

USGS RESTON VA STORM DRAIN DOCUMENTATION



NO.	REVISION	DATE
1	---	XX/XX/XX

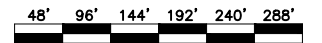
J.W. POWELL BUILDING
U.S. GEOLOGICAL SURVEY
RESTON, VIRGINIA

~~CONTROLLED UNCLASSIFIED INFORMATION~~

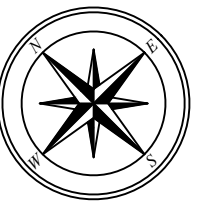
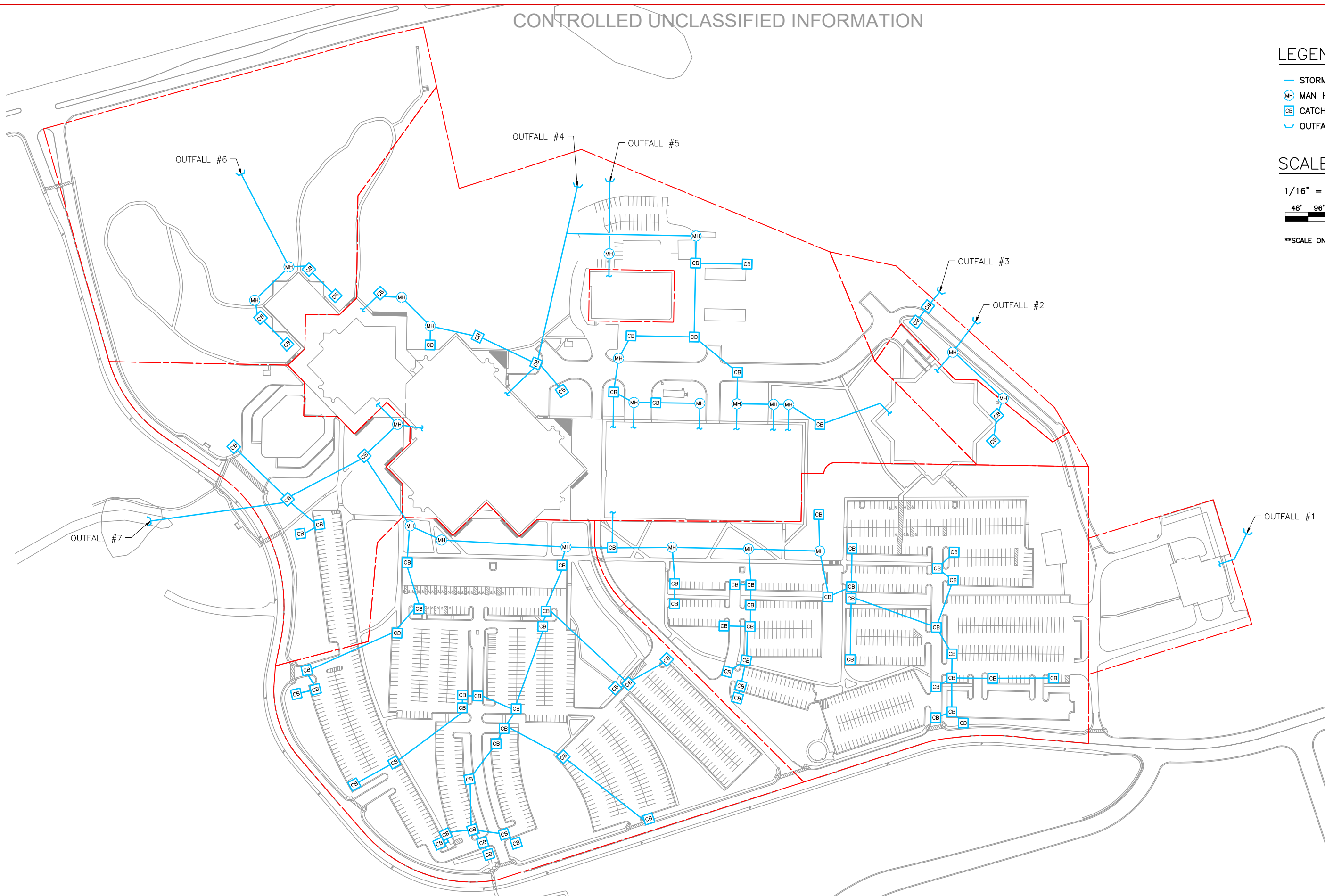
LEGEND

- STORM WATER PIPE
- ⊙ MH MAN HOLE
- CB CATCH BASIN
- ⌋ OUTFALL

SCALE

$$1/16'' = 12'$$


****SCALE ONLY ACCURATE ON 11" x 17" PRINT****

[illegible]

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RESTON, VIRGINIA

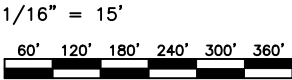
USGS RESTON - STORM WATER DRAIN PLAN - OVERALL

CONTROLLED UNCLASSIFIED INFORMATION

LEGEND

- PERVIOUS LAND
- IMPERVIOUS LAND

SCALE



SCALE ONLY ACCURATE ON 11" x 17" PRINT

SITE OVERALL

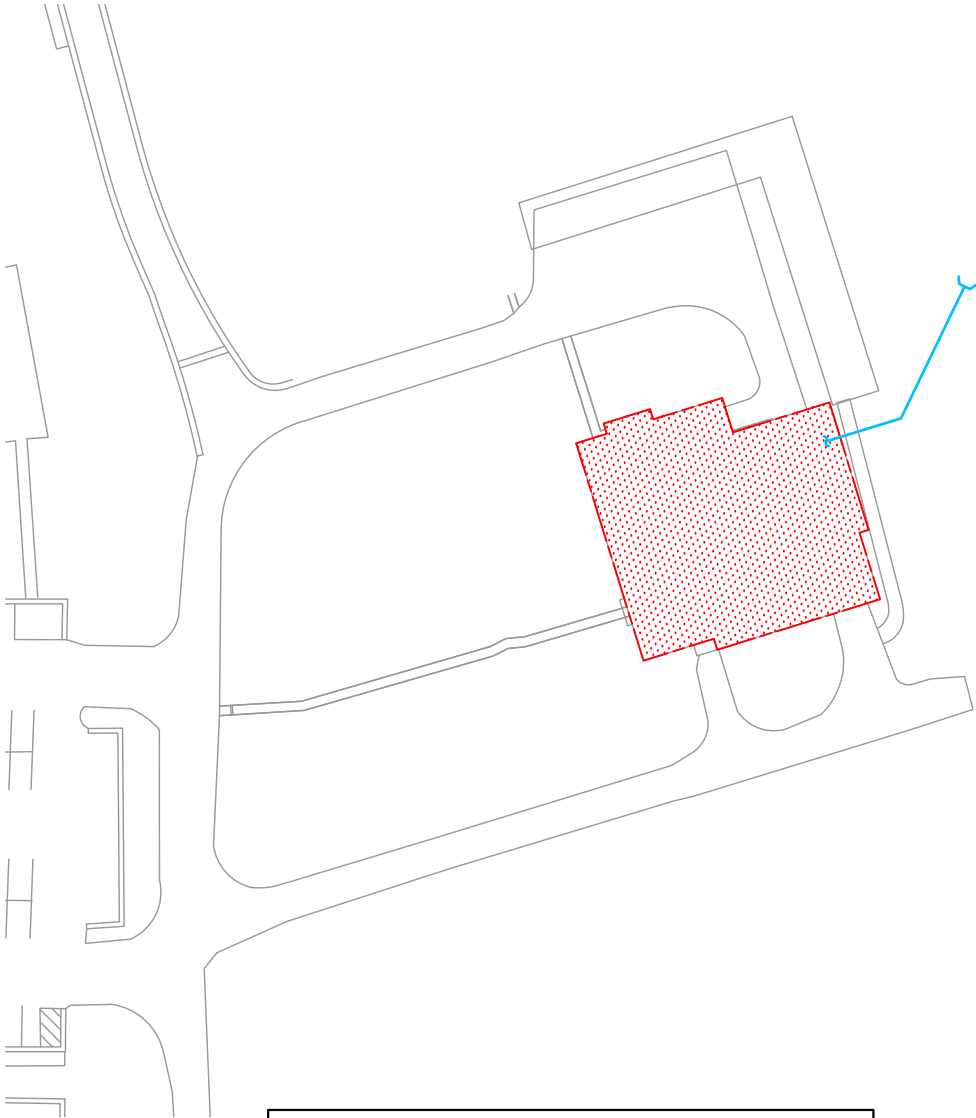
PERVIOUS AREA:	75.1 ACRES (3269713.44 ft ²)
IMPERVIOUS AREA:	30.9 ACRES (1346376.77 ft ²)

