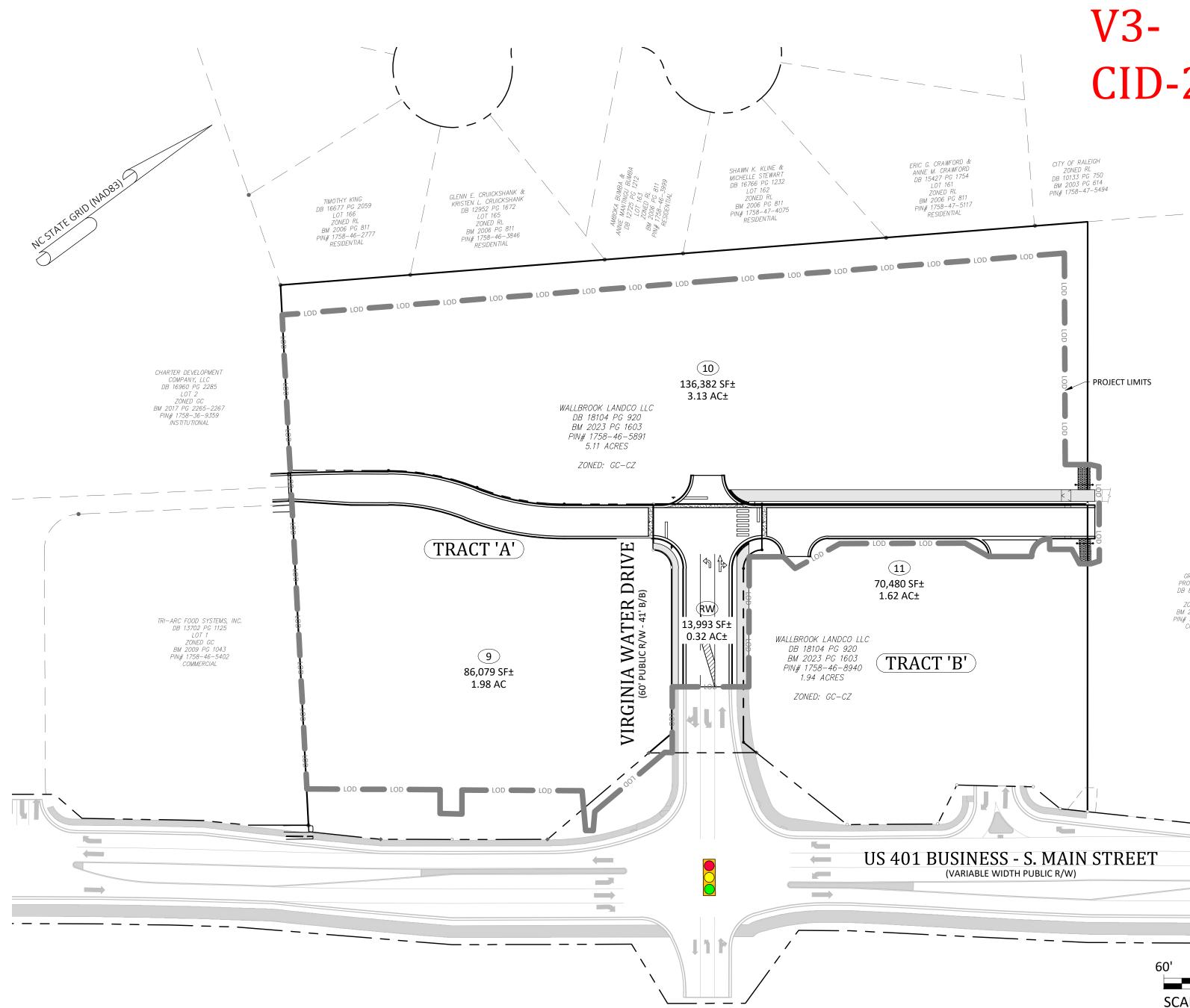
# WALLBROOK ROADWAY IMPROV VIRGINIA WATER DRIVE EXTENSION (SERVIN

EXISTING	nd	PROPOSED
		FROPOSED
• o	= FOUND MONUMENT AS NOTED = SET IRON PIN	
	= NCGS MONUMENT	
° P	= DIMENSION POINT (NOTHING SET) = PROPERTY LINE	
_	= RIGHT OF WAY	
C&G	= CURB AND GUTTER	
DI	= CABLE TV PEDESTAL = DROP INLET	
ELEC	= ELECTRIC BOX	
_	= ELECTRIC METER	
	= FIBER OPTIC	FH
୍ଦି FH ଢା GV	= FIRE HYDRANT = GAS VALVE = HAND BOX = LIGHT POLE = POWER POLE	-
HBX	= HAND BOX	
-¢-LP	= LIGHT POLE	
о <b>РР</b> 	= POWER POLE = GUY WIRE	
RCP	= REINFORCED CONCRETE PIPE	
S.F.	= SQUARE FEET (AREA)	
	= SIGN = TRAFFIC SIGNAL POLE	-
⊙ (SS)	= SANITARY SEWER MANHOLE	S
⊙ (§) (§) (§)	= SANITARY SEWER FORCE MAIN VA	LVE
SD	= STORM DRAIN MANHOLE	D
TEL	= STORM DRAIN CATCH BASIN = TELEPHONE PEDESTAL	
TRAF	= TRAFFIC BOX	
WATER	= WATER BOX	-
WM WM	= WATER METER = WATER MANHOLE	•
w w	= WATER VALVE	M
WELL	= WELL	
X-WALK O	= PEDESTRIAN X-WALK POLE	
— E — — — — — — — — — — — — — — — — — —	= ELECTRIC LINE = SANITARY SEWER FORCE MAIN	
	= FIBER OPTIC LINE	
	= GAS LINE = OVERHEAD ELECTRIC LINE	——— G ————
– — S — –	= SANITARY SEWER LINE	<u> </u>
	= TELEPHONE LINE = CABLE TV LINE	
	= WATER LINE	— w —
	= FIRE LINE	F
	= 8"Ø WATER LINE = 12"Ø WATER LINE	8''W
	= SPILL CURB	
		X
- — — RIP —	= RIPARIAN BUFFER = TREELINE	$\sim$
- 50	= MAJOR CONTOUR $(5')$	
	= MINOR CONTOUR (1')	
	= TREE PROTECTION FENCE	TPF
	= SILT FENCE	SF
	= CONCRETE SIDEWALK	
		$\langle \langle \langle \rangle \rangle \langle \rangle \rangle$
	= ACCESS AND UTILITY EASEMENT	
		· + + + + +
	= TREE PRESERVATION AREA	+ $+$ $+$ $+$ $+$
	· · · · · · · · · · · · · · · · · · ·	$\cdot$ + + + + + + + + + + + + + + + + + + +
	= OPEN SPACE AREA	
\$	= TDD DRAINAGE AREA	

# CONSTRUCTION INFRASTRUCTURE DRAWING - CID 23-04

US-401 Business / S. Main Street ~ Town of Rolesville ~ Wake County ~ North Carolina



### **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.

### 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-

The City of Raleigh consents to the connection to its public sewer system and extensions of the private sewer collection 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-

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,



1-800-632-4949

WWW.NC811.ORG

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 edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval City of Raleigh Review Officer

### General Notes:

- 1. CONTACT NORTH CAROLINA ONE-CALL CENTER, INC. (NC ONE-CALL) AT 811 TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING
- DEVELOPMENT ORDINANCE AND THE TOWN OF ROLESVILLE DEVELOPMENT STANDARDS. 3. CONTRACTOR SHALL NOTIFY NCDOT AND TOWN OF ROLESVILLE PUBLIC WORKS, STREET
- LOCATED WITHIN PUBLIC STORM DRAINAGE EASEMENTS OR RIGHT-OF-WAY. 4. THIS PROPERTY IS LOCATED WITHIN ZONE 'X', AREAS DETERMINED TO BE OUTSIDE THE 0.2% MAP (FIRM) 3720175800K, EFFECTIVE DATE JULY 19, 2022.
- 5. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 6. ELECTRIC AND TELEPHONE UTILITIES SHALL BE INSTALLED UNDERGROUND. 7. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS. 8. REFER TO M.E.P. PLANS FOR COORDINATION OF BUILDING UTILITY SERVICES.
- 10. THIS PROJECT DISTURBS MORE THAN 1 ACRE. EROSION & SEDIMENTATION CONTROL PLAN
- APPROVAL IS REQUIRED.

- 2. ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE TOWN OF ROLESVILLE LAND

MAINTENANCE DIVISION 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS

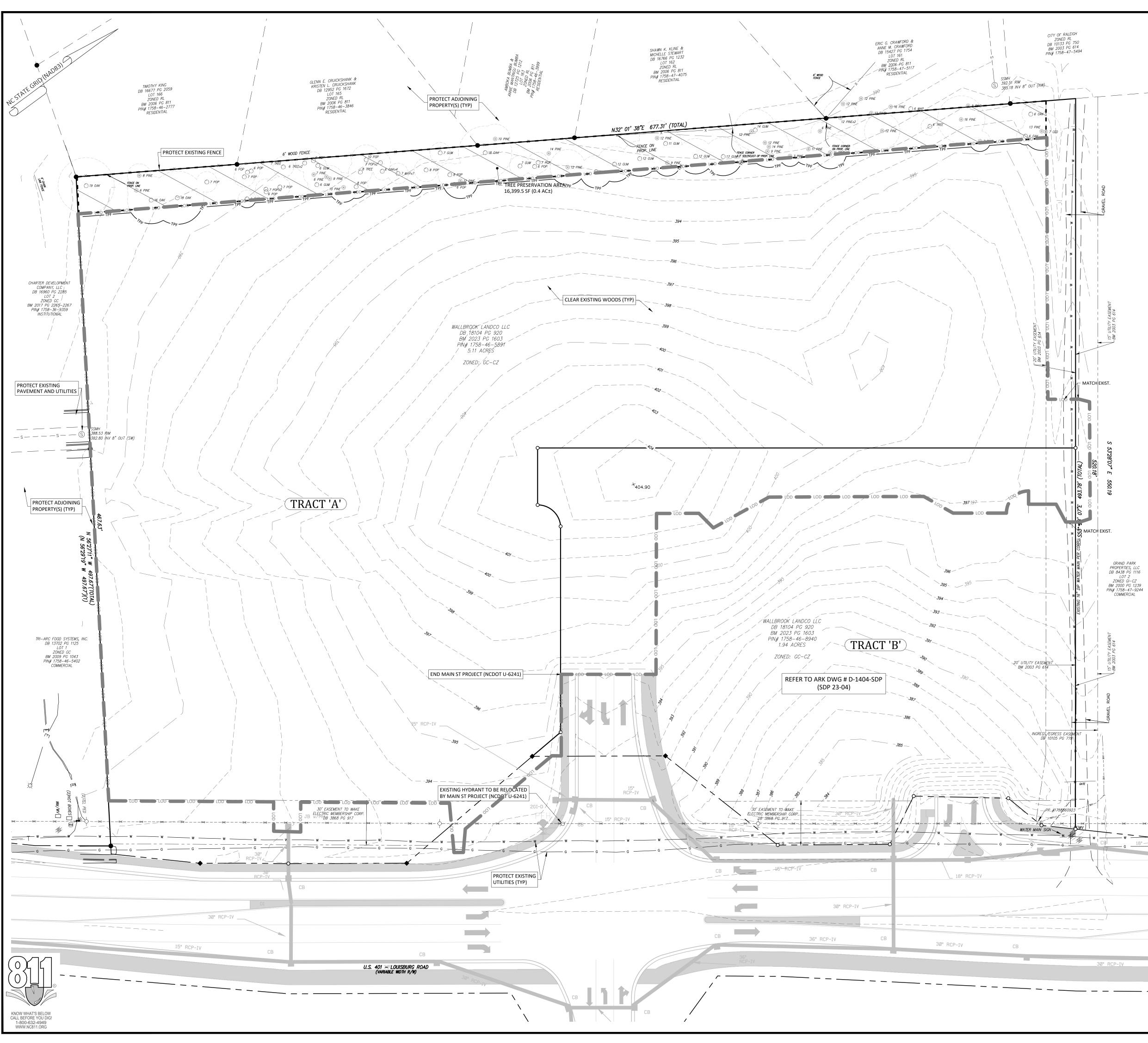
ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM RATE

AND MAY NOT INCLUDE ALL MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR

9. THIS PROJECT DISTURBS MORE THAN  $\frac{1}{2}$  ACRE FOR PURPOSES OF A COMMERCIAL DEVELOPMENT. PROJECT IS SUBJECT TO THE TOWN OF ROLESVILLE STORMWATER MANAGEMENT ORDINANCE. STORMWATER MANAGEMENT PLAN APPROVAL BY THE TOWN OF ROLESVILLE IS REQUIRED.

