### Prior to any clearing, grading or construction activity, tree protection fencing shall be installed around protected trees or groves of trees. No construction workers, tools, materials, or vehicles are permitted within the tree protection fencing. 2. Any trees and/or areas designated to be protected must be properly barricaded with fencing and protected throughout construction to insure that no clearing, grading or staging of materials will occur in 3. No equipment is allowed on site until all tree protection fencing and silt fencing is installed and approved. Protective fencing is to be maintained throughout the duration of the project, and contractors shall receive adequate instruction on tree protection methods. 4. All pavement markings in public rights—of—way and for driveways are to be thermoplastic and meet City and/or NCDOT standards. 5. Once streets are open to traffic, contact Traffic Engineering regarding the installation of traffic and street name signs. Proposed street names must be approved prior to installation of street name signs.

6. Traffic control devices (including signs and pavement markings) in areas open to public traffic are to meet MUTCD (Manual on Uniform Traffic Control Devices) standards. 7. Contact Traffic Engineering at 910-341-7888 to ensure that all traffic signal facilities and equipment

8. Call Traffic Engineering at 910-341-7888 forty-eight (48) hours prior to any excavation in the

3. Traffic Engineering must approve of pavement marking prior to actual striping. 0. All parking stall markings and lane arrows within the parking areas shall be white. 1. All traffic control signs and markings off the right-of-way are to be maintained by the property

2. Stop signs and street signs to remain in place during construction. 3. Tactile warning mats will be installed on all wheelchair ramps.

4. A utility cut permit is required for each open cut of a city street.

5. Any broken or missing sidewalk panels, driveway panels and curbing will be replaced. 6. Contact Traffic Engineering at (910) 341-7888 to discuss street lighting options

7. Water and sewer service shall meet Cape Fear Public Utility Authority (CFPUA) details and 18, Project shall comply with CFPUA Cross Connection Control requirements. Water meter(s) cannot be released until all requirements are met and the State has given their final approval. Call 910-332-6558

19. If the contractor desires CFPUA water for construction, he shall apply in advance for this service and must provide a reduced pressure zone (RPZ) backflow prevention device on the developer's side of the

20. Any irrigation system supplied by CFPUA water shall comply with the CFPUA Cross Connection Control regulations. Call 919-332-6558 for information.

1. Any irrigation system shall be equipped with a rain and freezer sensor.

22. Any backflow prevention devices required by the CFPUA will need to be on the list of approved devices by USCFCCCHR or ASSE.

23. Contractor to field verify existing water and sewer service locations, sizes and materials prior to construction. Engineer to be notified of any conflicts.

24. Contractor shall maintain all—weather access for emergency vehicles at all times during construction. 25. Underground fire line(s) must be permitted and inspected by the Wilmington Fire Department from th public right-of-way to the building. Contact the Wilmington Fire Department Division of Fire and Life

26. No obstructions are permitted in the space between thirty (30) inches and ten (10) feet above the ground within the triangular sight distance.

27. Contact the North Carolina One Call Center at 1-800-632-4949 prior to doing any digging, clearing,

## DEVELOPMENT DATA

DEVELOPMENT NAME: STREET ADDRESS:

TOTAL SITE AREA:

2018 SOUTH 16TH STREET WILMINGTON, NORTH CAROLINA NEW HANOVER COUNTY

0.769 AC (33,498 SF)

PROPERTY IDENTIFICATION # (PIN): R06007-002-010-003

ZONING DISTRICT(S):

0-I-1 (OFFICE AND INSTITUTIONAL DISTRICT 1)

OVERLAY DISTRICT: CAMA LAND USE CLASSIFICATION: DEVELOPED

INSIDE TOWN LIMITS

EXISTING USE: BANK/LAW FIRM

PROPOSED BUILDING USE: RESTAURANT WITH DRIVE-THRU 2,510 SF PROPOSED TOTAL BUILDING AREA:

MAX. BUILDING HEIGHT: MAXIMUM LOT COVERAGE (BUILDING): MIN LOT AREA: 15,000 SF MIN LOT WIDTH: 20 FT FRONT SETBACK: REAR SETBACK:

SIDE SETBACK: 20 FT (HOSPITAL PLAZA BOULEVARD) SIDE SETBACK: 10 FT (INTERIOR)

STREET YARD BUFFER: 18 FT AVERAGE (9 FT MIN, 27 FT MAX) (SOUTH 16TH STREET) PERIMETER PARKING BUFFER:

12% OF BUILDING FACE AREA

FOUNDATION PLANTINGS: OFF-STREET PARKING:

PROPOSED BUILDING AREA: 2,510 SF (75 SEATS)

TOTAL REQUIRED: MAXIMUM:

1 PER 2.5 SEATS OR 1 PER 65 SF GFA EXCLUSIVE OF KITCHEN AND RESTROOM 75 SEATS/2.5 = 30 SPACES

1 PER 4 SEATS OR 1 PER 80 SF GFA EXCLUSIVE OF KITCHEN AND RESTROOM MINIMUM: 75 SEATS/4 = 19 SPACES

TOTAL PROVIDED: ACCESSIBLE SPACES PROVIDED:

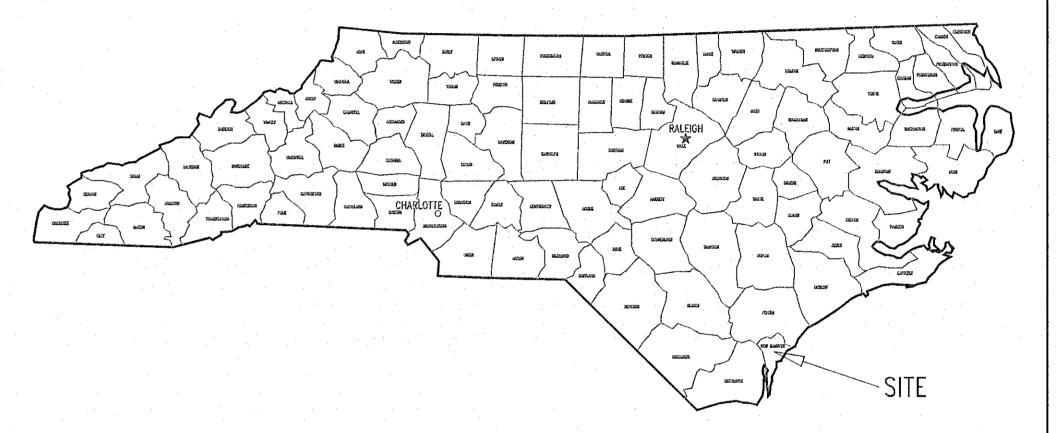
PARKING SPACE DIMENSIONS: 9'x18' BICYCLE PARKING: 5 SPACES REQUIRED

LOADING AREA:

# CONSTRUCTION DOCUMENTS Proposed



# Starbucks 2018 South 16th Street Wilmington, North Carolina New Hanover County



DEVELOPER/PROPERTY OWNER Wilmington NC 2018, LLC Hartzog Holdings, LLC Attn. Collins Hartzog 109 Still Wild Lane Elgin, SC 29045 803-361-6718 collins@hartzogholdings.com

IMPERVIOUS AREA SUMMARY

2,510 SF 0.06 ACRE(S) 7.5 %

16,795 SF 0.39 ACRE(S) 50.1 %

TOTAL IMPERVIOUS AREA 18,900 SF 0.43 ACRE(S) 56.4 % GREEN/OPEN SPACE 14,598 SF 0.34 ACRE(S) 43.6 % EXISTING IMPERVIOUS AREA TO BE DEMOLISHED: 20,340 SF

EXEMPT FROM 25-YEAR PRE/POST ATTENUATION REQUIREMENT

POROUS CONCRETE -2,080 SF 0.05 ACRE(S) 6.2 % (TYPE A SOILS,100% PERVIOUS

PAVEMENT

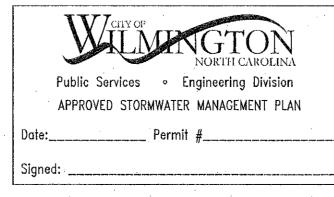
SIDEWALK

DECREASE IN IMPERVIOUS AREA:

# CIVIL ENGINEER

Triangle Site Design, PLLC 4004 Barrett Drive Suite 101 Raleigh, NC 27609 (919)553-6570mlowder@trianglesitedesign.com NC License#P-0619





