NOTES

1. PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING (IF REQUIRED) WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION.

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 OCCUR IN THOSE AREAS.

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

4. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN PARKING AREAS

5. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT OF WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.

6. WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY DETAILS AND SPECIFICATIONS.

7. PROJECT SHALL COMPLY WITH CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL

8. IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST SUPPLY A RPZ BACKFLOW PREVENTION DEVICE ON THE DEVELOPERS SIDE OF THE WATER METER BOX.

9. ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA SHALL COMPLY WITH THE CFPUA CROSS CONNECTION REGULATIONS.

10. ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZE

TO BE ON THE LIST OF APPROVED DEVICES BY USCFCCCHR.

11. ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPUA WILL NEED

12. CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF

13. AN ALL WEATHER DRIVING SURFACE FOR EMERGENCY VEHICLES MUST BE MAINTAINED DURING CONSTRUCTION.

14. NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (TEN) FEET ABOVE THE GROUND WITHIN THE TRIANGLE SIGHT DISTANCE.

15 CONTRACTOR IS TO NOTIFY (AT A MINIMUM) THE FOLLOWING COMPANIES FOR LOCATION SERVICES: ULOCO1-800-632-4949, 48 HOURS IN ADVANCE BELL SOUTH......1-800-392-8712 (STEVE DAYVAULT)

16. THERE SHALL BE NO ENCUMBRANCES WITHIN THE NCDOT RIGHT OF WAY. 17. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET

TREES SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL.

CAROLINA ONE CALL CENTER 1-800-632-4949

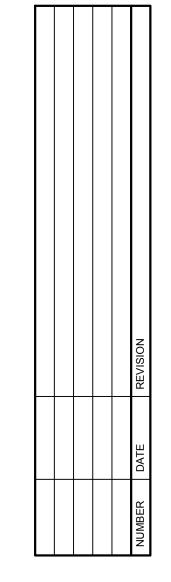
19 PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS OF FDC'S