USGS RESTON - OVERALL PERVIOUS AND IMPERVIOUS AREA LAYOUT



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OUTFALL #1 (38°56'54.9"N, 77°22'11.9")	
WATER RECEIVING DISCHARGES FROM OUTFALL:	SUGARLAND RUN (IMPAIRED)
HYDROLIC UNIT CODE (HUC):	HUC8 = 02070008 VAHU6 = PL21
APPROXIMATE ACREAGE SERVED:	30.4 ACRES (1324555 ft²)
PREDOMINATE LAND USE:	INSTITUTIONAL
NAME OF APPROVED TMDL:	CHESAPEAKE BAY TMDL

USGS RESTON - STORM WATER DRAIN PLAN - OUTFALL #1



OUTFALL #1 - VIEW UPSTREAM

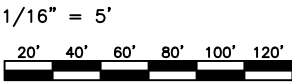


OUTFALL #1 - VIEW DOWNSTREAM

LEGEND

- STORM WATER PIPE
- ⊙ MAN HOLE
- ▣ CATCH BASIN
- ~ OUTFALL

SCALE



SCALE ONLY ACCURATE ON 11" x 17" PRINT



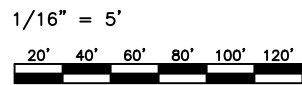
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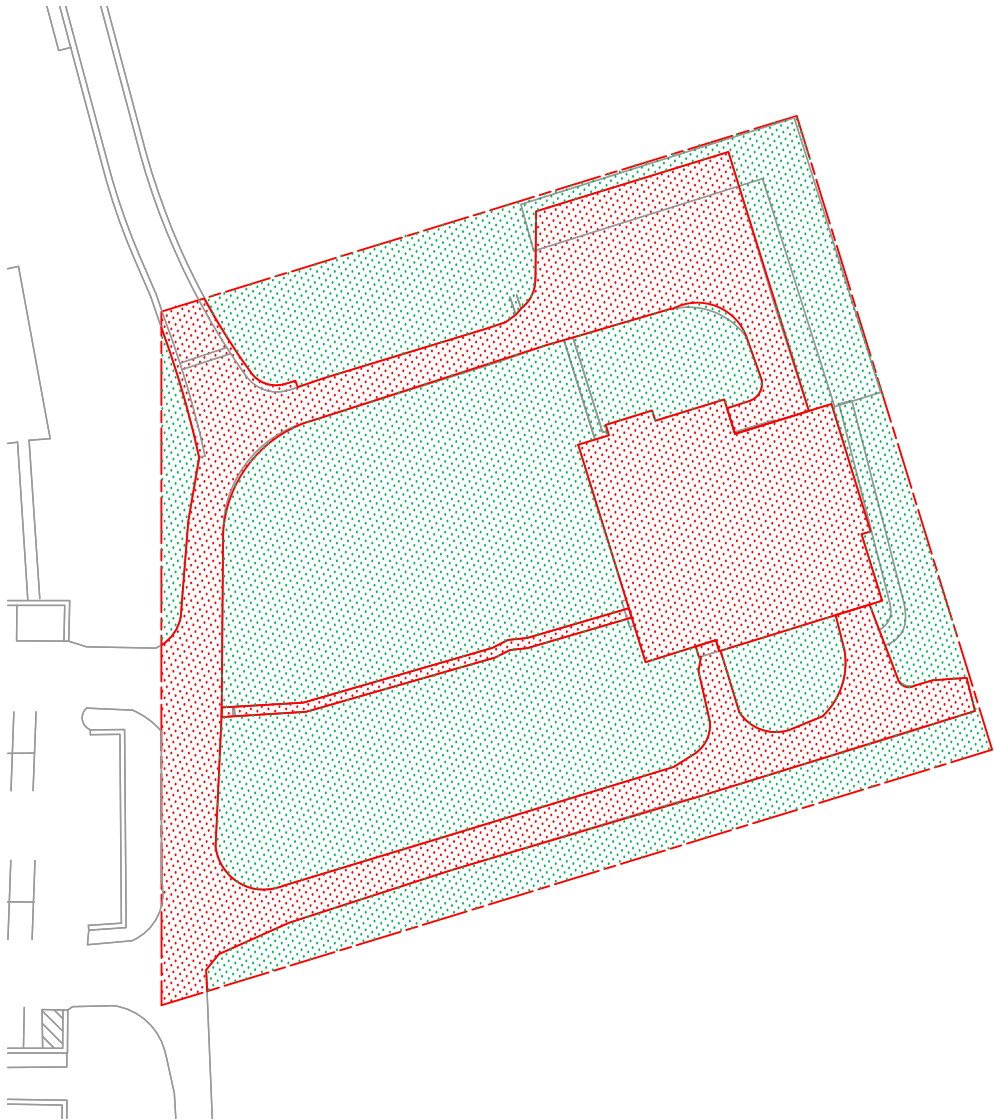
LEGEND

- PERVIOUS LAND
- IMPERVIOUS LAND

SCALE



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OUTFALL #1	
PERVIOUS AREA:	1.3 ACRES (56433 ft²)
IMPERVIOUS AREA:	0.73 ACRES (31861.77 ft²)

USGS RESTON - PERVIOUS AND IMPERVIOUS LAND - OUTFALL #1



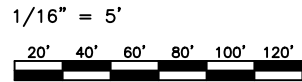
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LEGEND

- STORM WATER PIPE
- ⊙ MH MAN HOLE
- ▣ CB CATCH BASIN
- ↘ OUTFALL

SCALE



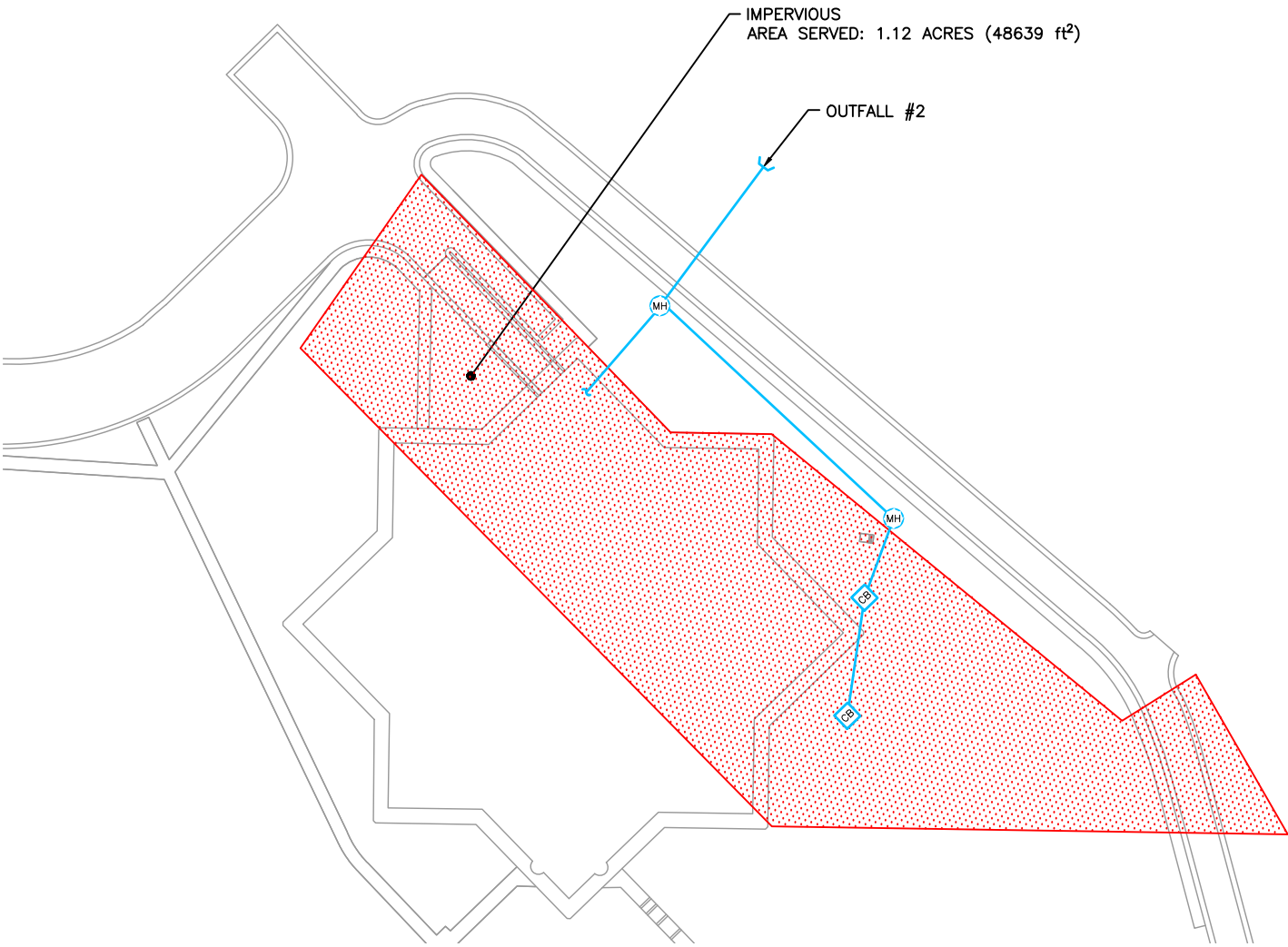
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OUTFALL #2 - VIEW UPSTREAM



