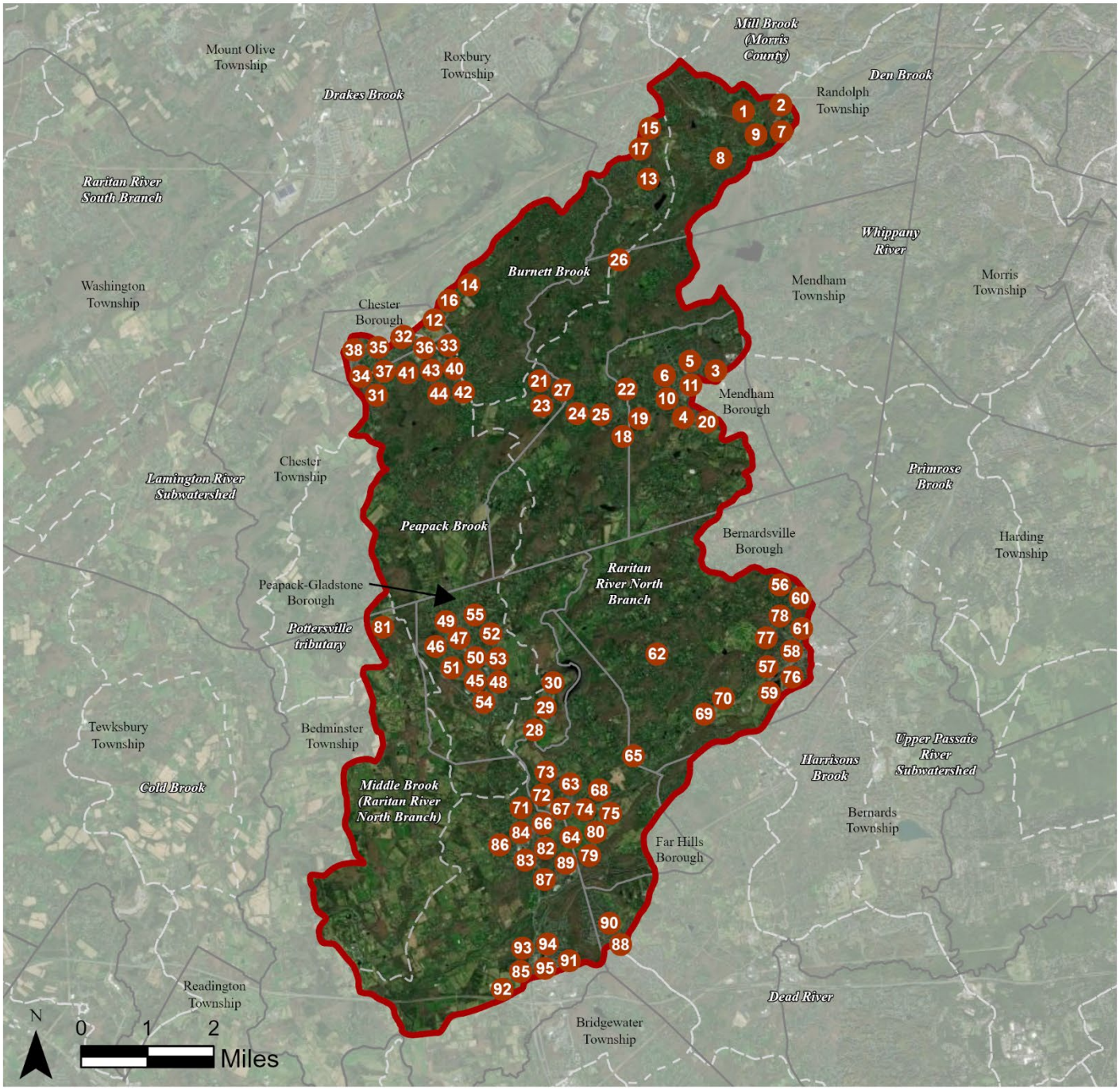
Appendix C

Concept Plans for Potential Green Infrastructure Projects

NORTH BRANCH RARITAN RIVER WATERSHED: GREEN INFRASTRUCTURE SITES



1. Brundage Park
2. Freedom Park
3. Grace Lutheran Church
4. Mendham Borough Library
5. Mendham Borough Park
6. Mendham Recreation Department
7. Randolph Township Fire Department
8. Randolph Township Library and Community Center
9. Resurrection Parish
10. St. Joseph's School
11. St. Mark's Episcopal Church
12. Chester Borough Office
13. Heistein Park
14. Highlands Ridge Park
15. Ironia Elementary School
16. New Jersey Highlands Council
17. Randolph Township Fire Department #4
18. Community of St. John Baptist
19. Daytop Preparatory School
20. Hilltop Presbyterian Church
21. Mendham Animal Hospital
22. Mendham Borough Public Works Garage
23. Mendham Hills Community Church
24. Ralston Engine Company No. 1
25. Ralston Field
26. Randolph Regional Animal Shelter
27. Westmont Montessori School
28. Natirar Park
29. The Cooking School at Natirar
30. The Matheny School
31. Boro of Chester Recreation Office
32. Chase Bank
33. Chester Borough Park
34. Chester Diner
35. Chester Fire Company
36. Chester Tennis Club
37. Community Presbyterian Church
38. First Congregational Church
39. United States Postal Service
40. American Legion Post 342
41. Bragg School and Dickerson School
42. Hudson City Savings Bank
43. Iandoli & Edens Attorneys at Law
44. Pizza & Bagels 24
45. Bailey Funeral Home
46. Gladstone Tavern
47. Murphy Capital Management
48. Peapack and Gladstone Library Branch and Police Department
49. Peapack Fire Department
50. Peapack Reformed Church
51. Peapack-Gladstone Bank
52. Peapack-Gladstone First Aid Squad
53. Saint Luke's Episcopal Church
54. St. Brigid Roman Catholic Church
55. USPS
56. Bedwell Elementary School
57. Bernardsville Fire Company
58. Bernardsville Library
59. Bernardsville Municipal Court & Nervine Park
60. Bernardsville Municipal Pool
61. Bernardsville School of Music
62. Church of Saint John of the Mountain
63. Edible Arrangements
64. Express Yourself Salon
65. Far Hills Country Day School
66. Far Hills Fairgrounds
67. Far Hills Police Department
68. Far Hills Station
69. First Church of Christ
70. Good Shepherd Church
71. Grace Chapel
72. Joseph D'Apolito & Son
73. Living Plate
74. M&M Perrotti's Prepared Foods
75. Peapack-Gladstone Bank
76. Sacred Heart Chapel
77. Saint Bernard's Church
78. School of Saint Elizabeth
79. Turpin Real Estate
80. Wealth Planning Advisors
81. Resurgent Church
82. Bedminster Public School
83. Bedminster Municipal Court
84. Bedminster USPS
85. Burnt Mills Park
86. Clarence Dillon Public Park
87. Far Hills-Bedminster Fire Department
88. Fulton Bank of New Jersey
89. Miller Lane Park
90. Mount Prospect School
91. Pluckemin USPS
92. Somerset Hills Learning Institute
93. Sordoni Construction Company
94. The Hills Village Center
95. The Pluckemin Inn

1. BRUNDAGE PARK

Subwatershed: **Raritan River North Branch**

HUC14 ID: **02030105060010**

Site Area: **818,135 sq. ft.**

Address: **43 North Bungalow Lane**
Randolph, NJ 07869

Block and Lot: **Block 86, Lot 56**

Rain gardens can be installed in multiple grass areas around the property to capture, treat, and infiltrate stormwater runoff from the rooftops of the park buildings. This may require downspout redirections and disconnections. A gutter system will need to be installed on the pavilion for the northern rain garden. Existing parking spaces in the northern lot can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. The tennis and basketball courts can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the courts. A cistern can be installed to the northeast of the southern park building to divert and detain the stormwater runoff from the rooftop for later non-potable reuse such as washing vehicles. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
27	217,150	10.5	109.7	997.0	0.169	6.77

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	3,235	0.096	13	6,750	0.25	810	$8,100
Pervious pavement	87,850	2.601	384	183,240	6.89	61,430	$1,535,750
Rainwater harvesting	285	0.008	2	300	0.01	300 (gal)	$900

GREEN INFRASTRUCTURE RECOMMENDATIONS

Brundage Park

- bioretention system
- pervious pavement
- rainwater harvesting
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 50' 100'

2. FREEDOM PARK

Subwatershed: **Den Brook**

Site Area: **4,398,539 sq. ft.**

Address: **630 Millbrook Avenue**
Randolph, NJ 07869

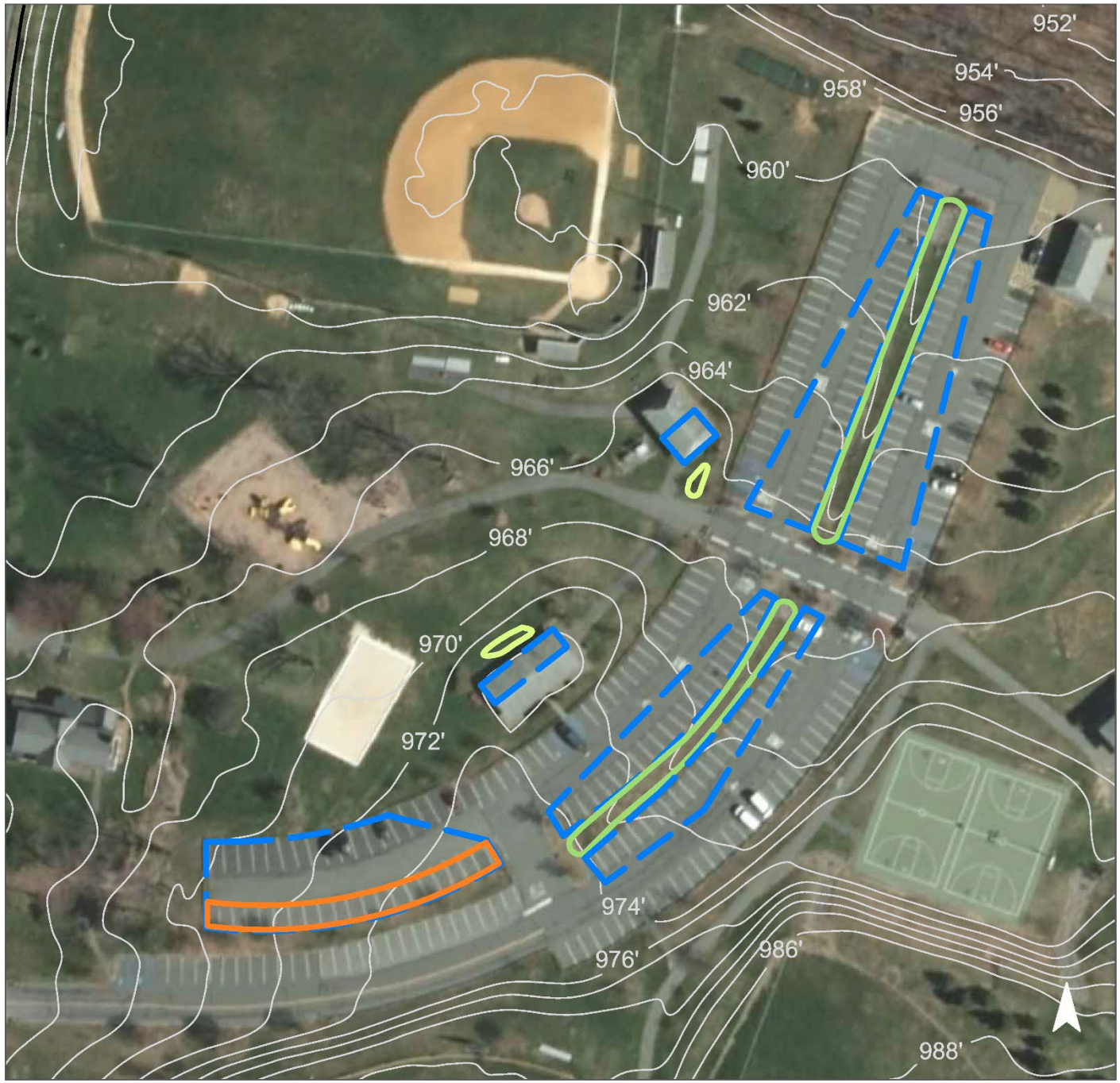
Block and Lot: **Block 119 | Lot 15. 01, 115.02, 101.01, 116.01**

Bioretention systems can be installed near the park buildings to manage their rooftop areas. The existing swales in the center of the parking lot can be retrofitted with bioswales to enhance infiltration and slow down the stormwater runoff from the parking lot area. Pervious pavement can be installed in the northwest corner of the parking lot to capture additional stormwater runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
8	348,578	16.8	176.0	1,600.4	0.272	9.56

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.039	7	3,080	0.12	380	$1,900
Bioswales	0.305	73	21,880	0.35	5,850	$146,250
Pervious pavement	0.266	44	20,770	0.78	3,530	$88,250

GREEN INFRASTRUCTURE RECOMMENDATIONS



Freedom Park

- bioretention system
- bioswale
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

3. GRACE LUTHERAN CHURCH

Subwatershed: Raritan River North Branch

HUC14 ID: 02030105060010

Site Area: 88,239 sq. ft.

Address: 65 East Main Street
Mendham Borough, NJ 07945

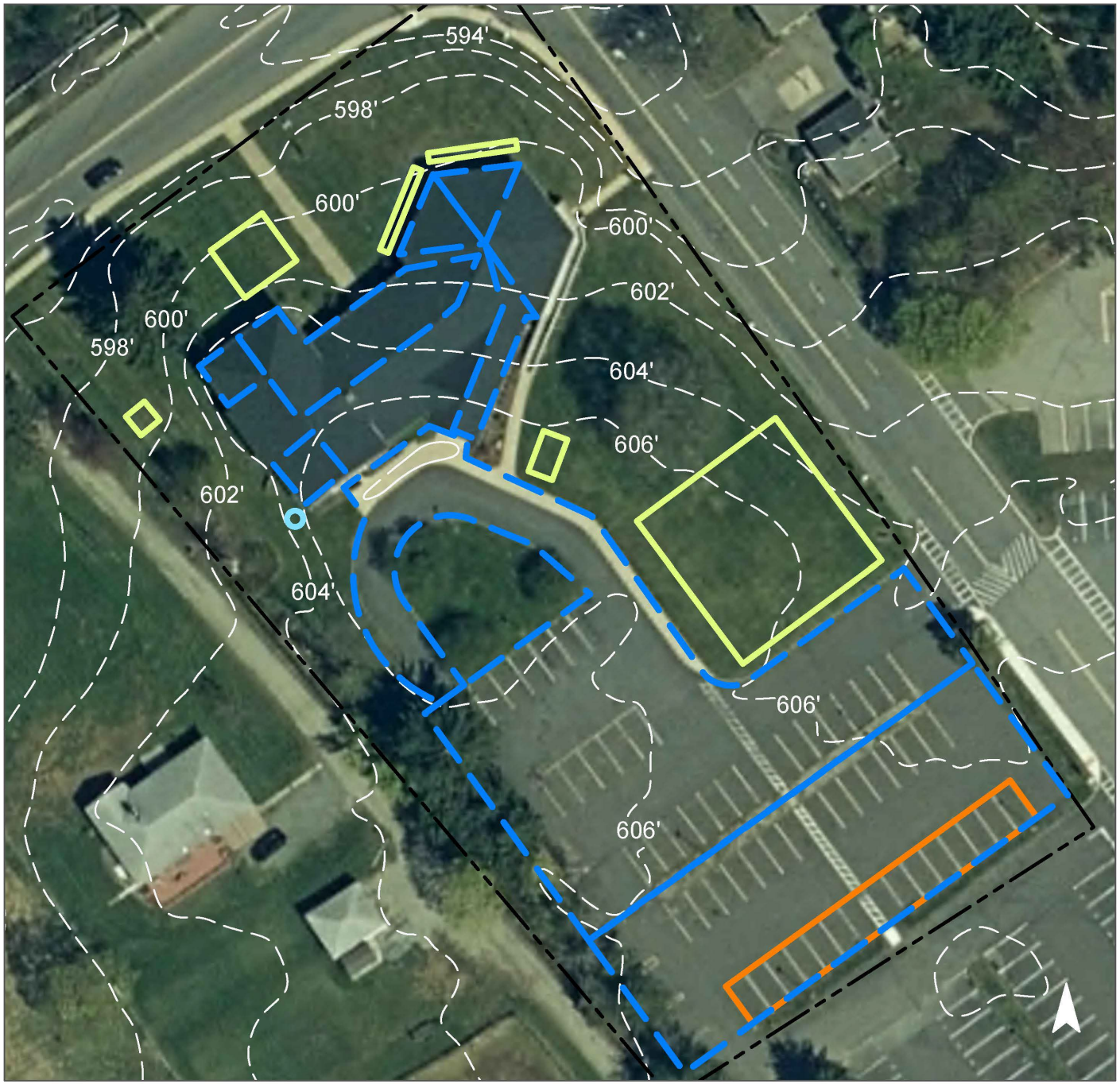
Block and Lot: Block 1401, Lot 68

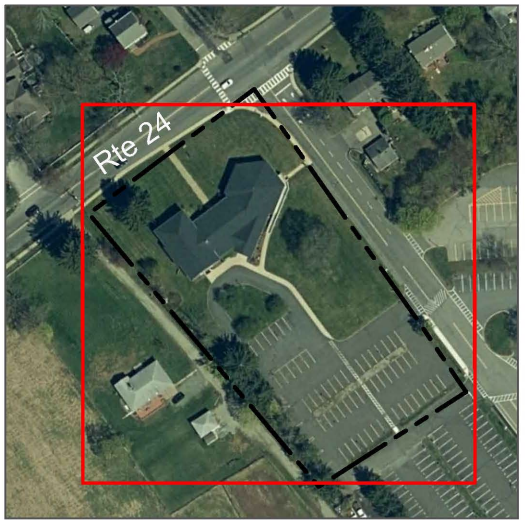
Rain gardens can be installed in multiple grass areas around the property to capture, treat, and infiltrate the stormwater runoff from the rooftop and parking lot. These may require downspout disconnections, redirection of downspouts underneath the sidewalk, trench drains, and curb cuts. The southernmost parking spaces can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt lot. A trench drain may be required. A cistern can be installed to the southwest of the building to divert and detain the stormwater runoff from the rooftop for later non-potable reuse such as watering garden beds. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
53	47,168	2.3	23.8	216.6	0.037	1.47

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	23,315	0.690	103	48,630	1.83	5,830	$58,300
Pervious pavement	11,905	0.352	51	24,830	0.93	2,485	$62,125
Rainwater harvesting	400	0.012	2	350	0.01	350 (gal)	$1,050

GREEN INFRASTRUCTURE RECOMMENDATIONS





Grace Lutheran Church

- bioretention system
- pervious pavement
- rainwater harvesting
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 30' 60'

4. MENDHAM BOROUGH LIBRARY

Subwatershed: Raritan River North Branch

Site Area: 18,324 sq. ft.

Address: 10 Hilltop Road
Mendham, NJ 07945

Block and Lot: Block 1501, Lot 37

The rooftop drainage area can be treated by the installation of downspout planter boxes around the building near downspouts. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
74	13,553	0.7	6.8	62.2	0.011	0.37

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Planter boxes	n/a	2	n/a	n/a	3 (boxes)	$3,000

GREEN INFRASTRUCTURE RECOMMENDATIONS

Mendham Borough Library

- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

5. MENDHAM BOROUGH PARK

Subwatershed: Raritan River North Branch

HUC14 ID: 02030105060010

Site Area: 622,058 sq. ft.

