MASS GRADING / EROSION CONTROL

WALLBROOK - Lot 7

S. Main St. / US-401 Business & Wall Creek Drive, Town of Rolesville, Wake County, North Carolina

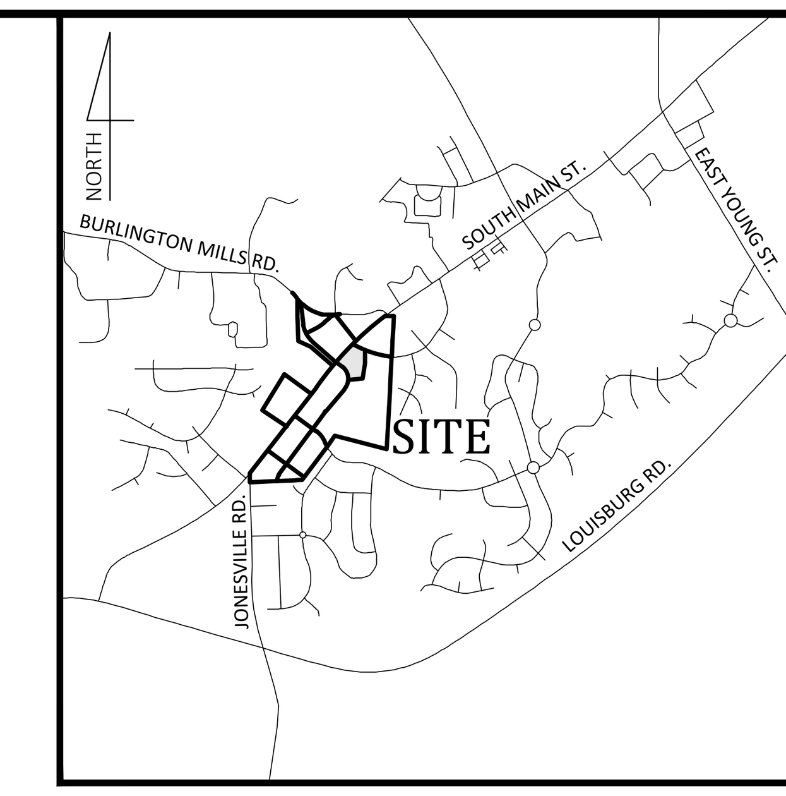
V2-
CID-24-02

Project No.: CID 24-___

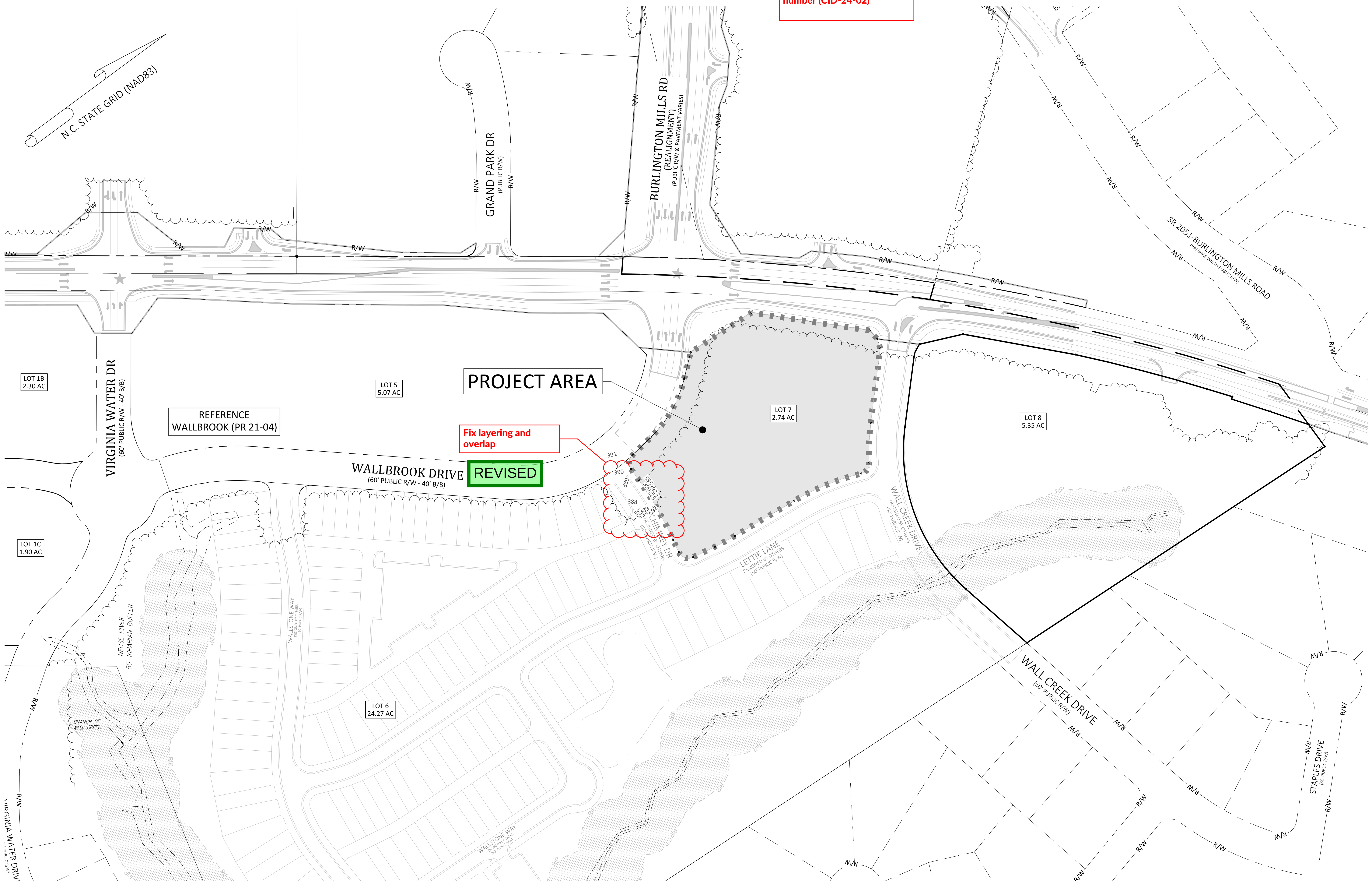
PROJ No. REVISED
CID 24-02

V1 - CID-24-02

Please add the project number (CID-24-02)



Vicinity Map
NOT TO SCALE



Sheet Index

#	Title
C0.1	Cover
C0.2	Existing Conditions & Demolition Plan
C1.0	Erosion Control Notes & Legend
C1.1	Erosion Control Phase 1
C1.2	Erosion Control Phase 2 & Mass Grading Plan
C2.1	Details
C2.2	Details
REF	Survey - Johnson, Mirmiran & Thompson (4 Sheets)
REF	Tree Preservation Plan - PR-21-04 REVISED (1 Sheet)

Site Data

PIN NUMBERS:	1758-57-7481
REAL ESTATE ID:	0509437
CURRENT ZONING:	GC-CZ
ACREAGE IN PARCEL:	2.74 ACRES
ACREAGE IN PUBLIC R/W:	0.00 ACRES
TOTAL ACREAGE DISTURBED:	2.30 ACRES
WATERSHED:	Lower Neuse
RIVER BASIN:	Neuse
CURRENT USE:	VACANT / WOODED
EXISTING IMPERVIOUS:	0 SF
