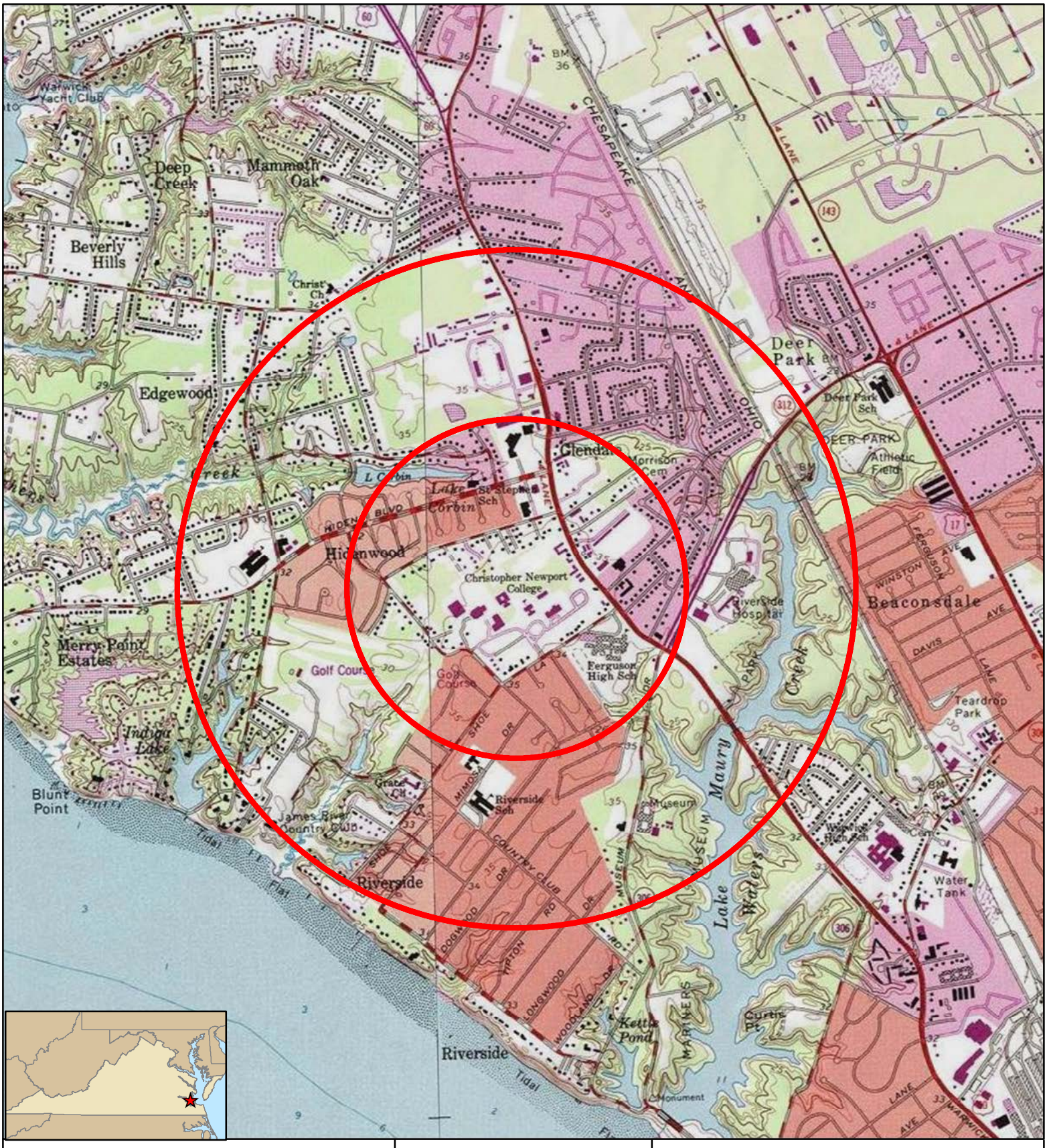


The red concentric circles represent a radius of 0.5 miles and 1 mile from the center of the University.

0 0.15 0.3 0.45 0.6

Miles

N

1:24,000

1 inch~2,000 feet

Figure 1: SWPP Site Locus

Christopher Newport University
1 Ave. of the Arts
Newport News, VA

June 2016

CHRISTOPHER NEWPORT UNIVERSITY

Document Path: Z:\Infrastructure Design\Private\Projects\SWPPP_1_site_locus.mxd

Last Updated: 5/31/2016

Legend

- Buildings
- Chesapeake Bay Preservation Areas
- CNU MS4 Boundary
- Half Mile Radius
- PavedAreas
- Roads
- Schools
- WaterBodies
- Wetlands
- Outfalls

Service Layer Credits: MS4 Boundary and outfalls derived from Koontz-Bryant, PC; 2014. All other data derived City of Newport News GIS; 2015. Updated by Timmons Group; 2021.

0 500 1,000

Feet

N

1:10,000

1 inch~833 feet

Figure 2: SWPP GIS Data

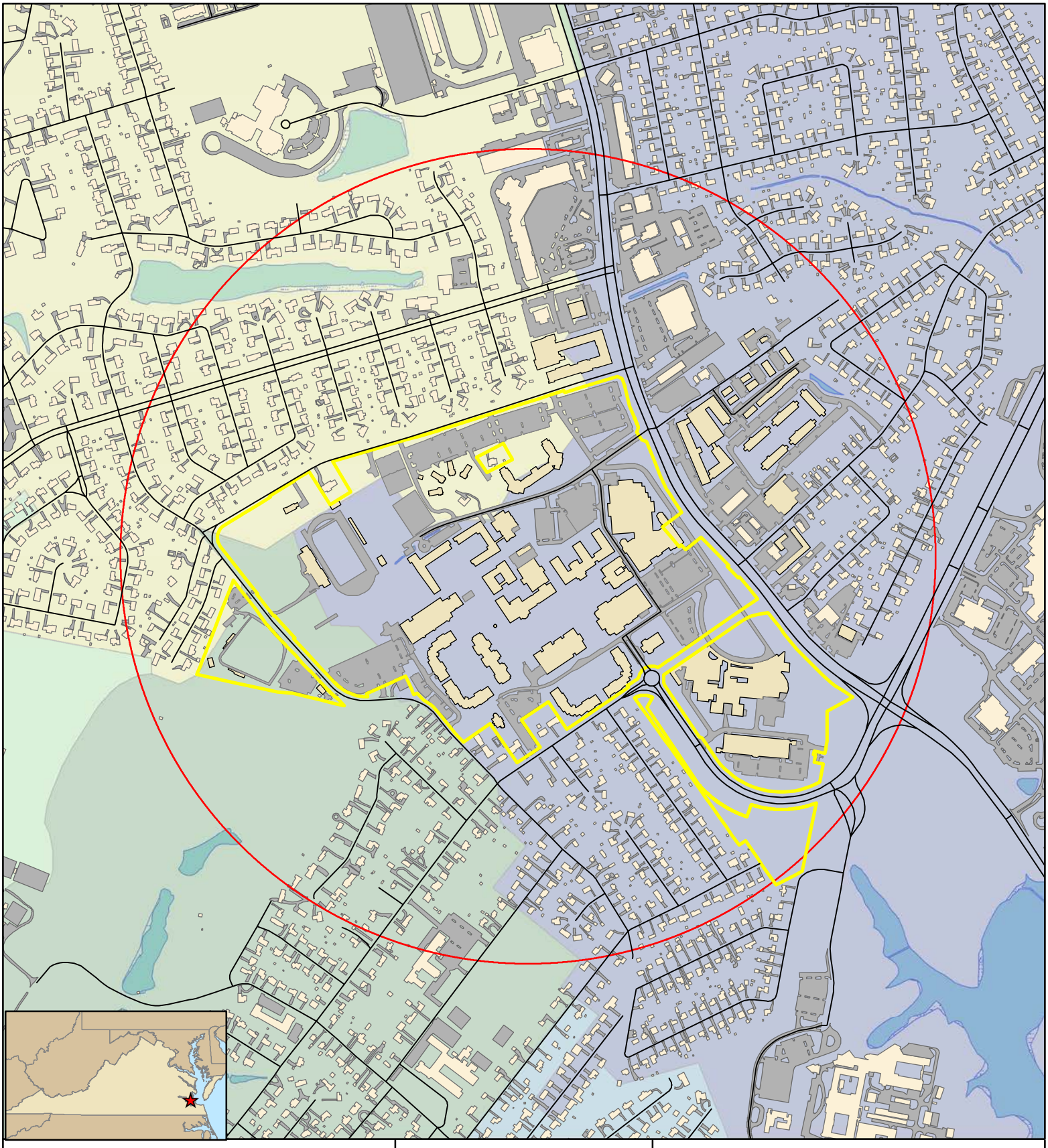
Christopher Newport University
1 Ave. of the Arts
Newport News, VA

June 2016

CHRISTOPHER NEWPORT UNIVERSITY

Document Path: Z:\Infrastructure Design\Private\Projects\SWPPP_2_GIS_Data.mxd

Last Updated: 1/27/2016



Legend

- Buildings
- CNU MS4 Boundary
- Half Mile Radius
- PavedAreas
- Roads
- WaterBodies
- Wetlands

Drainage Basins

- Deep Creek
- Fishers Creek
- Indigo Lake
- Lake Maury
- North Riverside
- South Riverside

Service Layer Credits: MS4 Boundary derived from Koontz-Bryant, PC; 2014. All other data derived from City of Newport News GIS; 2015.