21. FDC'S CAN BE NO FURTHER THAN 150' FROM A FIRE HYDRANT

22. A Section 510 Study is required per NC Fire Code for First Responder Radio Coverage.

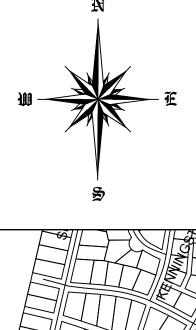
OWNER

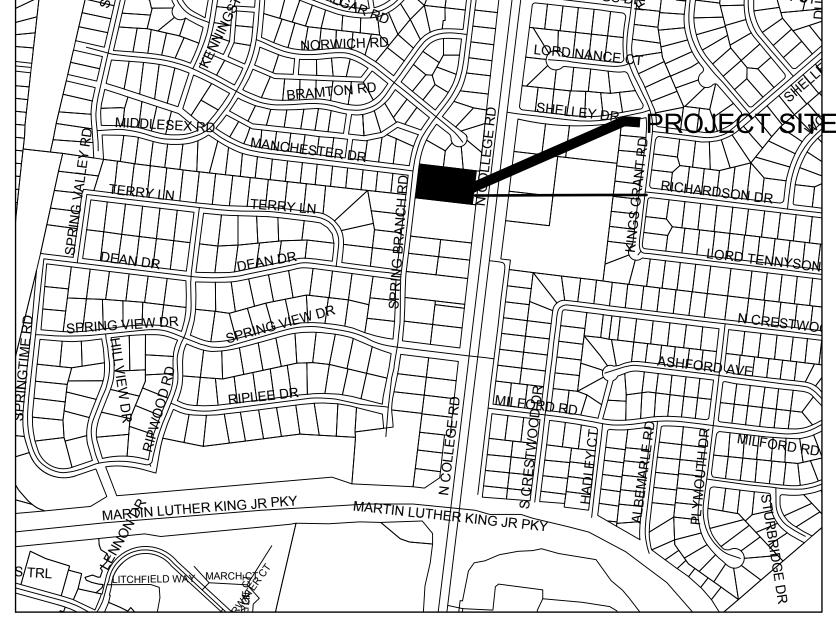
1-910-399-7131





CONSTRUCTION PLANS CAPE FEAR CHRISTIAN CHURCH 811 NORTH COLLEGE ROAD WILMINGTON, NC 28405-2533





SCALE 1" = 600' VICINITY MAP DECEMBER, 2020

CAPE FEAR CHRISTIAN CHURCH 811 NORTH COLLEGE ROAD WILMINGTON, NC 28405-2533

CIVIL ENGINEER JBS CONSULTING, PA BRAD SEDGWICK, PE 7332 COTESWORTH DRIVE WILMINGTON, NC 28405 1-910-619-9990

SURVEYOR GEOINNOVATION, PC MR. DEAN EXLINE, PLS 3306 KITTY HAWK ROAD WILMINGTON, NC 28405 1-910-367-2110

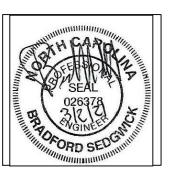
LIST OF DRAWINGS

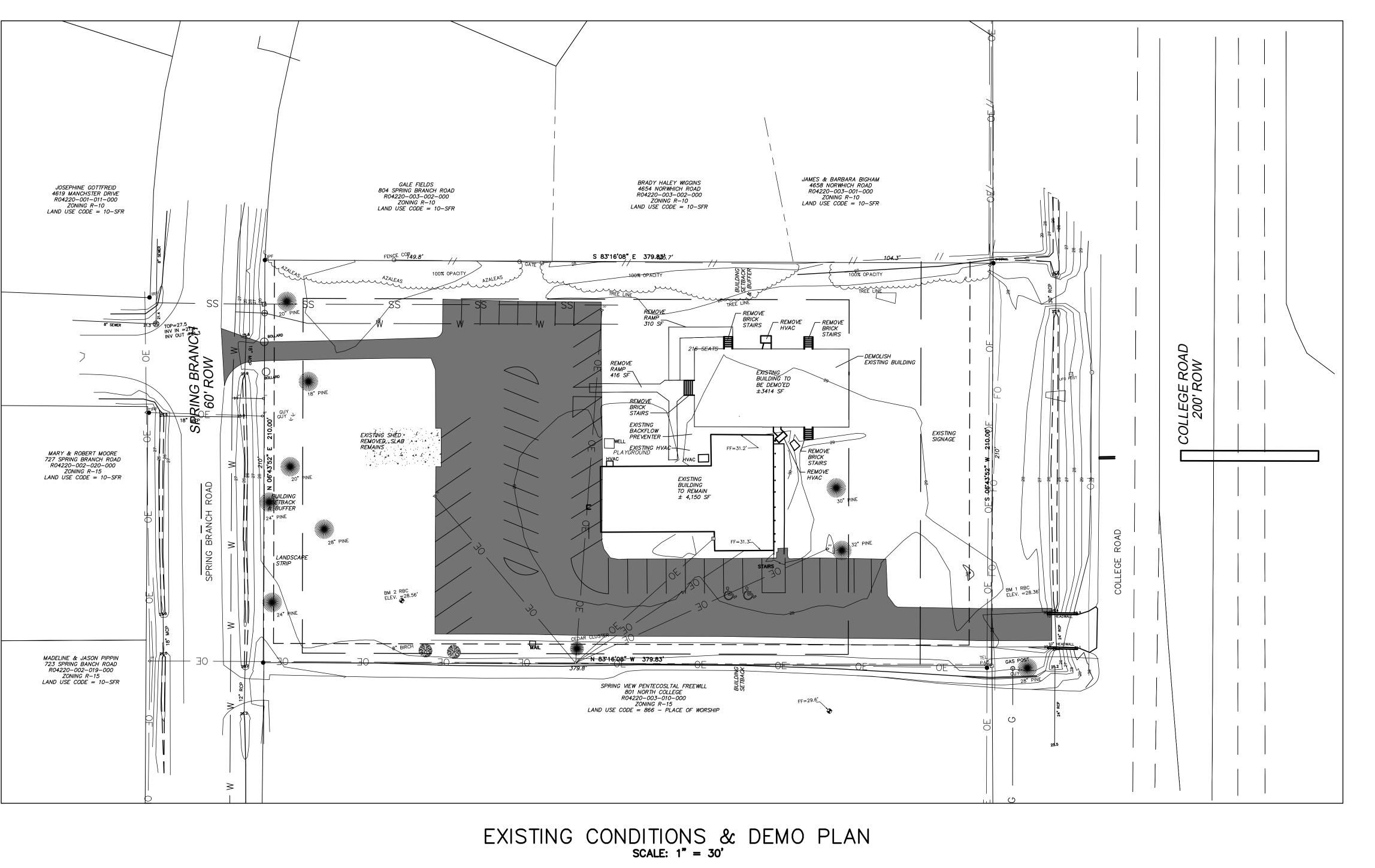
COVER SHEET EXISTING SITE C1 SITE PLAN

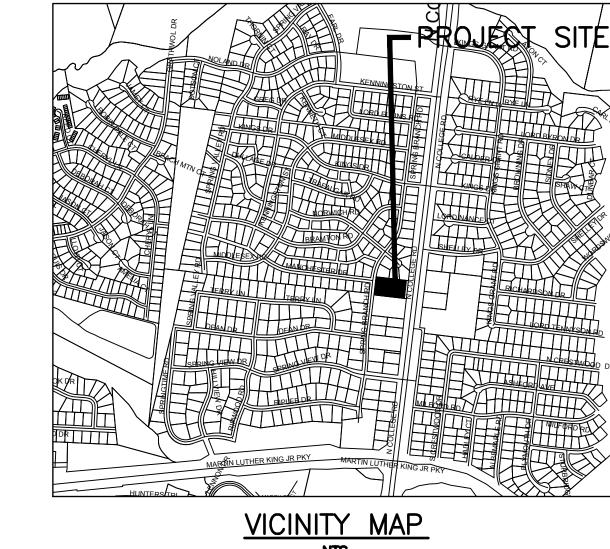
C2 GRADING, DRAINAGE & EROSION CONTROL

DETAILS/LANDSCAPE PLAN

ARCHITECT DESIGN ELEMENTS MR. M.L.SAIEED, AIA, LEEP-AP 1213 CULBRETH DRIVE, SUITE 142 WILMINGTON, NC 28405 1-910-509-3131







FEAR CHRISTIAN CHURCH 811 NORTH COLLEGE ROAD WILMINGTON, NC 28405-2533 1-910-399-7131

EXISTING CONDITIO & DEMO PLAN E FEAR CHRISTIAN

LEGEND

CO CO BFP

W

EXISTING SPOT ELEVATION

EXISTING SEWER CLEAN OUT

PRO. BACKFLOW PREVENTOR

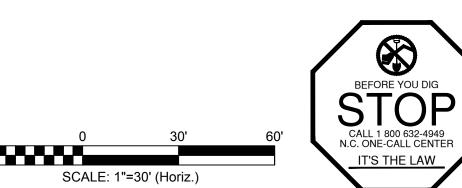
PRO. WATER METER

RIP-RAP OUTLET PROTECTION

PROPOSED ELEVATION

SILT FENCE

JOB NO. 145-001