# INDEX OF DRAWINGS

VICINITY MAP

HOSPITAL PLAZA DR

DOCTOR'S CIR

CITY OF WILMINGTON

Know what's below

Call before you dig

BEFORE YOU DIG

CALL 1 800 632-4949 N.C. ONE-CALL CENTER

COVER SHEET

EXISTING CONDITIONS PLAN

SITE PLAN

GRADING & DRAINAGE PLAN

UTILITY PLAN UTILITY DETAILS

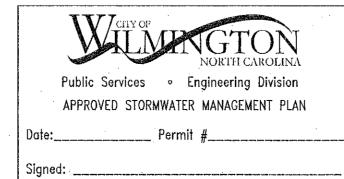
CONSTRUCTION DETAILS

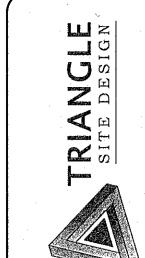
STORMWATER MANAGEMENT DETAILS

EROSION CONTROL PLAN

EROSION CONTROL DETAILS

LANDSCAPE PLAN





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mlowder@trianglesitedesign.com





Owner/Developer Hartzog Holdings, LLC Attn. Collins Hartzog 109 Still Wild Lane Elgin, SC 29045 803-361-6718 collins@hartzogholdings.com



Street <del>6</del> Starbuck 2018 South 16t Wilmington, North New Hanover C

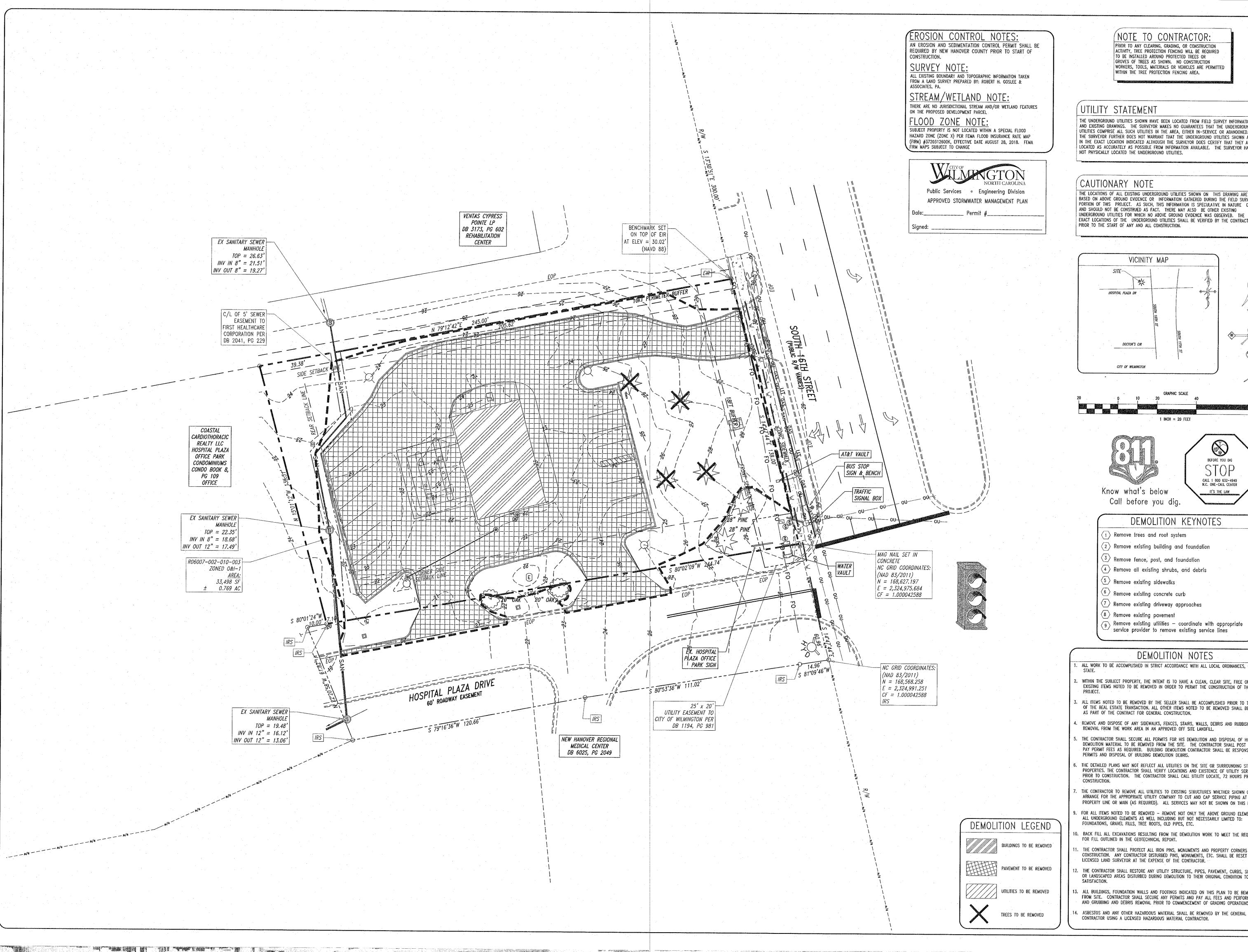
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Checked

January 15, 2019 COVER

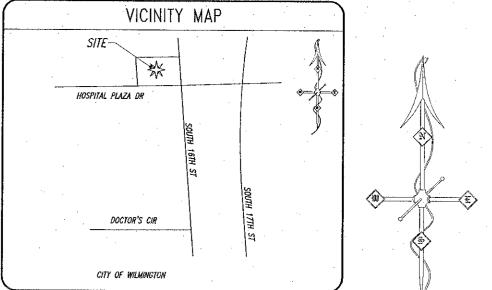
SHEET

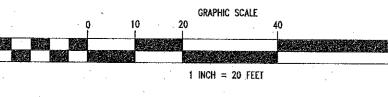


NOTE TO CONTRACTOR:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED ON ABOVE GROUND EVIDENCE OR INFORMATION GATHERED DURING THE FIELD SURVEY PORTION OF THIS PROJECT. AS SUCH, THIS INFORMATION IS SPECULATIVE IN NATURE ONLY AND SHOULD NOT BE CONSTRUED AS FACT. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF THE UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR







## DEMOLITION KEYNOTES

BEFORE YOU DIG

CALL 1 800 632-4949

IT'S THE LAW

(2) Remove existing building and foundation

3) Remove fence, post, and foundation

(4) Remove all existing shrubs, and debris

(5) Remove existing sidewalks

6 Remove existing concrete curb

7 Remove existing driveway approaches.

## DEMOLITION NOTES

ALL WORK TO BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL LOCAL ORDINANCES, CITY OR

WITHIN THE SUBJECT PROPERTY, THE INTENT IS TO HAVE A CLEAN, CLEAR SITE, FREE OF ALL EXISTING ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW

ALL ITEMS NOTED TO BE REMOVED BY THE SELLER SHALL BE ACCOMPLISHED PRIOR TO THE CLOSING OF THE REAL ESTATE TRANSACTION. ALL OTHER ITEMS NOTED TO BE REMOVED SHALL BE DONE SO AS PART OF THE CONTRACT FOR GENERAL CONSTRUCTION.

REMOVE AND DISPOSE OF ANY SIDEWALKS, FENCES, STAIRS, WALLS, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED OFF SITE LANDFILL.

THE CONTRACTOR SHALL SECURE ALL PERMITS FOR HIS DEMOLITION AND DISPOSAL OF HIS DEMOLITION MATERIAL TO BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL POST BONDS AND PAY PERMIT FEES AS REQUIRED. BUILDING DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR

THE DETAILED PLANS MAY NOT REFLECT ALL UTILITIES ON THE SITE OR SURROUNDING STREETS AND PROPERTIES. THE CONTRACTOR SHALL VERIFY LOCATIONS AND EXISTENCE OF UTILITY SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL UTILITY LOCATE, 72 HOURS PRIOR TO

. THE CONTRACTOR TO REMOVE ALL UTILITIES TO EXISTING STRUCTURES WHETHER SHOWN OR NOT OR ARRANGE FOR THE APPROPRIATE UTILITY COMPANY TO CUT AND CAP SERVICE PIPING AT THE

PROPERTY LINE OR MAIN (AS REQUIRED). ALL SERVICES MAY NOT BE SHOWN ON THIS PLAN. FOR ALL ITEMS NOTED TO BE REMOVED - REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALL UNDERGROUND ELEMENTS AS WELL INCLUDING BUT NOT NECESSARILY LIMITED TO:

. BACK FILL ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK TO MEET THE REQUIREMENTS

THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING CONSTRUCTION. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, ETC. SHALL BE RESET BY A

2. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPES, PAVEMENT, CURBS, SIDEWALKS OR LANDSCAPED AREAS DISTURBED DURING DEMOLITION TO THEIR ORIGINAL CONDITION TO THE

13. ALL BUILDINGS, FOUNDATION WALLS AND FOOTINGS INDICATED ON THIS PLAN TO BE REMOVED FROM SITE. CONTRACTOR SHALL SECURE ANY PERMITS AND PAY ALL FEES AND PERFORM CLEARING AND GRUBBING AND DEBRIS REMOVAL PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.