0 500 1,000

Feet

N

1:10,000

1 inch~833 feet

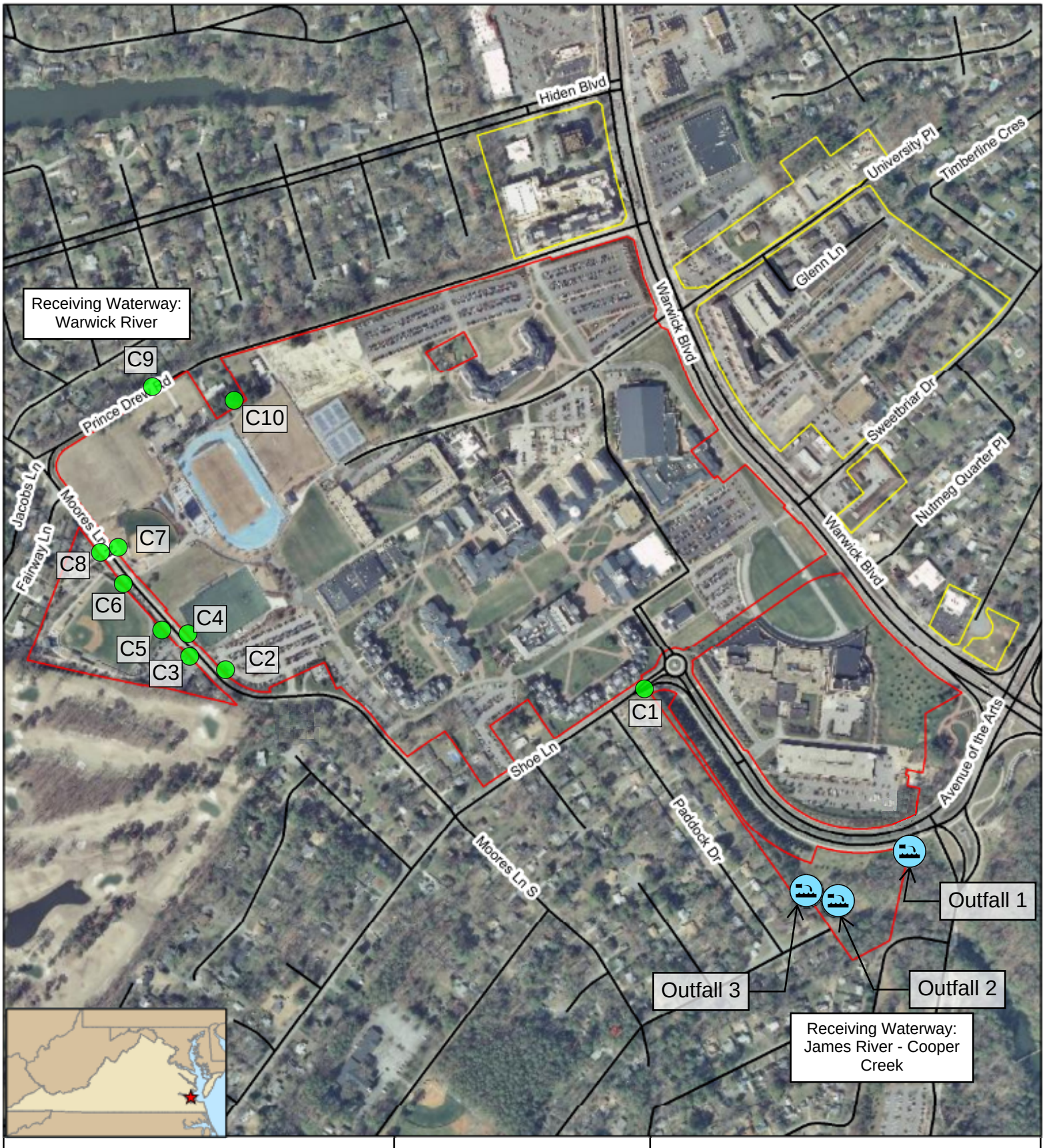
Figure 2.1: SWPP Drainage Basins

Christopher Newport University
1 Ave. of the Arts
Newport News, VA

June 2016

CHRISTOPHER NEWPORT UNIVERSITY

Document Path: Z:\Infrastructure Design\Private\Projects\SWPPP_2.1_drainage_basins.mxd Last Updated: 6/29/2016



Legend

- CNU MS4 General Permit Boundary
- CNU Property under Newport News' MS4
- Roads
- Outfalls
- Connection with City of Newport News

Service Layer Credits: Virginia Geographic Information Network; Road Data from City of Newport News' GIS; 2015. MS4 Boundary data from Koontz-Bryant, PC; 2015.Updated by Timmons Group; 2021.

0 450 900
Feet

N

1:7,000
1 inch ~ 600 feet

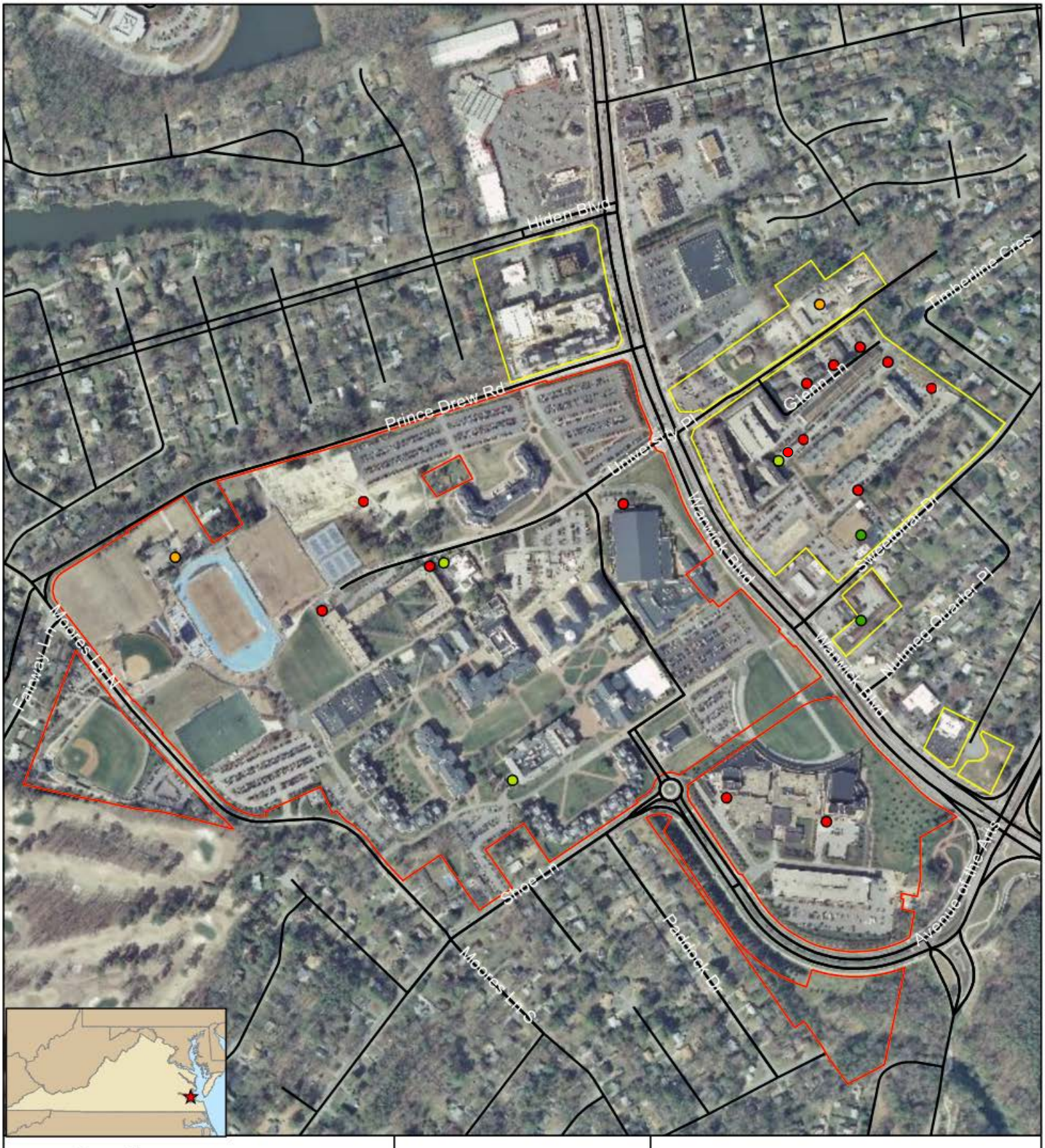
Figure 3: SWPP Orthophotograph

Christopher Newport University
1 Ave. of the Arts
Newport News, VA
June 2016

CHRISTOPHER NEWPORT UNIVERSITY

Document Path: Z:\Infrastructure Design\Private\Projects\SWPPP_3_Ortho.mxd

Last Updated: 1/27/2021



Legend

- Roads
- CNU MS4 General Permit Boundary
- CNU Property under Newport News' MS4

High Priority Areas

- Facilities Support Operations
- Food Services - Waste Management Area
- Landscaping Operations
- Waste Management Area

Service Layer Credits: Virginia Geographic Information Network; Road data from City of Newport News GIS; 2015. MS4 Boundary Data derived from Koontz, Bryant, PC; 2015. High Priority Areas identified by CNU; 2016.