Address: 8 Orchard Street
Mendham Borough, NJ
07945

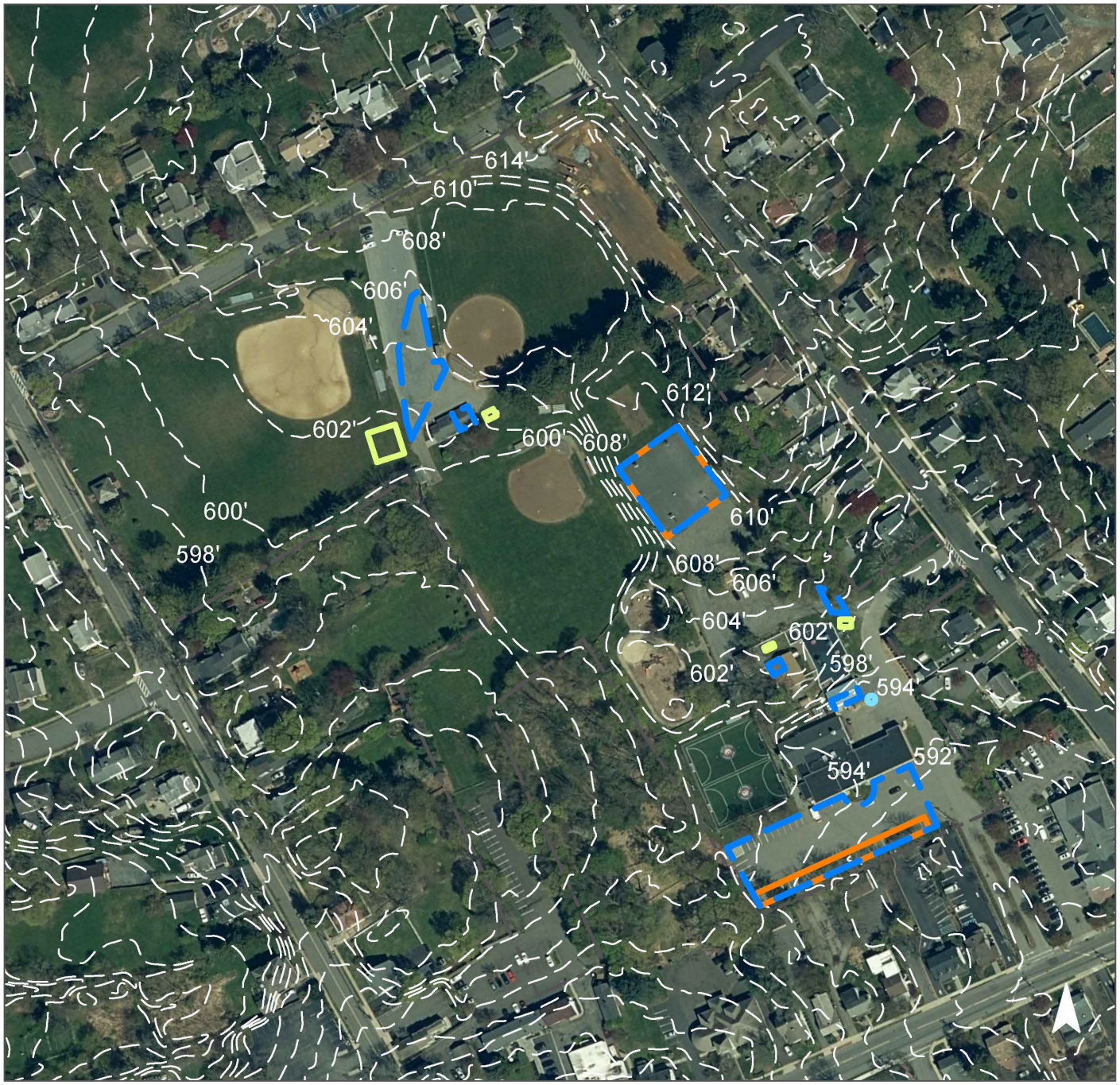
Block and Lot: Block 601, Lot 16

Rain gardens can be installed in multiple grass areas around the property to capture, treat, and infiltrate the stormwater runoff from rooftops, a driveway, and a parking lot. Downspout redirection and redirection beneath a sidewalk may be required. The rain garden to the east of the carriage house can be constructed around the nearby catch basin. Parking spaces to the south of fire department can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt lot. The basketball court can also be converted into pervious pavement to capture and infiltrate stormwater runoff from the court. A cistern can be installed to the south of the shed near the fire department to divert and detain the stormwater runoff from the rooftop for later non-potable reuse such as washing vehicles. A gutter system would need to be installed on the structure. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
30	188,732	9.1	95.3	866.5	0.147	5.88

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	25,860	0.766	112	53,940	2.03	6,465	$64,650
Pervious pavement	32,170	0.953	141	67,100	2.52	14,600	$365,000
Rainwater harvesting	455	0.013	2	400	0.02	400 (gal)	$1,200

GREEN INFRASTRUCTURE RECOMMENDATIONS



Mendham Borough Park

- bioretention system
- pervious pavement
- rainwater harvesting
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 100' 200'

6. MENDHAM RECREATION DEPARTMENT

Subwatershed: Raritan River North Branch

Site Area: 8,097 sq. ft.

Address: 2 West Main Street
Mendham, NJ 07945

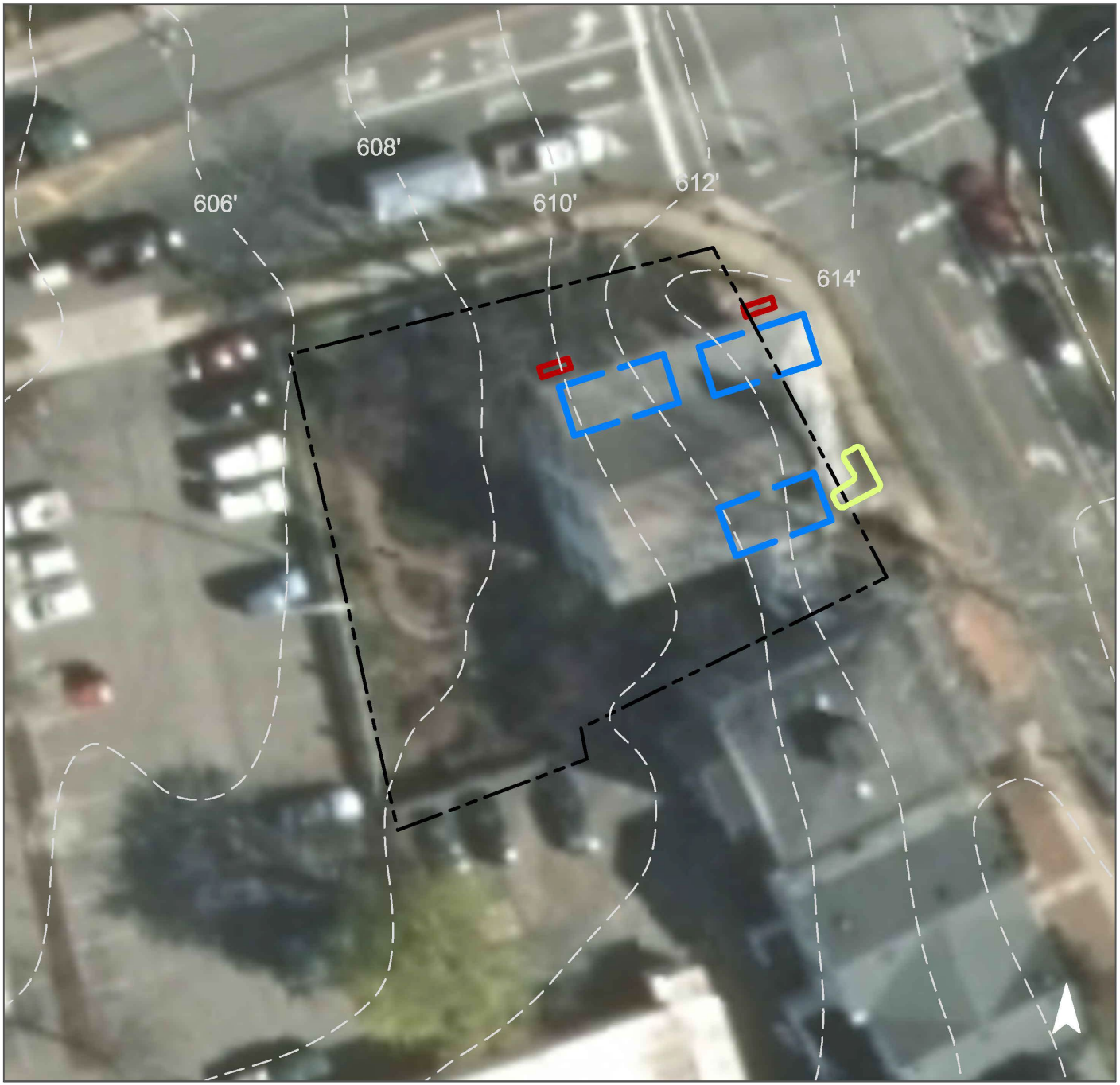
Block and Lot: Block 1902, Lot 24

A section of the rooftop runoff can be treated with a small rain garden, and two additional sections of the roof can be treated with two downspout planter boxes. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
84	6,778	0.3	3.4	31.1	0.005	0.19

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.005	1	380	0.01	55	$275
Planter boxes	n/a	2	n/a	n/a	2 (boxes)	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Mendham Recreation Department

- bioretention system
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

7. RANDOLPH TOWNSHIP FIRE DEPARTMENT COMPANY #3

Subwatershed: Raritan River

Site Area: 199,614 sq. ft.

Address: 670 Millbrook Avenue
Randolph, NJ 07869

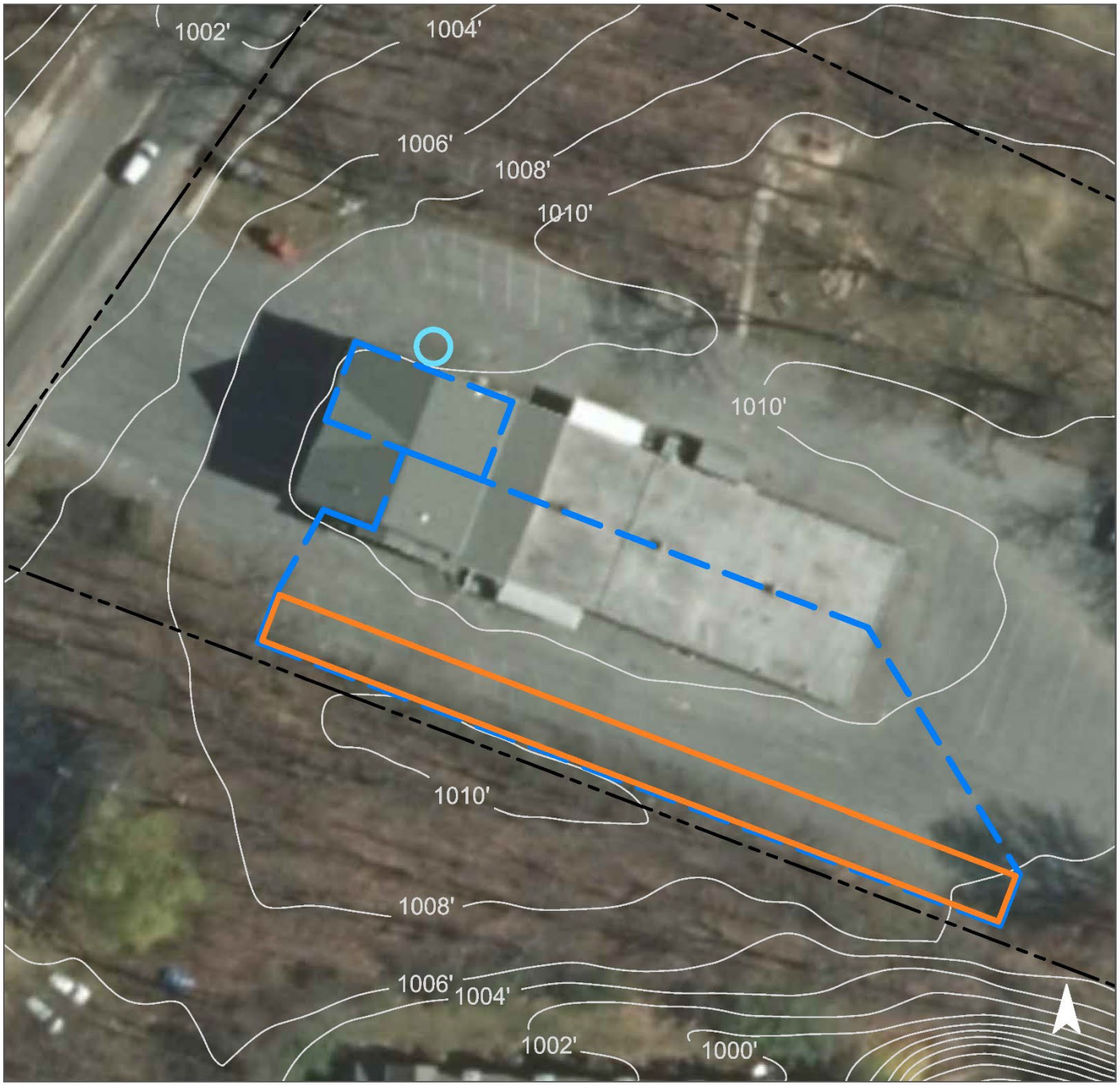
Block and Lot: Block 119 | Lot 114.01

Parking spaces along the south end of the building near multiple disconnected downspouts can be converted to pervious pavement to capture and infiltrate stormwater runoff from the parking lot and rooftop areas. A cistern can be installed on the north side of the building near a disconnected downspout to capture rainwater that can be used for watering gardens, washing vehicles, or for other non-potable uses. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
35	70,861	3.4	35.8	325.3	0.055	1.94

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.438	73	34,210	1.29	4,680	$117,000
Rainwater harvesting	0.039	7	1,200	0.05	1,200 (gal)	$2,400

GREEN INFRASTRUCTURE RECOMMENDATIONS



Randolph Township Fire Department Company #3

- pervious pavement
- rainwater harvesting
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

8. RANDOLPH TOWNSHIP LIBRARY & COMMUNITY CENTER

Subwatershed: Raritan River

Site Area: 431,087 sq. ft.

Address: 30 Calais Road
Randolph, NJ 07869

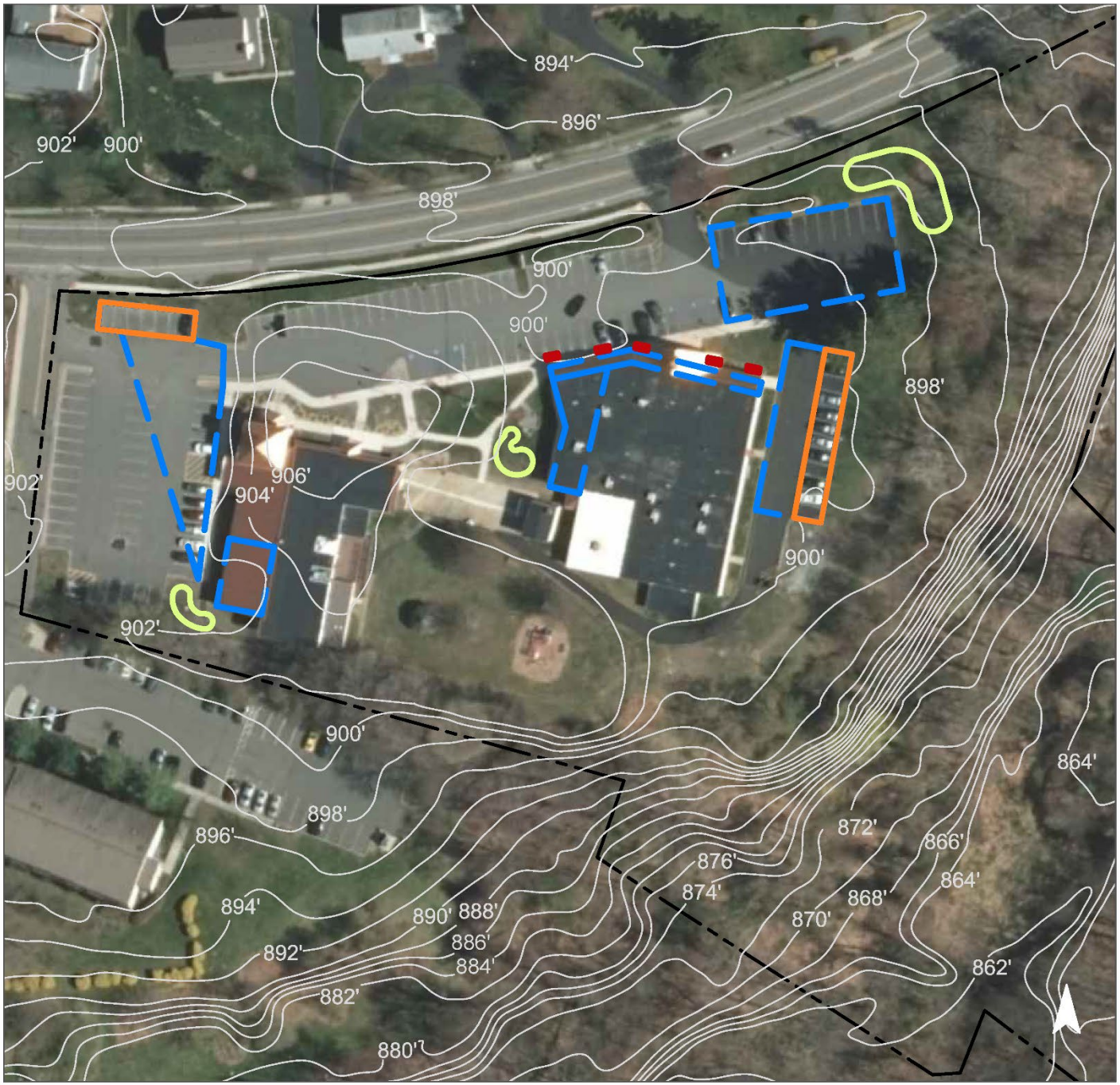
Block and Lot: Block 93 | Lot 3

Five downspout planter boxes can be installed on the north end of the library to filter the rooftop drainage area and beautify the area. Pervious pavement can be installed in the parking areas to capture and infiltrate stormwater runoff from the parking lot. Bioretention systems can be installed to manage areas from the rooftop by redirecting downspouts and from the parking lot by creating curb cuts. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
28	121,846	5.9	61.5	559.4	0.095	3.34

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.269	45	21,030	0.79	2,590	$12,950
Planter boxes	0.028	5	n/a	n/a	5 (boxes)	$5,000
Pervious pavement	0.327	55	25,580	0.96	2,450	$61,250

GREEN INFRASTRUCTURE RECOMMENDATIONS



Randolph Township Library & Community Center

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

9. RESURRECTION PARISH

Subwatershed: **Raritan River**

Site Area: **347,087 sq. ft.**

Address: **651 Millbrook Avenue**
Randolph, NJ 07869

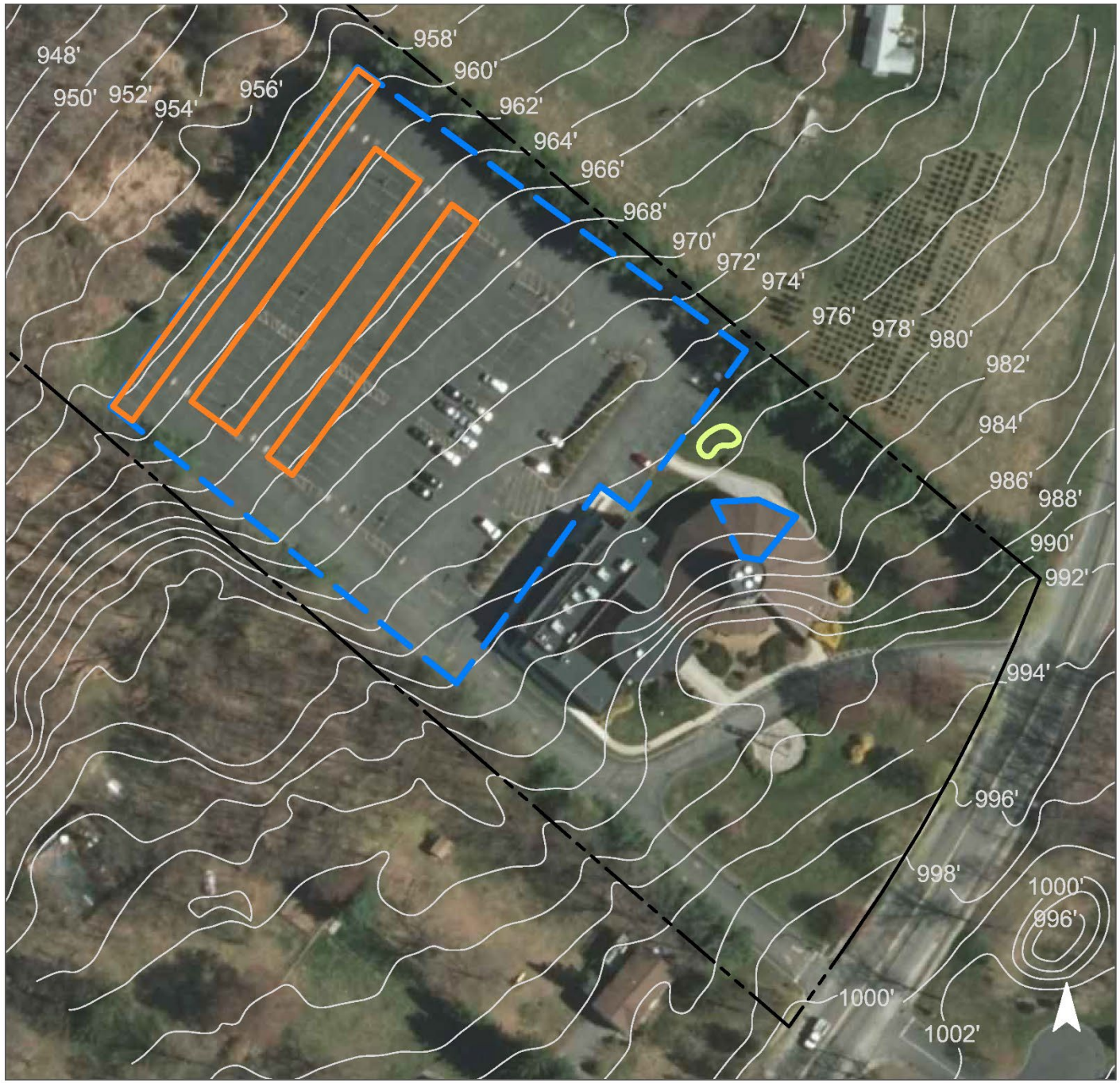
Block and Lot: **Block 82 | Lot 40**

A rain garden can be installed on the north side of the building near the connected downspouts. The connected downspouts can be disconnected and led into the rain garden to capture, treat, and infiltrate stormwater runoff from the roof. The parking spaces in the parking lot can be retrofitted into pervious pavement to capture a large volume of stormwater running off from the parking lot during storm events. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
35	120,730	5.8	61.0	554.3	0.094	3.31

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.033	6	2,590	0.10	320	$1,600
Pervious pavement	2.210	370	172,740	6.49	16,430	$410,750

GREEN INFRASTRUCTURE RECOMMENDATIONS



Resurrection Parish

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

10. ST. JOSEPH'S SCHOOL

Subwatershed: Raritan River North Branch

HUC14 ID: 02030105060010

Site Area: 178,483 sq. ft.