- 11. NCDOT DRIVEWAY PERMIT APPROVAL IS COMPLETED FOR THIS PROJECT. REFERENCE NCDOT PERMIT NUMBER D051-092-22-00049.
- 12. REFUSE COLLECTION SHALL BE PROVIDED BY PRIVATE SERVICE FOR COMMERCIAL DEVELOPMENT.
- 13. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED. 14. SITE SHALL MEET ALL RELATED ACCESSIBILITY CODE REQUIREMENTS.
- 15. BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON WAS PREPARED BY
- JOHNSON, MIRMIRAN & THOMPSON. REFERENCE IS MADE TO THE SURVEY ENTITLED ALTA/NSPS LAND TITLE SURVEY PREPARED FOR WALLBROOK LANDCO, LLC DATED 3/28/2020, AND ATTACHED TO THIS DRAWING SET FOR REFERENCE.
- 16. UNDERGROUND UTILITIES PLOTTED IN PART FROM ACTUAL FIELD LOCATION OF ABOVE GROUND FEATURES AND IN PART FROM MAPS ON RECORD. ACTUAL LOCATIONS MAY VARY. SURVEYOR AND ENGINEER CANNOT PROVIDE ACCURACY OF INFORMATION TAKEN FROM RECORD DATA. OTHER UTILITIES MAY EXIST. CONTRACTOR SHOULD CONTACT NORTH CAROLINA ONE-CALL CENTER (NC ONE-CALL) BY DIALING 811 TO HAVE UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
- 17. THE ENGINEER MAKES NO GUARANTEE THAT THE UTILITIES SHOWN ARE COMPRISED OF ALL SUCH UTILITIES IN THE AREA OF SURVEY EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE ENGINEER DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE ENGINEER HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND UTILITIES.

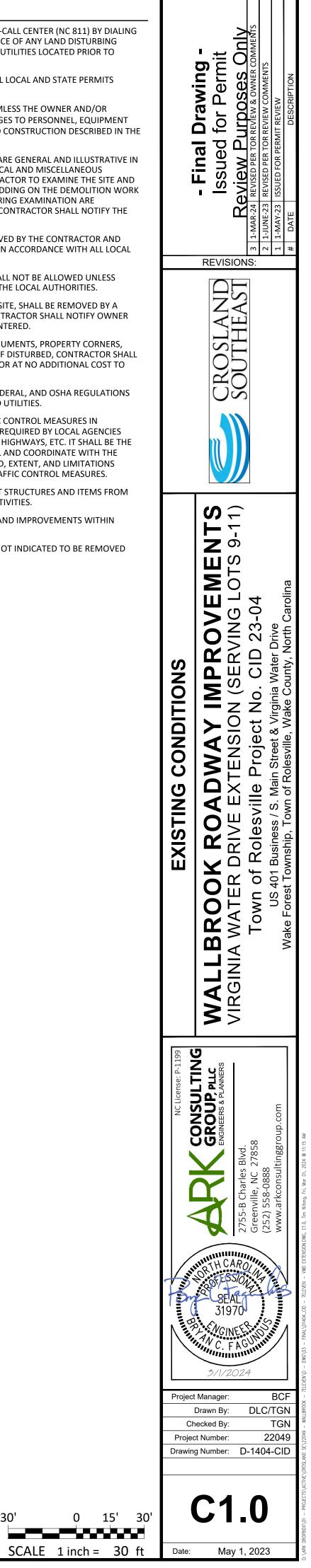
VEMEN GLOTS 9 4		HUNN BURLINGTON MILLS RD. SOUTHINMUST. SOUTHINGTON MILLS RD. SOUTHINGTON MIL	- Final Drawing Final Drawing Final Drawing Sued for Permit BSued for Permit - I-MAR-24 REVISED PER TOR REVIEW & OWNER COMMENTS - 1-JUNE-23 REVISED PER TOR REVIEW COMMENTS - 1-MAY-23 ISSUED FOR PERMIT REVIEW - DATE - DESCRIPTION - DESCRIPTION
V3- CID-23-04	Site Data Wake County Pin: Real estate id: Current Zoning: Total Acreage in Site: Acreage in Project limits: Acreage in Public R/W: Total disturbed Acreage: Linear Feet in Public Streets: Watershed: River Basin: Current Use: PROPOSED USE: Building Lot Coverage:	1758-46-5891         224130         GC-CZ         5.42 AC         5.04 AC         0.32 AC         5.05 AC         138 LF         Lower Neuse         Neuse         VACANT / WOODED         NON-RESIDENTIAL         0% EXIST	REVISIONS:
CRAND PARK PROJECT LIMITS	TOTAL SQ. FEET OF EXIST. IMPERV TOTAL SQ. FEET OF PROP. IMPERV DEVELOPMENT STANDARDS: REFERENCES:	VIOUS AREA: 9583 SF (R/W), 8276 SF (LOT 9), 3920 SF (LO LDO DB 18104, PG 920 BM 2023, PG 1603-1604 BM 1996, PG 187 Title ALL PLAN DITIONS TROL - PH. 1 TROL PLAN - PH. 2 TROL - PH. 3 TROL NOTES	Image: Content of the second strength of the second strengt of the second strength of the second strengtho
S. MAIN STREET UBLIC R/W) 60' 0 30' 60' SCALE 1 inch = 60 ft Town of Rolesville Development	Ark Consulting Group, PLLC 2755 Charles Blvd - Suite B Greenville, NC 27858 (252) 558-0888 Contact: Bryan Fagundus, PE bryan@arkconsultinggro	Wallbrook Landco, LLC 3 Keel St, Ste 2 Wrightsville Beach, NC 28480 (704) 621-6430 Contact: Austin Williams awilliams@csere.com ROSION CONTROL, STORMWATH ND FLOODPLAIN MANAGEMEN ND FLOODPLAIN MANAGEMEN APPROVED ROSION CONTROL S TORMWATER MGMT. S LOOD STUDY S ATE ENVIRONMENTAL CONSULTANT SIGNATURE	NC License: P-1199 NC License: P-1199 CONSULTING GROUP, PLLC GROUP, PLLC GROUP, PLLC ENGINEERS & PLANNERS OR SU ON 27858 ON SULTING CONSULTING

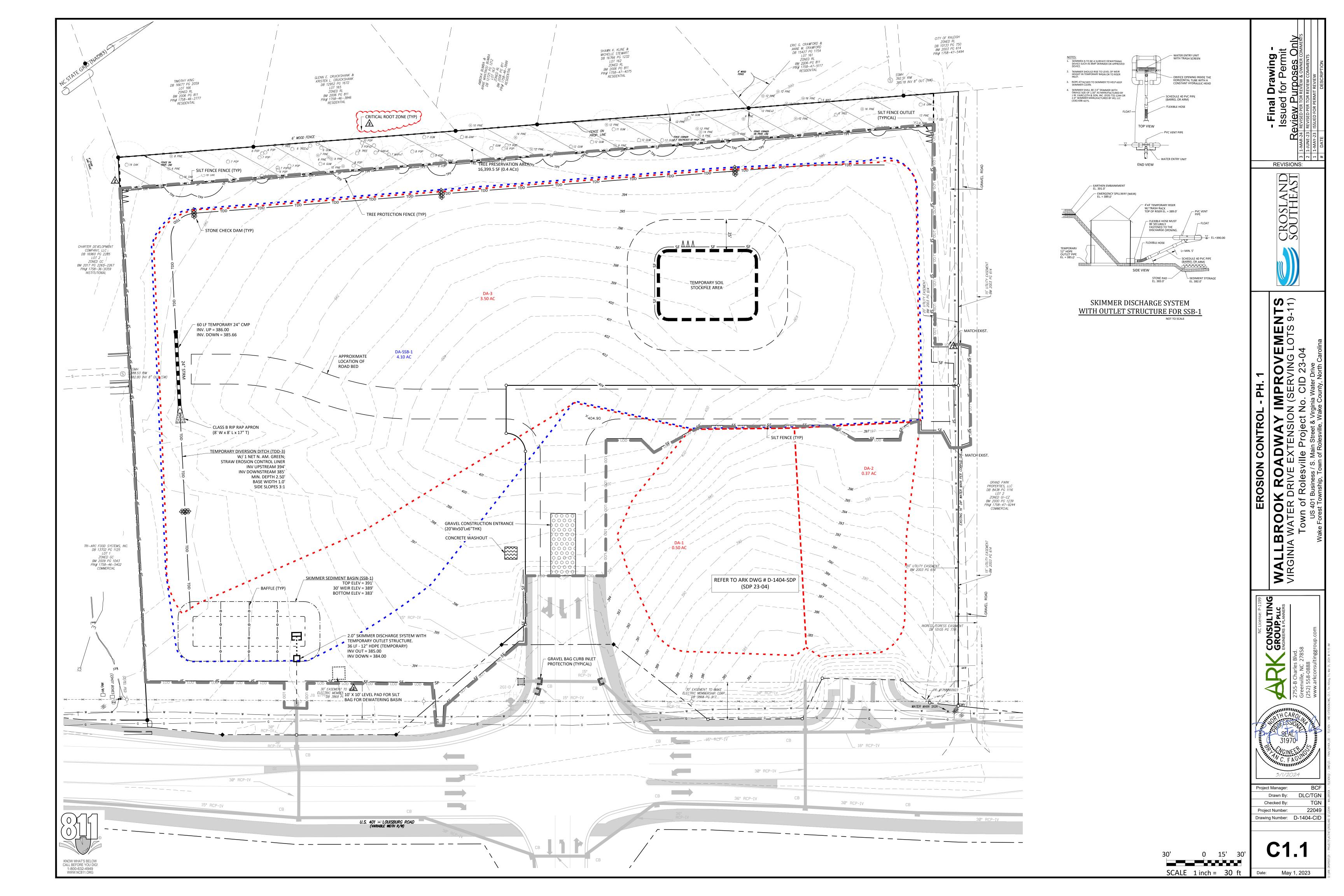


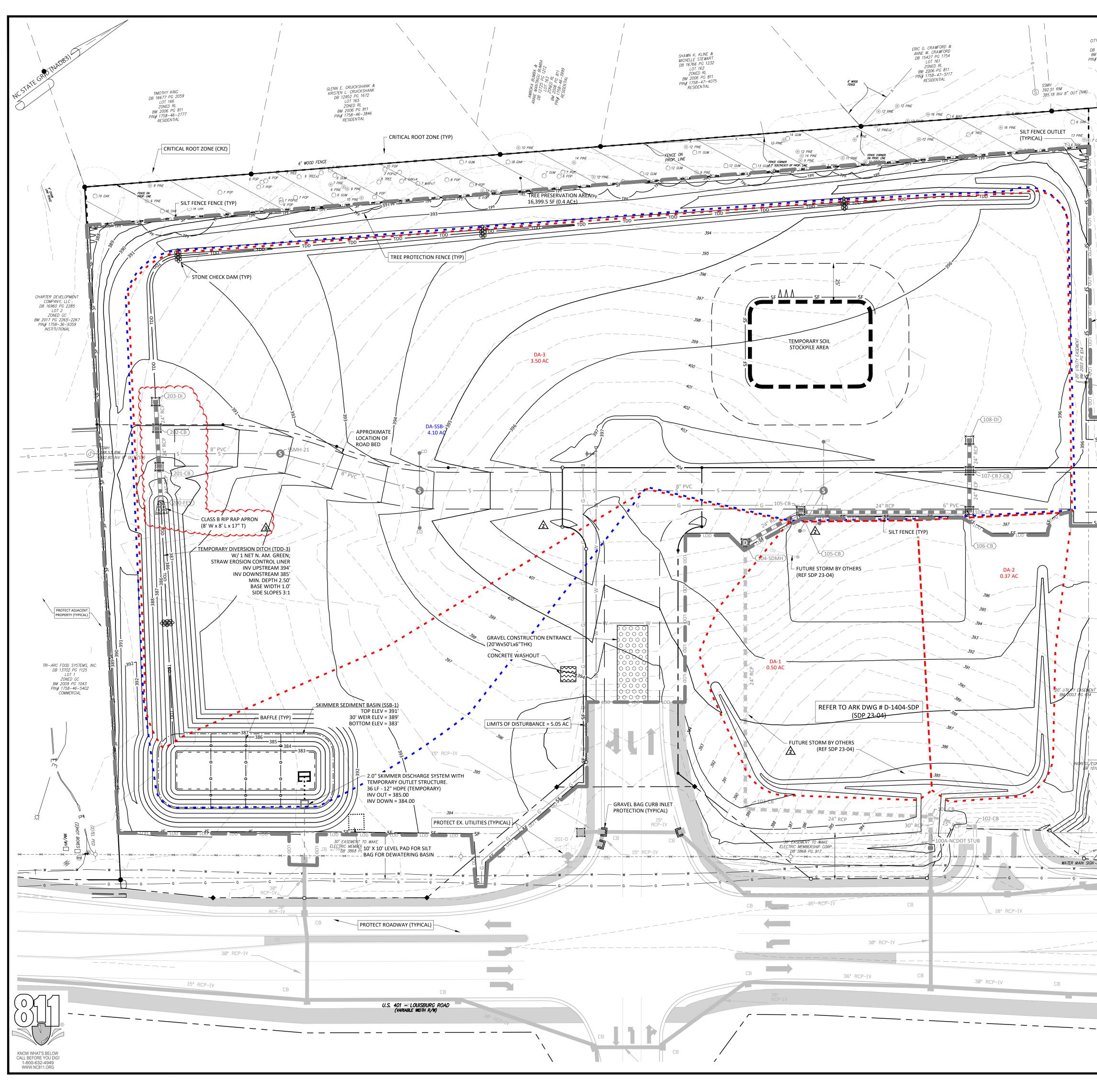
# **Demolition Notes:**

- 1. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE-CALL CENTER (NC 811) BY DIALING 811 OR 1-800-632-4949 AT LEAST 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY OR DIGGING AND HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- 3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- 4. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 5. ALL DEMOLITION WASTE AND DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- 6. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- 7. ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- 8. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- 9. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
- 10. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE NCDOT STANDARDS, AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH THE LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
- 11. CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION ACTIVITIES.
- 12. CONTRACTOR SHALL REMOVE EXISTING VEGETATION AND IMPROVEMENTS WITHIN LIMITS OF DISTURBANCE UNLESS NOTED OTHERWISE.
- 13. TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.

