



# CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

## Project Description:

Renew 061-19-MW: "Remove 2 trees; storm drainage installation; small landscape plan"

301 Pogue St

Address

Historic District

Raleigh Little  
Theatre/Amphitheatre/Rose Garden

Historic Property

COA-0013-2020

Certificate Number

2/4/2020

Date of Issue

2/4/2021

Expiration Date

*This card must be kept posted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.*

Signature, \_\_\_\_\_

*Collette R. Kinne*

Raleigh Historic Development Commission

*Pending the resolution of appeals, commencement of work is at your own risk.*



# Certificate of Appropriateness | Application

Development Services Customer Service Center • One Exchange Plaza, Suite 400 | Raleigh, NC 27601 | 919-996-2495



This form can be submitted in person or via USPS at the above address.

Type or print the following:		
Applicant name: Gary Claiborne, Raleigh Parks, Recreation and Cultural Resources		
Mailing address: 222 West Hargett Street, Suite 601		
City: Raleigh	State: NC	Zip code: 27601
Date: 1/15/2020	Daytime phone #: 919-996-2677	
Email address: gary.claiborne@raleighnc.gov		
Applicant signature:		
<div><input checked="" type="checkbox"/> Minor work (staff review) – one copy Major work (COA committee review) – one copy (10 copies will be required after initial staff review) <input type="checkbox"/> Additions &gt; 25% of building sq. footage <input type="checkbox"/> New buildings <input type="checkbox"/> Demolition of building or structure <input type="checkbox"/> All other <input type="checkbox"/> Post approval re-review of conditions of approval</div>	<div><b>Office Use Only</b> Transaction #: _____ File #: <u>COA-0013-2020</u> Fee: _____ Amount paid: _____ Received date: _____ Received by: _____</div>	
Property street address: 301 Pogue Street, Raleigh, NC 27607		
Historic district: N/A		
Historic property/Landmark name (if applicable): Raleigh Little Theatre/Amphitheatre/Rose Garden		
Owner name: City of Raleigh, Parks, Recreation and Cultural Resources		
Owner mailing address: 222 West Hargett St., Suite 601, Raleigh NC 27607		



**For applications that require review by the COA Committee (major work), provide addressed and stamped envelopes for owners for all properties with 100 feet on all sides of the property, as well as the property owner.**

Property Owner Name & Address	Property Owner Name & Address

**I understand that all major work applications that require review by the Raleigh Historic Development Commission's COA Committee must be submitted by 4 p.m. on the date of the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.**

Will you be applying for rehabilitation tax credits for this project? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Did you consult with staff prior to filing the application? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Office Use Only Type of work: <u>91</u>
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Design Guidelines: please cite the applicable sections of the design guidelines ( <a href="http://www.rhdc.org">www.rhdc.org</a> ).		
Section/Page	Topic	Brief description of work (attach additional sheets as needed).
1.3	Site Features	Stormwater quality improvements, see attached plans.

<p align="center"><b>Minor Work Approval (office use only)</b></p> <p>Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until <u>02/04/2021</u>.</p> <p>Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor Works are subject to an appeals period of 30 days from the date of approval.</p> <p>Signature (City of Raleigh) <u>Collette R K</u> Date <u>02/04/20</u></p>
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To be completed by applicant			Office Use Only		
	Yes	N/A	Yes	No	N/A
Attach 8-1/2"x11" or 11"x17" sheets with written descriptions and drawings, photographs, and other graphic information necessary to completely describe the project. Use the checklist below to be sure your application is complete. <a href="#">Minor Work</a> (staff review) – 1 copy <a href="#">Major Work</a> (COA Committee review) – 1 copy (10 copies will be required after initial staff review).	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1. <b>Written description.</b> Describe clearly and in detail the nature of your project. Include exact dimensions for materials to be used (e.g. width of siding, window trim, tree species, etc.)	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. <b>Description of materials</b> (Provide samples, if appropriate)	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. <b>Color Photographs</b> of existing conditions are required. Minimum image size 4" x 6" as printed. Maximum 2 images per page. Photos should be of each side of the house, fully show the yards, and include streetscapes.	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. <a href="#">Paint Schedule</a> (if applicable)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. <b>Site Drawings.</b> Required for projects that include any addition, demolition, fences, walls, or other landscape work. <ul style="list-style-type: none"> <li><a href="#">Plot plan</a>   showing relationship of buildings, additions, sidewalks, drives, trees, property lines, etc.</li> <li>Tree survey   include size, species, and critical root zone for each tree over 8" diameter when measured 4' above ground level</li> <li>Tree protection plan   include material staging area, construction access, limits of disturbance, location of tree protection fencing</li> <li>Grading plan</li> <li>Dimensions shown on drawings and/or graphic scale (required)</li> <li>11"x17" or 8-1/2"x11" reductions of full-size drawings</li> </ul>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. <b>Architectural Drawings</b> showing existing and proposed work (if applicable) <ul style="list-style-type: none"> <li>Plan drawings</li> <li>Elevation drawings showing the façade(s). For additions, deck, and porches, include the grade.</li> <li>Dimensions shown on drawings and/or graphic scale (required)</li> <li>11" x 17" or 8-1/2" x 11" reductions of full-size drawings. If reduced size is so small as to be illegible, make 11" x 17" or 8-1/2" x 11" snap shots of individual drawings from the big sheet.</li> </ul>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Stamped envelopes addressed to all property owners within 100 feet of property, on all sides of the property, as well as the property owner (required for Major Work). Use the <a href="#">Label Creator</a> to determine the addresses.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. <b>Fee</b> ( <a href="#">See Development Fee Schedule</a> )	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





**Raleigh**

## **MEMO**

**TO: Raleigh Historic District Commission**

**FROM: Gary Claiborne, Capital Projects Manager**

**DEPARTMENT: Parks, Recreation, and Cultural Resources**

**DATE: January 15, 2020**

**SUBJECT: Raleigh Rose Garden Stormwater Improvements Project**

Note that this is our second Minor Work application. The first application was approved and a COA Placard issued on 7/1/2019. As the project has extended beyond the 1/1/2020 expiration date, this second application is being submitted for approval. Construction is planned to start in late February 2020.

### **Project Narrative**

In order to alleviate the negative effects of stormwater on the Rose Garden, the Raleigh Parks, Recreation and Cultural Resources Department, working in cooperation with the Stormwater Management Water Quality Division, intends to construct a new stormwater bioretention feature and provide additional improvements to the park's existing stormwater infrastructure. SEPI Engineers is the project's design consultant.

### **Project Background**

The Raleigh Rose Garden is a unique venue within the City of Raleigh Parks, Recreation and Cultural Resources Department (PRCR). The garden was originally dedicated in 1951 and is part of the historically-designated Raleigh Little Theatre campus (landmarked 1990). The garden is composed of over 60 rose beds each displaying a unique variety. Additional perennial beds and woody plants define the perimeter of the garden. The garden is open to the public and is frequently rented for wedding and other special events. Events are managed via the Raleigh Little Theatre.

