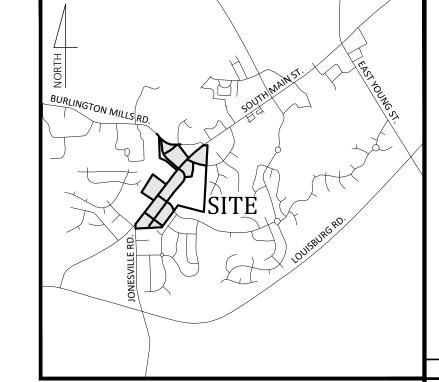
EROSION CONTROL / MASS GRADING / SANITARY SEWER RELOCATION FOR WALLBROOK

Main St. / US 401 Business, Town of Rolesville, Wake County, North Carolina Project No.: CD 22-02 △

CD 22-02 **REVISION - V1**

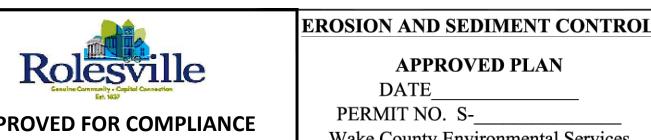
Sheet Index



Vicinity Map
NOT TO SCALE

CROSLANDSOUTHEAST

REVISIONS:

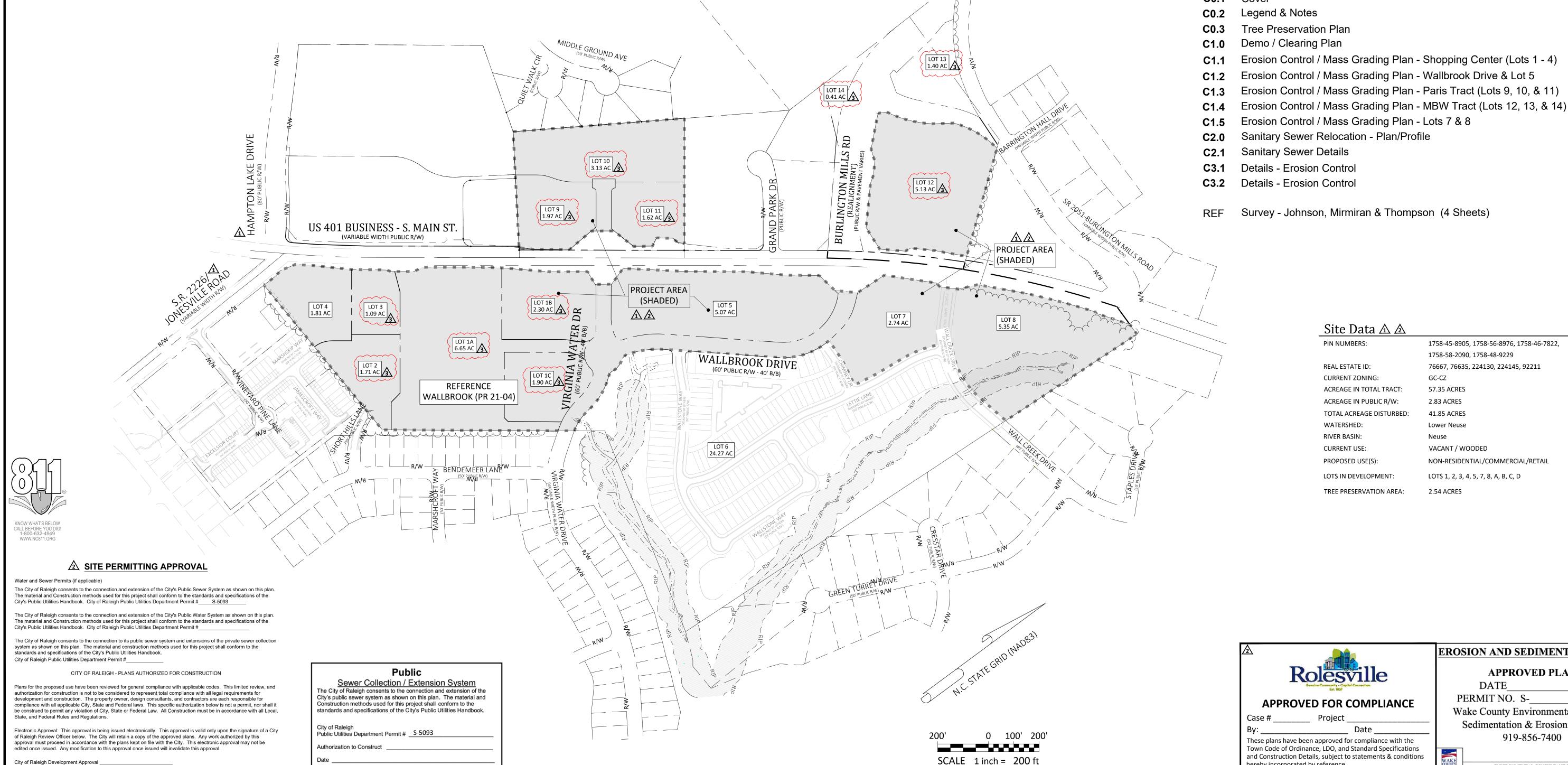


Wake County Environmental Services Sedimentation & Erosion Control 919-856-7400

Checked By:

Drawing Number: D-1219-EC

April 1, 2022



Site Data 🛦 🛕

PIN NUMBERS: 1758-45-8905, 1758-56-8976, 1758-46-7822, 1758-58-2090, 1758-48-9229 REAL ESTATE ID: 76667, 76635, 224130, 224145, 92211

CURRENT ZONING: ACREAGE IN TOTAL TRACT: 57.35 ACRES 2.83 ACRES ACREAGE IN PUBLIC R/W: TOTAL ACREAGE DISTURBED: 41.85 ACRES WATERSHED: **Lower Neuse** RIVER BASIN: Neuse **CURRENT USE:** VACANT / WOODED PROPOSED USE(S):

NON-RESIDENTIAL/COMMERCIAL/RETAIL LOTS IN DEVELOPMENT LOTS 1, 2, 3, 4, 5, 7, 8, A, B, C, D

TREE PRESERVATION AREA: 2.54 ACRES

APPROVED FOR COMPLIANCE

These plans have been approved for compliance with the Town Code of Ordinance, LDO, and Standard Specifications and Construction Details, subject to statements & conditions hereby incorporated by reference.

ENVIRONMENTAL CONSULTANT SIGNATURE

City of Raleigh Review Officer

ections of the NCG01 Construction General Permit (Sections E and F, respectively). The mittee shall comply with the Erosion and Sediment Control plan approved by the legated authority having jurisdiction. All details and specifications shown on this sheet ay not apply depending on site conditions and the delegated authority having jurisdictio

	ION E: GROUND STAE		
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	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zone: -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 racticable but in no case longer than 90 calendar days after the last land disturbing ctivity. 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 tabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the

flatter than 4:1

Plastic sheeting

techniques in the table below:	
Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or	Permanent grass seed covered with straw or
other mulches and tackifiers	other mulches and tackifiers
Hydroseeding	Geotextile fabrics such as permanent soil
Rolled erosion control products with or	reinforcement matting
without temporary grass seed	Hydroseeding
Appropriately applied straw or other mulch	Shrubs or other permanent plantings covered

with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosior · Structural methods such as concrete, asphalt retaining walls Rolled erosion control products with grass seed

construction, selecting from the NC DWR List of Approved PAMS/Flocculants. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. Apply flocculants at the concentrations specified in the NC DWR List of Approved

Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures

Select flocculants that are appropriate for the soils being exposed during

PAMS/Flocculants and in accordance with the manufacturer's instructions. Provide ponding area for containment of treated Stormwater before discharging

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

with the approved plan and any additional requirements. Soil stabilization is define 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

EQUIPMENT AND VEHICLE MAINTENANC

has been corrected

containers overflow.

PAINT AND OTHER LIQUID WASTE

foot traffic areas.

with properly operating unit.

five feet from the toe of stockpile

Provide stable stone access point when feasible

EARTHEN STOCKPILE MANAGEMEN

Provide drip pans under any stored equipment

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

hazardous waste (recycle when possible)

Maintain vehicles and equipment to prevent discharge of fluids.

to a recycling or disposal center that handles these materials

receptacle) on site to contain construction and domestic wastes.

waters unless no other alternatives are reasonably available.

Dispose waste off-site at an approved disposal facility.

waters unless no other alternatives are reasonably available.

Contain liquid wastes in a controlled area.

on a gravel pad and surround with sand bags.

Identify leaks and repair as soon as feasible, or remove leaking equipment from th

Remove leaking vehicles and construction equipment from service until the problem

Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum product

Never bury or burn waste. Place litter and debris in approved waste containers

Locate waste containers at least 50 feet away from storm drain inlets and surface

Locate waste containers on areas that do not receive substantial amounts of runof

from upland areas and does not drain directly to a storm drain, stream or wetland

Cover waste containers at the end of each workday and before storm events or

provide secondary containment. Repair or replace damaged waste containers.

Empty waste containers as needed to prevent overflow. Clean up immediately if

. On business days, clean up and dispose of waste in designated waste containers.

Do not dump paint and other liquid waste into storm drains, streams or wetlands

Locate paint washouts at least 50 feet away from storm drain inlets and surface

Containment must be labeled, sized and placed appropriately for the needs of site.

Prevent the discharge of soaps, solvents, detergents and other liquid wastes from

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

Provide staking or anchoring of portable toilets during periods of high winds or in high

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

Show stockpile locations on plans. Locate earthen-material stockpile areas at least

50 feet away from storm drain inlets, sediment basins, perimeter sediment controls

Protect stockpile with silt fence installed along toe of slope with a minimum offset of

and surface waters unless it can be shown no other alternatives are reasonably

Stabilize stockpile within the timeframes provided on this sheet and in accordance

Anchor all lightweight items in waste containers during times of high winds.

Provide a sufficient number and size of waste containers (e.g dumpster, trash

. Collect all spent fluids, store in separate containers and properly dispose as

CRETE OLEARLY MARKED SIGNAGE NOTING DEVICE (18"X24" MIN.) CLEARLY MARKED SIGNAGE NOTING DEVICE (18 X24 MIN.) THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY. 3.CONCRETE WASHOUT STRUCTURE NEEDS TO E CLEARY MARKED WITH SIGNAGE NOTING DEVICE 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. BELOW GRADE WASHOUT STRUCTURE ABOVE GRADE WASHOUT STRUCTURE

Do not discharge concrete or cement slurry from the site. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility. 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. 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.

