



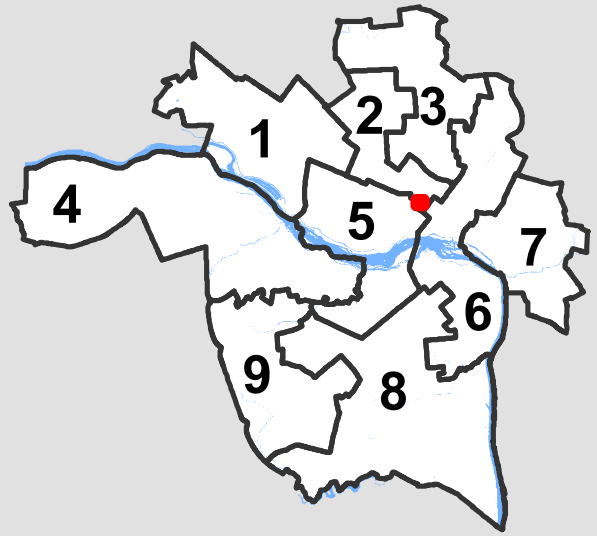
City of Richmond Department of Planning & Development Review

Location, Character, and Extent

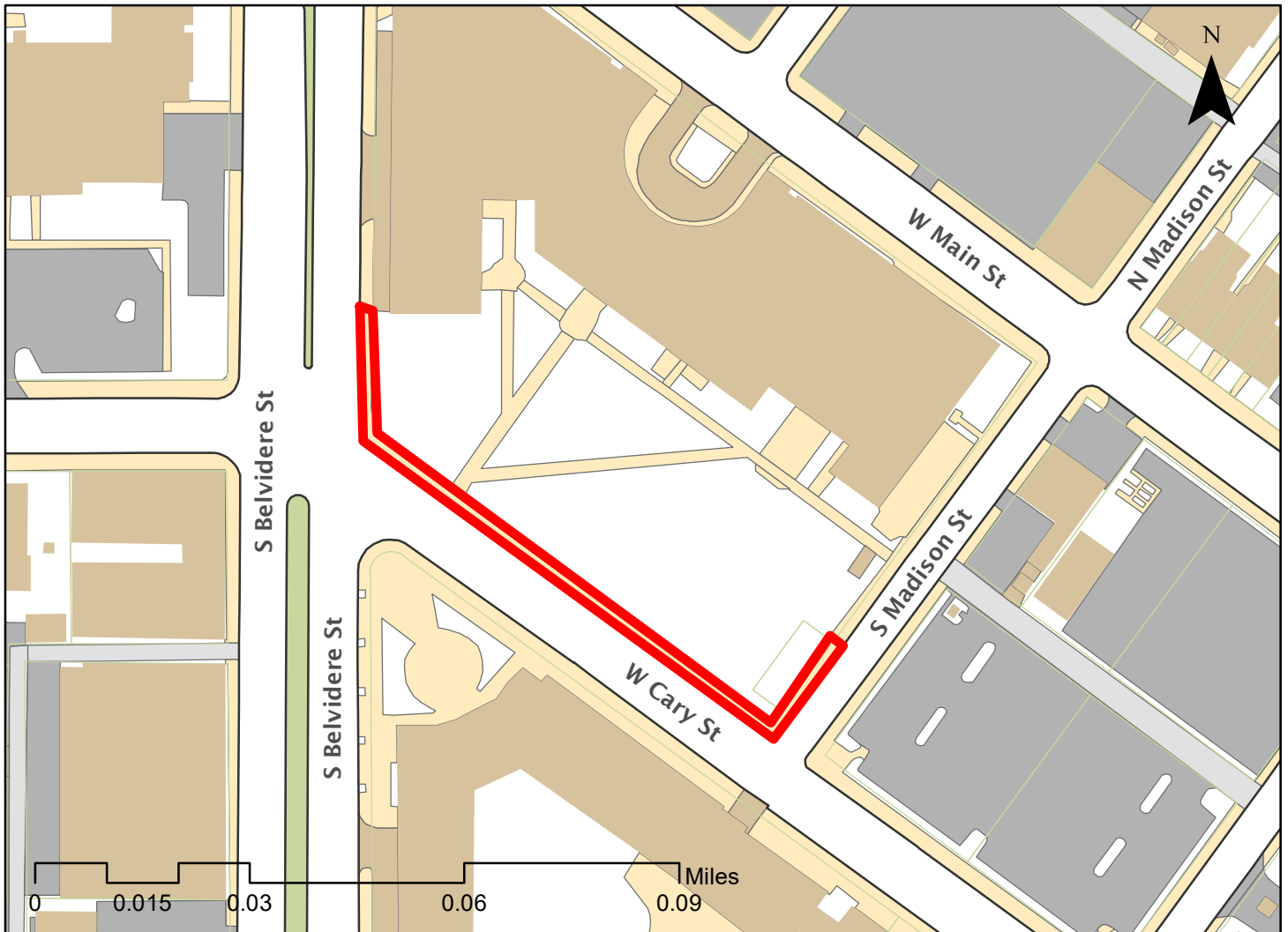
LOCATION: 98 W. Broad St.

COUNCIL DISTRICT: 2

PROPOSAL: Review of streetscape encroachments into the City right-of-way along W. Cary St. between S. Belvidere and S. Madison Streets.



*For questions, please contact Josh Son
at 646-3741 or joshua.son@richmondgov.com*





Application for URBAN DESIGN COMMITTEE Review

Department of Planning and Development Review
Planning & Preservation Division
900 E. Broad Street, Room 510
Richmond, Virginia 23219
(804) 646-6335

<http://www.richmondgov.com/CommitteeUrbanDesign>

Application Type

- Addition/Alteration to Existing Structure
 New Construction
 Streetscape
 Site Amenity

- Encroachment
 Master Plan
 Sign
 Other

Review Type

- Conceptual
 Final

Project Name: VCU School of Engineering - Engineering Research Building (ERB)

Project Address: 601 W Main Street Richmond, VA 23220

Brief Project Description (this is not a replacement for the required detailed narrative) : _____

This is a streetscape project to include a sidewalk extension, brick sidewalks, street trees, ornamental lighting and bollards.

Applicant Information

(on all applications other than encroachments, a City agency representative must be the applicant)

Name: Keith Van Inwegen Email: kvaninwegen@vcu.edu

City Agency: VCU Planning and Design Phone: (804) 828-1204

Address: 700 West Grace Street Suite 1500 Richmond, VA 23284

Main Contact (if different from Applicant): _____

Company: _____ Phone: _____

Email: _____

Submittal Deadlines

All applications and support materials must be filed no later than 21 days prior to the scheduled meeting of the Urban Design Committee (UDC). Please see the schedule on page 3 as actual deadlines are adjusted due to City holidays. **Late or incomplete submissions will be deferred to the next meeting.**

Filing

Applications can be mailed or delivered to the attention of "Urban Design Committee" at the address listed at the top of this page. **It is important that the applicant discuss the proposal with appropriate City agencies, Zoning Administration staff, and area civic associations and residents prior to filing the application with the UDC.**

UDC Background

The UDC is a ten member committee created by City Council in 1968 whose purpose is to advise the City Planning Commission on the design of projects on City property or right-of-way. The UDC provides advice of an aesthetic nature in connection with the performance of the duties of the Commission under Sections 17.05, 17.06 and 17.07 of the City Charter. The UDC also advises the Department of Public Works in regards to private encroachments in the public right-of-way.