BEFORE YOU DIG

STOP

CALL 1 800 632-4949

N.C. ONE-CALL CENTER

IT'S THE LAW

NO WETLAND WITHIN PROJECT AREA

SITE PLAN SCALE: 1" = 30'



VICINITY MAP

7

SITE

CH

EAR CHRISTIAN CHURC
11 NORTH COLLEGE ROAD
11 NOTH NC 28405-2533
1-910-399-7131

API

 \circ

145-001

SITE DATA

DEED BOOK 893 PAGE 423

MAP BOOK N/A PAGE N/A

TOTAL LOT AREA = 1.85

PROPOSED USE - 866 PLACE OF WORSHIP

NUMBER OF BUILDINGS - EXISTING 2-7564 SE

NUMBER OF BUILDINGS -EXISTING 2-7564 SF PROPOSED 2 - 10,150 SF 10150 / 7564 = 34% EXPANSION

ZONING — R10 PROPERTY IS IN A SPECIAL HIGHWAY OVERLAY DISTRICT PARKING REQUIREMENTS (PER TABLE 5.1.2.A)

1 PARKING SPOT PER 5 SEATS
216 SEATS PROPOSED / 5 = 43.2 PARKING SPOTS REQUIRED

49 SPOTS + 2 H/C = 51 SPOTS PROVIDED

FLOOD INFORMATION

PER FLOOD MAP 3720314800K PANEL 3148 DATED AUGUST 28, 2018 ZONE X MINIMAL RISK.

BUA CALCULATIONS
PRE PROJECT

ASPHALT PARKING LOT 23,955 SF BUILDING 7,564 SF CONCRETE 726 SF TOTAL 32,245 SF

POST PROJECT
ASPHALT PARKING LOT

ASPHALT PARKING LOT 23,955 SF BUILDING 6,000 SF CONCRETE 1,653 SF TOTAL 35,801 SF

% IMPERVIOUS (35,801/ 81,022) = 44.2%

WATER/SEWER INFO

WATER USE — CURRENT — ? GPD WATER USE — PROPOSED — ? GPD SEWER USE — CURRENT — ? GPD SEWER USE — PROPOSED — ? GPD

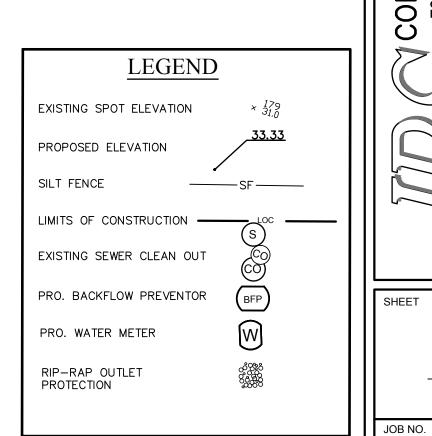
SEWER USE - PROPOSED - ? GPD

BUILDING SET BACK REQUIREMENTS

REQUIRED

LOT WIDTH
FRONT YARD 70' 75.4'
REAR YARD 15' 184.1'
SIDE YARD 15'
BUILDING HEIGHT 40'