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 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

Do not use concrete washouts for dewatering or storing defective curb or sidewalk

spills or overflow. 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. 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. 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

. 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.

Store and apply herbicides, pesticides and rodenticides in accordance with label

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.

ZARDOUS 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: 04/01/1

SELF-INSPECTION, RECORDKEEPING AND REPORTING

elf-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 rsonnel 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 inspection 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 un attended days (and this will determine if a site inspection in needed). Days on which no rainfall occurred shall be recorded a "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	Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions teken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours	Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, 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 obssible.

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

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

Item to Document

requirement not practical:

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

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

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

(a) This general permit as well as the certificate of coverage, after it is received 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

shown to provide equal access and utility as the hard-copy records.

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

electronically-available records in lieu of the required paper copies will be allowed if

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.

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). 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

. Reporting Timeframes and Other Requirement

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.

Reporting Timeframes (After Discovery) and Other Requirements

(a) Visible sediment	Within 24 hours, an oral or electronic notification.			
deposition in a	Within 7 calendar days, a report that contains a description of the			
stream or wetland	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 <u>NC 303(d) list</u> as impaired for sediment-			
	related causes, the permittee may be required to perform additional			
1	monitoring, in spections 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	Within 24 hours, an oral or electronic notification. The notification			
release of	shall include information about the date, time, nature, volume and			
h azard ous	location of the spill or release.			
substances per Item				
1(b)-(c) above				
(c) Anticipated	A report at least ten days before the date of the bypass, if possible.			
bypasses [40 CFR	The report shall include an evaluation of the anticipated quality and			
122.41(m)(3)]	effect of the bypass.			
(d) Unanticipated	Within 24 hours, an oral or electronic notification.			
bypasses [40 CFR	Within 7 calendar days, a report that includes an evaluation of the			
122.41(m)(3)]	quality and effect of the bypass.			
(e) Noncompliance	Within 24 hours, an oral or electronic notification.			
with the conditions	Within 7 calendar days, a report that contains a description of the			
of this permit that	noncompliance, and its causes; the period of noncompliance,			
may endanger	including exact dates and times, and if the noncompliance has not			
health or the	been corrected, the anticipated time noncompliance is expected to			
environment[40	continue; and steps taken or planned to reduce, eliminate, and			
CFR 122.41(l)(7)]	1			
CFR 122.41()(7)]	prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6).			

Division staff may waive the requirement for a written report on a

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

| EFFECTIVE: 04/01/1

Demolition Notes:

PROPOSED

— w —

------ 8''W ------

 $\bigcirc \bigcirc \bigcirc$

_____ SF _____

_____ TDD _____

______ TPF _____

_ _ _ _ _ _

- - - - RIP-

_____ 12"W _____

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.

. 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 OWNFR.

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.

13. TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO

12. CONTRACTOR SHALL REMOVE EXISTING VEGETATION AND IMPROVEMENTS WITHIN LIMITS OF DISTURBANCE UNLESS NOTED

BE REMOVED SHALL BE PROTECTED.

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.

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

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.

WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

ATTENTION CONTRACTORS

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

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

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

Erosion Control Provisions:

Legend

= FOUND MONUMENT AS NOTED

= DIMENSION POINT (NOTHING SET)

O = SET IRON PIN

R/W = RIGHT OF WAY

= DROP INLET

= ELECTRIC BOX

(EM) EM = ELECTRIC METER

F/O = FIBER OPTIC

🖏 fh = fire hydrant

= HAND BOX

G GV = GAS VALVE

-☆- LP = LIGHT POLE

← = GUY WIRE

= SIGN

 Δ = NCGS MONUMENT

= PROPERTY LINE

C&G = CURB AND GUTTER

= CABLE TV PEDESTAL

RCP = REINFORCED CONCRETE PIPE

= SANITARY SEWER MANHOLE

= PEDESTRIAN X-WALK POLE

= SANITARY SEWER FORCE MAIN VALVE

S.F. = SQUARE FEET (AREA)

= TRAFFIC SIGNAL POLE

= STORM DRAIN MANHOLE

= TELEPHONE PEDESTAL

= TRAFFIC BOX

----- = SANITARY SEWER FORCE MAIN

= FIRE LINE

= SILT FENCE

= STORM PIPE

= 8"Ø WATER LINE

= 12"ø WATER LINE

= TEMPORARY DIVERSION (TDD)

= SKIMMER BASIN DRAINAGE AREA -----

= LIMITS OF DISTURBANCE

= TDD DRAINAGE AREA

= STONE CHECK DAM

= RIPARIAN BUFFER

= TREE PROTECTION FENCE

= SKIMMER OUTLET DEVICE

= ACCESS AND UTILITY EASEMENT

= STORMWATER MAINT, EASEMENT

AS PART OF U-6241

= PROJECT AREA

= RIGHT-OF-WAY TO BE DEDICATED

- - - s - - = SANITARY SEWER LINE

= WATER BOX

WM WM = WATER METER

₩ WV = WATER VALVE

= WELL

----E ---- = ELECTRIC LINE

---- G ---- = GAS LINE

----- FO ----- = FIBER OPTIC LINE

— T — TELEPHONE LINE

—— ▼ — = CABLE TV LINE

- - - - - RIP- = RIPARIAN BUFFER

--- 50 --- = MAJOR CONTOUR (5')

-----= MINOR CONTOUR (1')

= TREELINE

_____w ___ = WATER LINE

W) WMH = WATER MANHOLI

EXISTING

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.

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.

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.

PROVIDE 20' X 50' X 6" STONE CONSTRUCTION ENTRANCES AS SHOWN ON PLAN.

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.

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.

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:

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. ANY DEWATERING ON THE SITE SHALL BE DONE THROUGH A SILT BAG THAT IS CONSTANTLY MONITORED. 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.

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. GRADING OF THE BASINS CAN CONTINUE WITH TSB-1 BECOMING A FUTURE WET POND. IN THE FUTURE SITE-SPECIFIC EROSION CONTROL PHASE, SEDIMENT BASIN FOR PERMANENT USE AS WET POND (TSB-1) SHALL BE REMOVED AS FOLLOWS: DEWATER (THROUGH SILT BAG), CLEAN SEDIMENT, AND REMOVE BAFFLES. RE-SHAPE THE BASIN AS REQUIRED BY THE DESIGN DRAWINGS, INCLUDING EXCAVATION/SHAPING OF THE FOREBAY. SEED AND STABILIZE BASIN SLOPES. 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.