Address: 8 West Main Street
Mendham Borough, NJ 07945

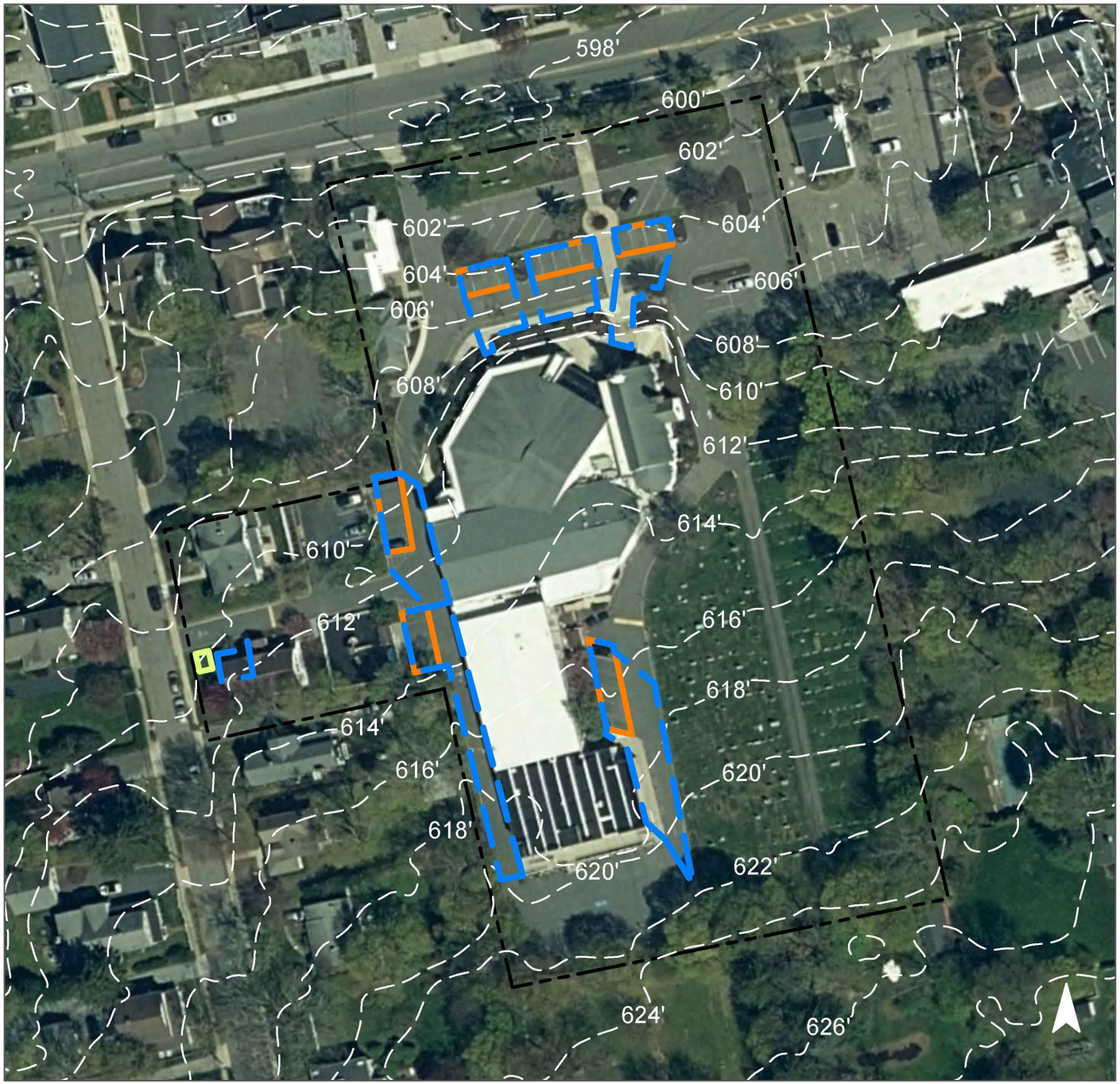
Block and Lot: Block 1902, Lots 3, 4 & 27

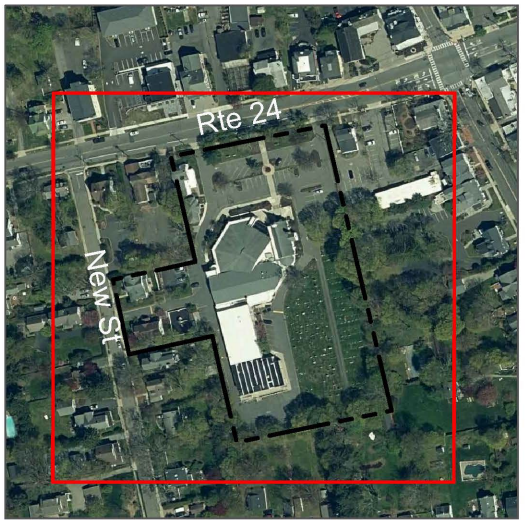
A rain garden can be installed near the western parish house to capture, treat, and infiltrate the stormwater runoff from the rooftop. This will require downspout redirection. Existing parking spaces to the north, west, and east of the building can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
65	188,732	5.6	59.0	536.7	0.091	3.64

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	415	0.012	2	870	0.03	105	$1,050
Pervious pavement	14,775	0.437	65	30,820	1.16	4,395	$109,875

GREEN INFRASTRUCTURE RECOMMENDATIONS





St. Joseph's School

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 50' 100'

11. ST. MARK'S EPISCOPAL CHURCH

Subwatershed: Raritan River North Branch

Site Area: 32,559 sq. ft.

Address: 9 East Main Street
Mendham, NJ 07945

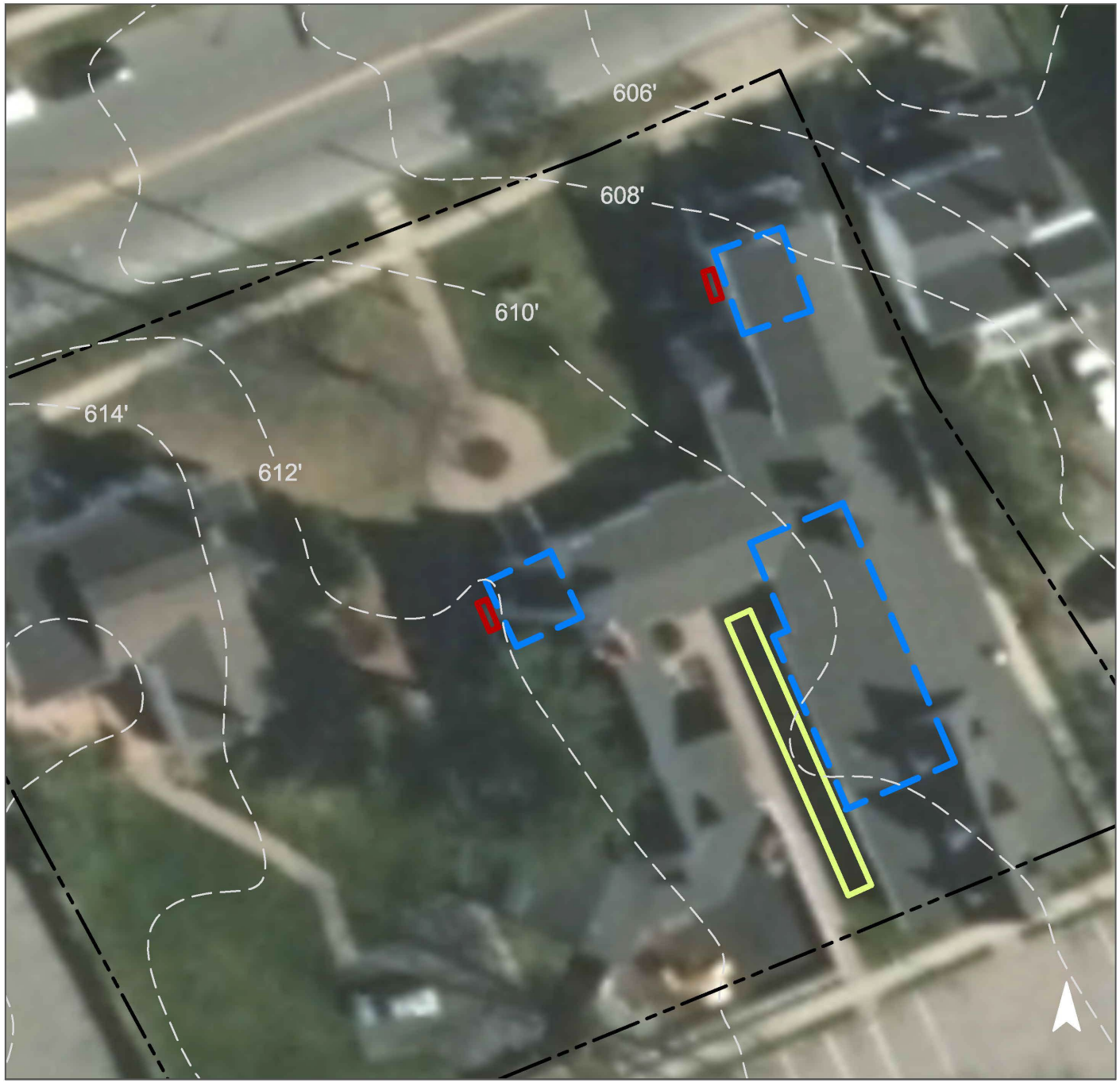
Block and Lot: Block 1501, Lot 4

A rain garden can be installed near the rear entrance of the building to capture, treat, and infiltrate the water from five nearby connected downspouts. Two downspout planter boxes can be installed to capture rooftop runoff from different sections of the building. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
75	24,471	1.2	12.4	112.4	0.019	0.67

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.031	5	2,300	0.09	300	$1,500
Planter boxes	n/a	1	n/a	n/a	2	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



St. Mark's Episcopal Church

- bioretention system
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 15' 30'

12. CHESTER BOROUGH OFFICE

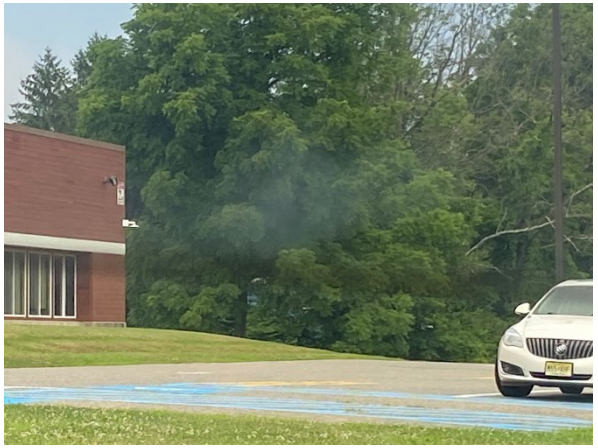
Subwatershed: **Burnett Brook**

HUC14 ID: **02030105060020**

Site Area: **2,589,180 sq. ft.**

Address: **50 North Road**
Chester, NJ 07930

Block and Lot: **Block 115, Lot 17**



Rain gardens can be installed in multiple grass areas around the property to capture, treat, and infiltrate the stormwater runoff from the driveway and parking lot. Trench drains will be required for some of these gardens. Existing parking spaces in the northern and southern parking lots can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
9	234,240	11.3	118.3	1,075.5	0.183	7.30

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	3,660	0.108	15	7,640	0.29	915	$9,150
Pervious pavement	19,110	0.566	84	39,860	1.50	6,990	$174,750

GREEN INFRASTRUCTURE RECOMMENDATIONS

Chester Borough Office

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 50' 100'

13. HEISTEIN PARK

Subwatershed: Burnett Brook

Site Area: 1,849,597 sq. ft.

Address: Heistein Park Road
Randolph, NJ 07869

Block and Lot: Block 51 | Lot 7,30

A bioretention system can be installed in the parking lot bump out to treat the parking lot drainage area. Pervious pavement can be installed in the east and west strips of the parking lot to manage additional runoff from the parking lot. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
9	174,724	8.4	88.2	802.2	0.136	4.79

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.078	13	6,110	0.23	750	$3,750
Pervious pavement	1.091	183	85,230	3.20	7,520	$188,000

GREEN INFRASTRUCTURE RECOMMENDATIONS

Heistein Park

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 75' 150'

14. HIGHLANDS RIDGE PARK

Subwatershed: **Burnett Brook**

HUC14 ID **02030105060020**

Site Area: **4,445,427 sq. ft.**

Address: **County Road 510**
Chester, NJ 07930

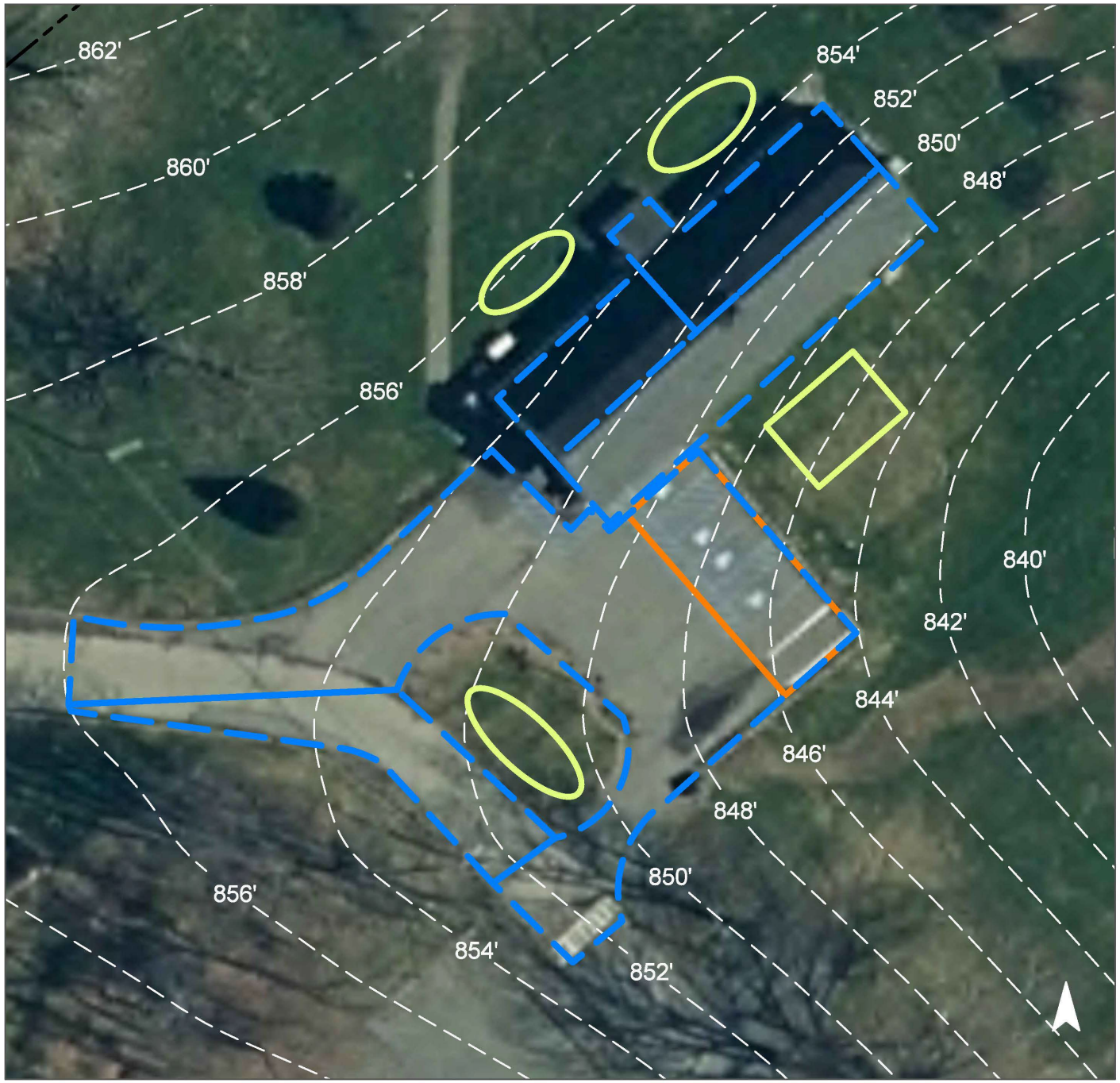
Block and Lot: **Block 26, Lot 78.01**

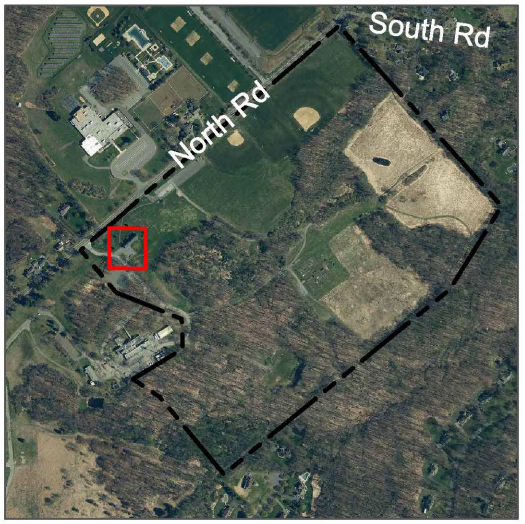
1.Rain gardens can be installed in multiple grass areas to capture, treat, and infiltrate the stormwater runoff from the building rooftop and from the asphalt driveway. This will require downspout disconnections. The existing parking spaces to the southeast of the park building can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
4	188,825	9.1	95.4	867.0	0.147	5.89

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	6,930	0.205	30	14,450	0.54	1,735	$17,350
Pervious pavement	8,515	0.252	38	17,760	0.67	1,565	$39,125

GREEN INFRASTRUCTURE RECOMMENDATIONS





Highlands Ridge Park

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 20' 40'

15. IRONIA ELEMENTARY SCHOOL

Subwatershed: **Burnett Brook**

Site Area: **653,414 sq. ft.**

Address: **303 Dover Chester Road**
Randolph, NJ 07869

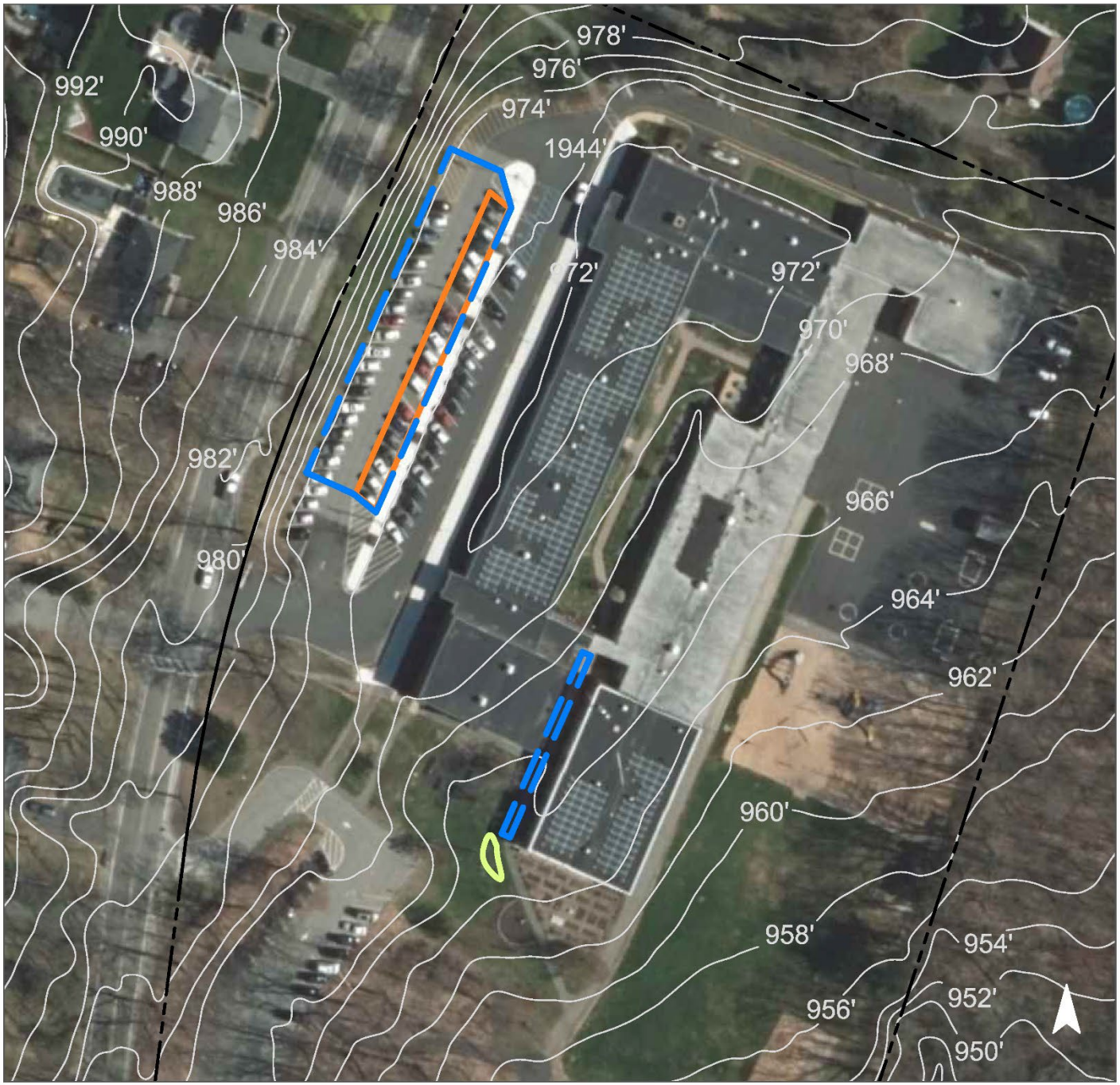
Block and Lot: **Block 48 | Lot 5**

A bioretention system can be created at the south end the building to capture, treat, and infiltrate the building's stormwater runoff. Pervious pavement can be installed in a strip of parking spaces to treat runoff from the parking lot. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
38	247,317	11.9	124.9	1,135.5	0.193	6.78

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.020	3	1,590	0.06	200	$1,000
Pervious pavement	0.312	52	24,350	0.92	3,925	$98,125

GREEN INFRASTRUCTURE RECOMMENDATIONS



Ironia Elementary School

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

16. NEW JERSEY HIGHLANDS COUNCIL

Subwatershed: Burnett Brook

Site Area: 434,470 sq. ft.