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Submission Requirements

- 10 copies of the application cover sheet and all support materials (see below), unless the application is for an encroachment, in which case only 6 copies are required. Plan sheets should be 11" x 17", folded to 8 1/2" x 11". If it is not possible to scale plans to these dimensions, please provide one set of larger, scaled plans.
- An electronic copy (PDF preferred) of all application materials, which can be burned to disc, emailed, or delivered by FTP.

All applications must include the attached cover sheet and the following support materials, as applicable to the project:

For Conceptual Review

- A detailed project narrative which includes the following: purpose of the project, project background, project budget and funding sources, description of construction program and estimated construction start date (description should also provide information on the surrounding area to provide context).
- A site plan for the project indicating site characteristics which include: building footprints, parking areas, pedestrian routes, recreation areas, open areas and areas of future expansion.
- A set of floor plans and elevations, as detailed as possible.
- A landscaping plan which shows the general location and character of plant materials and notes any existing tree to be removed.

For Final Review

- A detailed project narrative which includes the following: purpose of the project, project background, project budget and funding sources, description of construction program and estimated construction start date (description should also provide information on the surrounding area to provide context).
- A site plan for the project indicating site characteristics which include: building footprints, parking areas, pedestrian routes, recreation areas, open areas and areas of future expansion.
- A set of floor plans and elevations, as detailed as possible.
- A landscaping plan that includes a complete plant schedule, the precise location of all plant materials, and a landscape maintenance analysis. The plant schedule must show number, size and type of each planting proposed. If existing trees are to be removed, their size, type and location must be noted on the landscape plan.
- The location of all lighting units should be noted on a site plan, including wall-mounted, site and parking lot lighting. Other site details, such as benches, trash containers and special paving materials, should also be located. Include specification sheets for each item.
- Samples of all proposed exterior building materials, including but not limited to brick, mortar, shingles, siding, glass, paint and stain colors. When an actual sample cannot be provided, a product information sheet that shows the item or a photo of an existing item may be substituted.

Review and Processing

Once an application is received, it is reviewed by staff, who compiles a report that is sent to the UDC. A copy of the report and the meeting agenda will be sent to the applicant prior to the meeting. The applicant or a representative should be present at the UDC meeting or the application may be deferred to the next regularly scheduled meeting. It is also strongly suggested that a representative of the City Agency which will have final responsibility for the item be present at the meeting (if the applicant and the representative are not the same). Once the UDC recommends action on the application, it is automatically placed on the agenda for the next City Planning Commission (CPC) meeting. An exception to this is encroachment applications, recommendations for which are forwarded to the Department of Public Works. The applicant or a representative must be present at the CPC meeting or the application may be deferred to the next regularly scheduled meeting.

CITY OF RICHMOND URBAN DESIGN COMMITTEE (UDC)

MEETING SCHEDULE

UDC Meetings	UDC Submission Deadlines	Anticipated Date of Planning Commission Following the UDC Meeting
December 7, 2017	November 9, 2017	December 18, 2017
January 4, 2018	December 7, 2017**	January 16, 2018 ¹
February 8, 2018	January 18, 2018	February 20, 2018 ²
March 8, 2018	February 15, 2018	March 19, 2018
April 5, 2018	March 15, 2018	April 16, 2018
May 10, 2018	April 19, 2018	May 21, 2018
June 7, 2018	May 17, 2018	June 18, 2018
July 5, 2018	June 14, 2018	July 16, 2018
August 9, 2018	July 19, 2018	August 20, 2018 ³
September 6, 2018	August 16, 2018	September 17, 2018
October 4, 2018	September 13, 2018	October 15, 2018
November 8, 2018	October 18, 2018	November 19, 2018
December 6, 2018	November 15, 2018*	December 17, 2018 ⁴

¹ Monday, January 15, 2018 is a City of Richmond Holiday.

² Monday, February 19, 2018 is a City of Richmond Holiday.

³ This August CPC Meeting may be canceled. If so, Planning Commission hearing would be Tuesday, September 4, 2018.

⁴ This December CPC Meeting may be canceled. If so, Planning Commission hearing would be Monday, January 7, 2019.

** Moved forward to account for Winter Holiday Schedule

The Richmond Urban Design Committee (UDC) is a ten member advisory committee created by City Council in 1968. Its purpose is to advise the City Planning Commission on the design of City projects. The UDC reviews projects for appropriateness in "location, character and extent" and for consistency with the City's Master Plan and forwards recommendations to the Planning Commission. The UDC also advises the Department of Public Works in regards to private encroachments in the public right-of-way.

Regular meetings are scheduled for the Thursday after the first Monday of each month at 10:00 a.m. in the 5th floor conference room of City Hall. Special meetings are scheduled as needed.

For additional information, please contact the Planning and Preservation Division staff at (804) 646-3741 or joshua.son@richmondgov.com.