PROPOSED

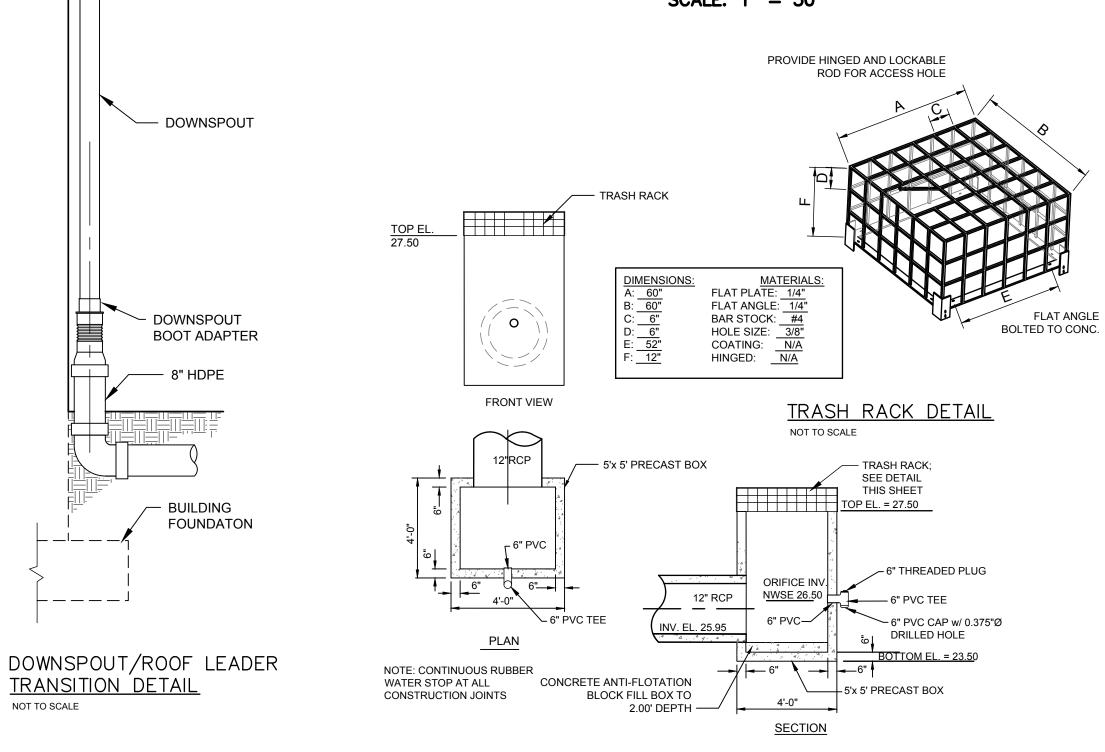


30' 0 30' 6
SCALE: 1"=30' (Horiz.)

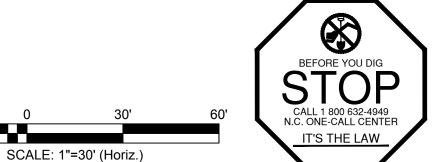


NO WETLAND WITHIN PROJECT AREA

GRADING, DRAINAGE & EROSION CONTROL



POND OVERFLOW STRUCTURE DETAIL



NO WETLAND WITHIN PROJECT AREA

CONSTRUCTION SEQUENCE

1. OBTAIN ALL NECESSARY PERMIT APPROVALS PRIOR TO ANY LAND DISTURBING

2. HOLD A PRE-CONSTRUCTION MEETING WITH THE EROSION CONTROL INSPECTOR. 3. INSTALL GRAVEL CONSTRUCTION ENTRANCE, SILT FENCE AND TEMPORARY SEDIMENT TRAP, COMMENCE CLEARING AND ROUGH GRADING OPERATIONS TO ESTABLISH

DIVERSION SWALES AND SEDIMENT TRAPS AND BASIN. 4. ROUGH GRADE SITE INSIDE OF SILT FENCES AND INSTALL UNDERGROUND UTILITIES. 5. PROVIDE TEMPORARY PROTECTION MEASURES AND DEVICES AS REQUIRED UNTIL UNDERGROUND UTILITIES AND PAVEMENT SECTION IS COMPLETE AND FINAL GRADES ARE

STABILIZED WITH TEMPORARY VEGETATIVE COVER. 6. STABILIZE (FERTILIZE, SEED, AND MULCH) ALL DISTURBED AREAS AS SOON AS FINAL GRADES ARE ESTABLISHED.

