14. THE FOLLOWING SOILS ARE CONSIDERED SUITABLE IN AREAS WHERE A MINIMUM THICKNESS OF 3' OF NON-EXPANSIVE SOILS CAN BE USED AS COVER: (MH) AND (CH).
15. THE FOLLOWING SOIL TYPES ARE CONSIDERED UNSUITABLE: (OL), (OH), AND (Pt).
16. ALL STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). ADDITIONALLY, THE IN-PLACE MAXIMUM DRY DENSITY OF STRUCTURAL FILL SHOULD BE NO LESS THAN 90 PCF.
17. THE UPPER 12" OF BUILDING FLOOR SLAB SUBGRADES SHALL BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).
18. FILL PLACEMENT IN PAVEMENT AREAS SHALL BE PERFORMED IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS.
19. SUITABLE FILL MATERIAL SHALL BE PLACED IN 8" LIFTS AND COMPACTED BY MECHANICAL MEANS. PROOFROLLING WITH RUBBER TIRE, HEAVILY LOADED VEHICLES MAY BE DESIRABLE AT INTERVALS OF APPROXIMATELY 2 VERTICAL FEET TO BIND THE LIFTS TOGETHER AND TO SEAL THE SURFACE OF EACH COMPACTED AREA.
20. ALL BUILDING, SIDEWALK, AND PAVEMENT SUB-GRADE COMPACTIONS SHALL BE INTERMEDIATELY TESTED THROUGHOUT FILL PLACEMENT OPERATIONS AND APPROVED BY THE GEOTECHNICAL ENGINEER. ALL SUB-GRADES SHALL BE THOROUGHLY PROOF-ROLLED TO IDENTIFY SMALL LOCALIZED AREAS OF UNSUITABLE SOILS. ALL UNSUITABLE SOILS SHALL BE UNDERCUT, REPLACED WITH STRUCTURAL FILL, AND COMPACTED AS DESCRIBED ABOVE.
21. WHERE HORIZONTAL SEWER OR WATER LINES ARE REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNSUITABLE DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
22. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & 5-49).
23. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY CORPUD PRIOR TO CONSTRUCTION.
24. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO CORPUD.
25. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
26. IT IS THE DEVELOPERS RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY CORPUD. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
27. INSTALL PVC WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2' X 2' WATERLINE EASEMENT IMMEDIATELY ADJACENT.
28. INSTALL PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
29. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
30. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWR, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS PRIOR TO CONSTRUCTION.
31. NCDOT /RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
32. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
33. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NC. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

CORPUD Standard Utility Notes:

1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK)
2. UTILITY SEPARATION REQUIREMENTS:
 - a) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN UNPROTECTED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATER SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
 - b) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR.
 - c) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
 - d) 5.0' MINIMUM VERTICAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNSUITABLE DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
 - e) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & 5-49).
 - f) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY CORPUD PRIOR TO CONSTRUCTION.
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ATTENTION CONTRACTORS

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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 # S-_____