VCU

**SCHOOL OF ENGINEERING
ENGINEERING RESEARCHING BUILDING
URBAN DESIGN COMMITTEE SUBMISSION**

march 8th, 2018

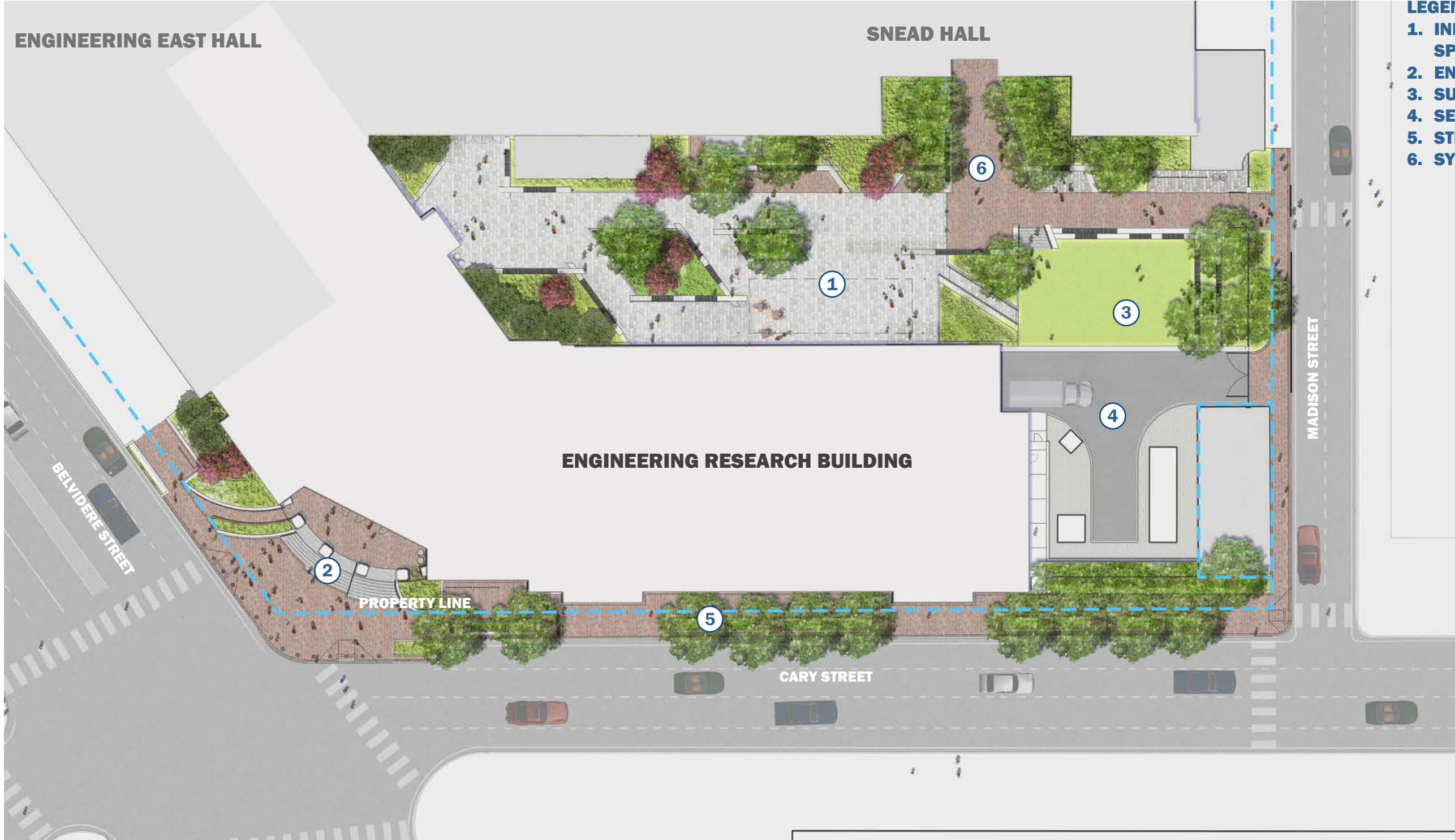
SITE CONTEXT

Virginia Commonwealth University is planning a new Engineering Research Building (ERB). The building will be located on the Monroe Park Campus adjacent to the current School of Engineering (SoEgr) buildings. Due to successful expansion of the School to date and planned growth in research funding, the need for the new space is immediate. The current SoEgr facilities will reach maximum use no later than 2017; therefore, an additional adjacent facility is critical to enable the school to meet the University's Master Plan objectives. The primary focus of the ERB will be research and economic development.

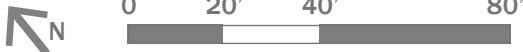
The project site is bound by Belvidere Street, Cary Street and Madison Street. At the corner of Belvidere and Cary Street a curb bump out will be added for pedestrian safety. The streetscape will utilize the VCU campus standards to create a unified look that ties the campus together. The VCU campus standard brick paver will be used along the sidewalks and leading into the courtyard. Where possible the light fixtures will be protected during construction. Along Cary Street, the streetlights will be replaced with the VCU campus standard spaced between the new tree trenches to provide adequate light coverage and prevent blockage from trees. The cobra head light at the corner of Belvidere and Cary Street will be moved out to the edge of the new curb bump out. The street trees along Cary Street are located too close to the construction zone for the new building and will have to be replaced. New tree trenches will be installed along the street to give the street tree root zone room to expand under the pavement. The tree trenches have been strategically placed along Cary Street to reduce dangerous mid-block crossing by students. The selected native street trees have been selected for their ability to thrive in tough conditions. A combination of grasses and irises will provide a "green" mulch cover in the tree trenches.



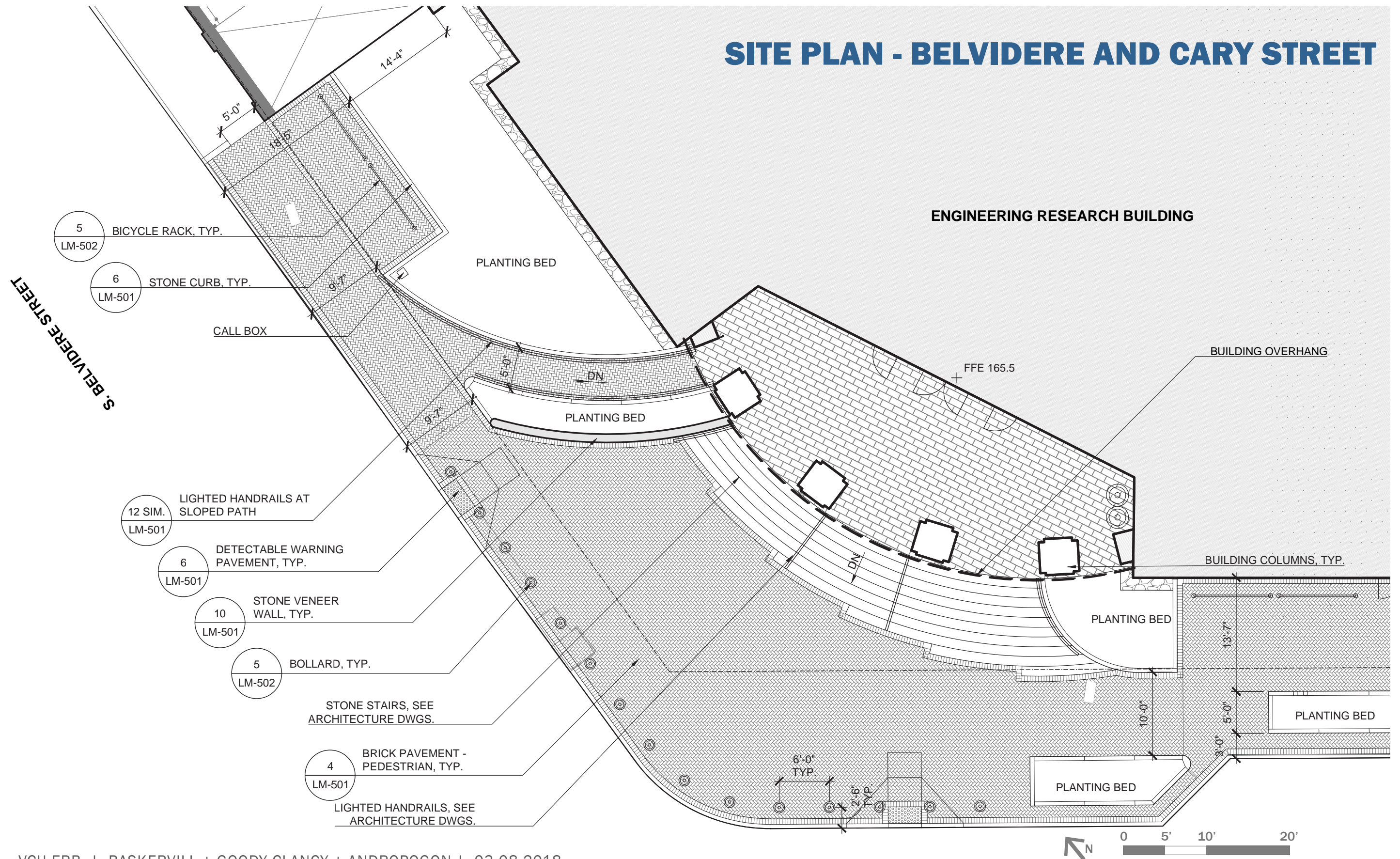
SITE PLAN - OVERVIEW



- LEGEND**
- 1. INNOVATION/MAKER SPACE PLAZA
 - 2. ENTRY PLAZA
 - 3. SUNKEN PLAZA
 - 4. SERVICE COURT
 - 5. STREETScape
 - 6. SYNERGY PLAZA