0 450 900

Feet

N

1:7,000

1 inch ~ 600 feet

Figure 4: SWPP Areas of High Priority

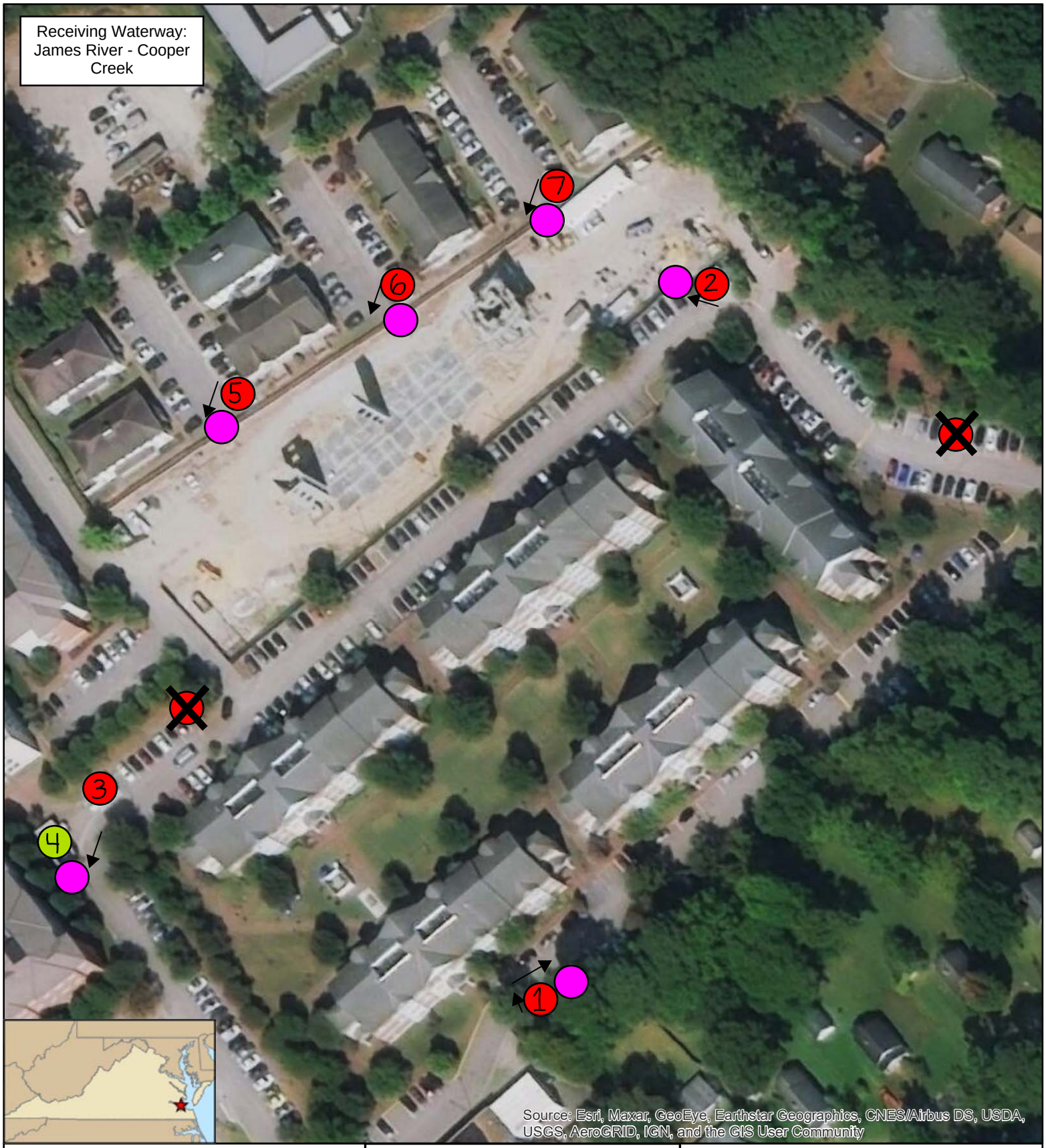
Christopher Newport University
1 Ave. of the Arts
Newport News, VA

June 2020

CHRISTOPHER NEWPORT UNIVERSITY

Document Path: Z:\Infrastructure Design\Private\Projects\SWPPP_4_High_Priority.mxd Last Updated: 12/9/2020

Updated by Timmons Group; 2020



Legend

High Priority Areas

- Facilities Support Operations
- Food Services - Waste Management Area
- Landscaping Operations
- Waste Management Area
- Loading/Unloading Areas
- Processing and Storage Areas
- Outfalls
- Direction of Drainage

0 62.5 125 250

Feet

N

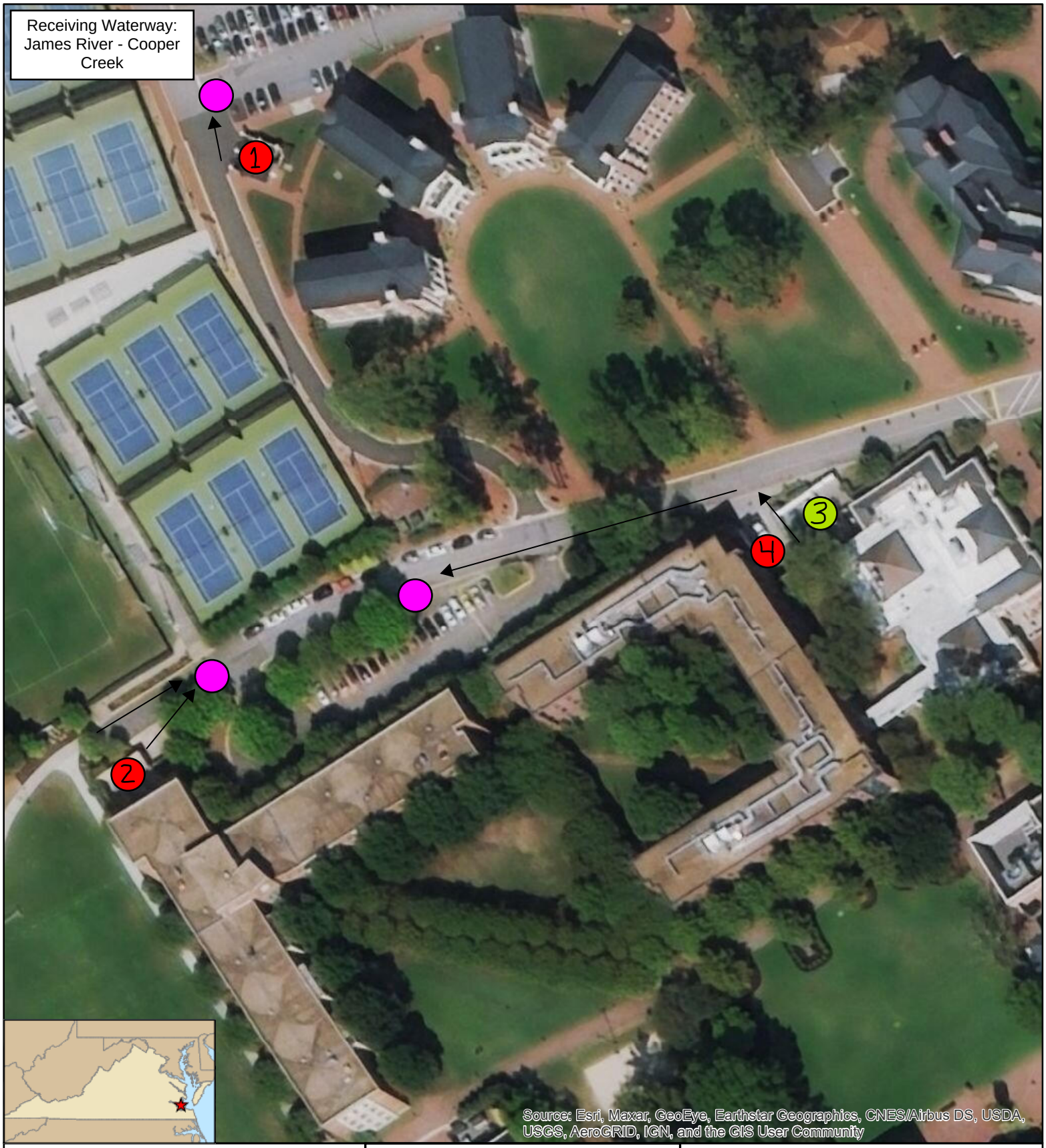
1:1,500

1 inch ~ 125 feet

Figure 4.1: SWPPP Areas of High Priority
CNU Apartments
Christopher Newport University
1 Ave. of the Arts
Newport News, VA
June 2022

CHRISTOPHER NEWPORT UNIVERSITY

Last Updated: 12/9/2020



Legend

High Priority Areas

- Facilities Support Operations
- Food Services - Waste Management Area
- Landscaping Operations
- Waste Management Area
- Loading/Unloading Areas
- Processing and Storage Areas
- Outfalls
- Direction of Drainage