PROPOSED IMPERVIOUS:	0 SF
PROPOSED USE(S):	NON-RESIDENTIAL/COMMERCIAL/RETAIL
LOTS IN DEVELOPMENT:	LOT 7
REFERENCES:	DB 018103 PG 01563 BM2023 PG 01602

Owner/Developer

Wallbrook Landco, LLC
3 Keel St, Ste 2
Wrightsville Beach, NC

Engineer

Ark Consulting Group, PLLC
2755-B Charles Blvd
Greenville, NC
Contact: Bryan C. Fagundus, PE

EROSION AND SEDIMENT CONTROL

APPROVED PLAN
DATE___________
PERMIT NO. S-___________
Wake County Environmental Services
Sedimentation & Erosion Control
919-856-7400

ENVIRONMENTAL CONSULTANT SIGNATURE

Rolesville

KNOW WHAT'S BELOW CALL BEFORE YOU DIG! 1-800-632-4949 WWW.NC811.ORG

100' 0 50' 100'
SCALE 1 inch = 100 ft

- Final Drawing -
Issued for Permit Review Purposes Only

#	DATE	DESCRIPTION
1	1-APR-24	ISSUED FOR INITIAL REVIEW

REVISIONS:

CROSLAND SOUTHEAST

COVER

WALLBROOK - LOT 7
MASS GRADING / EROSION CONTROL
Town of Rolesville Project No. CID 24-___
Rolesville, Wake County, North Carolina
S Main St. / US-401 Business & Wall Creek Drive