CONTRACTOR USING A LICENSED HAZARDOUS MATERIAL CONTRACTOR.

NG

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<del>-</del> Starbuck 2018 South 16t Wilmington, North New Hanover C

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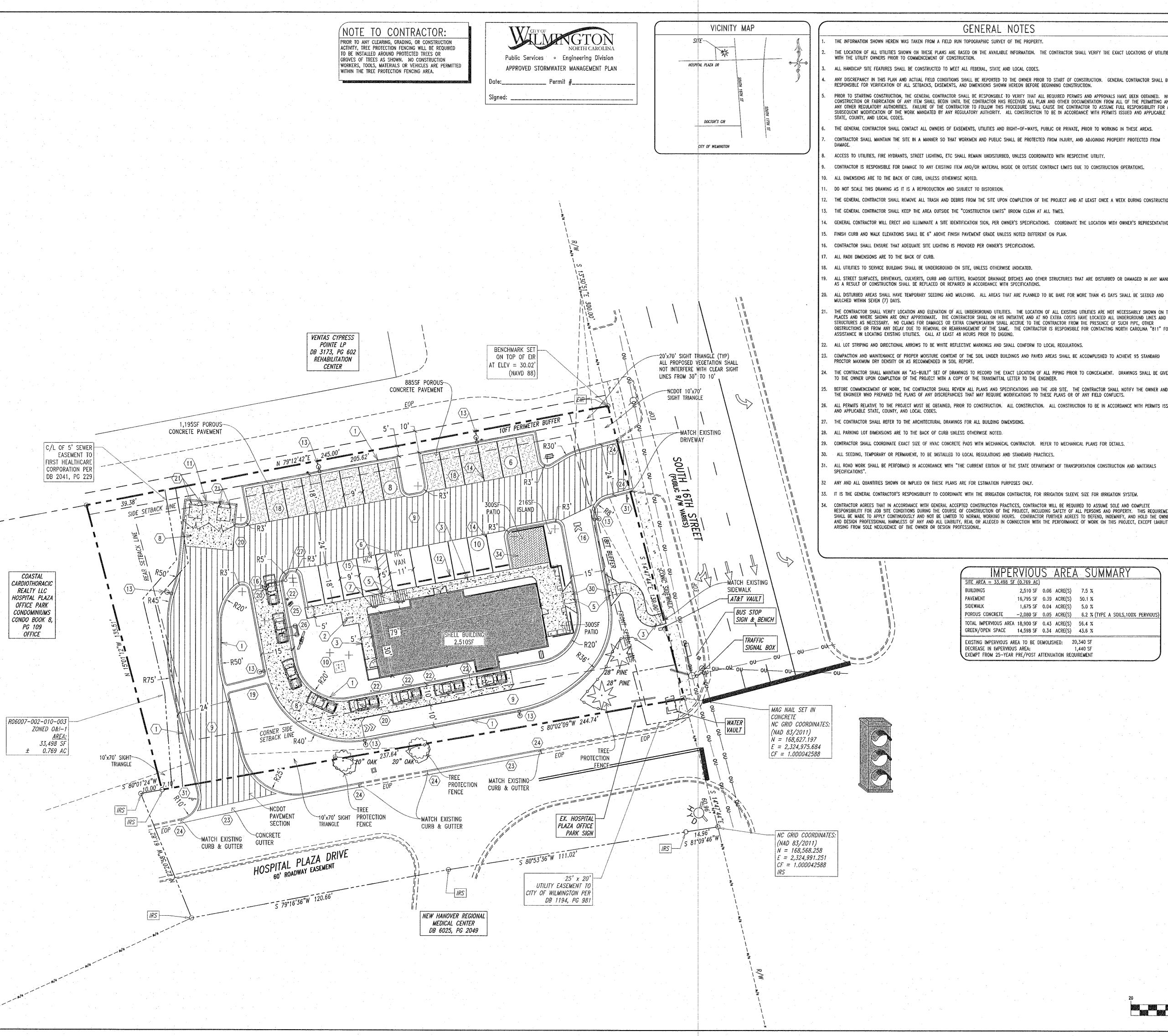
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Checked Approved

January 15, 2019

**EXISTING** CONDITIONS PLAN



- THE LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF UTILITIES
- ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL BE
- PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLAN AND OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. FAILURE OF THE CONTRACTOR TO FOLLOW THIS PROCEDURE SHALL CAUSE THE CONTRACTOR TO ASSUME FULL RESPONSIBILITY FOR ANY
- THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
- CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE CONTRACT LIMITS DUE TO CONSTRUCTION OPERATIONS.
- THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
- GENERAL CONTRACTOR WILL ERECT AND ILLUMINATE A SITE IDENTIFICATION SIGN, PER OWNER'S SPECIFICATIONS. COORDINATE THE LOCATION WITH OWNER'S REPRESENTATIVE.
- FINISH CURB AND WALK ELEVATIONS SHALL BE 6" ABOVE FINISH PAVEMENT GRADE UNLESS NOTED DIFFERENT ON PLAN.
- ALL STREET SURFACES, DRIVEWAYS, CULVERTS, CURB AND GUTTERS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER
- ALL DISTURBED AREAS SHALL HAVE TEMPORARY SEEDING AND MULCHING. ALL AREAS THAT ARE PLANNED TO BE BARE FOR MORE THAN 45 DAYS SHALL BE SEEDED AND
- THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLACES AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE. OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING NORTH CAROLINA "811" FOR
- COMPACTION AND MAINTENANCE OF PROPER MOISTURE CONTENT OF THE SOIL UNDER BUILDINGS AND PAYED AREAS SHALL BE ACCOMPLISHED TO ACHIEVE 95 STANDARD
- THE CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN
- BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE OWNER AND
- THE ENGINEER WHO PREPARED THE PLANS OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATIONS TO THESE PLANS OR OF ANY FIELD CONFLICTS.
- ALL PERMITS RELATIVE TO THE PROJECT MUST BE OBTAINED, PRIOR TO CONSTRUCTION. ALL CONSTRUCTION. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED
- CONTRACTOR SHALL COORDINATE EXACT SIZE OF HVAC CONCRETE PADS WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS FOR DETAILS.
- ALL ROAD WORK SHALL BE PERFORMED IN ACCORDANCE WITH "THE CURRENT EDITION OF THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE IRRIGATION CONTRACTOR, FOR IRRIGATION SLEEVE SIZE FOR IRRIGATION SYSTEM.
- RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE OWNER AND DESIGN PROFESSIONAL HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY

- (1) CONSTRUCT 1'-6" CONCRETE CURB AND GUTTER PER DETAIL SHEET
- (2) BIKE RACK
- (3) CONSTRUCT CONCRETE SIDEWALK PER DETAIL SHEET
- 4 CONSTRUCT CONCRETE SIDEWALK FLUSH WITH ASPHALT PAVEMENT
- (5) CONSTRUCT CONCRETE HANDICAP RAMP PER DETAIL SHEET
- 6 > HANDICAP PARKING STALL
- > INSTALL HANDICAP PARKING SIGN PER DETAIL SHEET
- ∖ CONCRETE PAVEMENT PER DETAIL SHEET, DRIVE THRU LANE SHALL BE 6" STAINED BLACK

KEYNOTES

- 9 ASPHALT PAVEMENT PER DETAIL SHEET POROUS CONCRETE PAVEMENT CONCRETE PAVEMENT STANDARD DUTY PAVEMENT ZZZ HEAVY DUTY PAVEMENT
- TRANSFORMER PAD BY GENERAL CONTRACTOR, PER ELECTRIC COMPANY SPECS., (COORDINATE SIZE & LOCATION WITH UTILITY COMPANY)
- CONSTRUCT DUMPSTER PAD, MINIMUM 6" CONCRETE WITH 4" ABC BASE, AND TRASH ENCLOSURE WITH GATES, SEE ARCHITECTURAL SHEETS FOR DETAIL, MATERIALS TO MATCH
- (12) CONCRETE WHEEL STOP PER DETAIL SHEET
- (13) POLE MOUNTED AREA LIGHT, SEE LIGHTING PLAN
- (14) PAINT 4" WIDE STRIPE, WHITE
- (15) PAINT 4" WIDE STRIPE @ 45", 2 FEET APART
- (16) PAINT TRAFFIC ARROWS PER DETAIL SHEET
- SITE IDENTIFICATION SIGN, INSTALL AND PERMIT PER CITY STANDARDS, COORDINATE WITH
- (18) PERVIOUS CONCRETE PER DETAIL SHEET
- (19) CONCRETE FLUME PER DETAIL SHEET
- (20) ASPHALT/CONCRETE TRANSITION PER DETAIL
- (21) INSTALL PIPE BOLLARD PER DETAIL SHEET
- (23) MATCH EXISTING ASPHALT PAVEMENT