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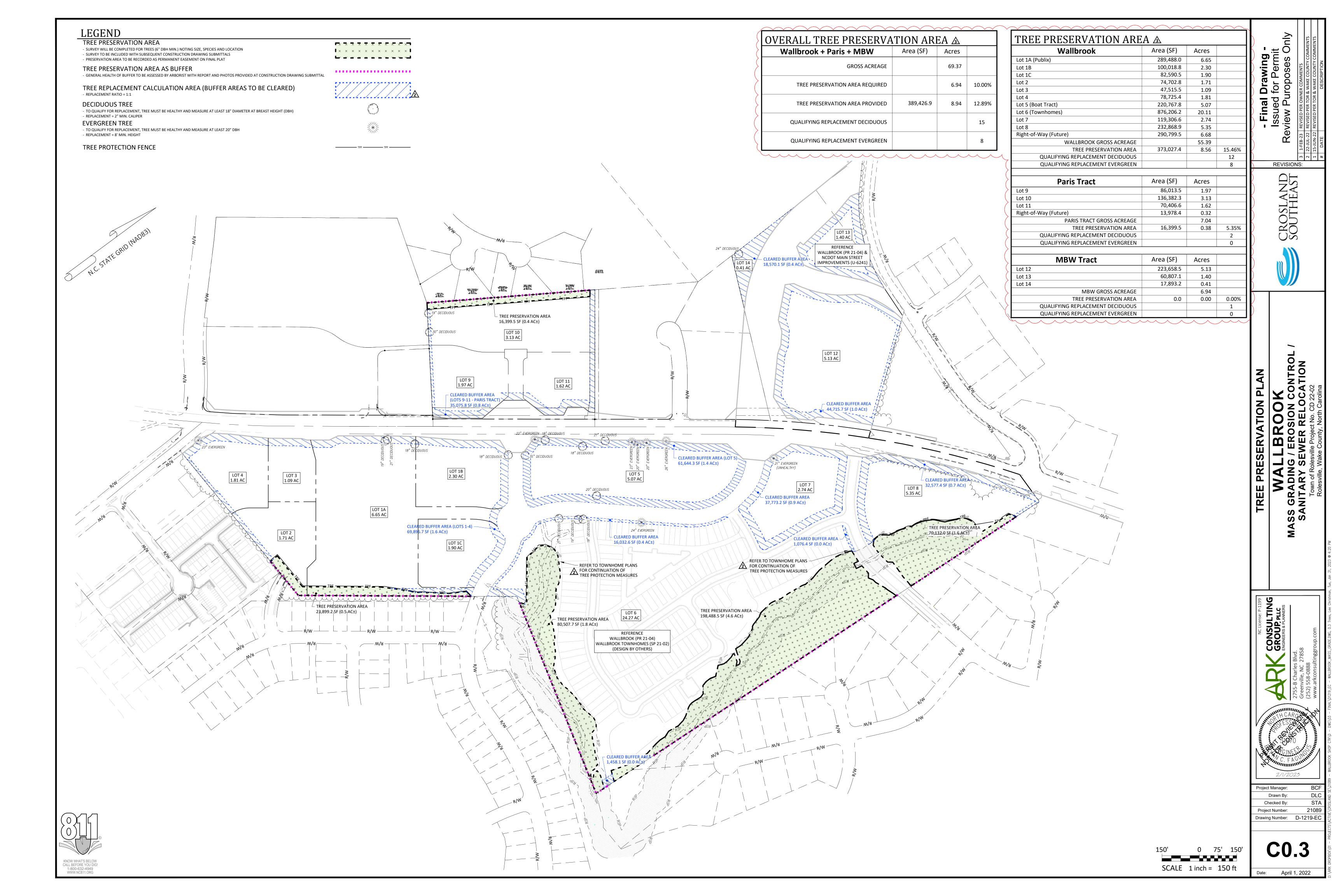
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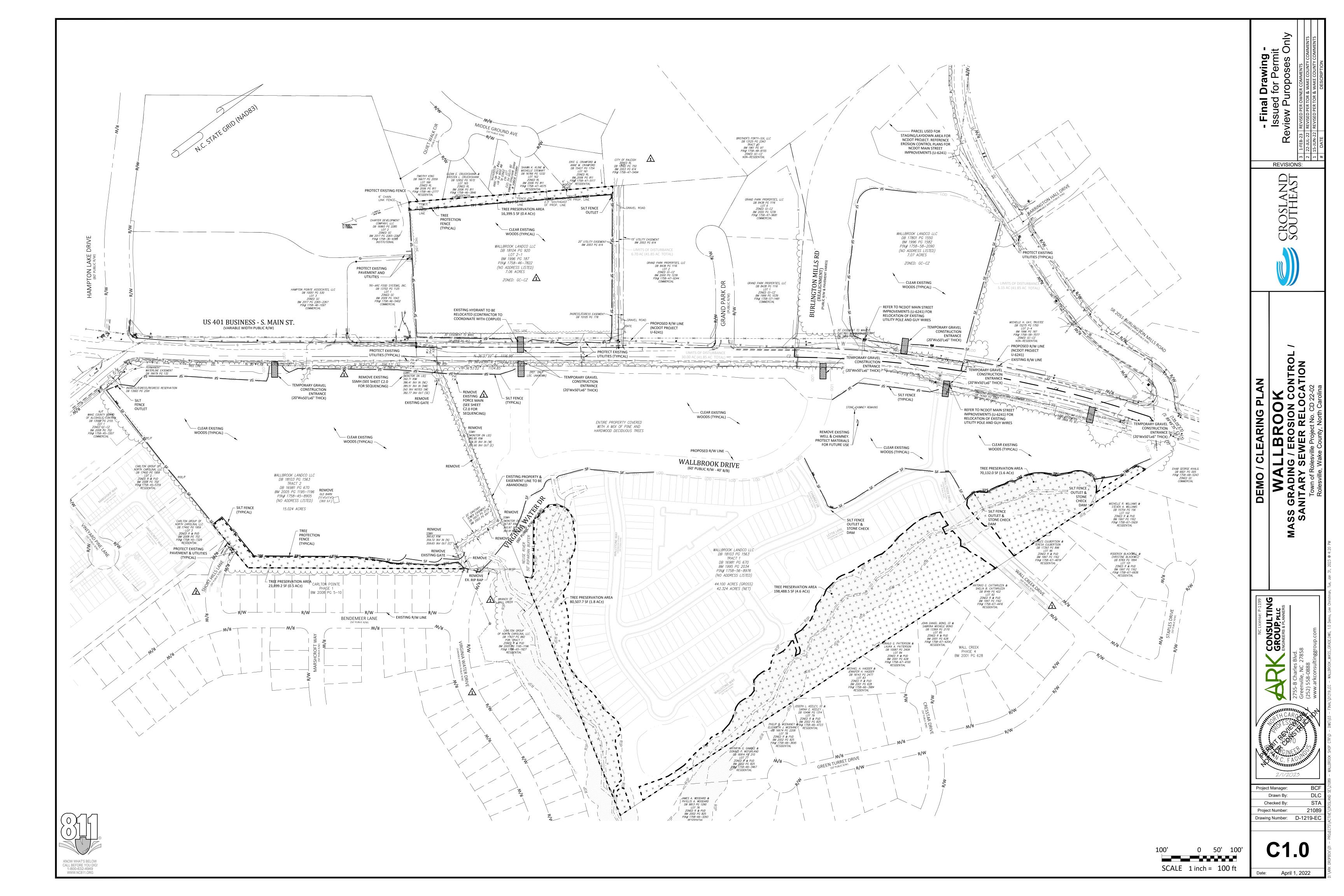
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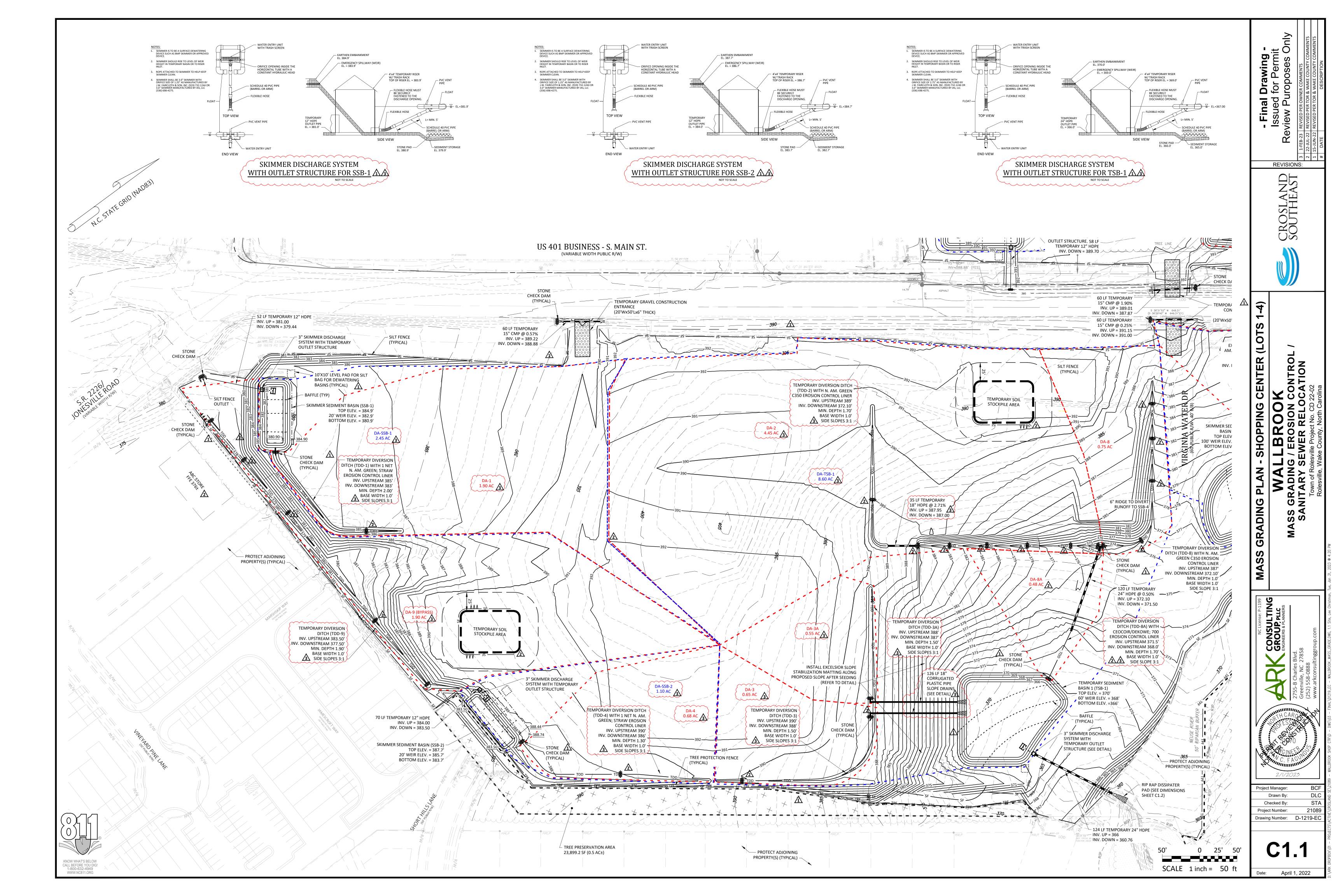
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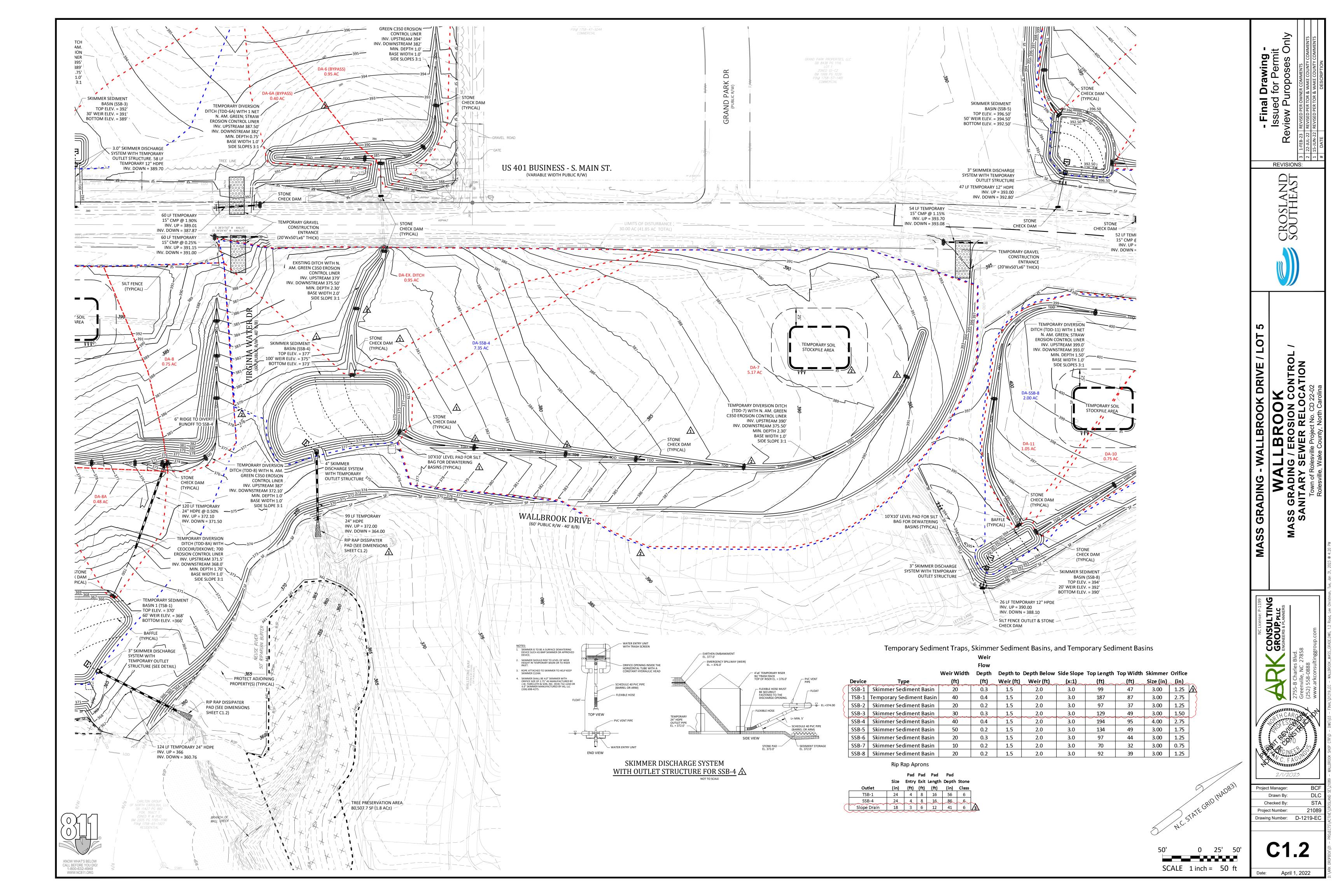
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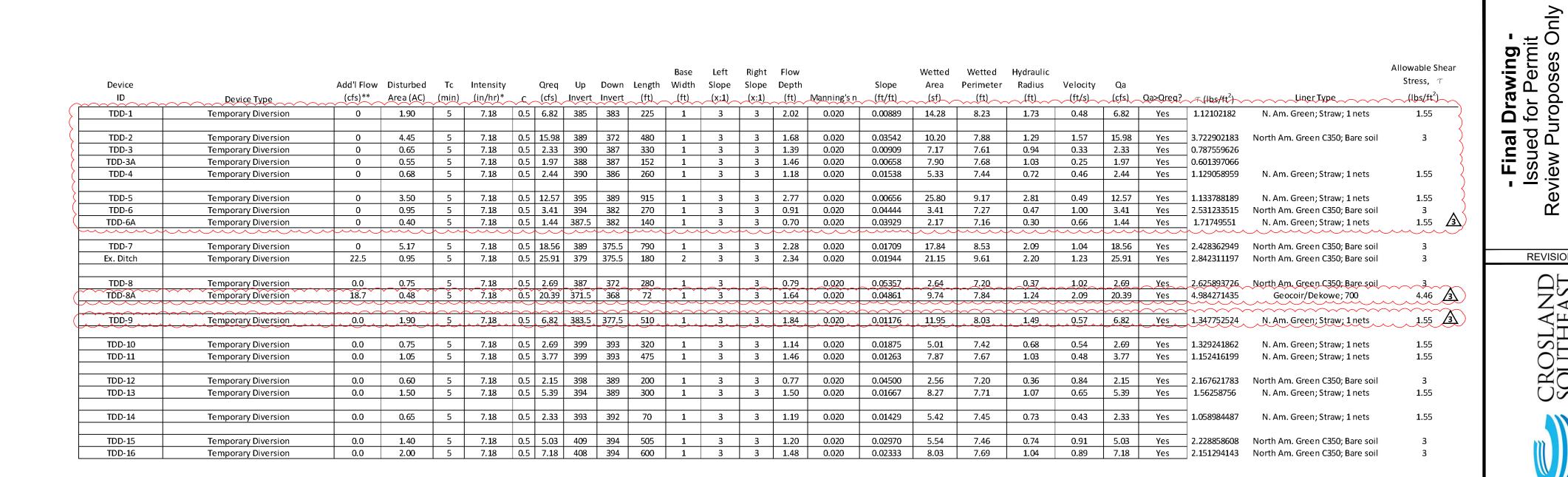
April 1, 2022