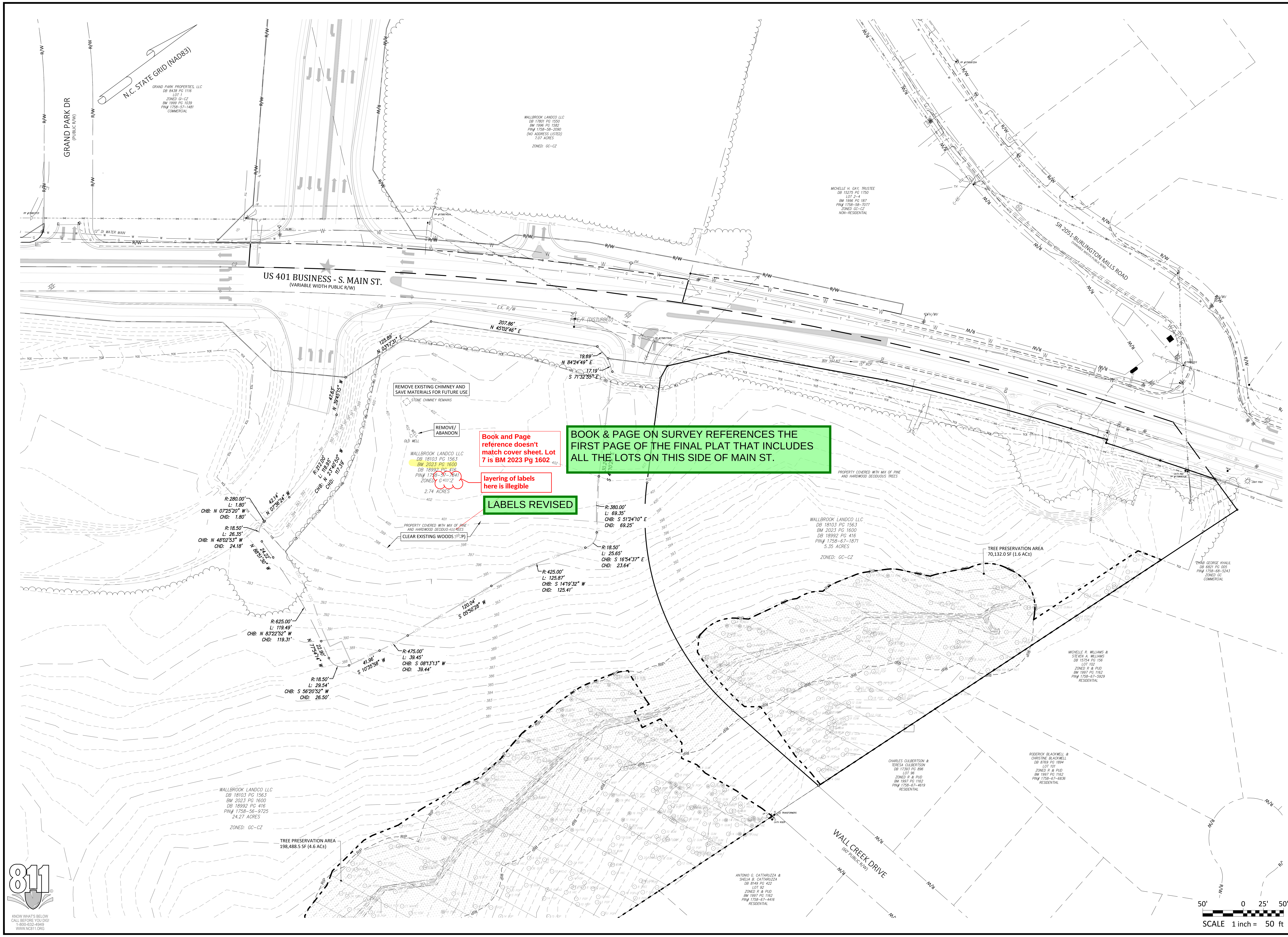
ARK CONSULTING GROUP PLLC ENGINEERS & PLANNERS
NC License: P-1199
2755-B Charles Blvd.
Greenville, NC 27858
(252) 558-0888
www.arkconsultinggroup.com

NORTH CAROLINA SEAL 31970 ENGINEER BRYAN C. FAGUNDUS
4/1/2024

Project Manager:	BCF
Drawn By:	DLC
Checked By:	TN
Project Number:	24
Drawing Number:	D-1471