(22) INSTALL ILLUMINATED BOLLARD

- (24) MATCH EXISTING CURB & GUTTER
- (25) PREVIEW BOARD, SEE ARCHITECTURAL PLANS FOR DETAILS
- (26) MENU BOARD AND SPEAKER POST, SEE ARCHITECTURAL PLANS FOR DETAILS
- (27) CLEARANCE BAR, SEE ARCHITECTURAL PLANS FOR DETAILS (28) PAINT 24" STOP BAR PER DOT AND MUTCO STANDARDS
- (29) PAINT "DO NOT ENTER" PER DOT MUTCO STANDARDS
- (30) INSTALL TRUNCATED DOMES PER HANDICAP RAMP DETAILS
- (31) INSTALL "STOP" SIGN PER DOT AND MUTCO STANDARDS
- (32) INSTALL "MEDIAN" SIGN (R4-7-24) PER DOT AND MUTCO STANDARDS
- (33) INSTALL "NO LEFT TURN" (R3-2-24) SIGN PER DOT AND MUTCD STANDARDS
- (34) STAMPED CONCRETE COLOR & PATTERN TO BE DETERMINED BY TENANT
- (35) NOSE DOWN CURB
- RELOCATE EXISTING UTILITY POLE, CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY.
- (37) DO NOT ENTER SIGN
- NON-ILLUMINATED BOLLARD

THE DISTRICT OFFICE OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.

TRAFFIC MUST BE MAINTAINED AT ALL TIMES AND TRAFFIC CONTROL MUST COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND WITH THE CURRENT EDITION OF THE NCDOT STANDARDS AND SPECIFICATIONS.

ALL LANES OF TRAFFIC ARE TO BE OPEN DURING THE HOURS OF 6:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM. A MINIMUM OF ONE 12-FOOT LANE SHALL BE MAINTAINED AT ALL TIMES.

ALL ROADWAY SIGNS WHICH ARE TO BE REMOVED DURING CONSTRUCTION ARE TO BE REINSTALLED AS SOON AS POSSIBLE.

DURING NON-WORKING HOURS, EQUIPMENT IS TO BE PARKED AS CLOSE TO THE RIGHT OF WAY LINE AS POSSIBLE AND BE PROPERLY BARRICADED IN ORDER TO PREVENT ANY EQUIPMENT OBSTRUCTION WITHIN TH

ALL CONTRACTORS DOING WORK WITHIN STATE RIGHT OF WAY ARE TO HAVE A COPY OF THESE PLANS ON

WHEN PERSONNEL AND/OR EQUIPMENT ARE WITHIN 5' OF AN OPEN TRAVEL LANE, THE CONTRACTOR SHAL CLOSE THE OPEN TRAVEL LANE ADJACENT TO THE WORK AREA USING APPROPRIATE TRAFFIC CONTROL MEANS AND METHODS UNLESS WORK IN THAT AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

THE CONTRACTOR SHALL NOT WORK SIMULTANEOUSLY ON BOTH SIDES OF AN OPEN TRAVEL WAY WITHIN THE SAME LOCATION ON A TWO-LANE, TWO-WAY ROAD.

THE MAXIMUM LENGTH OF A LANE CLOSURE ON THE PROJECT SHALL BE ONE MILE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

THE CONTRACTOR SHALL BACKFILL AT 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAYEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A DROP-OFF OF MORE THAN 3".

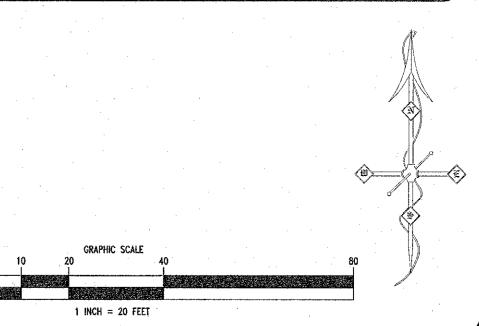
WHEN BACKFILL IS REQUIRED, IT SHALL BE AT NO EXPENSE TO THE OWNER.

THE MAXIMUM DIFFERENCE IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC SHALL BE 2".

WHEN LANE CLOSURES ARE NOT IN EFFECT, CHANNELIZING DEVICES IN WORK AREAS SHALL BE SPACED NO GREATER THAN TWICE THE POSTED SPEED LIMIT, EXCEPT 10' ON-CENTER IN RADII, AND SHALL BE SET 3' OFF THE EDGE OF AN OPEN TRAVELWAY.

DURING INSTALLATION, PROPER TRAFFIC CONTROL DEVICES, SIGNS, ETC. BE INSTALLED TO ENSURE PUBLIC SAFETY IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S STANDARDS AND

ALL DISTURBED AREAS ARE TO BE FULLY RESTORED TO NCDOT MINIMUM ROADWAY STANDARDS. MATERIALS AND WORKMASHIP SHALL CONFORM TO THE NCDOT ROADWAY STANDARDS AND SPECIFICATIONS (LATEST EDITION).





Consultant Triangle Site Design, PLLC 4004 Barrett Dr. Ste 101 Raleigh, NC 27609 (919) 553-6570 mlowder@frianglesitedesign.com NC License #P-0619