30'

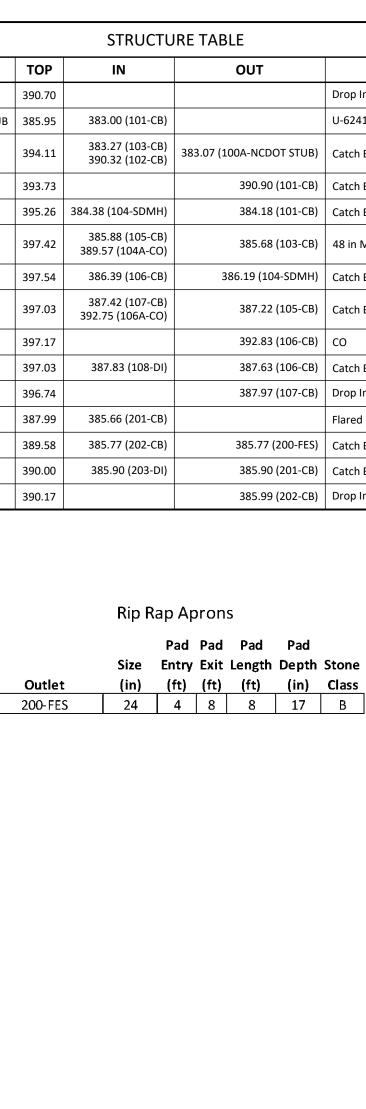






		STRUCTURE TABLE										
ID	ТОР	IN	OUT	DESC								
100-DI	390.70			Drop Inlet								
100A-NCDOT STUB	385.95	383.00 (101-CB)		U-6241 Project Tie-In								
101-CB	394.11	383.27 (103-CB) 390.32 (102-CB)	383.07 (100A-NCDOT STUB)	Catch Basin								
102-CB	393.73		390.90 (101-CB)	Catch Basin								
103-CB	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)	со								
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								

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





CONSULTING GROUP, PLLC ENGINEERS & PLANERS

Project Manager:

Checked By:

Project Number:

Date:

0 15' 30'

SCALE 1 inch = 30 ft

30'

NIV N

Drawing -

- Final Drawing Issued for Permi Review Purposes ( AAR-24 REVISED PER TOR REVIEW & OWNER CO

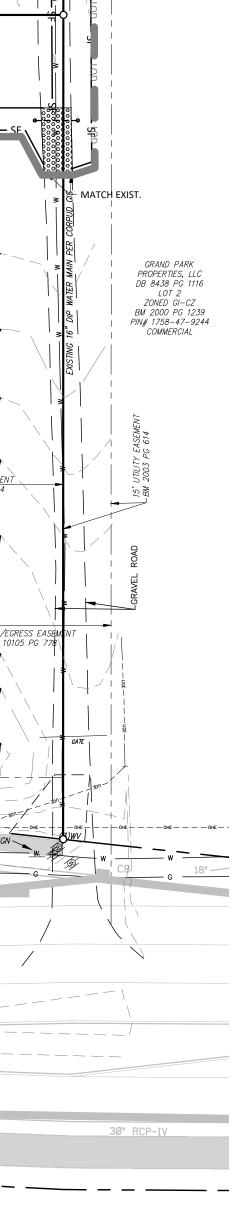
**REVISIONS**:

**CROSLAND** SOUTHEAST

AY IMPROVEMENTS SION (SERVING LOTS 9-11) lect No. CID 23-04

2

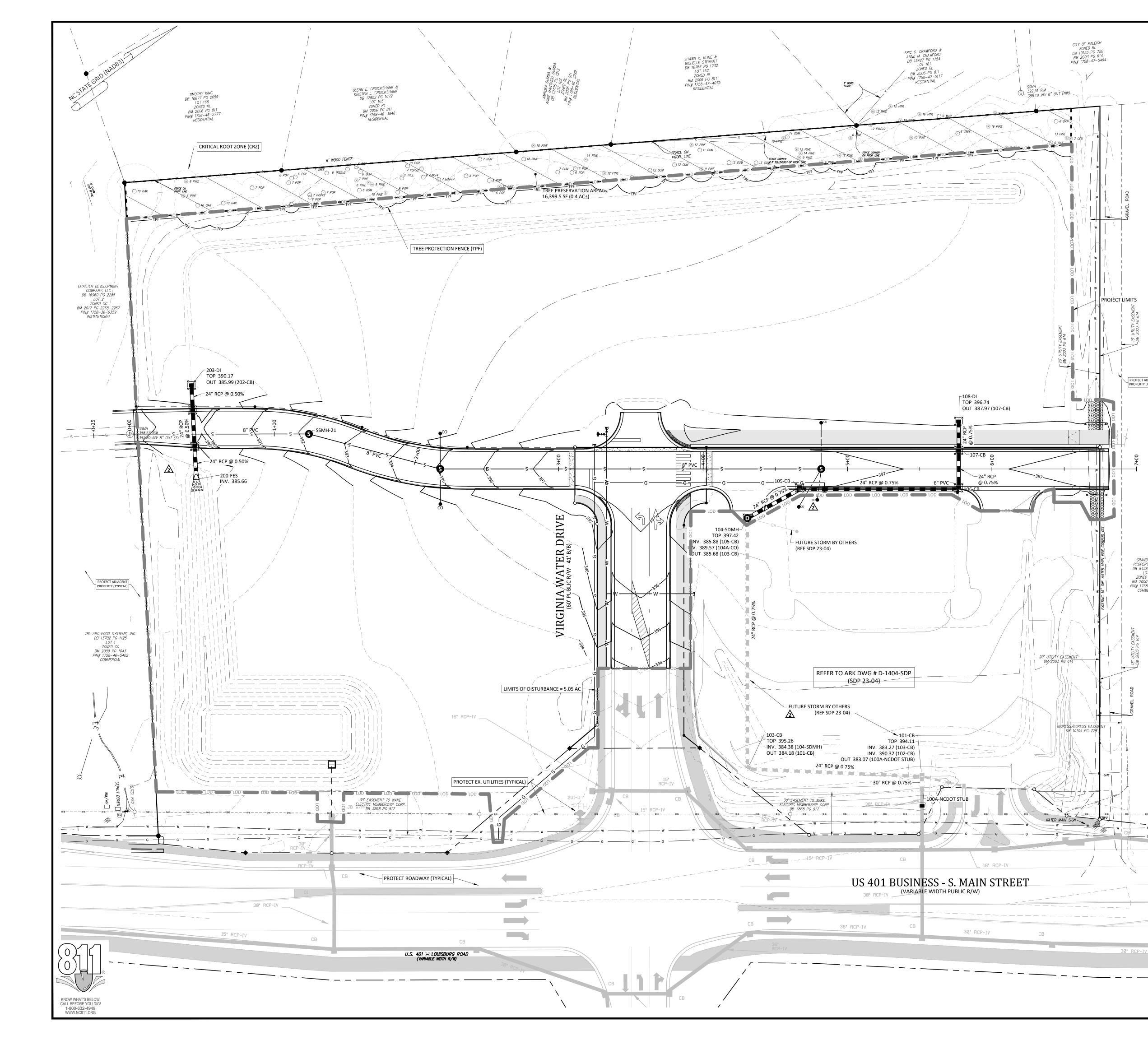
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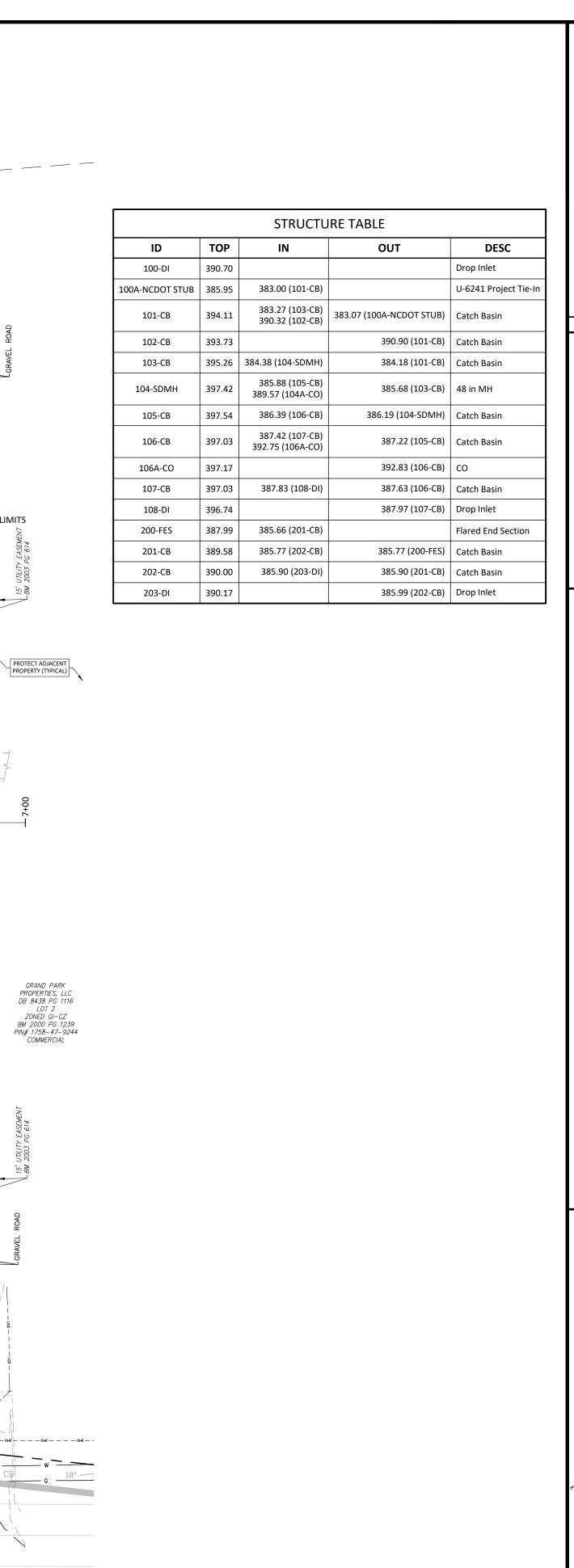


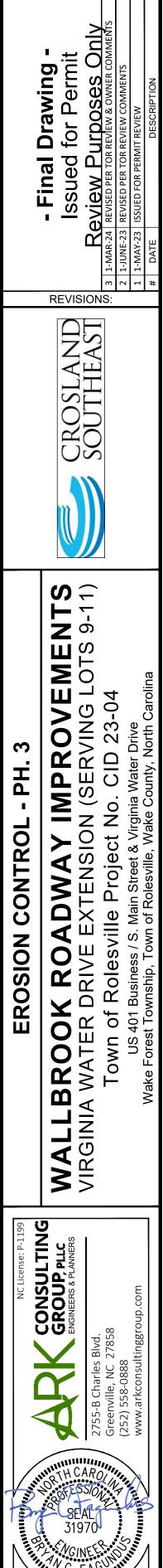
CITY OF RALEIGH ZONED RL DB 10133 PG 750 BM 2003 PG 614 PIN# 1758-47-5494

ROJECT LIMIT

MATCH EXIST OPERTY (TYPICAL)







BCF

TGN

22049

DLC/TGN

Project Manager:

Checked By:

Project Number:

Date:

0 15' 30'

SCALE 1 inch = 30 ft

30'