Topographically the Rose Garden is located within a low bowl. Heavy rainfall events frequently cause the garden to flood to depth of over a foot with floodwaters typically receding in 2 to 24 hours. This flooding is creating maintenance challenges for City staff (clogged grate inlets; sediment and debris; and rose and grass health issues).

PRCR started working with the Stormwater and Watershed Planning Section within Engineering Services in 2015 to evaluate the existing drainage system and develop recommendations to alleviate flooding. The report was finalized in July 2016. Below is a summary of the report.

- There are two drainage systems that contribute to the flooding at the Rose Garden. The primary drainage system is a City maintained system

Municipal Building  
222 West Hargett Street  
Raleigh, North Carolina 27601

One Exchange Plaza  
1 Exchange Plaza,  
Raleigh, North Carolina 27601

City of Raleigh  
Post Office Box 590 • Raleigh  
North Carolina 27602-0590  
(Mailing Address)



conveying the upstream (offsite) stormwater runoff through the property to a downstream receiving system. The secondary system is composed of roof leaders, roadside gutters, curb cuts, grassed swales, drainage inlets, drainage grates, and relatively small diameter closed pipes.

- Five design alternatives were evaluated ranging from small improvements to the secondary drainage system to bringing the City's primary drainage system up to minimum City design requirements. Two of the evaluated alternatives involved making retrofit improvements to the secondary drainage system that would provide water quality benefits for the downstream watershed. These water quality retrofits were conceived to bring a water quality and educational outreach benefit to the watershed and qualify the project for the City's stormwater cost share program.

Following issuance of the report, PRCR decided to further pursue Alternative #2, described below.

- Alternative #2 focuses on improving the secondary drainage system by redirecting the runoff coming from the roof top of the Little Theatre building, the entrance road off Pogue Street, and the driveway and lower parking area.
- Stormwater flow is redirected into a bio-engineered stormwater feature that would reduce flooding in the lower bowl while providing water quality benefits for the receiving watershed.
- The bio-engineered stormwater feature was conceptualized as a relatively wide, shallow grassed swale with an underdrain system composed of well-draining soils. Overflow from the stormwater feature would tie into the existing City drainage system exiting the north side of the Garden
- This alternative would qualify the project for water quality assistance funding from the City of Raleigh's stormwater cost share program.

#### Existing Stormwater Infrastructure (Primary Drainage System)

The existing site drainage system is shown in the attached City of Raleigh PUMA maps. Four drain lines currently feed into an existing manhole structure located immediately beside the Garden fountain basin. The manhole is sunken and presents a physical impediment in the landscape.

- 18" drainage line feeds in from the south (Amphitheatre area and Clark Avenue)
- 12" line feeds in from the east (street drains at the intersection of Pogue Street and Everett Avenue.)
- 12" line feeds in from the west (street drain on Pogue Street)
- 12" line feeds in from the southeast (area drain in garden)
- From the structure by the fountain basin, the three lines combine into a single 24" line running north. The 24" line then ties into a 30" pipe exiting the Garden, going under Pogue Street, and into Isabella Cannon Park. This line eventually discharges into a stream close to the intersection of Bedford Avenue and Phelps Avenue.



### Project Design Plans

In Fall 2018, PRCR contracted with SEPI Engineers to take the project from concept to full design, including preparation of permit and bid documents, bid services, and construction administration. SEPI based their design mainly on the recommendations in Alternative #2 in the 2016 report (described previously). The plans primarily address the secondary drainage system but also add improvements to the primary drainage infrastructure. Project costs for both design and construction are shared between PRCR and the Stormwater cost share program. ***For additional information, see the design plans included in this application.***

#### Design Plan overview:

- Construction is planned start around late-November/early December 2019. Construction is expected to take 120 days (end March 2020).
- Roses within the limits of construction will be removed by PRCR horticultural and maintenance staff prior to the start of construction. Roses will be re-installed immediately after construction by PRCR staff.
- The planned stormwater bioretention feature is located on the east side of the Garden, between the rose beds and Raleigh Little Theatre building. Feature is divided into upper and lower treatment areas separated by a stone weir. The weir serves the role of slowing and containing stormwater flow. The feature will be 12" deep and designed to hold 6" of ponded water. Bioswale soil media will be installed at bottom of feature to allow for water infiltration. The media is underlaid with a layer of permeable sand and stone surrounding a perforated pipe that will connect to the primary pipe infrastructure. See details on Plan C 5.0.
- Two new drop inlets (curb and gutter) will be installed in the driveway/parking area with direct pipe connections to the bioretention feature. The outlets on the upper end of the feature are protected by a small area of riprap.
- For large storms, there will be an outlet structure at the lower end of bioretention feature. Structure will be buffered by new plantings (see last bullet below).
- A new underground drainage line network will carry stormwater device overflow as well as re-directing the existing underground drainage pipe network.
  - Overflow from the bioretention feature will be tied into a new drain line running west and across the rose beds. The drain line then wraps around the west side of the garden arbor and then runs north to connect into the existing 36" pipe exiting the north side of garden. This alignment, coordinated with PRCR arborist staff, is to avoid the critical root zones of trees.
  - The existing 18" drainage line coming up from the Amphitheatre area and the 12" line from Pogue Street (west side) will tie into the new cross garden drain line.
  - The existing 12" line from Pogue Street/Everett Avenue will be diverted short of the basin manhole and reconnect to the existing 24" line north of the basin.



- The existing manhole by the fountain basin will no longer be needed and will be filled and abandoned (surface hatch removed). This will allow for a future paved path around the basin. (Note that this path not part of this project and is currently not funded nor designed.) The existing Garden area drain (12" line) will be abandoned as it is no longer required.
- Construction and tree protection fencing will be installed to protect the public and the critical root zones of existing trees.
- Immediately after construction completion, all roses are to be re-installed in their original locations and the beds aligned to match the existing configuration.
- For the year following construction, the bioretention feature will be planted with native perennials, grasses, and small woody plants appropriate for the Rose Garden aesthetic as well as working within the soil and site conditions of the stormwater feature.
  - Plant selection will be primarily for species considered to the native pollinators.
  - Installation will be performed by PRCR horticultural staff with the intent to integrate the new plants with the existing landscape bed located to the immediate east of the stormwater feature. This will visually create a single, large landscape bed.
  - Since a wide variety of new plants will be installed, all plants will be installed at the best time of year. Therefore, all plants may not be fully installed until a year after end of construction.
  - Note that the plant installation broadens from the grassed swale concept originally described in the 2016 report. The mix of new plantings will provide an additional layer of water quality benefits.

The project was successfully bid in Fall 2019. PRCR has contracted with the low, qualified bidder, Fluvial Solutions, Inc. Construction is planned to begin late February 2020.