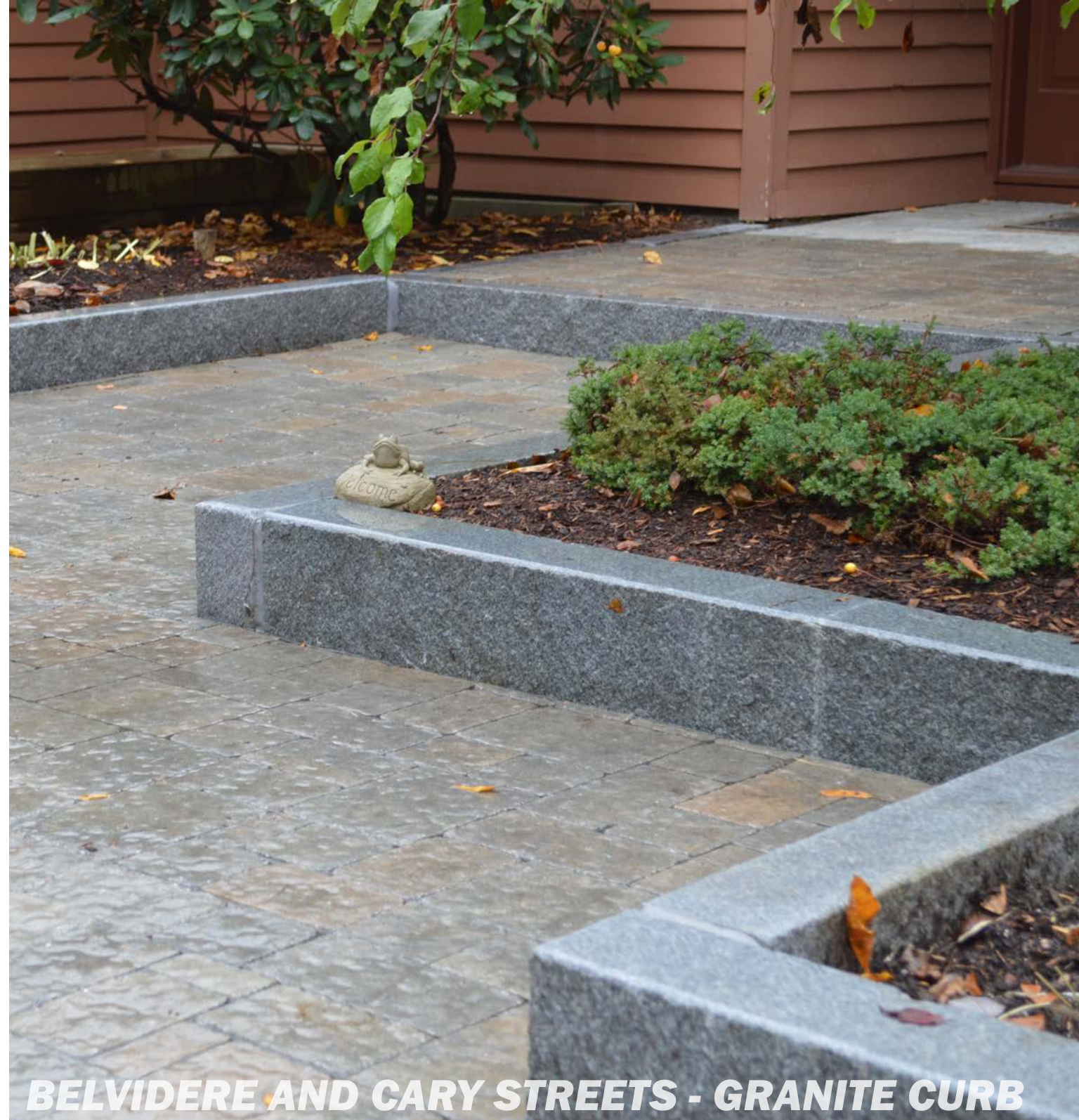


SITE PLAN - BELVIDERE AND CARY STREET





SIDEWALKS - BRICK HERRINGBONE

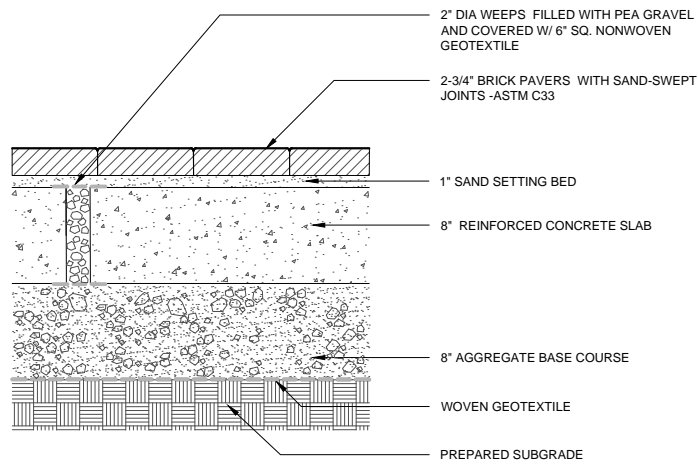


BELVIDERE AND CARY STREETS - GRANITE CURB



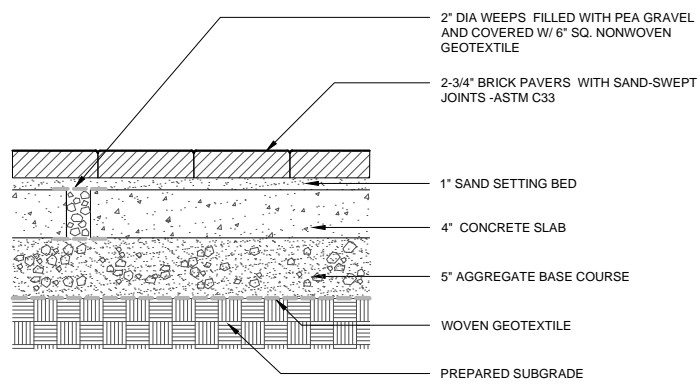
ENTRANCE - GRANITE STAIRS

SITE MATERIALS



SECTION 3
LM-501
BRICK PAVEMENT-VEHICULAR
1 1/2" = 1'-0"