7. ONCE SITE IS STABILIZED THE TEMPORARY SEDIMENT TRAP MAY BE FILLED IN AND FRONT OF PARKING LOT INSTALLED. AFTER SEDIMENT TRAP IS FILLED IN INSTALL OUTLET VELOCITY RIP RAP.

ONCE CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS ARE STABILIZED, REMOVE TEMPORARY EROSION CONTROL MEASURES, REMOVE SEDIMENT FROM SEDIMENT BASIN AND CONSTRUCT BIORETENTION.

GRADING NOTES

1. INITIATE EROSION CONTROL SEQUENCE BEFORE BEGINNING CLEARING, GRUBBING AND GRADING OPERATIONS.

2. CLEAR AREAS TO BE GRADED OF ALL VEGETATION. PROTECT VEGETATION BEYOND GRADING LIMITS.

3. STRIP TOPSOIL TO FULL DEPTH IN AREAS TO BE GRADED AND STOCKPILE.

4. COMPACT ALL FILL AREAS TO 95% OF MAXIMUM DENSITY.

5. ALL BANKS AND SWALE SIDE SLOPES SHALL BE GRADED WITH NO GREATER THAN 3:1

6. ALL AREAS ARE TO BE GRADED SO THAT NO AREAS OF STANDING WATER OCCUR. 7. PROPOSED CONTOUR ELEVATIONS ARE SHOWN AT FINISHED GRADE.

8. OPERATOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTIONS INDICATED ON THE PLAN.

EROSION CONTROL MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF - PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.

2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.

4. ALL AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS,

5. GRAVEL CONSTRICTION ENTRANCE TO BE CLEANED WHEN SEDIMENT ACCUMULATIONS ARE VISIBLE OR SEDIMENT IS DEPOSITED ON THE ASPHALT AND STONE WILL BE PERIODICALLY TOP DRESSED WITH 2 INCHES OF #4 STONE TO MAINTAIN 6 INCH DEPTH.

7. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (12 OR GREATER) RAINFALL EVENT. CLEAR THE WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

EROSION CONTROL NOTES

1. ANY CONSTRUCTION ACTIVITY BEYOND THE 0.51 ACRE LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO FINES. 2. CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN SITE UNLESS

3. CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITH IN THE LIMITS OF CONSTRUCTION.

4. CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY UNSUITABLE SOILS.

5. CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.

6. THE CONTRACTOR SHALL FURNISH ANY REQUIRED BORROW MATERIALS FROM A PROPERLY PERMITTED OFF-SITE FACILITY.

7. ALL GRADED SLOPES MUST BE SEEDED AND MULCHED WITHIN 21 CALENDAR DAYS OF COMPLETION OF GRADING. STABILIZE AREAS OTHER THAN SLOPES WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS, WHICHEVER IS SHORTER.

8. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE COUNTY ENGINEERING DEPARTMENT.

9. SLOPES SHALL BE GRADED NO STEEPER THAN 3:1.

10. ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED UPON BY THE FIELD INSPECTOR,

11. IF ACTIVE CONSTRUCTION CEASES IN ANY AREA FOR MORE THAN 15 CALENDAR DAYS, ALL DISTURBED AREAS MUST BE SEEDED, MULCHED, AND TACKED,

Property Owner's Certification

VICINITY MAP

LABEL	1) GROUND STABILIZATION		
	SITE AREA DESCRIPTION	STABLIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
	-PERIMETER DIKES, DITCHES AND SLOPES	7 DAYS	NONE
	-HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
	SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT SEEPER THAN 2:1 14 DAYS ARE ALLOWED
	SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
	-ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMTERS AND HQW ZONES)

2) BUILDING WASTES HANDLING

-NO PAINT OR LIQUID WASTES IN STREAM OF STORM DRAINS

DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE

-EARTHEN-MATERIALS STOCKPILES MUST BE LOCATED 50 FROM STORM DRAIANS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE -CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS, OR BUFFERS.) INSPECTIONS

-SAME WEEKLY INSPECTION REQUIREMENTS

-SAME RAIN GAUGE & INSPECTIONS AFTER 0.5" RAIN EVENT -INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS" -INSPECTION REPORTS MUST BE AVAIABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED

-RECORDS MUST BE KEPT FOR 3 YEARS AND AVAIABLE UPON REQUEST -ELECTRONICALLY-AVAIABLE RECORDS MAY BE SUBSTITUTES UNDER CERTAIN

-OUTLET STRUCTURES MUST WITHDRAW FROM BASIN SURFACES UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE

-USE ONLY DWQ-APPROVED FLOCCULANTS NPDES - SPECIFIC PLAN SHEET NOTES

. THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000:

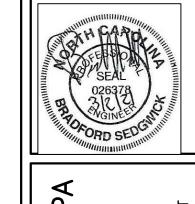
. THIS PAGE CAN BE APPROVED BY THE COUNTY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.

THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000. THE COUNTY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT PART OF THE APPROVED PLANS FOR THE PURPOSES OF ENFORCEMENT ACTION UNDER THE CITY CODE.

- R - C - C - C

 $\overline{\mathbb{Q}}$

AP 53



LEGEND EXISTING SPOT ELEVATION PROPOSED ELEVATION SILT FENCE LIMITS OF CONSTRUCTION -EXISTING SEWER CLEAN OUT BFP PRO. BACKFLOW PREVENTOR PRO. WATER METER

RIP-RAP OUTLET PROTECTION

JOB NO. 145-001

Accept full responsibilities for the construction and operation and Maintenance of the proposed facilities. I will not attempt to transfer This responsibility without the written authorization of New Hanover County."

/homas STRAKI

"I hereby certify that I am the current owner of the property and that Upon receipt of the "Authorization-To-Construct" any clearing, grading Construction or development will be performed in accordance with this

County, the State of North Carolina and the Federal Government and

Plan and the applicable ordinances and rules of New Hanover

Its agencies which are hereby made part of this plan. As owner, I

Printed Name & Title: __Thomas Straka, Trustee

Date: __3/2/21_

Designer's Plan Certification

"I hereby certify this plan has been prepared in accordance with the latest New

Hanover County Ordinace and Stormwater Design Manual"

Printed Name & Title: <u>Bradford Sedgwick, PE</u>

Date: ___3/2/21 Registration Number: NC 026378

NOT TO SCALE

SHEET JOB NO. 145-001

S 83'16'08" E 379.83' INTERIOR PLANTING REMOVE ASPHALE 6" HEADER CURB 120 SF PROVIDED -100% OPACITY FOUNDATION PLANTING 456 SF PROVIDED -A 4 . A . A . A FF=31.2' PLA YGROUND - INTERIOR PLANTING REMOVE ASPHALT INSTALL 6" HEADER CURB *398 SF PROVIDED*

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING SELF-INSPECTION, RECORDKEEPING AND REPORTING SECTION C: REPORTING The approved E&SC plan as well as any approved deviation shall be kept on the site. The Permittees shall report the following occurrences 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 kept on site and available for inspection at all times during normal business hours. Inspection at all times outing normal boundaries.

(a) Each EBSC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved EBSC plan. This documentation is required upon the initial installation of the EBSC measures are modified after initial installation. · 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. Anticipated bypasses and unanticipated bypasses. Noncompliance with the conditions of this permit that may endanger health or the Complete, date and sign an inspection report. 2. Reporting Timeframes and Other Requirements 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. After a permittee becomes aware of an occurrence that must be reported, he shall conta 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 Department's Environmental Emergency Center personnel at (800) 858-0368. 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 sedimentrelated 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. In addition to the E&SC plan documents above, the following items shall be kept on the site and available for 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 twelve months. 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 shall include information about the date, time, nature, volume and location of the spill or release. electronically-available records in lieu of the required paper copies will be allowed it shown to provide equal access and utility as the hard-copy records. A report at least ten days before the date of the bypass, if possible. (c) Anticipated bypasses [40 CFR 122.41(m)[3]]

(d) Unanticipated bypasses [40 CFR 122.41(m)[3]]

(e) Within 2a hours, an oral or electronic notification.

Within 2a hours, an evaluation of the noncompliance is expected to continue, and steps taken or planned to reduce, eliminate, and prevent recoccurrence of the noncompliance. [40 CFR 122.41(1)(6).

Division staff may waive the requirement for a written report on a case-by-case basis. All data used to complete the e-NOI and all inspection records shall be maintain of three years after project completion and made available upon request. [40 CFR 122.41] nent basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn do

maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weath n-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(b) A phase of grading has been co

(d) The maintenance and repair requirements for all E&SC measures have been performed.

(e) Corrective actions have been taken to E&SC measures.

2. Additional Documentation to be Kept on Site

umentation to be Retained for Three Years

construction phase.

a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdraw

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

shall not commence until the E&SC plan authority has approved these items, The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include

SELF-INSPECTION, RECORDKEEPING AND REPORTING

spections are required during normal business hours in accordance with the tabl below. When adverse weather or site conditions would cause the safety of the inspectio

nnel to be in jeopardy, the inspection may be delayed until the next business day of

Daily rainfall amounts.
If no daily rain gauge observations are made during weekend holiday periods, and no individual-day rainfall information available, record the cumulative rain measurement for those attended days (and this will determine if a site inspection needee). Days on which no rainfall occurred shall be recorded "zero." The permittee may use another rain-monitoring day approved by the Division.