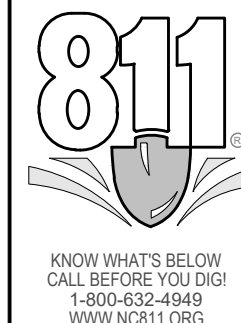
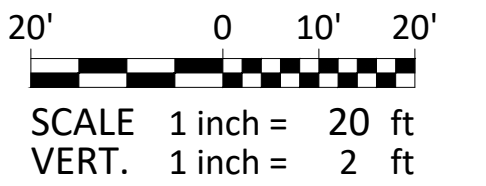
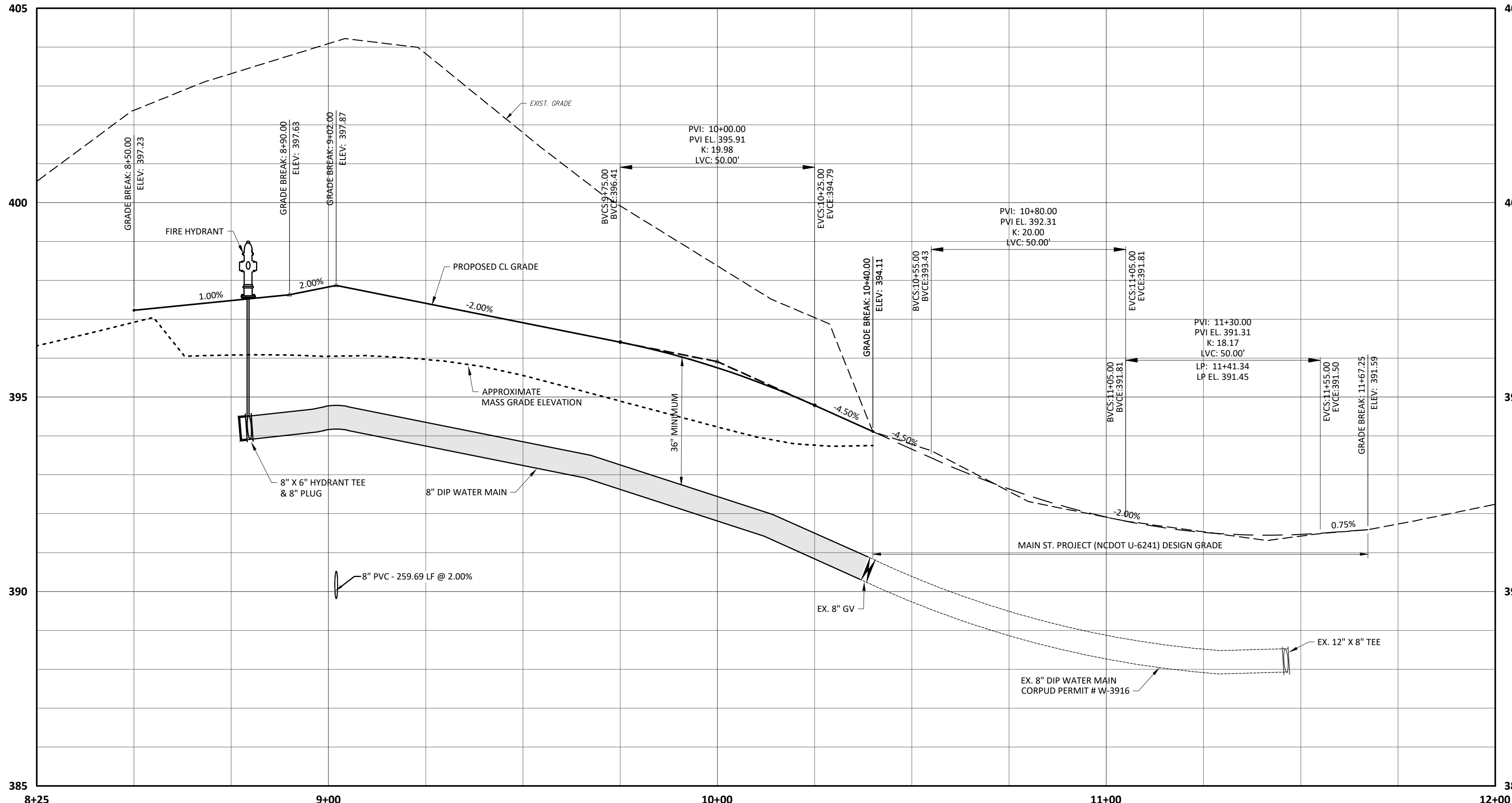
The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # W-_____

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION
 Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

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 relied upon once issued. Any modification to this approval once issued will invalidate this approval.