Address: 100 North Road
Chester, NJ 07930

Block and Lot: Block 26, Lot 78.02

A rain garden can be installed south of the storage building to capture stormwater runoff from the parking lot and roadway. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
27	117,715	5.7	59.5	540.5	0.092	3.23

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.189	32	13,860	0.52	1,815	$9,075

GREEN INFRASTRUCTURE RECOMMENDATIONS

New Jersey Highlands Council

- bioretention system
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

17. RANDOLPH TOWNSHIP FIRE DEPARTMENT COMPANY #4

Subwatershed: Burnett Brook

Site Area: 100,313 sq. ft.

Address: 331 Dover Chester Road
Randolph, NJ 07869

Block and Lot: Block 49 | Lot 2.02

A bioretention system can be installed in the east and south turfgrass areas to capture, treat, and infiltrate the runoff from the parking area. Additionally, a cistern can be installed on the northeast corner of the building to capture the rooftop drainage area that can be reused to wash the fire trucks and water the existing landscaping. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
67	67,102	3.2	33.9	308.1	0.052	1.84

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.231	39	18,060	0.68	2,220	$55,500
Rainwater harvesting	0.066	11	2,000	0.07	2,000 (gal)	$4,000

GREEN INFRASTRUCTURE RECOMMENDATIONS

Randolph Township Fire Department Company #4

- bioretention system
- rainwater harvesting
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 30' 60'

18. COMMUNITY OF ST. JOHN BAPTIST

RAP ID: 1

Subwatershed: Raritan River North Branch

HUC14 ID: 02030105060030

Site Area: 901,688 sq. ft.

Address: 82 West Main Street
Mendham Township, NJ 07945

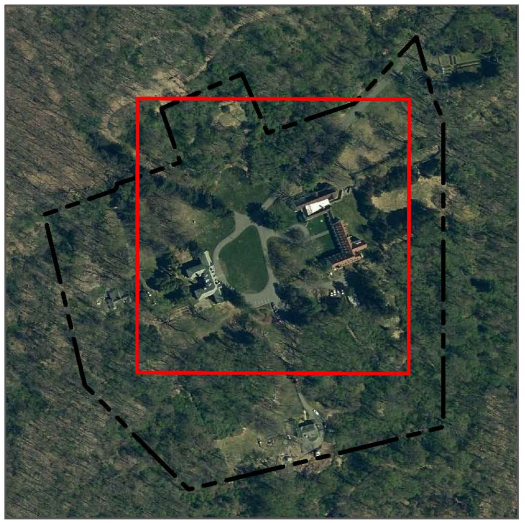
Block and Lot: Block 104, Lot 22

Rain gardens can be installed in multiple grass areas around the property to capture, treat, and infiltrate stormwater runoff from the building rooftops and pavement. For some of the gardens, this may require downspout redirections and downspout disconnections. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
10	90,971	4.4	45.9	417.7	0.071	2.84

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	8,535	0.253	38	17,800	0.67	2,130	$21,300

GREEN INFRASTRUCTURE RECOMMENDATIONS



Community of St. John Baptist

- bioretention system
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 50' 100'

19. DAYTOP PREPARATORY SCHOOL

Subwatershed: Raritan River North Branch

Site Area: 1,167,548 sq. ft.

Address: 80 West Main Street
Mendham, NJ 07945

Block and Lot: Block 1801, Lot 5

A rain garden can be installed to capture, treat, and filter runoff from the rooftop of the easternmost building on the property. Pervious pavement can be installed in the parking spaces to infiltrate the water from the driveway, and downspout planter boxes can be installed along the front of the school. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
17	193,923	9.3	97.9	890.4	0.151	5.32

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.036	6	2,680	0.10	350	$1,750
Pervious pavement	0.236	40	17,340	0.65	1,620	$40,500
Planter boxes	n/a	6	n/a	n/a	8 (boxes)	$8,000

GREEN INFRASTRUCTURE RECOMMENDATIONS

Daytop Preparatory School

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

20. HILLTOP PRESBYTERIAN CHURCH

RAP ID: 3

Subwatershed: Raritan River North Branch

Site Area: 100,931 sq. ft.

Address: 20 Hilltop Road
Mendham, NJ 07945

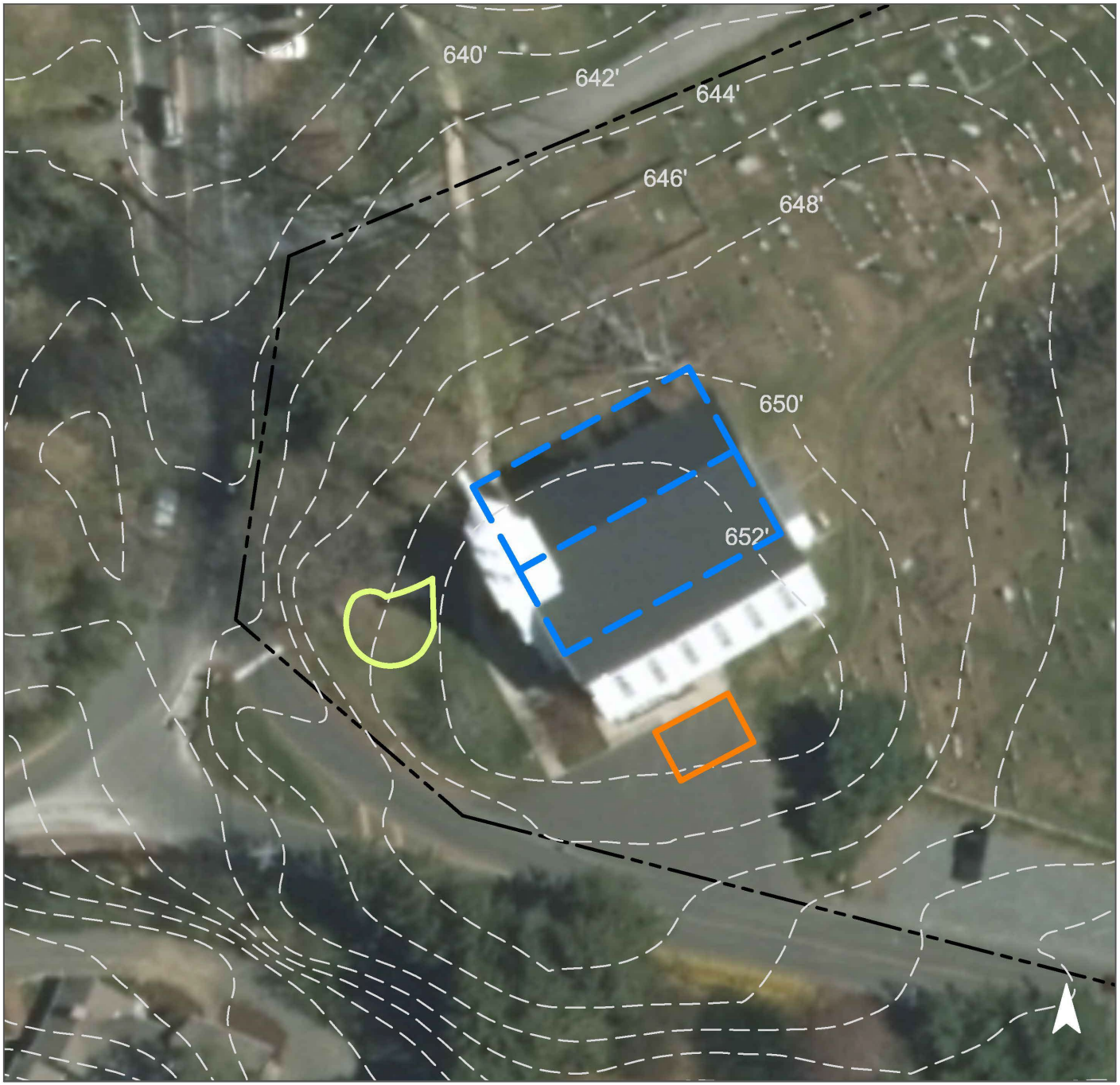
Block and Lot: Block 1501, Lot 31

A small section of pervious pavement in parking spaces near the entrance can capture rooftop runoff and help prevent pooling in the adjacent street. Additionally, a rain garden can be installed in front of the building to capture, treat, and infiltrate runoff from the roof. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
33	32,966	1.6	16.6	151.4	0.026	0.90

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.065	11	4,780	0.18	650	$3,250
Pervious pavement	0.065	11	4,780	0.18	445	$11,125

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hilltop Presbyterian Church

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

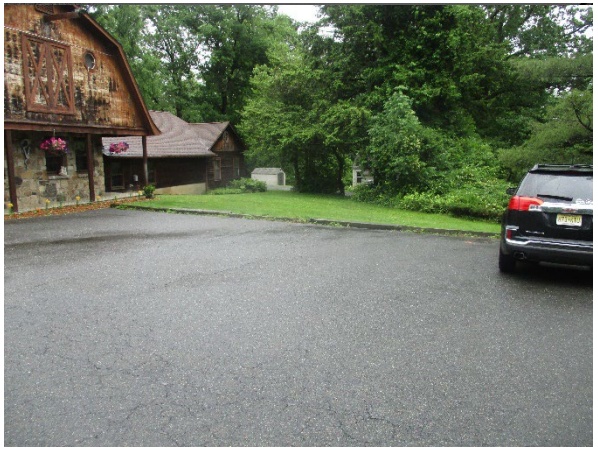
21. MENDHAM ANIMAL HOSPITAL

Subwatershed: Raritan River North Branch

Site Area: 126,630 sq. ft.

Address: 571 Route 24
Mendham, NJ 07945

Block and Lot: Block 27, Lot 3



A rain garden can be installed south of the building to capture stormwater runoff from both the rooftop of the building as well as the parking lot. Downspout planter boxes can be installed in front of the building to capture the stormwater runoff from the western rooftop. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
14	17,580	0.8	8.9	80.7	0.014	0.48

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.029	5	2,090	0.08	275	$1,375
Planter boxes	N/A	2	N/A	N/A	2 (boxes)	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS

Mendham Animal Hospital

- bioretention system
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 15' 30'

22. MENDHAM BOROUGH PUBLIC WORKS GARAGE

Subwatershed: Raritan River North Branch

Site Area: 658,388 sq. ft.

Address: 37 Ironia Road
Mendham, NJ 07945

Block and Lot: Block 201, Lot 6

Two cisterns can be installed adjacent to the building to treat the building's drainage area. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
14	89,604	4.3	45.3	411.4	0.070	2.46

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Rainwater harvesting	0.067	11	2,000	0.07	2,000 (gal)	$4,000

GREEN INFRASTRUCTURE RECOMMENDATIONS

Mendham Borough
Public Works Garage

- rainwater harvesting
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

23. MENDHAM HILLS COMMUNITY CHURCH

Subwatershed: Raritan River North Branch

Site Area: 269,785 sq. ft.

Address: 480 Route 24
Chester, NJ 07930

Block and Lot: Block 9, Lot 20.01

A rain garden can be installed southwest of the building to capture, treat, and infiltrate the stormwater coming from the top of the building. Pervious pavement can be installed in the southeastern corner of the parking lot to capture stormwater runoff from the parking lot. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
24	64,060	3.1	32.4	294.1	0.050	1.76

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.023	4	1,680	0.06	220	$1,100
Pervious pavement	0.142	24	10,420	0.39	1,620	$40,500

GREEN INFRASTRUCTURE RECOMMENDATIONS

Mendham Hills Community Church

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

24. RALSTON ENGINE COMPANY NO. 1

Subwatershed: Raritan River North Branch

Site Area: 1,050,733 sq. ft.

Address: 322 Mendham Road West
Mendham, NJ 07945

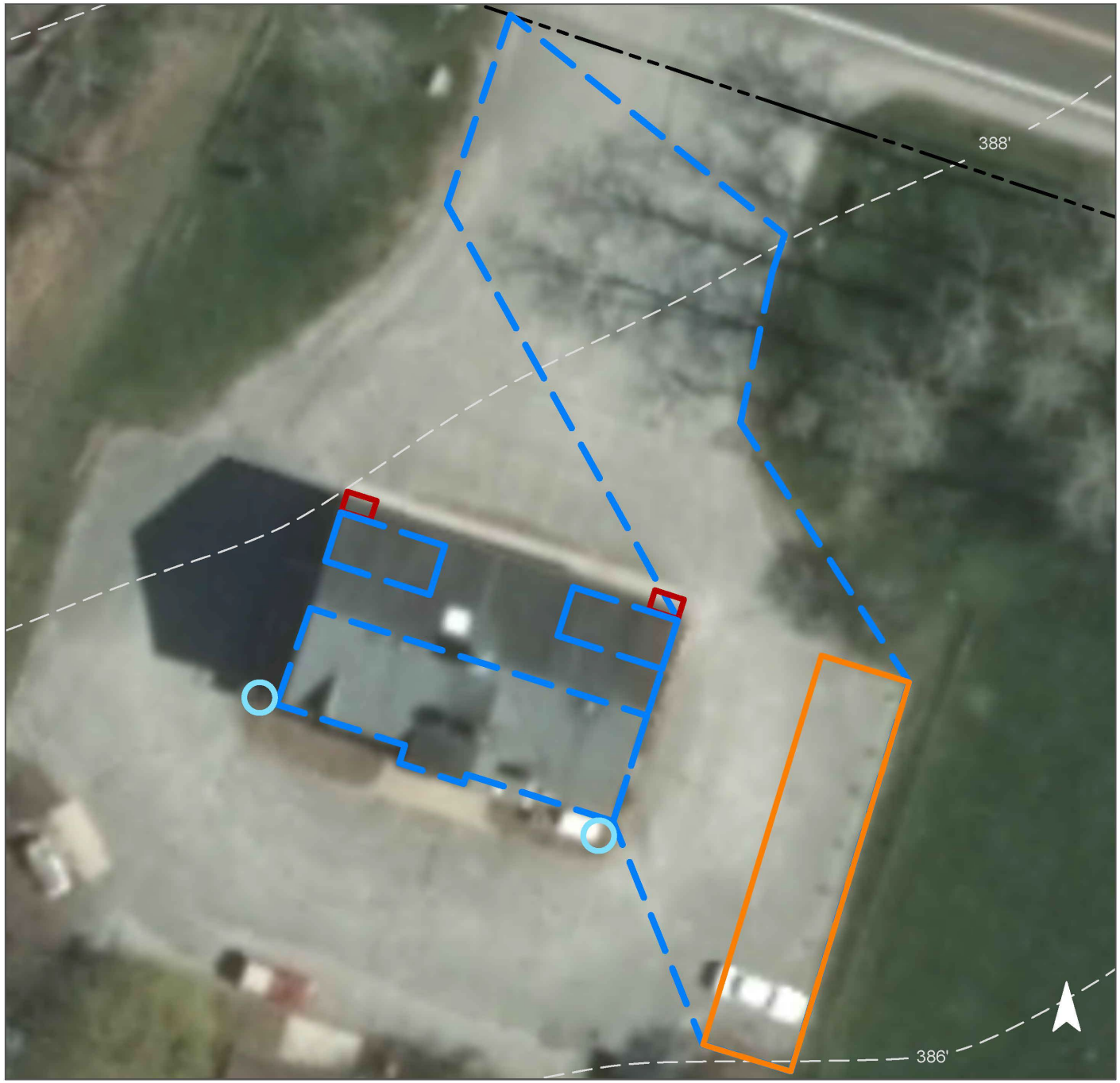
Block and Lot: Block 107, Lot 33

A cistern can be installed along the building to allow stormwater runoff from the roof to be reused for activities such as washing fire engines. To capture runoff from the parking lot, a section of parking spaces can be converted to porous pavement. Downspout planter boxes can be placed on the front of the building to help capture stormwater runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
6	61,226	3.0	30.9	281.1	0.048	1.68

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.210	35	15,420	0.58	1,440	$36,000
Planter boxes	n/a	2	n/a	n/a	2 (boxes)	$2,000
Rainwater harvesting	0.039	7	1,170	0.04	1,170 (gal)	$2,340

GREEN INFRASTRUCTURE RECOMMENDATIONS



Ralston Engine Company No. 1

- pervious pavement
- planter box
- rainwater harvesting
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 15' 30'

25. RALSTON FIELD

Subwatershed: Raritan River North Branch

Site Area: 35,929 sq. ft.

Address: 326 Mendham Road West
Mendham, NJ 07945

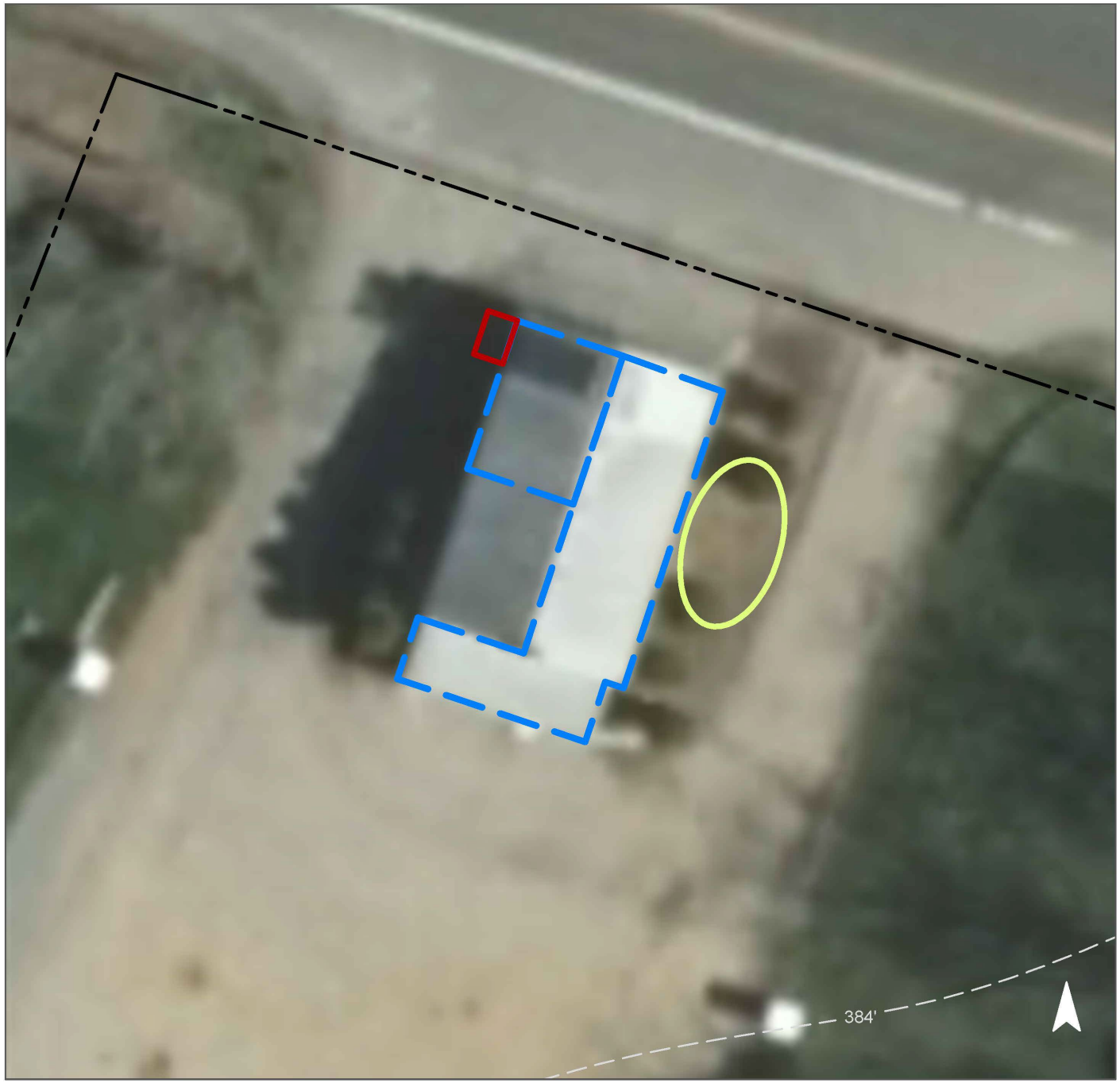
Block and Lot: Block 107, Lot 23

A rain garden can be installed on the east side of the building to capture, treat, and infiltrate rooftop runoff. Along the western side of the building a downspout planter box can be installed to help capture stormwater runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
19	6,884	0.3	3.5	31.6	0.005	0.19

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.021	3	1,510	0.06	200	$1,000
Planter box	n/a	1	n/a	n/a	1 (box)	$1,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Ralston Field

- bioretention system
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 10' 20'

26. RANDOLPH REGIONAL ANIMAL SHELTER

Subwatershed: Raritan River North Branch

Site Area: 3,813,302 sq. ft.

Address: 97 Iroina Road
Mendham, NJ 07945

Block and Lot: Block 116, Lot 6

A rain garden can be installed adjacent to the main building to capture, treat, and infiltrate rooftop runoff. The gated pavement area can be replaced with pervious pavement to capture and infiltrate stormwater from the nearby buildings and the lot. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
5	208,114	10.0	105.1	955.5	0.162	5.71

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.022	4	1,620	0.06	215	$1,075
Pervious pavement	0.422	71	30,940	1.16	2,890	$72,250

GREEN INFRASTRUCTURE RECOMMENDATIONS

Randolph Regional Animal Shelter

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 30' 60'

27. WESTMONT MONTESSORI SCHOOL

Subwatershed: Raritan River North Branch

Site Area: 133,335 sq. ft.