C0.1

Date: April 1, 2024



N.C. STATE GRID (NAD83)
GRAND PARK DR (PUBLIC R/W)
US 401 BUSINESS - S. MAIN ST. (VARIABLE WIDTH PUBLIC R/W)
SR 2051-BURLINGTON MILLS ROAD
WALL CREEK DRIVE (60' PUBLIC R/W)
REMOVE EXISTING CHIMNEY AND SAVE MATERIALS FOR FUTURE USE
STONE CHIMNEY REMAINS
REMOVE/ ABANDON
OLD WELL
Book and Page reference doesn't match cover sheet. Lot 7 is BM 2023 Pg 1602
layering of labels here is illegible
BOOK & PAGE ON SURVEY REFERENCES THE FIRST PAGE OF THE FINAL PLAT THAT INCLUDES ALL THE LOTS ON THIS SIDE OF MAIN ST.
LABELS REVISED
WALLBROOK LANDCO LLC
DB 18103 PG 1563
BM 2023 PG 1600
DB 18992 PG 416
2.74 ACRES
PROPERTY COVERED WITH MIX OF PINE AND HARDWOOD DECIDUOUS TREES
CLEAR EXISTING WOODS
WALLBROOK LANDCO LLC
DB 18103 PG 1563
BM 2023 PG 1600
DB 18992 PG 416
PIN# 1758-67-1871
5.35 ACRES
ZONED: GC-CZ
WALLBROOK LANDCO LLC
DB 18103 PG 1563
BM 2023 PG 1600
DB 18992 PG 416
PIN# 1758-56-9725
24.27 ACRES
ZONED: GC-CZ
TREE PRESERVATION AREA 70,132.0 SF (1.6 AC±)
TREE PRESERVATION AREA 198,488.5 SF (4.6 AC±)
207.86' N 45°02'46" E
125.89' N 03°17'31" E
19.69' N 84°24'49" E
17.19' S 71°32'55" E
47.63' N 39°45'15" W
R:280.00' L: 1.80' CHB: N 07°25'20" W CHD: 1.80'
R:18.50' L: 26.35' CHB: N 48°02'53" W CHD: 24.18'
R:380.00' L: 69.35' CHB: S 51°24'10" E CHD: 69.25'
R:18.50' L: 25.65' CHB: S 16°54'37" E CHD: 23.64'
R:425.00' L: 125.87' CHB: S 14°19'32" W CHD: 125.41'
120.04' S 05°50'28" W
R:625.00' L: 119.49' CHB: N 83°22'52" W CHD: 119.31'
R:475.00' L: 39.45' CHB: S 08°13'13" W CHD: 39.44'
41.96' S 10°35'58" W
R:18.50' L: 29.54' CHB: S 56°20'52" W CHD: 26.50'
MICHELLE R. WILLIAMS & STEVEN A. WILLIAMS
CHARLES CULBERTSON & TERESA CULBERTSON
RODERICK BLACKWELL & CHRISTINE BLACKWELL
ANTONIO G. CATTARUZZA & SHELIA B. CATTARUZZA
50' 0 25' 50'
SCALE 1 inch = 50 ft
KNOW WHAT'S BELOW CALL BEFORE YOU DIG! 1-800-632-4949 WWW.NC811.ORG

- Final Drawing -
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#	DATE	DESCRIPTION
1	1-APR-24	ISSUED FOR INITIAL REVIEW

REVISIONS:

CROSLAND SOUTHEAST

EXISTING CONDITIONS & DEMOLITION PLAN

WALLBROOK - LOT 7
MASS GRADING / EROSION CONTROL

Town of Rolesville Project No. CID 24-__

Rolesville, Wake County, North Carolina

S Main St. / US-401 Business & Wall Creek Drive

NC License: P-1199

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NORTH CAROLINA PROFESSIONAL SEAL 031970 ENGINEER BRYAN C. FAGUNDUS
4/1/2024

Project Manager:	BCF
Drawn By:	DLC
Checked By:	TN
Project Number:	24
Drawing Number:	D-1471

C0.2

Date: April 1, 2024

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

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

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes

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

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

GROUND STABILIZATION SPECIFICATION

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

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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

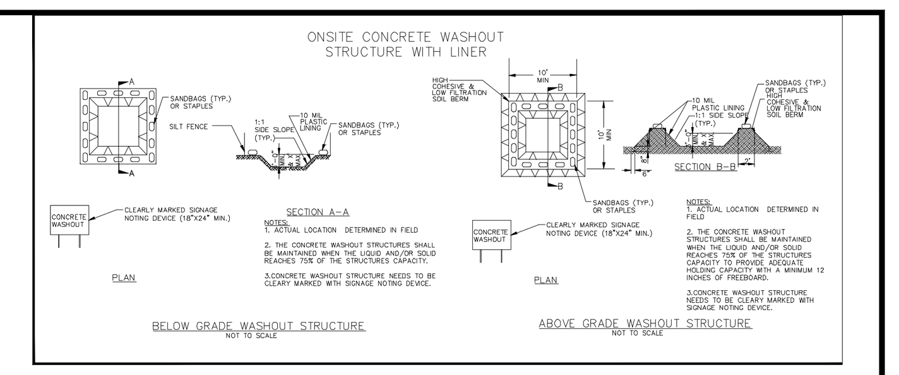
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled,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

PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

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



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING | EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

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

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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be 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 site 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]