0 62.5 125 250

Feet

N

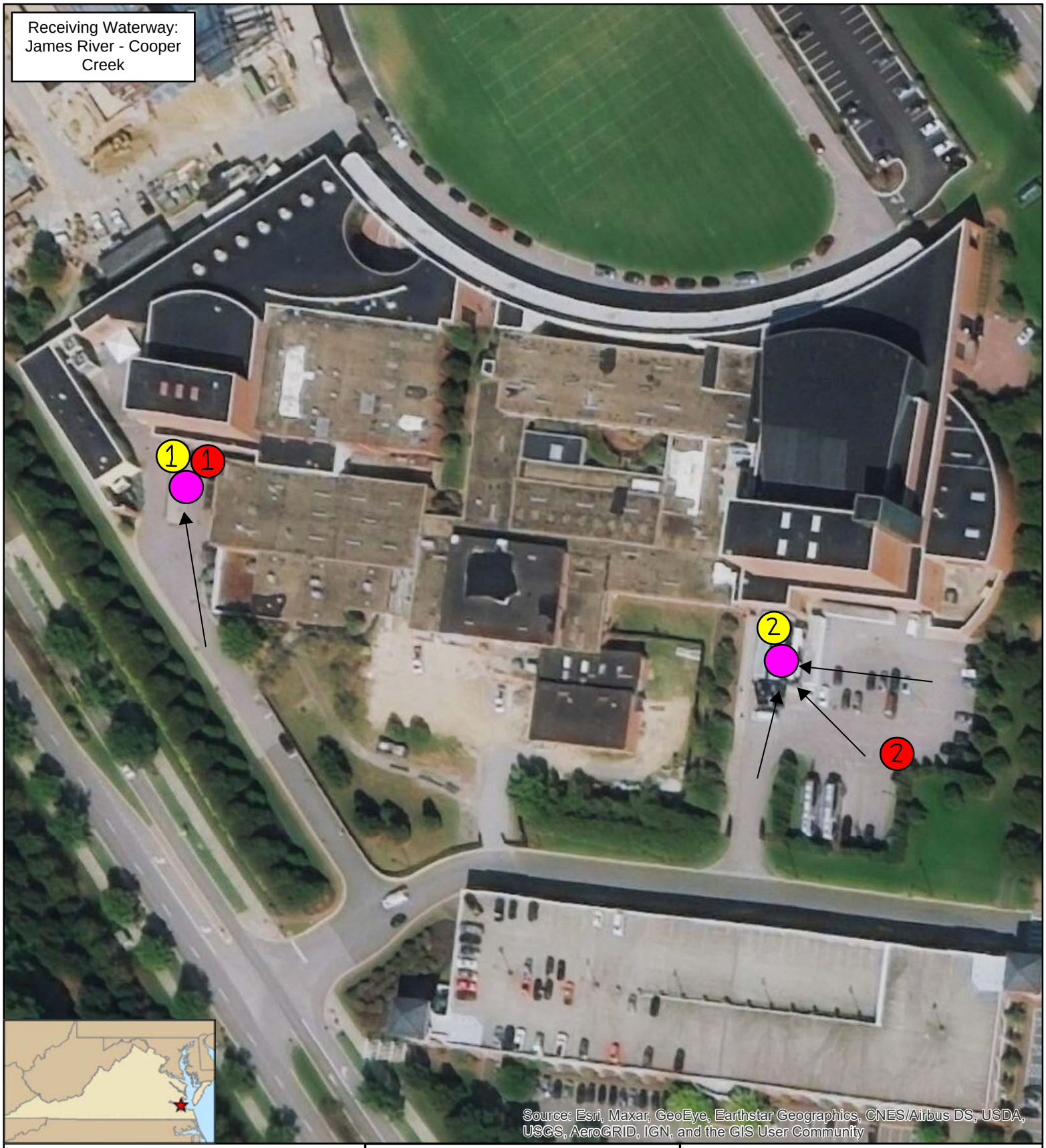
1:1,500

1 inch ~ 125 feet

Figure 4.2: SWPPP Areas of High Priority
Hiden-Hussey Commons
Christopher Newport University
1 Ave. of the Arts
Newport News, VA
June 2022

CHRISTOPHER NEWPORT UNIVERSITY

Last Updated: 12/9/2020



Legend

High Priority Areas

- Facilities Support Operations
- Food Services - Waste Management Area
- Landscaping Operations
- Waste Management Area
- Loading/Unloading Areas
- Processing and Storage Areas
- Outfalls
- Direction of Drainage

0 62.5 125 250

Feet

N

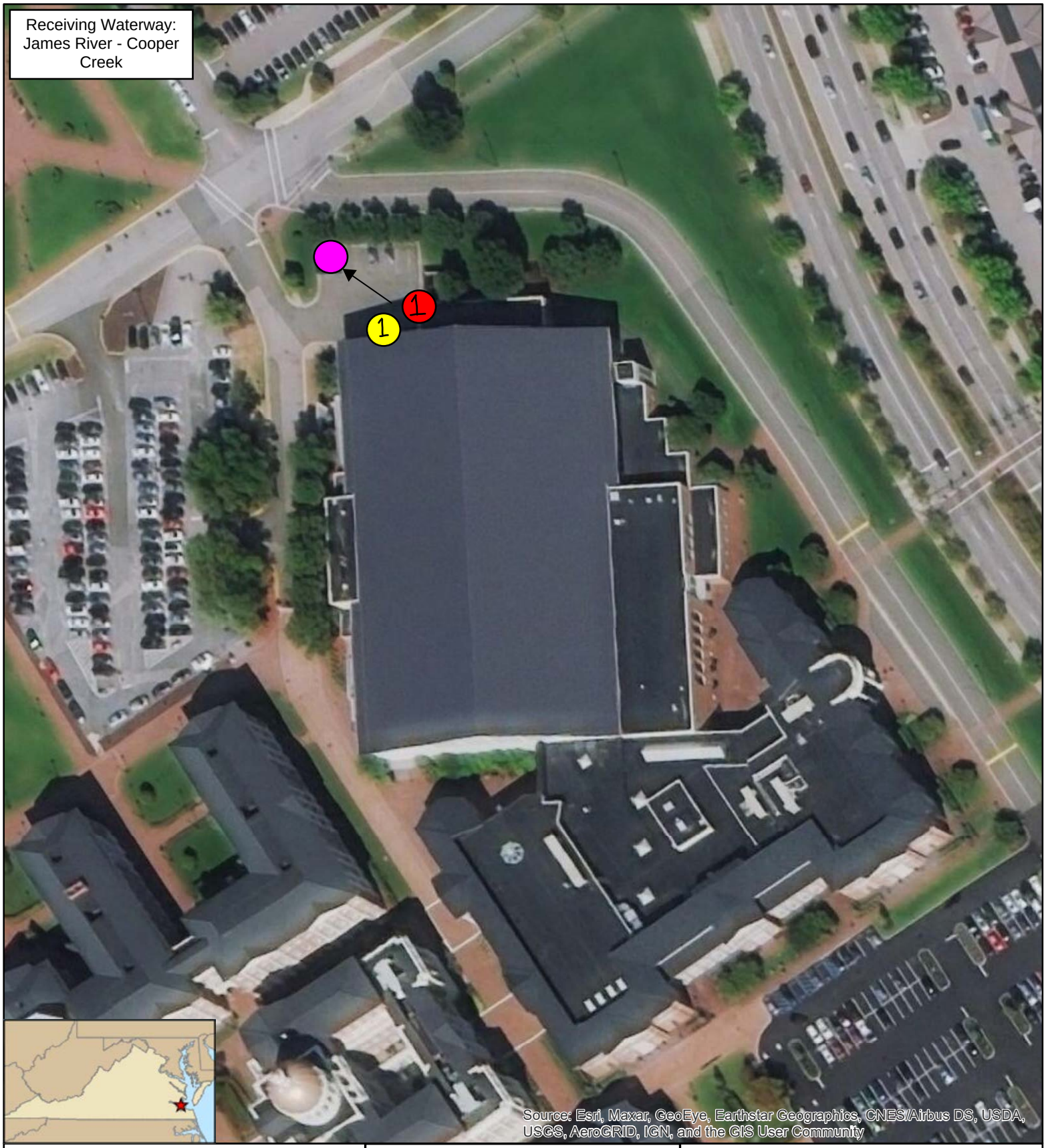
1:1,500

1 inch ~ 125 feet

Figure 4.3: SWPPP Areas of High Priority
Ferguson Center
Christopher Newport University
1 Ave. of the Arts
Newport News, VA
June 2022

CHRISTOPHER NEWPORT UNIVERSITY

Last Updated: 12/9/2020



Legend

High Priority Areas

- Facilities Support Operations
- Food Services - Waste Management Area
- Landscaping Operations
- Waste Management Area
- Loading/Unloading Areas
- Processing and Storage Areas
- Outfalls → Direction of Drainage