#### Pre- and Post-Construction Rose Bed Planning (PRCR staff)

Due to the alignment of the new underground drain line infrastructure, all roses within the construction limits will be removed by PRCR horticultural and gardening staff prior to the start of construction. PRCR has initially consulted with David Pike of Witherspoon Rose Culture on proper methods for rose removal, winter storage, and rose re-planting. PRCR has contracted with Witherspoon Rose Culture for additional consulting and oversight as rose work is performed by PRCR staff. As described by David Pike, the removal and re-installation of the roses, along with new planting bed preparation, will be a chance to help rejuvenate the individual plants. *It should also be noted that David Pike states no roses varieties within the impacted construction area are unique and all varieties are readily available should any of the roses die in this process. David is also figuring that none of the roses are older than 40 years with many more recently installed.*

Rose removal will occur in mid-February. Roses will be carefully dug up and placed into five- or seven-gallon pots (based on root size). All roses will be stored and protected at PRCR Marsh Creek Maintenance Facility. Once construction is completed, roses will be re-installed to new beds matching the existing (historic) bed layout and size. Any rose lost during storage will be replaced by new roses matching the original variety.



### Public Information and Outreach

The design of this project has been overseen by planning, maintenance, and horticultural staff within the PRCR as well as staff within the Office of Raleigh Arts (PRCR), Stormwater Management Division (Quality Improvement Section), and the Raleigh Little Theatre. The project is considered a maintenance project. There will be a public outreach campaign once project permitting is completed and prior to construction bidding.

PRCR Marketing staff worked with the Raleigh Little Theatre to fully inform both the local community and city at large of the project's overall site improvement needs, long-term goals, project design, and construction schedule. Informational presentations were held with the Hillsborough-Wade Citizens Advisory Council and Parks, Recreation and Greenway Advisory Board. Information has been distributed via the PRCR project and Rose Garden website and via press releases prepared by PRCR marketing staff. Informational signage will be posted during construction.

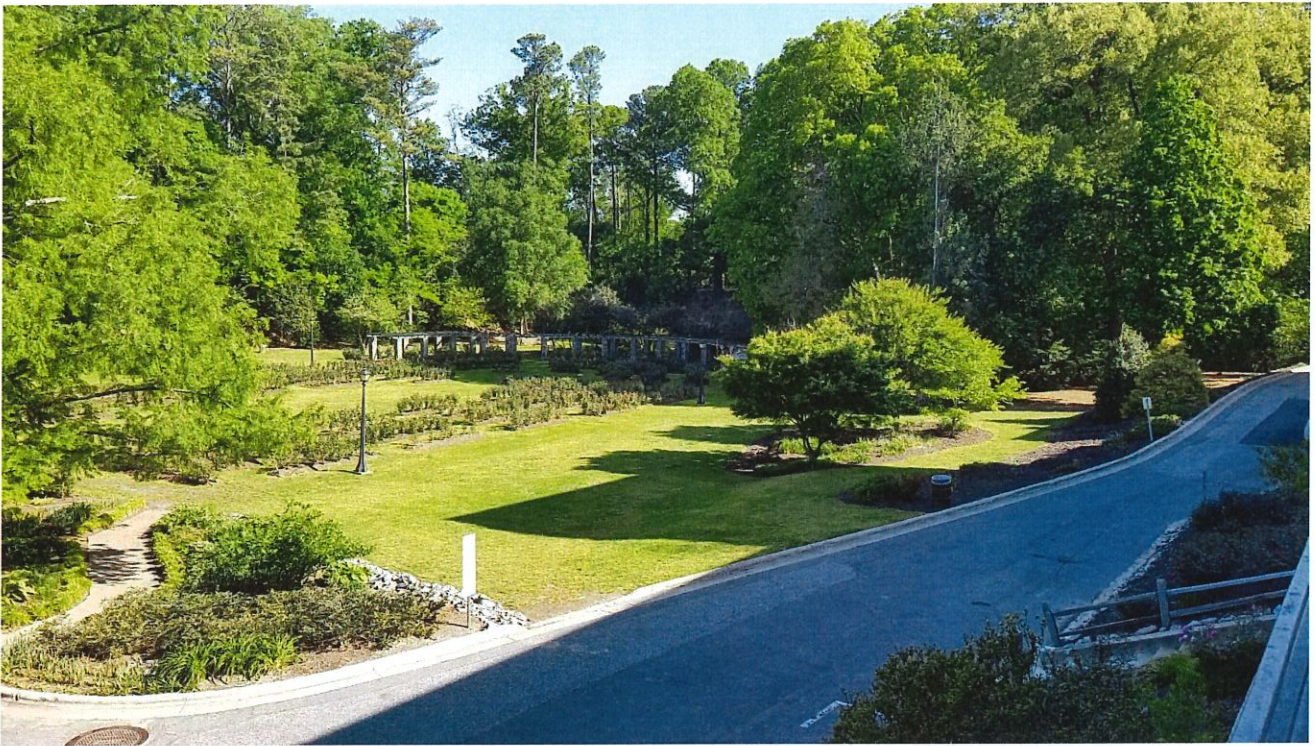
PRCR's intent is for areas of the Rose Garden/ Raleigh Little Theatre campus, outside of the construction limits and staging areas, to remain open to the public during construction operations.

### Attachments

- Raleigh Rose Garden plans (SEPI)
- Site Photographs – Existing Conditions
- City of Raleigh PUMA stormwater utility infrastructure map of Rose Garden