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

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING | EFFECTIVE: 04/01/19

Legend

EXISTING		PROPOSED
	= FOUND MONUMENT AS NOTED	
	= SET IRON PIN	
	= NCGS MONUMENT	
	= DIMENSION POINT (NOTHING SET)	
PL	= PROPERTY LINE	
R/W	= RIGHT OF WAY	
C&G	= CURB AND GUTTER	
CATV	= CABLE TV PEDESTAL	
DI	= DROP INLET	
ELEC	= ELECTRIC BOX	
EM	= ELECTRIC METER	
F/O	= FIBER OPTIC	
FH	= FIRE HYDRANT	
GV	= GAS VALVE	
HBX	= HAND BOX	
LP	= LIGHT POLE	
PP	= POWER POLE	
	= GUY WIRE	
RCP	= REINFORCED CONCRETE PIPE	
S.F.	= SQUARE FEET (AREA)	
	= SIGN	
SIGNAL	= TRAFFIC SIGNAL POLE	
SS	= SANITARY SEWER MANHOLE	S
S	= SANITARY SEWER FORCE MAIN VALVE	
SD	= STORM DRAIN MANHOLE	D
TEL	= TELEPHONE PEDESTAL	
TRAF	= TRAFFIC BOX	
WATER	= WATER BOX	
WM	= WATER METER	
WMH	= WATER MANHOLE	
WV	= WATER VALVE	
WELL	= WELL	
X-WALK	= PEDESTRIAN X-WALK POLE	
E	= ELECTRIC LINE	
FM	= SANITARY SEWER FORCE MAIN	
FO	= FIBER OPTIC LINE	
G	= GAS LINE	G
OHE	= OVERHEAD ELECTRIC LINE	
S	= SANITARY SEWER LINE	
T	= TELEPHONE LINE	
TV	= CABLE TV LINE	
W	= WATER LINE	W
	= FIRE LINE	F
	= 8"ø WATER LINE	8"W
	= 12"ø WATER LINE	12"W
RIP	= RIPARIAN BUFFER	
	= TREELINE	
50	= MAJOR CONTOUR (5')	100
	= MINOR CONTOUR (1')	99
	= DESIGN CONTOUR (ARK CONSULTING GROUP)	100
	= DESIGN CONTOUR (McADAMS, CO.)	100
	= SILT FENCE	SF
	= TEMPORARY DIVERSION (TDD)	TDD
	= LIMITS OF DISTURBANCE	LOD
	= TREE PROTECTION FENCE	TPF
	= TDD DRAINAGE AREA	
	= SKIMMER BASIN DRAINAGE AREA	
	= STORM PIPE	
	= SKIMMER OUTLET DEVICE	
	= STONE CHECK DAM	
	= RIPARIAN BUFFER	RIP
	= ACCESS AND UTILITY EASEMENT	
	= STORMWATER MAINT. EASEMENT	
	= RIGHT-OF-WAY TO BE DEDICATED AS PART OF U-6241	
	= PROJECT AREA	

Please add LEGEND REVISED

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.

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. CONTACT NCDEQ - RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&SC JURISDICTION: WAKE COUNTY, WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A) REASON FOR CONVERSION, B) BASIN #, C) DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. KEEP EMAIL FOR YOUR NDPES MONITORING DOCUMENTATION
3. AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE THE BASIN OR ON ≥ DAY 11, WHICHEVER IS SOONER, REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED, 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 IMMEDIATELY.
5. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
6. WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

Erosion Control Provisions:

1. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING WAKE COUNTY WATERSHED MANAGEMENT OF THE DATE THAT THE LAND DISTURBING ACTIVITY WILL BEGIN.
2. LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MAY NOT PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY THE ENGINEER.
3. SCHEDULING OF A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY WATERSHED MANAGER, JEEVAN NEUPANE, PE (919-819-8907) PRIOR TO INITIATING LAND DISTURBING ACTIVITIES IS REQUIRED. FOR INSPECTION CALL 919-819-8907. 48 HOUR NOTICE IS REQUIRED.
4. INSTALL TREE PROTECTION FENCING AROUND ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS SHOWN ON PLANS.
5. PROVIDE 20' X 50' X 6" STONE CONSTRUCTION ENTRANCES AS SHOWN ON PLAN.
6. SEED OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 7 DAYS OF COMPLETION OF ANY PHASE OF GRADING ON PERIMETER AREAS AND SLOPES STEEPER THAN 3:1. ALL OTHER AREAS SHALL BE STABILIZED WITHIN 14 DAYS.
7. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP ALL EROSION CONTROL DEVICES IN PROPER WORKING ORDER MAY RESULT IN A STOP WORK ORDER OR CIVIL PENALTIES UP TO $5000.00 PER DAY OF VIOLATION.
8. THE ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
9. ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATION AND RULES. IN ADDITION LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND DISTURBING ACTIVITY. APPROVAL BY THE COUNTY DOES NOT SUPERSEDE ANY OTHER PERMIT OR APPROVAL.
10. PLEASE BE ADVISED OF THE RULES TO PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND TAR RIVER BASINS. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER RESOURCES (DWR). DIRECT ANY QUESTIONS ABOUT THE APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVISOR, RALEIGH REGIONAL OFFICE AT (919) 791-4200.
11. ALL AREAS DOWNSTREAM OF TEMPORARY BASINS AND DITCHES ARE TO BE STABILIZED IMMEDIATELY UPON CONSTRUCTION.