Drawn By:

Drawing Number: D-1404-CID

C1.3

May 1, 2023

	BILIZATION	
Re	quired Ground Stab	ilization Timeframes
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	s Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	<ul> <li>-7 days for slopes greater than 50' in length and with slopes steeper than 4:1</li> <li>-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones</li> <li>-10 days for Falls Lake Watershed</li> </ul>
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
practicable but in no case le activity. Temporary ground surface stable against accel	onger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION	hanent ground stabilization as soon as dar days after the last land disturbing be maintained in a manner to render the I permanent ground stabilization is achieved.
techniques in the table bel	ow:	
Temporary Stab	vered with straw • kifiers	Permanent Stabilzation Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil
<ul> <li>Temporary grass seed cov or other mulches and tack</li> <li>Hydroseeding</li> <li>Rolled erosion control pro without temporary grass</li> <li>Appropriately applied strational plastic sheeting</li> </ul>	oducts with or seed • aw or other mulch •	reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch

EQU	IIPMENT AND VEHICLE MAINTENANCE
1.	Maintain vehicles and equipment to prevent discharge of fluids.
2.	Provide drip pans under any stored equipment.
3.	Identify leaks and repair as soon as feasible, or remove leaking equipment from project.
4.	Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5.	Remove leaking vehicles and construction equipment from service until the prot has been corrected.
6.	Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products a recycling or disposal center that handles these materials.
1770	
1.	<b>R, BUILDING MATERIAL AND LAND CLEARING WASTE</b> Never bury or burn waste. Place litter and debris in approved waste containers.
1. 2.	Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3.	Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4.	Locate waste containers on areas that do not receive substantial amounts of runc from upland areas and does not drain directly to a storm drain, stream or wetland
5.	Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6.	Anchor all lightweight items in waste containers during times of high winds.
7.	Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8.	Dispose waste off-site at an approved disposal facility.
9.	On business days, clean up and dispose of waste in designated waste containers.
PAIN	IT AND OTHER LIQUID WASTE
1.	Do not dump paint and other liquid waste into storm drains, streams or wetland
2.	Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3.	Contain liquid wastes in a controlled area.
4.	Containment must be labeled, sized and placed appropriately for the needs of si
5.	Prevent the discharge of soaps, solvents, detergents and other liquid wastes fror construction sites.
-	TABLE TOILETS
1.	Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foc
	offset is not attainable, provide relocation of portable toilet behind silt fence or p
	on a gravel pad and surround with sand bags.
2.	Provide staking or anchoring of portable toilets during periods of high winds or ir foot traffic areas.
3.	Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and rep with properly operating unit.

### EARTHEN STOCKPILE MANAGEMENT

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

# NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

### PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

### SECTION B: RECORDKEEPING

1. E&SC Plan Documentation The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

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

### 2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the and available for agency inspectors at all times during normal business hours, unless the

- Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:
- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

SELF-INSPECTION, RECORDKEEPING AND REPORTING

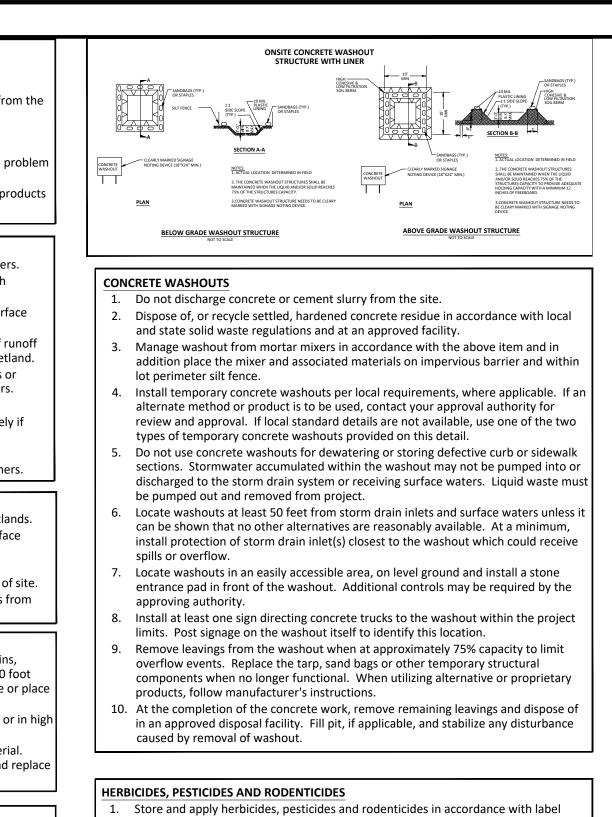
or surrounded by secondary containment structures.

### **SECTION A: SELF-INSPECTION**

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

PART I

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



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

### HAZARDOUS AND TOXIC WASTE

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

# **EFFECTIVE: 04/01/19**

### PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

### **SECTION C: REPORTING**

- 1. Occurrences that must be reported Permittees shall report the following occurrences:
- (a) Visible sediment deposition in a stream or wetland.

# (b) Oil spills if:

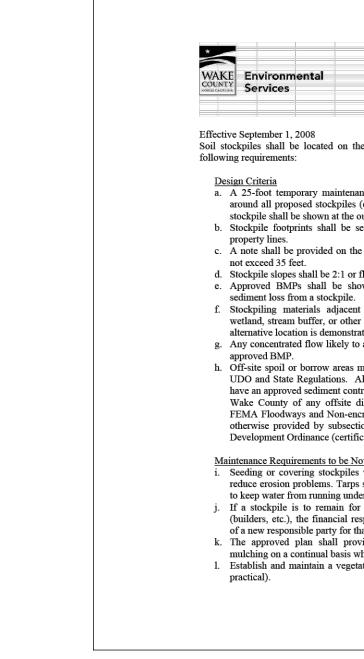
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
- (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (b) Anticipated bypasses and unanticipated bypasses.
- (c) Noncompliance with the conditions of this permit that may endanger health or the environment.

### 2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

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

# **EFFECTIVE: 04/01/19**



### Wake County Basin Removal Sequence:

- SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BAS FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOV.
- CONTACT NCDEQ RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PE ACTIVITY, SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CON THE EMAIL SHOULD INCLUDE: E&SC JURISDICTION: WAKE COUNTY, WAKE COUNTY PROJECT: N (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A) REAS C) DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEN FOR YOUR NDPES MONITORING DOCUMENTATION
- AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE TH WHICHEVER IS SOONER, REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
- 4. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IN
- 5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CO
- WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMO EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF C SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

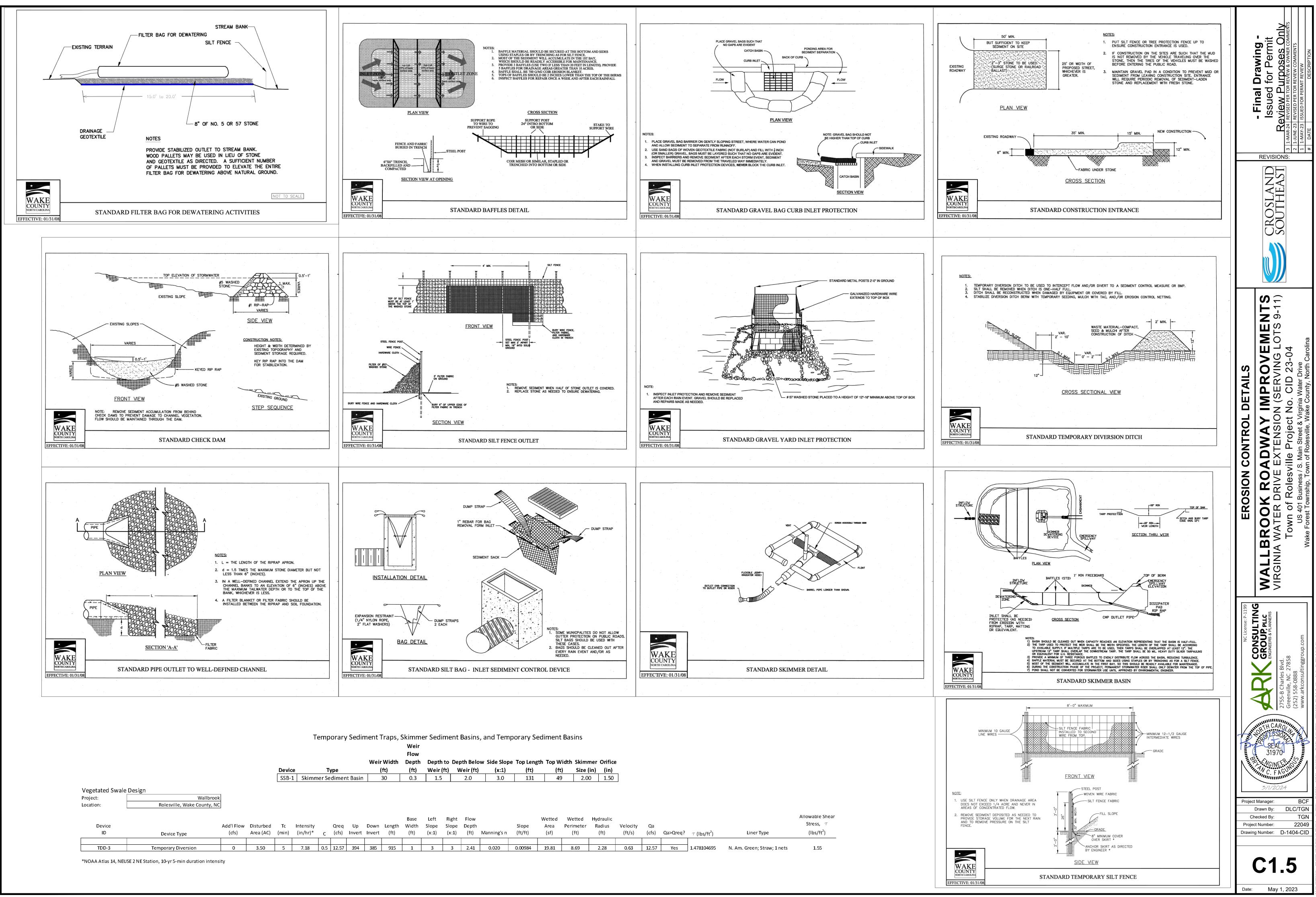
### **Erosion Control Provisions:**

- 1. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING WAKE COUNTY DATE THAT THE LAND DISTURBING ACTIVITY WILL BEGIN.
- 2. LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CON EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY THE ENGINEER.
- 3. SCHEDULING OF A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY WATERSHED N (919-819-8907) PRIOR TO INITIATING LAND DISTURBING ACTIVITIES IS REQUIRED. FOR INSPECT NOTICE IS REQUIRED.
- 4. INSTALL TREE PROTECTION FENCING AROUND ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBA
- 5. PROVIDE 20' X 50' X 6" STONE CONSTRUCTION ENTRANCES AS SHOWN ON PLAN.
- SEED OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO REST SLOPES WITHIN 7 DAYS OF COMPLETION OF ANY PHASE OF GRADING ON PERIMETER AREAS A OTHER AREAS SHALL BE STABILIZED WITHIN 14 DAYS.
- 7. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A MAJOR STORM EVENT. FAILURE TO KEEP ALL EROSION CONTROL DEVICES IN PROPER WORKING ORDER OR CIVIL PENALTIES UP TO \$5000.00 PER DAY OF VIOLATION.
- 8. THE ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IMPLEMENTATION PROVE TO BE INADEQUATE.
- 9. ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH LAWS, REGULATION AND RULES. IN ADDITION LOCAL CITY AND COUNTY ORDINANCES OR RULE DISTURBING ACTIVITY. APPROVAL BY THE COUNTY DOES NOT SUPERSEDE ANY OTHER PERMIT
- 10. PLEASE BE ADVISED OF THE RULES TO PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WAT RIVER BASINS. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER RESOURCES (DWR). APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVI (919) 791-4200.
- 11. ALL AREAS DOWNSTREAM OF TEMPORARY BASINS AND DITCHES ARE TO BE STABILIZED IMMEE