**Raleigh Rose Garden – Site Photographs for COA Application**





**Raleigh Rose Garden – Site Photographs for COA Application**

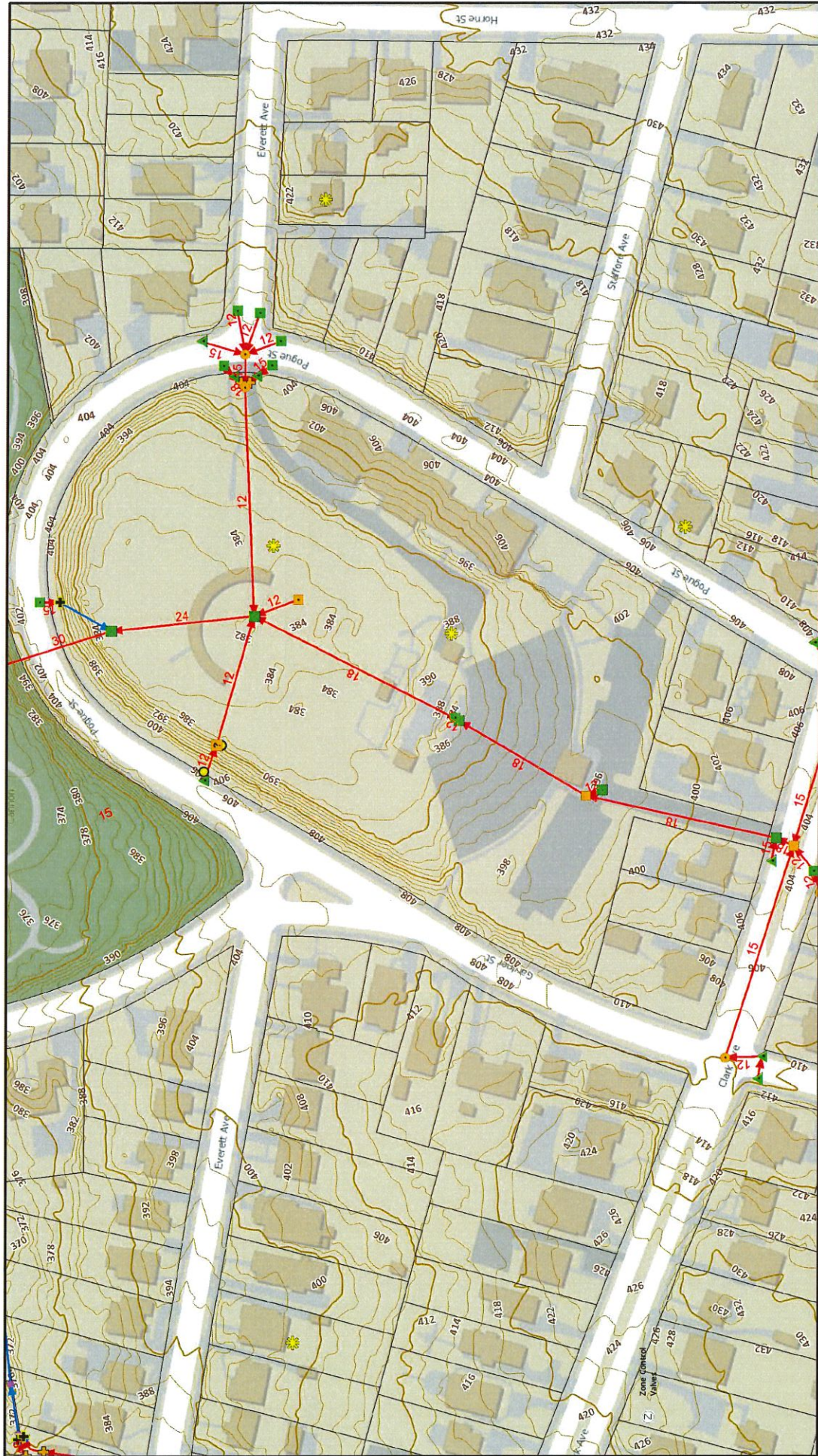




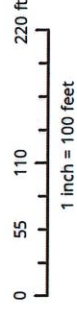
**Raleigh Rose Garden – Site Photographs for COA Application**







## Rose Garden Stormwater Infrastructure



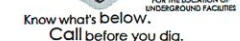
### Disclaimer

IMaps makes every effort to produce and publish the most current and accurate information possible. However, the maps are produced for information purposes, and are NOT surveys. No warranties, expressed or implied, are provided for the data therein, its use, or its interpretation.









THE LOCATION 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.




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RALEIGH ROSE  
GARDEN  
301 Pogue Street  
Raleigh, NC 27607

City of Raleigh  
Parks, Recreation and Cultural  
Resources

Client Contact  
Gary Claiborne, City of Raleigh  
Capital Projects Manager  
222 W. Hargett Street  
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gary.claiborne@raleighnc.gov

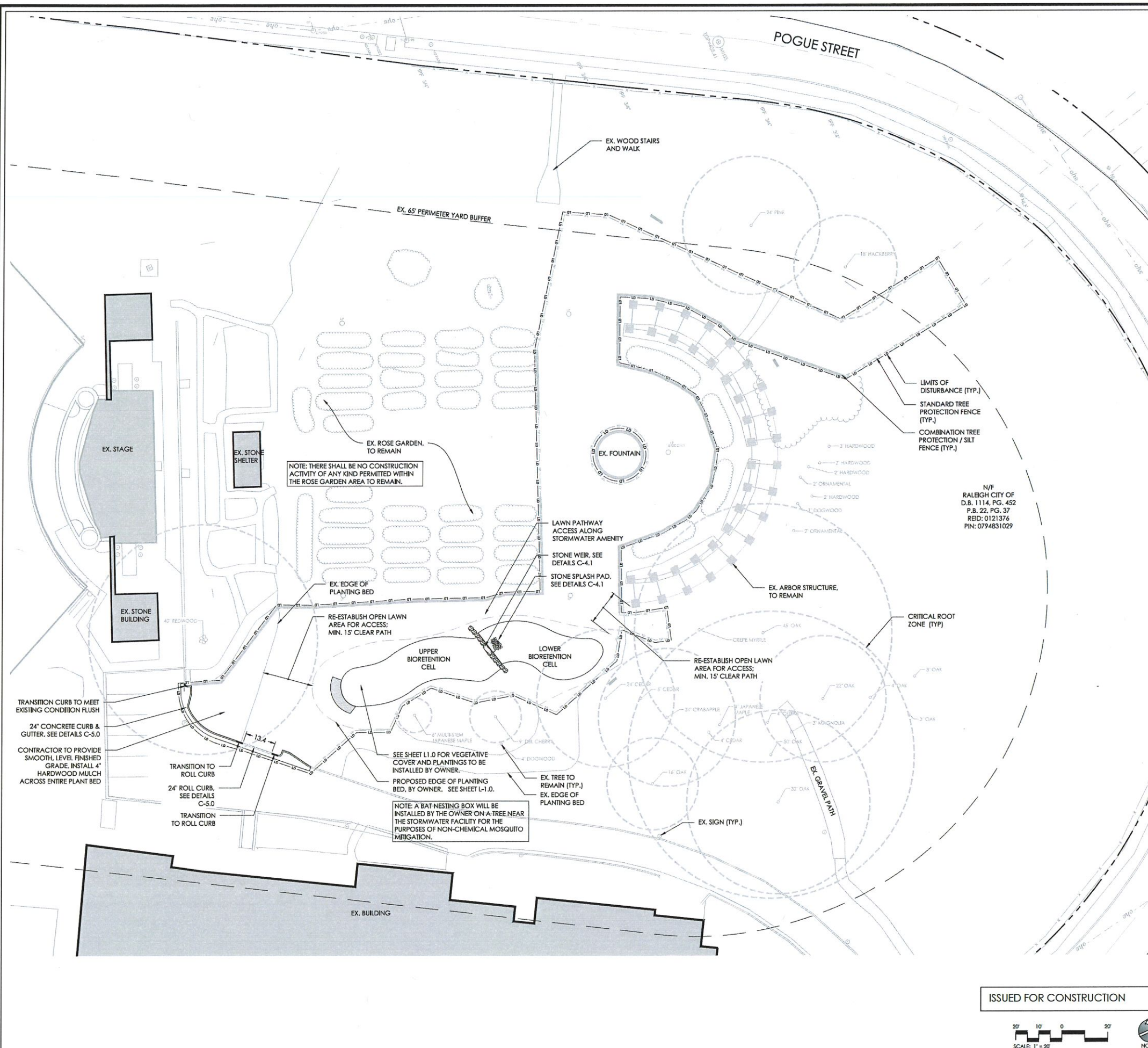
CONSTRUCTION  
DRAWINGS  
Plan # SPR-0122-2019

