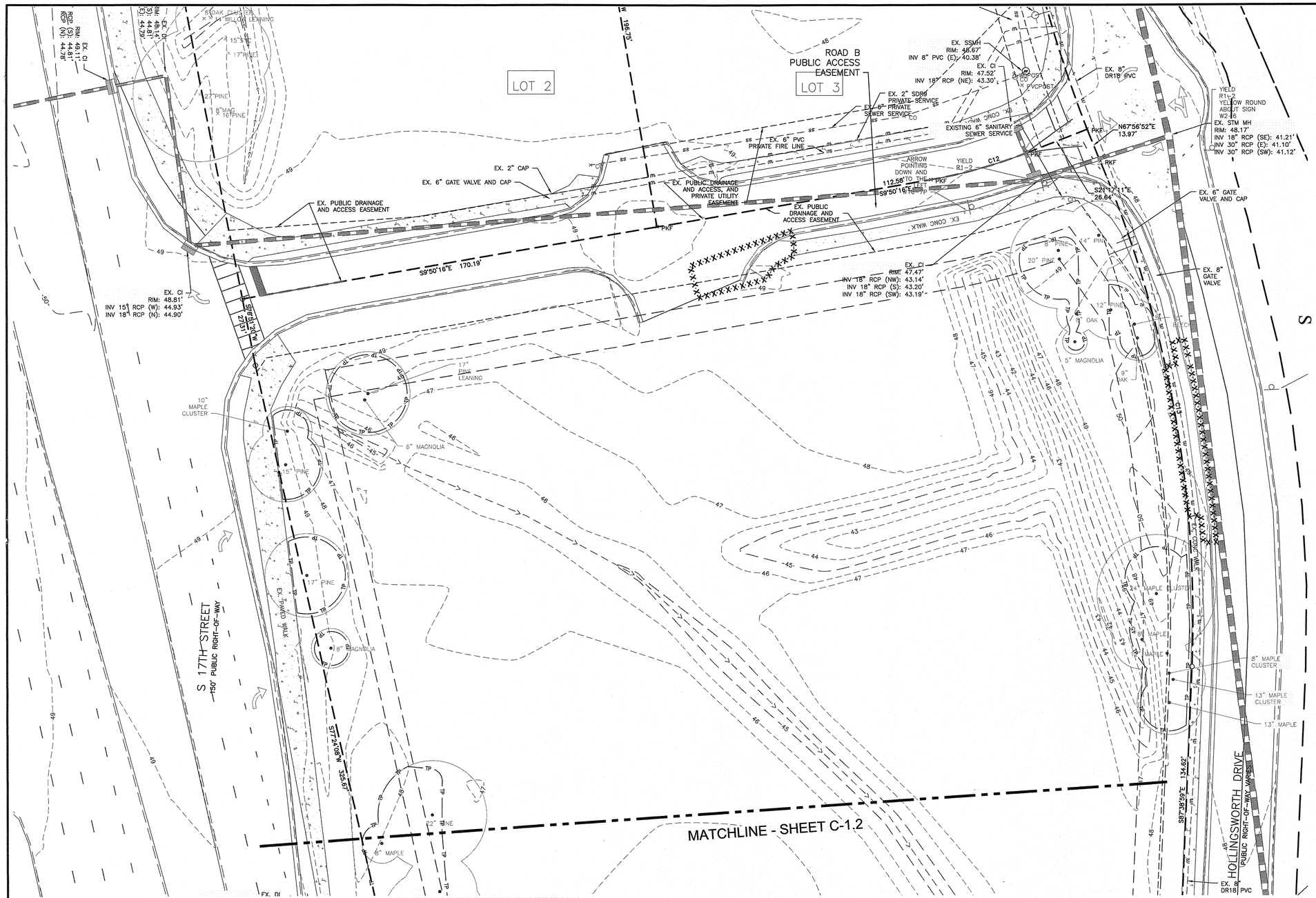
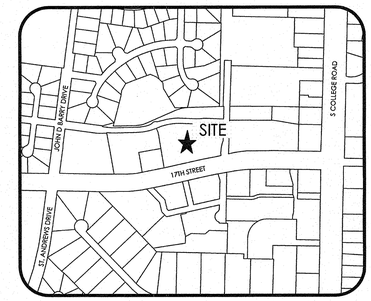
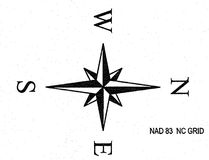



VICINITY MAP

NOT TO SCALE




NAD 83 NC GRID

| SHEET NO. | SHEET TITLE |
|---|---|
| C-1.1 | EXISTING CONDITIONS AND DEMOLITION PLAN |
| C-1.2 | EXISTING CONDITIONS AND DEMOLITION PLAN |
| C-2.1 | SITE LAYOUT PLAN |
| C-2.2 | SITE LAYOUT PLAN |
| C-3.1 | TEMPORARY EROSION CONTROL, GRADING AND STORMWATER PLAN |
| C-3.2 | TEMPORARY EROSION CONTROL, GRADING AND STORMWATER PLAN |
| C-4.1 | EROSION CONTROL, GRADING AND STORMWATER PLAN |
| C-4.2 | EROSION CONTROL, GRADING AND STORMWATER PLAN |
| C-5.1 | DRAINAGE AREA PLAN |
| C-6.1 | UTILITY PLAN |
| C-6.2 | UTILITY PLAN |
| C-7.1 | SITE DETAILS |
| C-7.2 | SITE DETAILS |
| C-7.3 | STORM STRUCTURE DETAILS |
| C-7.4 | EROSION CONTROL, GRADING AND STORMWATER DETAILS |
| C-7.5 | EROSION CONTROL, GRADING AND STORMWATER DETAILS |
| C-7.6 | NCG01 GROUND STABILIZING AND MATERIALS HANDLING |
| C-7.7 | NCG01 SELF INSPECTION, RECORD KEEPING AND REPORTING |
| C-7.8 | UTILITY DETAILS |
| E-1.0 | LIGHTING PLAN |
| L-1.0 | LANDSCAPE PLAN |
| L-2.0 | LANDSCAPE DETAILS |

| Curve Table | | | | | |
|---|---|---|---|---|---|
| Curve # | Length | Radius | Delta | Chord | Chord Direction |
| C10 | 75.96' | 522.50' | 8.33 | 75.89' | S87°08'40"E |
| C11 | 182.18' | 522.50' | 19.98 | 181.26' | N78°42'08"E |
| C12 | 39.97' | 200.00' | 11.45 | 39.90' | S15°33'43"E |
| C13 | 209.75' | 477.50' | 25.17 | 208.07' | N79°45'58"E |
| C14 | 38.79' | 200.00' | 11.11 | 38.73' | S82°05'35"E |
| C15 | 38.79' | 200.00' | 11.11 | 38.73' | S82°05'35"E |
| C16 | 38.84' | 25.00' | 89.01 | 35.05' | S43°08'43"E |
| C17 | 132.76' | 279.73' | 27.19 | 131.52' | S8°36'13"W |
| C18 | 117.43' | 616.45' | 10.91 | 117.25' | N84°21'46"E |

LAND SURVEYOR NOTES:

1. HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED FROM NC VRS.
2. COORDINATES SHOWN ARE GRID COORDINATES.
3. ALL BEARINGS ARE GRID BEARINGS UNLESS OTHERWISE NOTED.
4. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
5. AREAS ARE COMPUTED BY COORDINATE METHOD.
6. THIS MAP IS SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
7. SUBJECT AREA LOCATED WITHIN FLOOD HAZARD ZONE "X" AS SCALED FROM FIRM MAP # 3720313500K, EFFECTIVE DATE: AUGUST 28, 2018.
8. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON SURFACE OBSERVATIONS, UTILITY PAINT MARKINGS PROVIDED BY 811, AND THE BEST AVAILABLE RECORD DRAWINGS. ALL UTILITY LOCATIONS ARE TO BE ASSUMED, AT BEST, AND SHOULD BE FIELD VERIFIED.
9. SEE PLAT FOR ARBOR COMMONS PREPARED BY ATLANTIC COAST SURVEY, PLLC; DATED 9/19/17 AND RECORDED IN P.B. 63, PG. 336.

ENGINEER NOTES:

1. NO WETLANDS EXIST ON SITE PER USACE JURISDICTION DETERMINATION ISSUED 4-9-2019 BY ACTION ID SAW-2012-00566.
2. THERE ARE NO SURFACE WATERS, WETLANDS, REGULATORY FLOOD ZONES, PROTECTED VEGETATED SETBACKS, OR PROTECTED RIPARIAN BUFFERS ON THE SITE.

MARKERS:

- EXISTING RIGHT OF WAY MONUMENT — RWM
- EXISTING CONCRETE MONUMENT — ECM
- EXISTING IRON PIPE — EIP
- IRON PIPE SET — IPS
- EXISTING IRON ROD — EIR
- REBAR SET — IRS
- PK NAIL FOUND — PKF
- PK NAIL SET — PKS
- EXISTING GEODETIC MONUMENT — EGM
- TRAVERSE NAIL — TN
- CALCULATED PROPERTY CORNER
- EXISTING BENCHMARK — BM
- PROPOSED BENCHMARK — BM
- CONTROL CORNER — CC
- NOW OR FORMERLY — N/F
- WETLAND FLAG

LINES:

- RIGHT OF WAY — R/W
- PROPERTY LINE, SURVEYED
- PROPERTY LINE, NOT SURVEYED
- PROPOSED PROPERTY LINE — PL
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING EDGE OF WATER
- PROPOSED EDGE OF WATER
- 100 YEAR FLOOD PLAIN
- AEC LINE
- CAMA LINE
- BUFFER LINE
- EXISTING WETLAND LINE
- EXISTING HIGH WATER LINE

GRADING:

- EXISTING MINOR CONTOUR — 39
- EXISTING MAJOR CONTOUR — 40
- EXISTING SPOT ELEVATION — × 1.00
- TREE PROTECTION — TP TP
- PROPOSED DEMOLITION — X·X·X·X·X·X

GRAPHIC SCALE

20 0 10 20 40

( IN FEET )

1 inch = 20 ft. Horz.

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole D'Smith | 1/30/20 |
| Traffic | W Gorton | 1-30-20 |
| Fire | C. Walker | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed: Ruth Christensen

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance

SEPI
1 GLENWOOD AVE, SUITE 600
RALEIGH, NC 27603
PHONE 919.789.9977
11020 DAVID TAYLOR DR., SUITE 115
CHARLOTTE, NC 28262
PHONE 704.714.4880
5030 NEW CENTRE DR., SUITE B
WILMINGTON, NC 28403
PHONE 910.523.5715
sepiinc.com

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THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI Jan 29 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

ADDRESS:
119 N. SALISBURY STREET
RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH

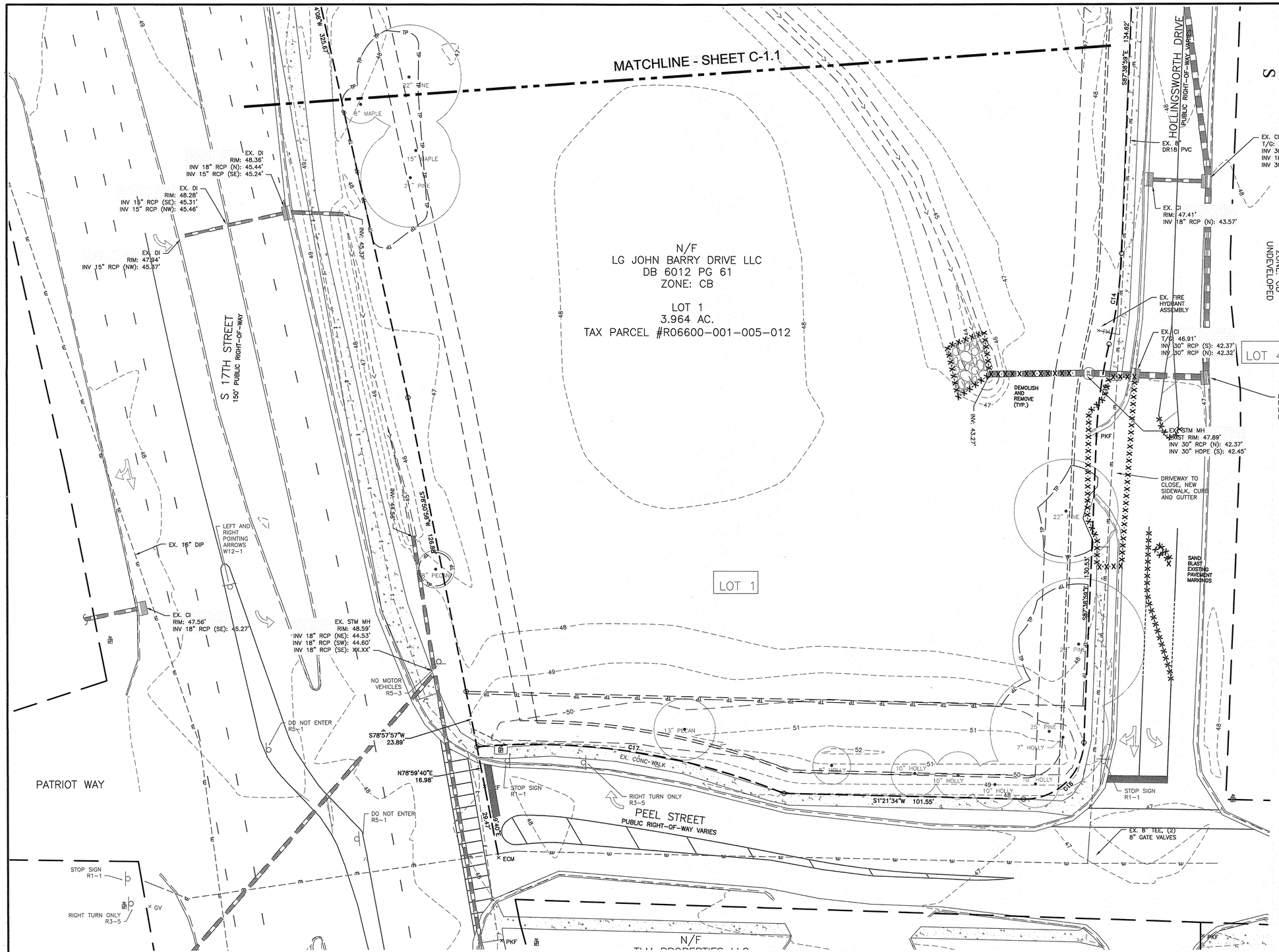
ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

EXISTING CONDITIONS AND DEMOLITION PLAN

| | |
|---|---|
| PROJECT MANAGER | MTA |
| FIELD SURVEY DATE: | 02/15/19 |
| CHECKED BY: | DM |
| DRAWING DATE: | 12/03/2019 |
| DRAWN BY: | KD |
| JOB #: | SE18.191.00 |

SHEET
C-1.1

X:\2018\SE18.191.00 SECU - Wilmington South 17th Street Branch\Design\Planset\Sht Plan\SE18.191.00 C-1.0 EXISTING CONDITIONS.dwg, 1/28/2020 12:11:27 PM, jscott




GEOTECHNICAL NOTES

1. THE SUBGRADE PREPARATION SHOULD CONSIST OF STRIPPING VEGETATION, ROOTMAT, TOPSOIL, EXISTING FILL, AND ANY OTHER SOFT OR UNSUITABLE MATERIALS FROM THE 10-FOOT EXPANDED BUILDING AND 5-FOOT EXPANDED PAVEMENT LIMITS AND TO 5 FEET BEYOND THE TOE OF STRUCTURAL FILLS. THE HAND AUGER BORINGS PERFORMED AT THE SITE ENCOUNTERED ROOTS TO DEPTHS OF 1.75 TO 2.0 FEET. DEEPER TOPSOIL OR ORGANIC LADEN SOILS ARE TYPICALLY PRESENT IN WET, LOW-LYING, AND POORLY DRAINED AREAS. THE GEOTECHNICAL CONSULTANT SHOULD BE CALLED TO VERIFY THAT TOPSOIL, ROOTS, AND UNSUITABLE SURFICIAL MATERIALS HAVE BEEN REMOVED PRIOR TO THE PLACEMENT OF STRUCTURAL FILL OR CONSTRUCTION OF STRUCTURES.
2. IN THE LOCATION OF THE EXISTING DITCHES ON SITE, PRIOR TO PLACEMENT OF FILL OR CONSTRUCTION, APPROXIMATELY 2 FEET OF SURFACE MATERIAL WILL NEED TO BE MUCKED OUT. ACTUAL UNDERCUT DEPENDS ON THE AMOUNT OF ORGANIC SILT ENCOUNTERED. DUE TO THE ROOTS ENCOUNTERED IN THE HAND AUGER BORINGS, ISOLATED UNDERCUTTING TO DEPTHS OF APPROXIMATELY 2 FEET MAY BE NEEDED PRIOR TO PLACEMENT OF FILL.

ZONING CONDITIONS

SECTION 2: THE FOLLOWING RULES, REGULATIONS AND CONDITIONS SHALL APPLY TO THE PROPERTY DESCRIBED IN THE ORDINANCE:

1. THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL COMPLY WITH ALL REGULATIONS AND REQUIREMENTS OF THE LAND DEVELOPMENT CODE, THE CITY OF WILMINGTON TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL AND ANY OTHER APPLICABLE FEDERAL, STATE OR LOCAL LAW, ORDINANCE OR REGULATION, AS WELL AS ANY CONDITION STATED BELOW. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT OR HIGHER STANDARD SHALL APPLY.
2. APPROVAL OF THIS REZONING REQUEST DOES NOT CONSTITUTE TECHNICAL APPROVAL OF THE SITE PLAN. FINAL APPROVAL BY THE TECHNICAL REVIEW COMMITTEE AND THE ISSUANCE OF ALL REQUIRED PERMITS MUST OCCUR PRIOR TO RELEASE OF THE PROJECT FOR CONSTRUCTION.
3. IF, FOR ANY REASON, ANY CONDITION FOR APPROVAL IS FOUND TO BE ILLEGAL OR INVALID OR IF THE APPLICANT SHOULD FAIL TO ACCEPT ANY CONDITION FOLLOWING APPROVAL, THE APPROVAL OF THE SITE PLAN FOR THE DISTRICT SHALL BE NULL AND VOID AND OF NO EFFECT AND PROCEEDINGS SHALL BE INSTITUTED TO REZONE THE PROPERTY TO ITS PREVIOUS ZONING CLASSIFICATION.
4. THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHALL BE IN ACCORDANCE WITH THE PLAN AS SUBMITTED APRIL 25, 2016.
5. ALL EXISTING PROTECTED TREES NOT IMPACTED BY ESSENTIAL SITE IMPROVEMENTS SHALL BE PRESERVED OR MITIGATED.
6. EXTERIOR SITE LIGHTING SHALL BE INSTALLED SO AS NOT TO SHINE DIRECTLY ONTO ADJACENT PARCELS AND SHALL BE LIMITED TO FULL CUTOFF TYPE FIXTURES.
7. A CONCEPTUAL SITE LIGHTING PLAN SHALL BE SUBMITTED PRIOR TO CONSTRUCTION RELEASE.
8. ANY FREESTANDING SIGN(S) ON THE SITE SHALL BE MONUMENT STYLE WITH LANDSCAPING AROUND THE BASE OF THE SIGN; NO POLE SIGNS SHALL BE PERMITTED.
9. TREE PROTECTION FENCING SHALL BE INSTALLED AROUND ALL PROTECTED TREES WITH SIGNAGE OF NO MATERIAL STORAGE IN ENGLISH AND SPANISH.
10. ALL REQUIREMENTS OF THE TRAFFIC IMPACT ANALYSIS (TIA) SHALL BE FOLLOWED, AND REQUIRED IMPROVEMENTS SHALL BE CONSTRUCTED BY THE APPLICANT PRIOR TO ISSUANCE OF ANY CERTIFICATES OF OCCUPANCY.
11. ALL CITY, STATE AND FEDERAL REGULATIONS SHALL BE FOLLOWED.
12. THE PROPOSED BUILDING ELEVATIONS ALONG SOUTH 17TH STREET SHALL BE CONSTRUCTED SO AS TO AVOID THE APPEARANCE OF BLANK WALLS.
13. THE APPLICANT SHALL PROVIDE TRAFFIC CALMING AT THE PROPOSED "T" INTERSECTION OF THE THROUGH ACCESS DRIVEWAY WITH THE PROPOSED PUBLIC STREET.