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



- Final Drawing - Issued for Permit Review Purposes Only

| # | DATE | DESCRIPTION |
|---|----------|---------------------------------|
| 1 | 11/04/23 | REVISED PER TOR REVIEW COMMENTS |
| 2 | 11/04/23 | REVISED PER TOR REVIEW COMMENTS |
| 3 | 11/04/23 | REVISED PER TOR REVIEW COMMENTS |



VIRGINIA WATER DRIVE EXT - PLAN-PROFILE
 WALLBROOK ROADWAY IMPROVEMENTS
 VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)
 Town of Rolesville Project No. CID 23-04
 US 401 Business / S. Main Street & Virginia Water Drive
 Wake Forest Township, Town of Rolesville, Wake County, North Carolina

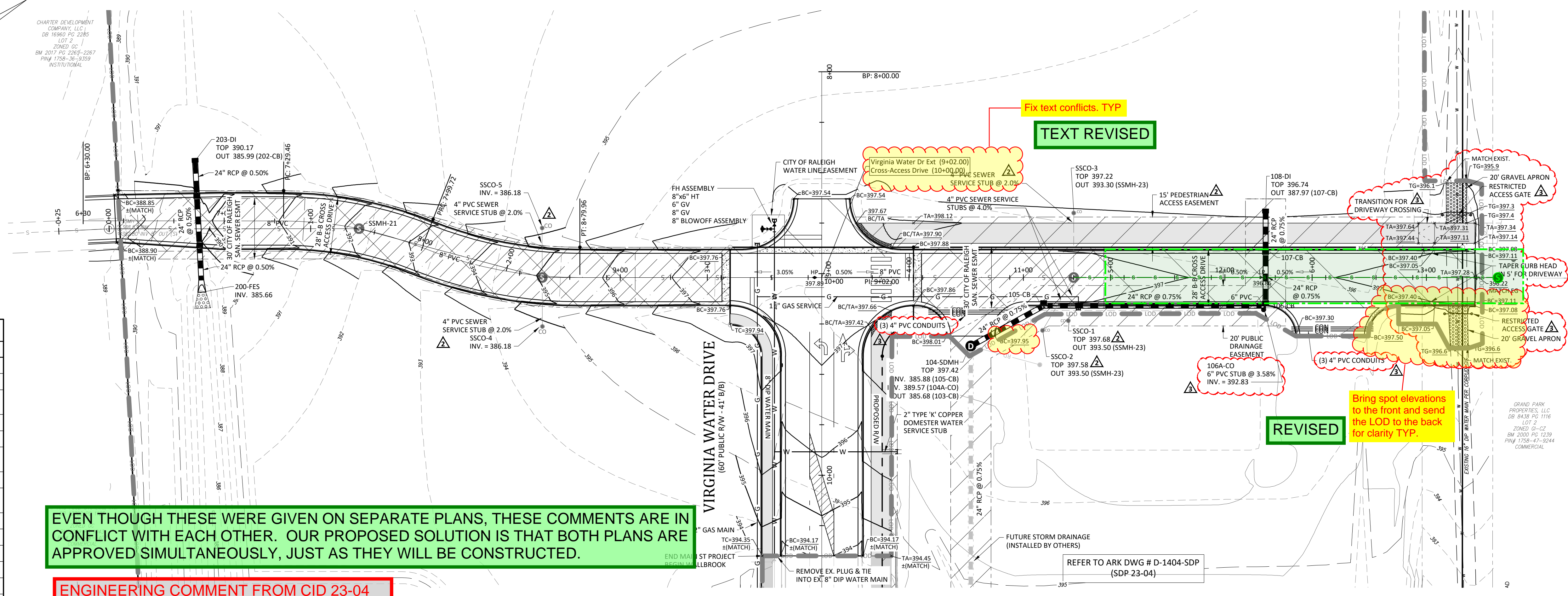


| | |
|------------------|------------|
| Project Manager: | BCF |
| Drawn By: | DLC/TGN |
| Checked By: | TGN |
| Project Number: | 22049 |
| Drawing Number: | D-1404-CID |