Address: 577 Route 24
Mendham, NJ 07945

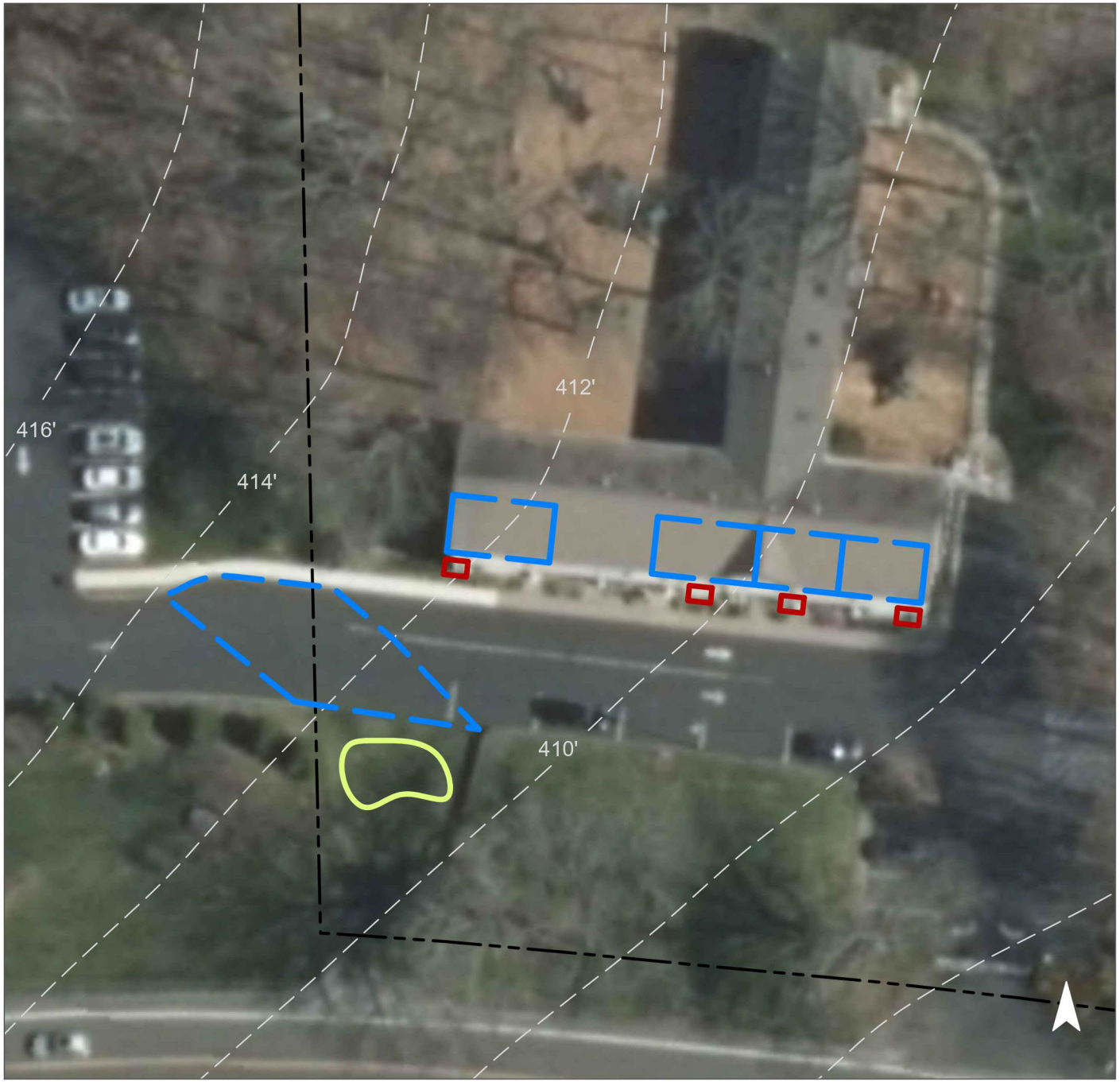
Block and Lot: Block 27, Lot 4

A rain garden can be installed south of the roadway to capture, treat, and infiltrate stormwater runoff from the pavement. Downspout planter boxes can be installed along the front, southern wall of the building to capture stormwater runoff from the rooftop. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
16	21,600	1.0	10.9	99.2	0.017	0.59

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.040	7	2,960	0.11	390	$1,950
Planter boxes	N/A	3	N/A	N/A	4 (boxes)	$4,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Westmont Montessori School

- bioretention system
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

28. NATIRAR PARK

Subwatershed: Raritan River North Branch

Site Area: 10,567,360 sq. ft.

Address: 2 Main Street
Gladstone, NJ 07934

Block and Lot: Block 28, Lot 24.01

Several rain gardens can be installed in multiple locations around the parking lots and driveways to capture stormwater runoff from those areas. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
0.18	19,340	0.9	9.8	88.8	0.015	0.53

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.612	106	44,920	1.69	5,880	$29,400

GREEN INFRASTRUCTURE RECOMMENDATIONS

Natirar Park

- bioretention system
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

29. THE COOKING SCHOOL AT NATIRAR

Subwatershed: Raritan River North Branch

Site Area: 3,689,440 sq. ft.

Address: 2 Main Street
Peapack, NJ 07977

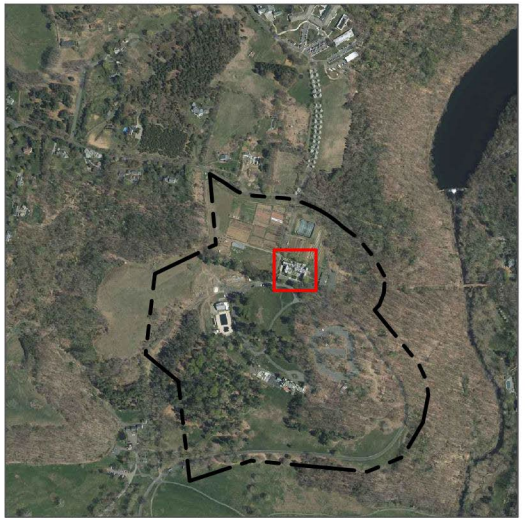
Block and Lot: Block 28, Lot 24.02

Rain gardens can be installed between the existing landscaped area and the sidewalk to capture, treat, and infiltrate stormwater runoff from the roof of the building. Downspout planter boxes can be installed on the eastern side of the building to capture and filter stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
8	288,540	13.9	145.7	1,324.8	0.225	7.91

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.062	10	4,550	0.17	595	$2,975
Planter boxes	n/a	1	n/a	n/a	2 (boxes)	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



The Cooking School at Natirar

- bioretention system
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

30. THE MATHENY SCHOOL

Subwatershed: Raritan River North Branch

Site Area: 3,972,380 sq. ft.

Address: 65 Highland Avenue
Peapack, NJ 07977

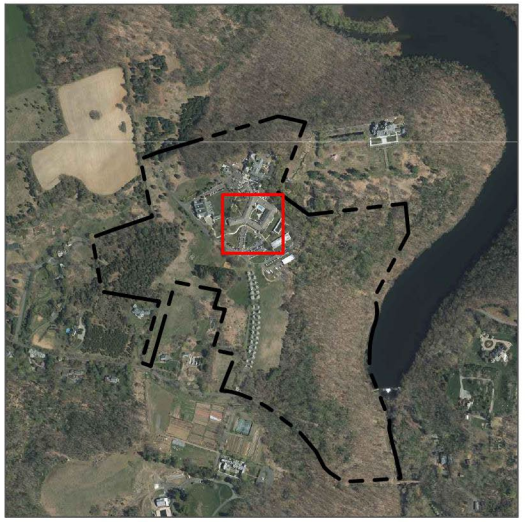
Block and Lot: Block 26, Lot 26

Rain gardens can be installed along the outer perimeter of the property, adjacent to the driveways and parking spaces, to capture, treat, and infiltrate stormwater runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
8.1	321,150	15.5	162.2	1,474.5	0.250	8.81

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.363	61	26,610	1.00	3,480	$17,400

GREEN INFRASTRUCTURE RECOMMENDATIONS



The Matheny School

- bioretention system
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 100' 200'

31. BORO OF CHESTER RECREATION OFFICE

Subwatershed: Peapack Brook

HUC14 ID: 02030105060050

Site Area: 84,985 sq. ft.

Address: 107 Seminary Avenue
Chester, NJ 07930

Block and Lot: Block 127, Lot 13

Rain gardens can be installed to the northwest of the parking lot and to the southeast of the building to capture, treat, and infiltrate the stormwater runoff from the parking lot and building rooftop. This will require curb cuts and downspout redirection beneath the sidewalk. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
19	16,463	0.8	8.3	75.6	0.013	0.51

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	8,915	0.264	38	18,600	0.70	2,230	$22,300

GREEN INFRASTRUCTURE RECOMMENDATIONS

Boro of Chester Recreation Office

- bioretention system
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 20' 40'

32. CHASE BANK

Subwatershed: Peapack Brook

Site Area: 34,760 sq. ft.

Address: 444 East Main Street
Chester, NJ 07930

Block and Lot: Block 116, Lot 1

A rain garden can be installed north of the building to capture, treat, and infiltrate stormwater runoff from the roof and parking lot. Parking spaces near the catch basin in the rear parking lot can be converted to porous pavement to capture and infiltrate stormwater runoff from the parking lot. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
65	22,590	1.1	11.4	103.7	0.018	0.62

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.031	5	2,180	0.08	295	$1,475
Pervious pavement	0.098	16	6,930	0.26	810	$20,250

GREEN INFRASTRUCTURE RECOMMENDATIONS

Chase Bank

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

33. CHESTER BOROUGH PARK

Subwatershed: Peapack Brook

Site Area: 198,640 sq. ft.

Address: 134 Main Street
Chester Borough, NJ 07930

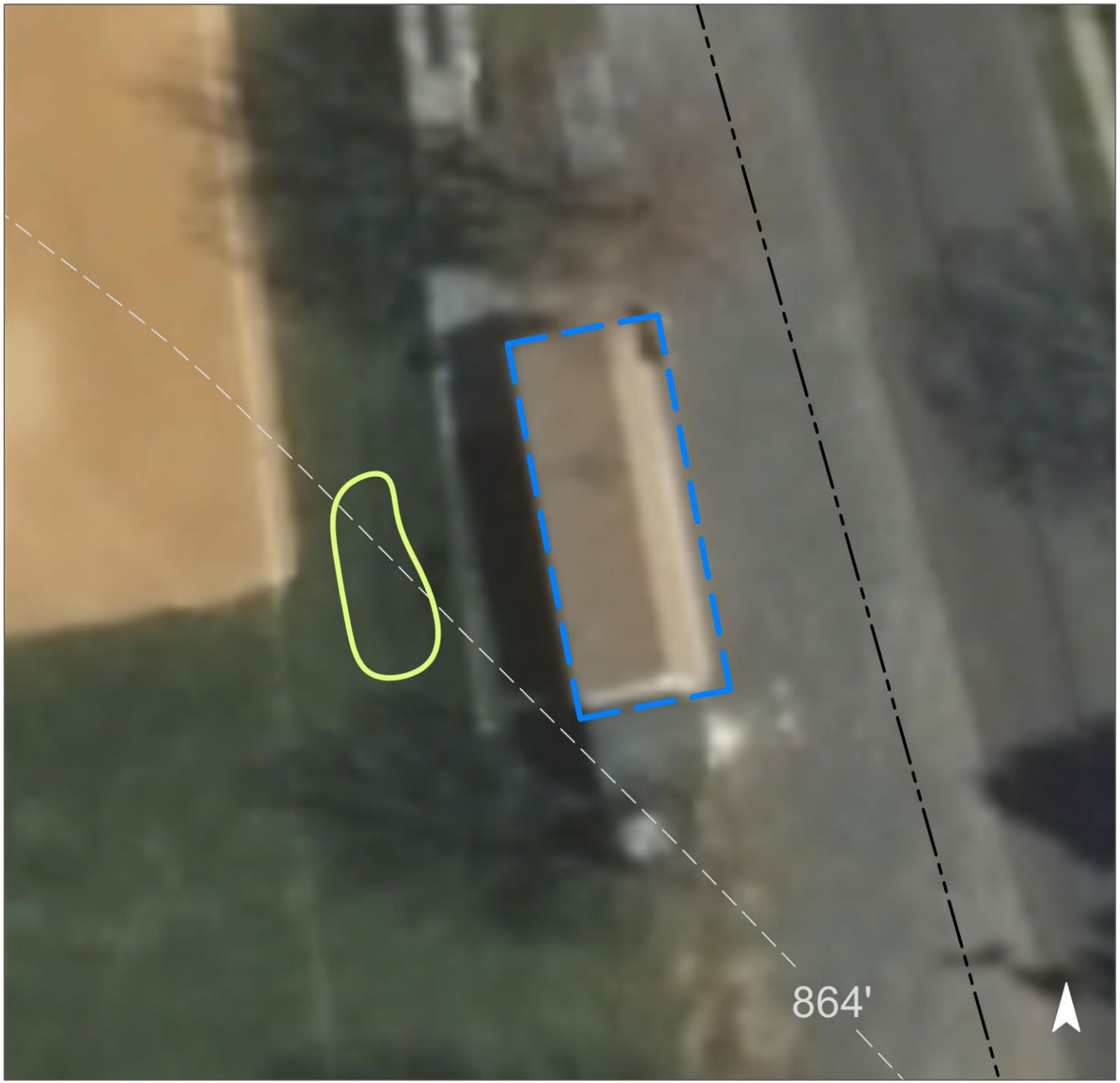
Block and Lot: Block 107, Lots 11, 12, & 13

A rain garden can be installed to the west of the building nearby the baseball field. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
10	19,760	1.0	10.0	90.7	0.015	0.54

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.026	4	1,850	0.07	250	$1,250

GREEN INFRASTRUCTURE RECOMMENDATIONS



Chester Borough Park

- bioretention system
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 10' 20'

34. CHESTER DINER

Subwatershed: Peapack Brook

Site Area: 63,920 sq. ft.

Address: 65 US-206
Chester Borough, NJ 07930

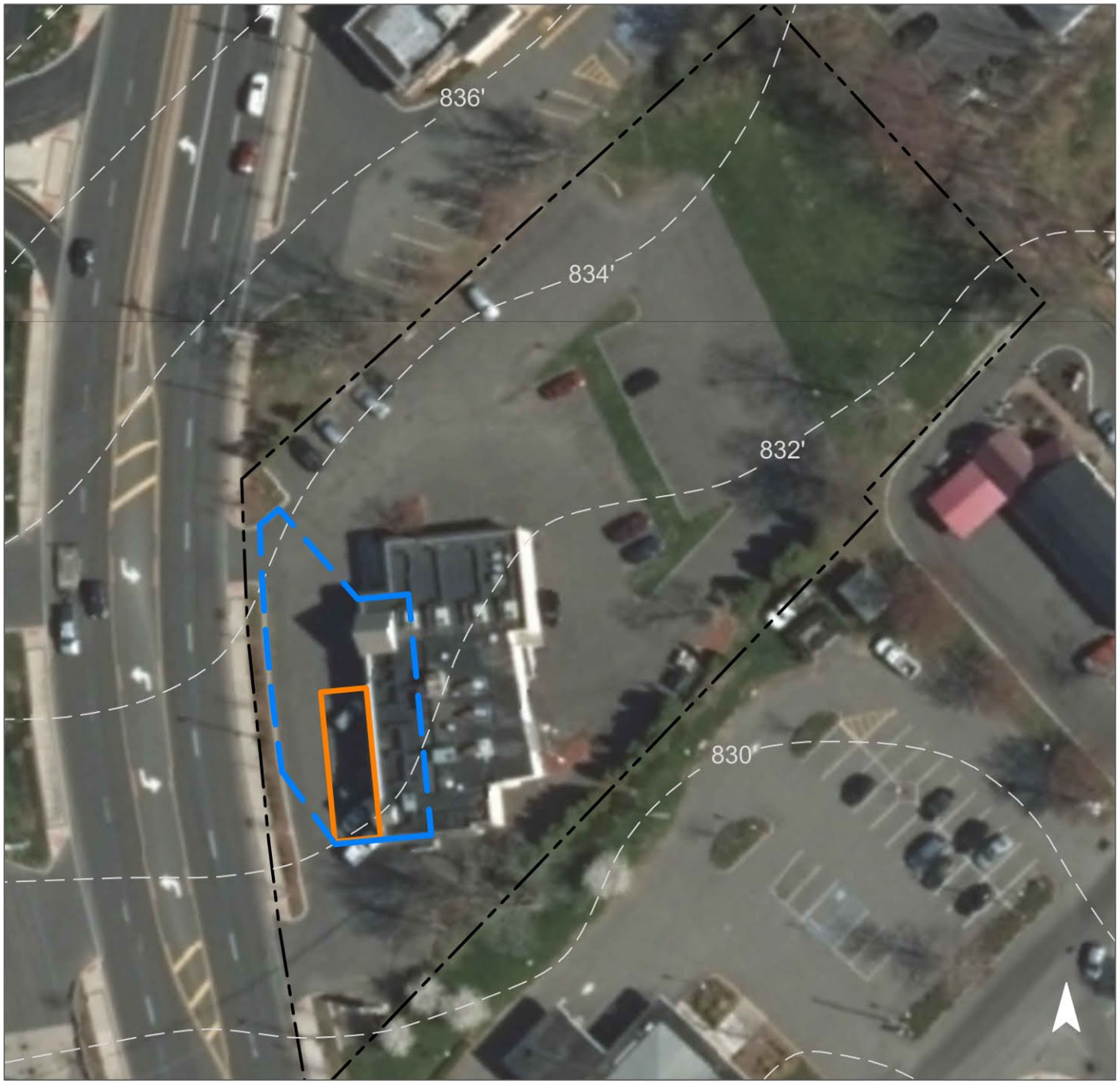
Block and Lot: Block 131, Lot 17

Porous pavement can be installed on the west side of the building to capture and infiltrate stormwater runoff from the building and surrounding area. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
75	48,190	2.3	24.3	221.3	0.038	1.32

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.155	26	11,000	0.41	1,080	$27,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Chester Diner

- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 30' 60'

35. CHESTER FIRE COMPANY

Subwatershed: **Peapack Brook**

HUC14 ID: **02030105060050**

Site Area: **45,869 sq. ft.**

Address: **86 Main Street**
Chester, NJ 07930

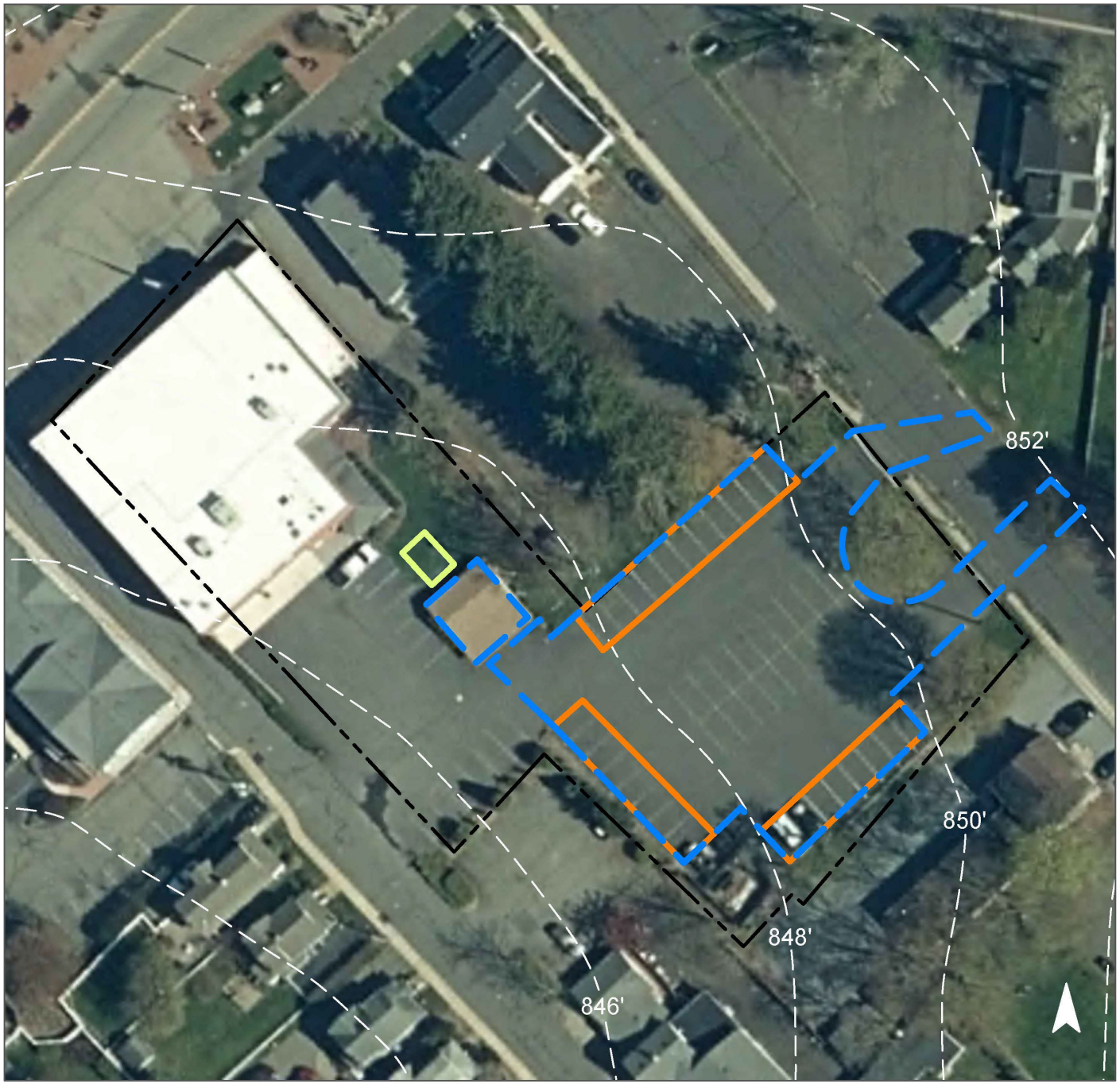
Block and Lot: **Block 126, Lots 2,3,4,7 & 8**

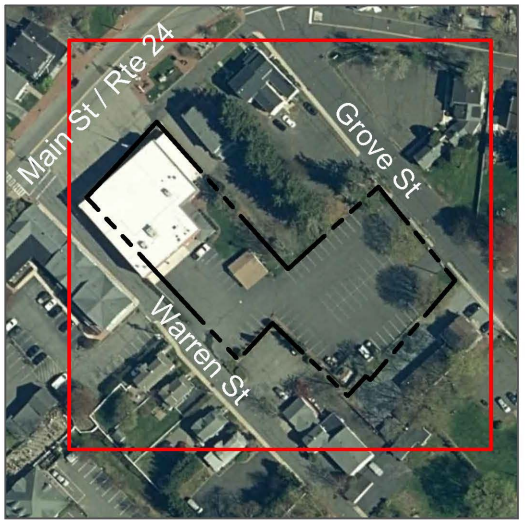
A rain garden can be installed to the west of the shed to capture, treat, and infiltrate the stormwater runoff from the rooftop. This will require a downspout disconnection. The gutters on the eastern section of the shed can also be reworked and directed towards the raingarden to increase the treated drainage area. Existing parking spaces in the eastern parking lot can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
87	39,938	1.9	20.2	183.4	0.031	1.24

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	810	0.024	4	1,690	0.06	205	$2,050
Pervious pavement	18,255	0.541	80	38,070	1.43	4,155	$103,875

GREEN INFRASTRUCTURE RECOMMENDATIONS





Chester Fire Company

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 30' 60'

36. CHESTER TENNIS CLUB

Subwatershed: Peapack Brook

Site Area: 91,750 sq. ft.