OUTFALL #2 - VIEW DOWNSTREAM



OUTFALL #2 (38°56'46.6"N, 77°21'53.9"W)	
WATER RECEIVING DISCHARGES FROM OUTFALL:	SUGARLAND RUN (IMPAIRED)
HYDROLIC UNIT CODE (HUC):	HUC8 = 02070008 VAHU6 = PL21
APPROXIMATE ACREAGE SERVED:	1.12 ACRES (48639 ft²)
PREDOMINATE LAND USE:	INSTITUTIONAL
NAME OF APPROVED TMDL:	CHESAPEAKE BAY TMDL

USGS RESTON - STORM WATER DRAIN PLAN - OUTFALL #2



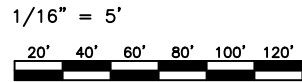
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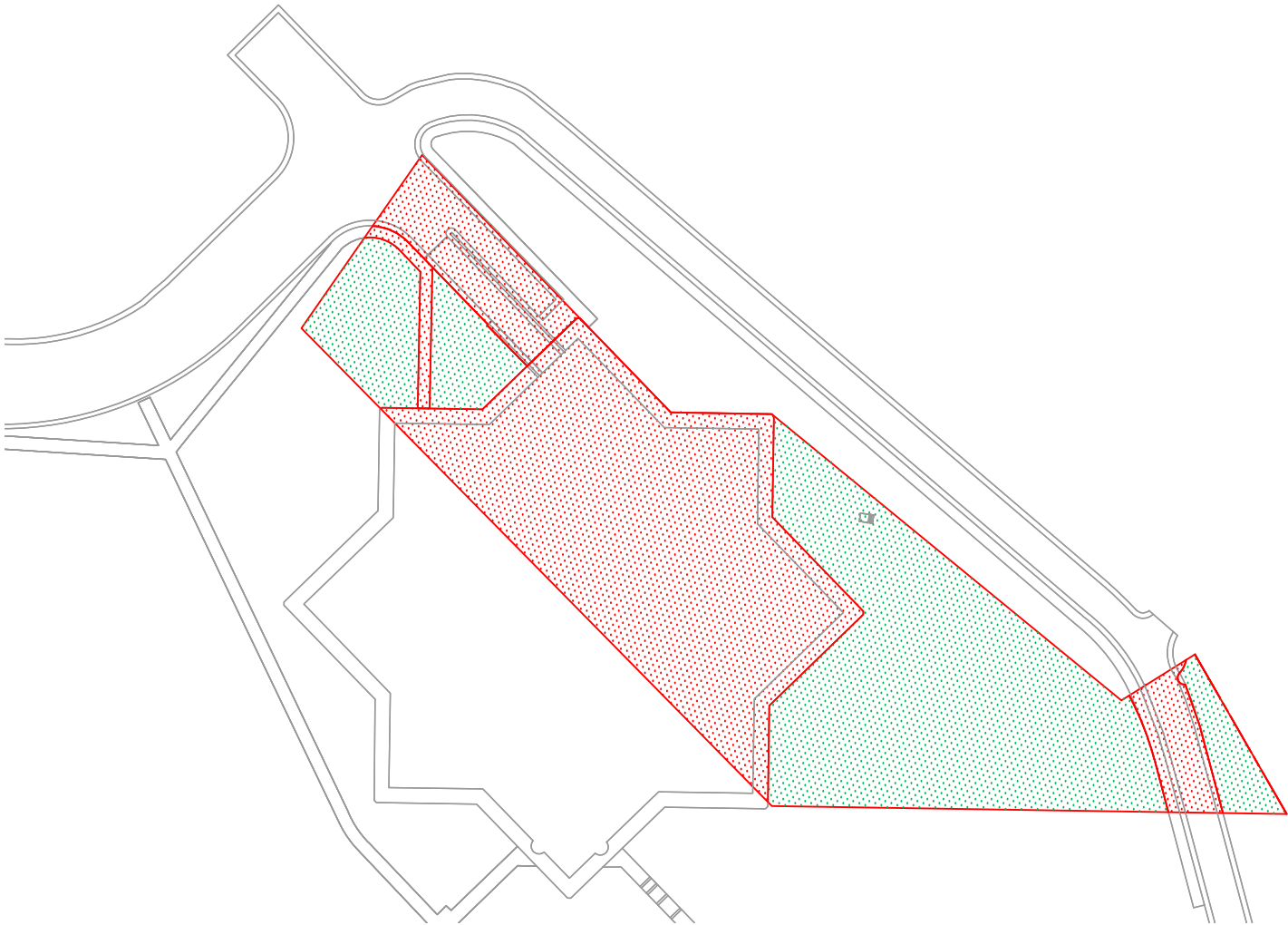
LEGEND

- PERVIOUS LAND
- IMPERVIOUS LAND

SCALE



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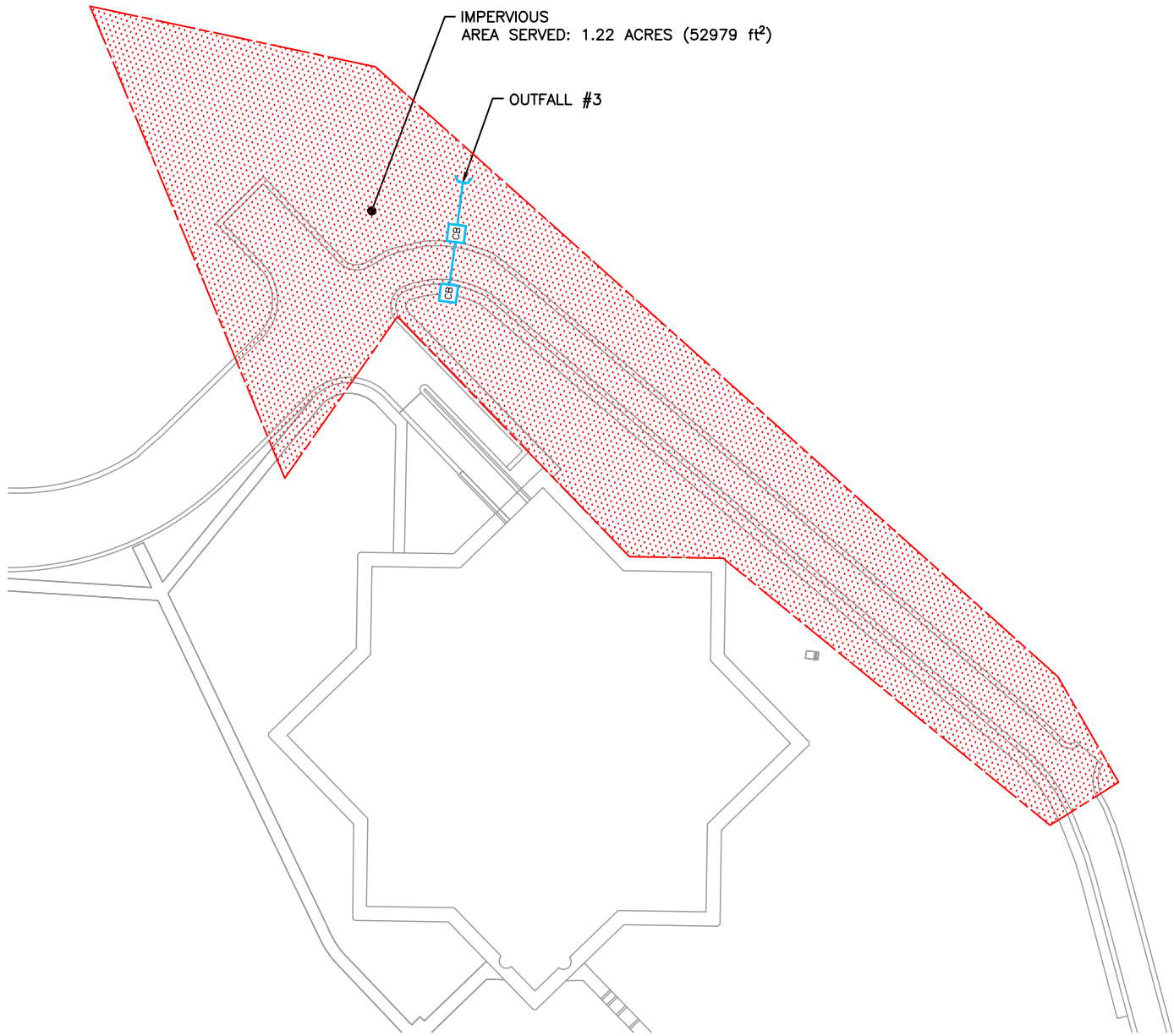
OUTFALL #2	
PERVIOUS AREA:	0.54 ACRES (23354.29 ft ²)
IMPERVIOUS AREA:	0.58 ACRES (25272.33 ft ²)