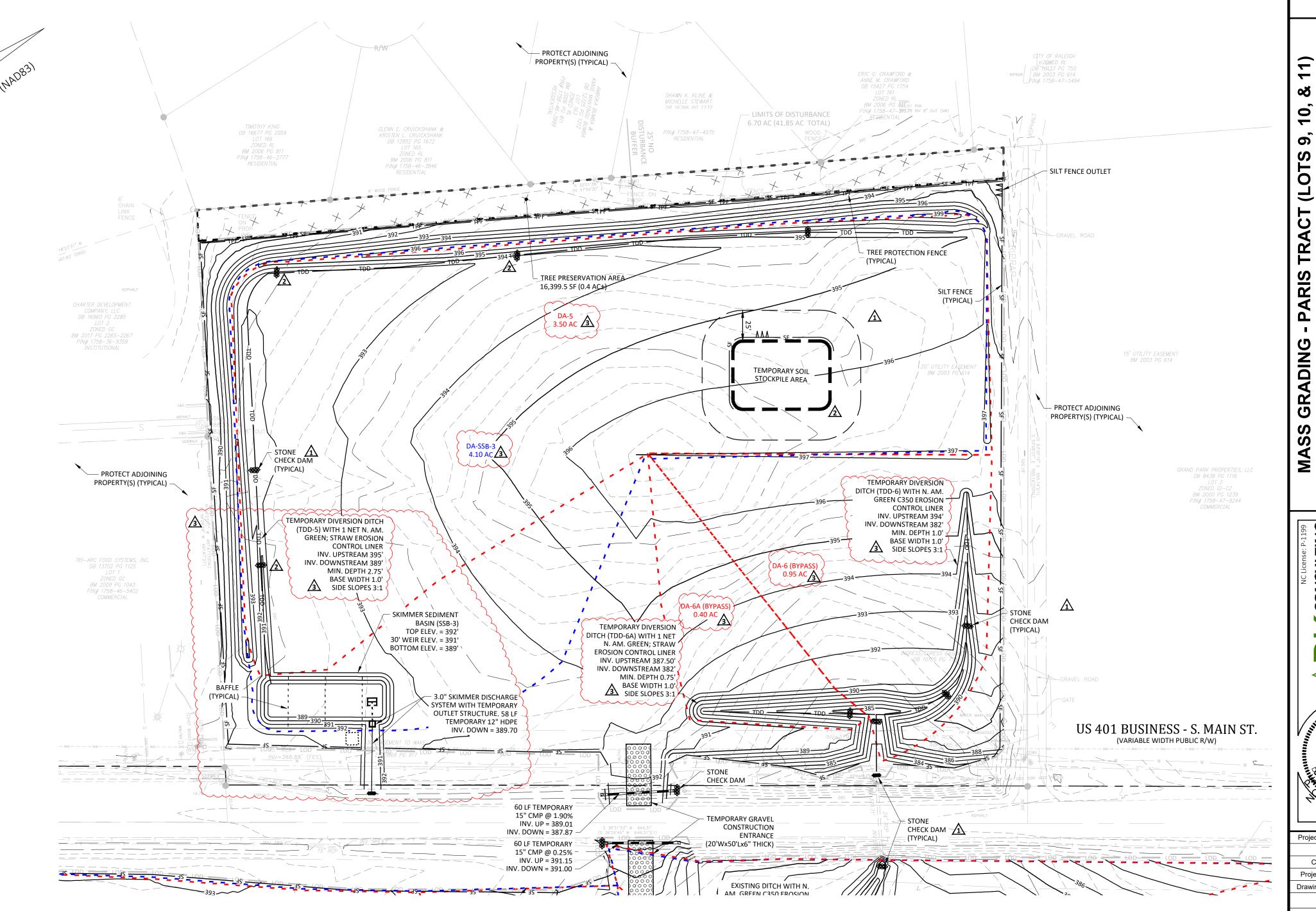














- SCHEDULE 40 PVC PIPE (BARREL OR ARM)

WATER ENTRY UNIT

EL.=391.00

TOP VIEW

END VIEW

SIDE VIEW

SKIMMER DISCHARGE SYSTEM

WITH OUTLET STRUCTURE FOR SSB-3 A

0 25' 50' SCALE 1 inch = 50 ft

Drawing Number: D-1219-EC

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21089

April 1, 2022

Project Manager:

Drawn By:

Checked By:

Project Number:

CONSULTING GROUP, PLLC

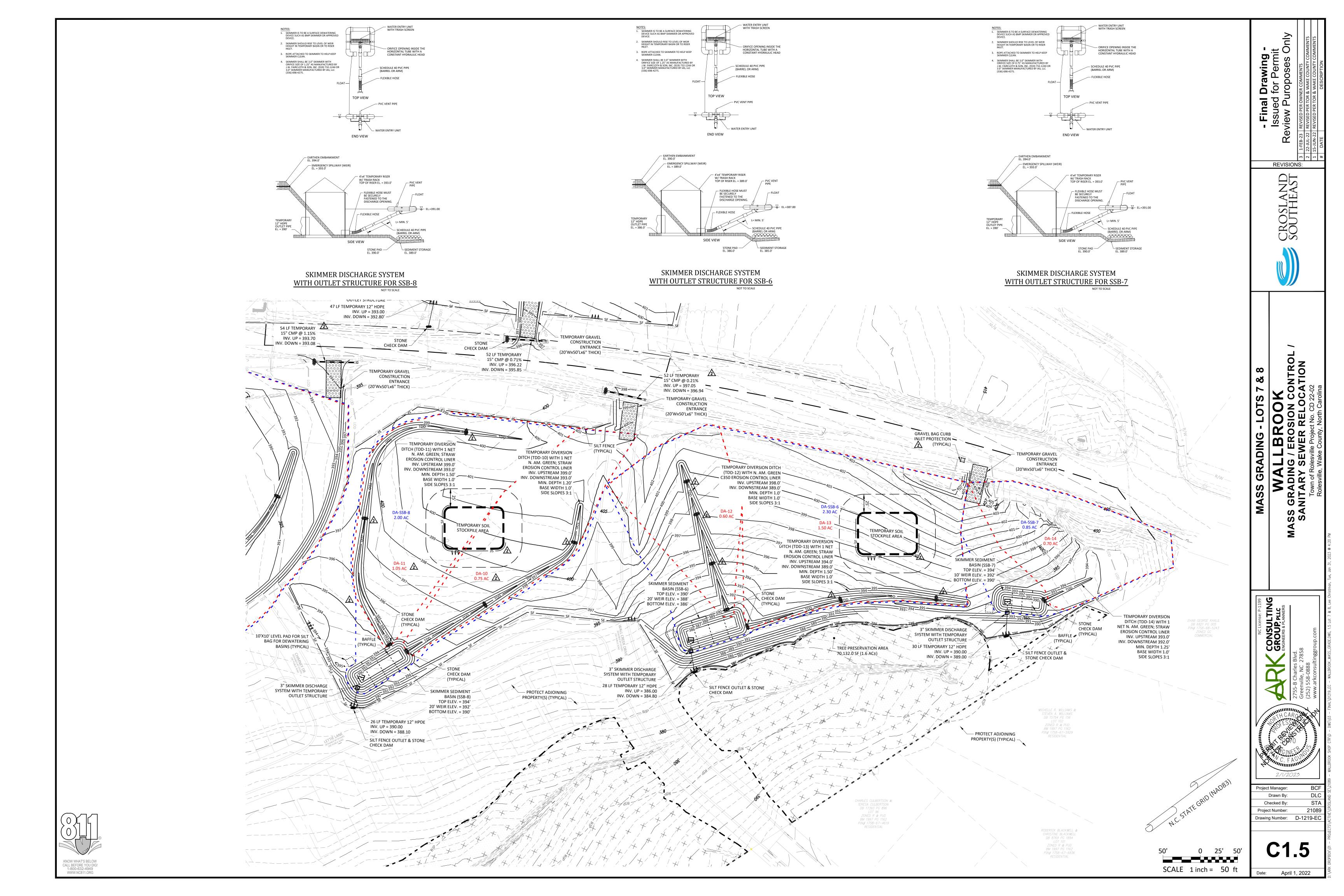
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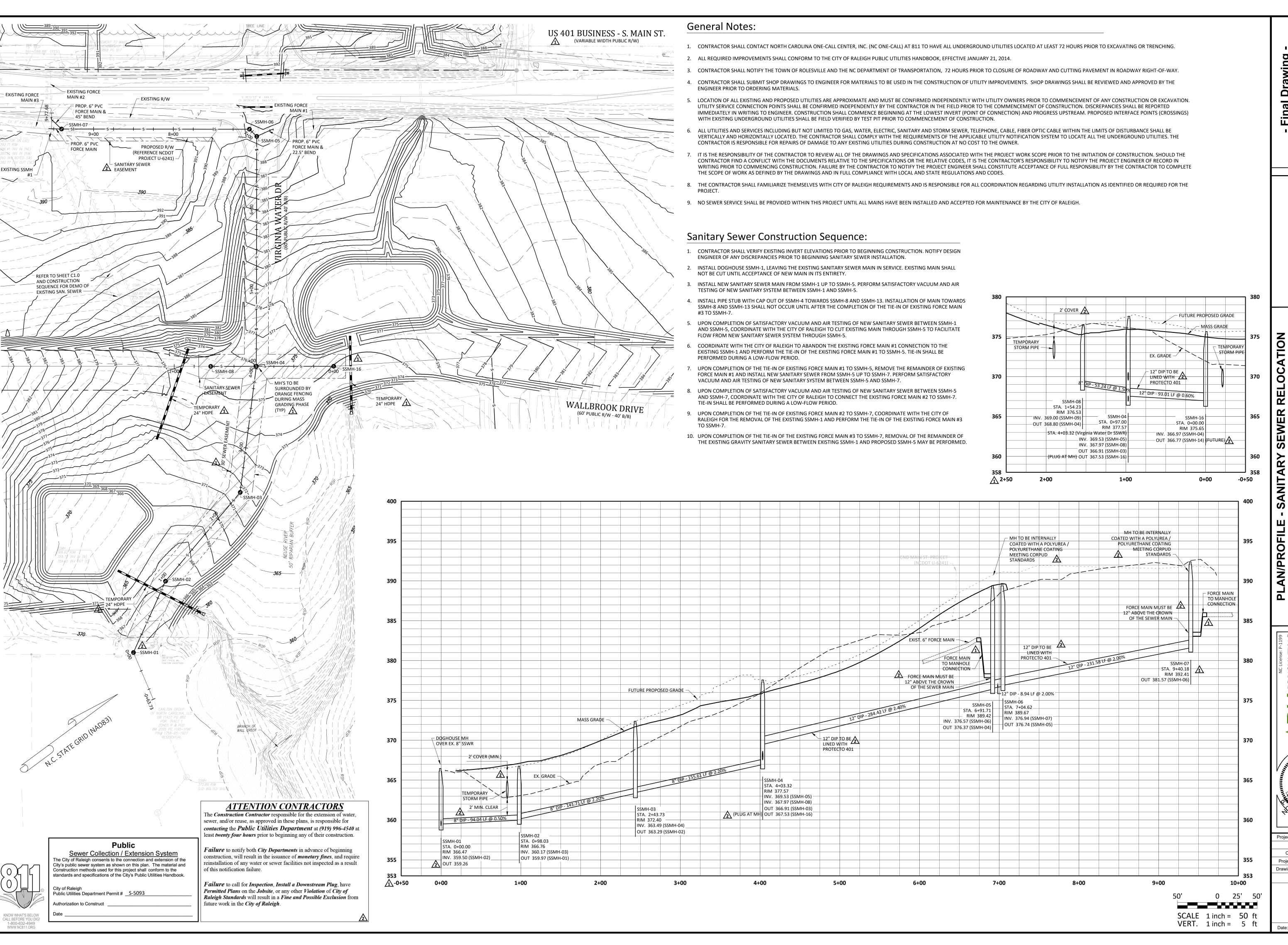
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- Final Drawing - Issued for Permit iew Puroposes Or

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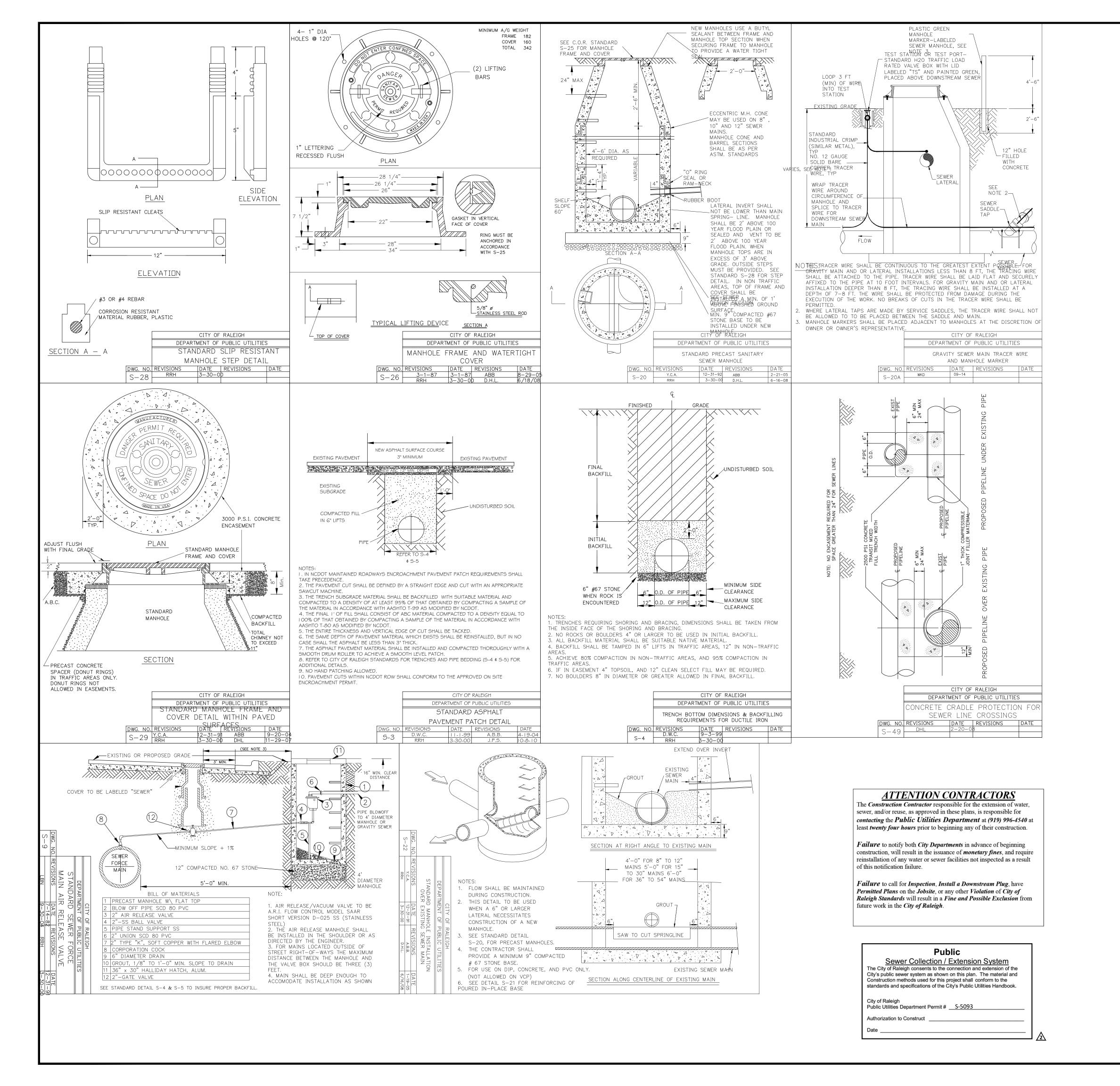
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 STA

 Project Number:
 21089

 Drawing Number:
 D-1219-EC

C2.0

Date: April 1, 2022



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-5093___

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 #_

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 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

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

City of Raleigh Development Approval _ City of Raleigh Review Officer

CORPUD Standard Utility Notes: A

- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK)
- PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATER SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A
- b) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CONNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR.
- PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
- SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
- e) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN & RCP STORM DRAIN CROSSINGS: MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS &
- f) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
- &/OR PROFILE BY CORPUD PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO CORPUD.
- 5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- 6. IT IS THE DEVELOPERS RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY CORPUD. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVIC FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- 7. INSTALL PVC WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2' X 2' WATERLINE EASEMENT IMMEDIATELY ADJACENT.
- 8. INSTALL PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR
- EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM. 9. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
- 10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS PRIOR TO CONSTRUCTION.
- (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO
- 13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NC. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

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 State, and Federal Rules and Regulations.