In waster seatment on a sound used as earth and in the following shall be made:

1. Actions taken to clear up or stabilize the sediment that has left the site limited, and the stability of the site limited, and the site of corrective actions taken, and 3. An explanation as to the actions taken to control future.

3. An explanation as to the actions taken to control future releases.
If the stream or wettend has increased while sedimentation or a stream has visible increased furbidity from the construction activity, then a record of the following shall be made:

 Description, evidence and date of corrective actions taken, and
 Records of the require reports to the appropriate Division

ground cover).

2. Documentation that the required ground stabilization measures have been provided within the required thereforement an assurance that they will be provided as

erformed upon the commencement of the next business day. Any time when inspe

Inspect Inspect University (during normal Un

(2) E&SC At least once per Tode only use another rain-month approved by the DMsion.

(2) E&SC At least once per Tode of the measures impacted,
Tode of a rain approved to the person of the measures impacted,
A hours of a rain event g. 1.0 incl in 24 hours

(4) Indication of whether the measures were operating properly,
Description of maintenance needs for the measures.

6. Description, evidence, and date of corrective actions taken.

4) Perimeter of At least once per If visible sedimentation is found outside site limits, then a record

24 hours Regional Office per Part III, Section C, Rem (2)(a) of this permit.

After each phase 1. The phase of grading (instaliation of perimeter E&SC

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.

Timeframe variations

None

length and with slopes steeper than 4

-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW

-10 days for Falls Lake Watershed

ditches, perimeter slopes and HQ\

-10 days for Falls Lake Watershed un

7 days for perimeter dikes, swales,

Site Area Description many calendar

(b) High Quality Water (HQW) Zones

Slopes steeper th

hniques in the table below:

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

days after ceasing

Note: After the permanent cessation of construction activities, any areas with tempor

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

tabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the

construction, selecting from the NC DWR List of Approved PAMS/Floccular

PAMS/Flocculants and in accordance with the manufacturer's instructions.

Apply flocculants at the concentrations specified in the NC DWR List of Approved

Provide ponding area for containment of treated Stormwater before discharging

Store flocculants in leak-proof containers that are kept under storm-resistant co

- properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

ION, RECORDREEPING AND REPORTING					
MENT AND VEHICLE MAINTENANCE	ONSITE STR				

Provide drip pans under any stored equipment 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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.

to a recycling or disposal center that handles these materials.

- Locate waste containers on areas that do not receive substantial amounts of runor rom 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 Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately in containers overflow. Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containe PAINT AND OTHER LIQUID WASTE ner liquid waste into storm drains, streams or wetlands Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.

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 scorn drams, 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

Contain liquid wastes in a controlled area.

Provide stable stone access point when feasible

Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. . Monitor portable toilets for leaking and properly dispose of any leaked material Utilize a licensed sanitary waste hauler to remove leaking portable toilets and repla

EARTHEN STOCKPILE MANAGEMENT Show stockpile locations on plans. Locate earthen-material stockpile areas at leas 50 feet away from storm drain inlets, sediment basins, perimeter sediment contro and surface waters unless it can be shown no other alternatives are reasonably Protect stockpile with silt fence installed along toe of slope with a minimum offset

Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is definit as vegetative, physical or chemical coverage techniques that will restrain accelerate rosion on disturbed soils for temporary or permanent control needs.

RBICIDES, PESTICIDES AND RODENTICIDES ccidental poisoning.

Do not stockpile these materials onsite.

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

EFFECTIVE: 04/01/1

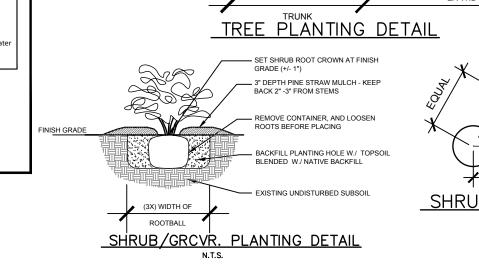
CONCRETE WASHOUTS Dispose of, or recycle settled, hardened concrete residue in accordance with loca and state solid waste regulations and at an approved facility.

Manage washout from mortar mixers in accordance with the above item and in

- addition place the mixer and associated materials on impervious barrier and with 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. 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.
- 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. 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
- 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 in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance

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 Do not store herbicides, nesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground or surface water. If a spill occurs, clean area immediately.