0 62.5 125 250

Feet

N

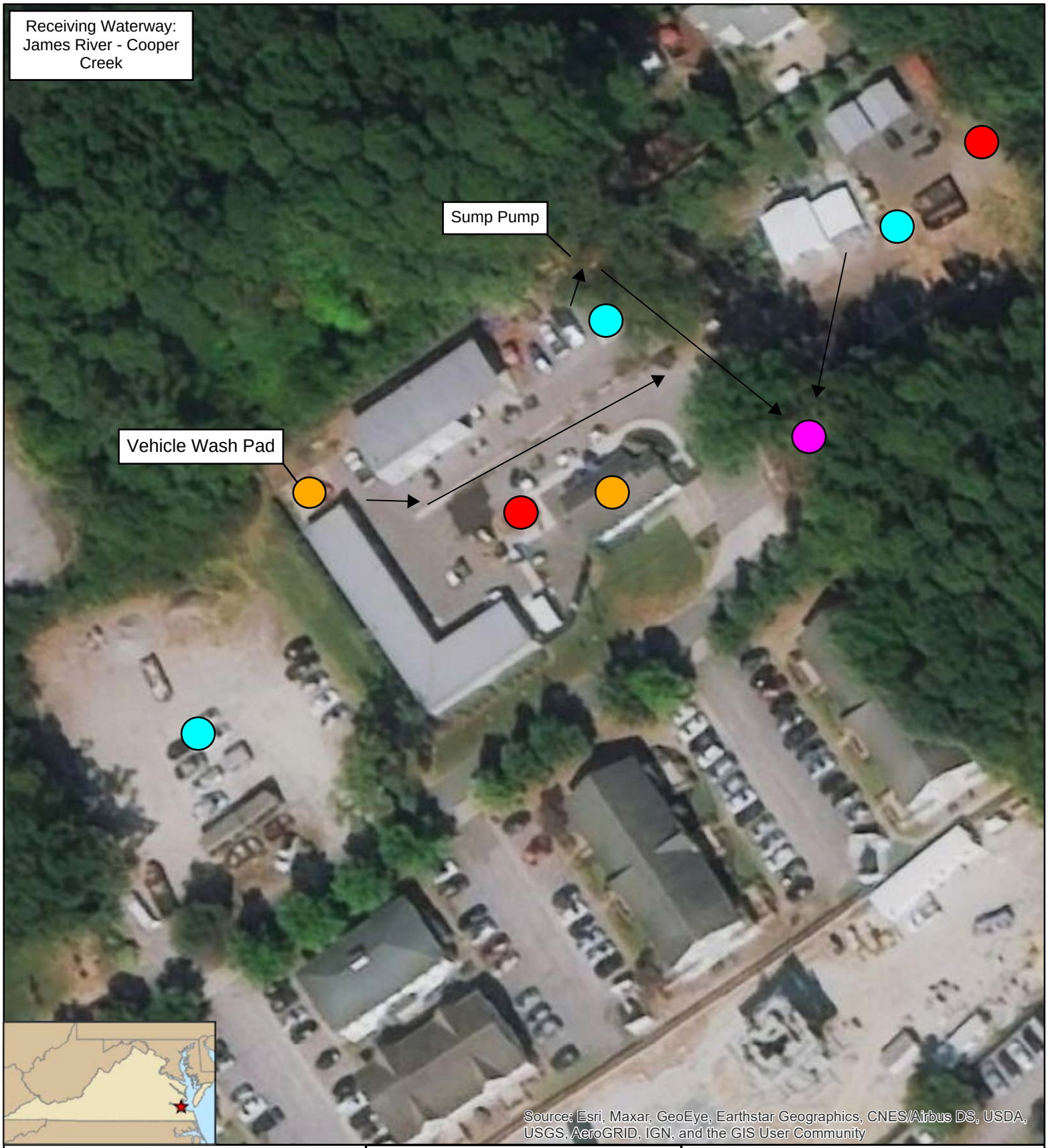
1:1,500

1 inch ~ 125 feet

Figure 4.4: SWPPP Areas of High Priority
Freemen Center (Athletics Ticket Office)
Christopher Newport University
1 Ave. of the Arts
Newport News, VA
June 2022

CHRISTOPHER NEWPORT UNIVERSITY

Last Updated: 12/9/2020



Legend

High Priority Areas

- Facilities Support Operations
- Food Services - Waste Management Area
- Landscaping Operations
- Waste Management Area
- Loading/Unloading Areas
- Processing and Storage Areas
- Outfalls
- Direction of Drainage

0 40 80 160

Feet

N

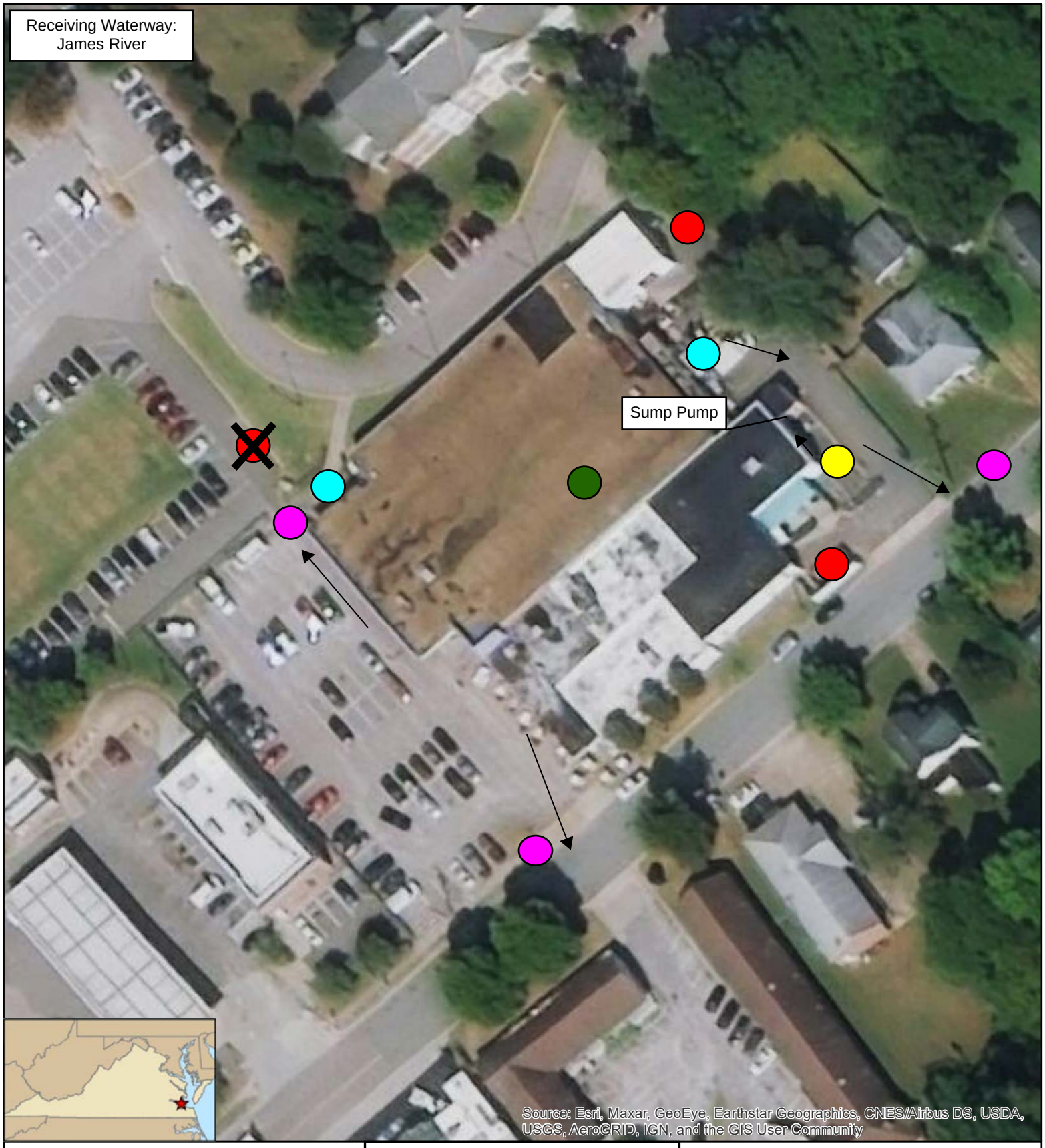
1:1,000

1 inch ~ 83.33 feet

Figure 4.5: SWPPP Areas of High Priority
Grounds Department Compound
Christopher Newport University
1 Ave. of the Arts
Newport News, VA
June 2022

CHRISTOPHER NEWPORT UNIVERSITY

Last Updated: 12/9/2020



Legend

High Priority Areas

- Facilities Support Operations
- Food Services - Waste Management Area
- Landscaping Operations
- Waste Management Area
- Loading/Unloading Areas
- Processing and Storage Areas
- Outfalls

→ Direction of Drainage

0 40 80 160

Feet

N

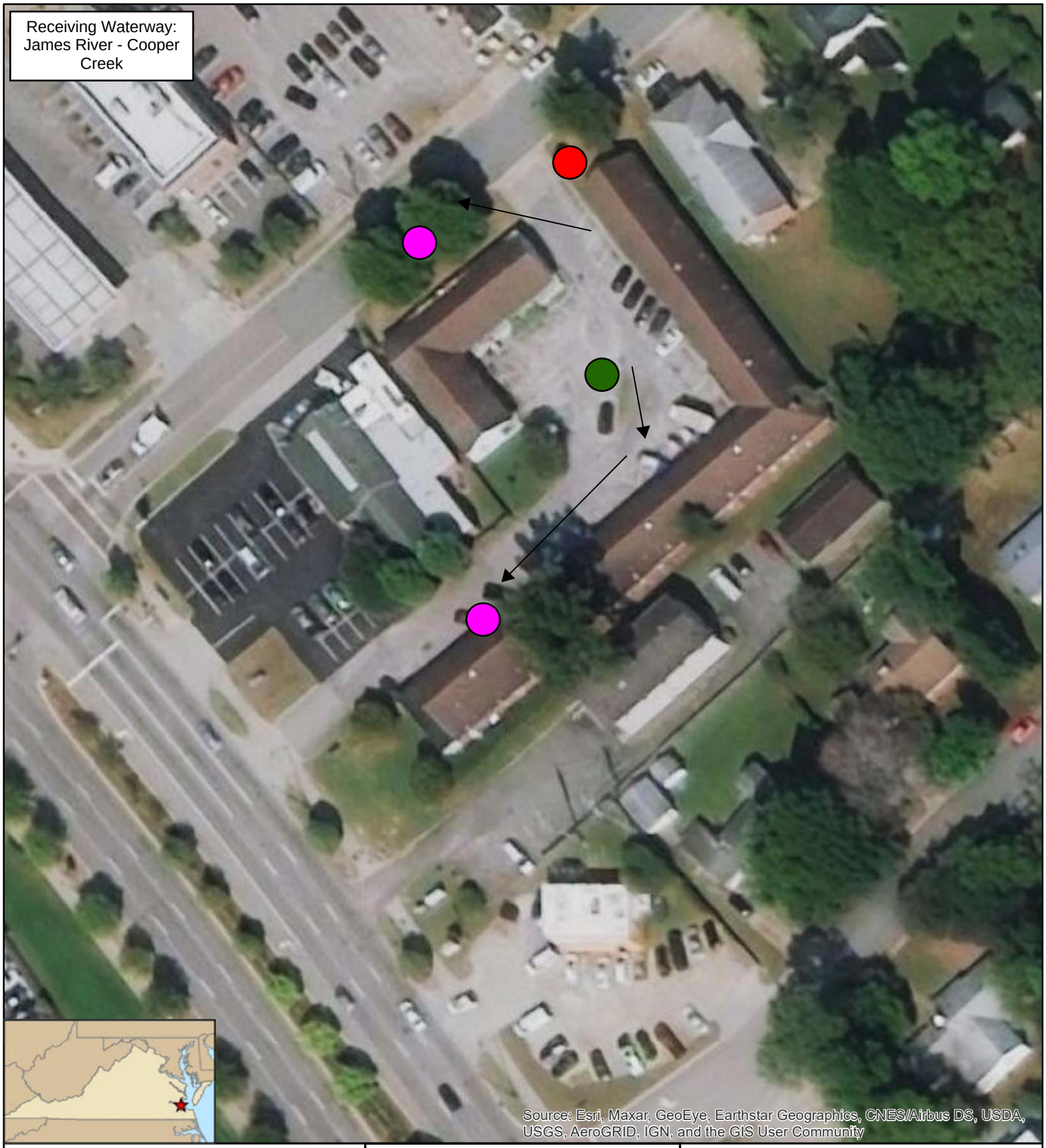
1:1,000

1 inch ~ 83.33 feet

Figure 4.6: SWPPP Areas of High Priority
Plant Operations Building
Christopher Newport University
1 Ave. of the Arts
Newport News, VA
June 2022