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole DiMuth | 1/30/20 |
| Traffic | | 1-30-20 |
| Fire | C. Wade | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed:

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( IN FEET )
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NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI Jan 29, 2020

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OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

ADDRESS:
119 N. SALISBURY STREET
RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-3300

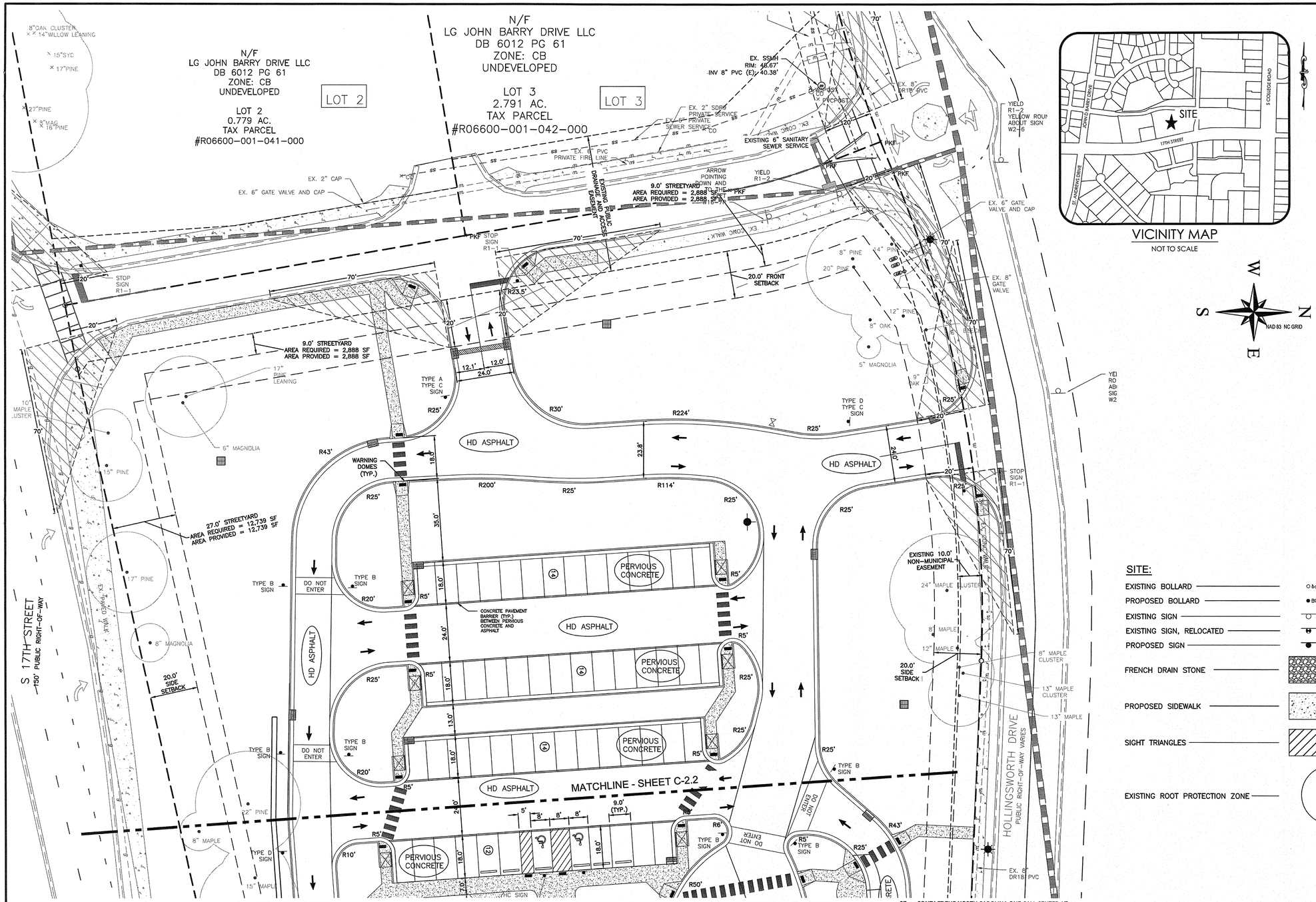
PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON S 17th STREET BRANCH

ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

EXISTING CONDITIONS AND DEMOLITION PLAN

| PROJECT MANAGER | FIELD SURVEY DATE: |
|---|---|
| MTA | 02/15/19 |
| CHECKED BY: | DRAWING DATE: |
| DM | 12/03/2019 |
| DRAWN BY: | JOB #: |
| KD | SE18.191.00 |

SHEET
C-1.2







VICINITY MAP

NOT TO SCALE




## SITE INVENTORY TABLE

| | | |
|---|---|---|
| PID: | R06600-001-005-012 (LOT 1)<br>R06600-001-041-000 (LOT 2)<br>R06600-001-042-000 (LOT 3)<br>R06600-001-043-000 (LOT 4) | |
| ZONING (ALL LOTS): | (CITY COUNCIL APPROVED CONDITIONS) | CB-CD |
| BUILDING SETBACKS | | |
| FRONT: | | 20 FT |
| SIDE: | | 20 FT |
| REAR: | | 10 FT |
| AREA OF LOT: | | 3.97 ACRES |
| BUILDING SIZE | | |
| BRANCH BUILDING: | | 8,526 SQ FT |
| REMOTE ATM KIOSK: | | 96 SQ FT |
| TOTAL: | 8,622 SQ FT | |
| BUILDING FOOTPRINT | | |
| BRANCH BUILDING: | | 10,099 SQ FT |
| REMOTE ATM KIOSK: | | 107 SQ FT |
| TOTAL: | 10,206 SQ FT | |
| BUILDING LOT COVERAGE | | |
| 10,206 SQ FT / 3.97 ACRES: | | 5.9% |
| NUMBER OF UNITS: | | N/A |
| NUMBER OF BUILDINGS: | | 1 |
| BUILDING HEIGHT: | | 34 FT |
| NUMBER OF STORIES: | | 1 |
| FIRST FLOOR: | | 8,399 |
| MEZZANINE: | | 715 |
| IMPERVIOUS AREA | | |
| PRE DEVELOPMENT: | | 0 SF<br>0% (LOT 1) |
| POST DEVELOPMENT: | | 66,921 SF<br>39% |
| BUILDING TYPE: | | 5B |
| TREE CALCULATIONS: | | 48 |
| PARKING(SPACES): | | |
| REQUIRED | | |
| MIN 1SP/400SF: | | 21 |
| MAX 1SP/200SF: | | 43 |
| PROVIDED | | |
| STANDARD: | | 52 |
| HANDICAP: | | 2 |
| TOTAL: | | 54 |
| CITY OF WILMINGTON PLANNING STAFF APPROVED 25% PARKING SPACE QUANTITY OVER MAX ALLOWED PER SEC. 18-528 (d) ON SEPTEMBER 10, 2019 | | |
| CAMA LAND CLASSIFICATION: | | URBAN |
| CAMA AEC AND SETBACKS: | | NONE |
| HISTORICAL OR ARCHAEOLOGICAL SITES: | | NONE |
| CEMETERY: | | NONE |
| WETLANDS: | | NONE |
| ENDANGERED SPECIES OR HABITAT: | | NONE |
| CONSERVATION AREAS: | | NONE |
| MEAN HIGH WATER LINE: | | NONE |
| WATER SHED: | | BARNARD'S CREEK |
| RIVER BASIN: | | CAPE FEAR RIVER |
| EXISTING OR PROPOSED THOROUGHFARES: | | NONE |
| BIKE ROUTES: | | NONE |
| PEDESTRIAN SIDEWALKS: | | AS SHOWN |
| TRANSIT FACILITIES: | | NONE |
| SOIL TYPE: | LEON SAND;MURVILLEFINE SAND;RIMINI SAND,1 TO 6 PERCENT SLOPES | |

## SITE:

EXISTING BOLLARD — ○ bol

PROPOSED BOLLARD — ● BOL

EXISTING SIGN — ○

EXISTING SIGN, RELOCATED — ⊖

PROPOSED SIGN — ●

FRENCH DRAIN STONE

PROPOSED SIDEWALK

SIGHT TRIANGLES

EXISTING ROOT PROTECTION ZONE

## ENGINEER NOTES

1. 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 ENSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL 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 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 ARE SHOWN ON THE PLAN.
8. CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
9. TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
10. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
11. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
12. STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
13. TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
14. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
15. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
16. CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
17. WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
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 910-343-3910 FOR INFORMATION.
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 WATER METER BOX.
20. ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REGULATIONS. CALL 919-343-3910 FOR INFORMATION.
21. 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 THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696.
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, OR GRADING
28. DRIVEWAY DESIGN MATCHES EXISTING CONDITIONS AND DOES NOT CONFORM TO CITY STANDARDS
29. NO STREET INTERSECTIONS WITHIN 500' OF SITE
30. THE MAXIMUM HEIGHT AND AREA OF THE MAIN SIGN ON 17TH STREET IS 20 FEET AND 50 SQUARE FEET RESPECTIVELY.
31. ALL RADII ARE FACE OF CURB.
32. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE [PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
33. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE FIE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT.
34. ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
35. CONTRACTORS SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATE THAT EXISTING FIRE EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 FIRE CODE.
36. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND PRIOR APPROVAL TO THE RECORDING OF THE FINAL PLAT.
37. STREET TREES MUST BE LOCATED A MINIMUM OF 15 FEET FROM STREET LIGHTS.

GRAPHIC SCALE

20 0 10 20 40

( IN FEET )

1 inch = 20 ft. Horz.

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole Dsmith | 1/30/20 |
| Traffic | W Smith | 1-30-20 |
| Fire | C. Wahr | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed:

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance

SEPI
1 GLENWOOD AVE, SUITE 600
RALEIGH, NC 27603
PHONE 919.789.9977
11020 DAVID TAYLOR DR., SUITE 115
CHARLOTTE, NC 28262
PHONE 704.714.4880
5030 NEW CENTRE DR., SUITE B
WILMINGTON, NC 28403
PHONE 910.523.5715
sepiinc.com

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NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI — JAN 27, 2020
SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

ADDRESS:
119 N. SALISBURY STREET
RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH

ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

SITE LAYOUT PLAN

| | |
|---|---|
| PROJECT MANAGER: MTA | FIELD SURVEY DATE: 02/15/19 |
| CHECKED BY: DM | DRAWING DATE: 12/03/2019 |
| DRAWN BY: KD | JOB #: SE18.191.00 |

SHEET
C-2.1

MATCHLINE - SHEET C-2.1

S 17TH STREET
150' PUBLIC RIGHT-OF-WAY

HOLLINGSWORTH DR
PUBLIC RIGHT-OF-WAY VARIES

PATRIOT WAY

PEEL STREET
PUBLIC RIGHT-OF-WAY VARIES

LOT 1

LOT 4

N/F
TLM PROPERTIES LLC
DB 4933 PG 1987
ZONE: CB
GAS STATION AND
CONVENIENCE STORE

DB 6012 PG 61
ZONE: CB
UNDEVELOPED

HD ASPHALT
PERVIOUS CONCRETE
LD CONCRETE
HD CONCRETE

TYPE B SIGN
TYPE D SIGN
DO NOT ENTER
HC SIGN (TYP.)
3 BIKE RACKS & CONCRETE PAD (6 BIKE PARKING SPOTS)
ATM
DRIVE THRU
WHEEL PAD
DUMPSTER (SCREEN PER CITY STANDARDS)
DUKE ELECTRIC CONCRETE PAD
RETAINING WALL
SECU MAIN SIGN
LEFT AND RIGHT POINTING ARROWS W12-1
NO MOTOR VEHICLES R5-3
DO NOT ENTER R5-1
STOP SIGN R1-1
RIGHT TURN ONLY R3-5
EX. PUBLIC ACCESS EASEMENT FOR SIDEWALK TIE TO MULTIUSE PATH
EX. 40' LANDSCAPE BUFFER TO REMAIN
PROPOSED LIMITS OF DISTURBANCE
EX. CONC. WALK
EX. 8" DR18 PVC
EX. FIRE HYDRANT ASSEMBLY
EX. 8" TEE, (2) 8" GATE VALVES
4" SOLID YELLOW LINE
3'-9'/SP MINI SKIP LINES
WHITE ARROW
4" SOLID WHITE LINE
EXISTING 10.0' NON-MUNICIPAL EASEMENT
ECM
PKF
CV

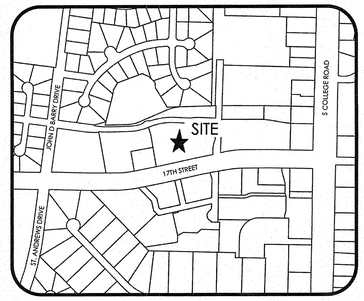
27.0' STREETYARD
AREA REQUIRED = 12,739 SF
AREA PROVIDED = 12,739 SF

9.0' STREETYARD
AREA REQUIRED = 4,958 SF
AREA PROVIDED = 4,958 SF

9.0' STREETYARD
AREA REQUIRED = 2,143 SF
AREA PROVIDED = 2,143 SF

20.0' SIDE SETBACK
10.0' REAR SETBACK
27.2'
46'

22" PINE
8" MAPLE
15" MAPLE
21" PINE
8" PECAN
13" PECAN
25" PINE
7" HOLLY
8" HOLLY
10" HOLLY




VICINITY MAP
NOT TO SCALE

NAD 83 NC GRID

GRAPHIC SCALE
20 0 10 20 40
( IN FEET )
1 inch = 20 ft. Horz.

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole Dymuth | 1/30/20 |
| Traffic | W Symmes | 1-30-20 |
| Fire | C. Wike | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed: Keith Christensen

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance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NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI Jan 21, 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

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PHONE: 919-839-5300

PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH

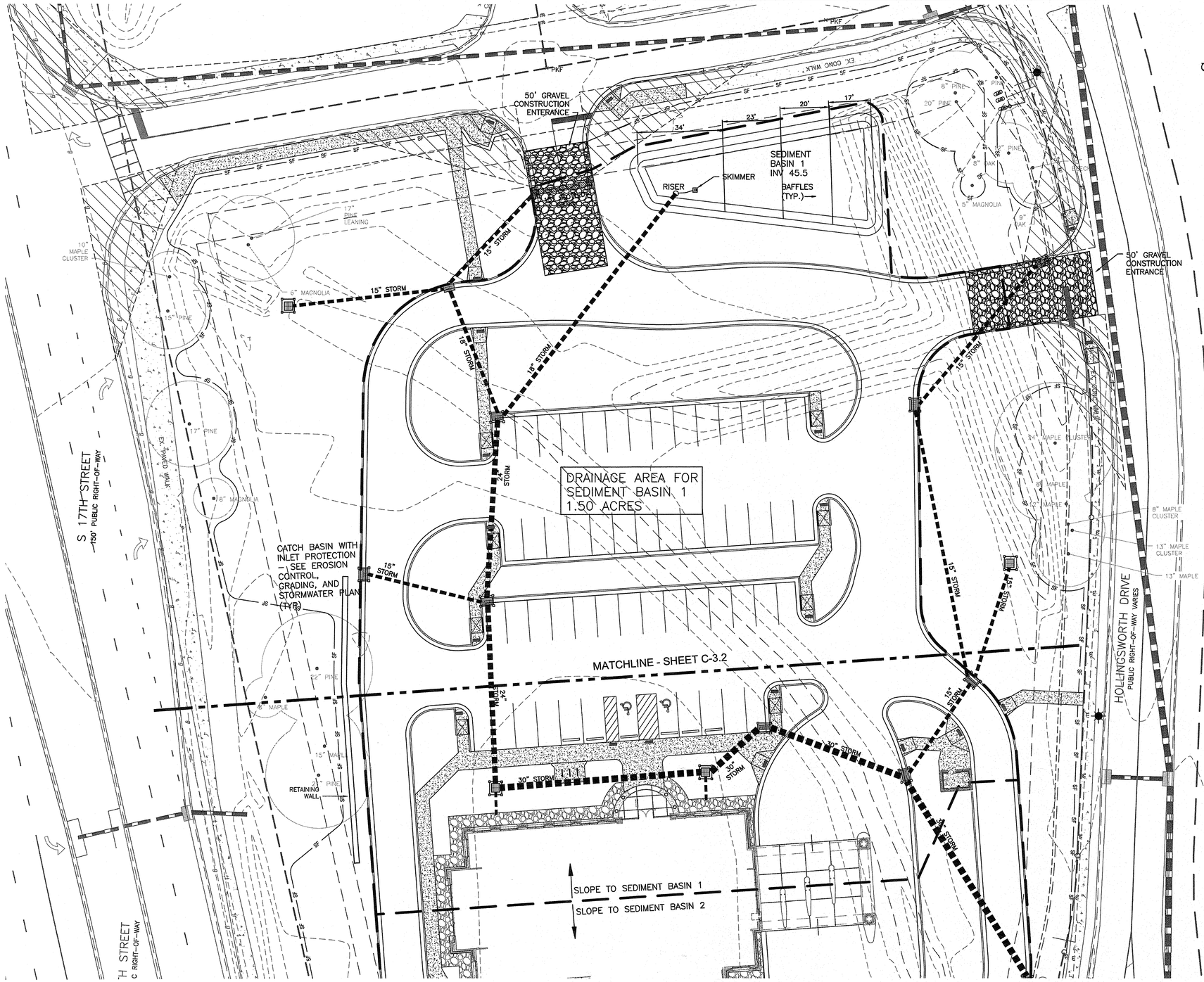
ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

SITE LAYOUT PLAN

| PROJECT MANAGER | FIELD SURVEY DATE: |
|---|---|
| MTA | 02/15/19 |
| CHECKED BY: | DRAWING DATE: |
| DM | 12/09/2019 |
| DRAWN BY: | JOB #: |
| KD | SE18.191.00 |

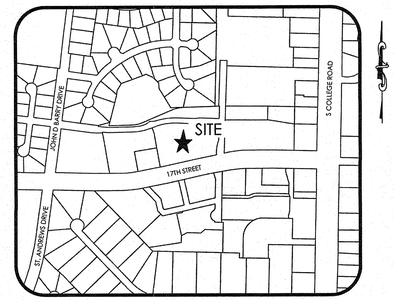
SHEET
C-2.2

X:\2018\SE18.191.00 SECU - Wilmington South 17th Street Branch\Design\Planset\Site Plan\SE18.191.00 C-2.0 SITE PLAN.dwg, 1/28/2020 1:29:40 PM, jscott




W S N E

NAD 83 NC GRID




VICINITY MAP

NOT TO SCALE

## GRADING:

| | |
|---|---|
| EXISTING MINOR CONTOUR | 39 |
| PROPOSED MINOR CONTOUR | 39 |
| EXISTING MAJOR CONTOUR | 40 |
| PROPOSED MAJOR CONTOUR | 40 |
| EXISTING SPOT ELEVATION | × 1.00 |
| PROPOSED SPOT ELEVATION | ✖ 1.00 |
| EXISTING GRADE ARROW | |
| PROPOSED GRADE ARROW | |

## MISCELLANEOUS:

| | |
|---|---|
| PROPOSED SILT FENCE | SF SF |
| PROPOSED LIMITS OF DISTURBANCE | LD LD |
| INLET PROTECTION | |
| PROPOSED TREE PROTECTION | TP TP |
| PROPOSED GRAVEL | |

## NOTE:

SEE EROSION CONTROL, GRADING, AND STORMWATER PLAN FOR STORM STRUCTURE ELEVATIONS.

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole D'Smith | 1/30/20 |
| Traffic | W Smith | 1-30-20 |
| Fire | C. Wade | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: 1/30/2020 Permit # 20200003

Signed:

GRAPHIC SCALE

20 0 10 20 40

( IN FEET )

1 inch = 20 ft. Horz.

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance

SEPI

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NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI Jan 29, 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

ADDRESS:
119 N. SALISBURY STREET
RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

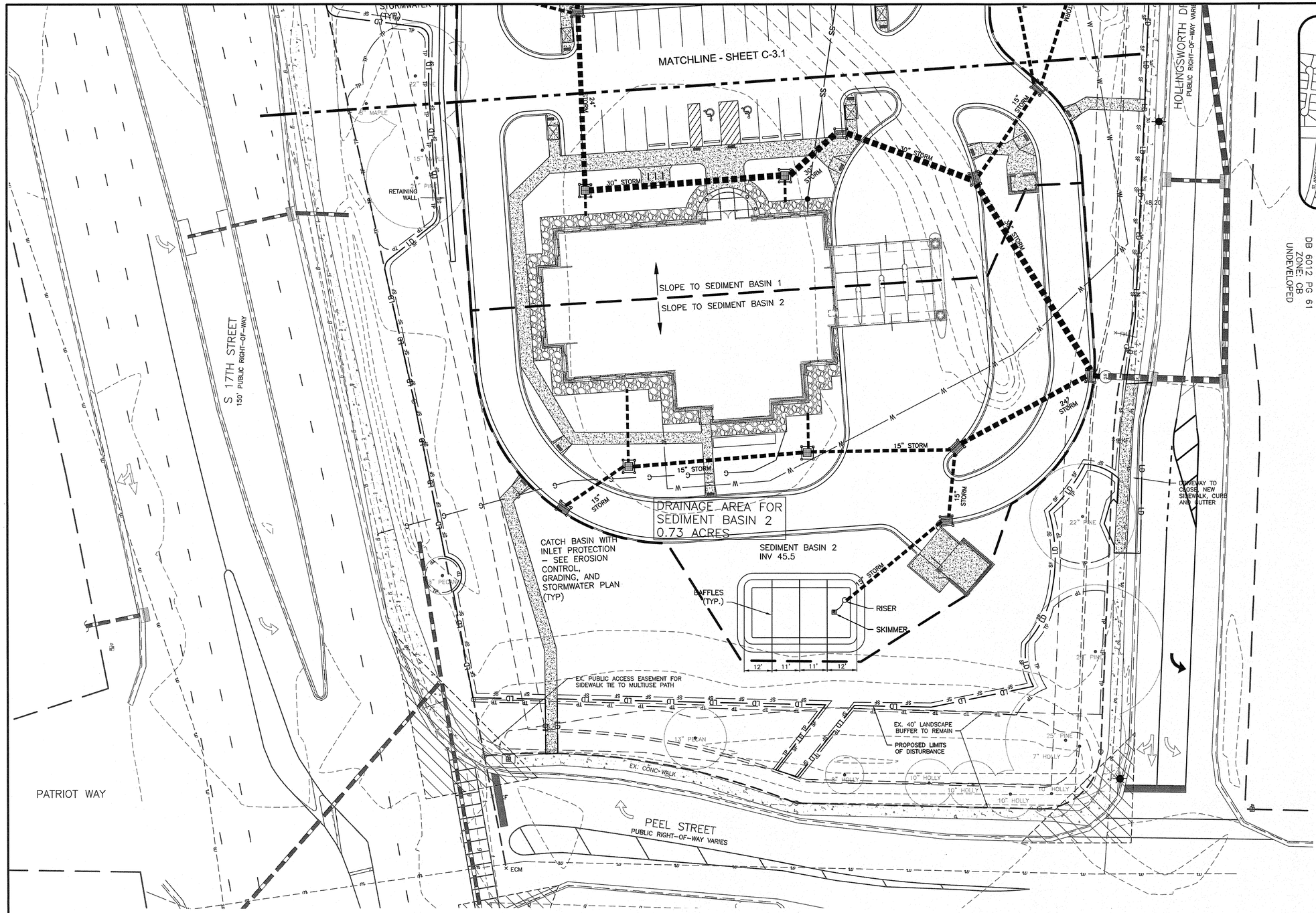
PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH

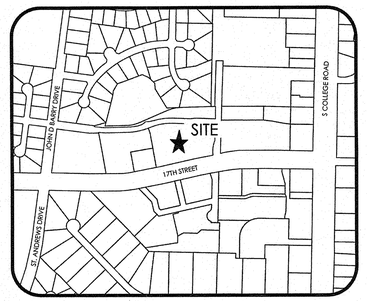
ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

TEMPORARY EROSION CONTROL, GRADING, AND STORMWATER PLAN

| PROJECT MANAGER | FIELD SURVEY DATE: |
|---|---|
| MTA | 02/15/19 |
| CHECKED BY: DM | DRAWING DATE: 12/03/2019 |
| DRAWN BY: KD | JOB #: SE18.191.00 |

SHEET
C-3.1




VICINITY MAP

NOT TO SCALE

DB 6012 PG 61
ZONE: CB
UNDEVELOPED

NAD 83 NC GRID

NOTE:
SEE EROSION CONTROL, GRADING, AND STORMWATER PLAN FOR STORM STRUCTURE ELEVATIONS.