### **Construction Sequence:**

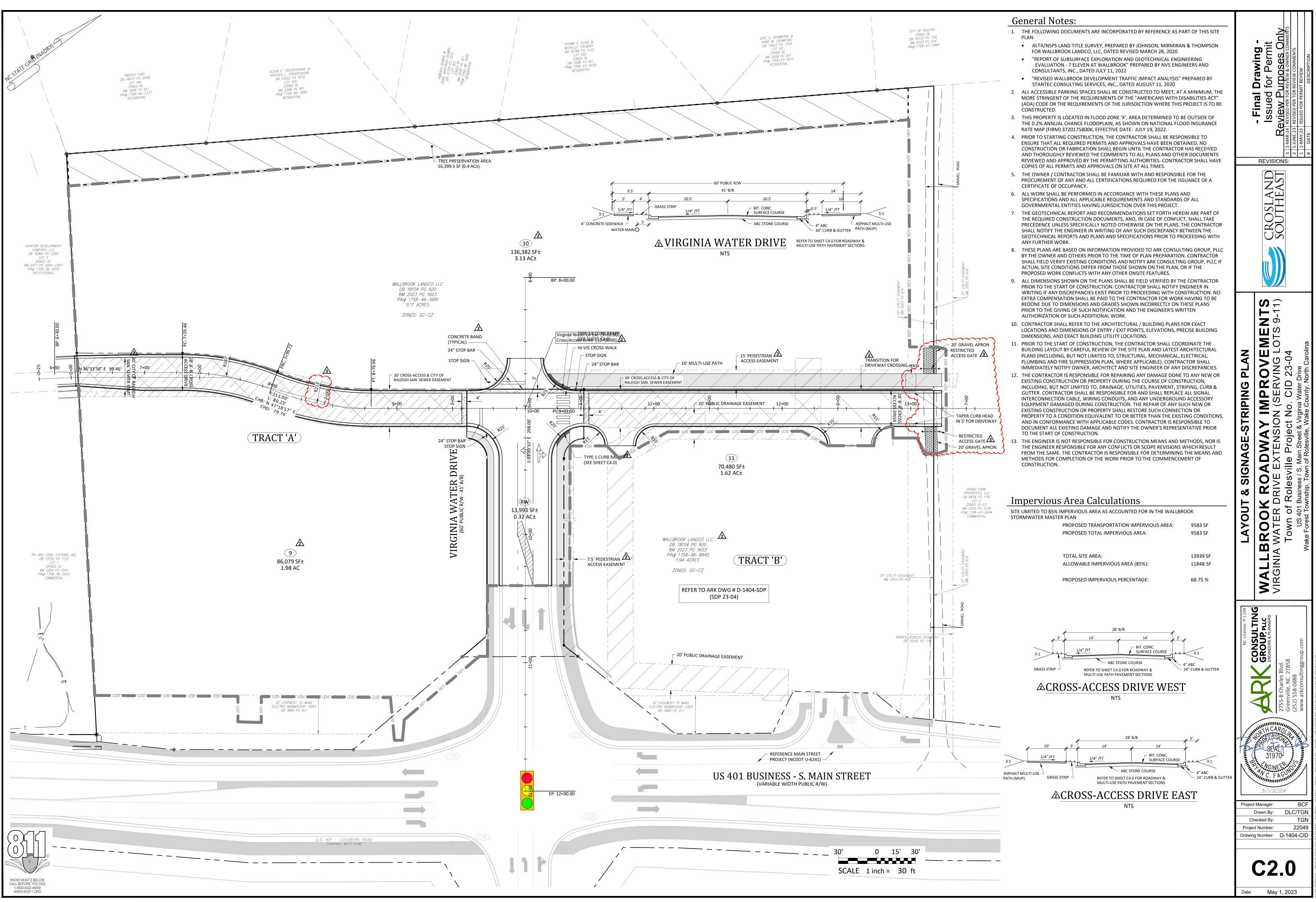
- 1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) DISTURBING ACTIVITIES OCCUR.
- 2. CALL WAKE COUNTY WATERSHED MANAGER JEEVAN NEUPANE AT (919) 819-8907 A MINIMU SCHEDULE A PRE-CONSTRUCTION MEETING AND FOR NOTIFICATION OF PROJECT START UP. ANY DEWATERING ON THE SITE SHALL BE DONE THROUGH A SILT BAG THAT IS CONSTANTLY
- 4. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, TREE PROTECTION FENCE, OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INS TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- 5. CALL WATERSHED MANAGER, JEEVAN NEUPANE FOR AN ONSITE INSPECTION TO OBTAIN A C 6. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE. INS
- SEDIMENT BASINS, ALONG WITH TEMPORARY DIVERSION DITCHES THAT SHALL BE INSTALLED POSSIBLE IS DIRECTED TO THE BASINS. 7. AS ROUGH GRADING CONTINUES, DEVICES SHALL BE MAINTAINED AND CLEANED OF SEDIME ABANDONED SHALL BE REMOVED AS FOLLOWS: DEWATER THROUGH SILT BAG, CLEAN SEDIN
- BASIN AND STABILIZE IMMEDIATELY. DEWATERING OPERATIONS THROUGH SILT BAGS SHALL 8. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, DITCH LINI AREAS PER GROUND STABILIZATION TIME FRAME.
- 9. WHEN ROUGH GRADING IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL V NEUPANE FOR INSPECTION.
- 10. IF SITE IS APPROVED, MAINTAIN TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ET RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH A NOW BE INSTALLED.
- 11. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL SITE INSPECTION BY THE WA NEUPANE. OBTAIN CERTIFICATE OF COMPLETION.

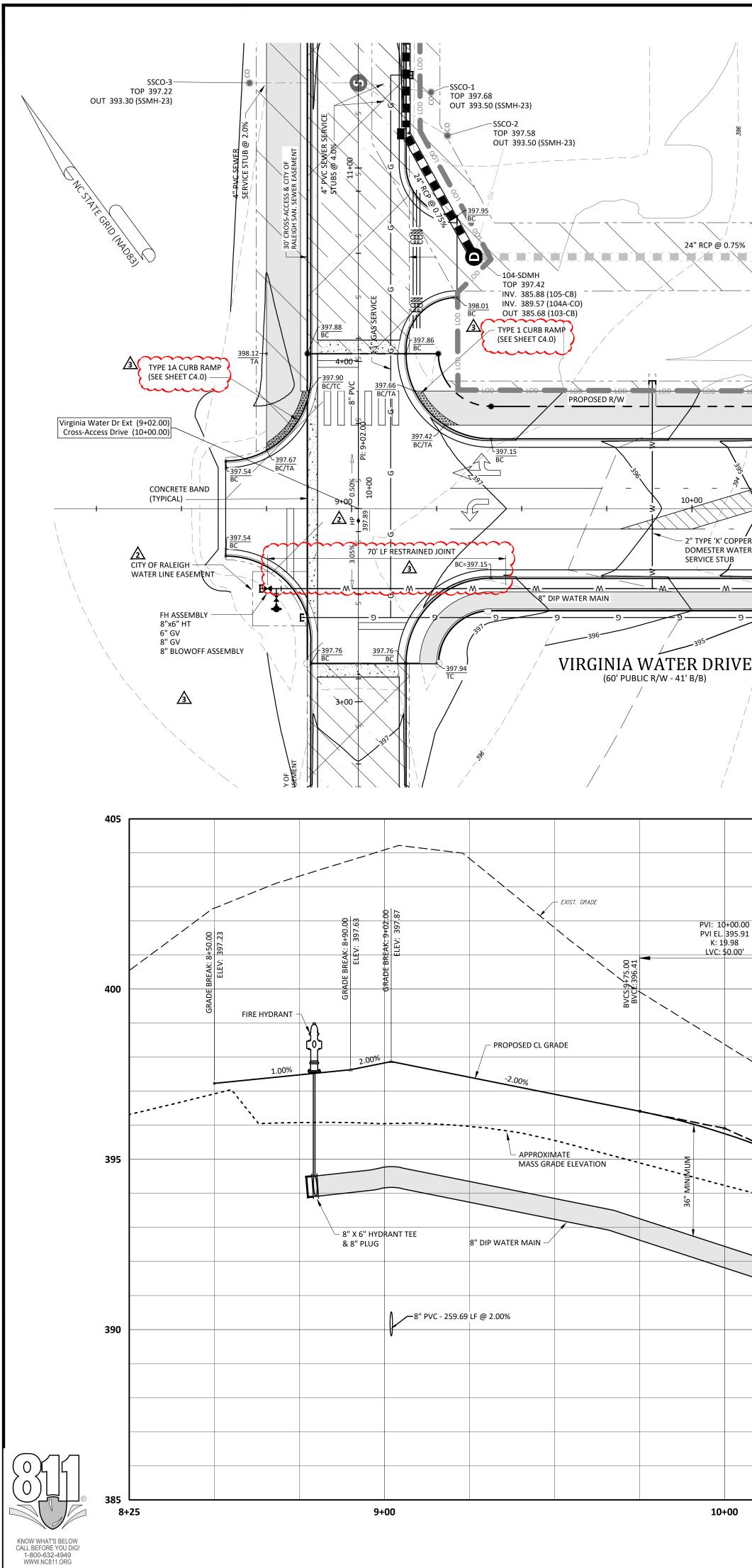
NND SLOPES STEEPER THAN 3.1. ALL A WERKLY BASIS AND AFTER EACH IG ORDUCHTE PLAN OR ITS IFEDERAL AND STATE WATER QUALITY SAND ASD APPLY TO THIS LAND OR APPROVAL IFEDERAL AND STATE WATER QUALITY SAND ASD APPLY TO THIS LAND OR APPROVAL ITERCORDUSS IN THE MEUSE AND TAR DIRECT ANY QUESTIONS ABOUTH TO INFO STATE WATER QUALITY SONR RALEIGH REGIONAL OFFICE AT DUATELY UPON CONSTRUCTION. INVIST BE OBTAINED BEFORE ANY LAND INVIST BE OBTAINED SECONDER INVIST BE OBTAINED SEC	sedimentation & Brooke Centrel 366 Expecteevillet + PC. Box 550 + Existing , NC 27002 366 Expecteevillet + PC. Box 550 + Existing , NC 27002 e approved plan and shall adhere to the nee and access easement shall be shown (erosion control measures surrounding the uter limit of this easement). etback a minimum of 25' from adjacent approved plan that stockpile height shall latter. wn on a plan to control any potential to a ditch, drainageway, watercourse, body of water shall be avoided unless an ted to be unavailable. affect the stockpile shall be diverted to an must be in compliance with Wake County ll spoil areas over an acre are required to rol plan. Developer/Contractor shall notify isposal of soil, prior to disposal. Fill of roachment Areas are prohibited except as on 14-19-2 of the Wake County Unified cations and permits required. bed on the Plan with tarps or mulch is required and will should be keyed in at the top of the slope rmeath the plastic. future use after the project is complete sponsible party must notify Wake County at stockpile.	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	CROSLAND     CROSLAND     SOUTHEAST     SOUTHEAST
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HFEDERAL AND STATE WATER QUALITY OR APPROVAL       Mar 1- Apr 15       and use the following form       50 lbs/acre (Sericae Lespediza); Jun 1       Image: Series Lespediza); Jun 1       Jun 2       Image: Series Lespediza); Jun 1       Image: Series Lespediza); Jun 1       Jun 2       Image: Series Lespediza); Jun 1       Jun 2       Image: Series Lespediza); Jun 1       Jun 2       Jun 2 <td>AND SLOPES STEEPER THAN 3:1. ALL A WEEKLY BASIS AND AFTER EACH</td> <td></td> <td></td>	AND SLOPES STEEPER THAN 3:1. ALL A WEEKLY BASIS AND AFTER EACH		
UM OF 48 HOURS IN ADVANCE TO         'MONITORED.         SLIT FENCE, SEDIMENT BASINS OR         STALL THESE DEVICES. SEED         CERTIFICATE OF COMPLIANCE.         STALL TEMPORARY SKIMMER         ID TO ENSURE AS MUCH FLOW AS         ENT. SKIMMER SEDIMENT BASINS TO BE         Ment, REMOVE BAFFLES, BACKFILL         L BE MONITORED CONTINUOUSLY.         INGS, ETC. SEED AND MULCH DENUDED         WATERSHED MANAGER JEEVAN         TC., AND SEED OR STABILIZED ANY         AS VELOCITY DISSIPATERS, SHOULD         VATERSHED MANAGER, JEEVAN	H FEDERAL AND STATE WATER QUALITY ES MAY ALSO APPLY TO THIS LAND OR APPROVAL. ATERCOURSES IN THE NEUSE AND TAR DIRECT ANY QUESTIONS ABOUT THE /ISOR, RALEIGH REGIONAL OFFICE AT	Mai       Image: mail of the point of the p	NC Lice CONSU GROUP, ENGINEERS & PI ENGINEERS & PI 7858 7858 7858
STALL THESE DEVICES. SEED CERTIFICATE OF COMPLIANCE. STALL TEMPORARY SKIMMER D TO ENSURE AS MUCH FLOW AS ENT. SKIMMER SEDIMENT BASINS TO BE MENT, REMOVE BAFFLES, BACKFILL L BE MONITORED CONTINUOUSLY. INGS, ETC. SEED AND MULCH DENUDED WATERSHED MANAGER JEEVAN TC., AND SEED OR STABILIZED ANY AS VELOCITY DISSIPATERS, SHOULD VATERSHED MANAGER, JEEVAN	UM OF 48 HOURS IN ADVANCE TO MONITORED. SILT FENCE, SEDIMENT BASINS OR	Sept 1-       Sericea Lespedeza (unhulled – unscarified) AND Tall       70 lbs/acre (Sericea Lespedeza); 120 lbs/acre (Tall Fescue)         Nov 1-       AND Abruzzi Rye       25 lbs/acre         Consult Wake County Soil & Water Conservation District or NC State Cooperative Extension for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those that do well under local conditions; other seeding rate combinations	
WATERSHED MANAGER JEEVAN       Checked By:       TGN         TC., AND SEED OR STABILIZED ANY       Project Number:       22049         AS VELOCITY DISSIPATERS, SHOULD       Drawing Number:       D-1404-CID         /ATERSHED MANAGER, JEEVAN	CERTIFICATE OF COMPLIANCE. STALL TEMPORARY SKIMMER D TO ENSURE AS MUCH FLOW AS ENT. SKIMMER SEDIMENT BASINS TO BE MENT, REMOVE BAFFLES, BACKFILL L BE MONITORED CONTINUOUSLY.	are possible. *** <b>TEMPORARY</b> : Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow more than 12" in height before mowing; otherwise, fescue	3/1/2024 Project Manager: BCF
	L TC., AND SEED OR STABILIZED ANY AS VELOCITY DISSIPATERS, SHOULD		Checked By: TGN Project Number: 22049 Drawing Number: D-1404-CID