2X WIDTH OF ROOTBALL SHRUB/GRCVR. LAYOUT

TREE AS PER SCHEDULE

6" DEPTH TOPSOIL BLEND SAUCER

OR TOP 2/3 OF WIRE BASKET

EXISTING UNDISTURBED SUBSOIL

SUBSOIL

NATIVE BACKFILL

SETTLEMENT

— (3) GUY WIRES W./ GALVANIZED TURNBUCKLES, &

SET TREE ROOT CROWN AT FINISH GRADE (+/- 1")

3" DEPTH PINE STRAW MULCH - KEEP BACK 2" -3" FROM

(3) 2" X 2" X 30" WOOD STAKES W./ HOLE FOR GUYING

ATTACHMENT - DRIVE MIN. 12" INTO UNDISTURBED

BACKFILL PLANTING HOLE W./ TOPSOIL BLENDED W./

COMPACT SUBSOIL TO FORM MOUND TO PREVENT

REMOVE TOP 1/3 OF BURLAP ROOT-BALL WRAPPER,

RUBBER HOSE SLEEVES AT TRUNK, OR ADJUSTABLE

CONTROL JOINT (3/4" DEEP W/ 1/4" PAD) @ 6' O.C. LIGHT BROOMING

SILT FENCE DETAIL

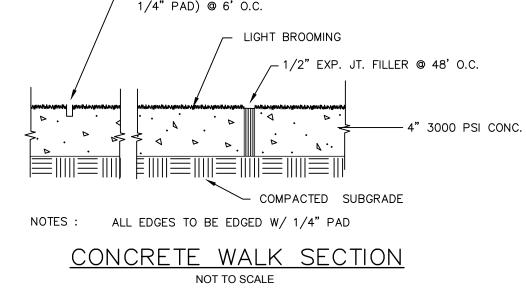
SILT FENCE MAINTENANCE PLAN

CLEANOUT.

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EVERY RAINFALL. MAKE ANY REPAIRS IMMEDIATELY.

SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE AND TO REDUCE PRESSURE ON THE FENCE. tAKE CARE TO AVOID UNDERMINING THE FENCE DURING

REMOVE ALL FENCING MATRIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABLIZE IT AFTER CONTRIBUTING DRAINAGE AREAS HAS BEEN PROPERLY STABILIZED.



	PLANTING SCHEDULE		
Common Name		Size	Qty
LARGE SHADE TREE			
Emerald Sunshine Elm	Ulmus prop. 'JFS-Beiberich'	2*Cal. 8' HIGH	3
Darlington Oak	Quercus lauirifolm	8' TO 10'HGHT 2.5" Cal.	5
SMALL SHADE TREE			
Crape Myrtle Tuscarora	Lagerstroemia	2"Cal. 8' HIGH	14
SHRUBS			
Dwarf Yaupon Holly	llexx vomitoria "nana"	3 Gal.,3' HGHT	27
Common Privet	Ligustrum recurre	3 Gal.,3' HGHT	

LANDSCAPE DATA

FF = 29.6'

N 83°16'Q8" W 379.83'

SPRING VIEW PENTECOSLTAL FREEWILL 801 NORTH COLLEGE

R04220-003-010-000

LANDSCAPE PLAN

SCALE: 1" = 30'

NO TREES ARE SLATED FOR REMOVAL FOR THIS PROJECT 34% EXPANSION

STREETYARD
50% OF NEW CONSTRUCTION - 12 SF PER LINEAR FOOTAGE OF FRONTAGE 8 FT MINIMUM 18' MAXIMUM $210 - 24 = 186 \times 12 = 2232 \text{ SF FOR NEW CONSTRUCTION}$ 1116 SF REQUIRED FOR EVERY 600 SF 1 CANOPY OR 3 UNDERSTORY AND 6 PROVIDED 2418 SF

1116 / 600 = 1.876 2 CANOPY OR 6 UNDERSTORY AND 12 SHRUBS PROVIDED TO SATISFY SHOD REQUIREMENTS

186 / 40 = 4.65PROVIDE ADDITIONAL 5 TREES IN STREET YARD

PROVIDE 1 TREE PER 40' OF FRONTAGE

TOTAL REQUIRED PLANTING IN STREETYARD 7 CANOPY OR 21 UNDERSTORY AND 12 SHRUBS PROVIDED 5 CANOPY 6 UNDERSTORY AND 12 SHRUBS

INTERIOR PLANTINGS 4% OF PARKING AREA 23,955 SF X 4% = 958 SF REQUIRED 974 SF PROVIDED

3 - CANOPY TREES AND 8 UNDERSTORY PROVIDED FOUNDATION PLANTING

REQUIRED ON EAST AND WEST SIDE @ 12% OF THE SQUARE FOOTAGE 1121 SF X 12% = 135 SF REQUIRED WEST SIDE = 1121 SF X 12% = 134 SF REQUIRED

207 SF PROVIDED EAST SIDE = 1121 SF X 12% = 134 SF REQUIRED 251 SF PROVIDED

TRANSITIONAL BUFFER

THE EXISTING BUFFER IS HAS 100% OPACITY FORTHE MAJORITY OF THE WIDTH. TO OBTAIN COMPLETE COVERAGE