GRAPHIC SCALE
20 0 10 20 40
( IN FEET )
1 inch = 20 ft. Horz.

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole D'Amico | 1/30/20 |
| Traffic | W Smith | 1-30-20 |
| Fire | C. Vale | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed: Rich Christman

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NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI Jan 21, 2020

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PHONE: 919-839-5300

PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH

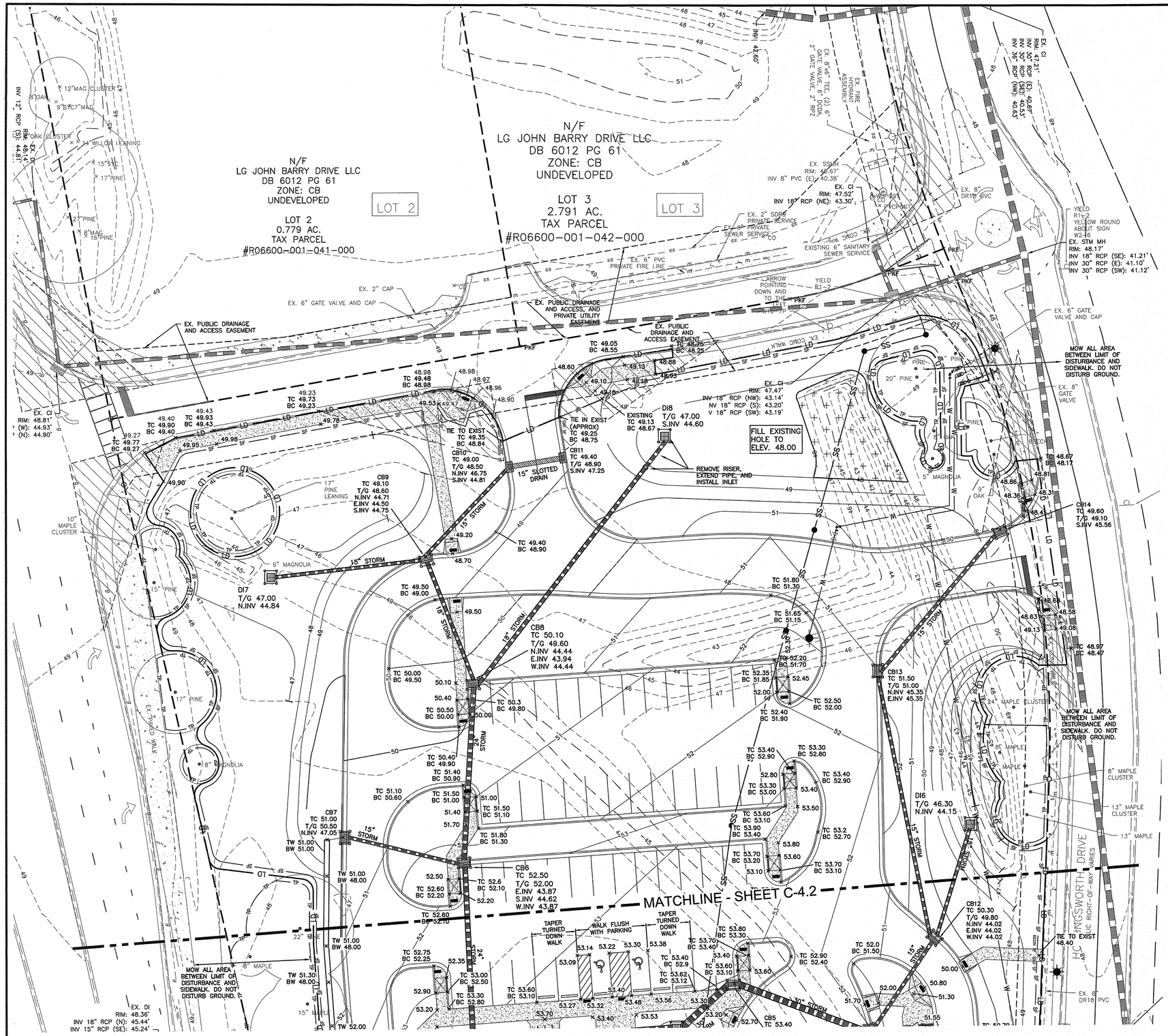
ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

TEMPORARY EROSION CONTROL, GRADING, AND STORMWATER

| PROJECT MANAGER | FIELD SURVEY DATE: |
|---|---|
| MTA | 02/15/19 |
| CHECKED BY: | DRAWING DATE: |
| DM | 12/03/2019 |
| DRAWN BY: | JOB #: |
| KD | SE18.191.00 |

SHEET
C-3.2

K:\2018\SE18.191.00 SECU - Wilmington South 17th Street Branch\Design\Planset\Site Plan\SE18191.00 C-3.0 TEMP GRADING.dwg, 1/30/2020 11:45:31 PM, jscott




## VICINITY MAP

NOT TO SCALE

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole D'Smith | 1/30/20 |
| Traffic | W Smith | 1-30-20 |
| Fire | C. Wehr | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 2020003
Signed:

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance


SEPI
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PHONE 919.789.9977
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NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI Jan 29, 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



| | | |
|---|---|---|
| 1 | REPAINING WALL PER CITY COMMENTS | 12/16/2019 |
| 2 | PER CITY COMMENTS | 12/18/2019 |
| 3 | DOE PATTAY CHANGED | 01/03/2020 |

OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

ADDRESS:
119 N. SALISBURY STREET
RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON S 17th STREET BRANCH

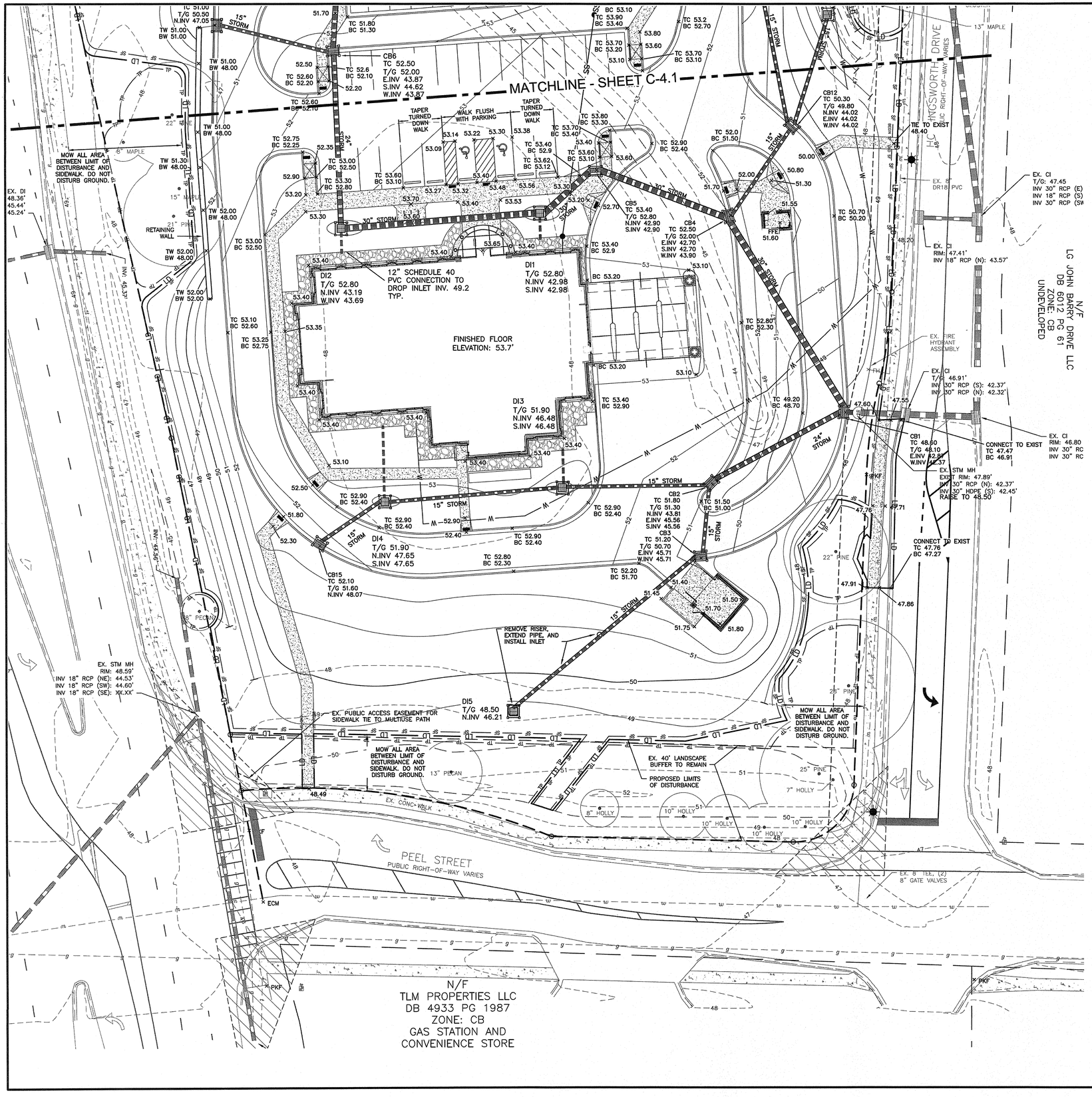
ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

# EROSION CONTROL, GRADING, AND STORMWATER PLAN

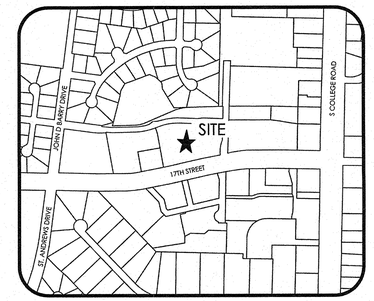
| | |
|---|---|
| PROJECT MANAGER: MTA | FIELD SURVEY DATE: 02/5/19 |
| CHECKED BY: DM | DRAWING DATE: 12/09/2019 |
| DRAWN BY: KD | JOB #: SE18.191.00 |

SHEET
C-4.1

K:\2018\SE18.191.00 SECU - Wilmington South 17th Street Branch\Design\Planset\Site Plan\SE18191000 C-4.0 GRADING.dwg, 1/29/2020 1:48:33 PM, jkott








VICINITY MAP

NOT TO SCALE

## GRADING:

| | |
|---|---|
| EXISTING MINOR CONTOUR | 39 |
| PROPOSED MINOR CONTOUR | 39 |
| EXISTING MAJOR CONTOUR | 40 |
| PROPOSED MAJOR CONTOUR | 40 |
| EXISTING SPOT ELEVATION | × 1.00 |
| PROPOSED SPOT ELEVATION | × 1.00 |
| EXISTING STORM PIPE | |
| PROPOSED STORM PIPE | |
| EXISTING DITCH AND FLOW DIRECTION | |
| EXISTING STORM MANHOLE | ST |
| PROPOSED STORM MANHOLE | ST |
| PROPOSED CURB INLET | |
| PROPOSED DROP INLET | |
| T/G | TOP OF GRATE |
| BC | BACK OF CURB |
| TC | TOP OF CURB |
| CB | CATCH BASIN / CURB INLET |
| DI | DROP INLET |
| N./E./S./W. INV | NORTH, EAST, SOUTH, WEST INVERT |
| FILL EXISTING | |
| INLET PROTECTION | |
| PROPOSED SILT FENCE | SF SF |
| PROPOSED LIMITS OF DISTURBANCE | LD LD |
| PROPOSED TREE PROTECTION | TP TP |

DISTURBED AREA

| | |
|---|---|
| PROPOSED: | 3.55 AC |
| | 154,750 SF |
| PERCENTAGE: | 89% |

ENGINEER NOTE

STORM DRAIN PIPE SHALL BE POLYPROPYLENE PIPE OR REINFORCED CONCRETE PIPE. IF RCP IT SHALL MEET CLASS 3 STANDARDS.

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole Dsmith | 1/30/20 |
| Traffic | | 1-30-20 |
| Fire | C. Wick | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed:

GRAPHIC SCALE

20 0 10 20 40

( IN FEET )

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NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI Jan 17, 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



| | | |
|---|---|---|
| 1 | REPAINING WALL PER CITY COMMENTS | 12/16/2019 |
| 2 | PED CITY COMMENTS | 12/18/2019 |
| 3 | USE PATHWAY CHANGED | 01/03/2020 |

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PROJECT
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S 17th STREET BRANCH

ADDRESS:
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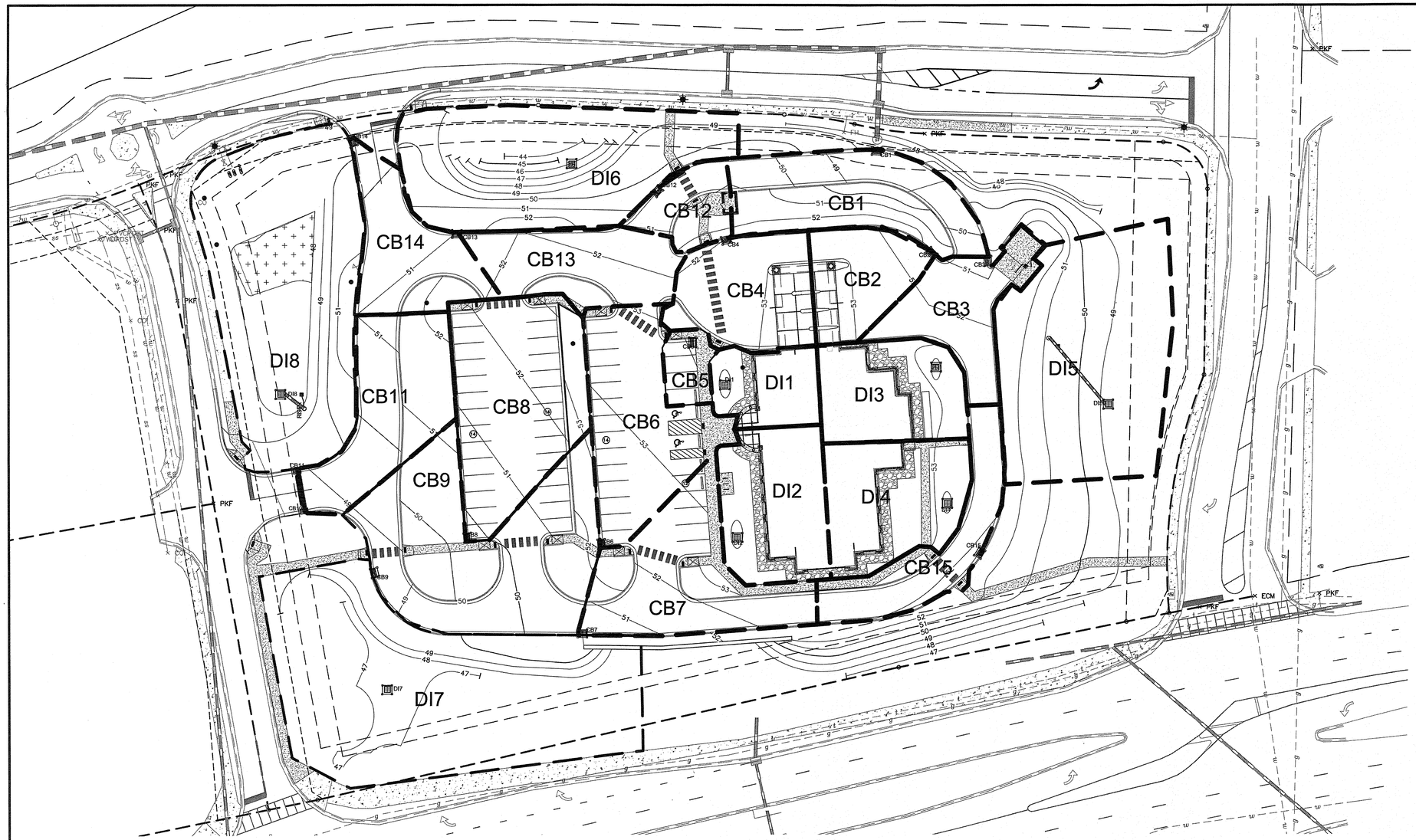
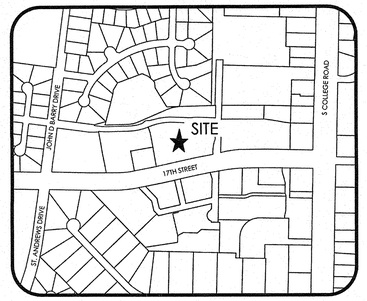
WILMINGTON NC 28412

EROSION CONTROL, GRADING, AND STORMWATER PLAN

| | |
|---|---|
| PROJECT MANAGER: MTA | FIELD SURVEY DATE: 02/15/19 |
| CHECKED BY: DM | DRAWING DATE: 12/03/2019 |
| DRAWN BY: KD | JOB #: SE18.191.00 |

SHEET
C-4.2




VICINITY MAP

NOT TO SCALE

N W E S

NAD 83 NC GRID

GRAPHIC SCALE

30 0 15 30 60

( IN FEET )

1 inch = 30 ft. Horz.

| Drainage Numbers | Impervious Area (SF) | Pervious Area (SF) | Total Area (SF). | Total Acres | Impervious C | Pervious C | Resultant C | Percent Impervious (%) |
|---|---|---|---|---|---|---|---|---|
| CB1 | 3009 | 2699 | 5708 | 0.13 | 0.95 | 0.17 | 0.58 | 53 |
| CB2 | 3077 | 0 | 3077 | 0.07 | 0.95 | 0.17 | 0.95 | 100 |
| CB3 | 3577 | 0 | 3577 | 0.08 | 0.95 | 0.17 | 0.95 | 100 |
| CB4 | 4221 | 206 | 4427 | 0.10 | 0.95 | 0.17 | 0.91 | 95 |
| CB5 | 996 | 32 | 1028 | 0.02 | 0.95 | 0.17 | 0.93 | 97 |
| DI1 | 1615 | 792 | 2407 | 0.06 | 0.95 | 0.17 | 0.69 | 67 |
| DI2 | 5489 | 1898 | 7387 | 0.17 | 0.95 | 0.17 | 0.75 | 74 |
| CB6 | 6308 | 0 | 6308 | 0.14 | 0.95 | 0.17 | 0.95 | 100 |
| CB7 | 5353 | 899 | 6252 | 0.14 | 0.95 | 0.17 | 0.84 | 86 |
| CB8 | 6864 | 898 | 7762 | 0.18 | 0.95 | 0.17 | 0.86 | 88 |
| CB9 | 6601 | 3615 | 10216 | 0.23 | 0.95 | 0.17 | 0.67 | 65 |
| CB10 | 0 | 0 | 0 | 0.00 | 0.95 | 0.17 | 0.00 | 0 |
| DI3 | 2274 | 1990 | 4264 | 0.10 | 0.95 | 0.17 | 0.59 | 53 |
| DI4 | 2474 | 2518 | 4992 | 0.11 | 0.95 | 0.17 | 0.56 | 50 |
| CB15 | 3551 | 143 | 3694 | 0.08 | 0.95 | 0.17 | 0.92 | 96 |
| CB12 | 1437 | 461 | 1898 | 0.04 | 0.95 | 0.17 | 0.76 | 76 |
| CB13 | 3584 | 439 | 4023 | 0.09 | 0.95 | 0.17 | 0.86 | 89 |
| CB14 | 3630 | 547 | 4177 | 0.10 | 0.95 | 0.17 | 0.85 | 87 |
| CB11 | 3032 | 2194 | 5226 | 0.12 | 0.95 | 0.17 | 0.62 | 58 |
| DI5 | 0 | 11746 | 11746 | 0.27 | 0.95 | 0.17 | 0.17 | 0 |
| DI6 | 0 | 10239 | 10239 | 0.24 | 0.95 | 0.17 | 0.17 | 0 |
| DI7 | 0 | 17125 | 17125 | 0.39 | 0.95 | 0.17 | 0.17 | 0 |
| DI8 | 0 | 13576 | 13576 | 0.31 | 0.95 | 0.17 | 0.17 | 0 |
| Totals | 67092 | 72017 | 139109 | 3.19 | 0.95 | 0.17 | 0.55 | 48 |