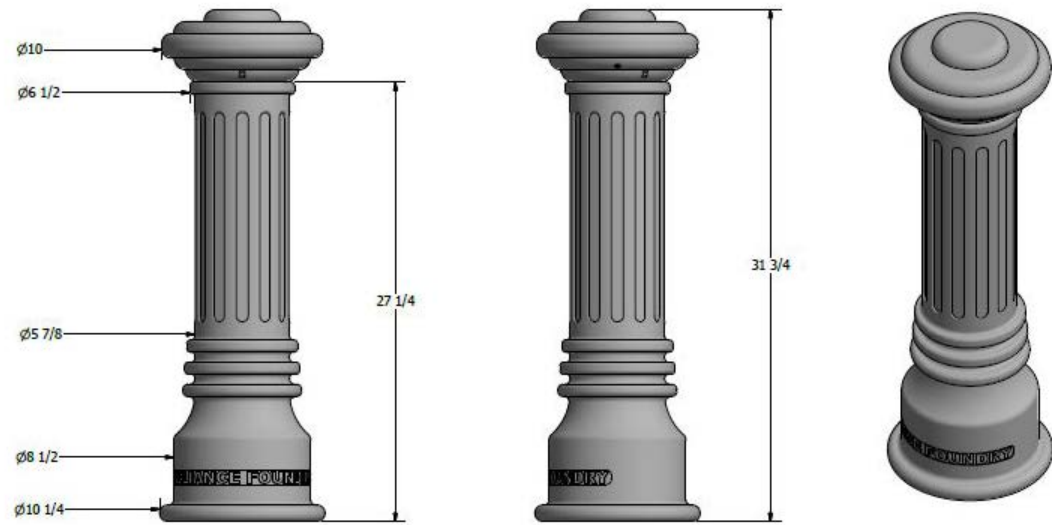
NOTE:
1. LAYOUT BRICK COURSES TO ALLOW FULL WIDTH COURSES



SECTION 4
LM-501
BRICK PAVEMENT-PEDESTRIAN
1 1/2" = 1'-0"

NOTE:
1. LAYOUT BRICK COURSES TO ALLOW FULL WIDTH COURSES

Bollard R-7591



Installation Sample with 5/16" Chain Accessories

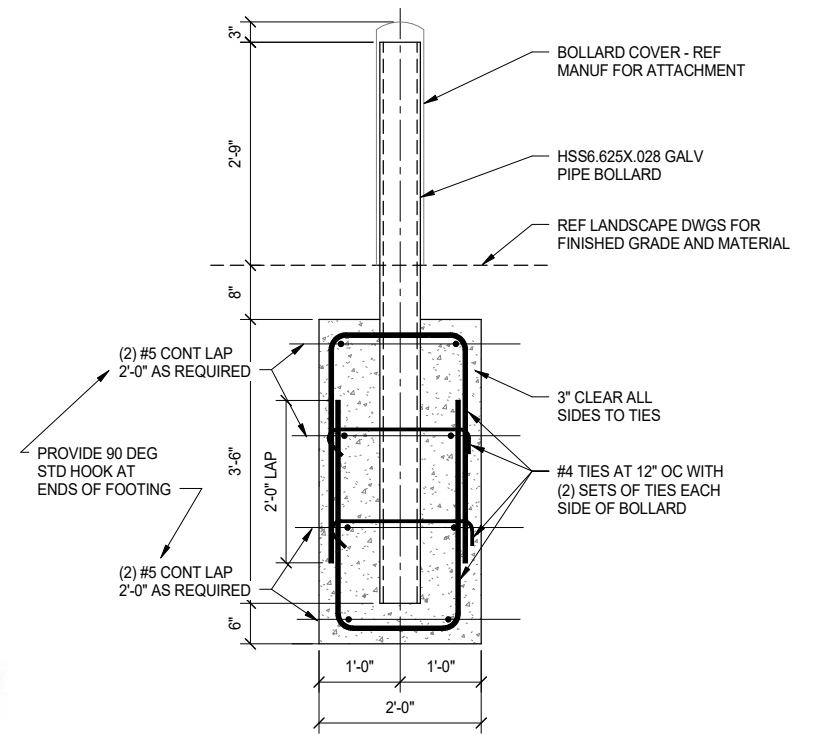


Optional Accessories:

- Chain Eye
- Quick link
- Chain (5/16")
- Padlock, Brass (1 3/4")
- Padlock, Marine Grade (2")

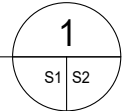
See Reliance Foundry's optional accessories at:
www.reliance-foundry.com/bollard/accessories-bollards

Bollard Footing Condition will be continuous, similar to this design



BOLLARD SECTION

SECTION 1
3/4" = 1'-0"

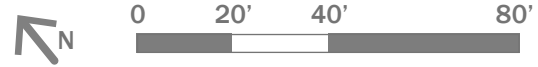


SIDEWALK DETAILS

SITE LIGHTING - OVERVIEW



- LEGEND**
- PROPOSED E1 LIGHT
 - EXISTING E1 LIGHT



SITE LIGHTING - CUT SHEETS

Submitted by Lighting Virginia-Central		Catalog Number: WIN40/AF/36NB-80/3K/UNV/DIR5/PT/BBT		Type: MP1	
Job Name: MONROE PARK - PROPOSED SITE FIXTURES - REV. 10/12/16		Notes:		LV - CENTRAL16-21465	

BEACON design performance technology www.beaconproducts.com		rev. 02.11.2015 WIN40 (LED) 40" Windsor Luminaire Max Weight: 50.0 lbs Max EPA: 2.65 sq ft	
--------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------	--

Sample	WIN40	AC	24NB-55	3K	UNV	DIR5	PEC	PT	GENXX	SPK	BBT
Ordering	WIN40	AF	36NB-80	3K	UNV	DIR5					BBT
	A	B	C	D	E	F	G	H	I	J	K

DETAILS	
MOUNTING OPTIONS	

A. MODEL	G. ELECTRICAL OPTIONS
WIN40 Windsor 40"	PEC photocell, button
B. LENS OPTIONS	H. CONTROL OPTIONS
AC acrylic, clear	GENI-XX energem ¹
AF acrylic, frosted	H. MOUNTING OPTIONS
AS acrylic, seeded	PT post top
AW acrylic, white	PM pendant mount ²
PC polycarbonate, clear	J. STYLE OPTIONS
PF polycarbonate, frosted	SPK spikes
C. ENGINE - WATTS	K. COLOR
24NB-55 55 Watts - LED array	BBT basic black textured
36NB-80 80 Watts - LED array	BMT black matte textured
48NB-110 110 Watts - LED array	WHT white textured
60NB-136 136 Watts - LED array	MBT metallic bronze textured
D. CCT - COLOR TEMP	BRZ bronze textured
3K 3000K	DBT dark bronze textured
4K 4000K	GYS gray smooth
5K 5000K (std.)	DPS dark platinum smooth
E. VOLTAGE	GNT green textured
UNV 120-277V	MST metallic silver textured
347 347V	MTT metallic titanium textured
480 480V	OWI old world iron
F. OPTICS	RAL
DIR2 type II	
DIR3 type III	
DIR4 type IV	
DIR5 type V	