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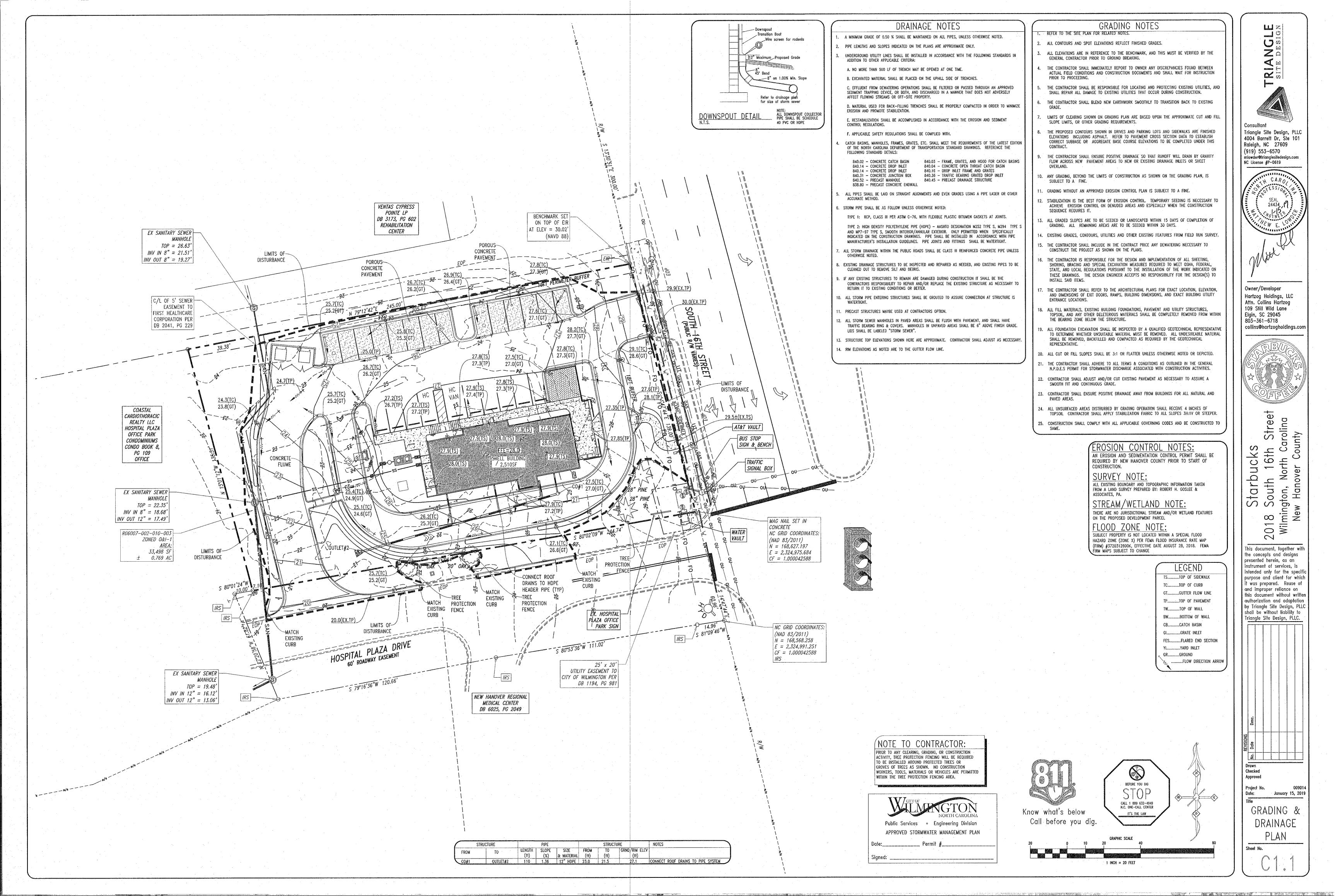
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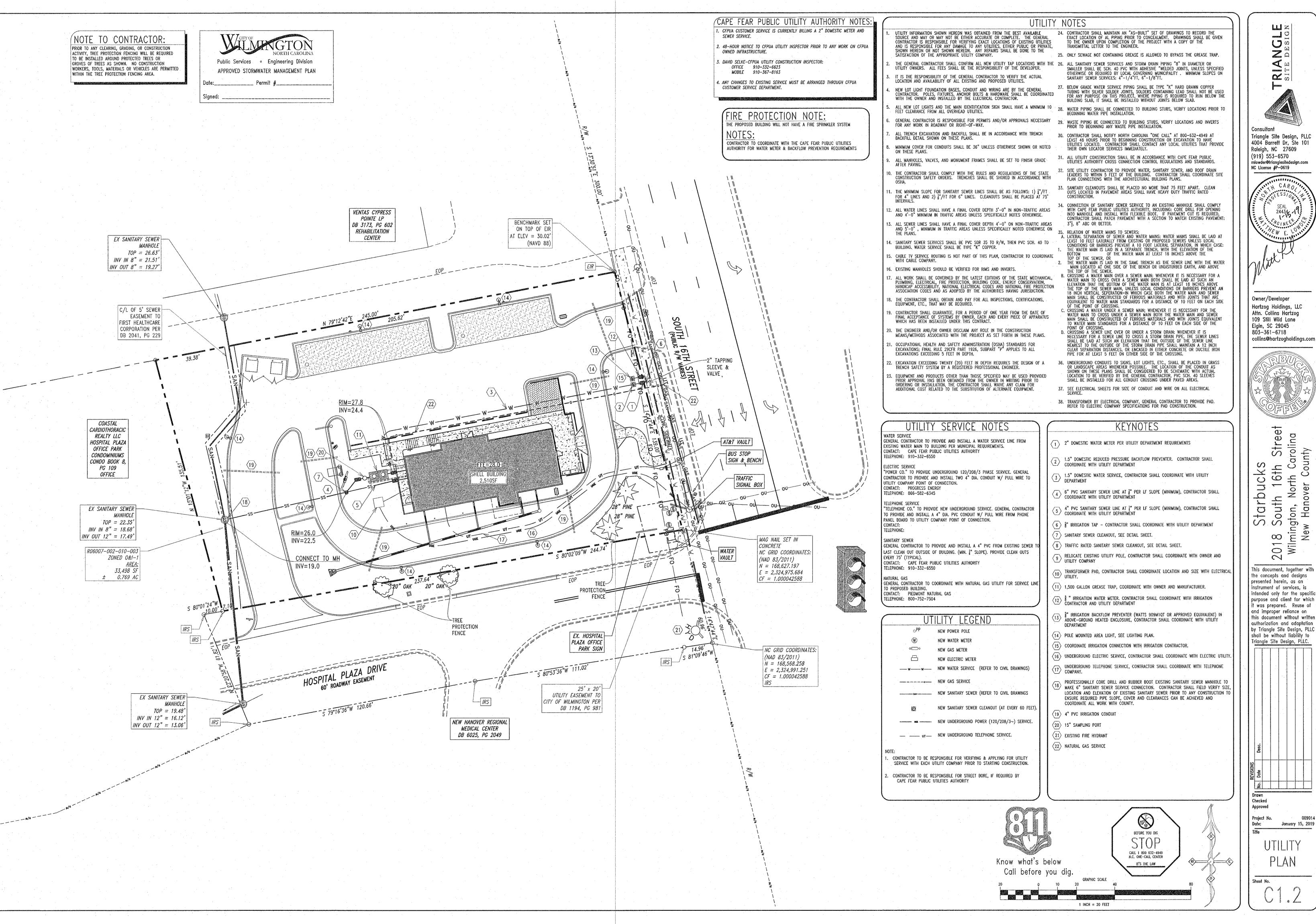
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Triangle Site Design, PLLC.

Approved January 15, 2019





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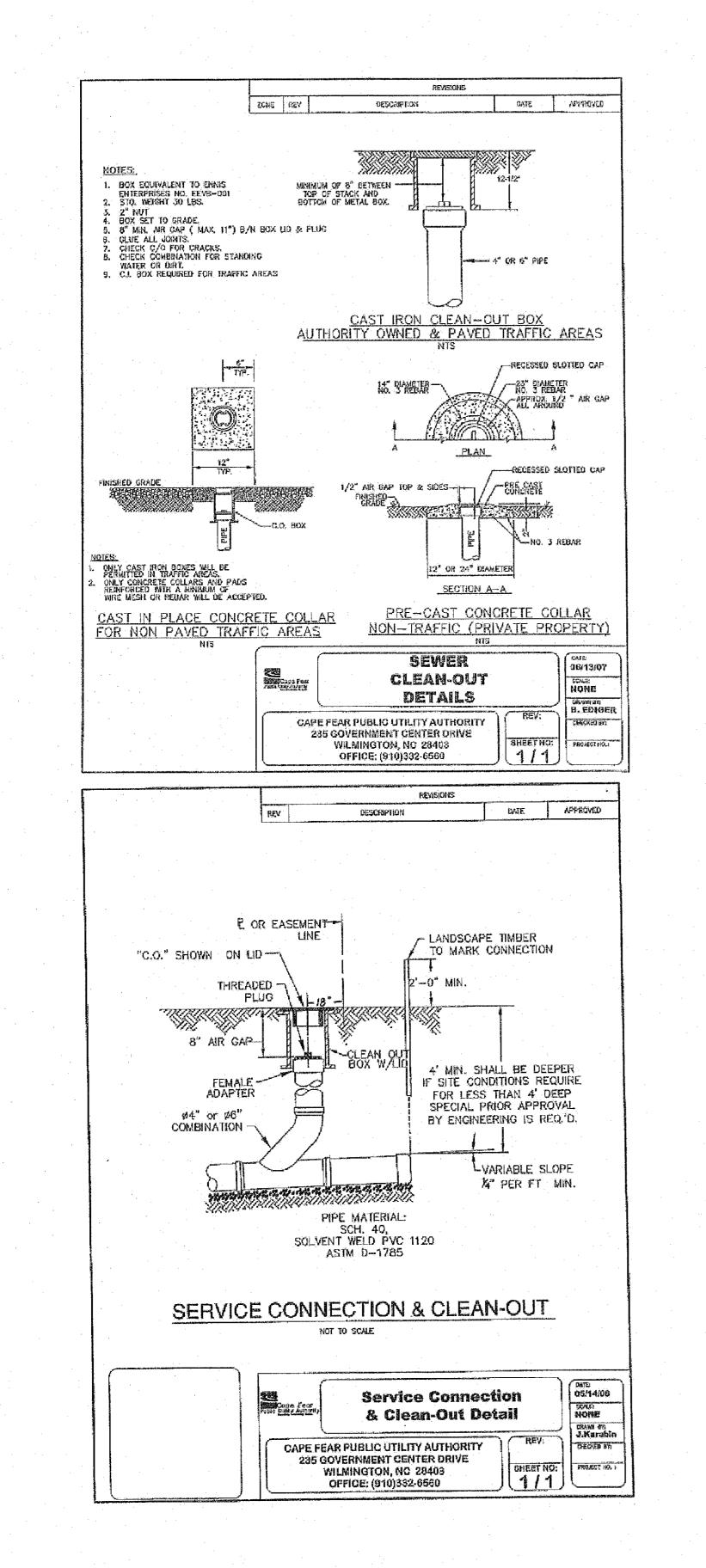
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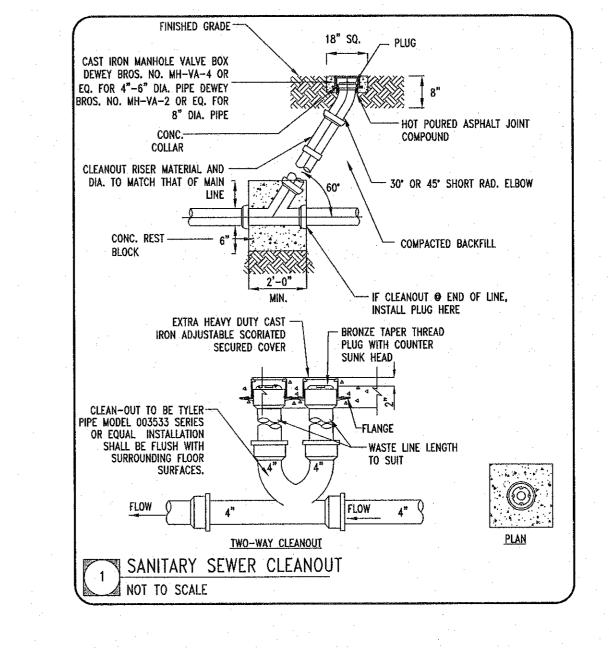
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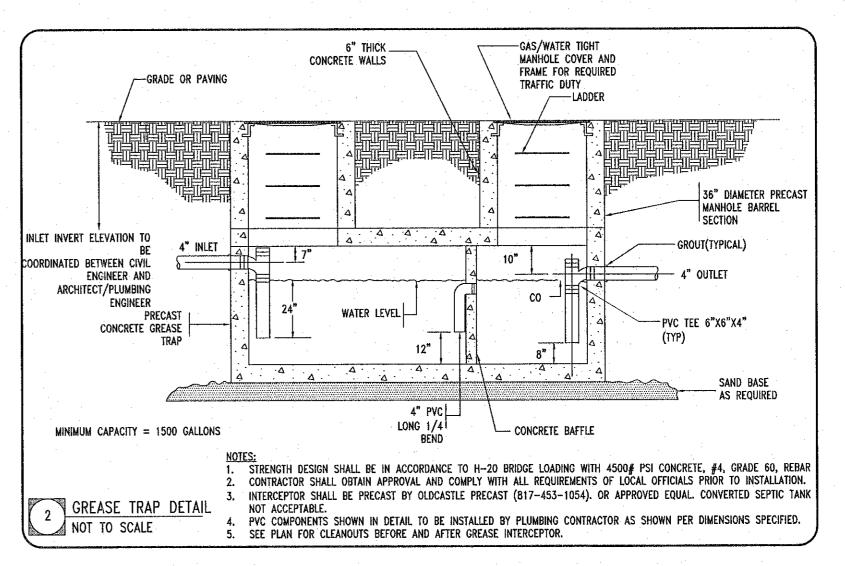
Raleigh, NC 27609 (919) 553-6570