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole D Smith | 1/30/20 |
| Traffic | | 1-30-20 |
| Fire | C. Wall | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: 1/30/2020 Permit # 20200003

Signed:

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance

SEPI

1 GLENWOOD AVE, SUITE 600
RALEIGH, NC 27603
PHONE 919.789.9977

11020 DAVID TAYLOR DR., SUITE 115
CHARLOTTE, NC 28262
PHONE 704.714.4880

5030 NEW CENTRE DR., SUITE B
WILMINGTON, NC 28403
PHONE 910.523.5715

sepiinc.com

811 Know what's below. Call before you dig. 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:

CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI Jan 29, 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

ADDRESS:
119 N. SALISBURY STREET
RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH

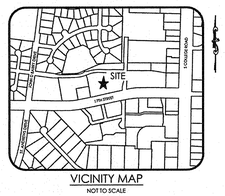
ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

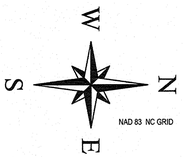
DRAINAGE AREA PLAN

| PROJECT MANAGER | FIELD SURVEY DATE: |
|---|---|
| MTA | 02/15/19 |
| CHECKED BY: DM | DRAWING DATE: 12/09/2019 |
| DRAWN BY: KD | JOB #: SE18.191.00 |

SHEET
C-5.1

K:\DWG\SE18.191.00 SECU - Wilmington South 17th Street Branch\Design\Planset\Site Plan\SE18191005 C-410 DRAINAGE.dwg, 1/28/2020 1:51:27 PM, jscott


GRAPHIC SCALE

20 0 10 20 40

( IN FEET )

1 inch = 20 ft. Horz.

| Approved Construction Plan | Name | Date |
|---|---|---|
| Planning | Nicole D Smith | 1/30/20 |
| Traffic | W Smith | 1-30-20 |
| Fire | C. Wall | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: 1/30/2020 Permit # 20200003

Signed: Nick Christman

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seplinc.com


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NORTH CAROLINA PROFESSIONAL SEAL 21419 ENGINEER MARK T. ARCURI Dec 23, 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

ADDRESS:
119 N. SALISBURY STREET
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PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH

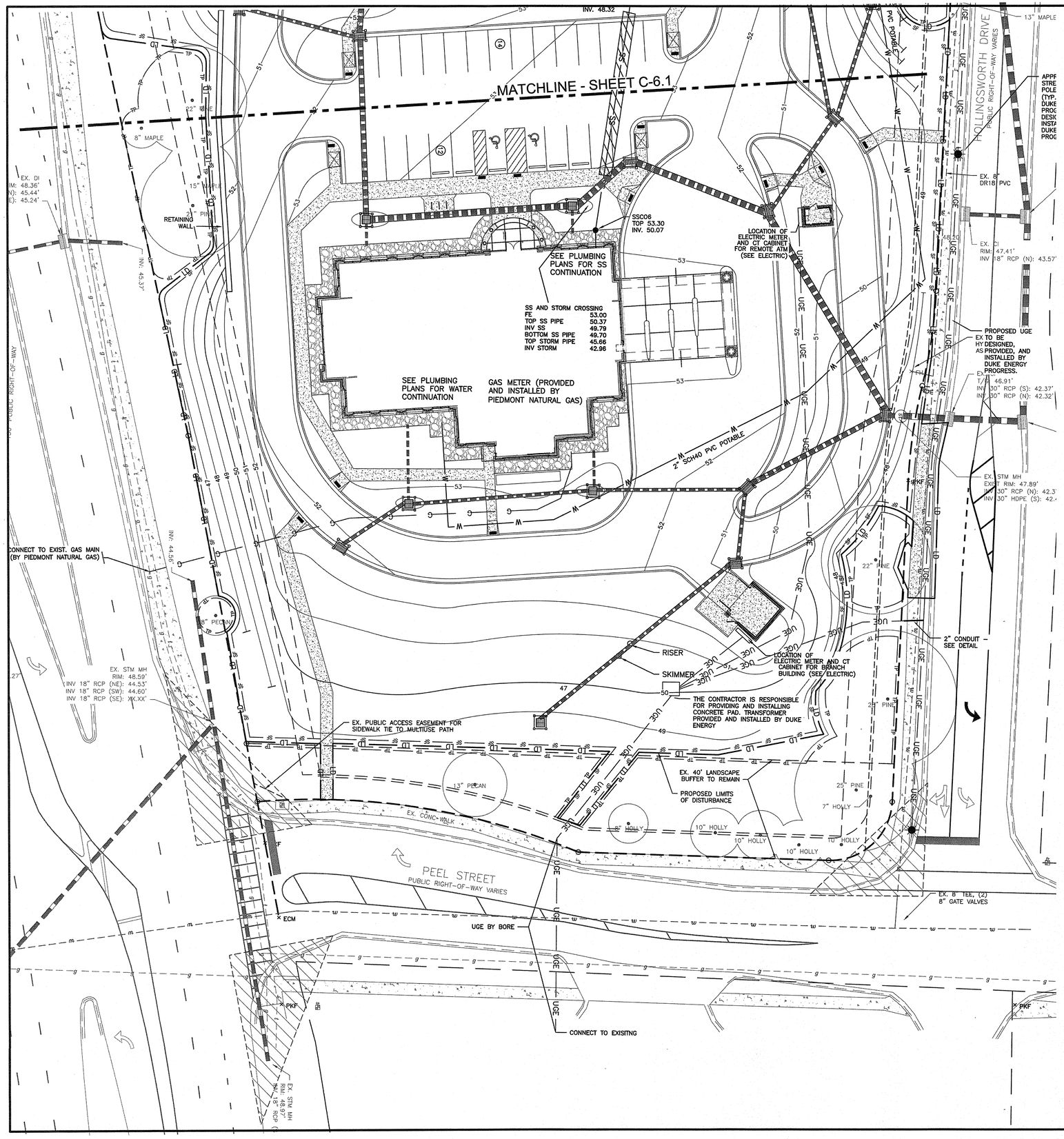
ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

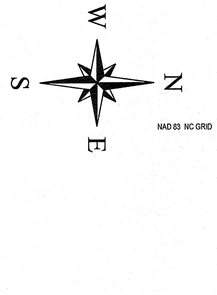
UTILITY PLAN

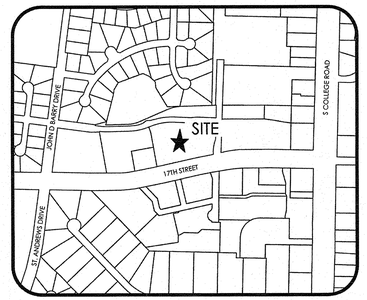
| PROJECT MANAGER | FIELD SURVEY DATE: |
|---|---|
| MTA | 02/15/19 |
| CHECKED BY: | DRAWING DATE: |
| DM | 12/03/2019 |
| DRAWN BY: | JOB #: |
| KD | SE18.191.00 |

SHEET
C-6.1

K:\SE\SE18.191.00 SECU - Wilmington South 17th Street Branch\Design\Plansets\Site Plan\SE18.191.00 C-6.0 UTILITY.dwg, 12/23/2020 8:20:41 AM, jscott




## VICINITY MAP

NOT TO SCALE

SANITARY SEWER:
- EXISTING FORCEMAIN — fm
- PROPOSED FORCEMAIN
- EXISTING GRAVITY SEWER — ss
- PROPOSED GRAVITY SEWER — SS
- EXISTING SEWER MANHOLE — ss
- PROPOSED SEWER MANHOLE — SS
- EXISTING CLEANOUT — co
- PROPOSED CLEANOUT
- EXISTING SEWER VALVE
- PROPOSED SEWER VALVE
- EXISTING SEWER AIR RELEASE VALVE — arv
- PROPOSED SEWER AIR RELEASE VALVE — ARV
- EXISTING FLOW METER — fm
- PROPOSED FLOW METER — FM

WATER:
- EXISTING WATER LINE — w
- PROPOSED WATER LINE — W
- EXISTING WATER REUSE LINE — w/r
- PROPOSED WATER REUSE LINE — W/R
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING WATER METER — wm
- PROPOSED WATER METER — WM
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING IRRIGATION CONTROL VALVE — icv
- PROPOSED IRRIGATION CONTROL VALVE — ICV
- EXISTING SPRINKLER HEAD
- PROPOSED SPRINKLER HEAD
- EXISTING BACKFLOW PREVENTER — bfp
- PROPOSED BACKFLOW PREVENTER — BFP
- EXISTING HOSE BIBB — hb
- PROPOSED HOSE BIBB — HB
- EXISTING YARD HYDRANT — yh
- PROPOSED YARD HYDRANT — YH
- EXISTING FIRE DEPARTMENT CONNECTION — fdc
- PROPOSED FIRE DEPARTMENT CONNECTION — FDC
- EXISTING FIRE DEPARTMENT CONNECTION VALVE — fdcv
- PROPOSED FIRE DEPARTMENT CONNECTION VALVE — FDCV

ELECTRIC:
- EXISTING UNDERGROUND ELECTRIC — uge
- PROPOSED UNDERGROUND ELECTRIC — UGE
- EXISTING OVERHEAD ELECTRIC — ohe
- PROPOSED OVERHEAD ELECTRIC — OHE
- EXISTING POWER POLE
- PROPOSED POWER POLE
- EXISTING GUY POLE
- PROPOSED GUY POLE
- EXISTING GUY WIRE
- PROPOSED GUY WIRE
- EXISTING LIGHT POLE
- EXISTING LIGHT POLE, REOCATED
- PROPOSED LIGHT POLE
- EXISTING TRANSFORMER — et
- PROPOSED TRANSFORMER
- EXISTING ELECTRIC METER — em
- PROPOSED ELECTRIC METER — EM

GAS:
- EXISTING GAS LINE — g
- PROPOSED GAS LINE — G
- EXISTING GAS MARKER — gm
- PROPOSED GAS MARKER — GM
- EXISTING GAS METER — gm
- PROPOSED GAS METER — GM
- EXISTING GAS VALVE
- PROPOSED GAS VALVE

COMMUNICATIONS:
- EXISTING FIBER OPTIC — fo
- PROPOSED FIBER OPTIC — FO
- EXISTING OVERHEAD TELEPHONE — oht
- PROPOSED OVERHEAD TELEPHONE — OHT
- EXISTING UNDERGROUND TELEPHONE — t
- PROPOSED UNDERGROUND TELEPHONE — T
- EXISTING OVERHEAD CABLE — ohc
- PROPOSED OVERHEAD CABLE — OHC
- EXISTING UNDERGROUND CABLE — c
- PROPOSED UNDERGROUND CABLE — C
- EXISTING TELEPHONE PEDESTAL — tp
- PROPOSED TELEPHONE PEDESTAL — TP
- EXISTING CABLE BOX — catv
- PROPOSED CABLE BOX — CATV
- EXISTING FIBER OPTIC MARKER — fm
- PROPOSED FIBER OPTIC MARKER — FM
- EXISTING TELEPHONE MANHOLE — t
- EXISTING FIBER OPTIC PEDESTAL — fp
- PROPOSED FIBER OPTIC PEDESTAL — FP

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole Dsmith | 1/30/20 |
| Traffic | [signature] | 1-30-20 |
| Fire | C. Wilson | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed: [signature]

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NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI Jan 23, 2020

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UTILITY PLAN

| PROJECT MANAGER | FIELD SURVEY DATE: |
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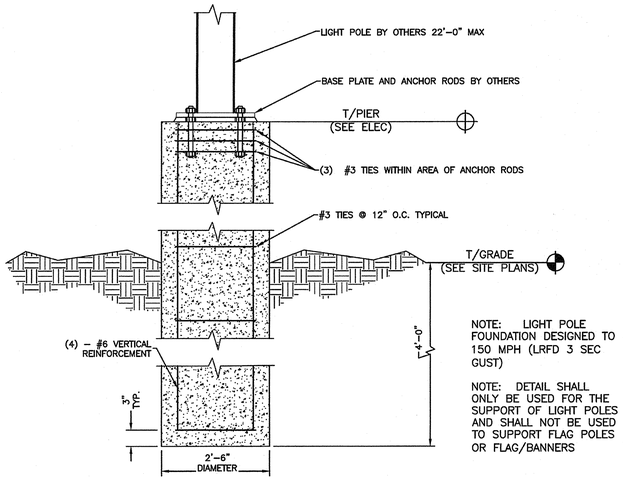
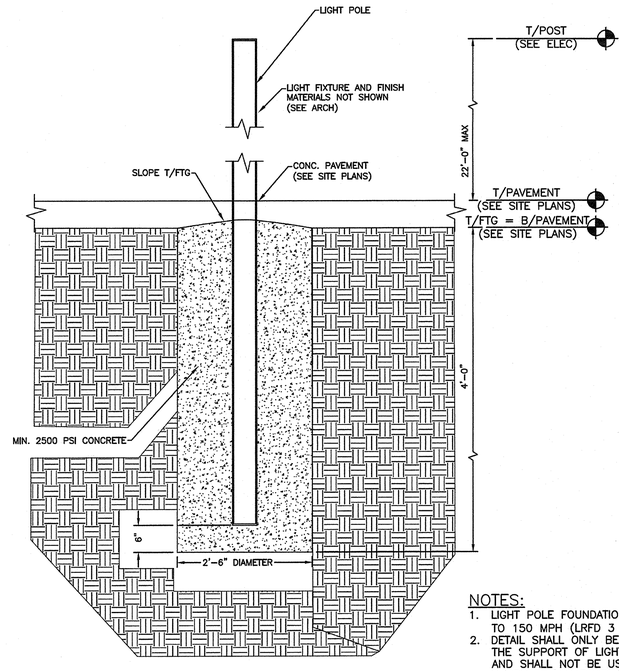
| DM | 12/03/2019 |
| DRAWN BY: | JOB #: |
| KD | SE18.191.00 |

SHEET
C-6.2




TYPICAL LIGHT POLE FOUNDATION (ALT A)

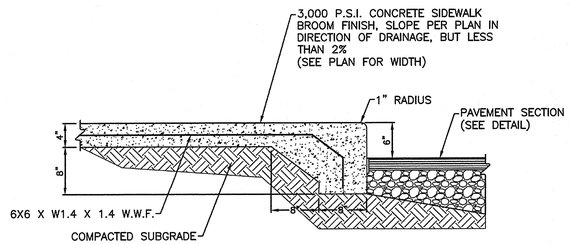
NOT TO SCALE




NOTES:
1. LIGHT POLE FOUNDATION DESIGNED TO 150 MPH (LRFD 3 SEC GUST)
2. DETAIL SHALL ONLY BE USED FOR THE SUPPORT OF LIGHT POLES AND SHALL NOT BE USED TO SUPPORT FLAG POLES OR FLAG/BANNERS

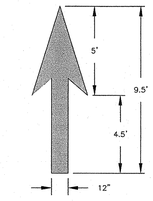
TYPICAL LIGHT POLE FOUNDATION (ALT B)

NOT TO SCALE

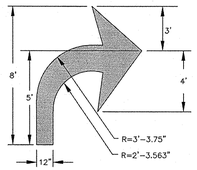



TURN-DOWN SIDEWALK DETAIL

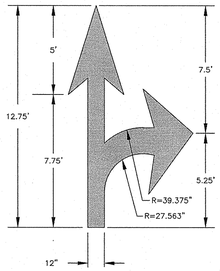
NOT TO SCALE




STRAIGHT ARROW




RIGHT OR LEFT TURN ARROW




COMBINATION STRAIGHT AND LEFT OR RIGHT TURN ARROW



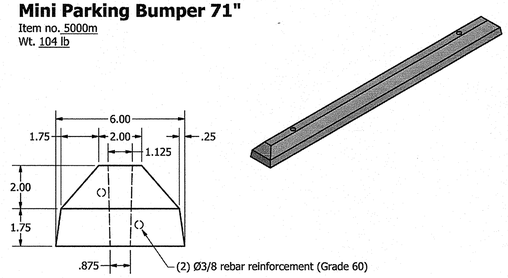

24" LETTERS AND NUMBERS
TYPICAL DIMENSIONS
4" SPACING BETWEEN LETTERS

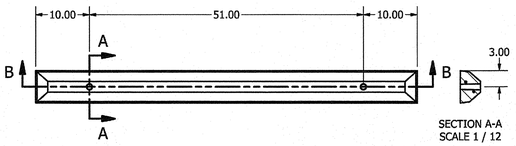
PAVEMENT MARKINGS
ARROW SYMBOLS
ON SECU PROPERTY

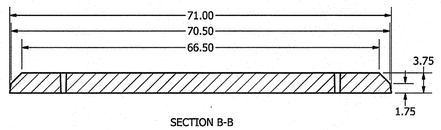
NOT TO SCALE

## Mini Parking Bumper 71"

Item no. 5000m
Wt. 104 lb

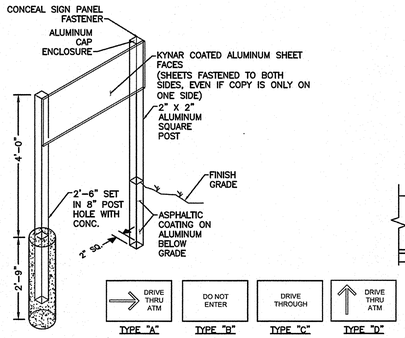


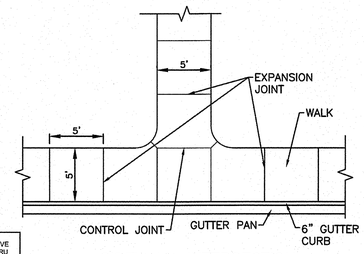

WHEEL STOP DETAIL

NOT TO SCALE



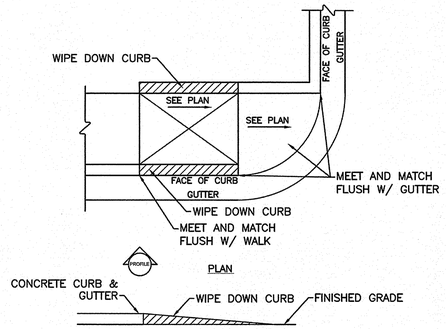

DIRECTIONAL SIGN DETAIL

NOT TO SCALE



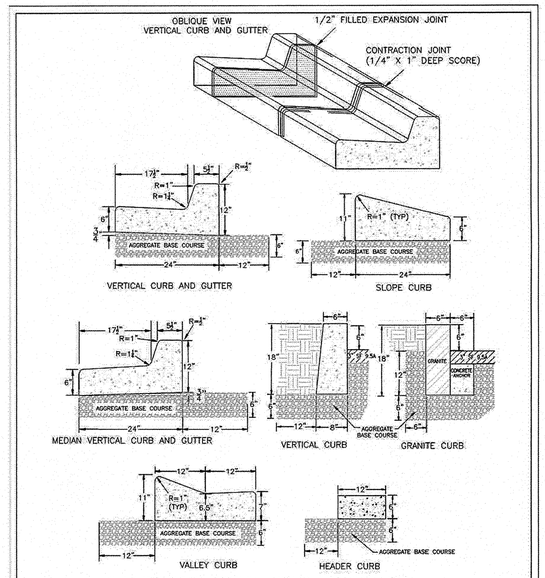

SIDEWALK INTERSECTION

NOT TO SCALE



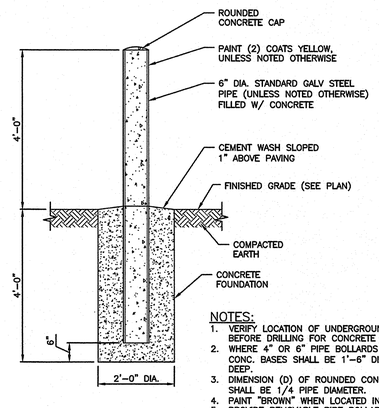

ACCESSIBLE RAMP SIDEWALK TERMINUS

NOT TO SCALE




NOTES:
1. EXPANSION JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS
2. 50' MAX EXPANSION JOINT SPACING, 10' MAX CONTRACTION JOINT SPACING
3. MINIMUM INSTALLATION LENGTH IS 5 FT.
4. CONCRETE TO BE 3000 PSI MIN
5. VERTICAL CURB AND GUTTER BASE CAN BE SLOPED 3/4" OR USE A FLAT BASE

| | | |
|---|---|---|
| DATE: AUGUST, 2011 | STANDARD DETAIL | CITY OF WILMINGTON NORTH CAROLINA |
| DRAWN: PB/JSR | CURBING | CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON N.C. 28402, (910) 341-7807 |
| CHECKED: DEC | | |
| SCALE: NOT TO SCALE | | SD 3-11 |

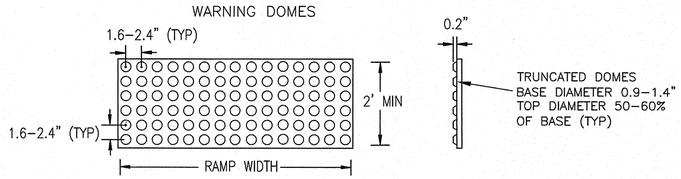



NOTES:
1. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE DRILLING FOR CONCRETE FOUNDATION.
2. WHERE 4" OR 6" PIPE BOLLARDS ARE SPECIFIED, CONC. BASES SHALL BE 1'-6" DIA. BY 3'-0" DEEP.
3. DIMENSION (D) OF ROUNDED CONCRETE CAP SHALL BE 1/4 PIPE DIAMETER.
4. PAINT "BROWN" WHEN LOCATED IN PLANTER.
5. PROVIDE REMOVABLE PIPE BOLLARDS AT EQUIPMENT ACCESS PANELS, AS REQUIRED.