Construction Sequence:

1. EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR.
2. CALL WAKE COUNTY WATERSHED MANAGER JEEVAN NEUPANE AT (919) 819-8907 A MINIMUM OF 48 HOURS IN ADVANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING AND FOR NOTIFICATION OF PROJECT START UP.
3. ANY DEWATERING ON THE SITE SHALL BE DONE THROUGH A SILT BAG THAT IS CONSTANTLY MONITORED.
4. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
5. CALL WATERSHED MANAGER, JEEVAN NEUPANE FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE.
6. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE. INSTALL TEMPORARY SKIMMER SEDIMENT BASINS, ALONG WITH TEMPORARY DIVERSION DITCHES THAT SHALL BE INSTALLED TO ENSURE AS MUCH FLOW AS POSSIBLE IS DIRECTED TO THE BASINS.
7. AS ROUGH MASS GRADING CONTINUES, SKIMMER SEDIMENT BASINS SHALL BE MAINTAINED AND CLEANED OF SEDIMENT. IN THE FUTURE SITE-SPECIFIC EROSION CONTROL PLAN SKIMMER SEDIMENT BASINS TO BE ABANDONED SHALL BE REMOVED AS FOLLOWS: DEWATER THROUGH SILT BAG, CLEAN SEDIMENT, REMOVE BAFFLES, BACKFILL BASIN AND STABILIZE IMMEDIATELY. DEWATERING OPERATIONS THROUGH SILT BAGS SHALL BE MONITORED CONTINUOUSLY.
8. STABILIZE STE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAME.
9. WHEN MASS GRADING IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL WATERSHED MANAGER JEEVAN NEUPANE FOR INSPECTION.
10. IF SITE IS APPROVED, MAINTAIN TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OR STABILIZED ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS, SHOULD NOW BE INSTALLED.
11. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL SITE INSPECTION BY THE WATERSHED MANAGER, JEEVAN NEUPANE. OBTAIN CERTIFICATE OF COMPLETION.

- Final Drawing -
Issued for Permit
Review Purposes Only

#	DATE	DESCRIPTION
1	1-APR-24	ISSUED FOR INITIAL REVIEW

REVISIONS:

CROSLAND SOUTHEAST

EROSION CONTROL NOTES & LEGEND
WALLBROOK - LOT 7
MASS GRADING / EROSION CONTROL

Town of Rolesville Project No. CID 24-__

Rolesville, Wake County, North Carolina

S Main St./ US-401 Business & Wall Creek Drive

ARK CONSULTING GROUP PLLC
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www.arkconsultinggroup.com
NC License: P-1199

NORTH CAROLINA PROFESSIONAL SEAL 31970 ENGINEER BRIAN C. FAGUNDUS
4/1/2024

Project Manager:	BCF
Drawn By:	DLC
Checked By:	TN
Project Number:	24
Drawing Number:	D-1471

C1.0

Date: April 1, 2024

5. Sheet C1.1
   - **A.** Section 6.2.4.5 indicates that all existing vegetation which meets buffer requirements shall be preserved to the greatest extent possible AND requires all trees that are to be preserved shall be enclosed with an appropriate, visible fence before grading begins for both site plans and subdivisions. Please confirm whether existing vegetation will be utilized to satisfy perimeter and street buffer requirements and that all tree protection measures will be shown on Sheet C1.1. It appears from the Limits of Disturbance that the entire site is to be cleared and graded. However, existing tree line is shown. It is understood that all trees are to be removed. Please remove the tree line as shown if those trees have been or are intended to be removed.
   - **B.** Please add TCE line, dark black dashed line, and dark grey stippled area to the legend on Sheets C1.0 and C.1.1.
6. Sheet 11 (Tree Preservation Plan) - Please confirm the removal of the 21’ evergreen identified on the subject property.
7. As outlined in Section 6.2.4.5, all existing vegetation which meets buffer requirements shall be preserved to the greatest extent possible.
8. Please review layering as contour labels overwrite other plan labels.