Address: 581 Main Street
Chester, NJ 07930

Block and Lot: Block 115, Lot 5

Parking spaces in the parking lot to the south of the building can be converted to porous pavement to capture and infiltrate stormwater runoff from the roof via the downspouts, which are disconnected. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
59	54,365	2.6	27.5	249.6	0.042	1.49

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.190	32	13,490	0.51	1,300	$32,500

GREEN INFRASTRUCTURE RECOMMENDATIONS

Chester Tennis Club

- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 30' 60'

37. COMMUNITY PRESBYTERIAN CHURCH

Subwatershed: Peapack Brook

HUC14 ID: 02030105060050

Site Area: 101,358 sq. ft.

Address: 220 Main Street
Chester, NJ 07930

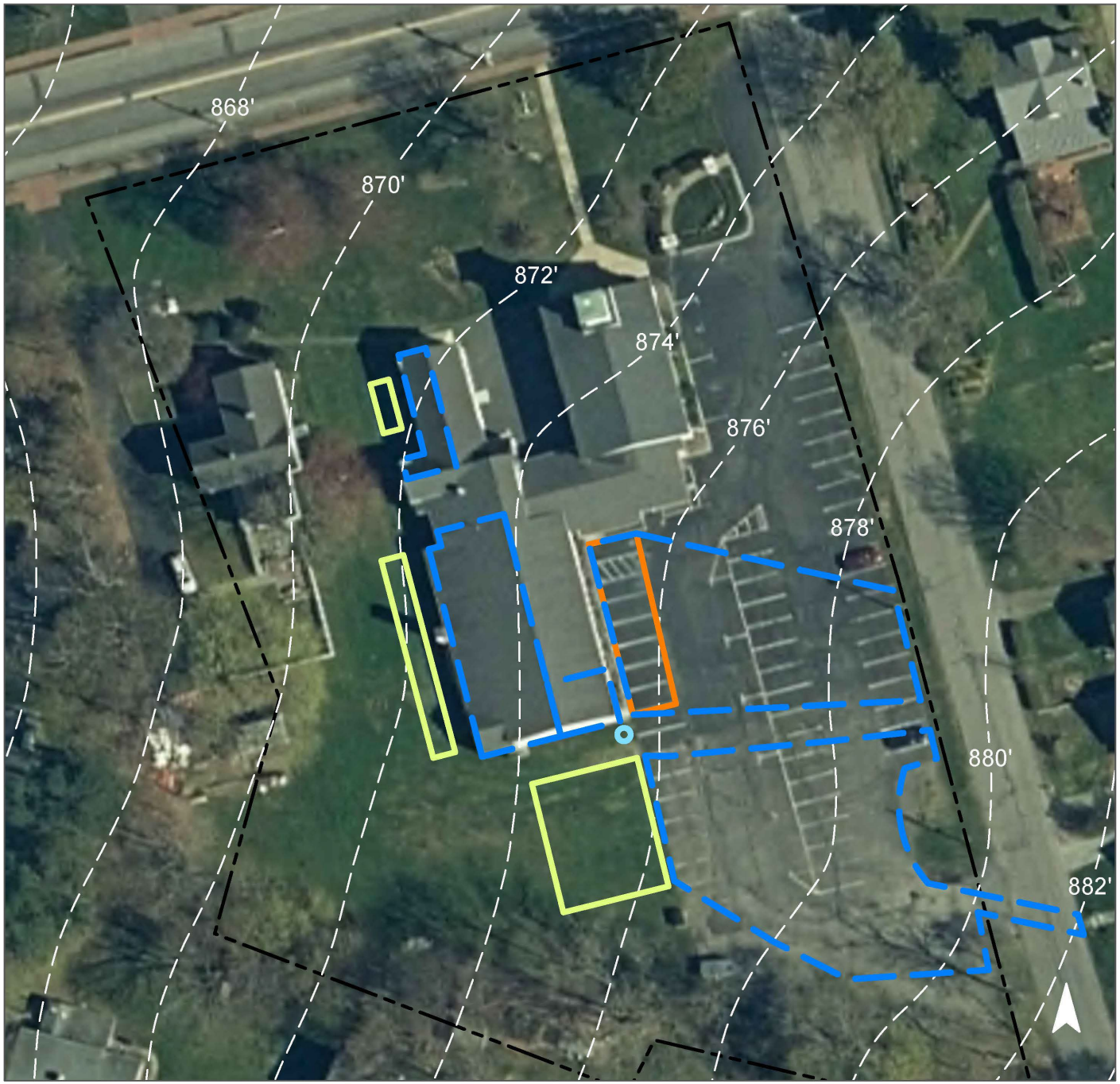
Block and Lot: Block 123, Lot 6

Rain gardens can be installed in multiple grass areas around the property to capture, treat, and infiltrate the stormwater runoff from the rooftops and parking lot. This will require downspout redirection and disconnections. Existing parking spaces in western section of the parking lot can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. A cistern can be installed to the southeast of the building to divert and detain the stormwater runoff from the rooftop for later non-potable reuse such as watering a garden bed. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
54	55,160	2.7	27.9	253.3	0.043	1.72

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	12,290	0.364	53	25,630	0.96	3,075	$30,750
Pervious pavement	6,735	0.199	29	14,050	0.53	1,255	$31,375
Rainwater harvesting	510	0.015	2	400	N/A	400 (gal)	$1,200

GREEN INFRASTRUCTURE RECOMMENDATIONS



Community Presbyterian Church

- bioretention system
- pervious pavement
- rainwater harvesting
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 30' 60'

38. FIRST CONGREGATIONAL CHURCH

Subwatershed: **Peapack Brook**

HUC14 ID: **02030105060050**

Site Area: **278,454 sq. ft.**

Address: **30 Hillside Road**
Chester, NJ 07930

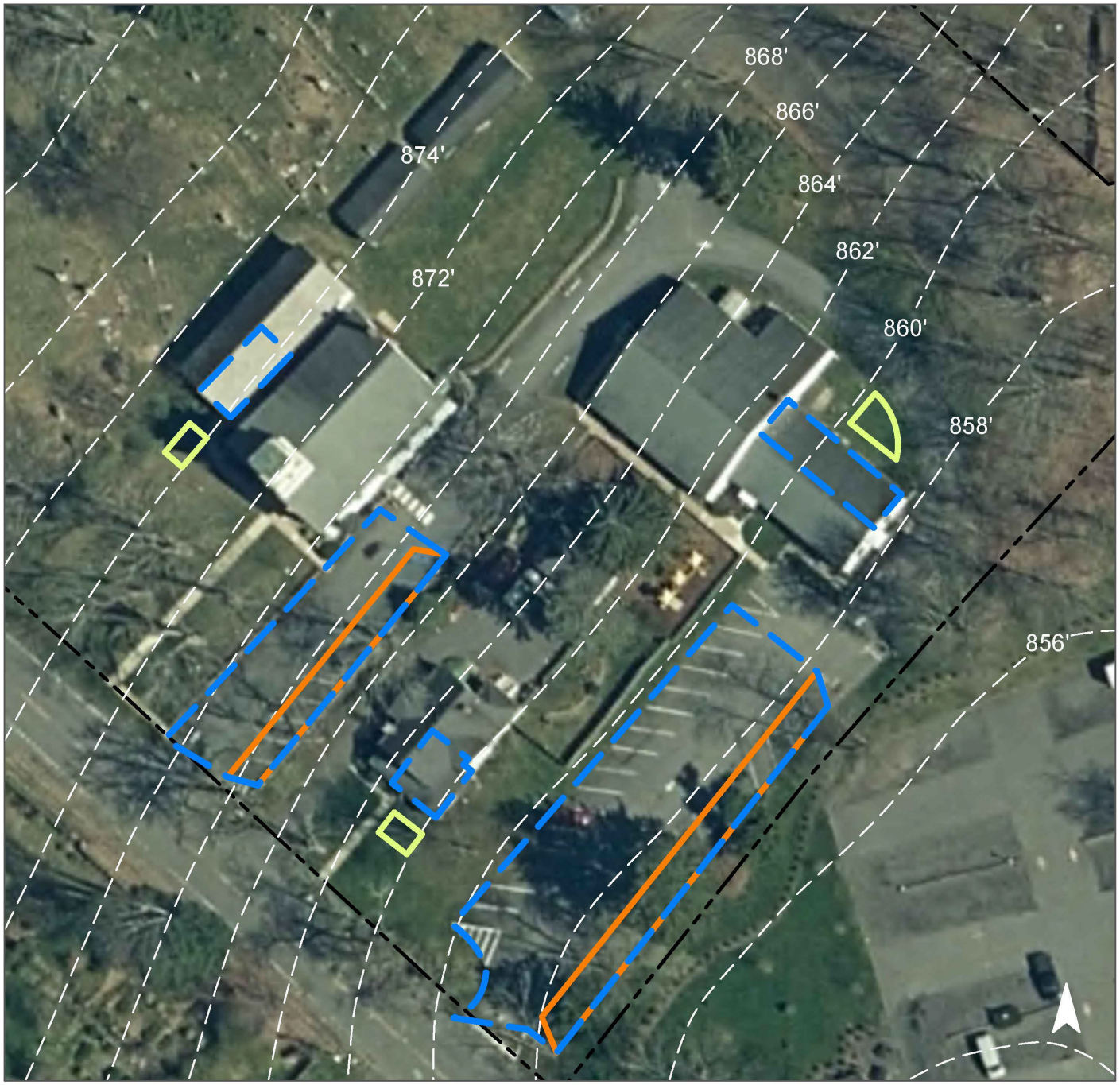
Block and Lot: **Block 107, Lots 18 & 19**

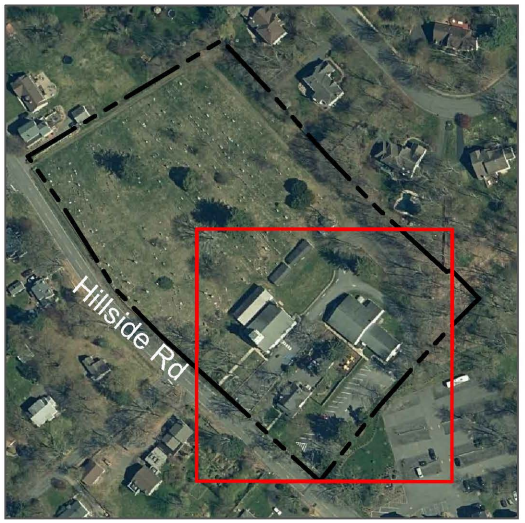
Rain gardens can be installed in multiple grass areas around the property to capture, treat, and infiltrate the stormwater runoff from the rooftops. This will require downspout disconnections, and in some cases downspout redirection underneath the sidewalk. Existing parking spaces in the eastern and western parking lots can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
20	55,020	2.7	27.8	252.6	0.043	1.71

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	2,090	0.062	10	4,360	0.16	520	$5,200
Pervious pavement	14,800	0.438	65	30,870	1.16	3,480	$87,000

GREEN INFRASTRUCTURE RECOMMENDATIONS





First Congregational Church

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 30' 60'

39. UNITED STATES POSTAL SERVICE

Subwatershed: Peapack Brook

Site Area: 47,570 sq. ft.

Address: 1 Sentry Lane
Chester, NJ 07930

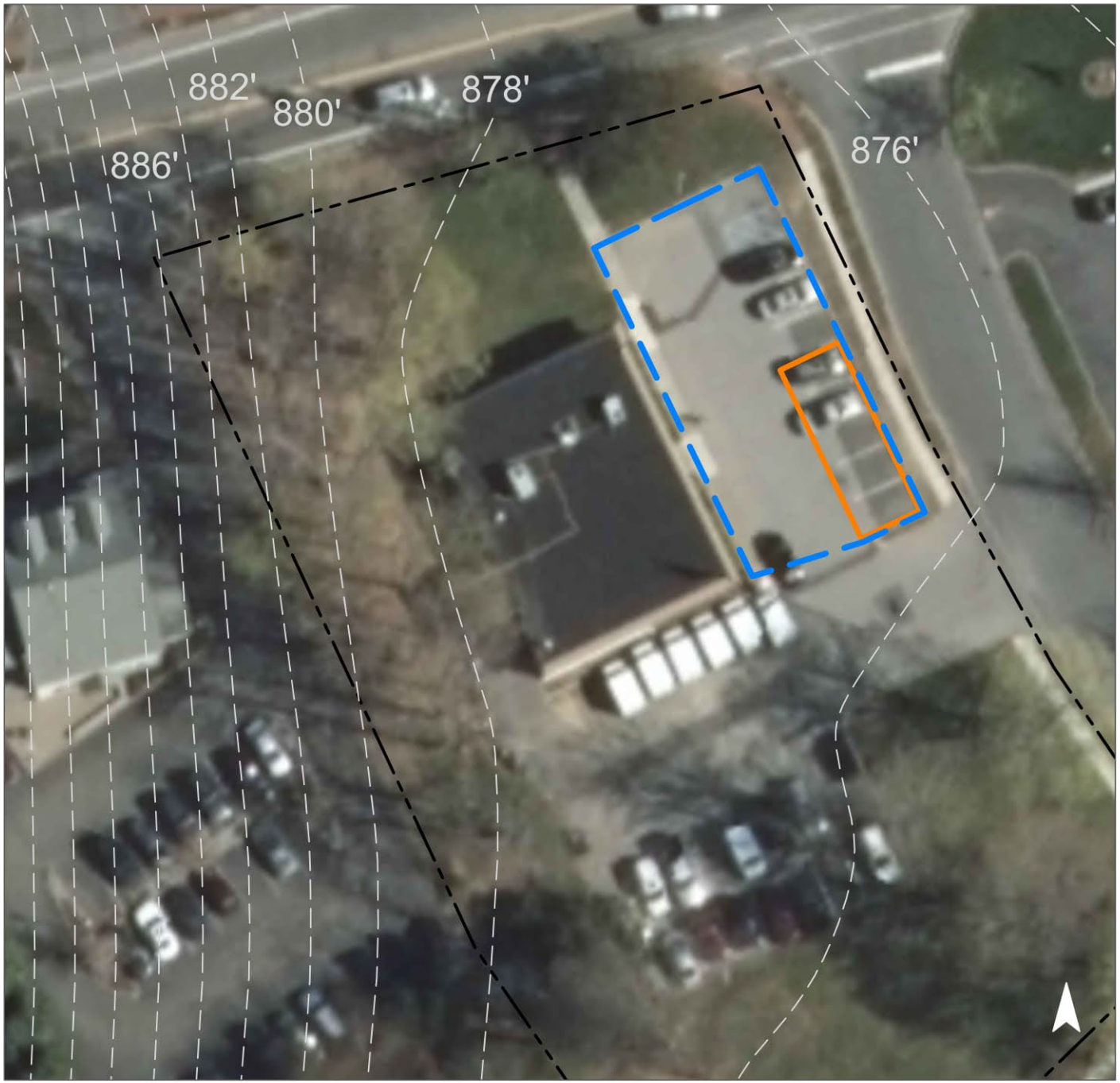
Block and Lot: Block 119, Lot 15

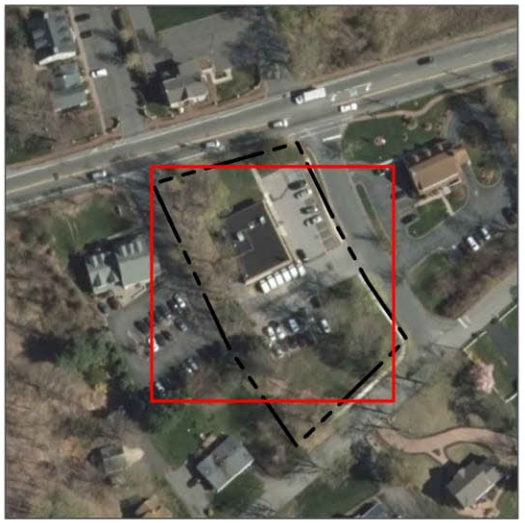
Parking spaces in the parking lot to the east of the building can be converted to porous pavement to capture and infiltrate stormwater runoff from the parking lot and the downspout. A septic system in the turfgrass area north of the building limits rain garden opportunities. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
62	29,480	1.4	14.9	135.4	0.023	0.81

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.123	21	8,750	0.33	900	$22,500

GREEN INFRASTRUCTURE RECOMMENDATIONS





United States Postal Service

- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

40. AMERICAN LEGION POST 342

Subwatershed: Peapack Brook

HUC14 ID 02030105060050

Site Area: 28,354 sq. ft.

Address: 333 County Highway 510
Chester, NJ 07930

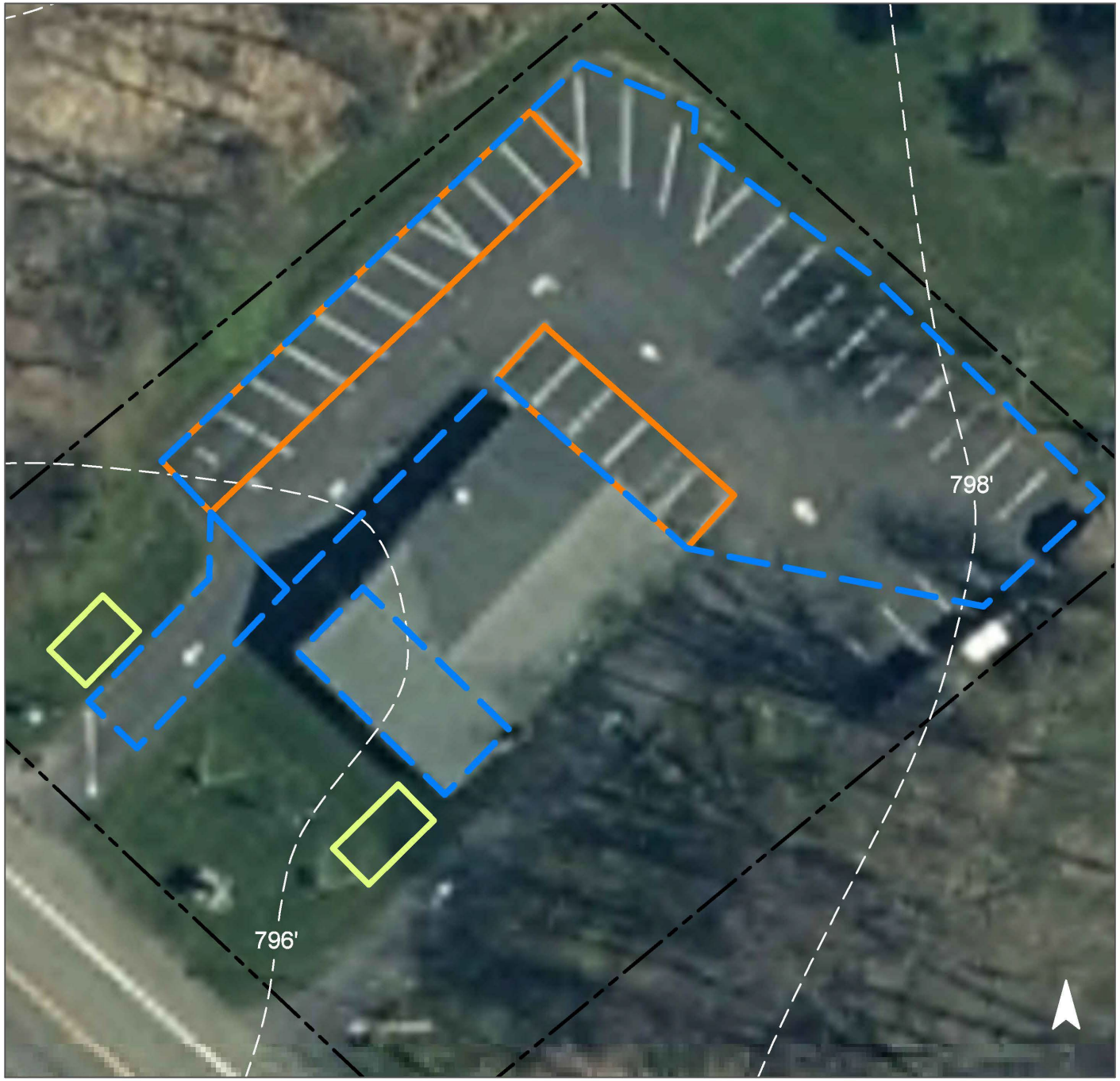
Block and Lot: Block 26.07, Lot 6

A rain garden can be installed to the south of the building to capture, treat, and infiltrate the stormwater runoff from the rooftop. This will require downspout disconnection. Another rain garden can be installed near the western driveway entrance to capture, treat, and infiltrate the stormwater runoff from the asphalt. This will require a trench drain. Existing parking spaces to the north and west of the building can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the parking lot. This may require a trench drain. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
70	19,897	1.0	10.0	91.4	0.016	0.62

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	1,315	0.039	6	2,750	0.10	330	$3,300
Pervious pavement	9,555	0.283	42	19,930	0.75	2,100	$52,500

GREEN INFRASTRUCTURE RECOMMENDATIONS



American Legion Post 342

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 15' 30'

41. BRAGG SCHOOL & DICKERSON SCHOOL

Subwatershed: Peapack Brook

HUC14 ID 02030105060050

Site Area: 1,195,284 sq. ft.