EXTERIOR PIPE BOLLARD

NOT TO SCALE

WARNING DOMES




WARNING DOME NOTES:
1. USE CONTRASTING COLORS, RED OR BLACK ON WHITE PAVEMENT.
2. USE CAST IN PLACE PAVERS FOR NEW CONSTRUCTION.
3. RUBBER MATS ARE PERMITTED FOR RETROFITS.
4. LANDING AND RAMP WIDTH MAY BE REDUCED TO 3' WHERE SPACE IS LIMITED AND DESIGN IS APPROVED BY THE CITY ENGINEER.

WARNING DOMES (APPLICABLE PART FROM CoW 3-07)

NOT TO SCALE

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole D Smith | 1/30/20 |
| Traffic | | 1-30-20 |
| Fire | C. Wahr | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed:

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance

SEPI
1 GLENWOOD AVE. SUITE 600
RALEIGH, NC 27603
PHONE 919.789.9977
11020 DAVID TAYLOR DR., SUITE 115
CHARLOTTE, NC 28262
PHONE 704.714.4880
5030 NEW CENTRE DR., SUITE B
WILMINGTON, NC 28403
PHONE 910.523.5715
sepiinc.com

811 Know what's below. Call before you dig. 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

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NORTH CAROLINA PROFESSIONAL SEAL 29419 ENGINEER MARK T. ARCURI Jan 17, 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

ADDRESS:
119 N. SALISBURY STREET
RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

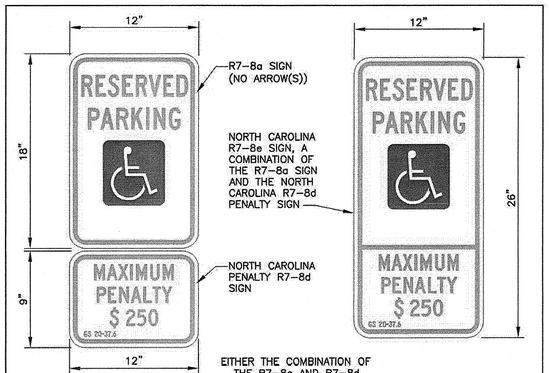
PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON S 17th STREET BRANCH

ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

SITE DETAILS

| | |
|---|---|
| PROJECT MANAGER: MTA | FIELD SURVEY DATE: 02/15/19 |
| CHECKED BY: DM | DRAWING DATE: 12/03/2019 |
| DRAWN BY: KD | JOB #: SE18.191.00 |

SHEET
C-7.1




R7-8a and R7-8d Signage
Figure A1.1

R7-8e Signage
Figure A1.2


WHERE VAN ACCESSIBLE PARKING IS PROVIDED, THE VAN ACCESSIBLE (R7-8P) SIGN SHALL BE MOUNTED BELOW THE OTHER ACCESSIBLE PARKING SIGNS. (2009 EDITION MUTCD SECTION 2B.47)

R7-8P Signage
Figure A1.3

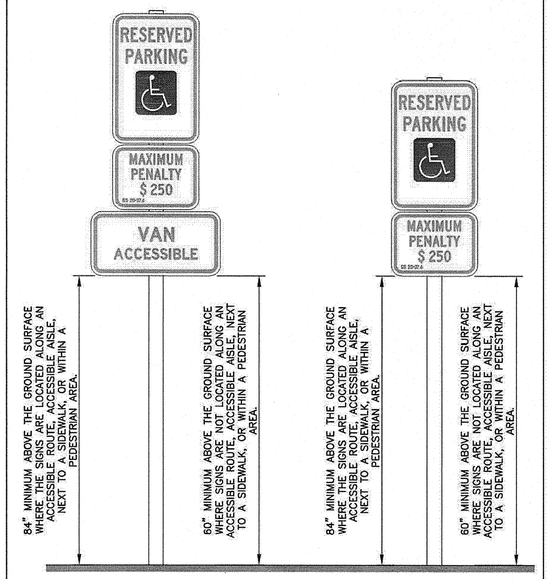
FOR DESIGN OF ACCESSIBLE SIGNS, SEE THE FOLLOWING:

- 2009 MUTCD OR LATEST EDITION.
- 2004 EDITION OF THE STANDARD HIGHWAY SIGNS AND THE 2012 SUPPLEMENT OR LATEST EDITION.
- NORTH CAROLINA 2009 SUPPLEMENT TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR LATEST EDITION
- NCDOT DRAWING H-1_S FOR SIGNS SP00075, SP00076, AND SP00077.

| | |
|---|---|
| DATE: | NOVEMBER 8, 2016 |
| DRAWN BY: | DALE THOMPSON |
| CHECKED BY: | RANDALL GLAZIER |
| SCALE: | NOT TO SCALE |

ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS
SHEET A1 OF 5

CITY OF WILMINGTON TRAFFIC ENGINEERING
P.O. Box 1810 • Wilmington, NC 28402 • (910) 341-7888

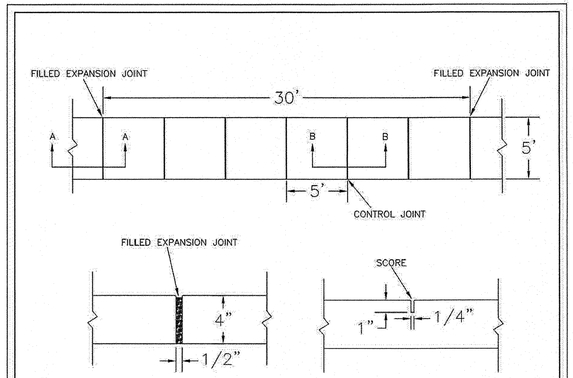



Signage Height
Figure A2.1

| | |
|---|---|
| DATE: | NOVEMBER 8, 2016 |
| DRAWN BY: | DALE THOMPSON |
| CHECKED BY: | RANDALL GLAZIER |
| SCALE: | NOT TO SCALE |

ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS
SHEET A2 OF 5

CITY OF WILMINGTON TRAFFIC ENGINEERING
P.O. Box 1810 • Wilmington, NC 28402 • (910) 341-7888




NOTES:

1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
2. SANITARY SEWER CLEAN–OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" – 3,000 PSI.
5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL
6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS
7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

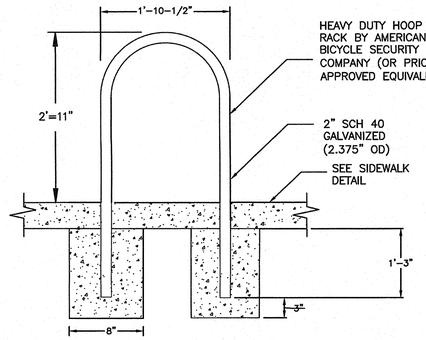
| | |
|---|---|
| DATE: | OCTOBER, 2010 |
| DRAWN: | PB/JSR |
| CHECKED: | DEC |
| SCALE | NOT TO SCALE |

STANDARD DETAIL

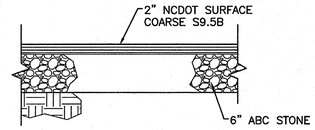
SIDEWALK

CITY OF WILMINGTON NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON N.C. 28402
(910) 341-7807

SD 3-10

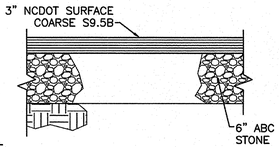



BIKE RACK DETAILS
NOT TO SCALE



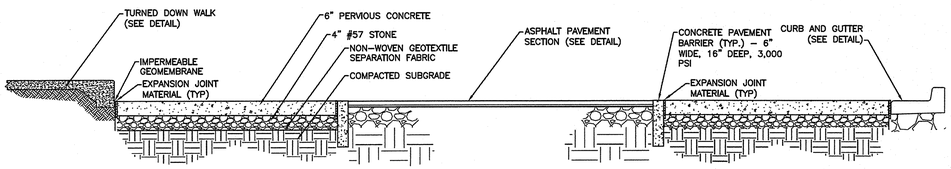

NOTE:
PAVEMENT SECTION MAY VARY DEPENDING UPON FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE W/ OWNER & ENGINEER IF FIELD CHANGES ARE NEEDED.

STANDARD ASPHALT PAVEMENT SECTION
NOT TO SCALE

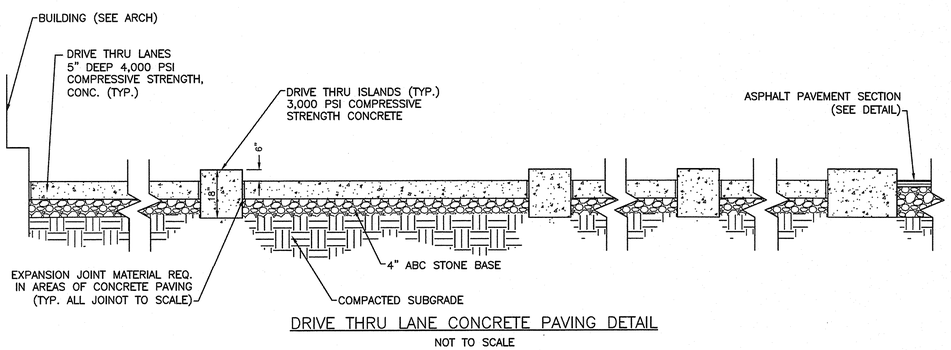



NOTE:
PAVEMENT SECTION MAY VARY DEPENDING UPON FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE W/ OWNER & ENGINEER IF FIELD CHANGES ARE NEEDED.

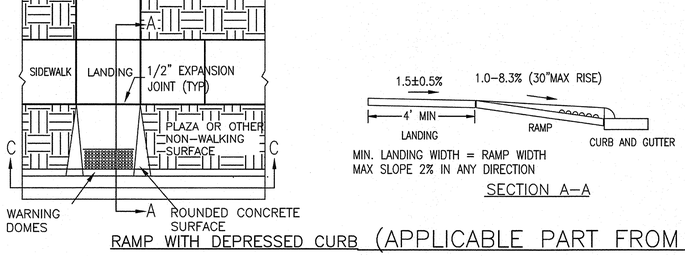
HEAVY DUTY ASPHALT PAVEMENT SECTION
NOT TO SCALE




PERVIOUS CONCRETE DETAIL
NOT TO SCALE



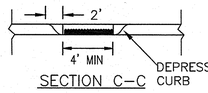

DRIVE THRU LANE CONCRETE PAVING DETAIL
NOT TO SCALE



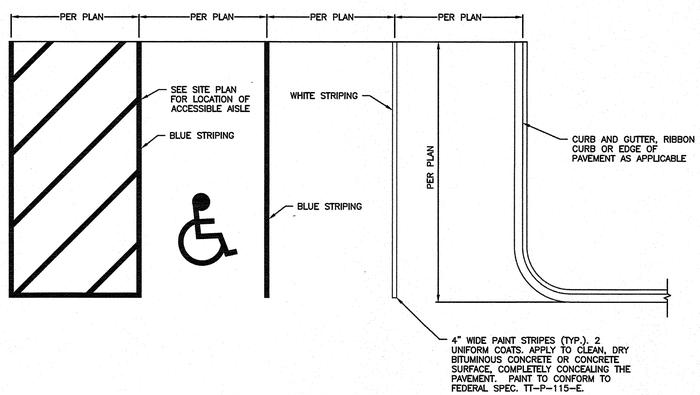

RAMP WITH DEPRESSED CURB (APPLICABLE PART FROM CoW 3–08)
NOT TO SCALE




SECTION A–A




SECTION C–C




PAINT STRIPE DETAIL
NOT TO SCALE

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole Dsmith | 1/30/20 |
| Traffic | | 1-30-20 |
| Fire | C. Wells | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed:

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SEPI
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CHARLOTTE, NC 28262
PHONE 704.714.4880
5030 NEW CENTRE DR., SUITE B
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NORTH CAROLINA PROFESSIONAL SEAL 22418 ENGINEER MARK T. ARCURI
SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.
Jan 29, 2020



OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

ADDRESS:
119 N. SALISBURY STREET
RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

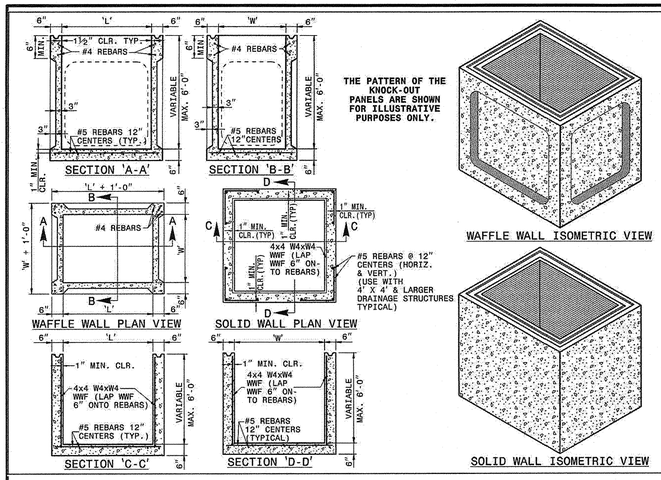
PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH

ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

SITE DETAILS

| | |
|---|---|
| PROJECT MANAGER: MTA | FIELD SURVEY DATE: 02/15/19 |
| CHECKED BY: DM | DRAWING DATE: 12/09/2019 |
| DRAWN BY: KD | JOB #: SE18.191.00 |

SHEET
C-7.2




STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

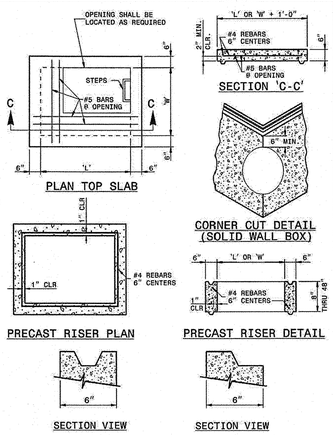
1-18

ROADWAY STANDARD DRAWING FOR
**PRECAST DRAINAGE STRUCTURE**
(SOLID AND WAFFLE WALL)

SHEET 1 OF 2
**840.45**

GENERAL NOTES:

* THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.01, 840.02, 840.04, 840.05, 840.13, 840.14, 840.15, 840.17, 840.18, 840.19, 840.26, 840.27, 840.28, 840.31, 840.32 AND 840.41.
* INSTALL PRECAST DRAINAGE STRUCTURES AND PAY FOR IN ACCORDANCE WITH SPECIFICATION SECTION 840.
* DO NOT PLACE PRECAST DRAINAGE STRUCTURES UNDER TRAFFIC OR WHERE TRAFFIC WILL BE DETOURED.
* USE 4000 PSI CONCRETE.
* PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A1064.
* LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE TO 10'-0"; LIMIT SOLID WALL STRUCTURE TO 15'-0".
* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
* CUT OR FORM OPENINGS FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. PIPES MAY ENTER THROUGH THE CORNERS OF SOLID WALL BOXES IF A MINIMUM OF 6" OF WALL IS PROVIDED ABOVE THE HOLE.
* ALL ELEMENTS PRECAST TO MEET ASTM C913.
* FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
* PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS AS DIRECTED BY THE ENGINEER.
* WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
* SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-198, TYPE B - BUTYL RUBBER.
* LIMIT MAXIMUM STRUCTURE SIZE TO INSIDE CLEAR DIMENSIONS OF 5'-0" X 5'-0".
* THE OUTSIDE PIPE DIAMETER PLUS 2" OR THE OPENING REQUIRED FOR FRAME AND GRATE IS THE MINIMUM STRUCTURE SIZE WHICHEVER IS GREATER.
* USE MANHOLE FRAME AND COVER AS INDICATED ON THE PLANS. REINFORCE OPENING AS SHOWN ON THIS SHEET.




STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR
**PRECAST DRAINAGE STRUCTURE**
(GENERAL NOTES AND DETAILS)

SHEET 2 OF 2
**840.45**

**STRUCTURES**

1. PRECAST STRUCTURES SHALL MEET NC DOT 840.45 OR PRIOR APPROVED EQUIVALENT.
2. BRICK BUILT CATCH BASINS CAN ALTERNATIVELY BE USED, AND SHALL MEET NC DOT 840.01, OR PRIOR APPROVED EQUIVALENT.
3. CONCRETE CATCH BASINS CAN ALTERNATIVELY BE USED, AND SHALL MEET NC DOT 840.02, OR PRIOR APPROVED EQUIVALENT.
4. CONCRETE DROP INLETS CAN ALTERNATIVELY BE USED, AND SHALL MEET NC DOT 840.14, OR PRIOR APPROVED EQUIVALENT.
5. BRICK BUILT DROP INLETS CAN ALTERNATIVELY BE USED, AND SHALL MEET NC DOT 840.15, OR PRIOR APPROVED EQUIVALENT.

**CASTINGS**

1. CATCH BASIN CASTINGS SHALL BE NC DOT 840.03, OR PRIOR APPROVED EQUIVALENT .
2. DROP INLET CASTINGS SHALL BE NC DOT 840.16, OR PRIOR APPROVED EQUIVALENT .
3. STORM DRAIN MANHOLE CASTINGS SHALL BE NC DOT 840.54, OR PRIOR APPROVED EQUIVALENT .

**OTHER**

1. ORIENTATION OF STORM DRAIN INLETS ON PLAN ARE FOR THE GRATE AND/OR CASTINGS. MINIMUM STRUCTURE SIZE IS 2' X 2' PLAN DIMENSION. CONTRACTOR SHALL PROVIDE BOXES LARGER THAN MINIMUM SIZE, ORIENT THE BOX/STRUCTURE, AND/OR PROVIDE TRANSITION TOPS AS NECESSARY TO ACCEPT THE PIPE SIZES AND TO ACHIEVE THE PIPE ALIGNMENT TO SCALE AS SHOWN ON THE PLAN. PIPES SHALL NOT CONNECT AT BOX CORNERS WITHOUT PRIOR APPROVAL FROM THE ENGINEER. SUMPS SHALL BE ZERO INCHES UNLESS OTHERWISE SHOWN. THERE SHALL BE NO MAN STEPS UNLESS OTHERWISE SHOWN.
2. GROUT BOTTOM OF STRUCTURES TO FORM BOWL-SHAPED INVERT WITH CONTINUOUS POSITIVE SLOPE FROM ALL INLET PIPES TO OUTLET PIPE.


SEPI

1 GLENWOOD AVE, SUITE 600
RALEIGH, NC 27603
PHONE 919.789.9977

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CHARLOTTE, NC 28262
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WILMINGTON, NC 28403
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sepiinc.com


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NORTH CAROLINA PROFESSIONAL SEAL 23419 ENGINEER MARK T. ARCURI — Jan 21, 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.