CHRISTOPHER NEWPORT UNIVERSITY

Last Updated: 12/9/2020



Legend

High Priority Areas

- Facilities Support Operations
- Food Services - Waste Management Area
- Landscaping Operations
- Waste Management Area
- Loading/Unloading Areas
- Processing and Storage Areas
- Outfalls
- Direction of Drainage

0 40 80 160

Feet

N

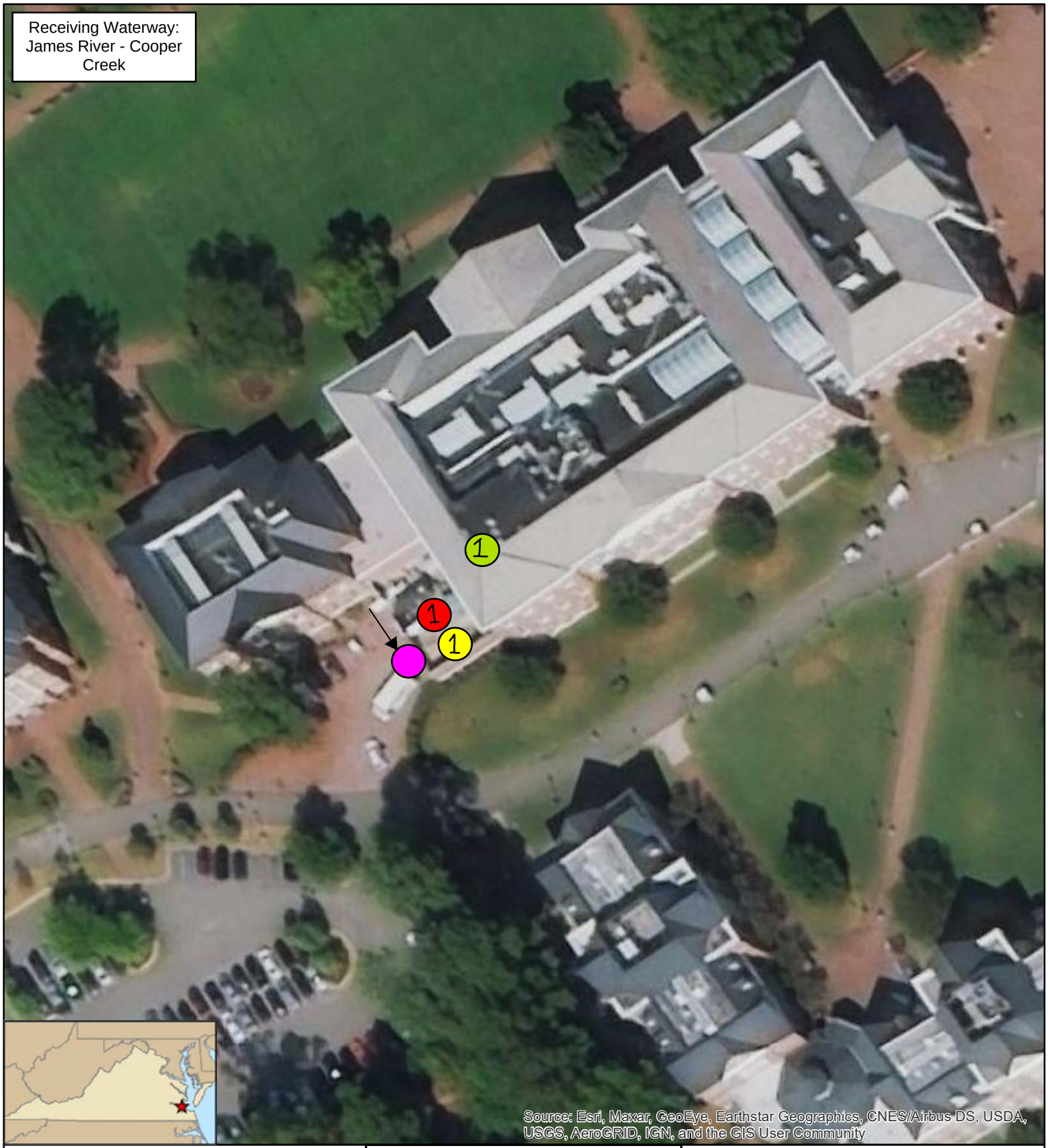
1:1,000

1 inch ~ 83.33 feet

Figure 4.7: SWPPP Areas of High Priority
Commonwealth Hall
Christopher Newport University
1 Ave. of the Arts
Newport News, VA
June 2022

CHRISTOPHER NEWPORT UNIVERSITY

Last Updated: 12/9/2020



Legend

High Priority Areas

- Facilities Support Operations
- Food Services - Waste Management Area
- Landscaping Operations
- Waste Management Area
- Loading/Unloading Areas
- Processing and Storage Areas
- Outfalls

Direction of Drainage

0 40 80 160

Feet

N

1:1,000

1 inch ~ 83.33 feet

Figure 4.8: SWPPP Areas of High Priority
David Student Union
Christopher Newport University
1 Ave. of the Arts
Newport News, VA
June 2022

CHRISTOPHER NEWPORT UNIVERSITY

Last Updated: 12/9/2020

Legend

High Priority Areas

- Facilities Support Operations
- Food Services - Waste Management Area
- Landscaping Operations
- Waste Management Area
- Loading/Unloading Areas
- Processing and Storage Areas
- Outfalls
- Direction of Drainage

0 40 80 160

Feet

N

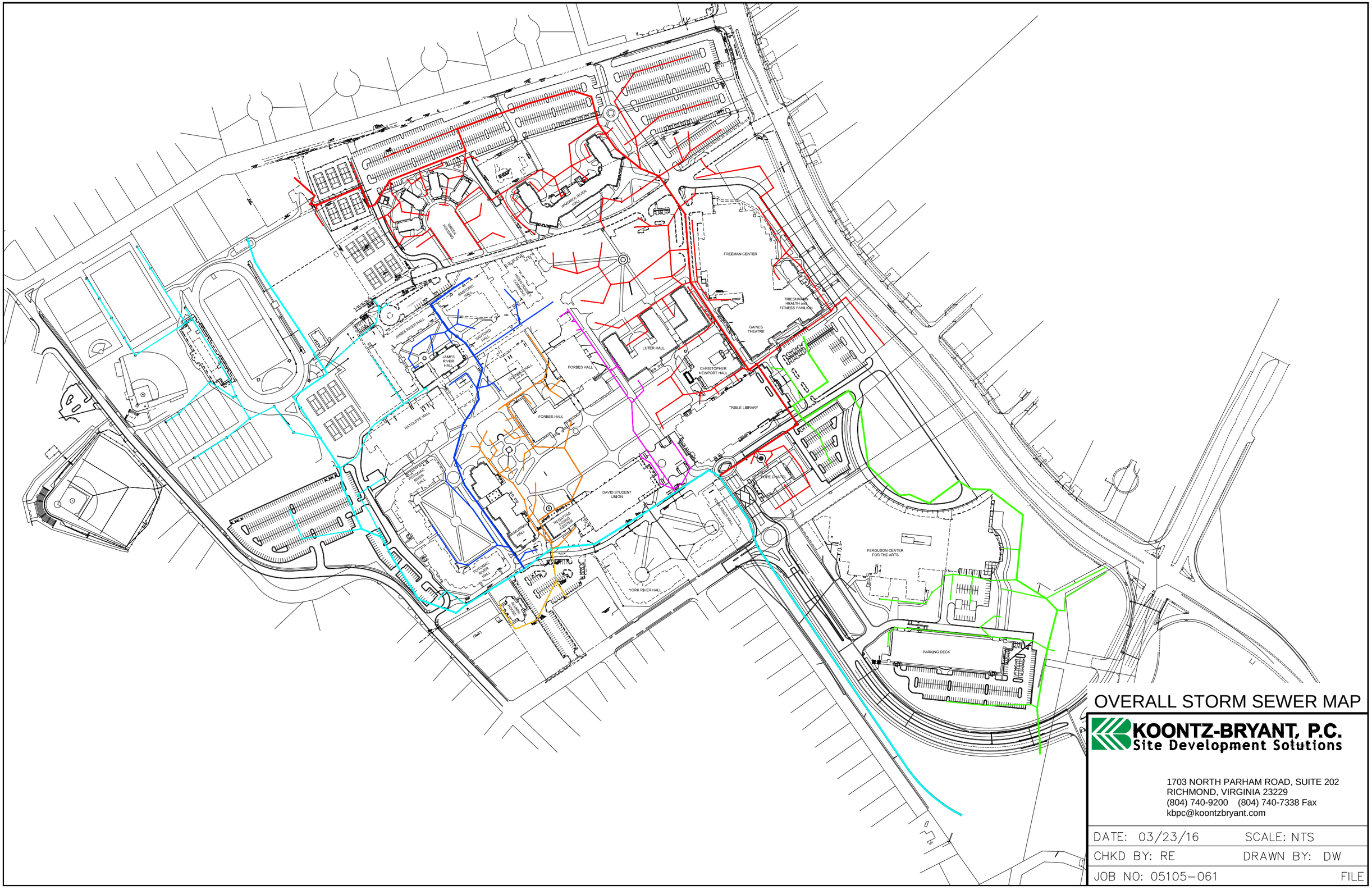
1:1,000

1 inch ~ 83.33 feet

Figure 4.9: SWPPP Areas of High Priority
Athletics Department Operations
Christopher Newport University
1 Ave. of the Arts
Newport News, VA
June 2022