		DATE
PROJECT:	SE18.185	
ISSUE:	Site Permit Review 1st Submittal	07.15.2019
	Site Permit Review 2nd Submittal	08.22.2019
	Construction Set	09.23.2019
	-	-
	-	-
	-	-
REVISIONS:		
	1st Review Comment Responses	08.22.2019
	-	-
	-	-
	-	-
	-	-
	-	-

PROJ. MGR:	N. YOUNG
DRAWN BY:	N. YOUNG / S. RIVERS
CHECKED BY:	J. WESTMORELAND

## SITE PLAN

C-2.0



ISSUED FOR CONSTRUCTION



**SITE NOTES:**

1. BEFORE YOU DKS, STOP. CALL THE NC ONE-CALL CENTER AT 1-800-432-4949. IT'S THE LAW.  
EXISTING UTILITIES ARE SHOWN FROM THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE UTILITIES BEFORE STARTING CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY [ONE CALL @ 1-800-432-4949] OR INDIVIDUAL UTILITY OWNERS FOR UNDERGROUND LOCATIONS AT LEAST 48 HOURS IN ADVANCE.
2. IF DEPARTURES FROM THE DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED IN WRITING TO THE OWNER FOR APPROVAL. NO DEPARTURES FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE ALLOWED WITHOUT APPROVAL BY THE OWNER AND/OR LANDSCAPE ARCHITECT.
3. THERE SHALL BE NO CONSTRUCTION ACTIVITY OF ANY KIND PERMITTED WITHIN THE ROSE GARDEN TO REMAIN.
4. PRIOR TO BEGINNING ANY WORK OR ESTABLISHING CONSTRUCTION ACCESS FOR THE PROJECT THE CONTRACTOR SHALL CONTACT THE CITY OF RALPH PROJECT MANAGER TO COORDINATE ALL ACTIVITIES FOR CONSTRUCTION.
5. CONTRACTOR TO ENSURE THAT NEW LANDSCAPE AREAS TIE IN SMOOTHLY WITH THE EXISTING UNDISTURBED LANDSCAPE AREAS.
6. ALL DISTURBED AREAS NOT SCHEDULED FOR HARDWOOD MULCH TO BE SEEDED WITH A FESCUE/RYE BLENDED SEED MIXTURE. SEE SPECIFICATIONS FOR DETAILS.

STORMWATER CONTROL MEASURE AMENITY NOTES:

- ## STORMWATER CONTROL MEASURE AMENITY FEATURES:
1. IN ADDITION TO ITS PRIMARY FUNCTION AS A STORMWATER DEVICE, THE PROPOSED BASKET ARMY® SHALL ALSO FUNCTION AS AN AMENITY PER UDO SECTION 7.2.4, THEREBY ELIMINATING THE REQUIREMENT OF SCREENING THE DEVICE FROM ON-SITE OR OFF-SITE VIEWING.
  2. THE FOLLOWING BASIC AMENITY FEATURES ARE PROVIDED IN ACCORDANCE WITH UDO SECTION 7.2.4.b.1.
    - a. INTEGRATION OF THE DEVICE BY ITS PROXIMATE PLACE OF THE FACILITY TO THE PRINCIPAL STRUCTURE, (WHICH AT THIS SITE WOULD BE THE ROSE GARDEN PORCH) AND WITH THE PROVISION OF PEDESTRIAN ACCESS TO THE FACILITY VIA THE EXISTING LAWN PATHWAYS WITHIN THE GARDEN.
    - b. NO FENCE IS PROPOSED.
    - c. PROPOSED ROCK RAY RAP OR OTHER "HARD ARMORING" IS LIMITED TO 10% FOR THE FACILITY, AND THE SLOPE BELOW FLOOD PLANE.
    - d. NON-CHEMICAL MOSQUITO MITIGATION MEASURES WILL BE INSTALLED. THAT NETTING BOX WILL BE INSTALLED BY THE OWNER ON A TREE NEAR THE STORMWATER FACILITY.
  3. THE FOLLOWING SUPPLEMENTARY AMENITY FEATURES FOR A DETENTION (DRY BASIN) ARE PROVIDED IN ACCORDANCE WITH UDO SECTION 7.2.4.b.2.d.
    - a. THE STORMWATER FACILITY DOES NOT CONTAIN WATER ON A PERMANENT BASIS.
    - b. 100% VEGETATIVE COVER CAPABLE OF WITHSTANDING EXTENDED PERIODS OF INUNDATION IS PROVIDED.
    - c. SLOPES ARE SHALLOWER THAN 4:1.
    - d. PEDESTRIAN ACCESS TO THE FACILITY IS AVAILABLE VIA THE EXISTING LAWN PATHWAYS WITHIN THE GARDEN.
    - e. GRADINGS AND SLOPES ARE SHALLOWER THAN 8:1, AND ALLOW THE FACILITY TO BE USED FOR RECREATION PURPOSES.

OTHER NOTES:

1. ALL NEW PLANTINGS IN BIORETENTION CELL WILL BE PROVIDED AND INSTALLED BY PARKS, RECREATION AND CULTURAL RESOURCES (PRCR) STAFF IMMEDIATELY FOLLOWING CONSTRUCTION.
2. PLANTS WILL BE A MIX OF ORNAMENTAL AND NATIVE GRASSES AND PERENNIALS THAT WILL BE INCORPORATED INTO THE EXISTING, ADJACENT LANDSCAPE BED. THE NEW PLANTINGS WILL BE SELECTED TO COMPLEMENT THE EXISTING NON-ROSE PLANTINGS IN THE ROSE GARDEN WHILE ALSO SERVING TO PROVIDE WATER QUALITY BENEFITS.
3. FINISHED CONDITION FOR UPPER & LOWER BIORETENTION CELLS AND FUTURE PLANTING AREAS IS A SMOOTH LEVEL FINISHED GRADE WITH HARDWOOD MULCH INSTALLED TO A 3" DEPTH. PER TECHNICAL SPECIFICATIONS.

PROJECT NOTE:

THIS DEVICE IS A VOLUNTARY, NON-REGULATORY WATER QUALITY SCM AND IS NOT REQUIRED TO MEET NC DEQ'S MINIMUM DESIGN CRITERIA (MDC).