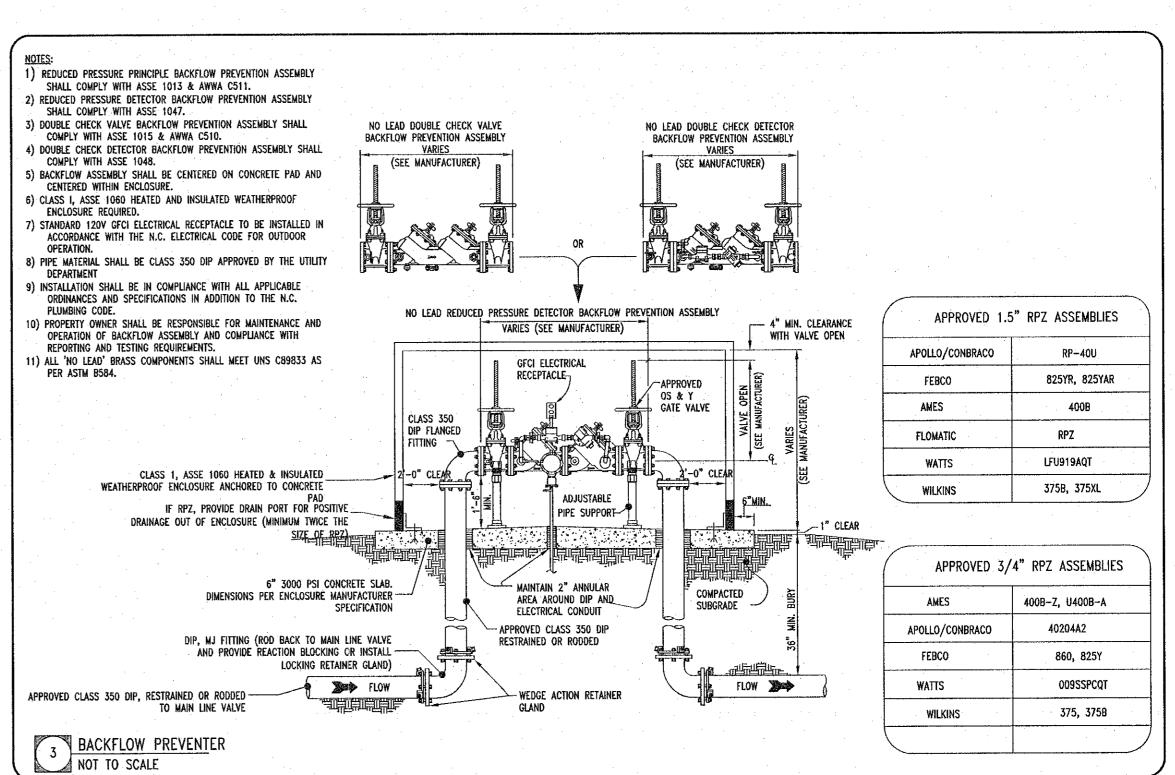
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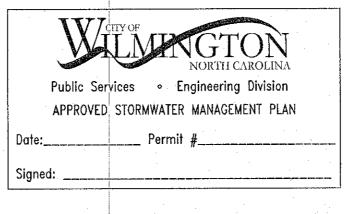
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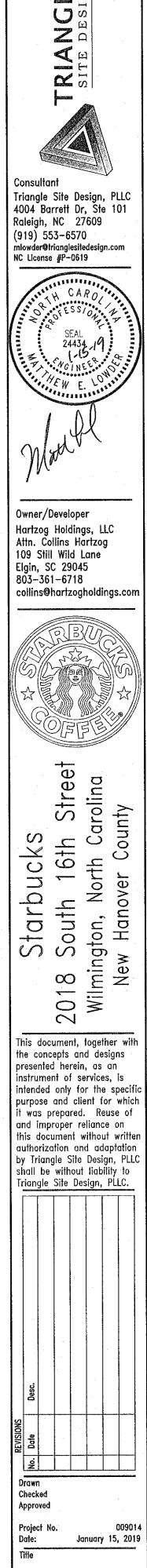