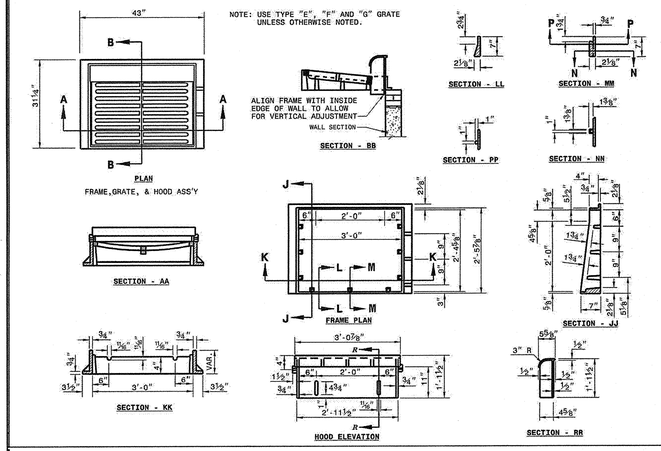


STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR
**DROP INLET FRAME AND GRATES**
FOR USE WITH STD. DWG.S 840.14 AND 840.15

SHEET 1 OF 1
**840.16**

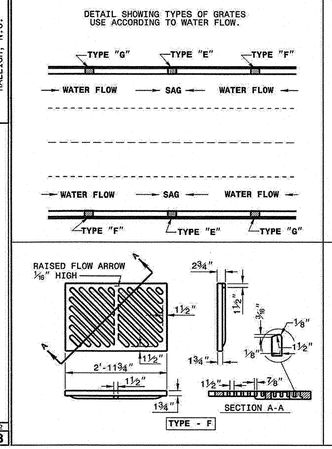



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

ROADWAY STANDARD DRAWING FOR
**FRAME, GRATES, AND HOOD**
FOR USE ON STANDARD CATCH BASIN

SHEET 1 OF 2
**840.03**

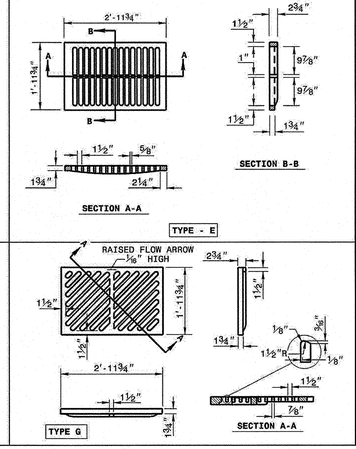


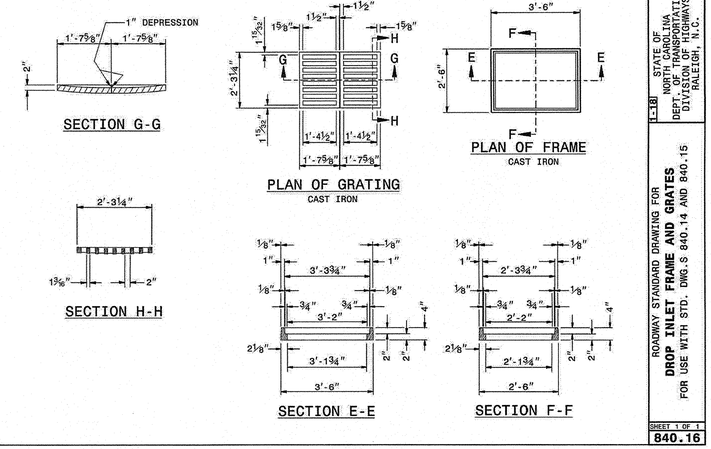

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

1-18

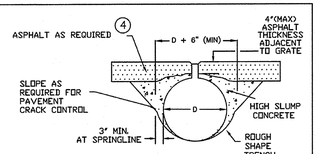
ROADWAY STANDARD DRAWING FOR
**FRAME, GRATES, AND HOOD**
FOR USE ON STANDARD CATCH BASIN

SHEET 2 OF 2
**840.03**




CMP-VII-6




## 6" AND DEEPER GRATES ASPHALT PAVEMENT

REQUIREMENTS:

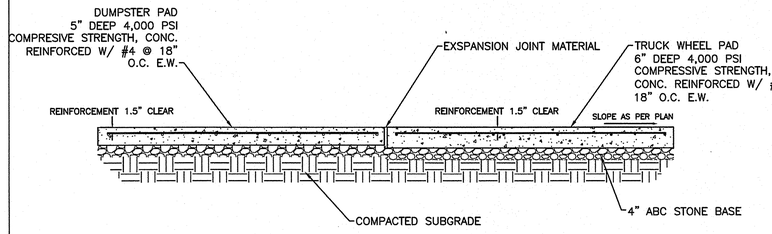
1. EITHER 2-1/2' OR 6' DEEP GRATING IS ACCEPTABLE FOR STANDARD HIGHWAY (H10 THROUGH H25) LOADS USING THE GAGES IN TABLE 1, SEE DRAWING NO. 1009776. HIGH SLUMP CONCRETE BACKFILL IS REQUIRED, WITH THE ENVELOPE EXTENDING A MINIMUM OF 3 INCHES BEYOND THE SPRINGLINE, AS SHOWN ABOVE. THE HIGH SLUMP CONCRETE MUST PROVIDE A MINIMUM 750 psi COMPRESSIVE STRENGTH.
2. FOR INSTALLATIONS SUBJECTED TO OCCASIONAL LIGHT VEHICLE (LESS THAN H10) LOADS, SELECT GRANULAR BACKFILL MAY BE USED. HOWEVER, THE DRAIN MUST BE SET IN A TRENCH WIDE ENOUGH TO PROPERLY HAUNCH THE PIPE (TYPICALLY D + 36"). THE GRANULAR BACKFILL MUST BE A CLEAN, NON-PLASTIC, WELL GRADED MATERIAL, COMPACTED TO 95% STANDARD PROCTOR DENSITY.
3. DURING INSTALLATION, RECESS THE TOP OF THE GRATE 1/4" BELOW THE FINISHED GRADE OF THE PAVEMENT.
4. PAVEMENT AS REQUIRED ELSEWHERE IN THE PROJECT. IF CONCRETE PAVEMENT ELSEWHERE IS REINFORCED, CONTINUE THIS SAME REINFORCMENT INTO THE SLOTTED DRAIN ZONE. MINIMUM STEEL REINFORCEMENT AS REQUIRED TO MINIMIZE TEMPERATURE CRACKING OF THE CONCRETE IS RECOMMENDED IN THE SLOTTED DRAIN ZONE.
5. HEAVIER WHEEL LOADS DICTATE THE USE OF A MINIMUM 6' DEEP GRATING AND TYPICALLY A LARGER HIGH SLUMP CONCRETE EMBEDMENT ZONE. (SEE DRAWING 1008136)

CONTECH® CONSTRUCTION PRODUCTS INC.

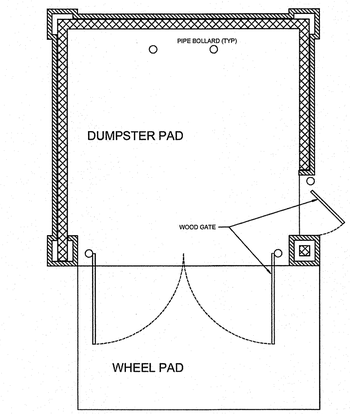


SLOTTED DRAIN INSTALLATION
HIGHWAY WHEEL LOADINGS

| DRAWN BY: F.B. | REV. BY: JWK | SCALE: N/A |
|---|---|---|
| DATE: 3-20-92 | DATE: 05/23/01 | 1008607D |




DUMPSTER AND WHEEL PAD DETAIL
NOT TO SCALE




DUMPSTER SLAB PLAN

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole D Smith | 1/30/20 |
| Traffic | W Smith | 1-30-20 |
| Fire | C. Wick | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 200003
Signed:

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance

OWNER/DEVELOPER/APPLICANT
**STATE EMPLOYEES' CREDIT UNION**

ADDRESS:
119 N. SALISBURY STREET
RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

PROJECT
**STATE EMPLOYEES' CREDIT UNION - WILMINGTON S 17th STREET BRANCH**

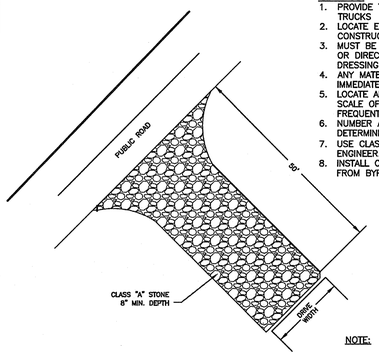
ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

**STORM STRUCTURE DETAILS**

| PROJECT MANAGER | FIELD SURVEY DATE: |
|---|---|
| MTA | 02/15/19 |
| CHECKED BY: | DRAWING DATE: |
| DM | 12/03/2019 |
| DRAWN BY: | JOB #: |
| KD | SE18.191.00 |

SHEET
**C-7.3**

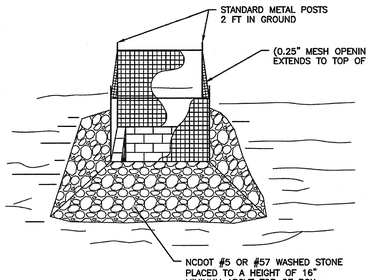
K:\2018\SE18.191.00 SECU - Wilmington South 17th Street Branch\Design\Details\Standard Details.dwg, 1/29/2020 2:18:15 PM, jwatt




NOTES:
1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS
2. LOCATE ENTRANCES TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO THE STREETS. PERIODIC TOP DRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. LOCATE ALL GRAVEL CONSTRUCTION ENTRANCES AT ALL POINOT TO SCALE OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. PROVIDE FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER.
7. USE CLASS "A" STONE OR OTHER AGGREGATE APPROVED BY THE ENGINEER.
8. INSTALL CONSTRUCTION ENTRANCES IN A WAY TO PREVENT VEHICLES FROM BYPASSING CONSTRUCTION ENTRANCE LEAVING PROJECT SITE.

NOTE: PLACE FILTRATION GEOTEXTILE BENEATH STONE

## GRAVEL CONSTRUCTION ENTRANCE
NOT TO SCALE

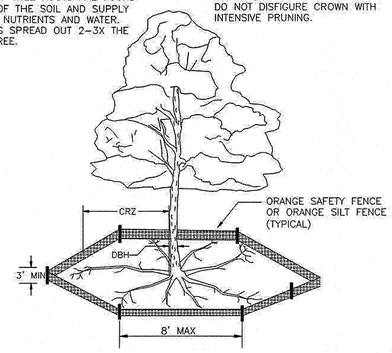



NOTES:
1. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
2. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 1-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
3. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A MIN HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.

## STANDARD INLET PROTECTION
NOT TO SCALE

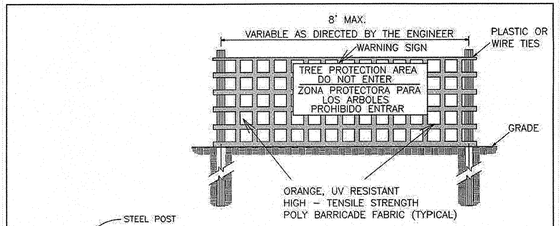
NOTE:
THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.

NOTE:
CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.

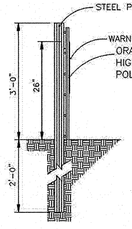



NOTES:
1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATTS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF $500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

| | STANDARD DETAIL | |
|---|---|---|
| DATE: JAN, 2015 | TREE PROTECTION DURING CONSTRUCTION SHEET 1 of 2 | CITY OF WILMINGTON NORTH CAROLINA<br>CITY OF WILMINGTON ENGINEERING<br>PO BOX 1810<br>WILMINGTON, NC 28402<br>(910) 341-7807 |
| DRAWN BY JSR | | |
| CHECKED BY RDG, P.E. | | |
| SCALE NOT TO SCALE | | SD 15-09 |




FRONT VIEW

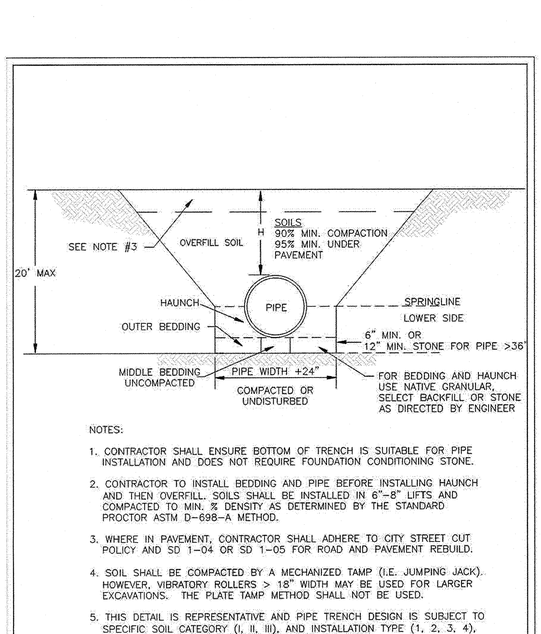



SIDE VIEW


WARNING SIGN DETAIL

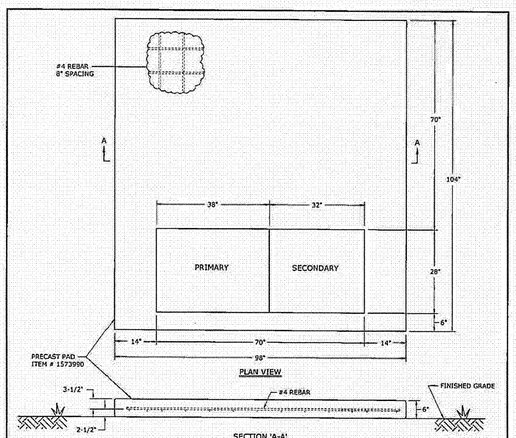
NOTES:
1. THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

| | STANDARD DETAIL | |
|---|---|---|
| DATE: JAN, 2015 | TREE PROTECTION DURING CONSTRUCTION SHEET 2 of 2 | CITY OF WILMINGTON NORTH CAROLINA<br>CITY OF WILMINGTON ENGINEERING<br>PO BOX 1810<br>WILMINGTON, NC 28402<br>(910) 341-7807 |
| DRAWN BY JSR | | |
| CHECKED BY RDG, P.E. | | |
| SCALE NOT TO SCALE | | SD 15-09 |




NOTES:
1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR PIPE INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
2. CONTRACTOR TO INSTALL BEDDING AND PIPE BEFORE INSTALLING HAUNCH AND THEN OVERFILL. SOILS SHALL BE INSTALLED IN 6"–8" LIFTS AND COMPACTED TO MIN. % DENSITY AS DETERMINED BY THE STANDARD PROCTOR ASTM D-698-A METHOD.
3. WHERE IN PAVEMENT, CONTRACTOR SHALL ADHERE TO CITY STREET CUT POLICY AND SD 1-04 OR SD 1-05 FOR ROAD AND PAVEMENT REBUILD.
4. SOIL SHALL BE COMPACTED BY A MECHANIZED TAMP (I.E. JUMPING JACK). HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
5. THIS DETAIL IS REPRESENTATIVE AND PIPE TRENCH DESIGN IS SUBJECT TO SPECIFIC SOIL CATEGORY (I, II, III), AND INSTALLATION TYPE (1, 2, 3, 4), AS DIRECTED BY THE ENGINEER AND SITE CONDITIONS.

| | STANDARD DETAIL | |
|---|---|---|
| DATE: MAY, 2013 | PIPE TRENCH TYPICAL | CITY OF WILMINGTON NORTH CAROLINA<br>CITY OF WILMINGTON<br>ENGINEERING OFFICE<br>212 OPERATIONS CENTER DRIVE<br>WILMINGTON N.C. 28412<br>(910) 341-7807 |
| DRAWN: JSR | | |
| CHECKED: BDR, P.E. | | |
| SCALE: NOT TO SCALE | | SD 1-07 |




SECTION 'A-A'

NOTES:
1. THIS STANDARD APPLIES TO THE DEP REGION, AND THE COASTAL AREAS IN THE DEP REGION.
2. THE COMPANY RESERVES THE RIGHT TO REFUSE SERVICE TO NEW INSTALLATIONS THAT DO NOT MEET DUKE ENERGY REQUIREMENTS.
3. REFERENCE DWG. 24.01-102 TO DETERMINE IF CURBING AND ABSORPTION BED IS REQUIRED.
4. PROTECTIVE POLES ARE REQUIRED WHEN TRANSFORMERS ARE EXPOSED TO VEHICLE TRAFFIC. SEE DWG. 36.01-105 FOR PROTECTIVE POLE DETAILS.
5. THERE SHALL BE MINIMUM CLEARANCES OF 10' IN FRONT OF THE TRANSFORMER AND 3' ON ALL OTHER SIDES OF THE TRANSFORMER. SEE DWGS. 36.01-101 AND 36.01-103 FOR MORE DETAILS ON CLEARANCES.
6. TRANSFORMER MUST BE LOCATED IN AN AREA THAT ALLOWS SAFE ACCESS BY DUKE ENERGY CONSTRUCTION AND MAINTENANCE EQUIPMENT IN WET OR DRY WEATHER.
7. CONSIDER FROST ACTION, DRAINAGE, AND LOCAL SOIL CONDITIONS WHEN PREPARING SITE FOR PAD. SOIL UNDERNEATH PADS SHALL BE LEVELED AND COMPACTED. SOIL SHALL ALSO BE FREE OF ROOTS AND OTHER ORGANIC MATERIALS TO PREVENT SETTLING AND EROSION. SOD MAY BE REQUIRED AROUND PAD TO PREVENT SOIL EROSION.
8. USE FIRE ANT CONTROL IN PAD OPENINGS.
9. ALL CONDUITS SHALL BE CUT SO THAT THE TOP OF THE CONDUIT IS FLUSH WITH THE TOP OF THE PAD.
10. CUSTOMER SHALL INSTALL THE CONDUIT FOR THE PRIMARY CONDUCTORS AS CLOSE TO THE CENTER OF THE PRIMARY AREA AS PRACTICAL. THE SECONDARY CONDUITS SHALL BE INSTALLED TO THE RIGHT INSIDE THE SECONDARY AREA. SEE SERVICE GUIDE FOR PAD INSTALLATION DETAILS AND SPECIFICATIONS.
11. OTHER UTILITIES SHALL NOT BE INSTALLED UNDER TRANSFORMER PAD. SEE SECTION 36 FOR MINIMUM CABLE CLEARANCES.
12. SEE SECTION 27 OF THIS MANUAL FOR GROUND ROD AND GROUND BUS DETAILS.

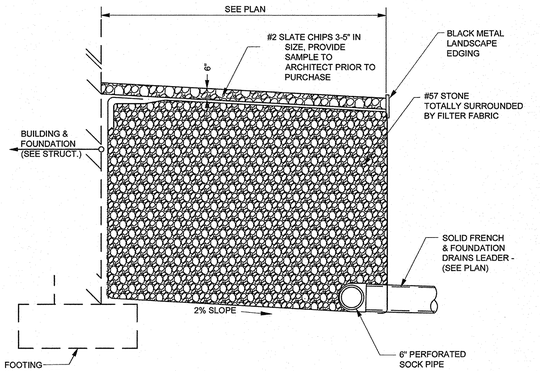
| REVISED | BY | CHK'D | APPR. |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |
| 0 | 5/31/18 | KJ/DMH | SAMS |

FLAT PADS FOR THREE-PHASE PAD-MOUNTED TRANSFORMERS 500 KVA- 5000 KVA

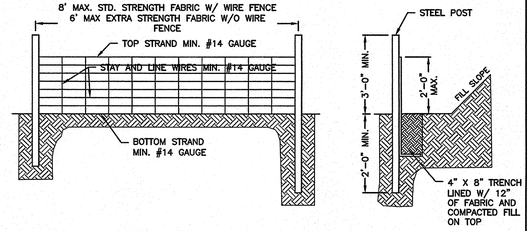
DUKE ENERGY.

| DEC | DEM | DEP | DEF |
|---|---|---|---|
| | | X | X |

24.01-118

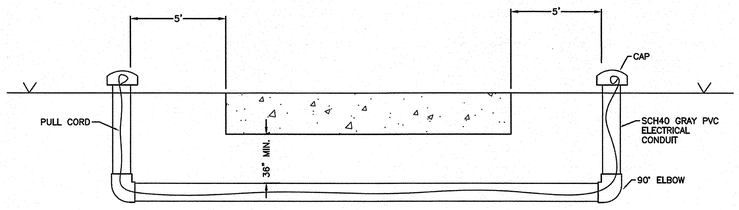



**FRENCH DRAIN DETAIL**
NOT TO SCALE




NOTES:
1. WIRE FENCE (IF USED) SHALL BE MINIMUM 14 GAUGE WITH A MAXIMUM MESH OPENING OF 6-INCHES.
2. SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFIN'S OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461 AND ALSO SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS ACCORDING TO ASTM D 4355.
3. SEE THE NC EROSION CONTROL MANUAL FOR SPECIFICATIONS INSTALLING SEDIMENT FENCE USING THE SLICING METHOD MACHINERY.

## TEMPORARY SILT FENCE
NOT TO SCALE




## ELECTRICAL CONDUIT FOR DUKE ENERGY
NOT TO SCALE

| Approved Construction Plan | Name | Date |
|---|---|---|
| Planning | Nicole Dysmith | 1/30/20 |
| Traffic | W Gorman | 1-30-20 |
| Fire | C Vick | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed:

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance


SEPI
1 GLENWOOD AVE, SUITE 600
RALEIGH, NC 27603
PHONE 919.789.9977
11020 DAVID TAYLOR DR., SUITE 115
CHARLOTTE, NC 28262
PHONE 704.714.4880
5030 NEW CENTRE DR., SUITE B
WILMINGTON, NC 28403
PHONE 910.523.5715
sepiinc.com


811 Know what's below. Call before you dig. 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI Jan 29, 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION
ADDRESS: 119 N. SALISBURY STREET RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH
ADDRESS: 4355 S 17TH STREET WILMINGTON NC 28412

EROSION CONTROL, GRADING, AND STORMWATER DETAILS

| PROJECT MANAGER | FIELD SURVEY DATE: |
|---|---|
| MTA | 02/15/19 |
| CHECKED BY: DM | DRAWING DATE: 12/03/2019 |
| DRAWN BY: KD | JOB #: SE18.191.00 |

SHEET
C-7.4

## CONSTRUCTION SEQUENCE

1. INSTALL TREE PROTECTION FENCING.
2. REQUEST PRE-CONSTRUCTION MEETING WITH NEW HANOVER COUNTY EROSION INSPECTOR.
3. INSTALL GRAVEL CONSTRUCTION ENTRANCE, SILT FENCE, AND SEDIMENT BASIN, ETC., AS SHOWN ON TEMPORARY EROSION CONTROL, GRADING, AND STORMWATER PLAN.
3. BEGIN CLEARING OPERATIONS.
4. INSTALL INITIAL PORTION OF STORM DRAIN LINES AND INLET PROTECTION. INSTALL INLET PROTECTION IMMEDIATELY AFTER EACH STORM STRUCTURE TO MINIMIZE SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
5. SLOPE THE GROUND AND EXCAVATE GENTLE SWALES AS NECESSARY TO DIRECT RUNOFF TO THE CORRESPONDING SEDIMENT BASIN. THE DRAINAGE AREAS FOR EACH SEDIMENT BASIN ARE SHOWN ON THE TEMPORARY EROSION CONTROL, GRADING, AND STORMWATER PLAN.
6. COMMENCE GRADING OPERATIONS.
7. STABILIZE ALL DISTURBED AREAS AS SOON AS FINAL GRADES ARE ESTABLISHED.
8. INSTALL ALL SITE WORK THAT CAN BE INSTALLED WITH TEMPORARY RISERS AND SEDIMENT BASINS IN PLACE.
9. REMOVE TEMPORARY RISERS AND FILL SEDIMENT BASINS.
10. INSTALL REMAINDER OF SITE WORK.
11. REMOVE TEMPORARY CONTROL DEVICES (SILT FENCE, GRAVEL ENTRANCE, ETC.) ONCE PERMANENT VEGETATIVE COVER IS ESTABLISHED.
12. ONCE FINAL CERTIFICATE OF OCCUPANCY AND CITY LANDSCAPE ZONING APPROVAL ARE ISSUED, REMOVE TREE PROTECTION FENCING.