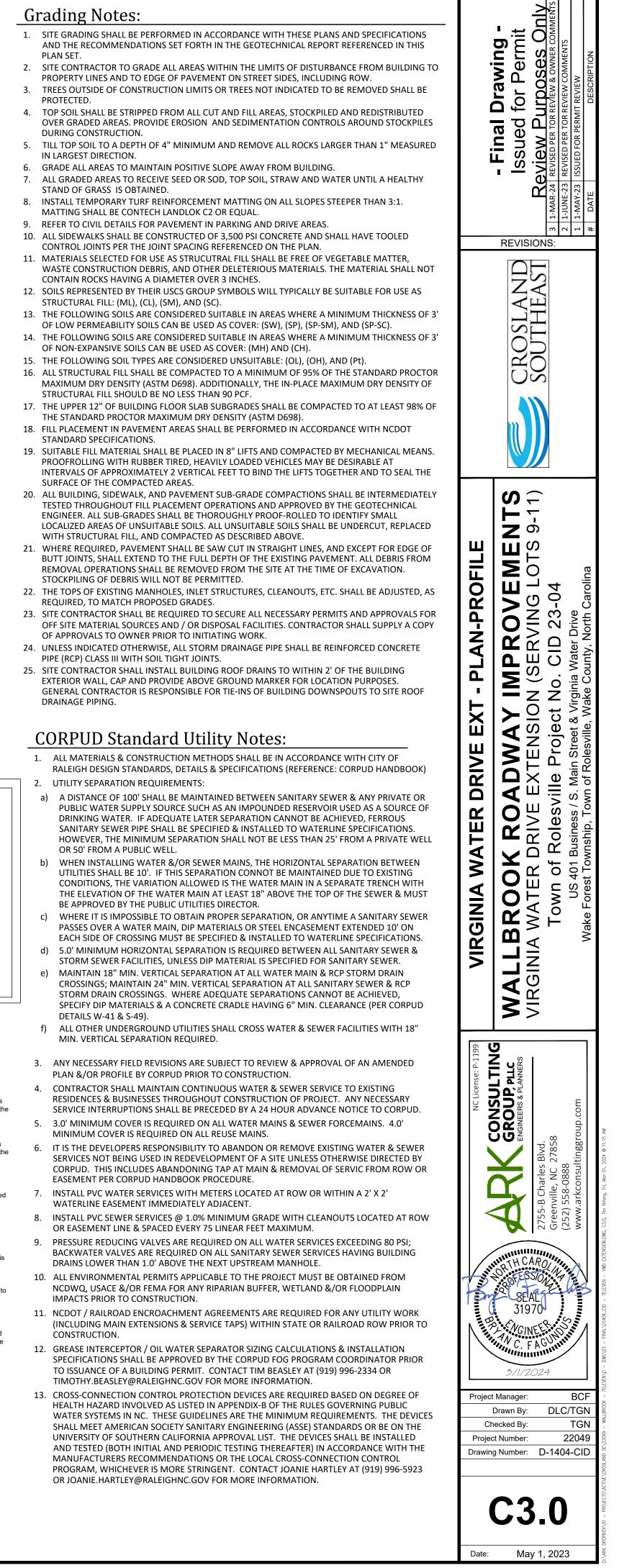
Depth to	Depth Below	Side Slope	Top Length	Top Width	Skimmer	Orifice
Weir (ft)	Weir (ft)	(x:1)	(ft)	(ft)	Size (in)	(in)
1.5	2.0	3.0	131	49	2.00	1.50

Left Slope (x:1)	Right Slope (x:1)	Flow Depth (ft)	Manning's n	Slope (ft/ft)	Wetted Area (sf)	Wetted Perimeter (ft)	Hydraulic Radius (ft)	Velocity (ft/s)	Qa (cfs)	Qa>Qreq?	au (lbs/ft²)	Liner Type	Allowable Shear Stress, $ au$ (lbs/ft <sup>2</sup> )
3	3	2.41	0.020	0.00984	19.81	8.69	2.28	0.63	12.57	Yes	1.478104695	N. Am. Green; Straw; 1 nets	1.55





FUTURE STORM DRAINAGE (INSTALLED BY OTHERS) 2 INV. 384.38 (104-SI OUT 384.18 (10	омн) 🔨 📉 📜 / 📉 / /			
TA=394.45         ±(MATCH)         BC=394.17         ±(MATCH)         BC=394.17         ±(MATCH)         BC=394.17         ±(MATCH)         BC=394.17         END MAIN ST PROJECT         WATEH         MATCH)         BC=394.35         END MAIN ST PROJECT         WATEH         INSTAL		TAP, HYDI	RANT, AND T TO BE COMPLETED	
	LED BY ST PROJECT	BY MAIN S (NCDOT U CORPUD R	STREET PROJECT	ATTENTION CONTRAM         The Construction Contractor responsible for the origination of the sewer, and/or reuse, as approved in these plans, is contacting the Public Utilities Department at least twenty four hours prior to beginning any of the failure to notify both City Departments in advancement construction, will result in the issuance of monetar reinstallation of any water or sewer facilities not in the set of the sewer facilities of the sewer
EVCS:10+55.00 BVCE:394.13 BVCE:393.43 BVCE:393.43	PVI: 10+80.00 PVI EL. 392.31 K: 20.00 LVC: 50.00' EXCE:3318100 EXCE:3318100 EXCE:3318100 EXCE:33181000 EXCE:33181000 EXCE:331810000000000000000000000000000000000	PVI: 11+30.00 PVI EL.391.31 K: 18.17 LVC: 50.00' LP: 11+41.34 LP EL.391.45 EACC:117 LVC: 50.00' LP: 11+41.34 LP EL.391.45 EACC:117 LP: 11+41.34 LP EACC:117 LP: 11+41.34 LP: 11+41.34LP: 11+41.34 LP:	395	of this notification failure.         Failure to call for Inspection, Install a Downstre Permitted Plans on the Jobsite, or any other Viola Raleigh Standards will result in a Fine and Possi future work in the City of Raleigh.         SITE PERMITTING AF         Water and Sewer Permits (if applicable)         The City of Raleigh consents to the connection and extension of the Cit shown on this plan. The material and Construction methods used for th standards and specifications of the City's Public Utilities Handbook. Cit Department Permit # S-         The City of Raleigh consents to the connection and extension of the Cit shown on this plan. The material and Construction methods used for th standards and specifications of the City's Public Utilities Handbook. Cit Department Permit # S-         The City of Raleigh consents to the connection and extension of the Cit shown on this plan. The material and Construction methods used for th standards and specifications of the City's Public Utilities Handbook. Cit Department Permit # W-         The City of Raleigh consents to the connection to its public sewer syste private sewer collection system as shown on this plan. The material and for this project shall conform to the standards and specifications of the H Handbook.         City of Raleigh Public Utilities Department Permit # S-
EX. 8" GV	AIN ST. PROJECT (NCDOT U-6241) DESIG	0.75%	390	City of Raleigh Public Ofinite's Department Perint #_5 CITY OF RALEIGH - PLANS AUTHORIZED I Plans for the proposed use have been reviewed for general compliance limited review, and authorization for construction is not to be considered compliance with all legal requirements for development and construction design consultants, and contractors are each responsible for compliance State and Federal laws. This specific authorization below is not a perm permit any violation of City, State or Federal Law. All Construction must Local, State, and Federal Rules and Regulations. Electronic Approval: This approval is being issued electronically. This the signature of a City of Raleigh Review Officer below. The City will re plans. Any work authorized by this approval must proceed in accordan with the City. This electronic approval may not be edited once issued. approval once issued will invalidate this approval. City of Raleigh Development Approval City of Raleigh Review Officer SCALE 1 inch = 20 ft



ONTRACTORS

42" RCP-IV

nsible for the extension of water, these plans, is responsible for *epartment* at (919) 996-4540 at inning any of their construction.

*tments* in advance of beginning nee of *monetary fines*, and require facilities not inspected as a result

tall a Downstream Plug, have ny other Violation of City of Vine and Possible Exclusion from

### TTING APPROVAL

xtension of the City's Public Sewer System as ethods used for this project shall conform to the es Handbook. City of Raleigh Public Utilities

extension of the City's Public Water System as nethods used for this project shall conform to the ies Handbook. City of Raleigh Public Utilities

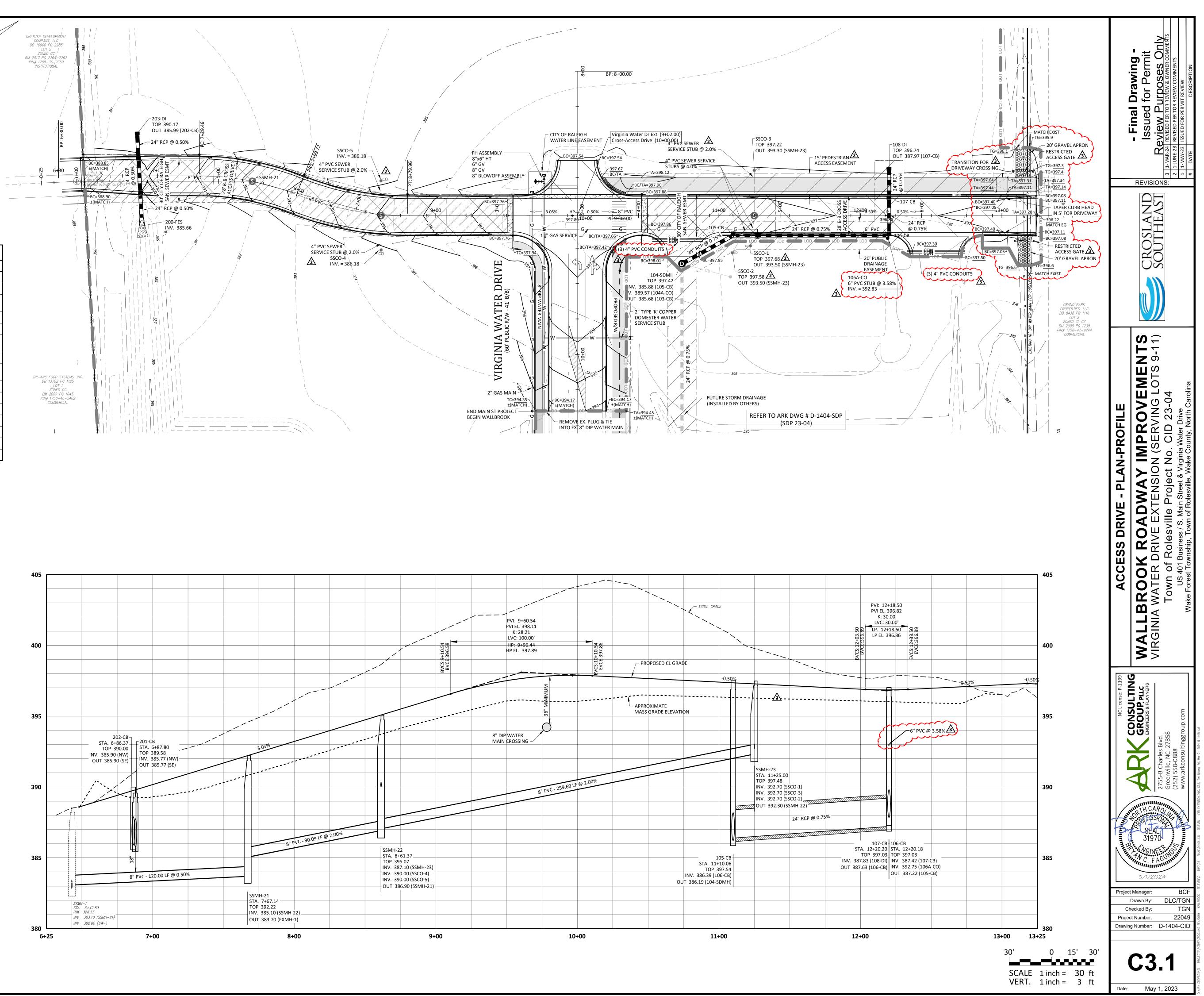
bublic sewer system and extensions of the . The material and construction methods used cifications of the City's Public Utilities