CHRISTOPHER NEWPORT UNIVERSITY

Last Updated: 12/9/2020

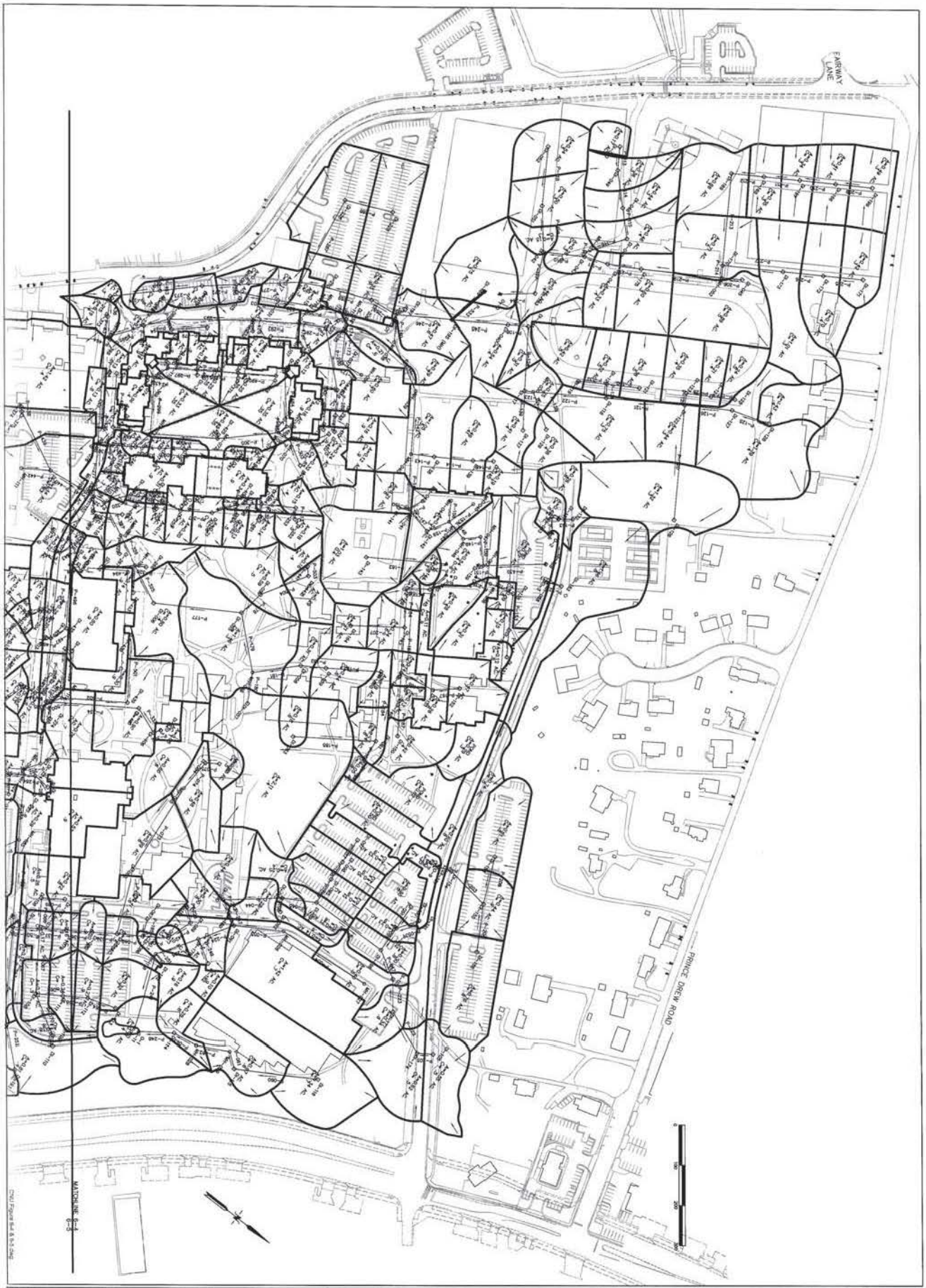


OVERALL STORM SEWER MAP

KOONTZ-BRYANT, P.C.
Site Development Solutions

1703 NORTH PARHAM ROAD, SUITE 202
RICHMOND, VIRGINIA 23229
(804) 740-9200 (804) 740-7338 Fax
kbpc@koontzbryant.com

DATE: 03/23/16	SCALE: NTS
CHKD BY: RE	DRAWN BY: DW
JOB NO: 05105-061	FILE



6-4

JN: 1585

SCALE: 1"= 100'