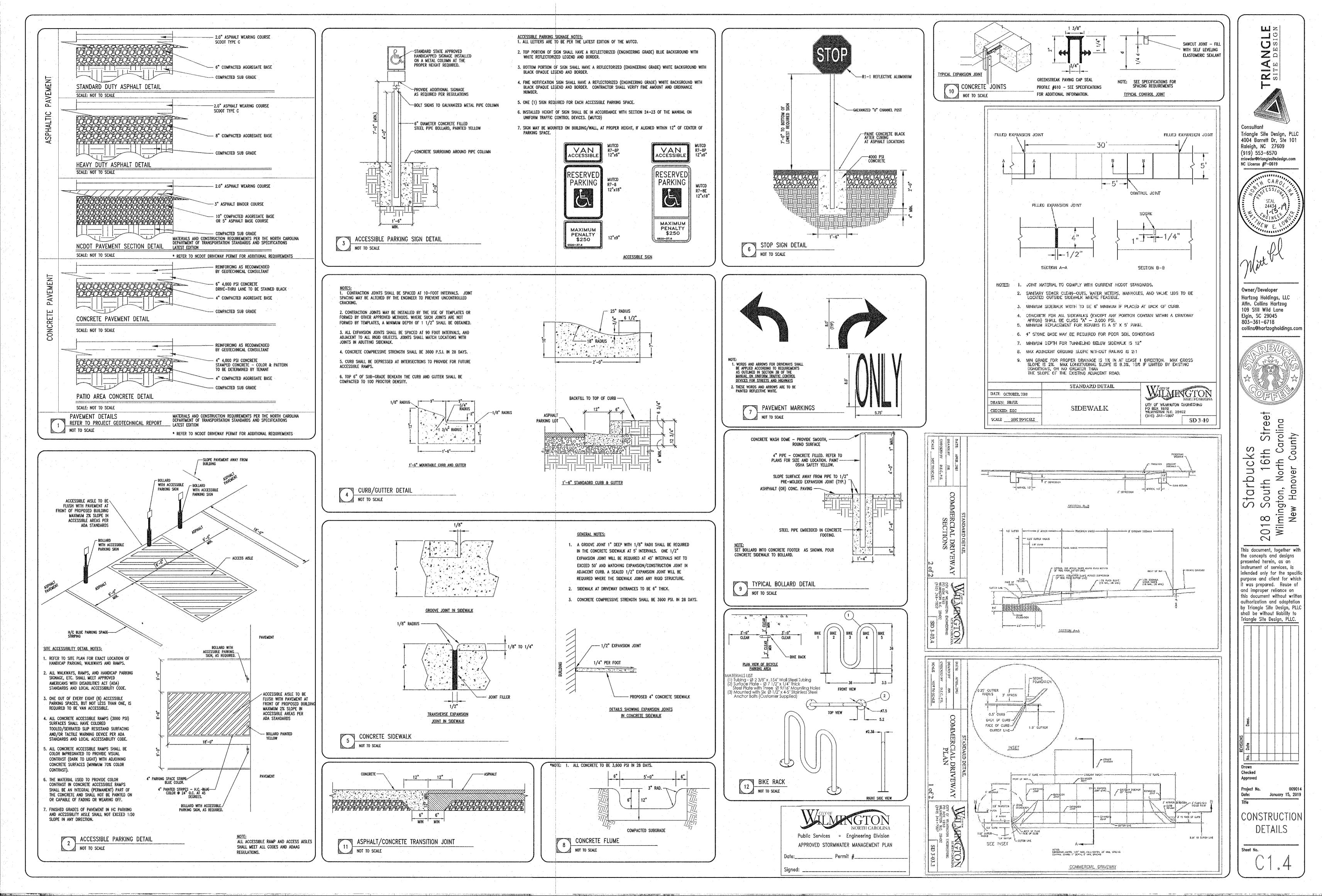




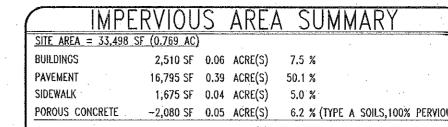




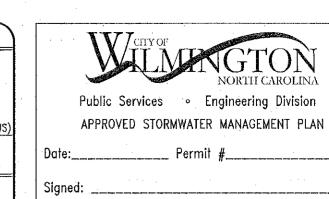
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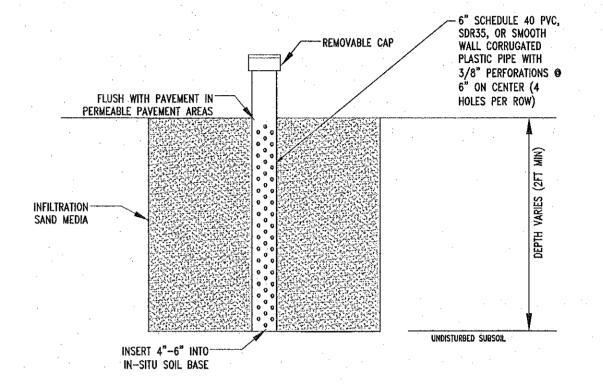


HATCH PATTERN-INDICATES AREA OF POROUS CONCRETE
PAVEMENT HATCH PATTERN— INDICATES AREA OF POROUS CONCRETE PAVEMENT VENTAS CYPRESS POINTE LP BENCHMARK SET -DB 3173, PG 602 ON TOP OF EIR REHABILITATION AT ELEV = 30.02' CENTER EX SANITARY SEWER OBSERVATION WELL-(NAVD 88) MANHOLE TOP = 26.63'----PERMEABLE
PAVEMENT SIGN INV IN 8" = 21.51' INV OUT 8" = 19.27' OBSERVATION WELL----PERMEABLE PAVEMENT SIGN C/L OF 5' SEWER EASEMENT TO FIRST HEALTHCARE CORPORATION PER DB 2041, PG 229 TAL
PORACIC
LLC
PLAZA
PARK
INIUMS
POOK 8,
POG / 2,510SF ARY SEWER MANHOLE ' = 22.35' " = 18.68' " = 17.49' PLAN VIEW 1"=20'

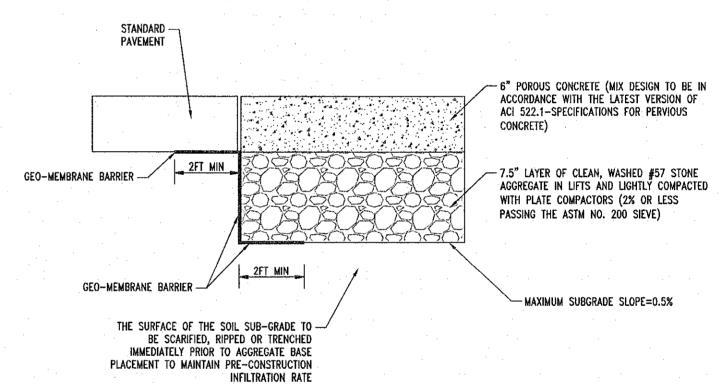


POROUS CONCRETE -2,080 SF 0.05 ACRE(S) 6.2 % (TYPE A SOILS,100% PERVIOUS) TOTAL IMPERVIOUS AREA 18,900 SF 0.43 ACRE(S) 56.4 % GREEN/OPEN SPACE 14,598 SF 0.34 ACRE(S) 43.6 % EXISTING IMPERVIOUS AREA TO BE DEMOLISHED: 20,340 SF DECREASE IN IMPERVIOUS AREA: 1,440 SF EXEMPT FROM 25-YEAR PRE/POST ATTENUATION REQUIREMENT





OBSERVATION WELL



POROUS CONCRETE PAVEMENT SECTION

PERMEABLE PAVEMENT ACTIVITIES PROHIBITED: SANDING RE-SEALING RE-SURFACING POWER WASHING STORAGE OF MULCH OR SOIL STORAGE OF SNOW PILES STORAGE OF HEAVY LOADS

EXAMPLE PERMEABLE PAVEMENT SIGN

APPLICATION OF SALT OR DE-ICERS

BMP element:	Potential problem:	How to remediate the problem
The perimeter of the permeable pavement	Areas of bare soil and/or erosive gullies	Regrade the soil if necessary to remove the gully, then plant ground cover and water until established
	A vegetated area drains toward the pavement	Regrade the area so that it drains away from the pavement, then plant ground cover and water until established
The surface of the permeable pavement	Trash/debris present	Remove the trash/debris
	Weeds	Do not pull the weeds (may pull out media as well). Spray them with a systemic herbicide such as glyphostate an then return within the week to remove them by hand. (Another option is to pou boiling water on them or steam them)
	Sediment	Vacuum sweep the pavement
	Rutting, cracking, or damaged structure	Consult and appropriate professional
Observation well	Water present more than five days after a storm event	Clean out clogged underdrain pipes. Consult an appropriate professional for clogged soll subgrade.
Educational sign	Missing or is damaged	Replace the sign