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

2. UTILITY SEPARATION REQUIREMENTS: a) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR

- c) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER
- d) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM
- A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49).
- 3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN

- 11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK
- 12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

GROUP

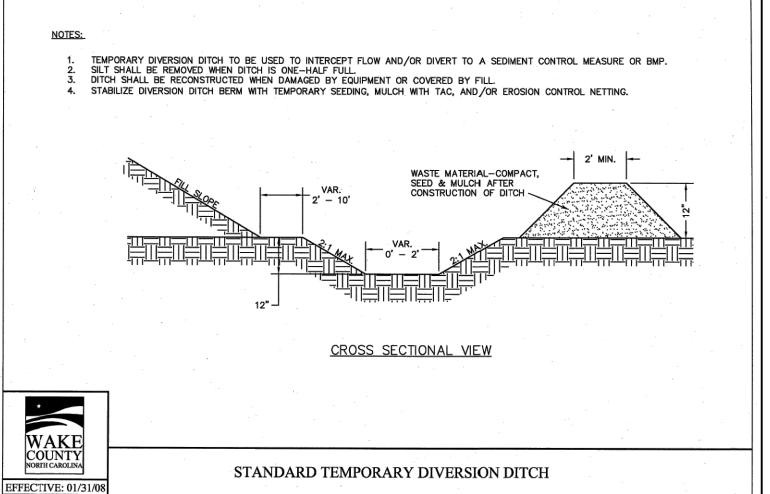
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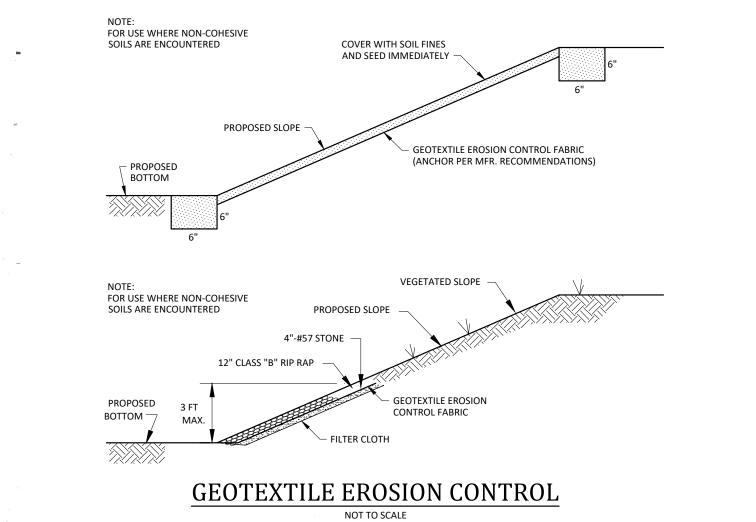
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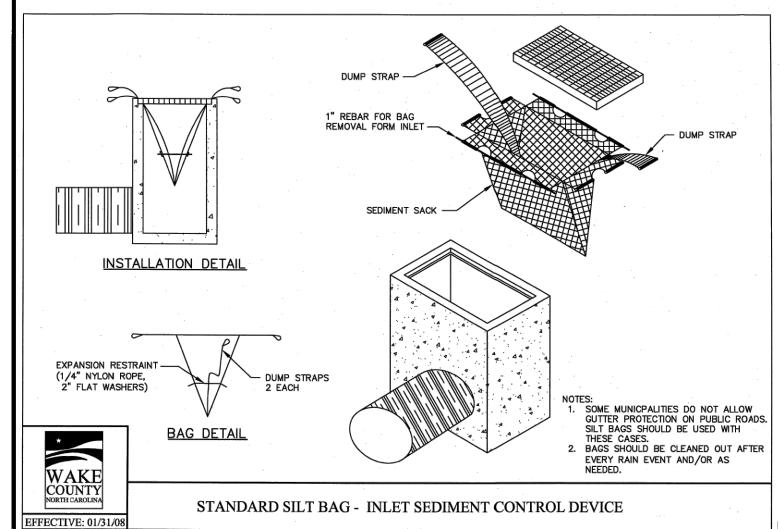
DETAIL

Project Manager: Drawn Bv STA Checked By: 21089 Drawing Number: D-1219-EC

April 1, 2022

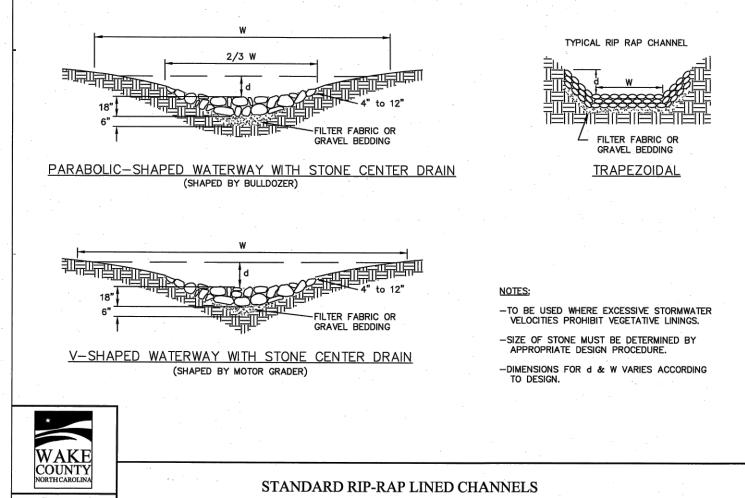


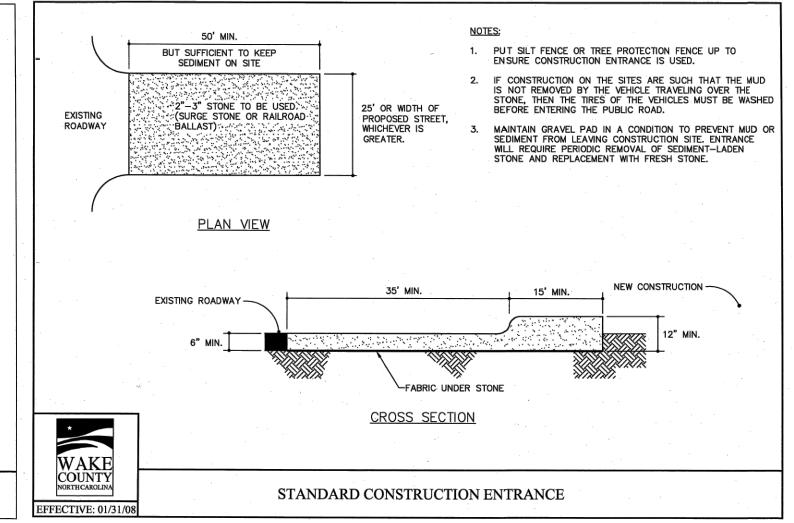


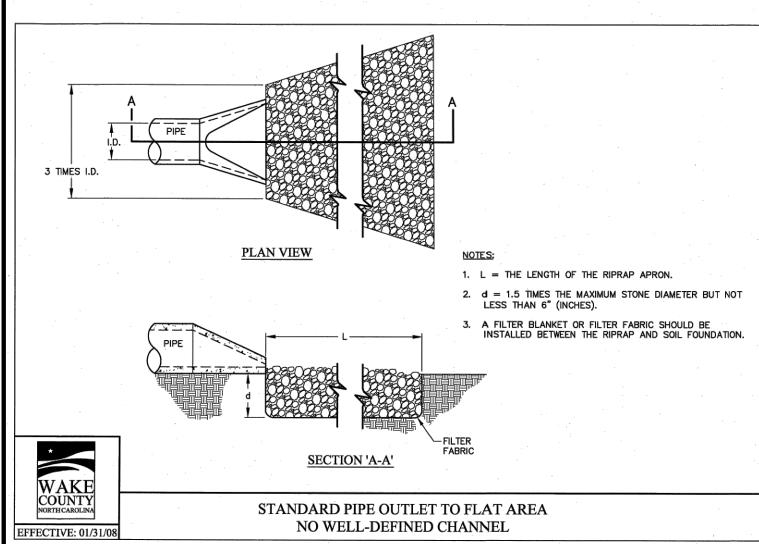


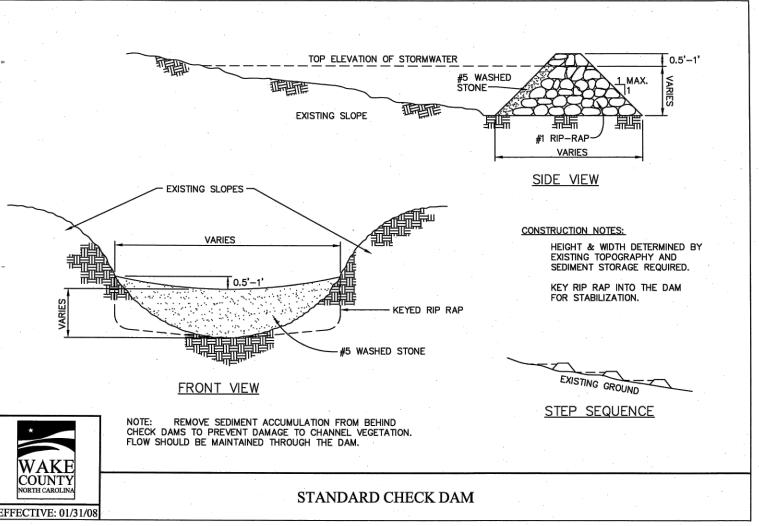
TEMPORARY STOCKPILE

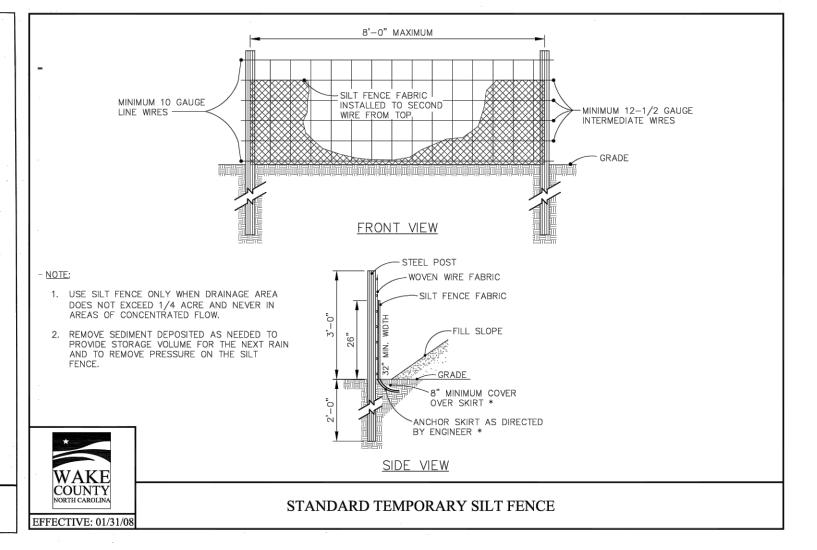
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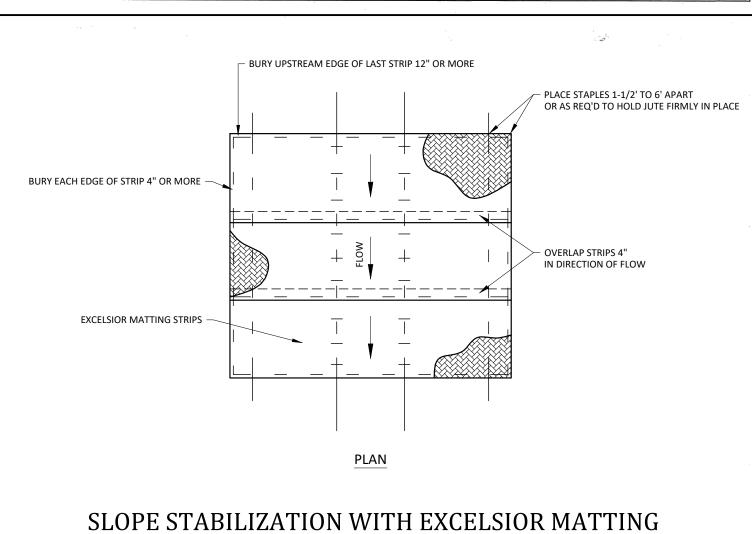