¹ When ordering Energem, specify the routine setting code (example GENI-04). See Energem brochure and instructions for setting table and options. Not available with sensor options.
² consult factory

2041 58th Avenue/Circle East Bradenton, FL 34203 Phone: (800) 345-4928 Fax: (941) 751-5535 ORDERING

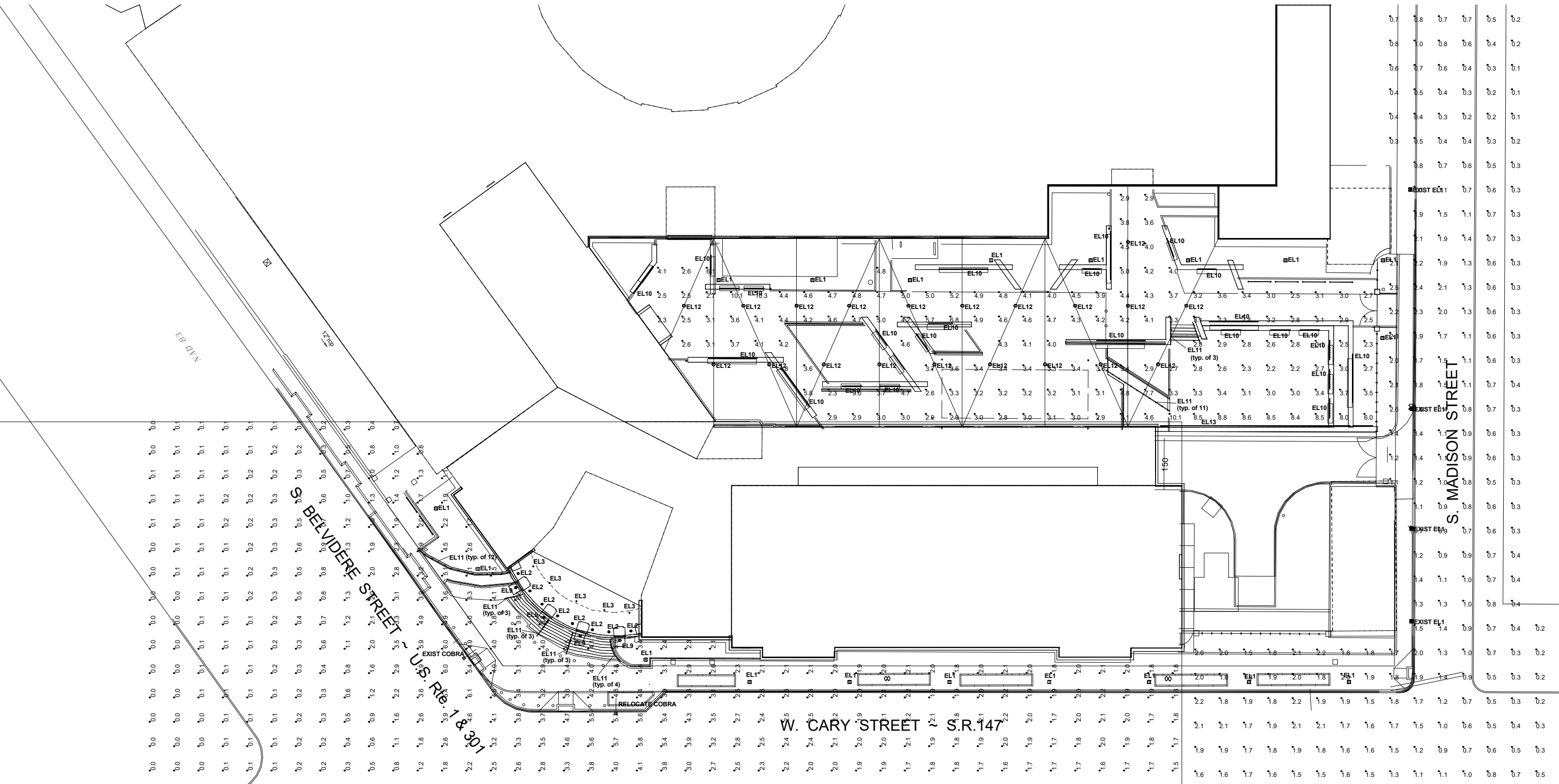


Light Source: LED
 Color: Black
 Pole Height: 14' tall, tapered shaft
 Pole Material: Aluminum
 Manufacturer: Beacon



EL 1

SITE LIGHTING - BELVIDERE AND CARY STREET



CANOPY TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME
CC	14	Carpinus caroliniana	American hornbeam
LS	6	Nyssa sylvatica	Black Tupelo
ST	9	Quercus coccinea	Scarlet Oak

EVERGREEN TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME
MV	14	Magnolia virginiana	Sweetbay Magnolia

UNDERSTORY TREES

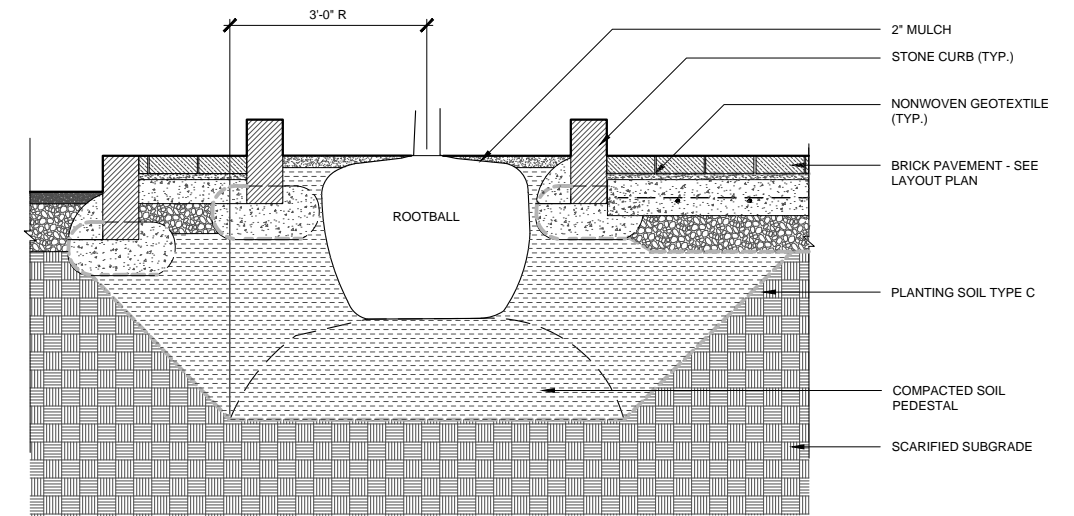
KEY	QTY	BOTANICAL NAME	COMMON NAME
CF	6	Cornus florida 'Cherokee Princess'	Cherokee Princess dogwood
LI	13	Lagerstroemia indica	Crape myrtle