## SITE PERMIT REVIEW APPROVAL

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

PLANS FOR THE PROPOSED USE HAVE BEEN REVIEWED FOR GENERAL COMPLIANCE WITH APPLICABLE CODES. THIS LIMITED REVIEW, AND AUTHORIZATION FOR CONSTRUCTION IS NOT TO BE CONSIDERED TO REPRESENT TOTAL COMPLIANCE WITH ALL LEGAL REQUIREMENTS FOR DEVELOPMENT AND CONSTRUCTION. THE PROPERTY OWNER, DESIGN CONSULTANTS, AND CONTRACTORS ARE EACH RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CITY, STATE AND FEDERAL LAWS. THIS SPECIFIC AUTHORIZATION BELOW IS NOT A PERMIT, NOR SHALL IT BE CONSTRUED TO PERMIT ANY VIOLATION OF CITY, STATE OR FEDERAL LAW. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS.

TRANSPORTATION FIELD SERVICES

PUBLIC UTILITIES

PUBLIC UTILITIES

STORMWATER\_\_\_\_\_

PLANNING / ZONING\_

FIRE \_\_\_\_\_

URBAN FORESTRY\_\_\_\_\_

SITE ACCESSIBILITY \_\_\_\_\_



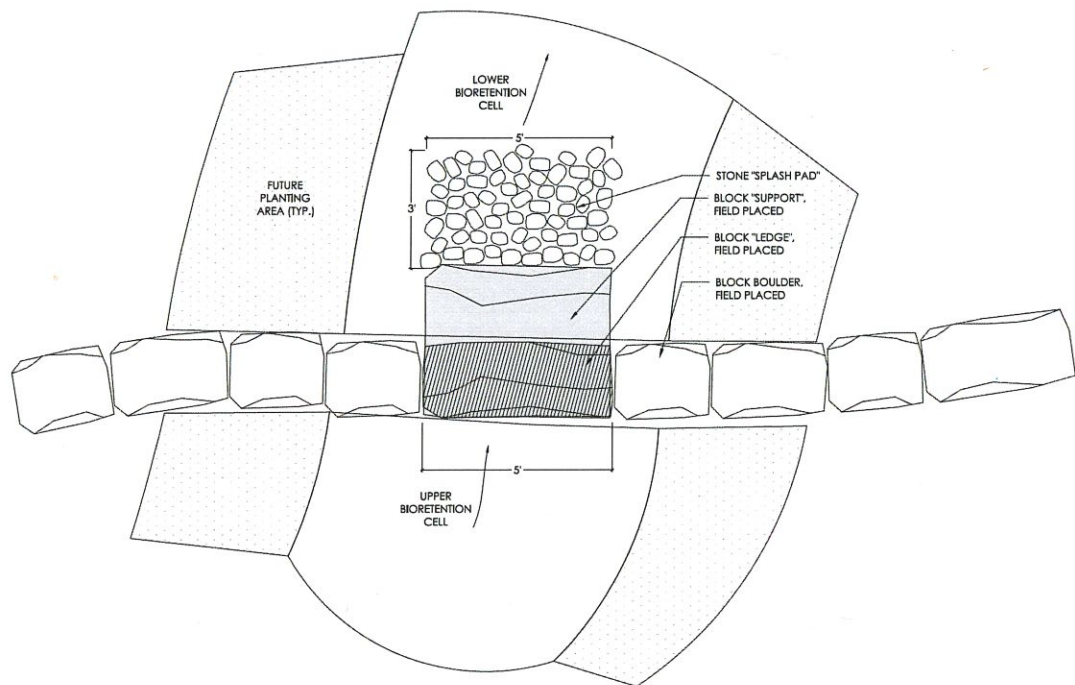
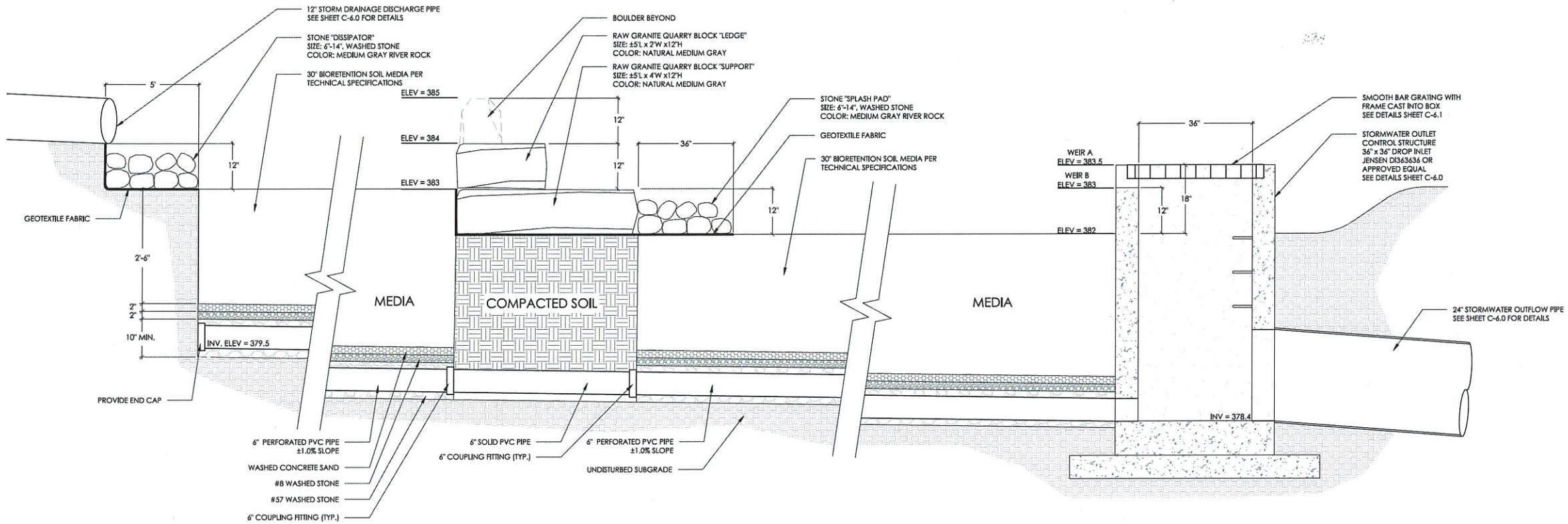