USGS RESTON - PERVIOUS AND IMPERVIOUS LAND - OUTFALL #2

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OUTFALL #3 (38°56'47.3"N, 77°21'53.8"W)	
WATER RECEIVING DISCHARGES FROM OUTFALL:	SUGARLAND RUN (IMPAIRED)
HYDROLOGIC UNIT CODE (HUC):	HUC8 = 02070008 VAHU6 = PL21
APPROXIMATE ACREAGE SERVED:	1.22 ACRES (52979 ft²)
PREDOMINATE LAND USE:	INSTITUTIONAL
NAME OF APPROVED TMDL:	CHESAPEAKE BAY TMDL

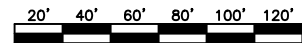
USGS RESTON - STORM WATER DRAIN PLAN - OUTFALL #3

LEGEND

- STORM WATER PIPE
- ⊙ MAN HOLE
- ▣ CATCH BASIN
- ~ OUTFALL

SCALE

1/16" = 5'



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OUTFALL #3 - VIEW UPSTREAM



OUTFALL #3 - VIEW DOWNSTREAM



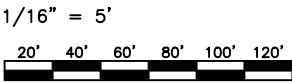
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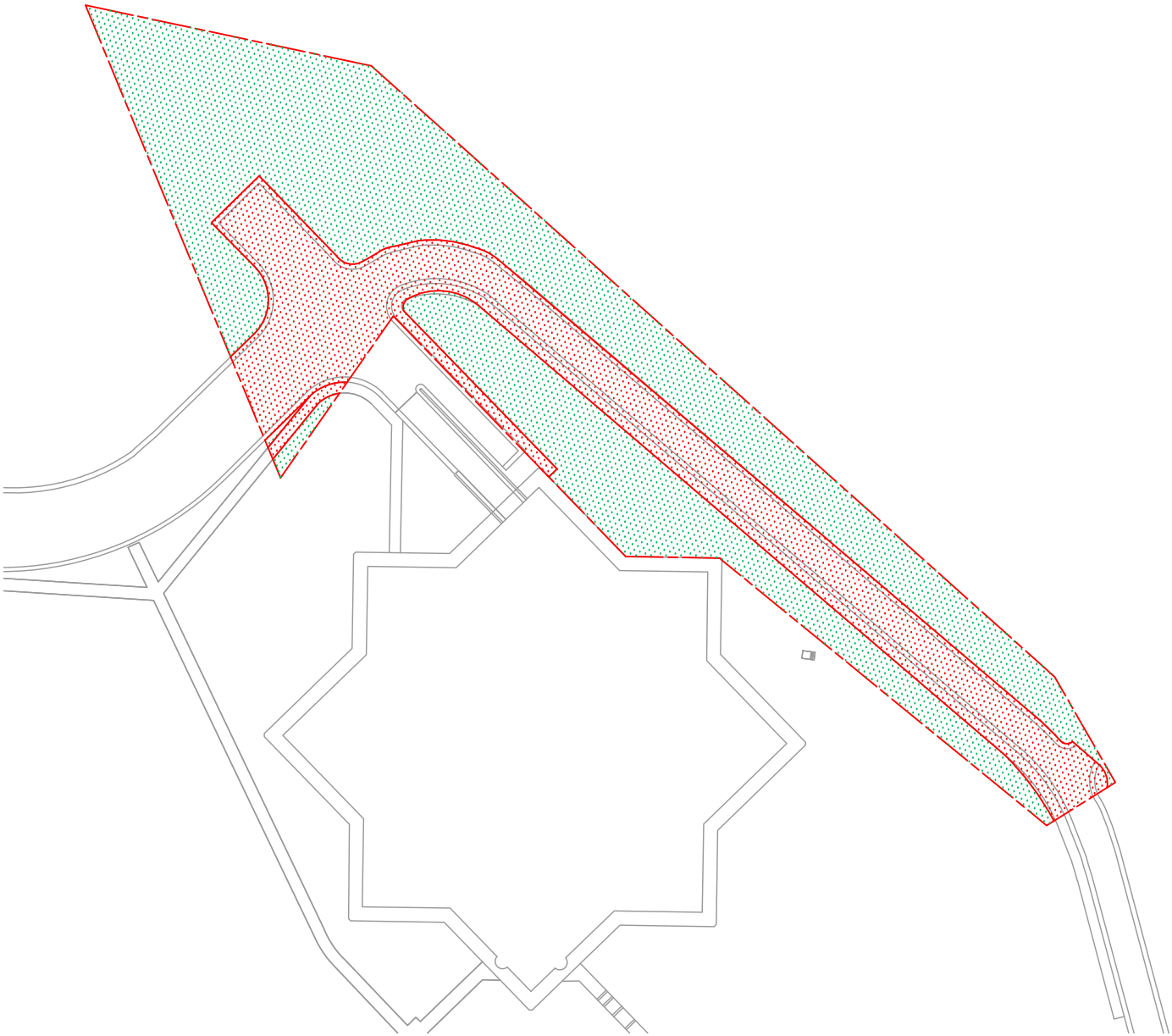
LEGEND