C3.0

Date: May 1, 2023

NC STATE GRID (NAD83)
 CHARTER DEVELOPMENT COMPANY, LLC
 DB 16961 PG 2285
 LOT 7
 ZONED CC-C2
 BM 2017 PC 2005-2287
 PM 1708-16-9359
 INSTRUMENTAL



| STRUCTURE TABLE | | | | |
|------------------|--------|-------------------------------------|---------------------------|-----------------------|
| ID | TOP | IN | OUT | DESC |
| 100-DI | 390.70 | | | Drop Inlet |
| 100A-NC DOT STUB | 385.95 | 383.00 (101-CB) | | U-6241 Project Tie-In |
| 101-CB | 394.11 | 383.27 (103-CB) 390.32 (102-CB) | 383.07 (100A-NC DOT STUB) | Catch Basin |
| 102-CB | 393.73 | | 390.90 (101-CB) | Catch Basin |
| 103-CB | 395.26 | 384.38 (104-SDMH) | 384.18 (101-CB) | Catch Basin |
| 104-SDMH | 397.42 | 385.88 (105-CB) 389.57 (104A-CO) | 385.68 (103-CB) | 48 in MH |
| 105-CB | 397.54 | 386.39 (106-CB) | 386.19 (104-SDMH) | Catch Basin |
| 106-CB | 397.03 | 387.42 (107-CB) 392.75 (106A-CO) | 387.22 (105-CB) | Catch Basin |
| 106A-CO | 397.17 | | 392.83 (106-CB) | CO |
| 107-CB | 397.03 | 387.83 (108-DI) | 387.63 (106-CB) | Catch Basin |
| 108-DI | 396.74 | | 387.97 (107-CB) | Drop Inlet |
| 200-FES | 387.99 | 385.66 (201-CB) | | Flared End Section |
| 201-CB | 389.58 | 385.77 (202-CB) | 385.77 (200-FES) | Catch Basin |
| 202-CB | 390.00 | 385.90 (203-DI) | 385.90 (201-CB) | Catch Basin |
| 203-DI | 390.17 | | 385.99 (202-CB) | Drop Inlet |

EVEN THOUGH THESE WERE GIVEN ON SEPARATE PLANS, THESE COMMENTS ARE IN CONFLICT WITH EACH OTHER. OUR PROPOSED SOLUTION IS THAT BOTH PLANS ARE APPROVED SIMULTANEOUSLY, JUST AS THEY WILL BE CONSTRUCTED.

ENGINEERING COMMENT FROM CID 23-04

3. FYI – This plan should not achieve Final approval until – or in conjunction with – SDP-23-04 (7-Eleven) achieving final approval because the storm sewer for this project connects (to the 7-Eleven site/project) downstream.

| | | |
|-------------------------------------|--|----|
| COR Public Utilities Tim Beasley | Is sanitary sewer and CORSE being extended to the parcel to the east? CID-23-04 should be approved prior to SDP-23-04. | td |
| COMMENT FROM SDP 23-04 | VZ Status was: No Further Comments – but CID 23-4 should be approved first and the plat to create the lot should be recorded prior to approval of SDP-23-04. | ✓ |

COR Public Utilities
Tim Beasley

Is sanitary sewer and CORSE being extended to the parcel to the east?