IS AUTHORIZED FOR CONSTRUCTION

eneral compliance with applicable codes. This ot to be considered to represent total int and construction. The property owner, sible for compliance with all applicable City, elow is not a permit, nor shall it be construed to Construction must be in accordance with all

ectronically. This approval is valid only upon w. The City will retain a copy of the approved beed in accordance with the plans kept on file

ted once issued. Any modification to this



STRUCTURE TABLE						
ID	ТОР	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)	со		
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		

### 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-

The City of Raleigh consents to the connection to its public sewer system and extensions of the private sewer collection 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 #\_\_\_\_\_

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 edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval City of Raleigh Review Officer

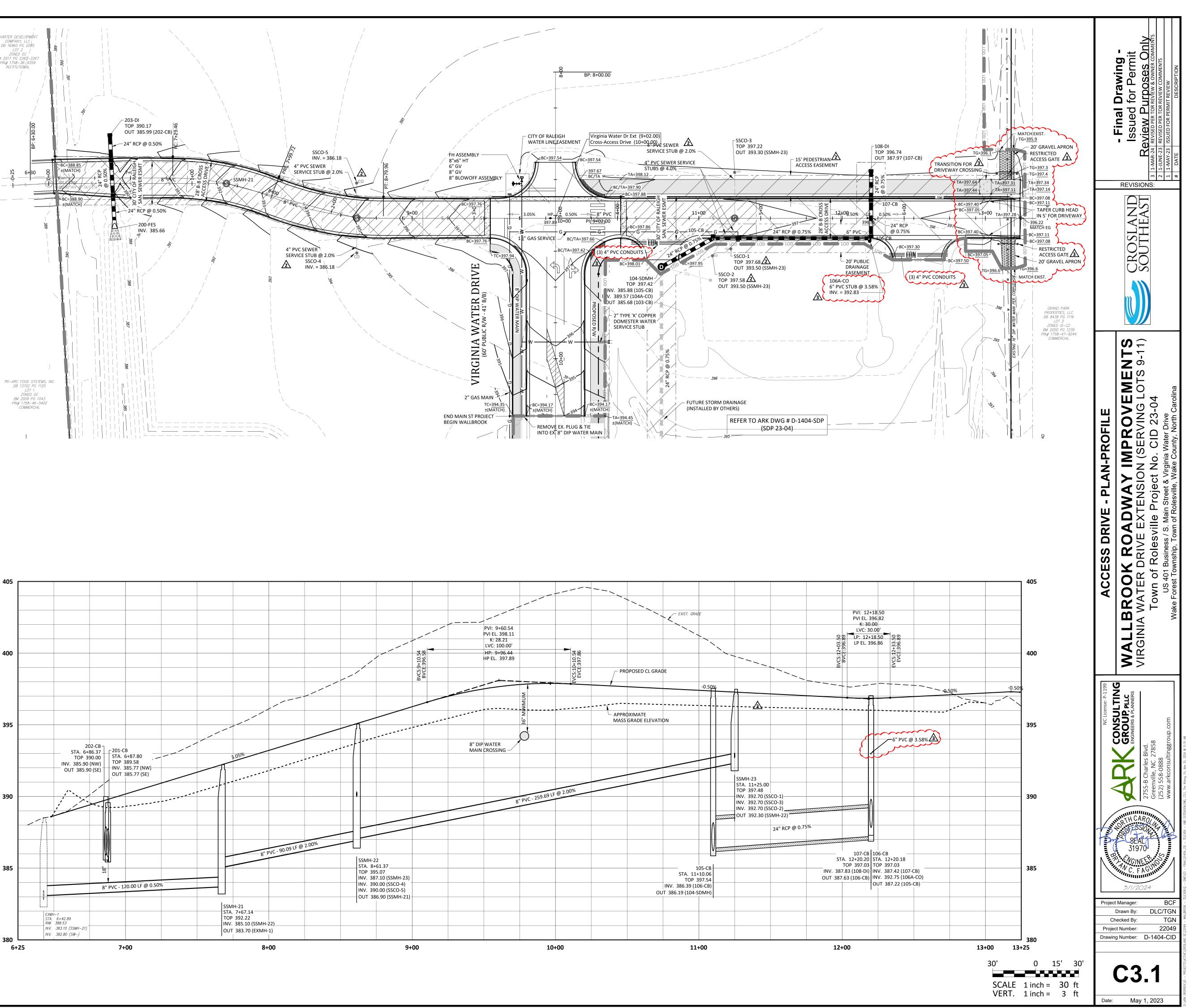
### **ATTENTION CONTRACTORS**

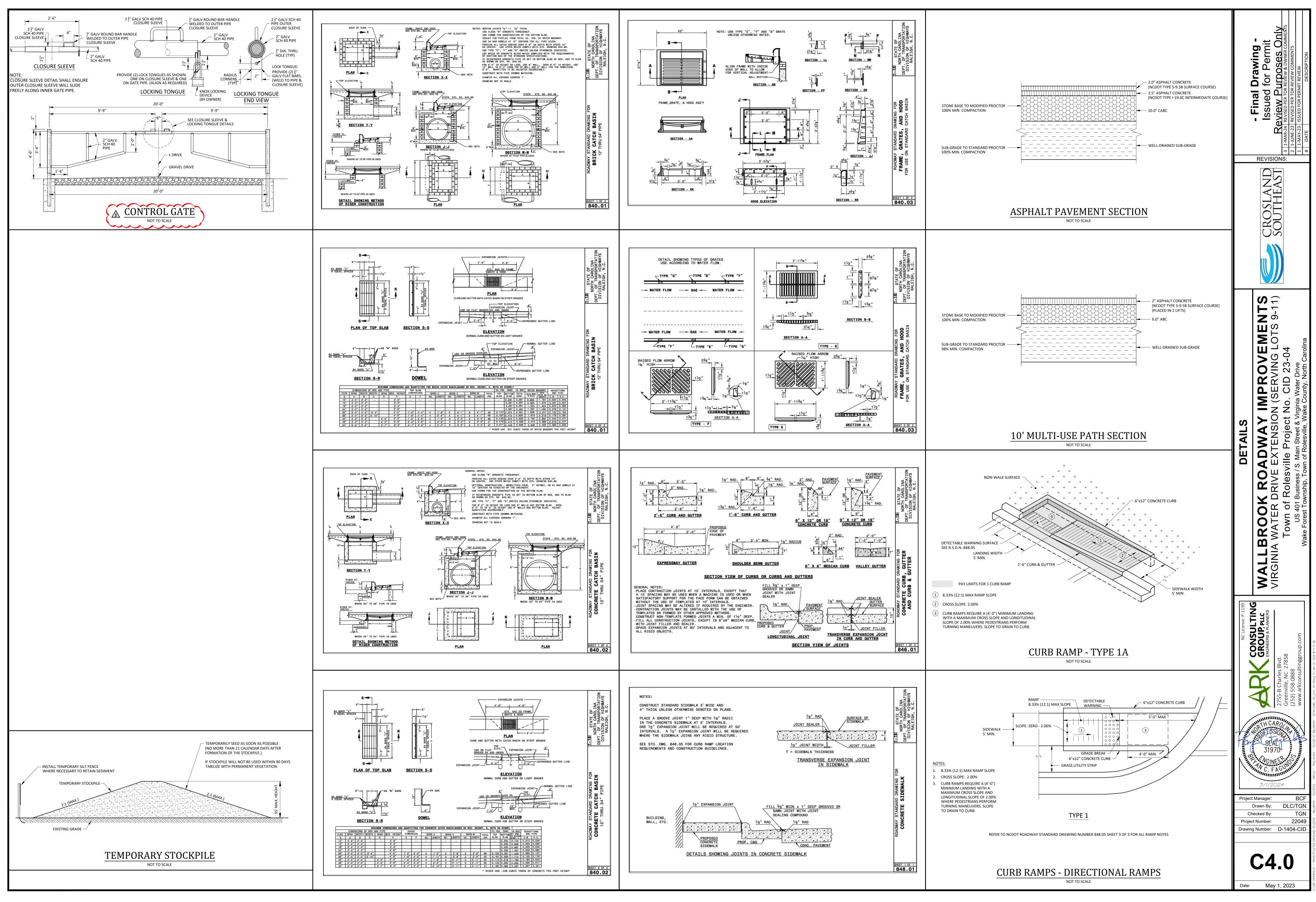
The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.

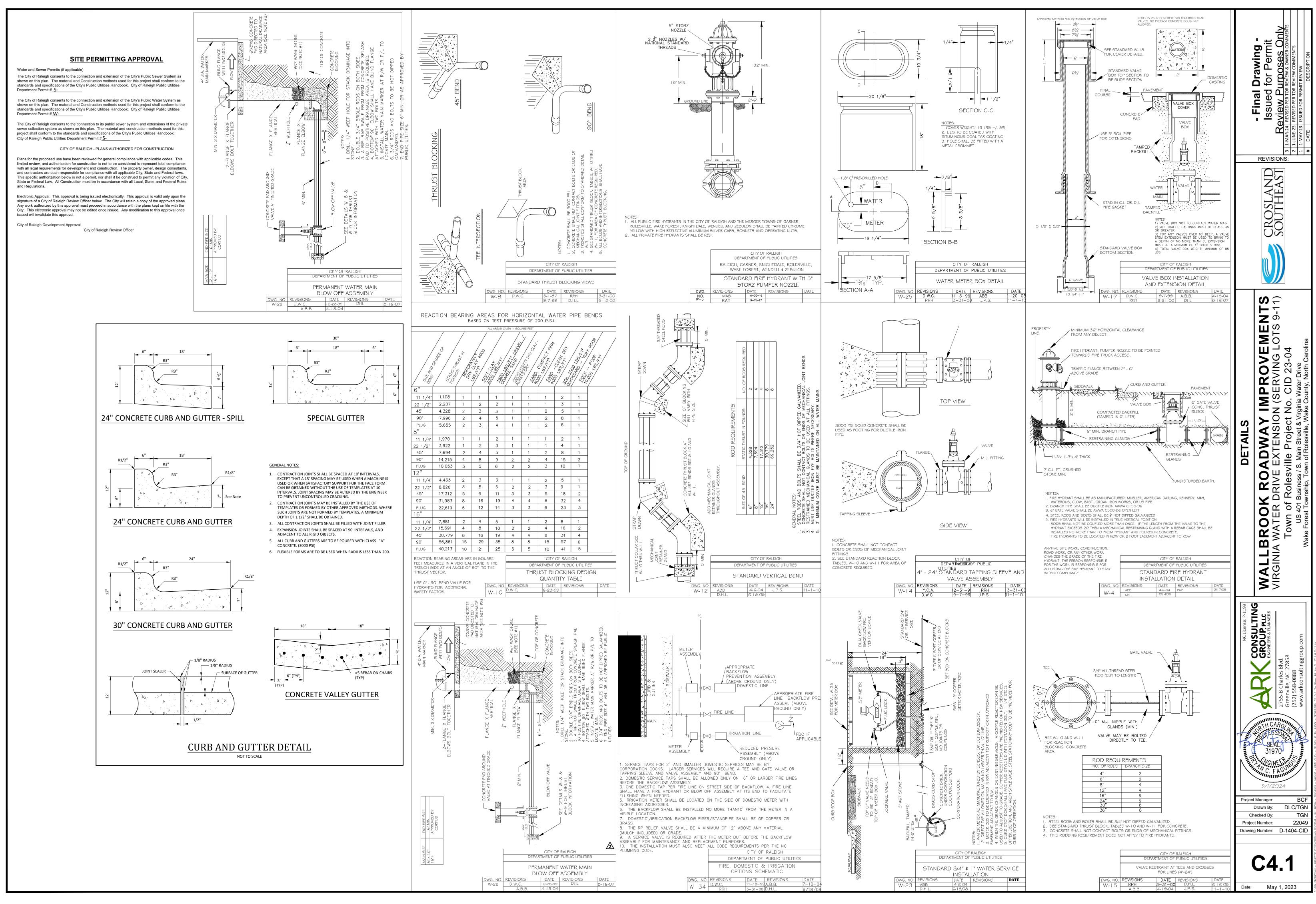
Failure to notify both City Departments in advance of beginning construction, will result in the issuance of *monetary fines*, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