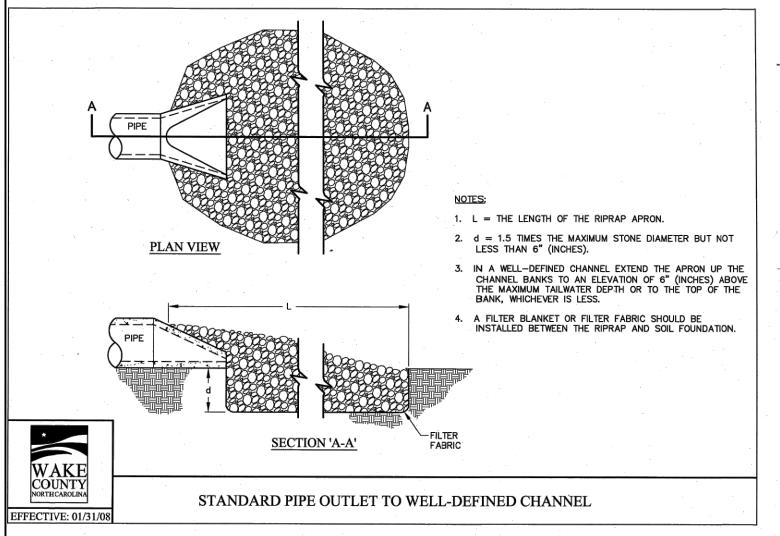


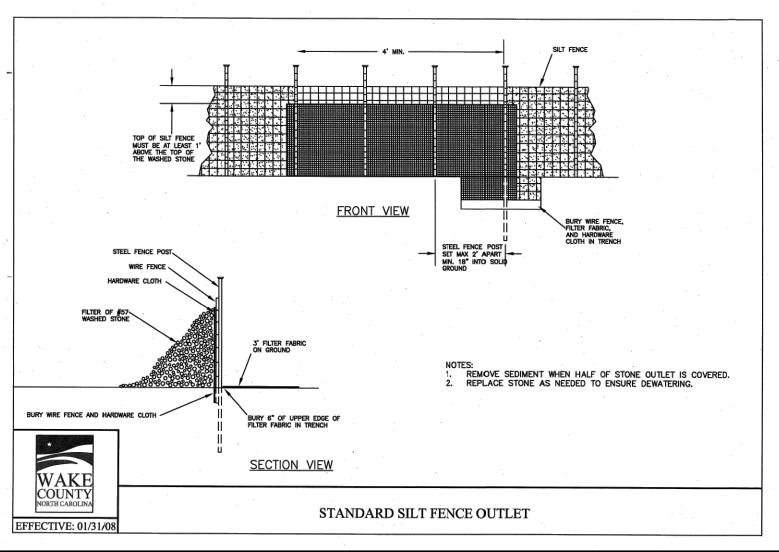












COUNTY Services	336 Fayetteville St. • P.O. Box 550 • Raleigh, NC 2760
WAKE Environmental	Sedimentation & Erosion Contr
	Fax: 919 743 47.

Effective September 1, 2008 Soil stockpiles shall be located on the approved plan and shall adhere to the following requirements:

- a. A 25-foot temporary maintenance and access easement shall be shown
- stockpile shall be shown at the outer limit of this easement). b. Stockpile footprints shall be setback a minimum of 25' from adjacent

around all proposed stockpiles (erosion control measures surrounding the

- property lines. c. A note shall be provided on the approved plan that stockpile height shall
- not exceed 35 feet. d. Stockpile slopes shall be 2:1 or flatter.
- e. Approved BMPs shall be shown on a plan to control any potential sediment loss from a stockpile. f. Stockpiling materials adjacent to a ditch, drainageway, watercourse,
- wetland, stream buffer, or other body of water shall be avoided unless an alternative location is demonstrated to be unavailable. g. Any concentrated flow likely to affect the stockpile shall be diverted to an
- approved BMP. h. Off-site spoil or borrow areas must be in compliance with Wake County UDO and State Regulations. All spoil areas over an acre are required to have an approved sediment control plan. Developer/Contractor shall notify Wake County of any offsite disposal of soil, prior to disposal. Fill of FEMA Floodways and Non-encroachment Areas are prohibited except as otherwise provided by subsection 14-19-2 of the Wake County Unified Development Ordinance (certifications and permits required).

Maintenance Requirements to be Noted on the Plan

- i. Seeding or covering stockpiles with tarps or mulch is required and will reduce erosion problems. Tarps should be keyed in at the top of the slope
- to keep water from running underneath the plastic.
- j. If a stockpile is to remain for future use after the project is complete (builders, etc.), the financial responsible party must notify Wake County of a new responsible party for that stockpile.
- k. The approved plan shall provide for the use of staged seeding and mulching on a continual basis while the stockpile is in use.
- 1. Establish and maintain a vegetative buffer at the toe of the slope (where practical).

Seeding Specifications

NPDES Stormwater Discharge Permit for Construction Activities (NCGO1 - 4/1/19) NCDEQ/Division of Energy, Mineral and Land Resources

	equired Ground Stabi	lization 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 a not steeper than 2-1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 30' length and with slopes steeper the -7 days for perimeter dikes, swale ditches, perimeter slopes and HQ' Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swale: ditches, perimeter slopes and HQV -10 days for Falls Lake Watershed
round stabilization shall to tracticable but in no case	se converted to permi longer than 90 calend	enent ground stabilization as soon a or days after the last land disturbing
ground stabilization shall to practicable but in no case activity. Temporary groun surface stable against acco GROUND STABILIZATION	pe converted to permit longer than 90 calend distabilization shall be elerated erosion until SPECIFICATION lentily so that rain will low:	there is zero slope ction activities, any areas with temp enent ground stabilization as soon a ar days after the last land disturbing maintained in a manner to render permanent ground stabilization is a not distodge the soil. Use one of the

Seedbed Preparation:

- 1. Chisel compacted areas and spread topsoil three inches deep over adverse
- soil conditions, if available.
- 2. Rip the entire area to six inches deep. 3. Remove all loose rock, roots and other obstructions, leaving surface reasonably smooth and uniform.
- 4. Apply agricultural lime, fertilizer and superphosphate uniformly and mix with soil (see mixture below).
- 5. Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared four to six inches deep
- 6. Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding.
- Mulch immediately after seeding and anchor mulch.
- 8. Inspect all seeded areas and make necessary repairs or reseedings within the planting season, if possible. If stand should be more than 60% damaged, re-
- 9. Consult Wake County Soil & Water or NC State Cooperative Extension on

2 tons/acre – small grain straw

Asphalt emulsion at 400 gals/acre

300 lbs/acre

establish following the original lime, fertilizer and seeding rates. maintenance treatment and fertilization after permanent cover is established.

Agricultural Limestone 2 tons/acre (3 tons/acre in clay soils) 1,000 lbs/acre - 10-10-10 500 lbs/acre - 20% analysis

Aug 15- Nov 1 Aug 15- Tall Fescue 300 lbs/acre	
Nov 1	
Nov 1– Mar 1 Tall Fescue & Abruzzi Rye 300 lbs/acre	

Apr 15- Hulled Common 25 lbs/acre Jun 30 Bermudagrass

Jul 1- Tall Fescue AND Browntop 125 lbs/acre (Tall Fescue); 35 Aug 15 Millet or Sorghum-Sudan lbs/acre (Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids)

For Shoulders, Side Ditches, Slopes (3:1 to 2:1)

Date	Туре	Planting Rate
Mar 1– Jun 1	Sericea Lespedeza (scarified) and use the following combinations:	50 lbs/acre (Sericea Lespedeza);
Mar 1– Apr 15	Add Tall Fescue	120 lbs/acre
Mar 1– Jun 30	Or add Weeping Love grass	10 lbs/acre
	Or add Hulled Common Bermudagrass	25 lbs/acre
Jun 1– Sept 1	Tall Fescue AND Browntop Mullet or Sorghum-Sudan Hybrids***	120 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Mullet); 30 lbs/acre (Sorghum-Sudan Hybrids)
Sept 1– Mar 1	Sericea Lespedeza (unhulled – unscarified) AND Tall Fescue	70 lbs/acre (Sericea Lespedeza); 120 lbs/acre (Tall Fescue)

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 are possible.

*** **TEMPORARY**: 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 may be shaded out.

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Re REVISIONS:

CROSLAND Southeast

ETAILS

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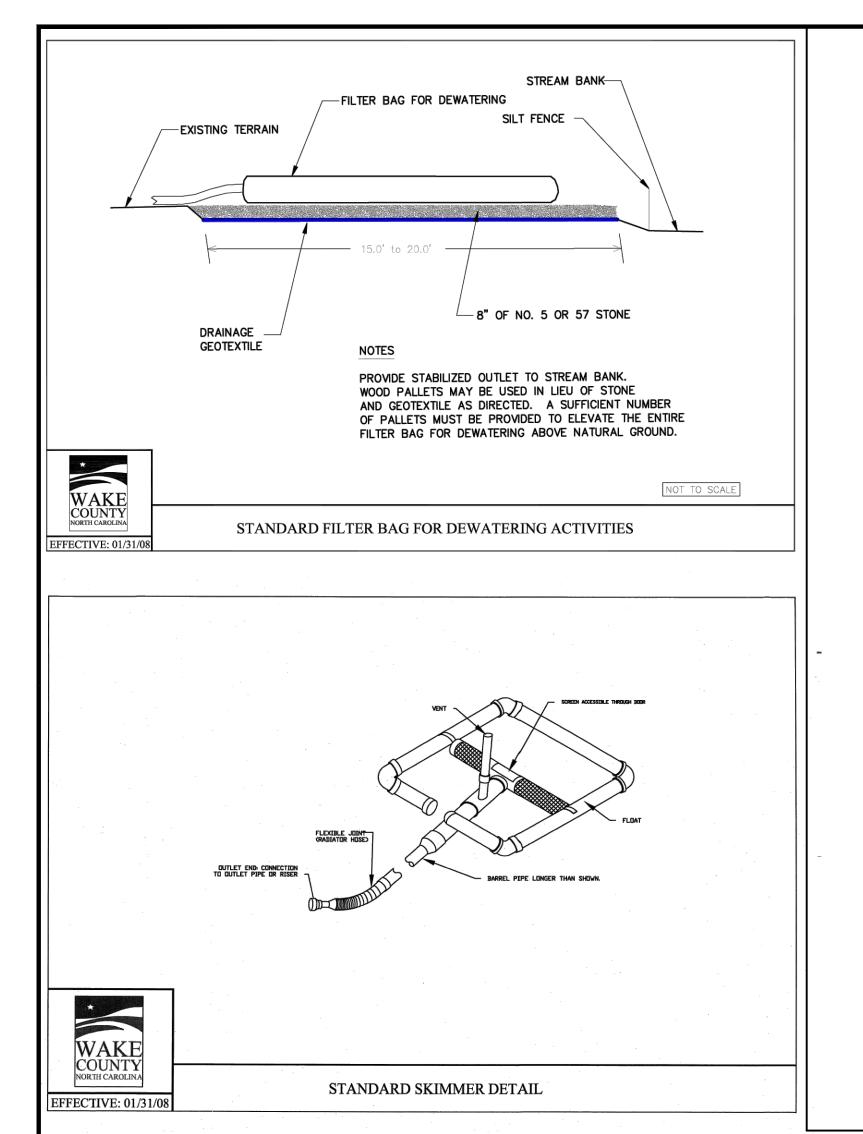
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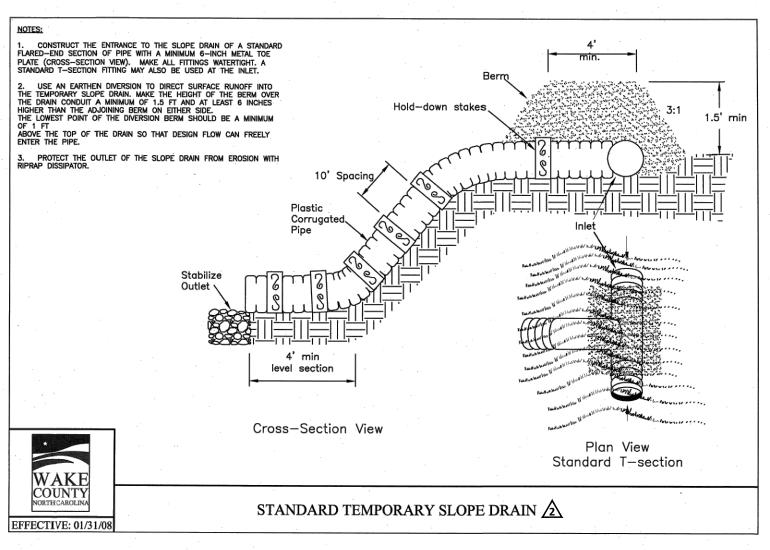
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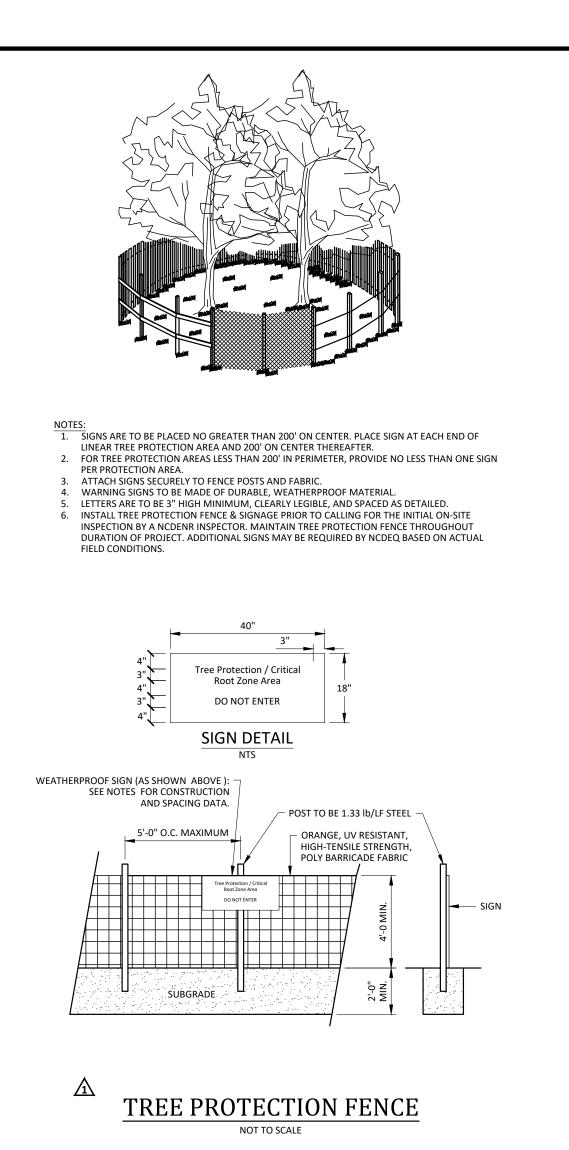
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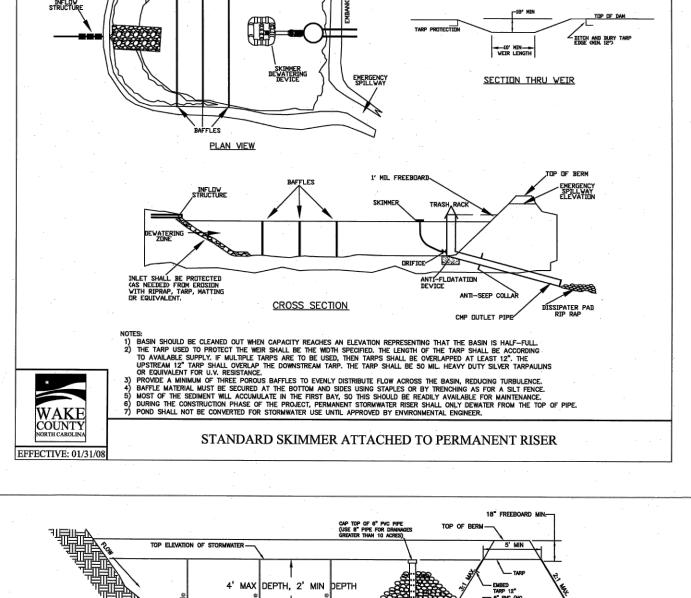
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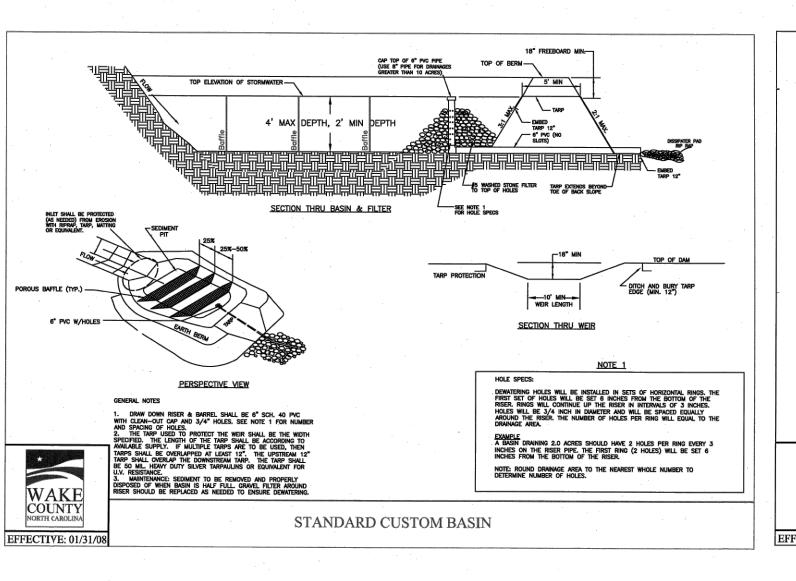
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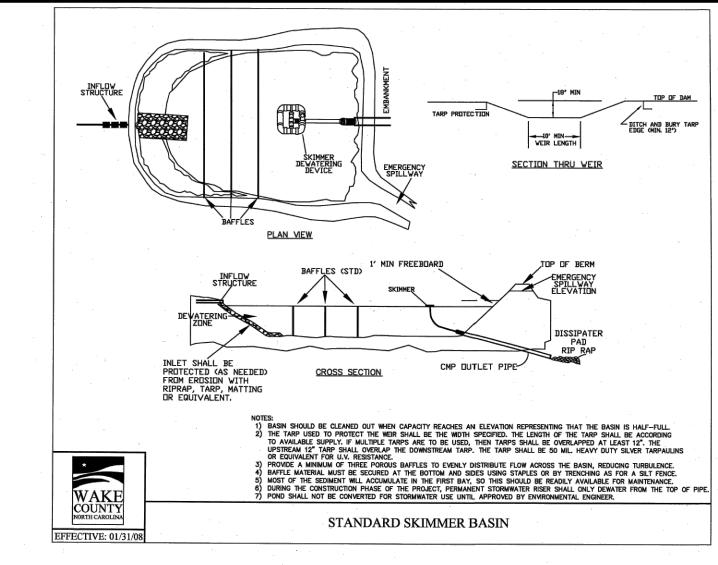


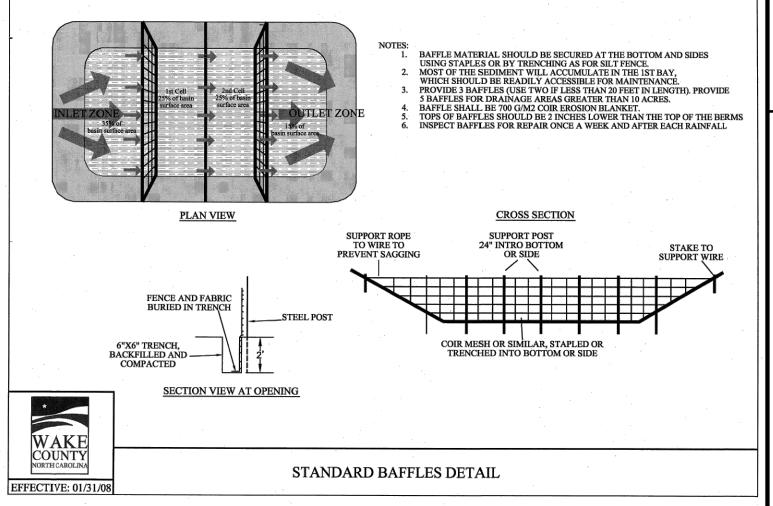














EROSION

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REVISIONS:

CROSLAND SOUTHEAST

C3.2

Drawing Number: D-1219-EC

21089

: April 1, 2022