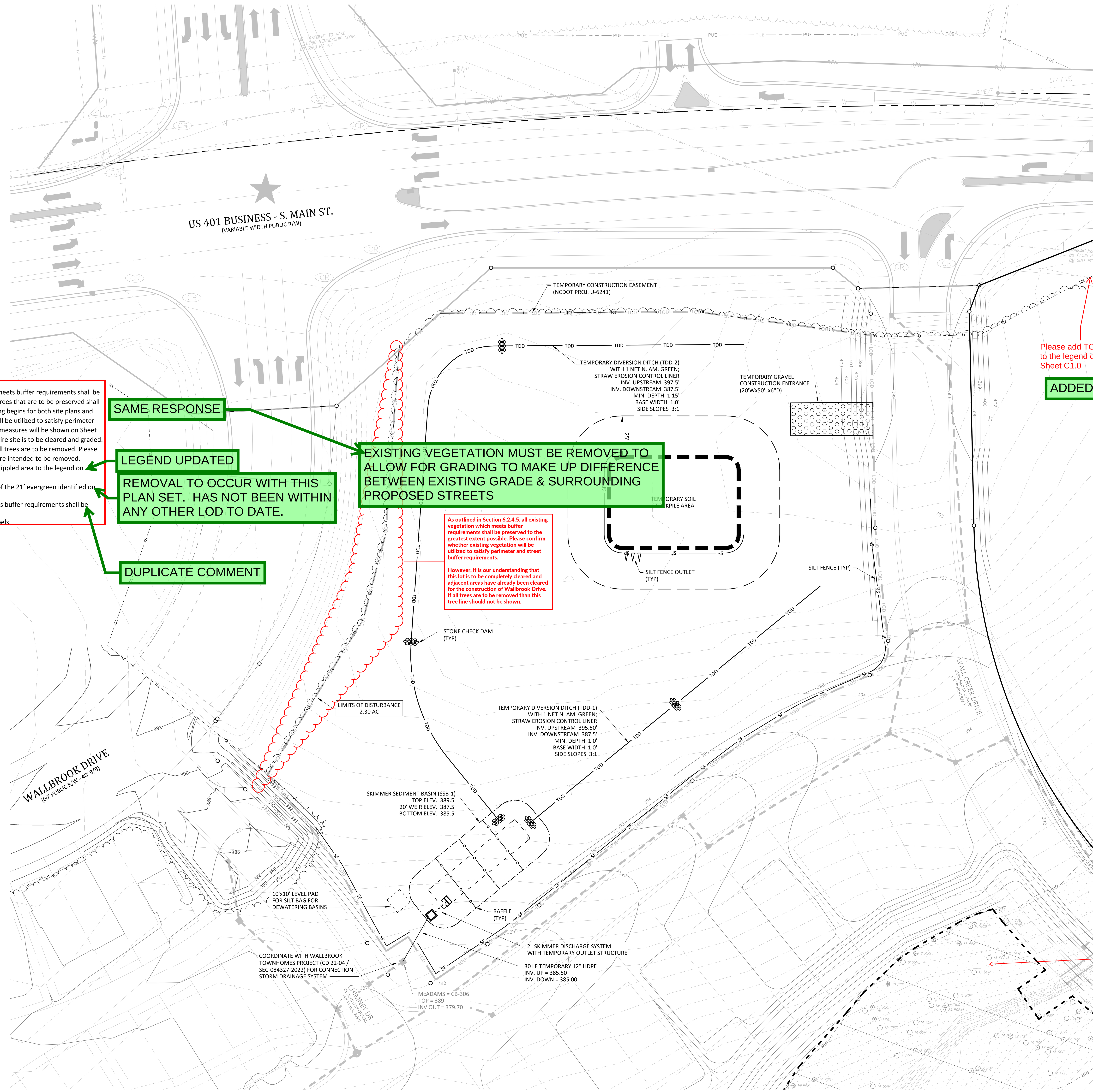
SAME RESPONSE

LEGEND UPDATED

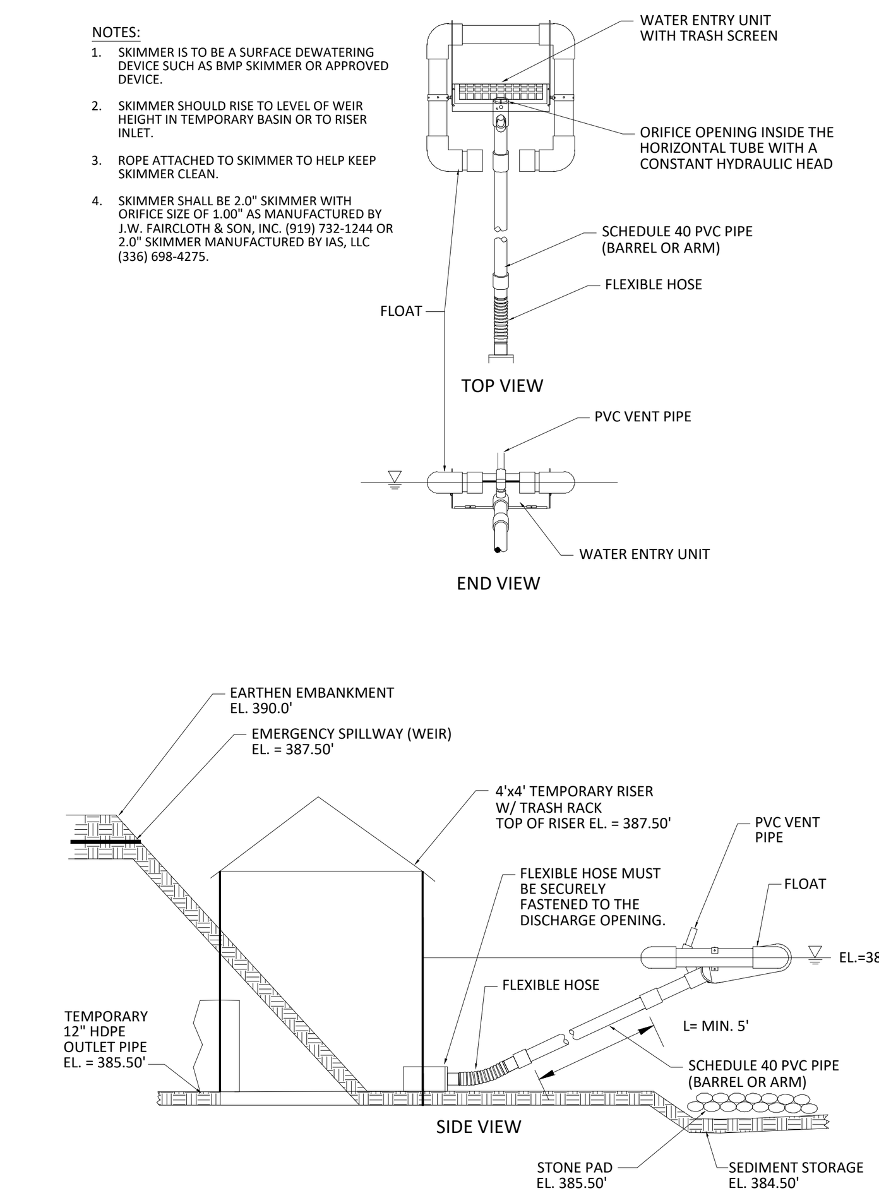
REMOVAL TO OCCUR WITH THIS PLAN SET. HAS NOT BEEN WITHIN ANY OTHER LOD TO DATE.