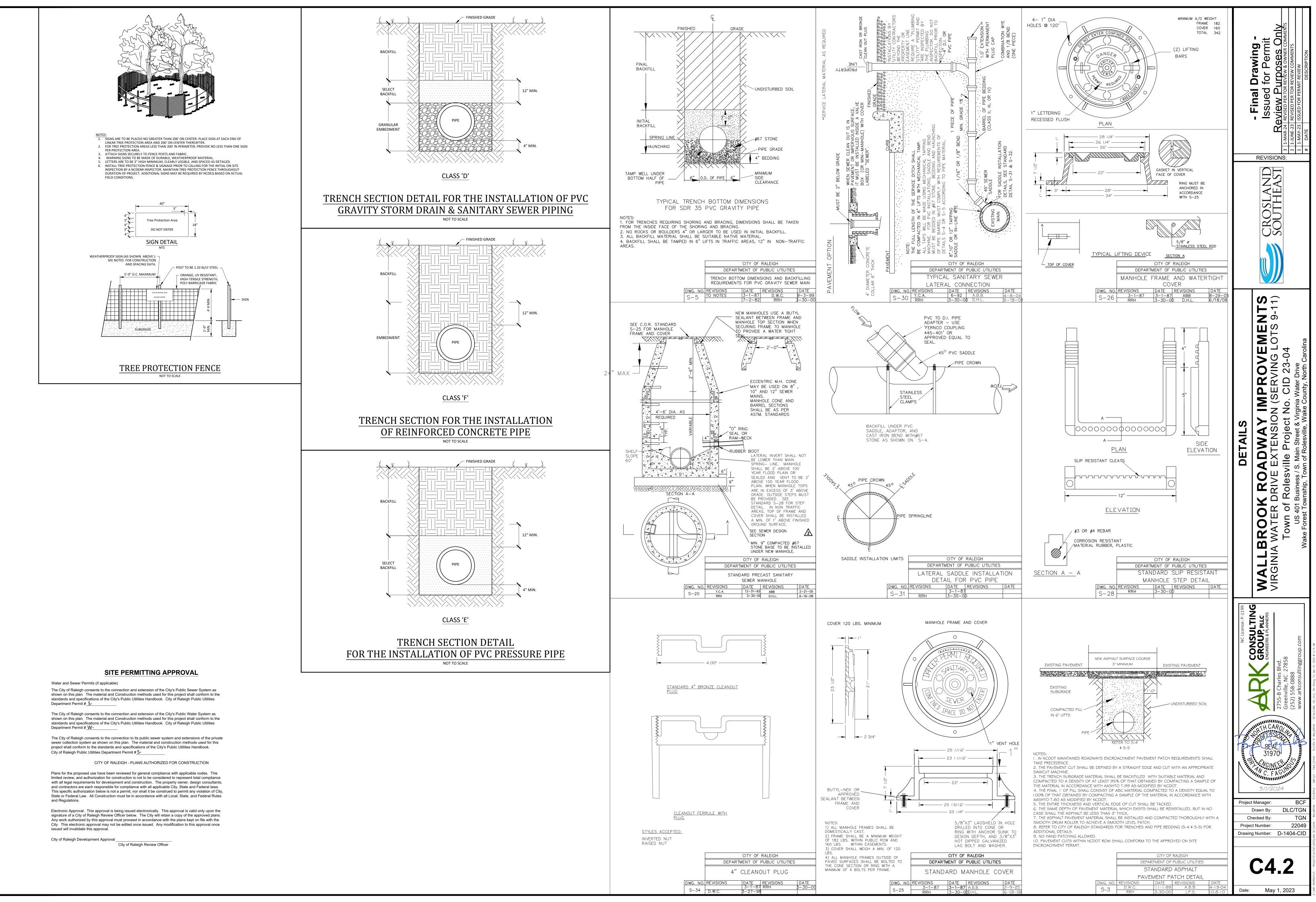
Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

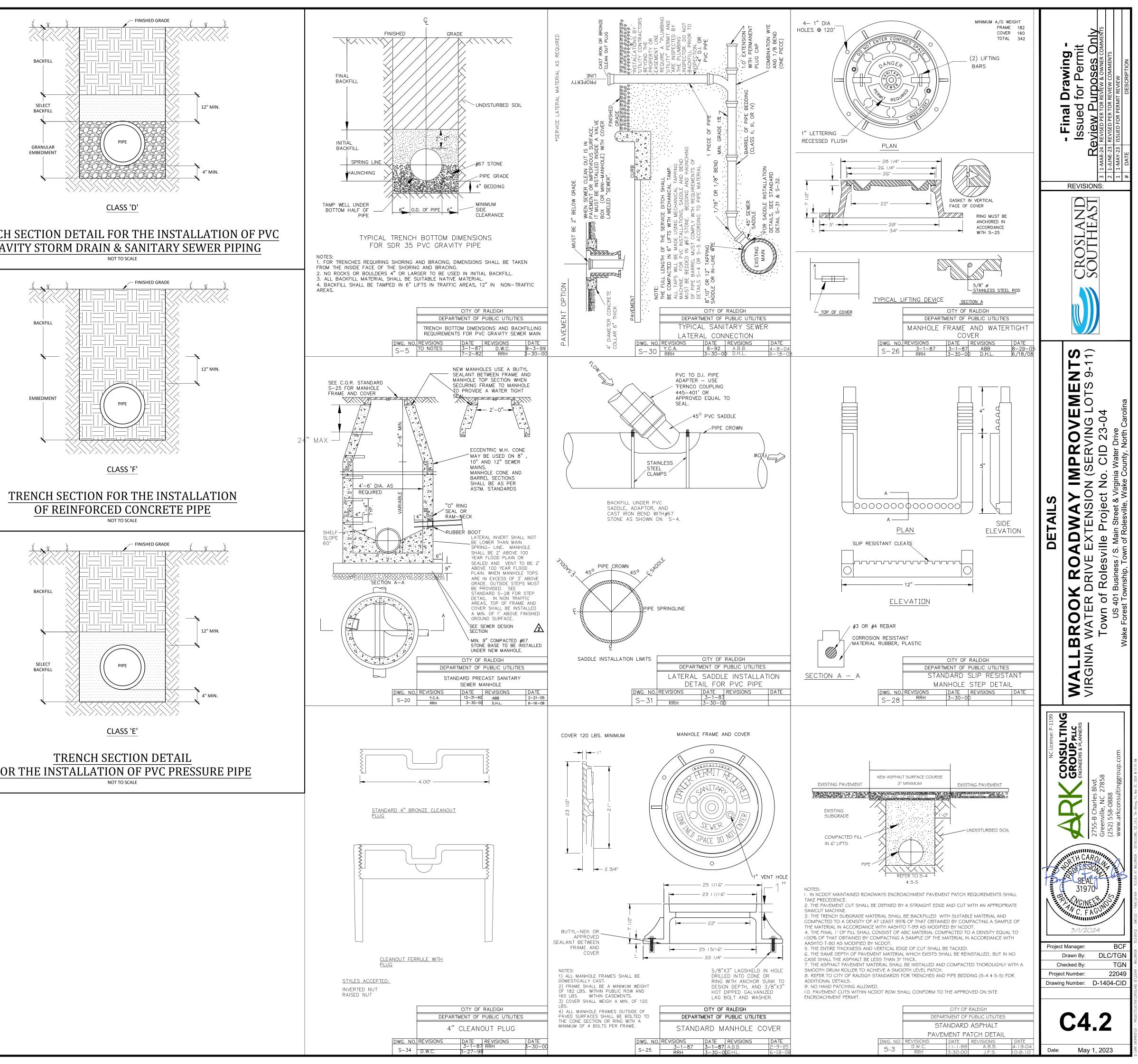












**GENERAL NOTES:** 

- 1. THIS ALTA/NSPS LAND TITLE SURVEY WAS PREPARED FOR THE BENEFIT OF WALLBROOK LANDCO, LLC, ITS SUCCESSORS AND/OR ASSIGNS AS THEIR INTERESTS MAY APPEAR, AND INVESTORS TITLE INSURANCE COMPANY.
- 2. THE PROPERTY AS SHOWN HEREON IS BASED ON A FIELD-RUN BOUNDARY SURVEY WITH A RAW CLOSURE OF 1:35,900.
- 3. THE IMPROVEMENTS SHOWN HEREON ARE BASED ON A FIELD-RUN PLANIMETRIC SURVEY PERFORMED BY JOHNSON, MIRMIRAN & THOMPSON FROM MARCH 16 THROUGH MARCH 19, 2020 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.
- 4. ELEVATIONS ARE BASED ON NAVD88 DATUM.
- 5. THE SURVEY IS REFERENCED TO THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM (NCSPCS), NORTH AMERICAN DATUM, 1983, 2001 ADJUSTMENT, NAD83(2001).
- 6. THE USE OF THE WORD CERTIFY OR CERTIFICATION CONSTITUTES AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS WHICH ARE THE SUBJECT OF THE UNDERSIGNED PROFESSIONAL'S KNOWLEDGE, INFORMATION AND BELIEF, AND IN ACCORDANCE WITH THE COMMONLY ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE EITHER EXPRESSED OR IMPLIED.
- 7. THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE X, AREA OF MINIMAL FLOODING, AS SHOWN ON NATIONAL FLOOD INSURANCE RATE MAP (FIRM), WAKE COUNTY, NORTH CAROLINA, PANEL 1758, MAP NO. 3720175800J, EFFECTIVE DATE: MAY 2, 2006.
- 8. AT THE TIME OF THE SURVEY, THERE WERE NO PARKING SPACES.
- 9. AT THE TIME OF THE SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF THE SITE BEING USED AS A SOLID WASTE DUMP, SUMP OR LANDFILL.
- 10. AT THE TIME OF THE SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF A CEMETERY.
- 11. AT THE TIME OF THE SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF BUILDING CONSTRUCTION OR BUILDING ADDITIONS.
- 12. CURRENT ZONING: I-SUD (INDUSTRIAL SPECIAL USE DISTRICT)

SETBACK REQUIREMENTS:

FRONT: 30' SIDE: 15' CORNER: 25' REAR: 35'

MATCH

(ZONING INFORMATION BASED ON INFORMATION AS SUPPLIED BY CURRENT COUNTY ZONING DEPARTMENT, NO ZONING REPORT OR LETTER WAS PROVIDED TO SURVEYOR AT TIME OF SURVEY.

### **RECORD LEGAL DESCRIPTION**

PER INVESTORS TITLE INSURANCE COMPANY, TITLE COMMITMENT NO. 202000244CA2, WITH AN EFFECTIVE DATE OF MARCH 6, 2020 AT 5:00 P.M .:

IN THE STATE OF NC, COUNTY OF WAKE,

BEING ALL OF LOT 2-1 OF THAT PLAT ENTITLED "PRELIMINARY SUBDIVISION PLAT AND RECOMBINATION SURVEY FOR TOMMY TWITTY," A COPY OF WHICH IS RECORDED IN BOOK OF MAPS 1996, PAGE 187. WAKE COUNTY REGISTRY.

### SCHEDULE B. PART II EXCEPTIONS:

PER INVESTORS TITLE INSURANCE COMPANY, TITLE COMMITMENT NO. 202000244CA2, WITH AN EFFECTIVE DATE OF MARCH 6, 2020 AT 5:00 P.M .:

- 1. (ITEM 3) EASEMENT(S) AND/OR RIGHT(S) OF WAY TO CITY OF RALEIGH RECORDED IN BOOK 10105 AT PAGE 778. [PLOTTED HEREON]
- 2. (ITEM 4) EASEMENT(S) AND/OR RIGHT(S) OF WAY TO WAKE ELECTRIC MEMBERSHIP CORPORATION RECORDED IN BOOK 3868 AT PAGE 917. [PLOTTED HEREON]
- 3. (ITEM 5) TITLE TO THAT PORTION OF THE LAND WITHIN THE RIGHT-OF-WAY OF U.S. HIGHWAY 401 (LOUISBURG ROAD). [PLOTTED HEREON]
- 4. (ITEM 6) MATTERS SHOWN ON RECORDED BOOK OF MAPS 1996 AT PAGE 187 SHOWS THE FOLLOWING LOCATED ON THE LAND:
- (a) OVERHEAD LINE [PLOTTED HEREON]
- (b) POWER POLE [PLOTTED HEREON]
- (c) RIGHT OF WAY FOR U.S. HIGHWAY 401 (LOUISBURG ROAD) [PLOTTED HEREON]

ASPHALT

LOT 2

GROUND RIM.

TIMOTHY KING

DB 16677 PG 2059

LOT 166

BM 2006 PG 811

PIN# 1758-46-2777

MDDLFEO

RINNCLE

6' CHAIN

LINK FENCE

510

NGS MONUMENT "SCARBORO"

50

7.60

 $\triangle$  N = 785,290.77

E = 2,153,833.19

C.F. = 0.99992552

5/

Q