Address: 250 State Route 24
Chester, NJ 07930

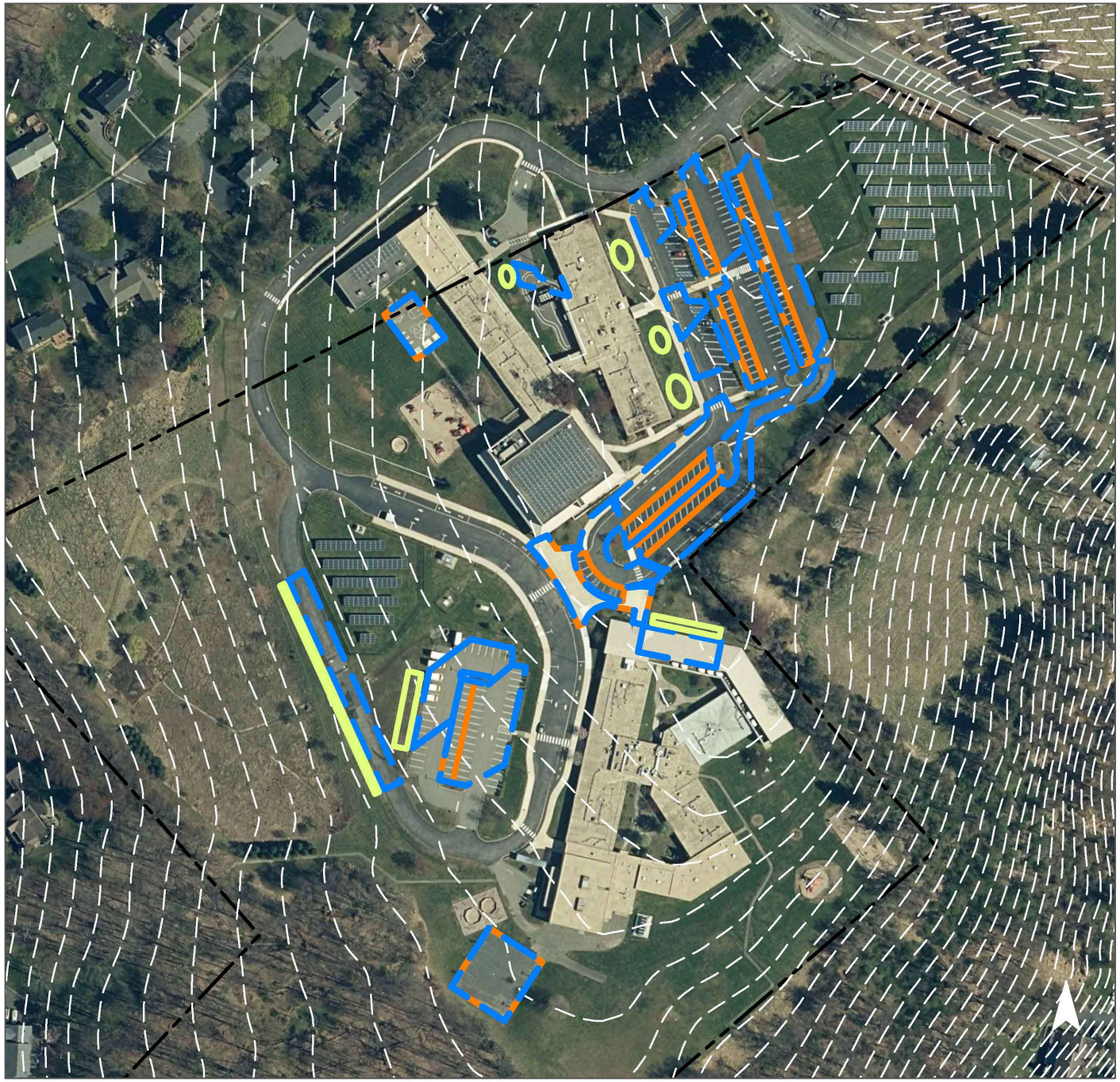
Block and Lot: Block 25.01, Lot 38.01

Rain gardens can be installed in multiple grass areas around the property to capture, treat, and infiltrate the stormwater runoff from the rooftops, parking lots, and driveways. This may require downspout disconnections, redirection of downspouts beneath sidewalks, trench drains, and curb cuts. Existing parking spaces in multiple lots can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. This may require trench drains in some locations. The basketball courts near each school building can also be converted into pervious pavement. The concrete walkway near the entrance of Bragg School can be replaced with permeable pavers. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 50"
31	366,012	17.6	184.9	1,680.5	0.285	11.41

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	27,040	0.801	118	56,400	2.12	6,760	$67,600
Pervious pavement	87,420	2.588	382	182,340	6.85	34,685	$867,125

GREEN INFRASTRUCTURE RECOMMENDATIONS

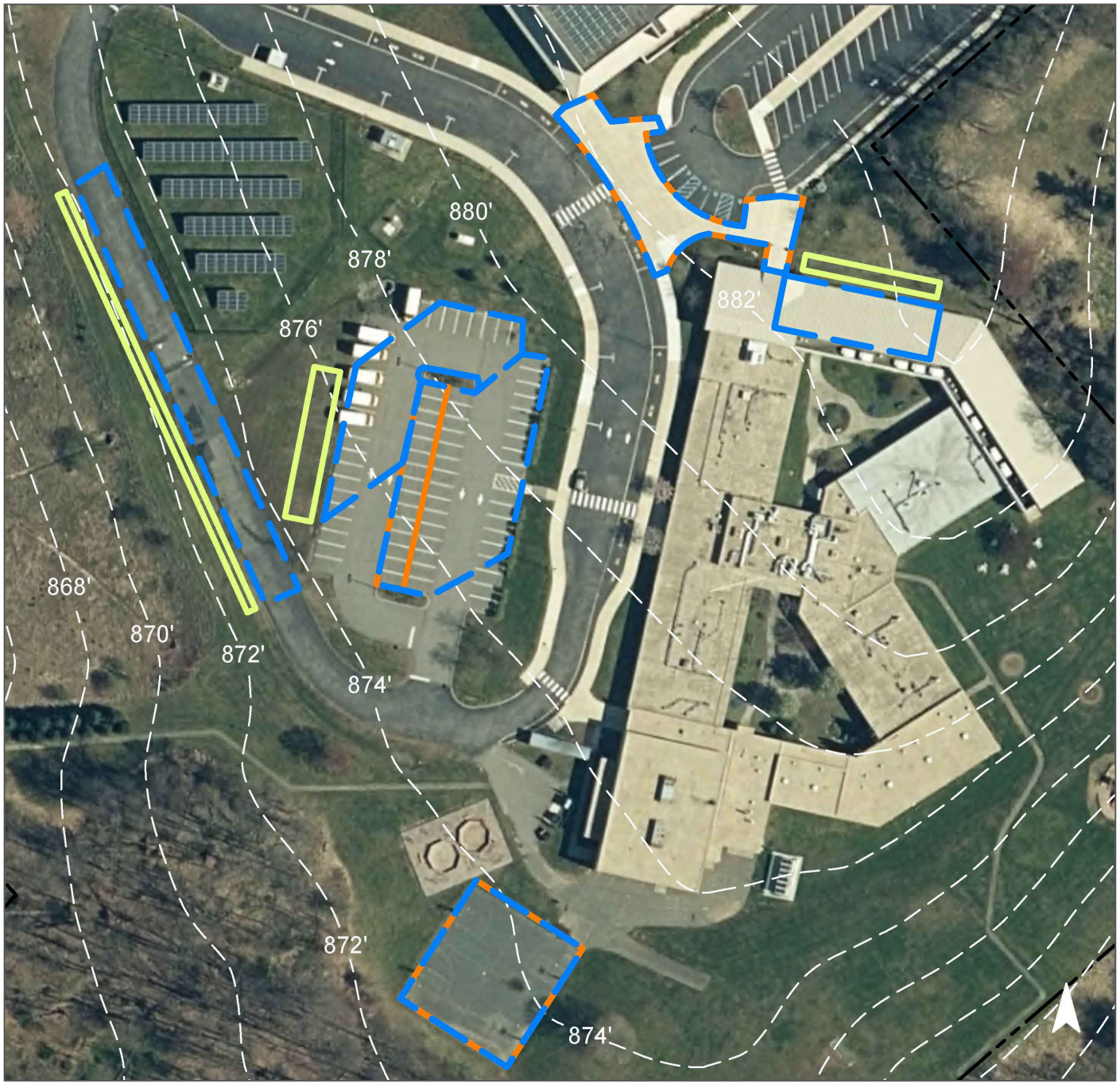


Bragg & Dickerson Schools
Overall View

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 100' 200'

GREEN INFRASTRUCTURE RECOMMENDATIONS

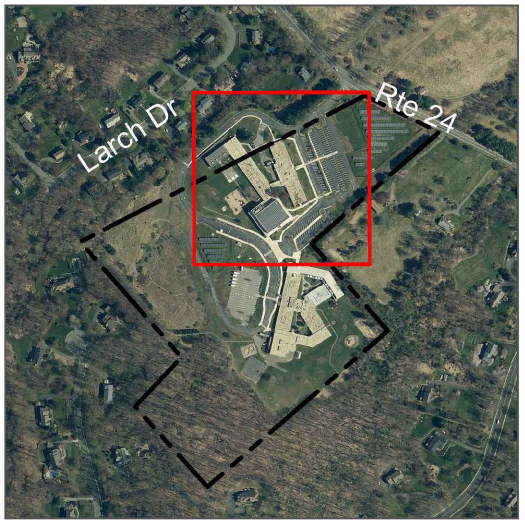


Bragg School

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 50' 100'

GREEN INFRASTRUCTURE RECOMMENDATIONS



Dickerson School

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 50' 100'

42. HUDSON CITY SAVINGS BANK

Subwatershed: Peapack Brook

Site Area: 257,810 sq. ft.

Address: 385 Route 24
Chester, NJ 07930

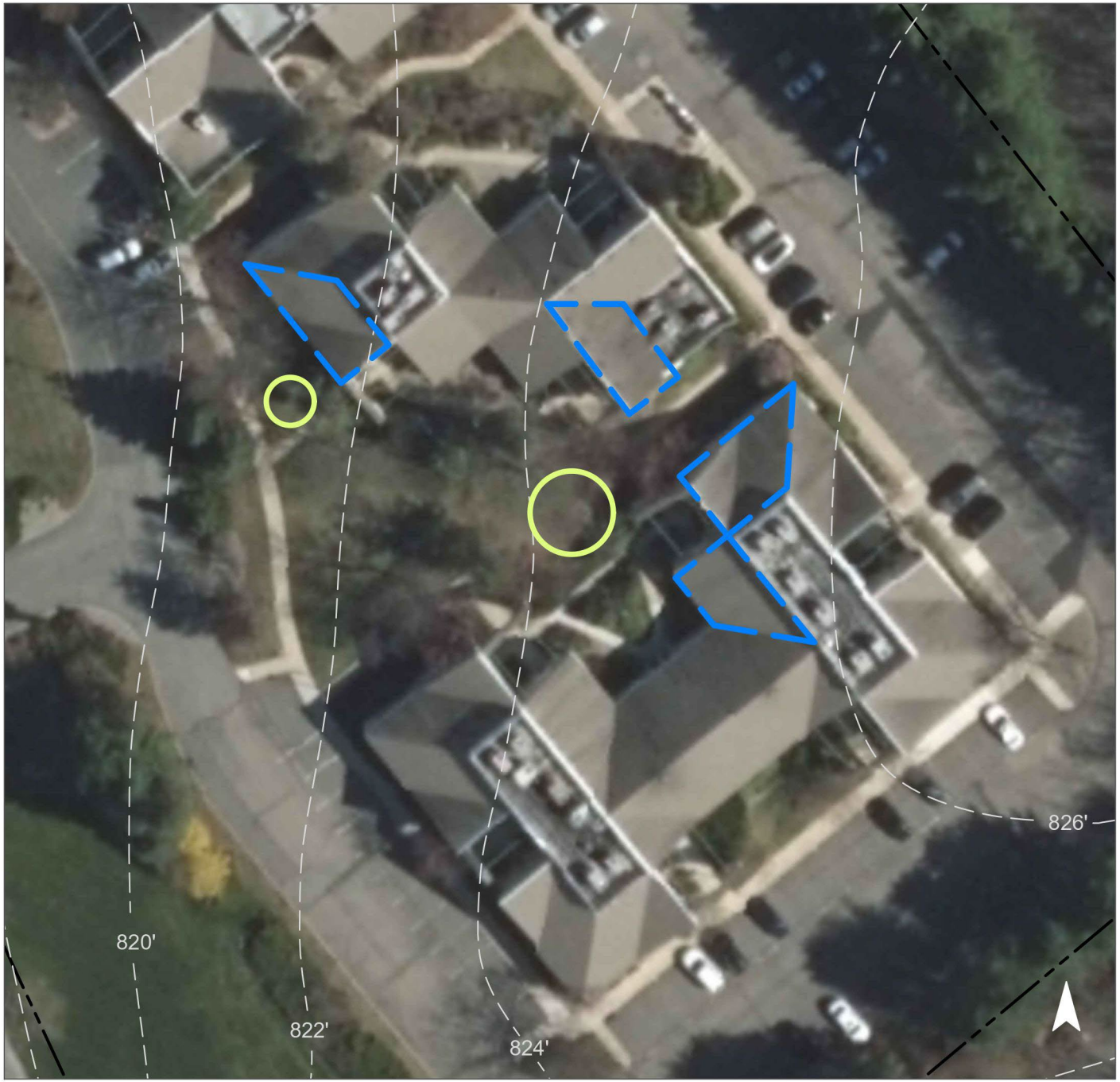
Block and Lot: Block 26.05, Lot 12

Rain gardens can be installed in the center courtyard and to the west of the building to capture rooftop runoff from multiple buildings. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
46	118,660	5.7	59.9	544.8	0.092	3.25

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.82	14	6,020	0.23	790	$3,950

GREEN INFRASTRUCTURE RECOMMENDATIONS



Hudson City Savings Bank

- bioretention system
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

43. IANDOLI & EDENS ATTORNEYS AT LAW

Subwatershed: Peapack Brook

Site Area: 104,110 sq. ft.

Address: 310 Route 24
Chester, NJ 07930

Block and Lot: Block 25, Lot 37.03

A rain garden can be installed to reduce the flooding that occurs east of the parking lot. Pervious pavement can be installed in the parking lot row directly west of the building to capture stormwater runoff from both the parking lot and the rooftop. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
32	33,470	1.6	16.9	153.7	0.026	0.92

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.093	16	6,810	0.26	890	$4,450
Pervious pavement	0.093	16	6,810	0.26	650	$16,250

GREEN INFRASTRUCTURE RECOMMENDATIONS

Iandoli & Edens
Attorneys at Law

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

44. PIZZA & BAGELS 24

Subwatershed: Peapack Brook

Site Area: 132,295 sq. ft.

Address: 2631, 324 Route 24
Chester, NJ 07930

Block and Lot: Block 25, Lot 36

Pervious pavement can be installed in the western corner of the parking lot to capture and infiltrate stormwater runoff from the parking lot. A rain garden can be installed along the roadway south of the building to capture stormwater runoff from the pavement. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
16	20,800	1.0	10.5	95.5	0.016	0.57

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.023	4	1,660	0.06	220	$1,375
Pervious pavement	0.140	23	10,240	0.38	970	$24,250

GREEN INFRASTRUCTURE RECOMMENDATIONS

Pizza & Bagels 24

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

45. BAILEY FUNERAL HOME

Subwatershed: Peapack Brook

Site Area: 24,480 sq. ft.

Address: 176 Main Street
Peapack, NJ 07977

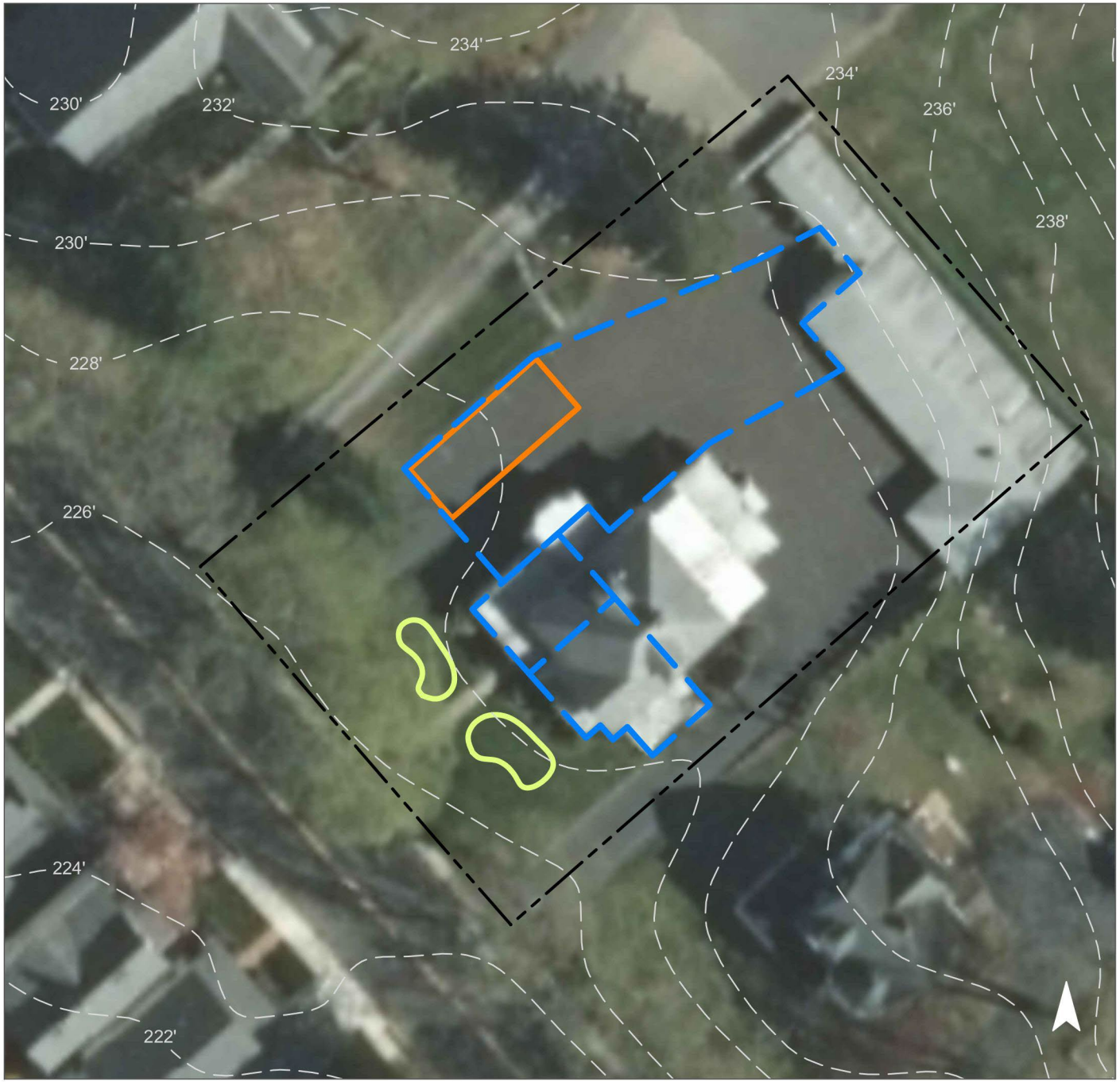
Block and Lot: Block 8, Lot 25

Rain gardens can be installed in front of the building, on either side of the walkway to help capture, treat, and infiltrate rooftop runoff. Pervious pavement can be installed on the northwest side of the home to infiltrate and filter parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
70	17,110	0.8	8.6	78.6	0.013	0.47

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.044	7	3,200	0.12	500	$2,500
Pervious pavement	0.069	11	5,030	0.19	470	$11,750

GREEN INFRASTRUCTURE RECOMMENDATIONS



Bailey Funeral Home

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

46. GLADSTONE TAVERN

Subwatershed: Peapack Brook

Site Area: 50,370 sq. ft.