DUPLICATE COMMENT

LABELS REVISED



US 401 BUSINESS - S. MAIN ST.
(VARIABLE WIDTH PUBLIC R/W)
TEMPORARY CONSTRUCTION EASEMENT
(NCDOT PROJ. U-6241)
EXISTING VEGETATION MUST BE REMOVED TO ALLOW FOR GRADING TO MAKE UP DIFFERENCE BETWEEN EXISTING GRADE & SURROUNDING PROPOSED STREETS
As outlined in Section 6.2.4.5, all existing vegetation which meets buffer requirements shall be preserved to the greatest extent possible. Please confirm whether existing vegetation will be utilized to satisfy perimeter and street buffer requirements.
However, it is our understanding that this lot is to be completely cleared and adjacent areas have already been cleared for the construction of Wallbrook Drive. If all trees are to be removed than this tree line should not be shown.
TEMPORARY DIVERSION DITCH (TDD-2)
WITH 1 NET N. AM. GREEN;
STRAW EROSION CONTROL LINER
INV. UPSTREAM 397.5'
INV. DOWNSTREAM 387.5'
MIN. DEPTH 1.15'
BASE WIDTH 1.0'
SIDE SLOPES 3:1
TEMPORARY GRAVEL
CONSTRUCTION ENTRANCE
(20'Wx50'Lx6"D)
TEMPORARY SOIL
STOCKPILE AREA
SILT FENCE OUTLET
(TYP)
SILT FENCE (TYP)
STONE CHECK DAM
(TYP)
LIMITS OF DISTURBANCE
2.30 AC
TEMPORARY DIVERSION DITCH (TDD-1)
WITH 1 NET N. AM. GREEN;
STRAW EROSION CONTROL LINER
INV. UPSTREAM 395.50'
INV. DOWNSTREAM 387.5'
MIN. DEPTH 1.0'
BASE WIDTH 1.0'
SIDE SLOPES 3:1
WALLBROOK DRIVE
(60' PUBLIC R/W - 40' B/B)
SKIMMER SEDIMENT BASIN (SSB-1)
TOP ELEV. 389.5'
20' WEIR ELEV. 387.5'
BOTTOM ELEV. 385.5'
10'x10' LEVEL PAD
FOR SILT BAG FOR
DEWATERING BASINS
BAFFLE
(TYP)
2" SKIMMER DISCHARGE SYSTEM
WITH TEMPORARY OUTLET STRUCTURE
30 LF TEMPORARY 12" HDPE
INV. UP = 385.50
INV. DOWN = 385.00
COORDINATE WITH WALLBROOK
TOWNHOMES PROJECT (CD 22-04 /
SEC-084327-2022) FOR CONNECTION
STORM DRAINAGE SYSTEM
McADAMS = CB-306
TOP = 389
INV OUT = 379.70
CHIMNEY DR
WALL CREEK DRIVE
Please add TCE line to the legend on Sheet C1.0
ADDED
Please add this shading AND Line weight type to the Legend
TREE PRESERVATION CROSS-HATCH AND BOUNDARY ADDED TO LEGEND
N.C. STATE GRID (NAD83)



SKIMMER DISCHARGE SYSTEM
WITH OUTLET STRUCTURE FOR SSB-1

NOT TO SCALE

CONTOUR LEGEND

400	PROPOSED CONTOURS
400	DESIGN CONTOURS PUBLIX AT WALLBROOK (SDP 23-05 / CID 23-01) (ARK CONSULTING GROUP)
400	DESIGN CONTOURS WALLBROOK TOWNHOMES (CD 22-04) (McADAMS CO.)
400	EXISTING INDEX CONTOUR
399	EXISTING CONTOUR

SCALE 1 inch = 30 ft

KNOW WHAT'S BELOW
CALL BEFORE YOU DIG!
1-800-632-4949
WWW.NC811.ORG

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REVISIONS:

CROSLAND SOUTHEAST

EROSION CONTROL PHASE 1
WALLBROOK - LOT 7
MASS GRADING / EROSION CONTROL

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