- PERVIOUS LAND
- IMPERVIOUS LAND

SCALE

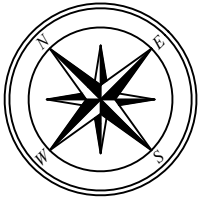


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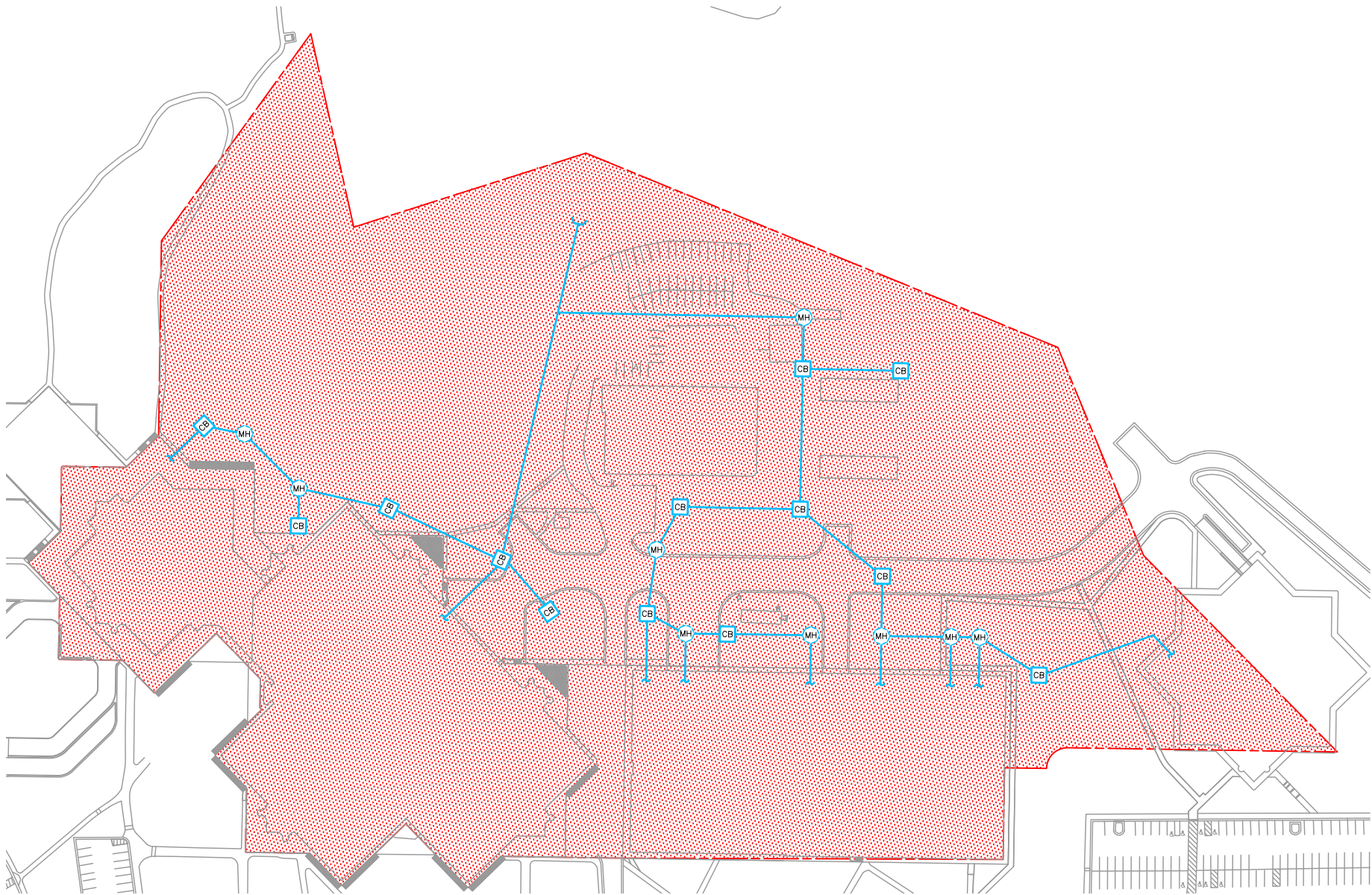
OUTFALL #3	
PERVIOUS AREA:	0.81 ACRES (35483.79 ft ²)
IMPERVIOUS AREA:	0.4 ACRES (17411.57 ft ²)

USGS RESTON - PERVIOUS AND IMPERVIOUS LAND - OUTFALL #3



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OUTFALL #4 (38°56'53.6"N, 77°21'58.5"W)	
WATER RECEIVING DISCHARGES FROM OUTFALL:	SUGARLAND RUN (IMPAIRED)
HYDROLIC UNIT CODE (HUC):	HUC8 = 02070008 VAHU6 = PL21
APPROXIMATE ACREAGE SERVED:	2.5 ACRES (780762 ft ²)
PREDOMINATE LAND USE:	INSTITUTIONAL
NAME OF APPROVED TMDL:	CHESAPEAKE BAY TMDL

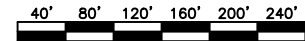
USGS RESTON - STORM WATER DRAIN PLAN - OUTFALL #4

LEGEND

- STORM WATER PIPE
- MH MAN HOLE
- CB CATCH BASIN
- ~ OUTFALL

SCALE

1/16" = 10'



SCALE ONLY ACCURATE ON 11" x 17" PRINT



OUTFALL #4 - VIEW UPSTREAM



OUTFALL #4 - VIEW DOWNSTREAM

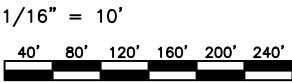


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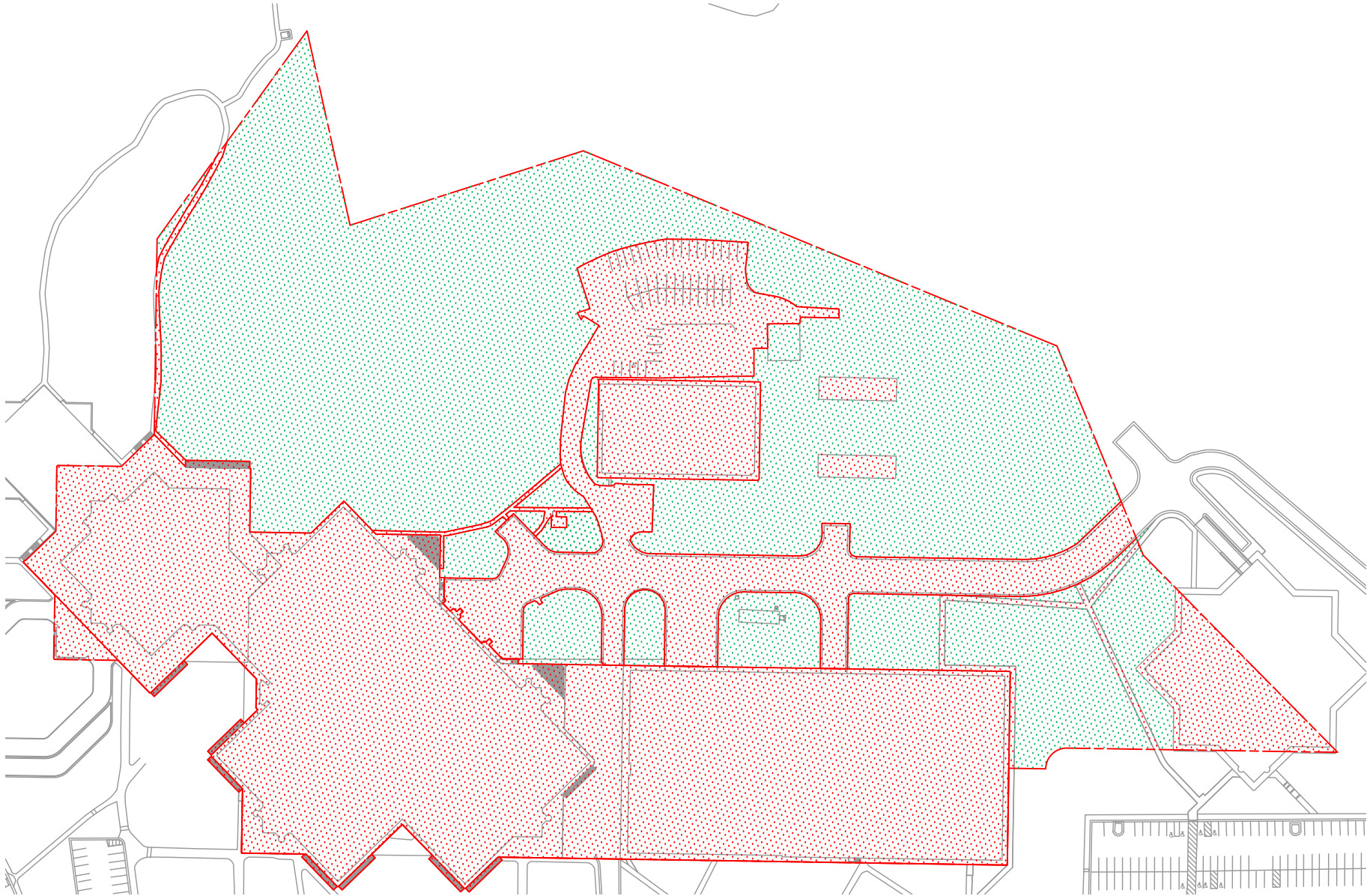
LEGEND