DATE: APRIL 30, 2002

CHRISTOPHER NEWPORT UNIVERSITY

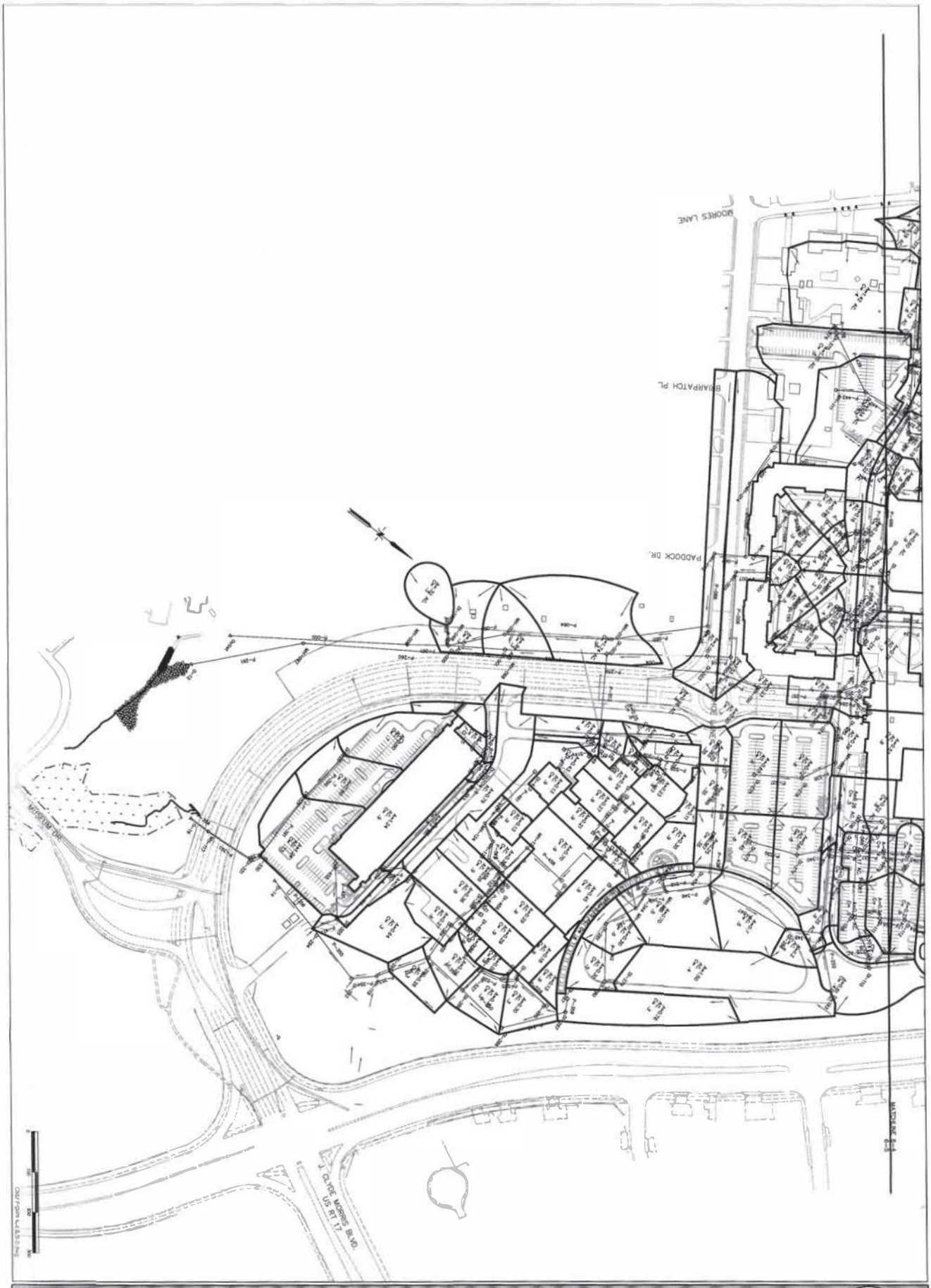
NEWPORT NEWS VIRGINIA

2008 "C" VALUES, DRAINAGE AREAS AND STORM SEWER

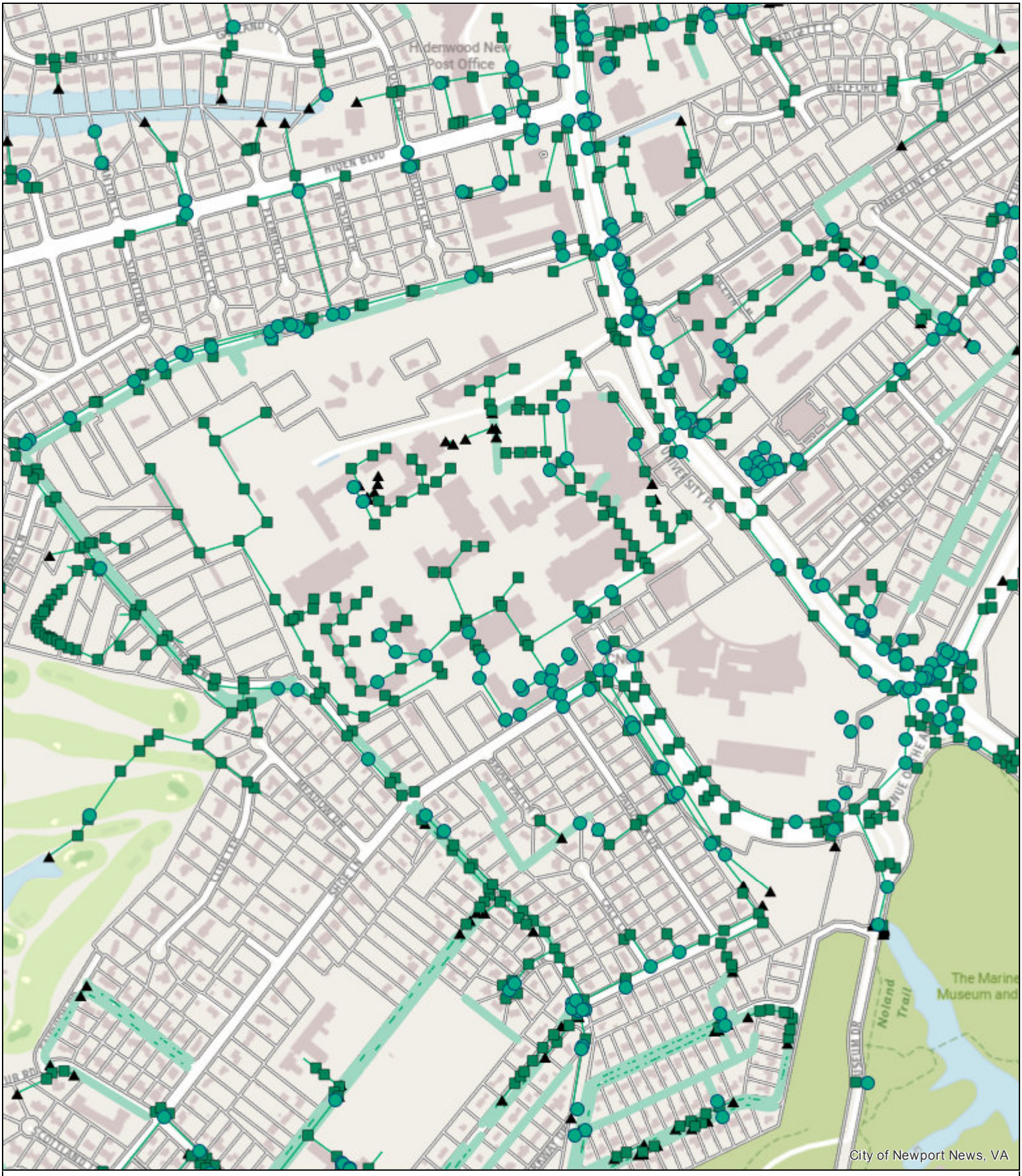
KOONTZ-BRYANT, P.C.
A Full Service Civil Consulting Firm
1703 N PARHAM ROAD, SUITE 202
RICHMOND, VIRGINIA 23229
(804) 740-9200 FAX (804) 740-7338
kbpc@koontzbryant.com

DESIGNED: WWW
DRAWN: VLS
CHECKED: PFH

REVISIONS:



6-5	JN: 1585	SCALE: 1"=100'	DATE: APRIL 30, 2009	CHRISTOPHER NEWPORT UNIVERSITY NEWPORT NEWS VIRGINIA 2008 "C" VALUES, DRAINAGE AREAS AND STORM SEWER	KOONTZ-BRYANT, P.C. A Full Service Civil Consulting Firm 1703 N PARHAM ROAD, SUITE 202 RICHMOND, VIRGINIA 23229 (804) 740-9200 FAX (804) 740-7338 kbpc@koontzbryant.com	DESIGNED: WWW DRAWN: VLS CHECKED: PFH	REVISIONS:

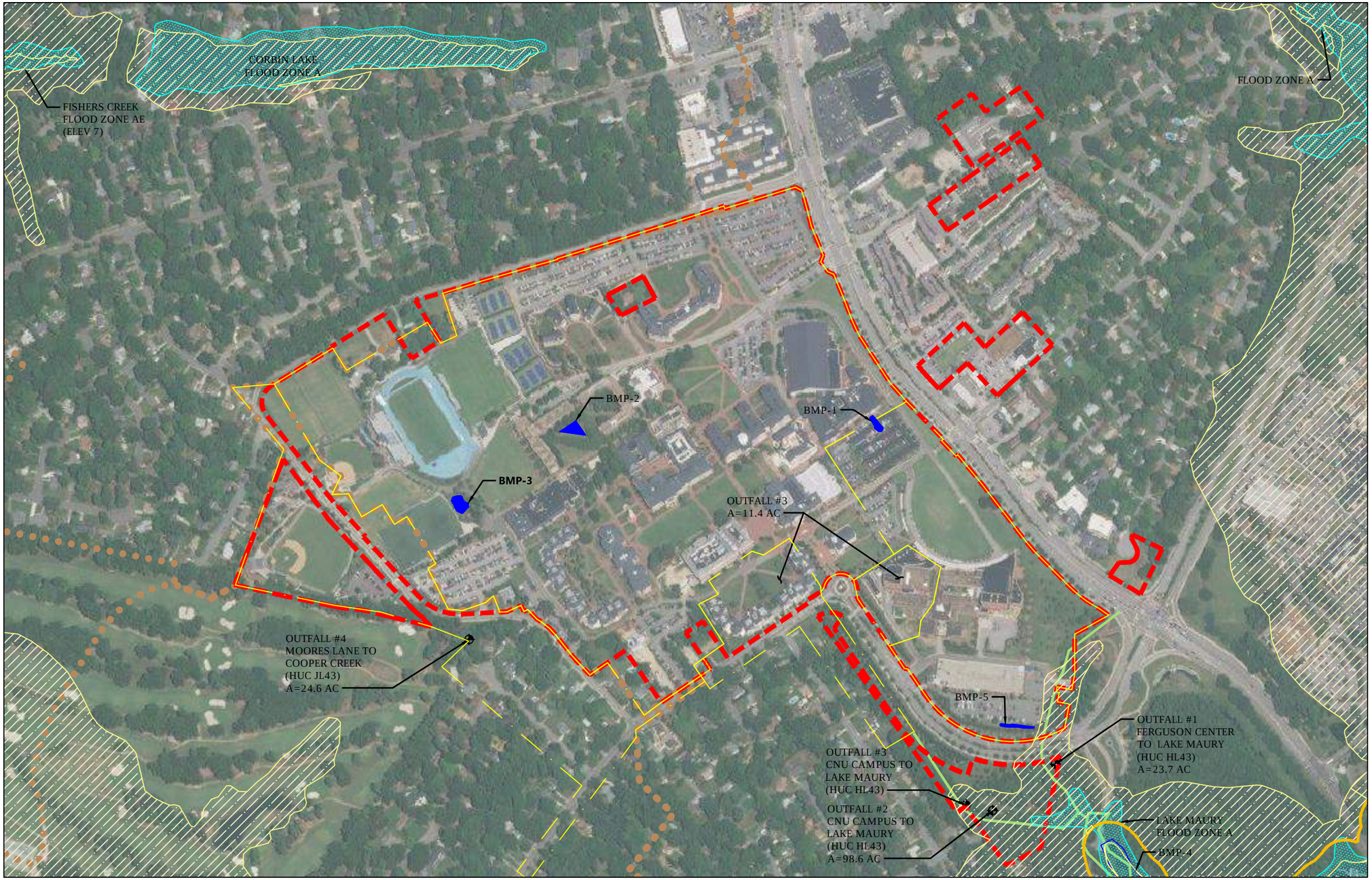


N

City of Newport News Storm System around CNU

0.15 mi

\\vhb\gbl\proj\VirginiaBeach\33935.04 CNU SWMP\tech\Stormwater\FINAL\3393504_CNU-DA.dwg



CHRISTOPHER NEWPORT UNIVERSITY

Legend

- CAMPUS AREA
- HUC DIVIDES
- DRAINAGE AREA
- WETLAND
- RESOURCE PROTECTION AREA (RPA)
- RESOURCE MANAGEMENT AREA (RMA)
- FLOOD ZONE
- EXISTING BMP
- DRAINAGE OUTFALL

EXISTING BMP

BMP-1	CONVOCATION, SPORTS & WELLNESS CENTER- WET POND (REMOVED)
BMP-2	JAMES RIVER RESIDENCE HALL- EXTENDED DETENTION BASIN
BMP-3	TRACK COMPLEX STADIUM SEATING- EXTENDED DETENTION BASIN
BMP-4	LAKE MAURY
BMP-5	LOT A- BIORETENTION (LEVEL 1)

OFFSITE CAMPUS AREA

YODER BARN- 660 HAMILTON DR

PRESIDENT'S HOUSE- 1205 RIVERSIDE DR

0 250 500 1000 Feet

Figure 1: Existing Conditions

Stormwater Managment Master Plan

Christopher Newport University

Source:
Prepared for: CNU
Date: May 2019

vhb