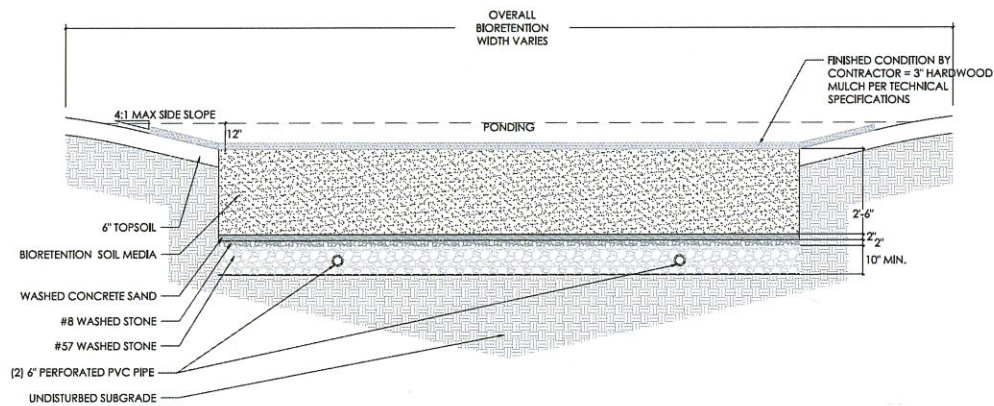
SEPI

1 GLENWOOD AVE, SUITE 400 | RALEIGH, NC 27603  
PHONE | 919.789.997711020 DAVID TAYLOR DR., SUITE 115 | CHARLOTTE, NC 28262  
PHONE | 704.714.48805030 NEW CENTRE DR., SUITE B | WILMINGTON, NC 28403  
PHONE | 910.523.57153644 PUNGO CREEK RD. | PINECREEK, NC 27853  
PHONE | 252.944.6900

sepiinc.com

3 WORKING DAYS  
BEFORE YOU DIG  
FOR THE LOCATION OF  
UNDERGROUND UTILITIESKnow what's below.  
Call before you dig.THE LOCATION 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,  
OR OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.COPYRIGHT © 2019  
SEPI ENGINEERING & CONSTRUCTION, INC.RALEIGH ROSE  
GARDEN  
301 Pogue Street  
Raleigh, NC 27607City of Raleigh  
Parks, Recreation and Cultural  
ResourcesClient Contact  
Gary Claiborne, City of Raleigh  
Capital Projects Manager  
222 W. Hargett Street  
Raleigh, NC 27601  
919-996-2677  
gary.claiborne@raleighnc.govCONSTRUCTION  
DRAWINGS  
Plan # SPR-0122-2019STORMWATER - SECTION 1  
SCALE: NTSWEIR - PLAN VIEW  
SCALE: NTS

3

BIORETENTION CELL DETAIL  
SCALE: NTS

2

ISSUED FOR CONSTRUCTION

## PROJECT NOTE:

THIS DEVICE IS A VOLUNTARY, NON-REGULATORY WATER QUALITY  
SCM AND IS NOT REQUIRED TO MEET NC DEQ'S MINIMUM DESIGN  
CRITERIA (MDC).ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF  
RALEIGH AND NC DOT STANDARDS AND SPECIFICATIONS.SITE PERMIT REVIEW APPROVAL  
CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTIONPLANS FOR THE PROPOSED USE HAVE BEEN REVIEWED FOR GENERAL COMPLIANCE  
WITH APPLICABLE CODES. THIS LIMITED REVIEW, AND AUTHORIZATION FOR  
CONSTRUCTION IS NOT TO BE CONSIDERED TO REPRESENT TOTAL COMPLIANCE  
WITH ALL LEGAL REQUIREMENTS FOR DEVELOPMENT AND CONSTRUCTION. THE  
PROPERTY OWNER, DESIGN CONSULTANTS, AND CONTRACTORS ARE EACH  
RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CITY, STATE AND FEDERAL  
LAWS. THIS SPECIFIC AUTHORIZATION BELOW IS NOT A PERMIT, NOR SHALL IT BE  
CONSTRUED TO PERMIT ANY VIOLATION OF CITY, STATE OR FEDERAL LAW. ALL  
CONSTRUCTION MUST BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL  
RULES AND REGULATIONS.

TRANSPORTATION FIELD SERVICES

PUBLIC UTILITIES

STORMWATER

PLANNING / ZONING

FIRE

URBAN FORESTRY

SITE ACCESSIBILITY

PROJECT: SE18.185

ISSUE: Site Permit Review 1st Submittal

Site Permit Review 2nd Submittal

Construction Set

REVISIONS:

1st Review Comment Responses

2nd Review Comment Responses

3rd Review Comment Responses

4th Review Comment Responses

5th Review Comment Responses

6th Review Comment Responses

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251st Review Comment Responses

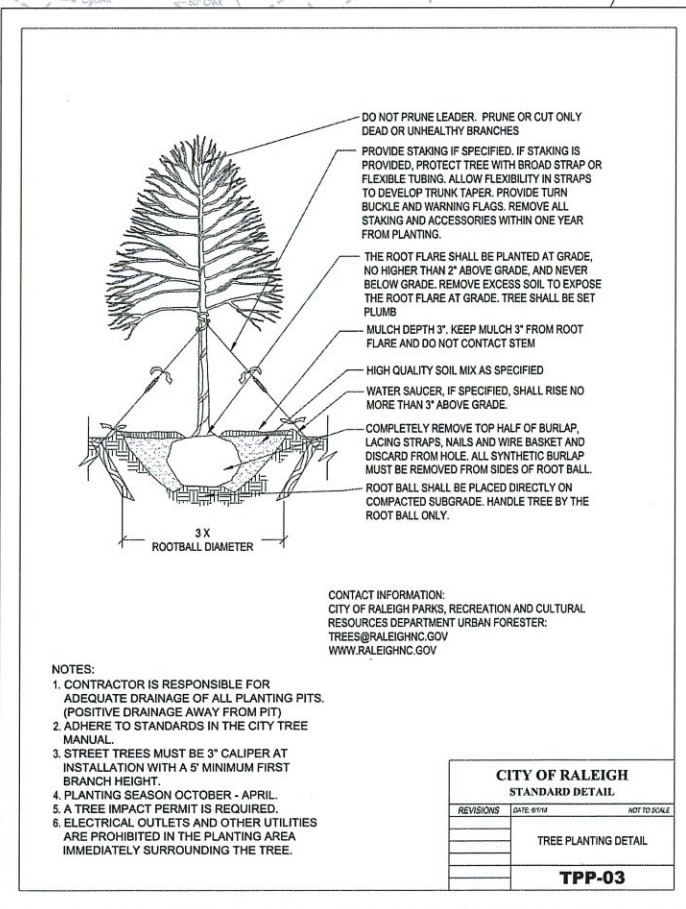
252nd Review Comment Responses

253rd Review Comment Responses

254th Review Comment Responses

255th Review





QTY	SYM	BOTANICAL NAME	COMMON NAME	SIZE*	HEIGHT**	ROOT	REMARKS
1	CV	<i>Chionanthus virginicus</i>	Fringetree	3" CAL.	10'	B&B	SEE SPECS
1550 SY	LAWN	<i>Festuca arundinacea</i>	Tall Fescue Blend			SOD	

**NOTES:**

\* PLANT SIZES ARE THE MINIMUM CALIPER AT INSTALLATION FOR TREES.