SANITARY SEWER & CORSE EXTENDED PLAN EAST APPROXIMATELY AS SHOWN ABOVE

SITE PERMITTING APPROVAL

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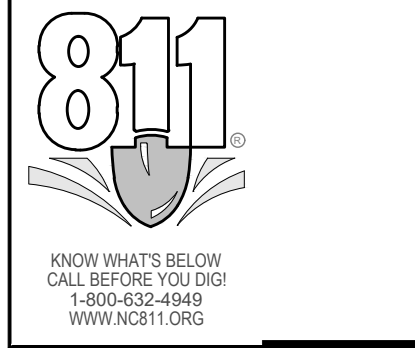
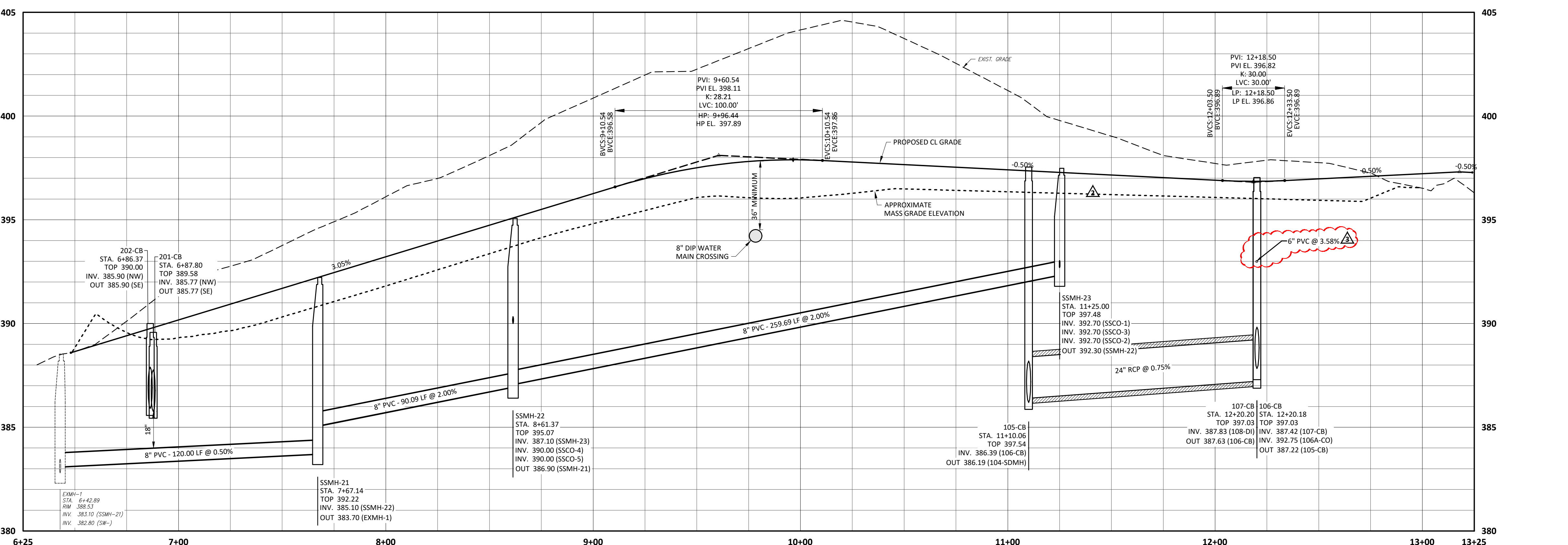
City of Raleigh Development Approval
City of Raleigh Review Officer

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30' 0 15' 30'
 SCALE 1 inch = 30 ft
 VERT. 1 inch = 3 ft

- Final Drawing -
 Issued for Permit
 Review Purposes Only
 Reviewer: [Name]
 Date: [Date]

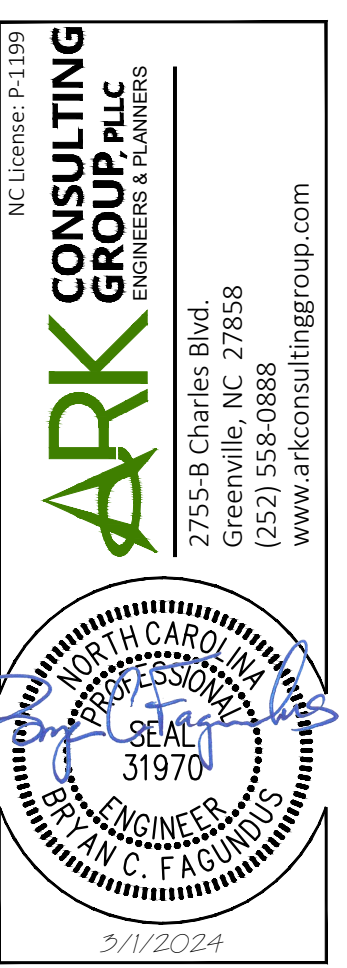


ACCESS DRIVE - PLAN-PROFILE

WALLBROOK ROADWAY IMPROVEMENTS

VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)

Town of Rolesville Project No. CID 23-04
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C3.1

Date: May 1, 2023