## GRADING NOTES

1. INITIATE CONSTRUCTION SEQUENCE BEFORE BEGINNING CLEARING AND GRADING OPERATIONS.
2. CLEAR AREAS TO BE GRADED OF ALL VEGETATION. PROTECT VEGETATION BEYOND GRADING LIMITS.
3. STRIP TOPSOIL TO FULL AREAS TO BE GRADED AND STOCKPILE OR REMOVE FROM SITE.
4. COMPACT ALL FILL AREAS TO 95% OF MAXIMUM DENSITY.
5. ALL BANKS AND SWALE SIDE SLOPES SHALL BE GRADED NO STEEPER THAN 3:1 SLOPES.
6. PROPOSED SPOT ELEVATIONS ARE SHOWN AT FINISHED GRADE.
7. OPERATOR SHALL VERIFY EXISTING TOPOGRAPHY IN RELATION TO THE PROPOSED GRADES TO ENSURE DRAINAGE IN THE DIRECTIONS INDICATED ON THE PLAN.

## EROSION CONTROL

1. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION AND IS SUBJECT TO A FINE.
2. ADDITIONAL DEVICES MAY BE REQUIRED AS AGREED UPON BY THE FIELD INSPECTOR, ENGINEER, AND OWNER.

## BASIN BAFFLES MAINTENANCE PLAN

1. INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. BE SURE TO MAINTAIN ACCESS TO BAFFLES. SHOULD FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT, AND REPLACE IF DAMAGED DURING CLEANOUT OPERATIONS. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.
4. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT.

## BASIN SKIMMER MAINTENANCE PLAN

1. INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EVERY SIGNIFICANT (ONE HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF HEIGHT THE HEIGHT OF THE FIRST BAFFLE. PULL DOWN THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOSE NOT HOLD DOWN THE SKIMMER.
2. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE THE FLOW. IF THIS DOSE NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER AND SEE IF IT IS CLOGGED: IF SO REMOVE THE DEBRIS.
3. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.
4. CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS AND OUTLET FOR EROSION DAMAGE AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.
5. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

## GENERAL EROSION CONTROL MAINTENANCE PLAN

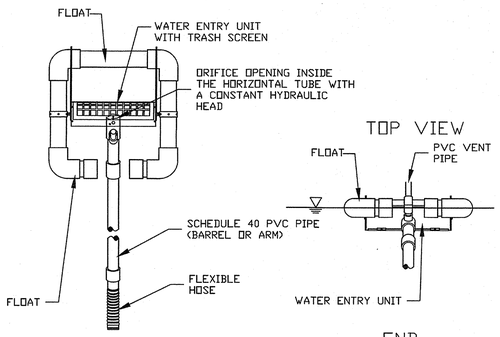
1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE AND INLET PROTECTION FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
3. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE, VEGETATIVE COVER.
4. CONSTRUCTION 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 8" MIN. DEPTH.

## SITE NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH FIELD CONSTRUCTION CONDITIONS.
2. BORROW MATERIAL: ALL BORROWED MATERIAL MUST COME FROM A LEGALLY OPERATED MINE OR OTHER SOURCE APPROVED BY THE STATE.
3. CLEARED, GRUBBED, STRIPPED, OR EXCAVATED SPOIL SHALL BE REMOVED FROM THE SITE OR USED IN LANDSCAPED ISLANDS.

## SEDIMENT BASIN NOTES:

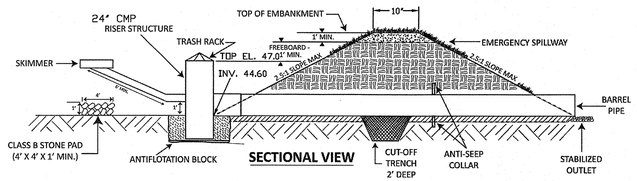
1. INSPECT TEMPORARY SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2" OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. PLACE REMOVED SEDIMENT IN AN AREA WITH SEDIMENT CONTROLS.
2. CHECK THE SEDIMENT BASIN EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.
3. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2" OR GREATER) RAINFALL EVENT. CLEAR THE MESH 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. INLET PROTECTION SHOULD BE CLEANED WHEN IT IS HALF FULL.




GENERAL NOTES:

1. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
2. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
3. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
4. SKIMMER SHALL BE CONNECTED TO THE PERMANENT LOW FLOW CONTROL PIPE.
5. BASIN OUTLET STRUCTURES MUST BE ON SITE BEFORE GRADING OPERATIONS BEGIN.
6. EXCEPT DURING EXTREME STORM EVENTS WHEN WATER WILL FLOW OVER THE EMERGENCY WEIR, ONLY OUTLET FROM THE SEDIMENT BASIN (PRIOR TO FULL SITE STABILIZATION) SHALL BE THE SKIMMER. NO WATER SHALL LEAVE SEDIMENT BASIN IN ANY OTHER MANNER DURING NORMAL RAIN EVENTS.

| | BASIN 1 | BASIN 2 |
|---|---|---|
| SKIMMER SIZE (IN.) | 1.5 | 1.5 |
| SKIMMER ORIFICE DIAMETER (IN.) | 1.2 | 0.4 |
| NO. OF DAYS TO DRAIN | 3.0 | 3.0 |
| VENDOR | FAIRCLOTH | |




NOTES
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. INSTALL A MINIMUM OF 3 COIR FIBER BAFFLES IN ACCORDANCE WITH PRACTICE STANDARD 6.65.
3. INSTALL SKIMMER AND COUPLING TO RISER STRUCTURE OR DIRECTLY INTO EMBANKMENT 1 FT. FROM BOTTOM OF BASIN.
4. THE ARM PIPE SHALL HAVE A MINIMUM LENGTH OF 6 FT. BETWEEN THE SKIMMER AND COUPLING.

NOT TO SCALE

FAIRCLOTH SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE
NOT TO SCALE

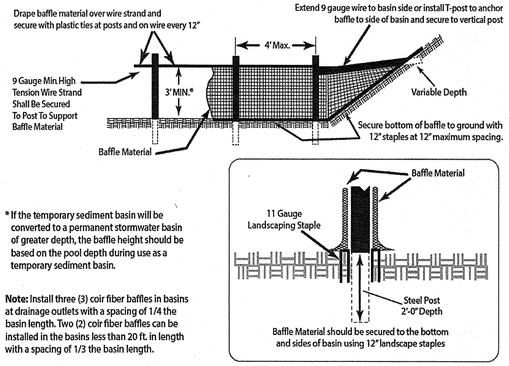



**Figure 6.65b Coir Fiber Baffle Detail**
**Cross section of a porous baffle in a sediment basin.**

**GROUND STABILAZATION REQUIREMENT**

| SITE AREA DESCRIPTION | STABILIZATION | TIMEFRAME EXCEPTIONS |
|---|---|---|
| PERIMETER DIKES, SWALES, 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 & ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED |
| SLOPES 3:1 OR FLATTER | 14 DAYS | 7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS | NONE EXCEPT FOR PERIMETER AND HQW ZONES |

## TEMPORARY SEEDING SPECIFICATIONS

**LATE WINTER AND EARLY SPRING**
**(FROM NC EROSION & SEDIMENT CONTROL DESIGN MANUAL - TABLE 6.10A)**

SEEDING MIXTURE

| SPECIES | RATE (LB/ACRE) | (LB/1000 FT²) |
|---|---|---|
| RYE (GRAIN) | 120 | 2.75 |
| ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS) | 50 | 1.15 |

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

SEEDING DATES
MOUNTAINS ------- ABOVE 2500 FEET: FEB. 15 - MAY 15 BELOW 2500 FEET: FEB. 1- MAY 1
PIEDMONT ------- JAN. 1 - MAY 1
COASTAL PLAIN --- DEC. 1 - APR. 15

SOIL AMENDMENOT TO SCALE
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 2,000 LB/ACRE (45.9 LB/1000 SQ FT) GROUND AGRICULTURAL LIMESTONE (USE THE LOWER RATE ON SANDY SOILS) AND 750 LB/ACRE (17.2 LB/1000 SQ FT) 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE (91.83 LB/1000 SQ FT) STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

**SUMMER**
**(FROM NC EROSION & SEDIMENT CONTROL DESIGN MANUAL - TABLE 6.10B)**

SEEDING MIXTURE

| SPECIES | RATE (LB/ACRE) | (LB/1000 FT²) |
|---|---|---|
| GERMAN MILLET | 40 | 0.92 |

IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE.

SEEDING DATES
MOUNTAINS ------- MAY 15 - AUG. 15
PIEDMONT ------- MAY 1 - AUG. 15
COASTAL PLAIN --- APR. 15 - AUG. 15

SOIL AMENDMENOT TO SCALE
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE (45.9 LB/1000 SQ FT) GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE (17.2 LB/1000 SQ FT) 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE (91.83 LB/1000 SQ FT) STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

**FALL**
**(FROM NC EROSION & SEDIMENT CONTROL DESIGN MANUAL - TABLE 6.10C)**

SEEDING MIXTURE

| SPECIES | RATE (LB/ACRE) | (LB/1000 FT²) |
|---|---|---|
| RYE (GRAIN) | 120 | 2.75 |

SEEDING DATES
MOUNTAINS ------- AUG. 15 - DEC. 15
PIEDMONT ------- AUG. 15 - DEC. 30

SOIL AMENDMENOT TO SCALE
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE (45.9 LB/1000 SQ FT) GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE (17.2 LB/1000 SQ FT) 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE (91.83 LB/1000 SQ FT) STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTENT TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

## PERMANENT SEEDING SPECIFICATIONS

**FALL AND EARLY SPRING**
**(FROM NC EROSION & SEDIMENT CONTROL DESIGN MANUAL - TABLE 6.11P)**

SEEDING NO. 1CP FOR: WELL TO POORLY DRAINED SOILS WITH GOOD MOISTURE RETENTION; LOW MAINTENANCE

SEEDING MIXTURE

| SPECIES | RATE (LB/ACRE) | (LB/1000 FT²) |
|---|---|---|
| TALL FESCUE | 80 | 1.84 |
| PENSACOLA BAHIAGRASS | 50 | 1.15 |
| SERICEA LESPEDEZA | 80 | 0.69 |
| KOBE LESPEDEZA | 10 | 0.23 |

SEEDING NOTES
1. FROM SEPT. 1 - MAR. 1, USE UNSCARIFIED SERICEA SEED.
2. ON POORLY DRAINED SITES, OMIT SERICEA AND INCREASE KOBE TO 30 LB/ACRE.
3. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA AND INCREASE KOBE TO 40 LB/ACRE.

NURSE PLANOT TO SCALE
BETWEEN APR. 15 AND AUG. 15, ADD 10 LB/ACRE GERMAN MILLET OR 15 LB/ACRE SUDANGRASS. PRIOR TO MAY 1 OR AFTER AUG. 15, ADD 25 LB/ACRE RYE (GRAIN).

SEEDING DATES

| | BEST | POSSIBLE |
|---|---|---|
| EARLY SPRING: | FEB. 15 - MAR. 20 | FEB. 15 - APR. 30 |
| FALL: | SEPT. 1 - SEPT. 30 | SEPT. 1 - OCT. 31 |

SOIL AMENDMENOT TO SCALE
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 3,000-5,000 LB/ACRE (68.9-114.8 LB/1000 SQ FT) GROUND AGRICULTURAL LIMESTONE (USE THE LOWER RATE ON SANDY SOILS) AND 1,000 LB/ACRE (22.9 LB/1000 SQ FT) 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE (91.83 LB/1000 SQ FT) GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED A MULCH ANCHORING TOOL.

MAINTENANCE
IF GROWTH IS LESS THAN FULLY ADEQUATE, REFERTILIZE IN THE SECOND YEAR, ACCORDING TO SOIL TESTS OR TOPDRESS WITH 500 LB/ACRE (11.5 LB/1000 SQ FT) 10-10-10 FERTILIZER, MOW AS NEEDED WHEN SERICEA IS OMITTED FROM THE MIXTURE. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.

[1] REFER TO APPENDIX 8.02 FOR BOTANICAL NAMES

**LATE SPRING AND EARLY SUMMER**
**(FROM NC EROSION & SEDIMENT CONTROL DESIGN MANUAL - TABLE 6.11T)**

SEEDING NO. 5CP FOR: WELL DRAINED SANDY LOAMS TO DRY SANDS; LOW MAINTENANCE

SEEDING MIXTURE

| SPECIES | RATE (LB/ACRE) | (LB/1000 FT²) |
|---|---|---|
| PENSACOLA BAHIAGRASS | 50 | 1.15 |
| SERICEA LESPEDEZA | 30 | 1.69 |
| COMMON BERMUDAGRASS | 10 | 0.23 |
| GERMAN MILLET | 10 | 0.23 |

SEEDING NOTES
1. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA.
2. USE A COMMON BERMUDAGRASS ONLY ON ISOLATED SITES WHERE IT CANNOT BECOME A PEST. BERMUDAGRASS MAY BE REPLACED WITH 5 LB/ACRE CENTIPEDEGRASS.

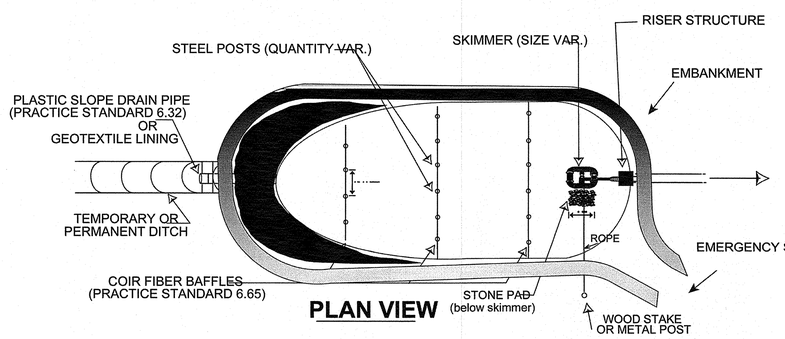
SEEDING DATES
APRIL 1 - JULY 15

SOIL AMENDMENOT TO SCALE
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 3,000 LB/ACRE (68.9 LB/1000 SQ FT) GROUND AGRICULTURAL LIMESTONE AND 500 LB/ACRE (11.5 LB/1000 SQ FT) 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE (91.83 LB/1000 SQ FT) GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED A MULCH ANCHORING TOOL.

MAINTENANCE
REFERTILIZE THE FOLLOWING APR. WITH 50 LB/ACRE (1.15 LB/1000 SQ FT) NITROGEN. REPEAT AS GROWTH REQUIRES. MAY BE MOWED ONLY ONCE A YEAR. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA AND MOW AS OFTEN AS NEEDED.

[1] REFER TO APPENDIX 8.02 FOR BOTANICAL NAMES




Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole D Smith | 1/30/20 |
| Traffic | | 1-30-20 |
| Fire | | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed:

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance


SEPI
1 GLENWOOD AVE. SUITE 600
RALEIGH, NC 27603
PHONE 919.789.9977
11020 DAVID TAYLOR DR., SUITE 115
CHARLOTTE, NC 28262
PHONE 704.714.4880
5030 NEW CENTRE DR., SUITE B
WILMINGTON, NC 28403
PHONE 910.523.5715
sepiinc.com


811 Know what's below. Call before you dig. 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI
SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | SEDIMENT BASIN NOTES ADDED | | | | | | | | 01/03/2020 |

OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION
ADDRESS: 119 N. SALISBURY STREET RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH
ADDRESS: 4355 S 17TH STREET WILMINGTON NC 28412

EROSION CONTROL, GRADING, AND STORMWATER DETAILS

| | |
|---|---|
| PROJECT MANAGER: MTA | FIELD SURVEY DATE: 02/15/19 |
| CHECKED BY: DM | DRAWING DATE: 12/03/2019 |
| DRAWN BY: KD | JOB #: SEI8.19100 |

SHEET
C-7.5

## 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.

## Temporary and Permanent Groundcover*

**STABILIZATION TIMEFRAMES**
(Effective Aug. 3, 2011)

| SITE AREA DESCRIPTION | STABILIZATION | TIMEFRAME EXCEPTIONS |
|---|---|---|
| Perimeter dikes, swales, ditches, 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 steeper than 2:1, 14 days are allowed. |
| Slopes 3:1 or flatter | 14 days | 7 days for slopes greater than 50' in length. |
| All other areas with slopes flatter than 4:1 | 14 days | None, except for perimeters and HQW Zones. |

*-For Falls Lake watershed, in disturbed areas where grading activities are incomplete, provide temporary groundcover no later than seven (7) days for slopes steeper than 3:1; ten (10) days for slopes equal to or flatter than 3:1; fourteen (14) days for areas with no slope.

## GROUND STABILIZATION SPECIFICATION

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

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

## POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

NORTH CAROLINA
*Environmental Quality*

## EQUIPMENT AND VEHICLE MAINTENANCE

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

## LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number of waste containers on site to manage the quantity of waste produced.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow.
8. Dispose waste off-site at an approved disposal facility.

## PAINT AND OTHER LIQUID WASTE

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

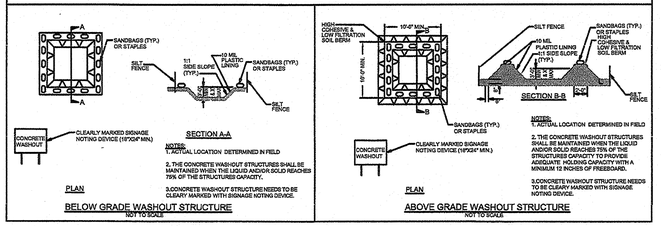
## PORTABLE TOILETS

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

## EARTHEN STOCKPILE MANAGEMENT

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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER




## CONCRETE WASHOUTS

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

## HERBICIDES, PESTICIDES AND RODENTICIDES

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

## HAZARDOUS AND TOXIC WASTE

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

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole D'Smith | 1/30/20 |
| Traffic | N Smith | 1-30-20 |
| Fire | C. Walker | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed:

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance

# NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 03/01/19


SEPI
1 GLENWOOD AVE, SUITE 600
RALEIGH, NC 27603
PHONE 919.789.9977
11020 DAVID TAYLOR DR., SUITE 115
CHARLOTTE, NC 28262
PHONE 704.714.4880
5030 NEW CENTRE DR., SUITE B
WILMINGTON, NC 28403
PHONE 910.523.5715
sepiinc.com


811 Know what's below. Call before you dig. 3 WORKING DAYS BEFORE YOU DIG FOR THE LOCATION OF UNDERGROUND FACILITIES

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NORTH CAROLINA PROFESSIONAL SEAL 24419 ENGINEER MARK T. ARCURI — Jan 27, 2020

SEPI ENGINEERING & CONSTRUCTION, INC. CORPORATE SEAL C-2197 N.C.



OWNER/DEVELOPER/APPLICANT: STATE EMPLOYEES' CREDIT UNION
ADDRESS: 119 N. SALISBURY STREET RALEIGH, NORTH CAROLINA 27603 PHONE: 919-839-5300

PROJECT: STATE EMPLOYEES' CREDIT UNION - WILMINGTON S 17th STREET BRANCH
ADDRESS: 4355 S 17TH STREET WILMINGTON NC 28412

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

| PROJECT MANAGER | FIELD SURVEY DATE: |
|---|---|
| MTA | 02/15/19 |
| CHECKED BY: DM | DRAWING DATE: 12/03/2019 |
| DRAWN BY: KD | JOB #: SE18.191.00 |

SHEET C-7.6

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

### SECTION A: SELF-INSPECTION

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

| **Inspect** | **Frequency (during normal business hours)** | **Inspection records must include** [40 CFR 122.41]**:** |
|---|---|---|
| (1) Rain gauge maintained in good working order | Daily | Daily rainfall amounts.<br>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 is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division. |
| (2) E&SC Measures | At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours | 1. Identification of the measures inspected,<br>2. Date and time of the inspection,<br>3. Name of the persen performing the inspection,<br>4. Indication of whether the measures were operating properly,<br>5. Description of maintenance needs for the measure,<br>6. Corrective actions taken, and<br>7. Date of actions taken. |
| (3) Stormwater discharge outfalls (SDOs) | At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours | 1. Identification of the discharge outfalls inspected,<br>2. Date and time of the inspection,<br>3. Name of the persen performing the inspection,<br>4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,<br>5. Indication of visible sediment leaving the site,<br>6. Actions taken to correct/prevent sedimentation, and<br>7. Date of 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:<br>1. Actions taken to clean up or stabilize the sediment that has left the site limits,<br>2. Date of actions taken, and<br>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:<br>1. Evidence and actions taken to reduce sediment contributions, and<br>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. |

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

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

### SECTION B: RECORDKEEPING

**1. E&SC Plan Documentation**

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

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

**2. Additional Documentation**

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

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

(b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

(c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

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

### SECTION C: REPORTING

**1. Occurrences that must be reported**

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(b) Anticipated bypasses and unanticipated bypasses.

(c) Noncompliance with the conditions of this permit that may endanger health or the environment.