- PERVIOUS LAND
- IMPERVIOUS LAND

SCALE



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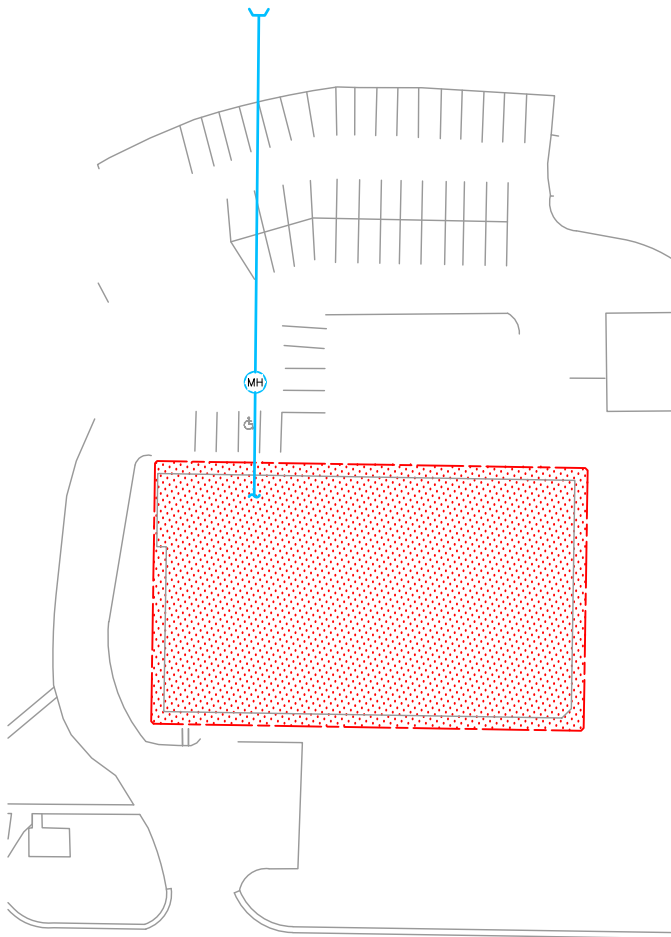
OUTFALL #4	
PERVIOUS AREA:	8.62 ACRES (375603.49 ft ²)
IMPERVIOUS AREA:	9.37 ACRES (407991.16 ft ²)

USGS RESTON - PERVIOUS AND IMPERVIOUS LAND - OUTFALL #4



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OUTFALL #5 (38°56'53.6"N, 77°21'58.2"W)	
WATER RECEIVING DISCHARGES FROM OUTFALL:	SUGARLAND RUN (IMPAIRED)
HYDROLIC UNIT CODE (HUC):	HUC8 = 02070008 VAHU6 = PL21
APPROXIMATE ACREAGE SERVED:	0.45 ACRES (19729 ft²)
PREDOMINATE LAND USE:	INSTITUTIONAL
NAME OF APPROVED TMDL:	CHESAPEAKE BAY TMDL

USGS RESTON - STORM WATER DRAIN PLAN - OUTFALL #5



OUTFALL #5 - VIEW UPSTREAM

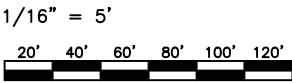


OUTFALL #5 - VIEW DOWNSTREAM

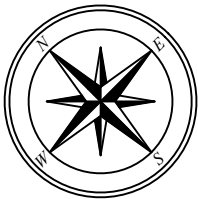
LEGEND

- STORM WATER PIPE
- ⊙ MH MAN HOLE
- ▭ CB CATCH BASIN
- ~ OUTFALL

SCALE



SCALE ONLY ACCURATE ON 11" x 17" PRINT



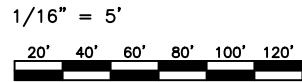
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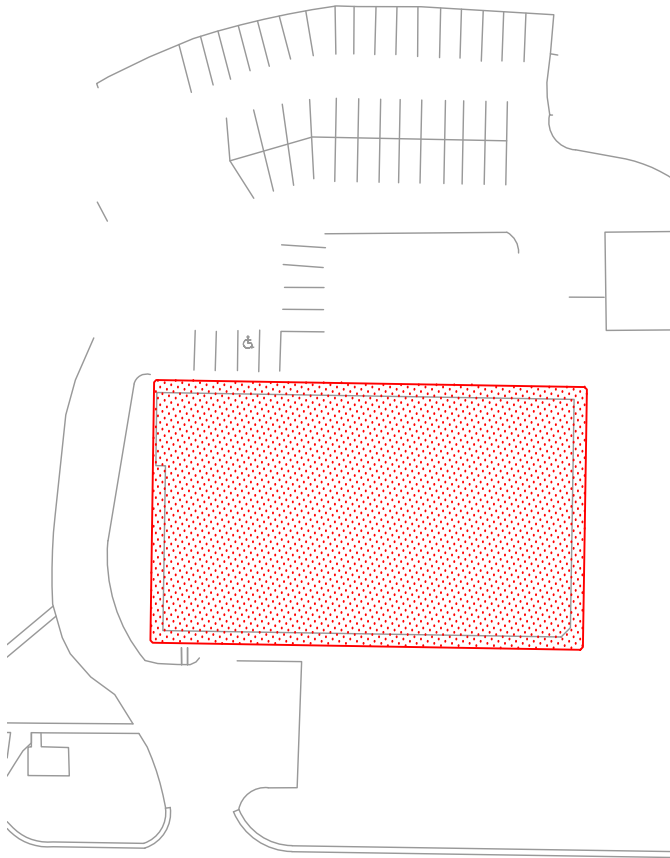
LEGEND

- PERVIOUS LAND
- IMPERVIOUS LAND

SCALE



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OUTFALL #5	
IMPERVIOUS AREA:	0.45 ACRES (19728.93 ft²)

USGS RESTON - PERVIOUS AND IMPERVIOUS LAND - OUTFALL #5



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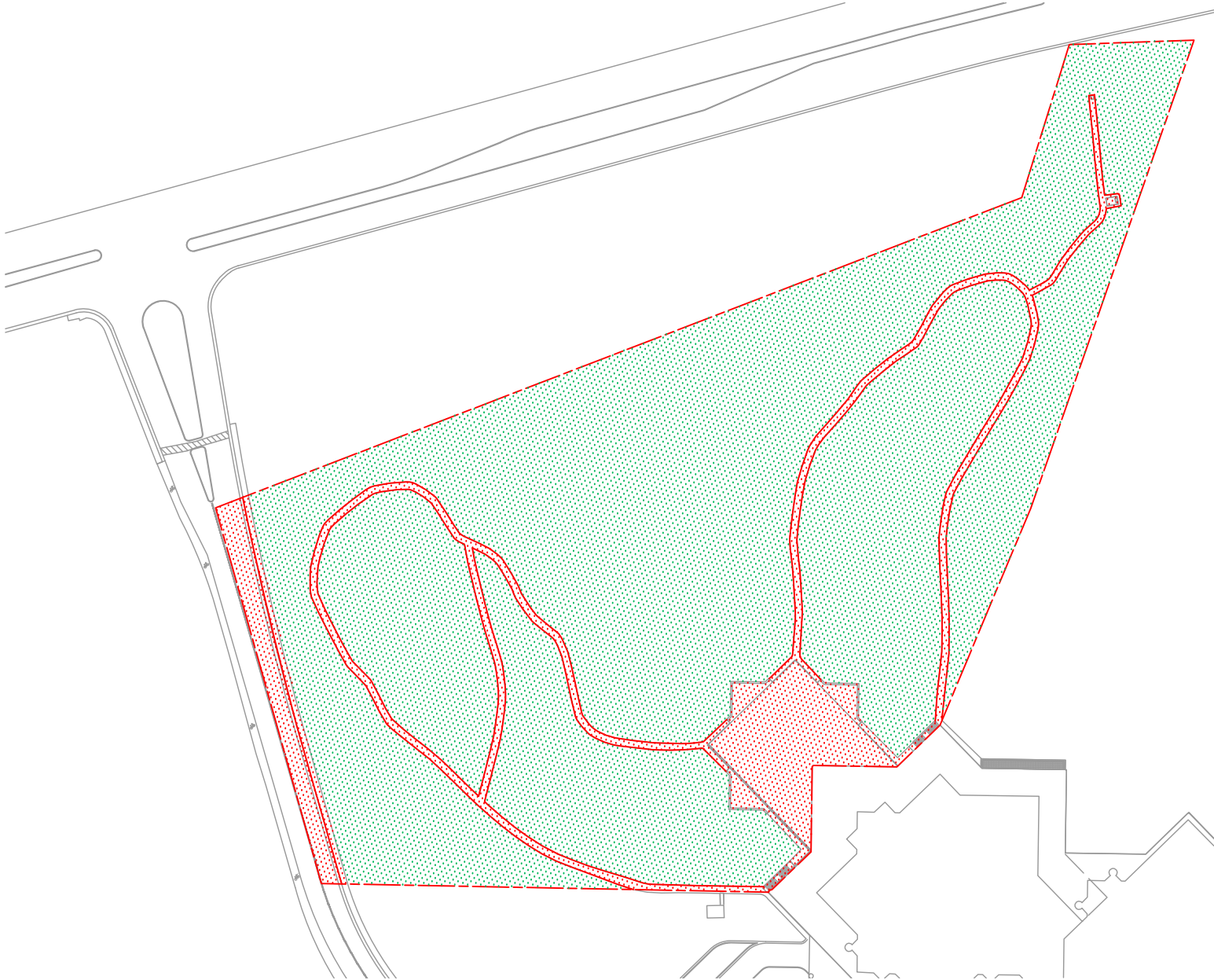


A photograph of a forest floor. A dirt path leads through a dense forest of tall, thin trees. The ground is covered with fallen leaves and some green plants. A date stamp '22.14.2015 08:07' is visible in the top right corner.