SHRUBS

KEY	QTY	BOTANICAL NAME	COMMON NAME
CO	19	Cephalanthus occidentalis	Buttonbush
HQ	73	Hydrangea quercifolia 'Snow Queen'	Snow Queen Oakleaf Hydrangea
IG	61	Ilex glabra 'Shamrock'	Shamrock Inkberry
IV	41	Itea virginica 'Henry's Garnet'	Henry's Garnet Virginia Sweetspire
LA	13	Leucothoe axillaris 'Compacta'	Compact Leucothoe
SA	28	Styrax americanus	Snowbell
VA	6	Viburnum acerifolium	Mapleleaf viburnum
VC	16	Vaccinium corymbosum	Highbush blueberry

HERBACEOUS PERENNIALS

KEY	QTY	BOTANICAL NAME	COMMON NAME
cs	2,103	Carex stricta	Tussock sedge
cl	266	Coreopsis lanceolata	Lanceleaf coreopsis
ep	515	Echinacea purpurea	Eastern purple coneflower
ec	2022	Euphorbia corollata	Flowering spurge
iv	1438	Iris virginiana	Virginia Iris
le	894	Liatris elegans	Pink-scle blazing star
mf	1318	Monarda fistulosa	Beebalm
pa	573	Polystichum acrostichoides	Christmas fern
pf	1516	Pycnanthemum flexuosum	Appalachian mountain mint
rh	675	Rudbeckia hirta	Black-eyed Susan
sh	1168	Sporobolus heterolepis	Prairie dropseed
sn	872	Symphotrichum novae-angliae	New England Aster