**2. Reporting Timeframes and Other Requirements**

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

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

NORTH CAROLINA
*Environmental Quality*

# NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 03/01/19

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Nicole D Smith | 1/30/20 |
| Traffic | W Simmons | 1-30-20 |
| Fire | C. Wilson | 1/30/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 20200003
Signed:

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance

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NCG01 SELF-INSPECTION, RECORD KEEPING AND REPORTING

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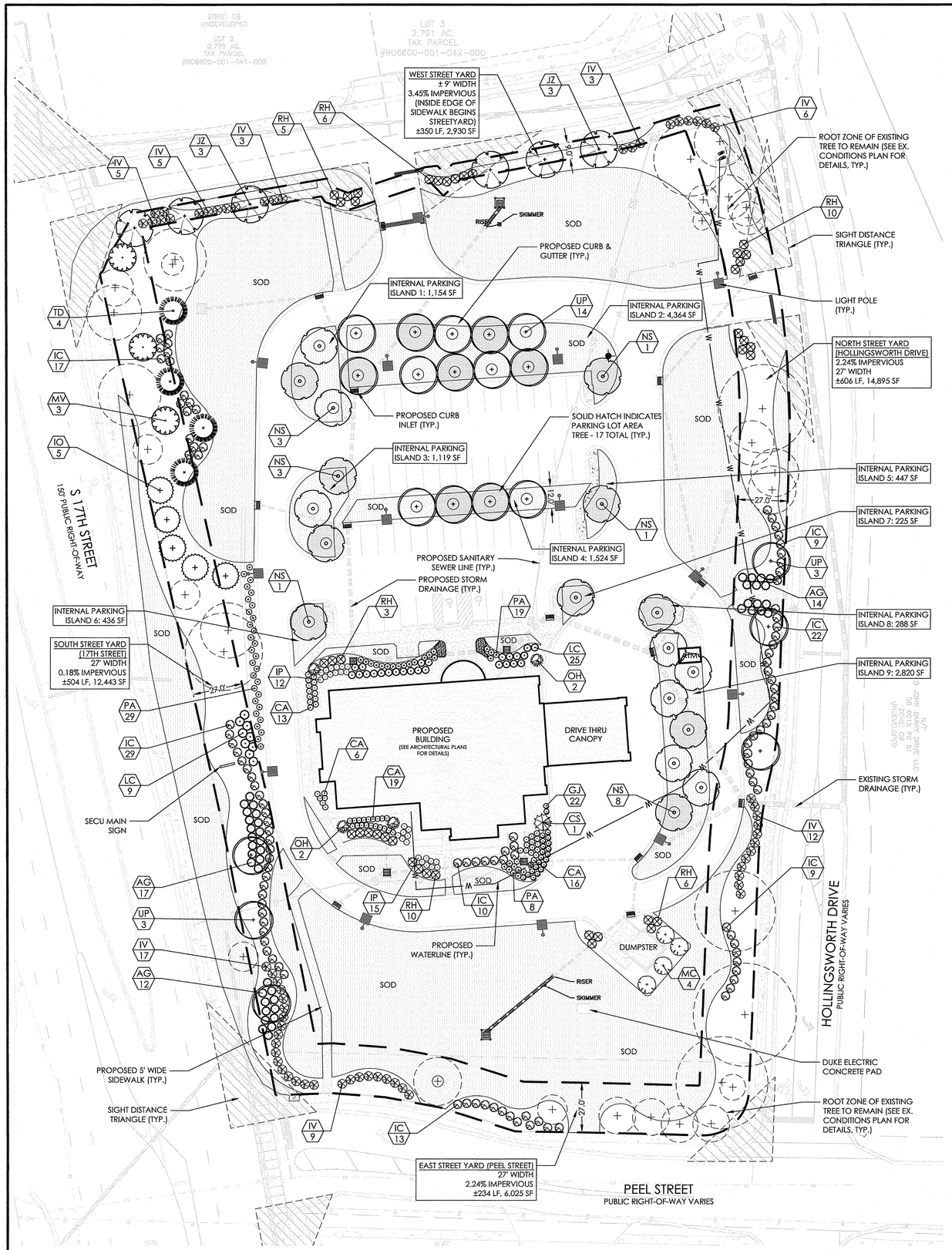
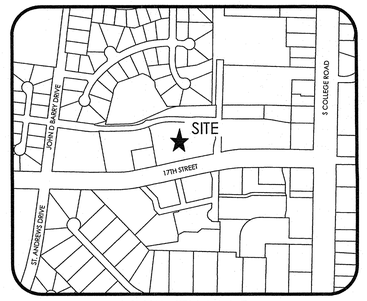
SHEET
C-7.7




## LANDSCAPE NOTES:

1. ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY. ALL GENERAL NOTES AND GENERAL CONSTRUCTION NOTES APPLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITY TAKE-OFFS AND VERIFICATION OF MATERIALS AS SHOWN ON THESE PLANS AND IN WRITTEN SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO FINAL BIDDING OR INSTALLATION.
3. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING AND PROPOSED UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
4. ALL LANDSCAPE MATERIALS SHALL CONFORM TO THE ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
5. PRIOR TO THE END OF EACH WORKING DAY, THE CONTRACTOR SHALL PROPERLY BACKFILL ALL PLANT MATERIAL THAT HAS BEEN PLACED IN PREPARED HOLES; AND PROPERLY WATER AND MULCH ALL PREPARED GROUNDCOVER, PERENNIAL AND ANNUAL BEDS
6. ALL TREES AND SHRUBS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.
7. LANDSCAPE ARCHITECT OR OWNER SHALL APPROVE ANY ON-SITE PLANT STORAGE AREA.
8. ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED BY HAND PRIOR TO PLACEMENT AND BACK FILLING WITH PREPARED SOILS. HAND TOOLS ARE NOT TO BE USED TO SCARIFY ROOT BALLS.
9. ALL ROPE AND WRAPPING TWINE SHALL BE CUT AND REMOVED FROM AROUND THE UPPER PARTS OF THE ROOT BALL. METAL BASKET WIRES AND BURLAP SHALL BE PULLED BACK AND TUCKED UNDER THE EDGES OF THE SAUCER RINGS ON ALL TREES AND LARGE SHRUBS. ALL SYNTHETIC BURLAP SHALL BE REMOVED FROM PLANT BALLS PRIOR TO BACKFILLING.
10. ALL PLANTING AREAS SHALL BE EDGED WITH SMOOTH, CONTINUOUS CURVES.
11. ALL PLANT MATERIAL SHALL BE PLANTED AT HEIGHTS AS SPECIFIED IN THE PLANTING DETAILS & PLANT LIST, CONTAINER SIZES PROVIDED FOR REFERENCE ONLY.
12. TREE STAKING AND GUYING, IF NECESSARY, SHALL BE PERFORMED WITHIN A WEEK OF PLANTING. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TREE STAKING MATERIAL AFTER THE FIRST FULL GROWING SEASON OR ONE YEAR, WHICH EVER COMES FIRST.
13. B & B AS LISTED UNDER "ROOT" IN THE PLANT LIST INDICATES BALLED AND BURLAPPED.
14. ALL PLANT BEDS AND RAISED SAUCER RINGS SHALL BE GRADED TO PROVIDE ADEQUATE DRAINAGE AND SHALL BE MULCHED AS SPECIFIED.
15. ALL MATERIALS, PLANTING AND LANDSCAPE WORK SHALL CONFORM TO THE LOCAL OR COUNTY JURISDICTIONAL AUTHORITY'S STANDARD SPECIFICATIONS AND DETAILS.
16. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30" - 10'.
17. NO WETLANDS EXIST ON SITE PER USAGE JURISDICTION DETERMINATION ISSUED 4-9-2019 BY ACTION ID SAW-2012-00566.




VICINITY MAP

NOT TO SCALE

| TREES | | | | | | |
|---|---|---|---|---|---|---|
| QTY | SYM | BOTANICAL NAME | COMMON NAME | SIZE (min.)* | ROOT** | REMARKS |
| 5 | IO | Ilex opaca | American Holly | 2" CAL. | B&B | |
| 3 | MV | Magnolia virginiana | Sweetbay Magnolia | 2" CAL. | B&B | |
| 18 | NS | Nyssa sylvatica | Black Gum | 2.5" CAL. | B&B | |
| 4 | TD | Taxodium distichum | Bald Cypress | 2" CAL. | B&B | |
| 20 | UP | Ulmus parvifolia | Lacebark Elm | 3" CAL. | B&B | |
| 6 | JZ | Zelkova serrata | Japanese Zelkova | 2.5" CAL. | B&B | |
| **SHRUBS, SMALL TREES, AND GRASSES** | | | | | | |
| 43 | AG | Abelia grandiflora 'Edward Goucher' | Edward Goucher Abelia | 24" HT. | 3 GAL. | |
| 54 | CA | Calamagrosis x acutiflora 'Karl Foerster' | Feather Reed Grass | 18" HT. | 3 GAL. | |
| 1 | CS | Camelia sasanqua | Camelia | 30" HT. | 5 GAL. | |
| 22 | GJ | Gardenia jasminoides 'Radicans' | Dwarf Gardenia | 18" HT. | 3 GAL. | |
| 109 | IC | Ilex cornuta 'Burfordii Nana' | Dwarf Burford Holly | 18" HT. | 3 GAL. | |
| 61 | IV | Ilex vomitoria 'Nana' | Dwarf Yaupon Holly | 18" HT. | 3 GAL. | |
| 4 | OH | Ilex x 'Conaf' | Oak Leaf Holly | 5'-6' HT. | B&B | |
| 27 | IP | Illicium parviflorum 'Florida Sunshine' | Florida Sunshine Anise Tree | 18" HT. | 3 GAL. | |
| 34 | LC | Loropetalum chinense 'Crimson Fire' | Crimson Fire Fringeflower | 18" HT. | 3 GAL. | |
| 4 | MC | Myrica cerifera | Wax Myrtle | 24" HT. | 5 GAL. | |
| 56 | PA | Pennisetum alopecuroides 'Hameln' | Hameln Dwarf Fountain Grass | 12" HT. | 3 GAL. | |
| 40 | RH | Rhaphiolepis indica | Indian Hawthorn | 24" HT. | 3 GAL. | |
| **TURF** | | | | | | |
| 8,000 | LAWN | Cynodon dactylon | Hybrid Bermudagrass | | SOD | |

NOTES:
* PLANT HEIGHTS LISTED ARE THE MINIMUM HEIGHTS AT INSTALLATION.
** PLANT SIZES ARE THE MINIMUM CALIPER AT INSTALLATION FOR TREES. CONTAINER SIZE SHOWN FOR OTHER
** PLANTS IS TO BE USED AS A GUIDE; PLANT HEIGHTS LISTED SHALL GOVERN.

| TOTAL SITE COVERAGE | |
|---|---|
| TOTAL SITE AREA | 3.97 AC |
| TREES REQ. PER ACRE | 15 |
| TREES REQUIRED | 60 |
| TREES PROVIDED | 94 |
| EXISTING TREES | 31 |
| PROPOSED TREES | 63 |
| NOTE: THE TREES PRESERVED FOR THIS PROJECT TOTAL 78.83 CREDITS | |

| PARKING LOT ISLAND TREES | | | | | | |
|---|---|---|---|---|---|---|
| INTERNAL PARKING ISLAND | AREA (SF) | DOUBLE ISLAND AREA (SF) | DOUBLE ISLAND TREES | ADDITIONAL AREA (SF) | ADDITIONAL TREES | TOTAL TREES |
| 1 | 1,154 | 432 | 1 | 722 | 2 | 3 |
| 2 | 4,364 | 432 | 1 | 3,932 | 10 | 11 |
| 3 | 1,119 | 432 | 1 | 687 | 2 | 3 |
| 4 | 1,524 | 432 | 1 | 1,092 | 3 | 4 |
| 5 | 447 | 432 | 1 | 15 | 0 | 1 |
| 6 | 436 | 432 | 1 | 4 | 0 | 1 |
| 7 | 225 | 432 | 1 | 0 | 0 | 1 |
| 8 | 288 | 432 | 1 | 0 | 0 | 1 |
| 9 | 2,820 | 432 | 1 | 2,388 | 6 | 7 |
| TOTALS | 12,377 | | 9 | 8840 | 23 | 32 |

| FOUNDATION PLANTINGS | | | |
|---|---|---|---|
| | BUILDING FACE AREA (SF) | MULTIPLIER (%) | FOUNDATION PLANTINGS AREA (SF) |
| REQUIRED | 12,160 | 12 | 1,459 |
| PROVIDED | | | 7,117 |

NOTES:
BUILDING FAÇADE AREA INCLUDES EAST, SOUTH, AND WEST FAÇADES. NORTH FAÇADE NOT INCLUDED DUE TO DRIVE THRU.

| STREET YARD CALCULATIONS | | | |
|---|---|---|---|
| STREET YARD | LENGTH (FT) | MULTIPLIER | REQUIRED AREA (SF) |
| NORTH (HOLLINGSWORTH DR) | ± 606 | 9 | 5,454 |
| | 1 TREE PER 600 SF = | 10 | TREES REQUIRED |
| | | 10 | TREES PROVIDED |
| | | | (7 EXISTING + 3 PROPOSED) |
| | 6 SHRUBS PER 600 SF = | 55 | SHRUBS REQUIRED |
| | | 55 | SHRUBS PROVIDED |
| | TOTAL STREET YARD AREA | 14,895 | SF |
| | IMPERVIOUS AREA | 271 | SF (1.82%) |
| STREET YARD | LENGTH (FT) | MULTIPLIER | REQUIRED AREA (SF) |
| EAST (PEEL ST.) | ± 234 | 9 | 2,106 |
| | 1 TREE PER 600 SF = | 4 | TREES REQUIRED |
| | | 4 | TREES PROVIDED |
| | | | (4 EXISTING + 0 PROPOSED) |
| | 6 SHRUBS PER 600 SF = | 22 | SHRUBS REQUIRED |
| | | 22 | SHRUBS PROVIDED |
| | TOTAL STREET YARD AREA | 6,025 | SF |
| | IMPERVIOUS AREA | 135 | SF (2.24%) |
| STREET YARD | LENGTH (FT) | MULTIPLIER | REQUIRED AREA (SF) |
| SOUTH (17th STREET) | ± 504 | 18 | 9,072 |
| | 1 TREE PER 600 SF = | 16 | TREES REQUIRED |
| | | 16 | TREES PROVIDED |
| | | | (5 EXISTING + 12 PROPOSED) |
| | 6 SHRUBS PER 600 SF = | 91 | SHRUBS REQUIRED |
| | | 91 | SHRUBS PROVIDED |
| | TOTAL STREET YARD AREA | 12,443 | SF |
| | IMPERVIOUS AREA | 22 | SF (0.18%) |
| STREET YARD | LENGTH (FT) | MULTIPLIER | REQUIRED AREA (SF) |
| WEST BOUNDARY | ± 350 | 9 | 3,141 |
| | 1 TREE PER 600 SF = | 6 | TREES REQUIRED |
| | | 6 | TREES PROVIDED |
| | | | (0 EXISTING + 6 PROPOSED) |
| | 6 SHRUBS PER 600 SF = | 32 | SHRUBS REQUIRED |
| | | 32 | SHRUBS PROVIDED |
| | TOTAL STREET YARD AREA | 2,930 | SF |
| | IMPERVIOUS AREA | 101 | SF (3.45%) |

| REMOVED TREES | CREDIT | MITIGATION % | MITIGATION CREDIT | REPLACEMENT TREES |
|---|---|---|---|---|
| 22" PINE | 4 | 100% | 4 | (4) 2" BALD CYPRESS |

| PARKING LOT AREA | | |
|---|---|---|
| SURFACE AREA | 57,390 | SF |
| | | |
| 20% TREE COVERAGE REQ'D | 11,478 | SF |
| COVERAGE PER INTERIOR TREE | 707 | SF |
| TREES REQUIRED | 17 | |
| | | |
| TREES PROVIDED | 17 | |

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Durelle D'Smith | 1/31/20 |
| Traffic | W Emerson | 1-31-20 |
| Fire | | 2/4/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 Permit # 2020003
Signed:

GRAPHIC SCALE
30 0 15 30 60
( IN FEET )
1 inch = 30 ft. Horz.

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1191 JEFFREY W. WESTMORELAND 01.24.2020

NORTH CAROLINA REGISTERED ENGINEERING & CONSTRUCTION, INC. C - 482



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LANDSCAPE PLAN

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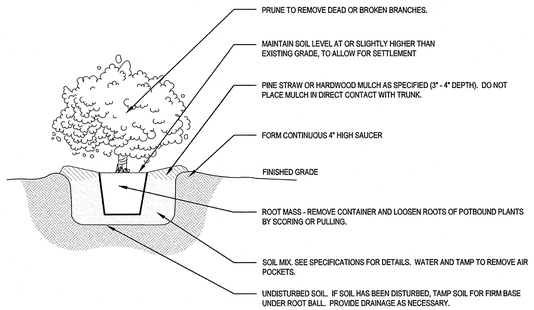


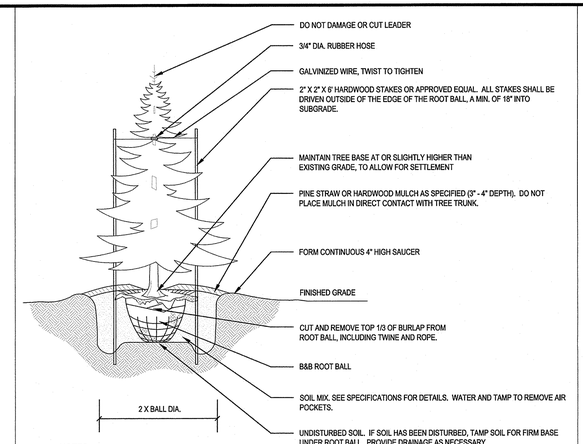

NOTES:

1. ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY.
2. REMOVE ALL TAGS, TWINE OR OTHER NON-BIODEGRADABLE MATERIALS ATTACHED TO PLANT OR ROOT MASS.

## SHRUB & ORNAMENTAL GRASSES PLANTING

SCALE: NTS

3



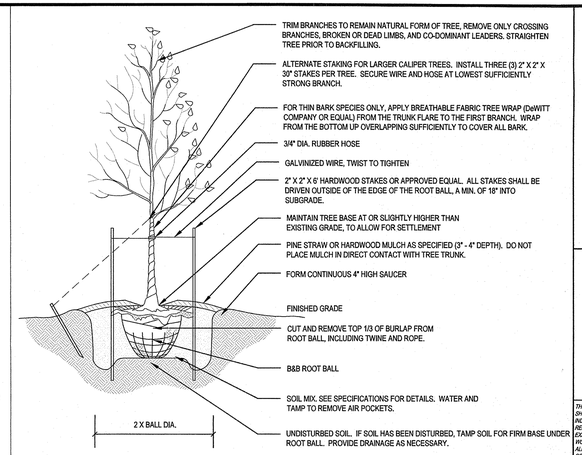

NOTES:

1. ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY.
2. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT WIRE BASKET IN SEVERAL PLACES AND FOLD DOWN A MINIMUM OF 8" INTO PLANTING HOLE. REMOVE ALL SYNTHETIC BURLAP FROM ROOT BALL PRIOR TO BACKFILLING.
3. FOR CONTAINER GROWN TREES, SUFFICIENTLY SCARIFY ROOT BALL PRIOR TO PLANTING.

## CONIFER TREE PLANTING

SCALE: NTS

2




NOTES:

1. ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY.
2. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT WIRE BASKET IN SEVERAL PLACES AND FOLD DOWN A MINIMUM OF 8" INTO PLANTING HOLE. REMOVE ALL SYNTHETIC BURLAP FROM ROOT BALL PRIOR TO BACKFILLING.
3. FOR CONTAINER GROWN TREES, SUFFICIENTLY SCARIFY ROOT BALL PRIOR TO PLANTING.

## DECIDUOUS TREE PLANTING

SCALE: NTS

1

Approved Construction Plan

| | Name | Date |
|---|---|---|
| Planning | Mark Dimon | 1/31/20 |
| Traffic | W Smith | 1-31-20 |
| Fire | | 2/4/20 |

CITY OF WILMINGTON NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 1/30/2020 permit # 20200003
Signed:

For each open utility cut of City streets, a $325 permit shall be required from the City prior to occupancy and/or project acceptance

SEPI

1 GLENWOOD AVE, SUITE 600
RALEIGH, NC 27603
PHONE 919.789.9977

11020 DAVID TAYLOR DR., SUITE 115
CHARLOTTE, NC 28262
PHONE 704.714.4880

5030 NEW CENTRE DR., SUITE B
WILMINGTON, NC 28403
PHONE 910.523.5715

sepiinc.com

811 Know what's below. Call before you dig.
3 WORKING DAYS BEFORE YOU DIG
FOR THE LOCATION OF UNDERGROUND FACILITIES

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE:
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR; NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1191 JAMES W. WESTBROOK III
01.24.2020

NORTH CAROLINA SEPI ENGINEERING & CONSTRUCTION, INC. C - 482



OWNER/DEVELOPER/APPLICANT
STATE EMPLOYEES' CREDIT UNION

ADDRESS:
119 N. SALISBURY STREET
RALEIGH, NORTH CAROLINA 27603
PHONE: 919-839-5300

PROJECT
STATE EMPLOYEES' CREDIT UNION - WILMINGTON
S 17th STREET BRANCH

ADDRESS:
4355 S 17TH STREET
WILMINGTON NC 28412

LANDSCAPE DETAILS

| PROJECT MANAGER | FIELD SURVEY DATE: |
|---|---|
| MTA | 02/15/19 |
| CHECKED BY: | DRAWING DATE: |
| DM | 12/03/2019 |
| DRAWN BY: | JOB #: |
| KD | SE18.191.00 |

SHEET
L-2.0