RANCL SITE DESIGN

Consultant

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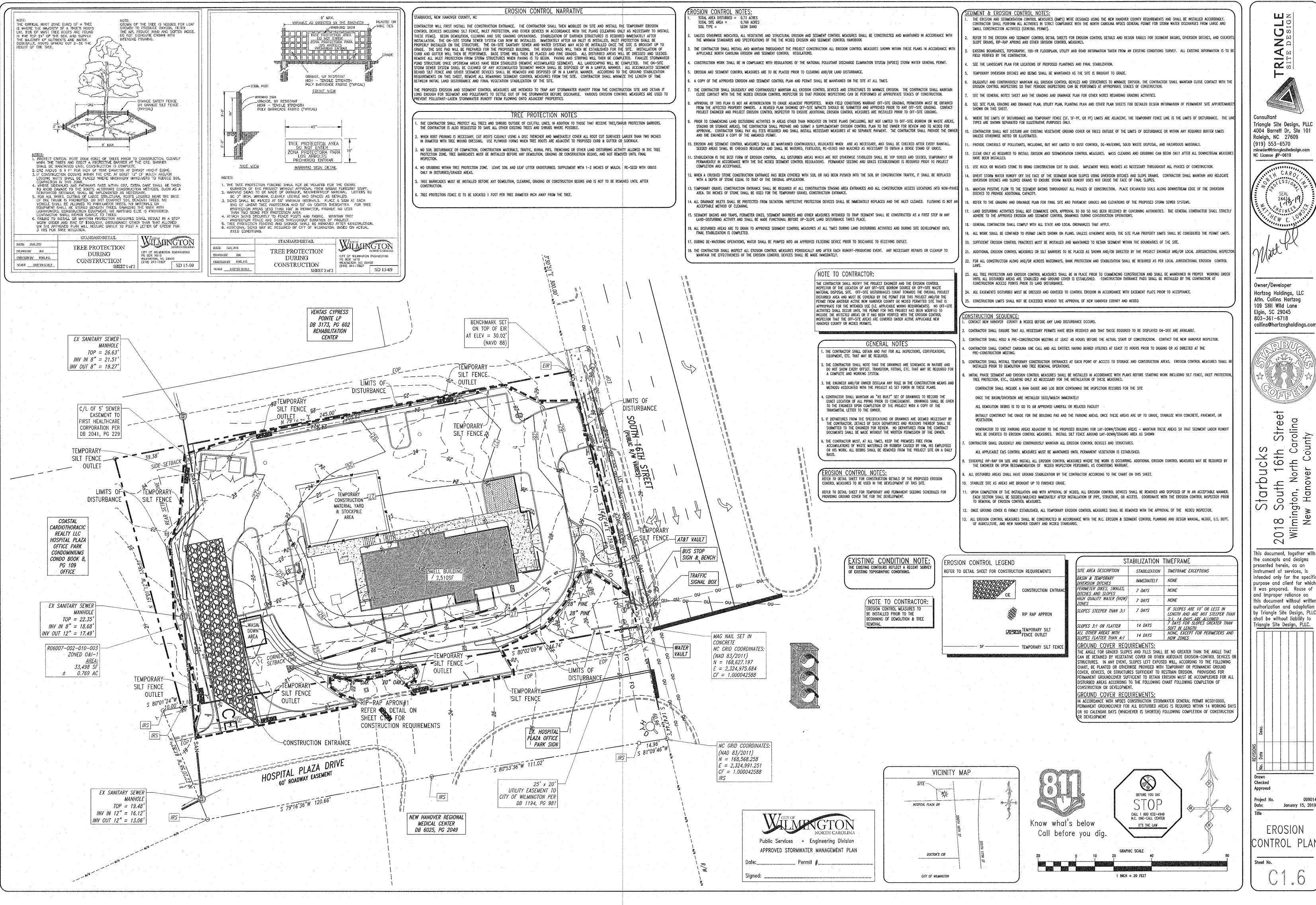
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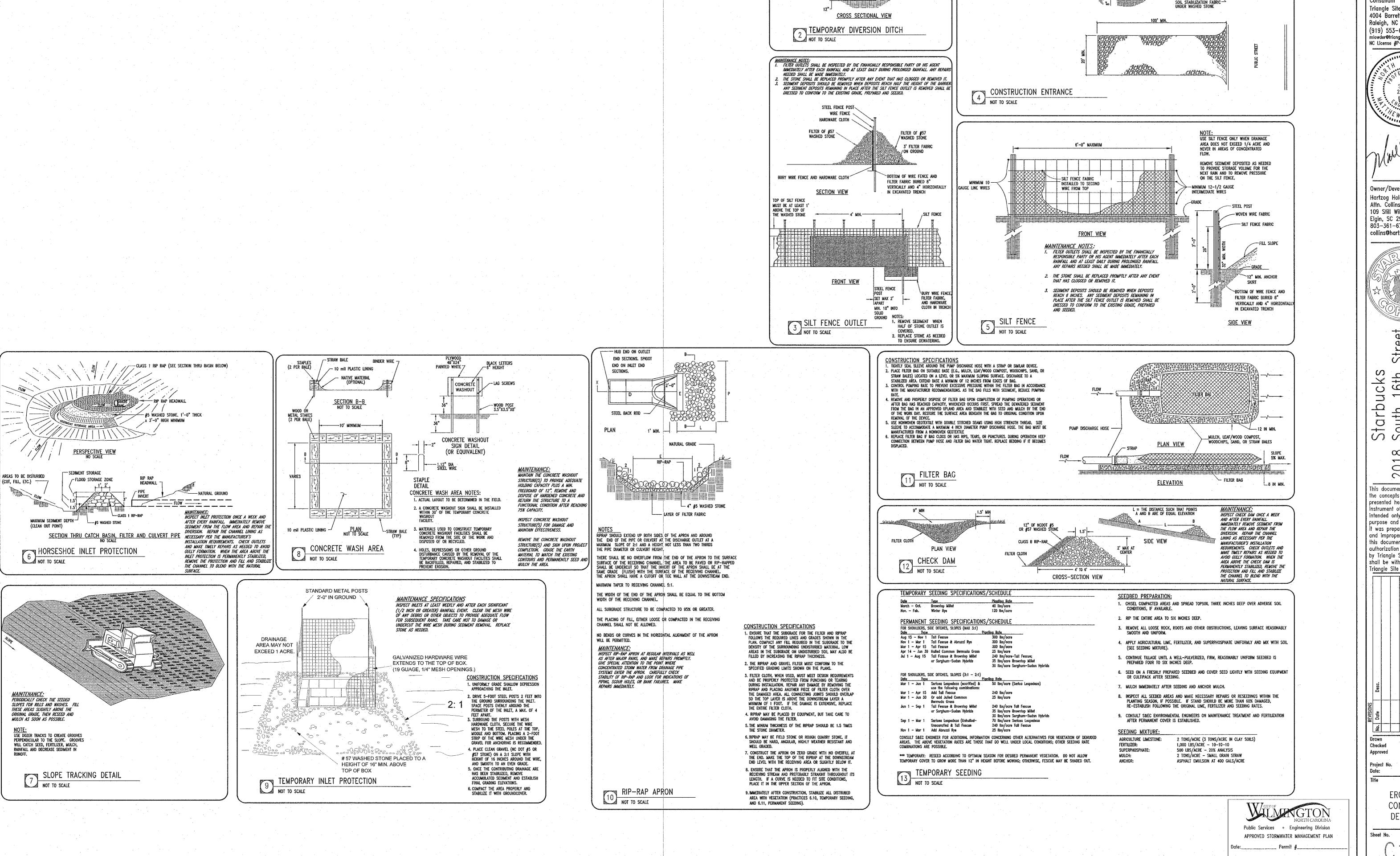
> STORMWATER MANAGEMENT DETAILS

January 15, 2019

Checked

Approved





GENERAL NOTES:

PUBLIC STREET.
STONE TO BE 2"-3" WASHED STONE

APPROVED SEDIMENT BASIN. FILTER FABRIC SHALL BE MIRAFI 500 OR EQUAL.

A STABILIZED PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT

ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

. ENTRANCE SHALL BE A MINIMUM OF 20' IN WIDTH OR THE WIDTH OF THE EXIT, WHICHEVER IS GREATER.

EXISTING GROUND

ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY WHEN NECESSARY WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN

NSPECT TEMPORARY DIVERSION DITCH ONCE A WEEK AND AFTER

EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW

AREA AND REPAIR THE DIVERSION. REPAIR THE CHANNEL LINING AS

NECESSARY PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED TO AVOID

DIVERSION DITCH IS PERMANENTLY STABILIZED, REMOVE THE DIVERSION AND FILL AND STABILIZE THE CHANNEL TO BLEND WITH THE NATURAL

GULLY FORMATION. WHEN THE AREA ABOVE THE TEMPORARY

SEED & MULCH AFTER CONSTRUCTION OF DITCH

TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
 SILT SHALL BE REMOVED WHEN DITCH IS ONE—HALF FULL.
 DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY

STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC,

AND/OR EROSION CONTROL NETTING.

Triangle Site Design, PLLC 4004 Barrett Dr. Ste 101 Raleigh, NC 27609 (919) 553-6570 mlowder@trianglesitedesign.com NC License #P-0619 Owner/Developer Hartzog Holdings, LLC Attn. Collins Hartzog 109 Still Wild Lane Elgin, SC 29045 803-361-6718 collins@hartzogholdings.com Street g Cou 6th c ¥ 5 5 <del>Ĭ</del> SS Ö  $\infty$ <del>----</del> C This document, together with the concepts and designs presented herein, as an instrument of services, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without writte authorization and adaptatior by Triangle Site Design, PLL( shall be without liability to Triangle Site Design, PLLC. January 15, 2019 **EROSION** CONTROL DETAILS

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MAINTENANCE:

INSPECT CONSTRUCTION ENTRANCE

SURFACE. TOP-DRESS WITH NEW

PERIODICALLY FOR CONDITION OF

PUBLIC STREET