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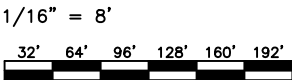
USGS RESTON - STORM WATER DRAIN PLAN - OUTFALL #6



LEGEND

- PERVIOUS LAND
- IMPERVIOUS LAND

SCALE



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OUTFALL #6	
PERVIOUS AREA:	6 ACRES (261071.15 ft ²)
IMPERVIOUS AREA:	0.8 ACRES (34894.6391 ft ²)

USGS RESTON - PERVIOUS AND IMPERVIOUS LAND - OUTFALL #6



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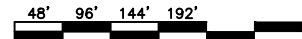
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LEGEND

- STORM WATER PIPE
- ⊙ MAN HOLE
- CATCH BASIN
- OUTFALL

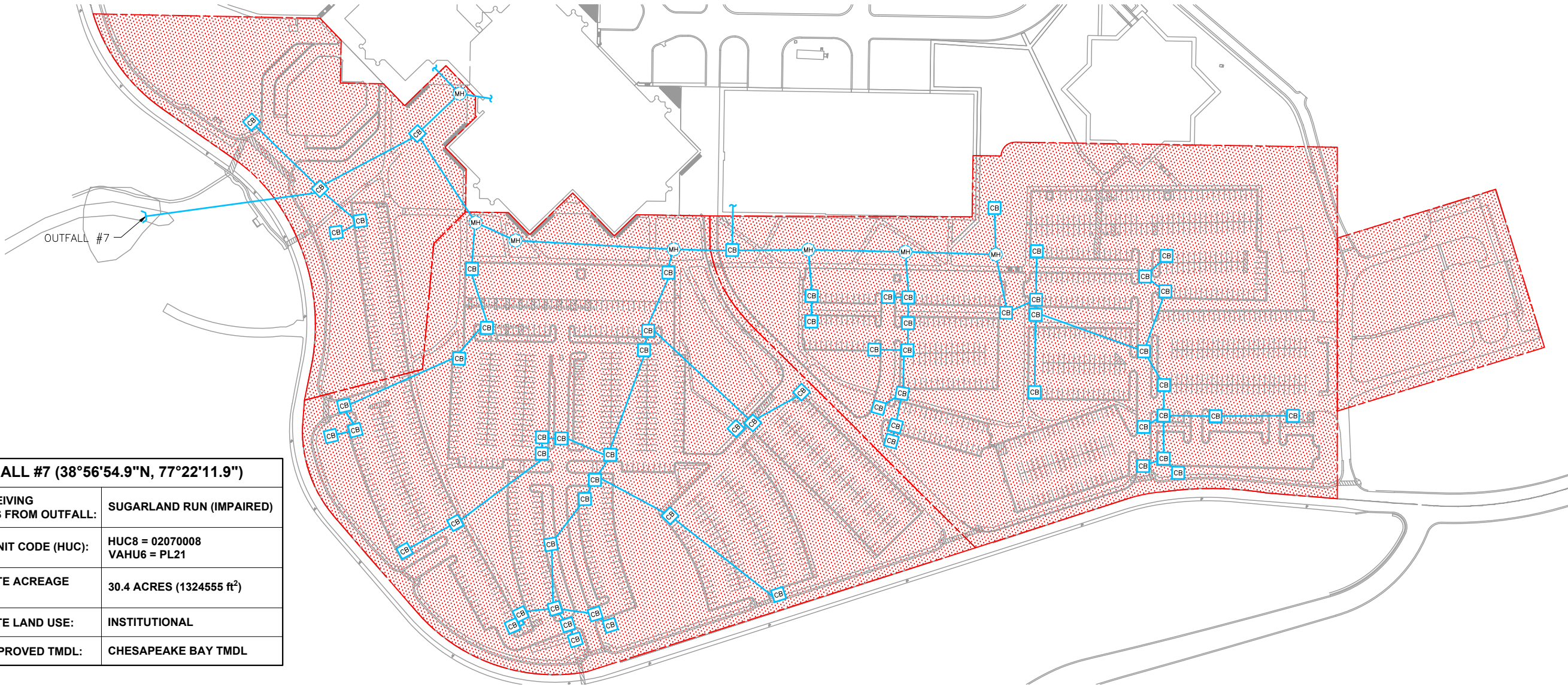
SCALE

1/16" = 12'



SCALE ONLY ACCURATE ON 11" x 17" PRINT

OUTFALL #7 (38°56'54.9"N, 77°22'11.9")	
WATER RECEIVING DISCHARGES FROM OUTFALL:	SUGARLAND RUN (IMPAIRED)
HYDROLOGIC UNIT CODE (HUC):	HUC8 = 02070008 VAHU6 = PL21
APPROXIMATE ACREAGE SERVED:	30.4 ACRES (1324555 ft²)
PREDOMINATE LAND USE:	INSTITUTIONAL
NAME OF APPROVED TMDL:	CHESAPEAKE BAY TMDL



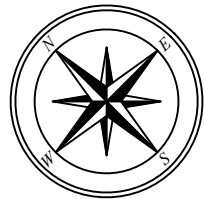
USGS RESTON - STORM WATER DRAIN PLAN - OUTFALL #7



OUTFALL #7 - VIEW UPSTREAM



OUTFALL #7 - VIEW DOWNSTREAM



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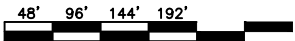
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RESTON, VIRGINIA