TREE TRENCH DETAIL

PLANT SCHEDULE

ENGINEERING EAST HALL

SNEAD HALL

ENGINEERING RESEARCH BUILDING

S. BELVIDERE STREET

S. MADISON STREET

W. CARY STREET

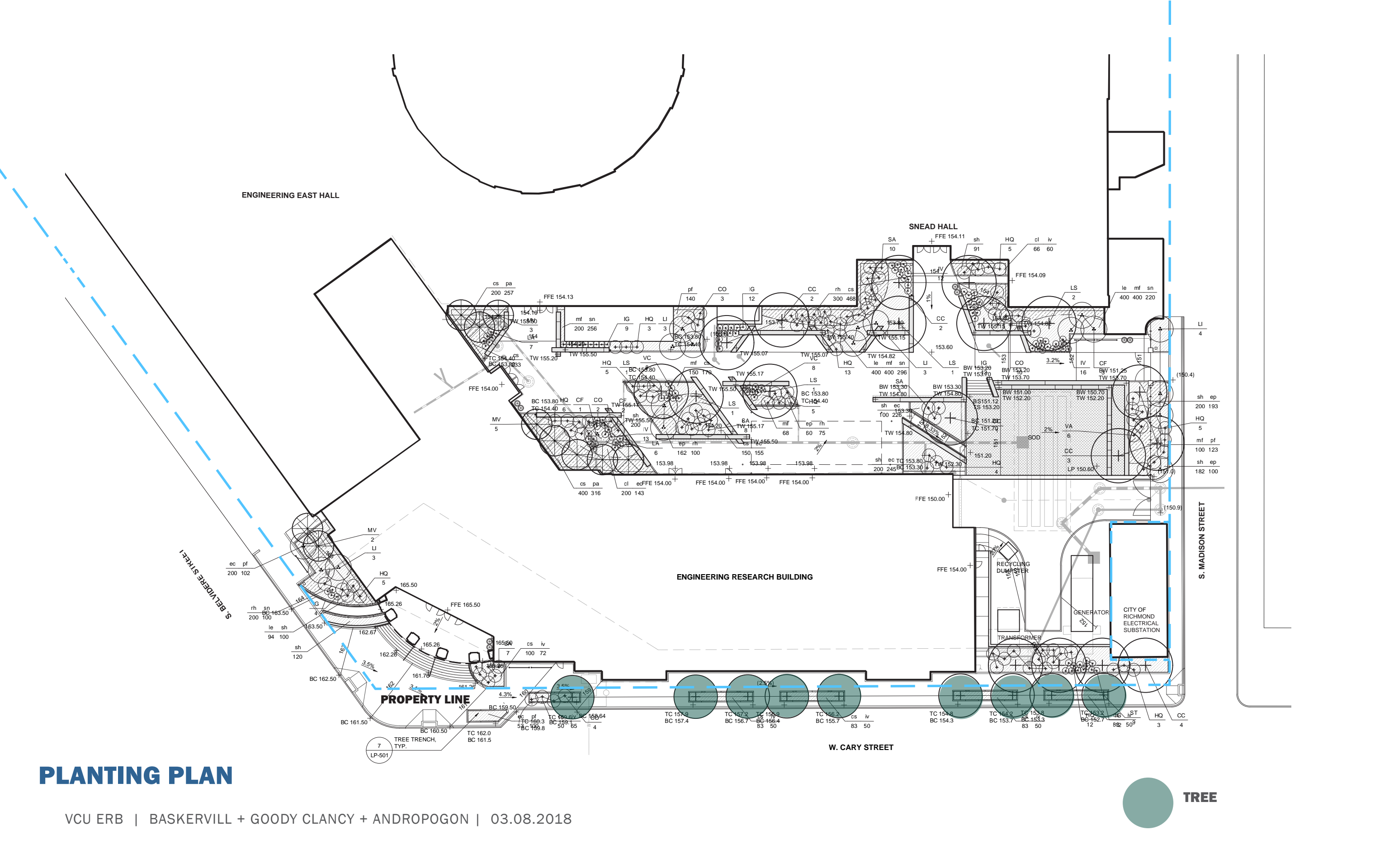
PROPERTY LINE

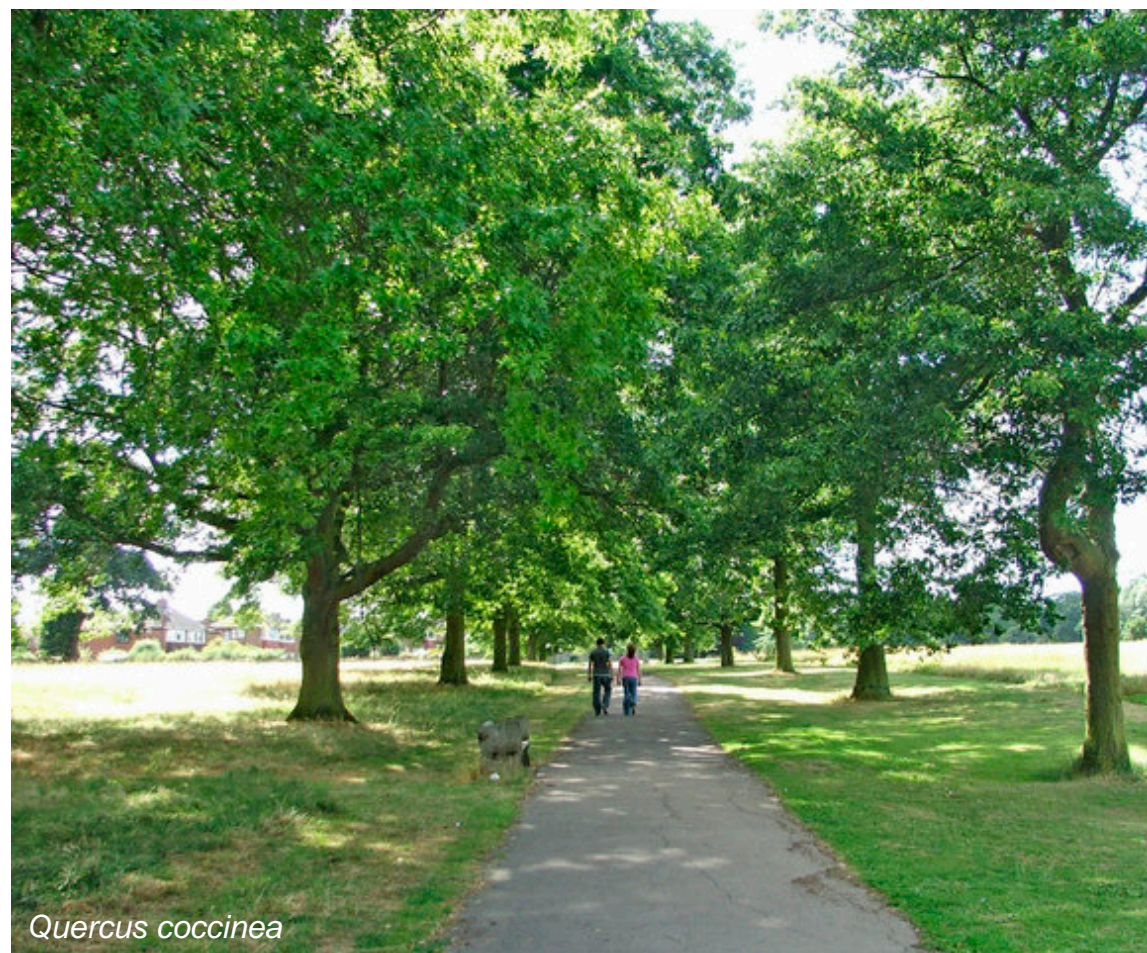
TREE TRENCH, TYP. LP-501

RECYCLING DUMPSTER
GENERATOR
TRANSFORMER
CITY OF RICHMOND ELECTRICAL SUBSTATION

PLANTING PLAN

VCU ERB | BASKERVILL + GOODY CLANCY + ANDROPOGON | 03.08.2018





PLANT PALETTE - STREET TREES

ENGINEERING EAST HALL

SNEAD HALL

ENGINEERING RESEARCH BUILDING

S. BELVIDERE STREET

S. MADISON STREET

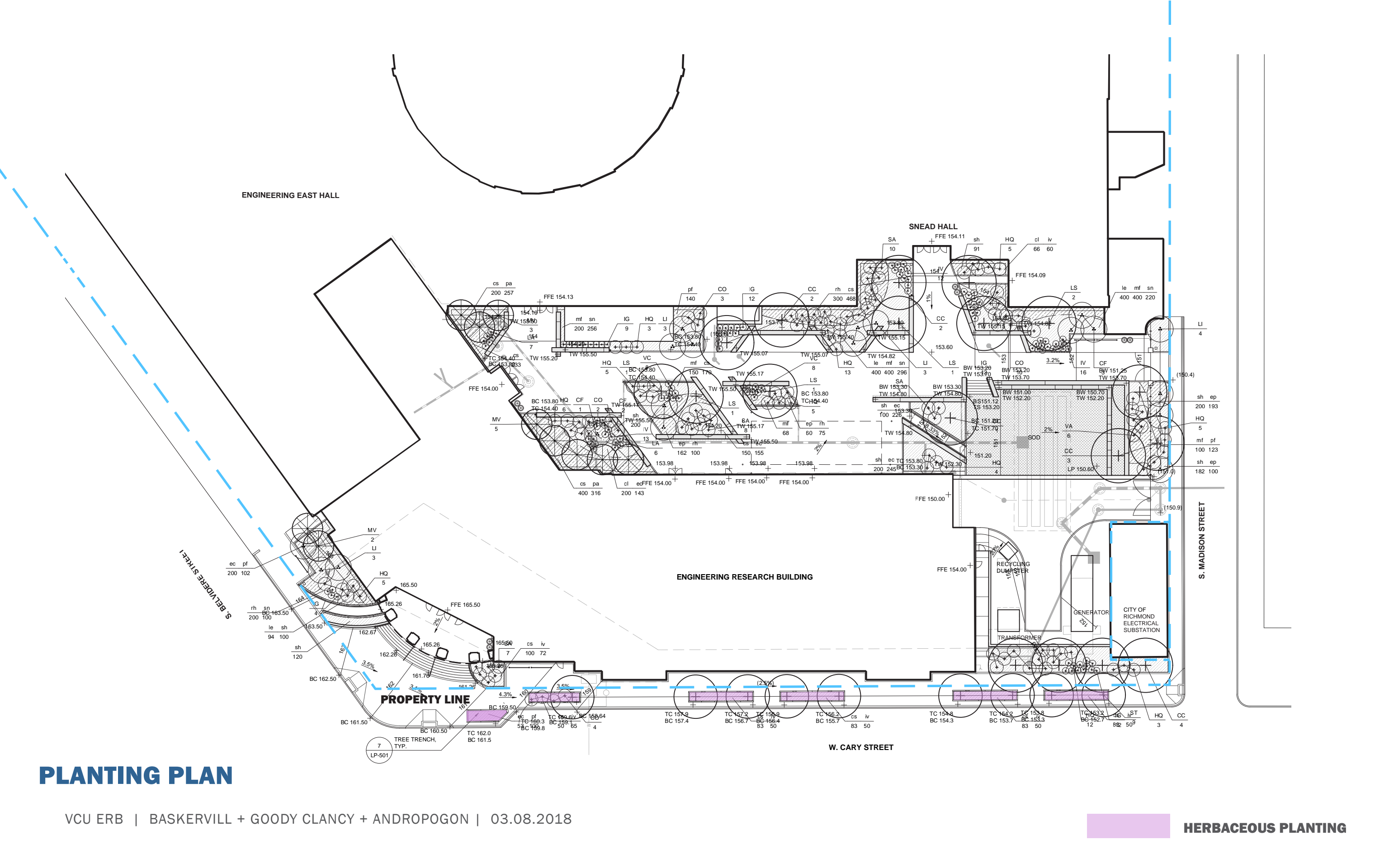
W. CARY STREET

PROPERTY LINE

TREE TRENCH, TYP. LP-501

RECYCLING DUMPSTER
GENERATOR
TRANSFORMER
CITY OF RICHMOND ELECTRICAL SUBSTATION

PLANTING PLAN





Carex stricta



Iris virginica

PLANT PALETTE - HERBACEOUS PERENNIALS