\*\* PLANT HEIGHTS LISTED ARE THE MINIMUM HEIGHTS AT INSTALLATION.

<u>LANDSCAPE NOTES:</u>	<u>OTHER NOTES:</u>
<ol style="list-style-type: none"><li>1. ALL TECHNICAL SPECIFICATIONS AND GENERAL CONDITIONS APPLY. ALL GENERAL NOTES AND GENERAL CONSTRUCTION NOTES APPLY.</li><li>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.</li><li>3. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING AND PROPOSED UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.</li><li>4. ALL TREES AND SHRUBS SHALL CONFORM TO THE ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.</li><li>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 GROUND COVER, PERENNIAL AND ANNUAL BEDS</li><li>6. ALL TREES AND SHRUBS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.</li><li>7. LANDSCAPE ARCHITECT OR OWNER SHALL APPROVE ANY ON-SITE PLANT STORAGE AREA.</li><li>8. ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED BY HAND PRIOR TO PLACEMENT AND BACK FILLING WITH PREPARED SOIL. HAND TOOLS ARE NOT TO BE USED TO SCARIFY ROOT BALLS.</li><li>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 FILLED 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.</li><li>10. ALL PLANTING AREAS SHALL BE EDGED WITH SMOOTH, CONTINUOUS CURVES.</li><li>11. ALL PLANT MATERIAL SHALL BE PLANTED AT HEIGHTS AS SPECIFIED IN THE PLANTING DETAILS &amp; PLANT LIST. CONTAINER SIZES PROVIDED FOR REFERENCE ONLY.</li><li>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, WHICHEVER COMES FIRST.</li><li>13. B &amp; B AS LISTED UNDER "ROOT" IN THE PLANT LIST INDICATES BALLED AND BURLAPPED.</li><li>14. ALL PLANT BEDS AND RABED SAUCER RINGS SHALL BE GRADED TO PROVIDE ADEQUATE DRAINAGE AND SHALL BE MULCHED AS SPECIFIED.</li><li>15. ALL MATERIALS, PLANTING AND LANDSCAPE WORK SHALL CONFORM TO THE LOCAL OR COUNTY JURISDICTIONAL AUTHORITY'S STANDARD SPECIFICATIONS AND DETAILS.</li></ol>	<ol style="list-style-type: none"><li>1. ALL NEW PLANTINGS IN TREATMENT SWALE WILL BE PROVIDED AND INSTALLED BY PARKS, RECREATION AND CULTURAL RESOURCES (PRCR) STAFF IMMEDIATELY FOLLOWING CONSTRUCTION.</li><li>2. PLANTS WILL BE A MIX OF ORNAMENTAL AND NATIVE GRASSES AND PERENNIALS THAT WILL BE INCORPORATED INTO THE EXISTING, ADJACENT LANDSCAPE BED. THE NEW PLANTINGS WILL BE SELECTED TO COMPLEMENT THE EXISTING NON-ROSE PLANTINGS IN THE ROSE GARDEN WHILE ALSO SERVING TO PROVIDE WATER QUALITY BENEFITS.</li><li>3. ALL DISTURBED AREAS NOT PLANNED FOR LANDSCAPE PLANTING / BEDS ARE TO BE SOEDED.</li><li>4. PLANTING DESIGN OF BIORETENTION CELL (ZONES 1 -10) PROVIDED BY CITY OF RALEIGH PRCR STAFF.</li></ol>
<div style="display: flex; justify-content: space-between;"><div style="width: 45%;"><p><u>PROJECT NOTE:</u></p><p>THIS DEVICE IS A VOLUNTARY, NON-REGULATORY WATER QUALITY SCM AND IS NOT REQUIRED TO MEET NC DEQ'S MINIMUM DESIGN CRITERIA (MDC).</p></div><div style="width: 45%;"><p><u>ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF RALEIGH AND NC DOT STANDARDS AND SPECIFICATIONS.</u></p></div></div>	
<p><u>SITE PERMIT REVIEW APPROVAL</u></p> <p><u>CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION</u></p> <p>PLANS FOR THE PROPOSED USE HAVE BEEN REVIEWED FOR GENERAL COMPLIANCE WITH APPLICABLE CODES. THIS LIMITED REVIEW, AND AUTHORIZATION FOR CONSTRUCTION IS NOT TO BE CONSIDERED TO REPRESENT TOTAL COMPLIANCE WITH ALL LEGAL REQUIREMENTS FOR DEVELOPMENT AND CONSTRUCTION. THE PROPERTY OWNER, DESIGN CONSULTANTS, AND CONTRACTORS ARE EACH RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CITY, STATE AND FEDERAL LAWS. THIS SPECIFIC AUTHORIZATION BELOW IS NOT A PERMIT, NOR SHALL IT BE CONSTRUED TO PERMIT ANY VIOLATION OF CITY, STATE OR FEDERAL LAW. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"><div style="width: 45%;"><p><u>TRANSPORTATION FIELD SERVICES</u></p><p><u>PUBLIC UTILITIES</u></p><p><u>STORMWATER</u></p><p><u>PLANNING / ZONING</u></p><p><u>FIRE</u></p><p><u>URBAN FORESTRY</u></p><p><u>SITE ACCESSIBILITY</u></p></div><div style="width: 45%;"></div></div>	
<div style="display: flex; align-items: center; justify-content: space-between;"><div style="width: 45%; text-align: center;"><p><u>ISSUES FOR CONSTRUCTION</u></p><p>SCALE: 1" = 20'</p></div><div style="width: 45%; text-align: center;"><p>NORTH</p></div></div>	

# SEPI

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PHONE | 704.714.4880

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

3644 PUNGO CREEK RD. | PINECOTT, NC 27853  
PHONE | 252.964.6900

seplinc.com

**3 WORKING DAYS  
BEFORE YOU DIG**  
FOR THE LOCATION OF  
UNDERGROUND FACILITIES

**Know what's below.  
Call before you dig.**

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  
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## RALEIGH ROSE GARDEN

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City of Raleigh  
Parks, Recreation and Cultural  
Resources

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Capital Projects Manager  
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919-996-2677  
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## CONSTRUCTION DRAWINGS

Plan # SPR-0122-2019

PROJECT:	DATE
ISSUE: SE16.185	
Site Permit Review 1st Submittal	07.15.2019
Site Permit Review 2nd Submittal	08.22.2019
Construction Set	09.23.2019
-	-
-	-

REVISIONS:	
△	1st Review Comment Responses 08.22.2019
-	-
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-	-

PROJ. MGR:	N. YOUNG
DRAWN BY:	N. YOUNG / S. RIVERS
CHECKED BY:	J. WESTMORELAND

## LANDSCAPE PLAN

# L-1.0