LEGEND

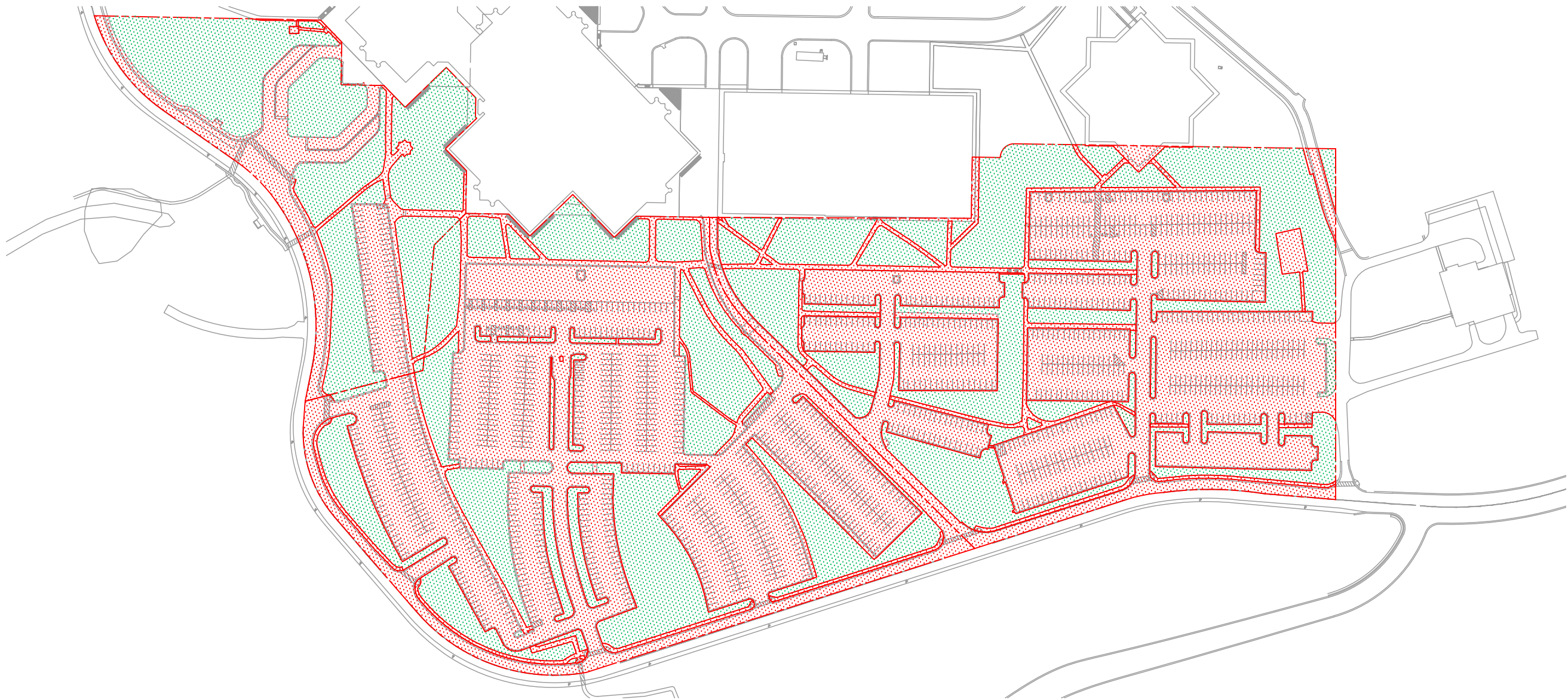
- PERVIOUS LAND
- IMPERVIOUS LAND

SCALE

1/16" = 12'



SCALE ONLY ACCURATE ON 11" x 17" PRINT



OUTFALL #7	
PERVIOUS AREA:	11.3 ACRES (494264.23 ft ²)
IMPERVIOUS AREA:	17 ACRES (739891.03 ft ²)

USGS RESTON - PERVIOUS AND IMPERVIOUS LAND - OUTFALL #7






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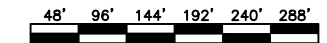
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RESTON, VIRGINIA



LEGEND

-  AREA DRAINING TO POND
-  INFILTRATION TRENCH
-  BIORETENTION CELL

SCALE

$$1/16'' = 12'$$


****SCALE ONLY ACCURATE ON 11" x 17" PRINT****

[illegible]

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RESTON, VIRGINIA

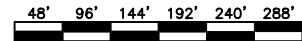
USGS RESTON - STORM WATER DRAIN PLAN - INFILTRATION TRENCH AND BIORETENTION CELL

LEGEND

- PERVIOUS LAND
- IMPERVIOUS LAND

SCALE

1/16" = 12'



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INFILTRATION TRENCH

IMPERVIOUS AREA: 2.8 ACRES (122131.64 ft²)



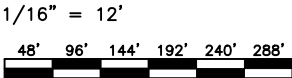
USGS RESTON - INFILTRATION TRENCH - PERVIOUS AND IMPERVIOUS AREA LAYOUT

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LEGEND

- PERVIOUS LAND
- IMPERVIOUS LAND

SCALE



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INFILTRATION TRENCH	
PERVIOUS AREA:	0.13 ACRES (5460.87 ft²)
IMPERVIOUS AREA:	0.64 ACRES (27780.06 ft²)



USGS RESTON - BIORENTENTION CELL - PERVIOUS AND IMPERVIOUS AREA LAYOUT

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CONTROLLED UNCLASSIFIED INFORMATION

 PERVIOUS LAND
 IMPERVIOUS LAND

$$1/16'' = 12'$$

48'	96'	144'	192'	240'	288'

****SCALE ONLY ACCURATE ON 11" x 17" PRINT****

INFILTRATION TRENCH

PERVIOUS AREA:	13.2 ACRES (575431.624 ft ²)
IMPERVIOUS AREA:	20.3 ACRES (886660.09 ft ²)

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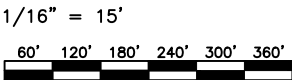
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RESTON, VIRGINIA

USGS RESTON - POND - PERVIOUS AND IMPERVIOUS AREA LAYOUT

LEGEND

- PERVIOUS LAND
- IMPERVIOUS LAND

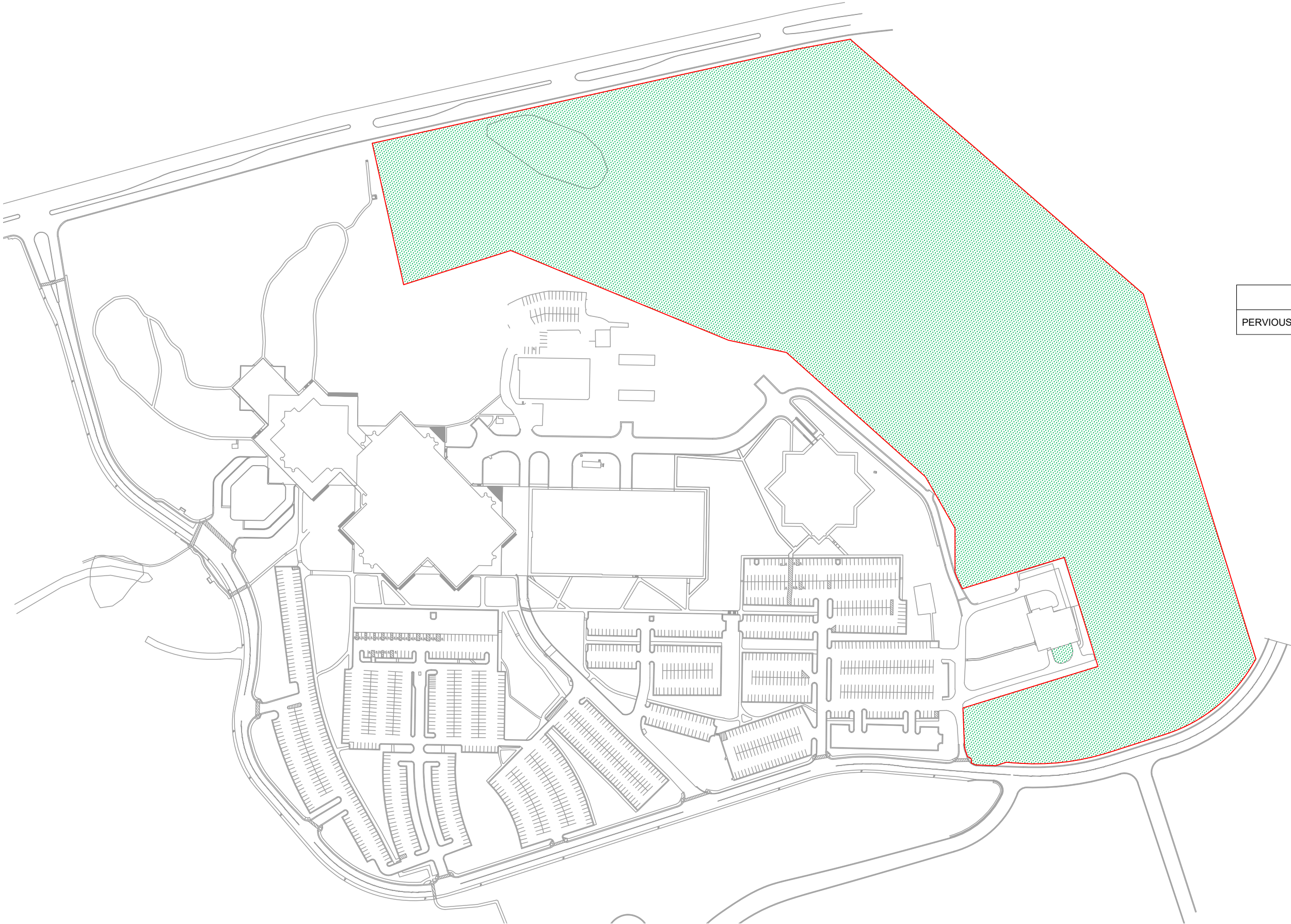
SCALE



SCALE ONLY ACCURATE ON 11" x 17" PRINT

FORESTED AREA

PERVIOUS AREA:	34.3 ACRES (1492005.82 ft ²)
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USGS RESTON - FORESTED AREA

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