Address: 273 Main Street
Gladstone, NJ 07934

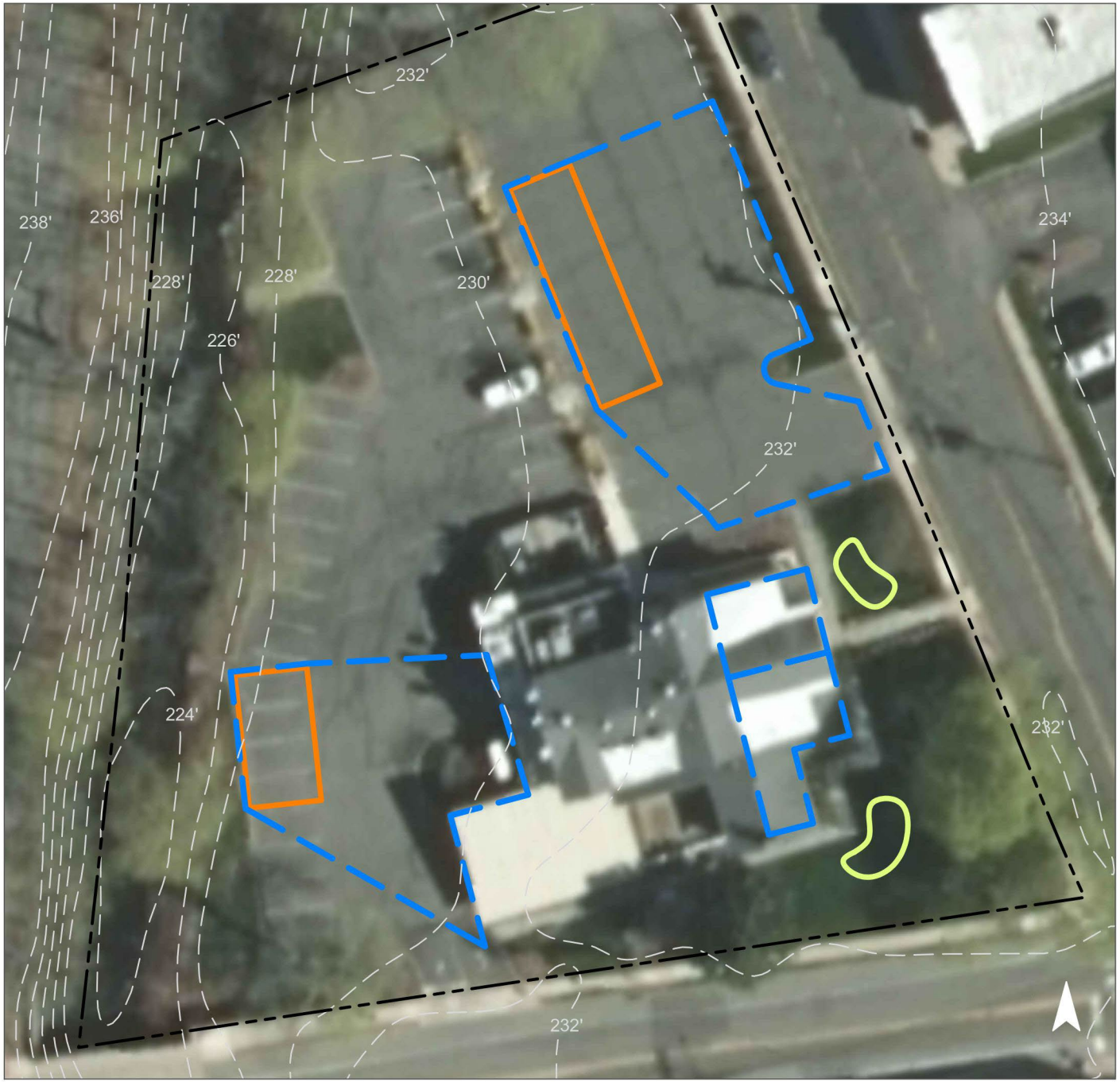
Block and Lot: Block 13, Lot 1

Rain gardens can be installed at the southeast corner of the building to help capture, treat, and infiltrate stormwater runoff from the roof of the building. Pervious pavement can be installed in the parking spaces to the west and to the north of the tavern to infiltrate parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
81	40,975	2.0	20.7	188.1	0.032	1.12

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.038	6	2,780	0.10	500	$2,500
Pervious pavement	0.246	41	18,060	0.68	1,855	$46,375

GREEN INFRASTRUCTURE RECOMMENDATIONS



Gladstone Tavern

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

47. MURPHY CAPITAL MANAGEMENT

Subwatershed: Peapack Brook

Site Area: 9,895 sq. ft.

Address: 268 Main Street
Gladstone, NJ 07934

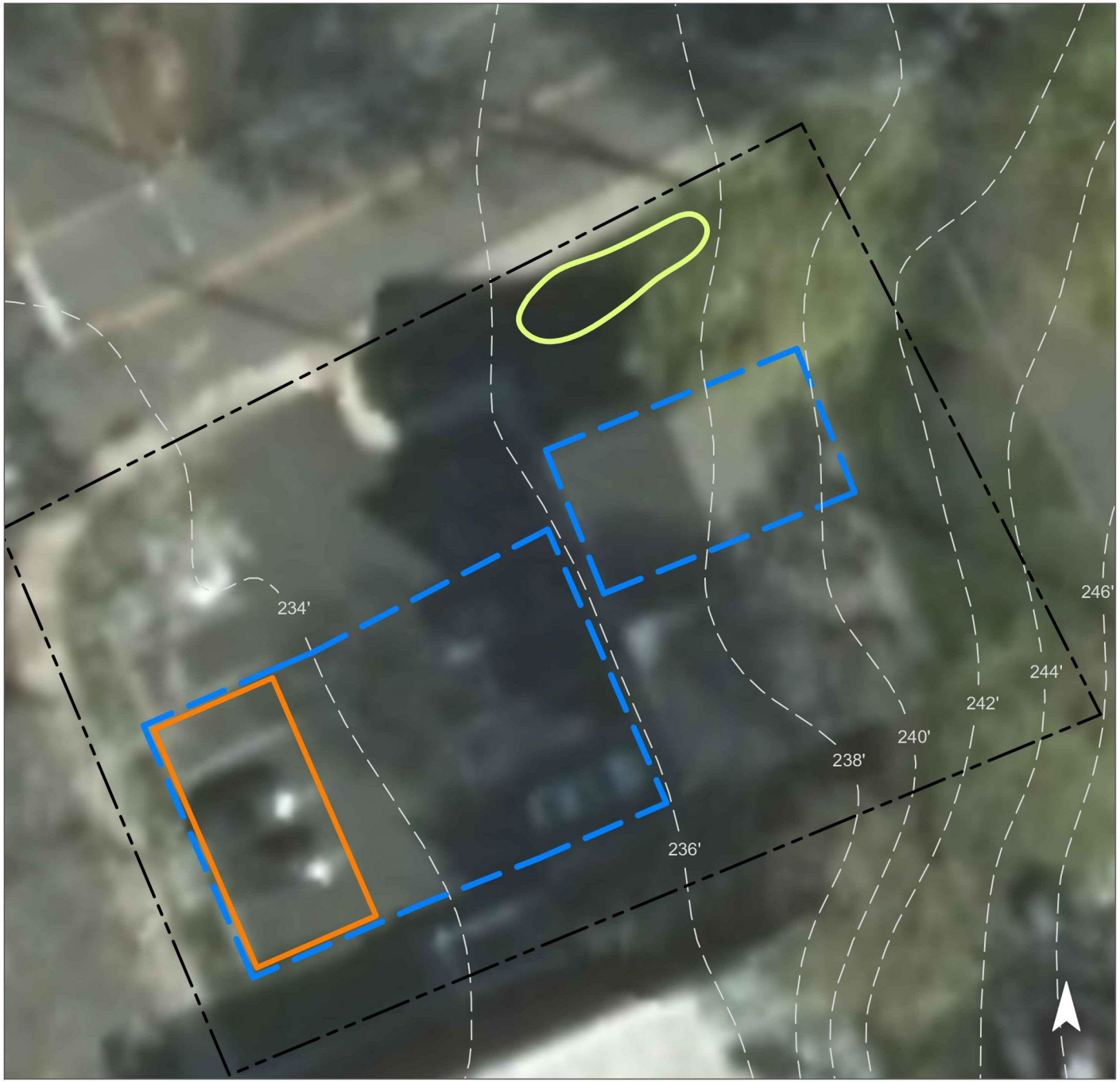
Block and Lot: Block 12, Lot 15

A rain garden can be installed adjacent to the sidewalk and north of the building to capture, treat, and infiltrate stormwater runoff from the roof of the building. Pervious pavement can be installed in the southeastern corner of the parking lot to infiltrate pavement runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
90	8,905	0.4	4.5	40.9	0.007	0.24

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.019	3	1,380	0.05	180	$900
Pervious pavement	0.057	9	4,160	0.16	650	$16,250

GREEN INFRASTRUCTURE RECOMMENDATIONS



Murphy Capital Management

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 10' 20'

48. PEAPACK AND GLADSTONE LIBRARY BRANCH AND POLICE DEPARTMENT

Subwatershed: Peapack Brook

HUC14 ID 02030105060060

Site Area: 181,490 sq. ft.

Address: 1 School Street
Peapack and Gladstone,
NJ 07977

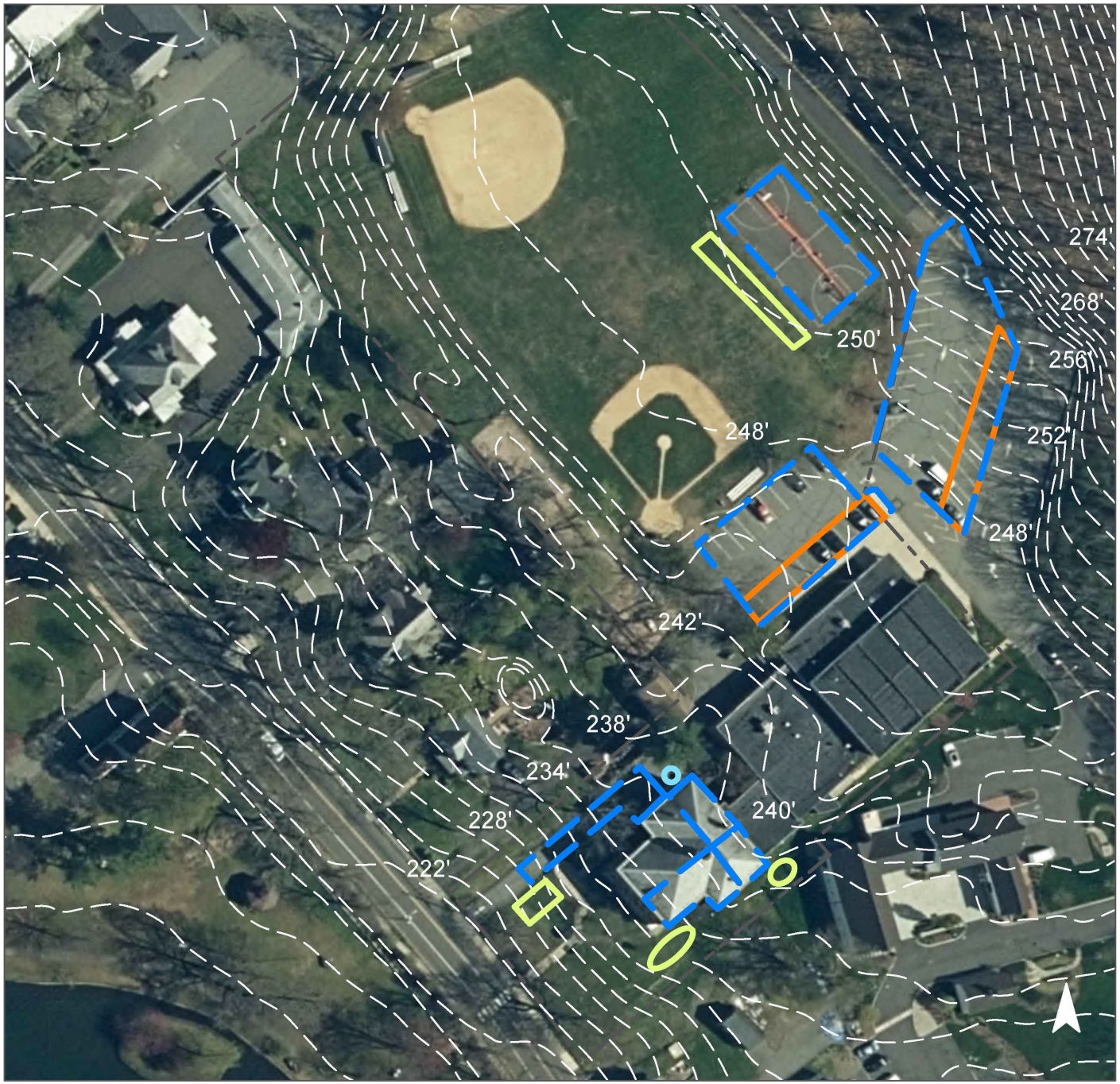
Block and Lot: Block 8, Lot 21

Rain gardens can be installed near the southern end of the building and next to the basketball court to capture, treat, and infiltrate the stormwater runoff from the rooftop and court. This will require disconnecting downspouts, redirecting downspouts under sidewalks, curb cuts, and a trench drain. Existing parking spaces in the parking lot can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. A trench drain may be needed. A cistern can be installed to the west of the building to divert and detain the stormwater runoff from the rooftop for later non-potable reuse such as watering a garden bed or washing vehicles. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 49"
33	59,797	2.9	30.2	274.5	0.047	1.83

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	8,680	0.252	38	16,810	0.63	2,165	$21,650
Pervious pavement	17,935	0.520	78	34,740	1.31	4,210	$105,250
Rainwater harvesting	935	0.027	4	750	0.03	750 (gal)	$2,250

GREEN INFRASTRUCTURE RECOMMENDATIONS



Peapack-Gladstone Library & Police Department

- bioretention system
- pervious pavement
- rainwater harvesting
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 50' 100'

49. PEAPACK FIRE DEPARTMENT

Subwatershed: Peapack Brook

Site Area: 88,770 sq. ft.

Address: 6 Dewey Avenue
Gladstone, NJ 07934

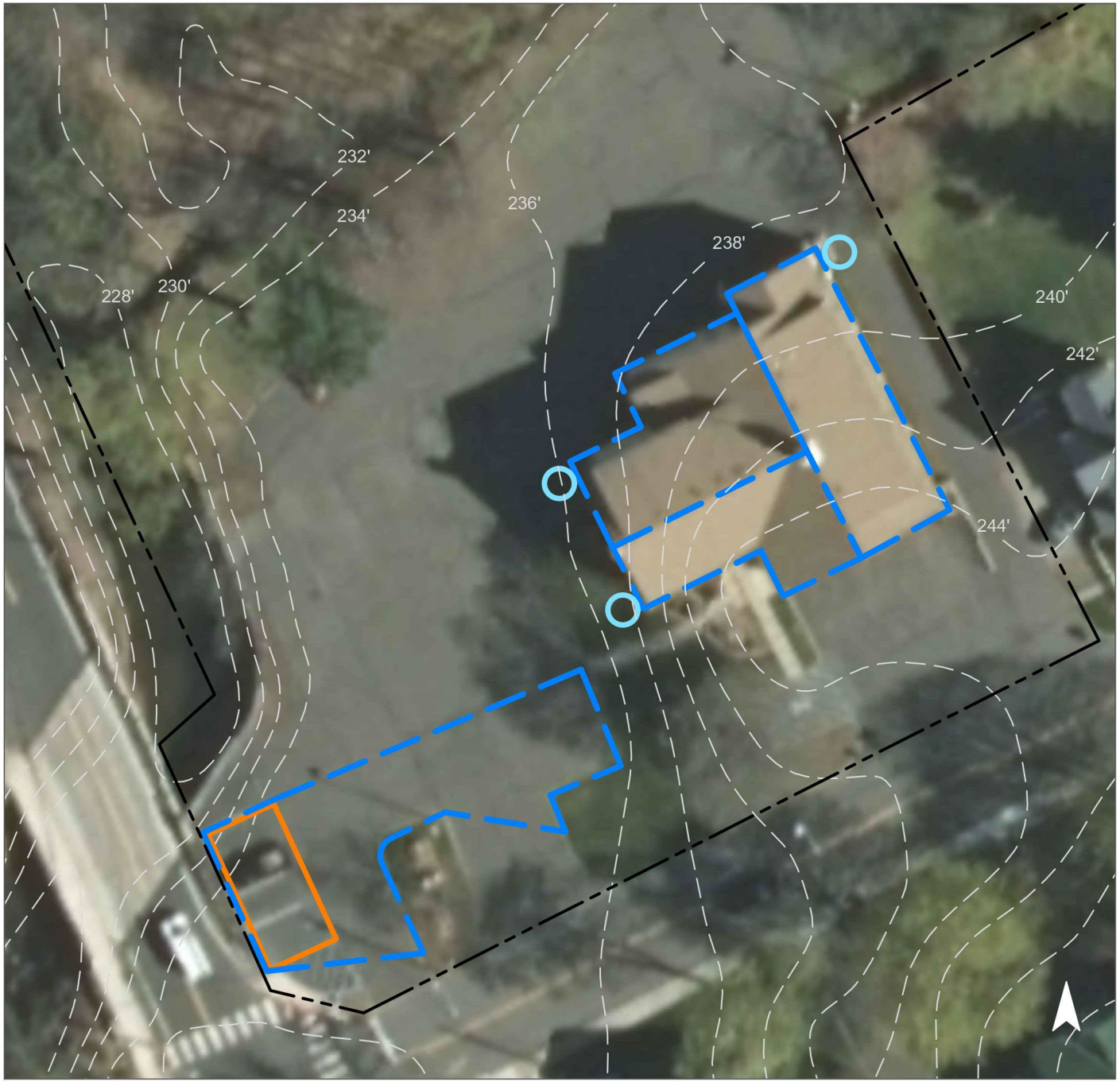
Block and Lot: Block 11, Lot 14

Cisterns can be installed at the southwest, west, and northeast corners of the building to capture and allow non-potable reuse of stormwater. Pervious pavement can be installed in the parking spaces southwest of the building to infiltrate parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
58	51,480	2.5	26.0	236.4	0.040	1.41

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.094	16	6,880	0.26	800	$20,000
Rainwater harvesting	0.136	23	4,500	0.44	4,500 (gal)	$9,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Peapack Fire Department

- pervious pavement
- rainwater harvesting
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

50. PEAPACK REFORMED CHURCH

Subwatershed: Peapack Brook

Site Area: 98,015 sq. ft.

Address: 224 Main Street
Gladstone, NJ 07934

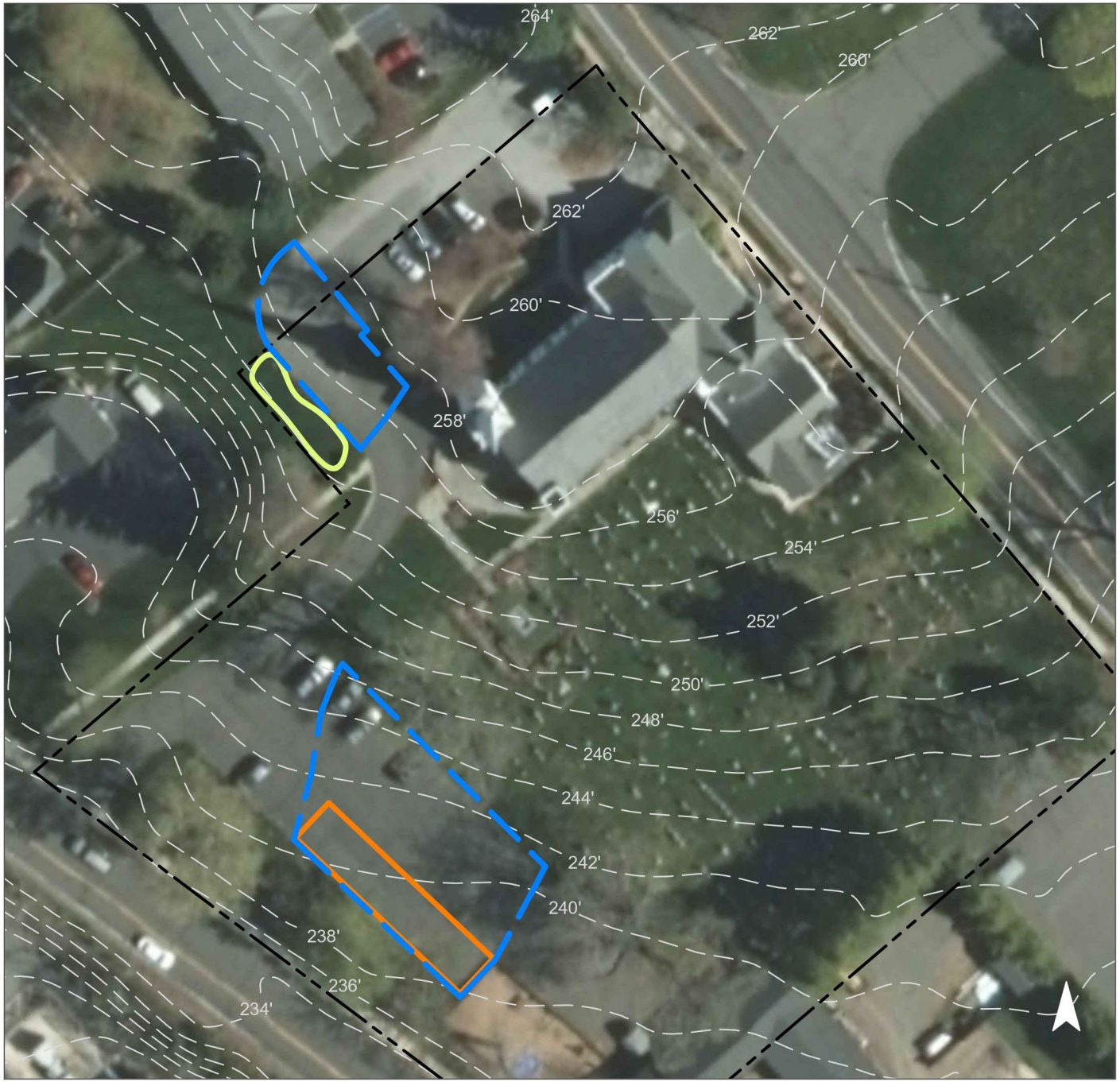
Block and Lot: Block 21, Lot 4

A rain garden can be installed at the edge of the parking lot to the southwest of the church to capture, treat, and infiltrate parking lot runoff. Pervious pavement can be installed in the parking spaces south of the church to infiltrate parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
45	44,415	2.1	22.4	203.9	0.035	1.22

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.068	11	4,970	0.19	650	$3,250
Pervious pavement	0.168	28	12,290	0.46	1,800	$45,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Peapack Reformed Church

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 30' 60'

51. PEAPACK-GLADSTONE BANK

Subwatershed: Peapack Brook

Site Area: 149,780 sq. ft.

Address: 190 Main Street
Gladstone, NJ 07934

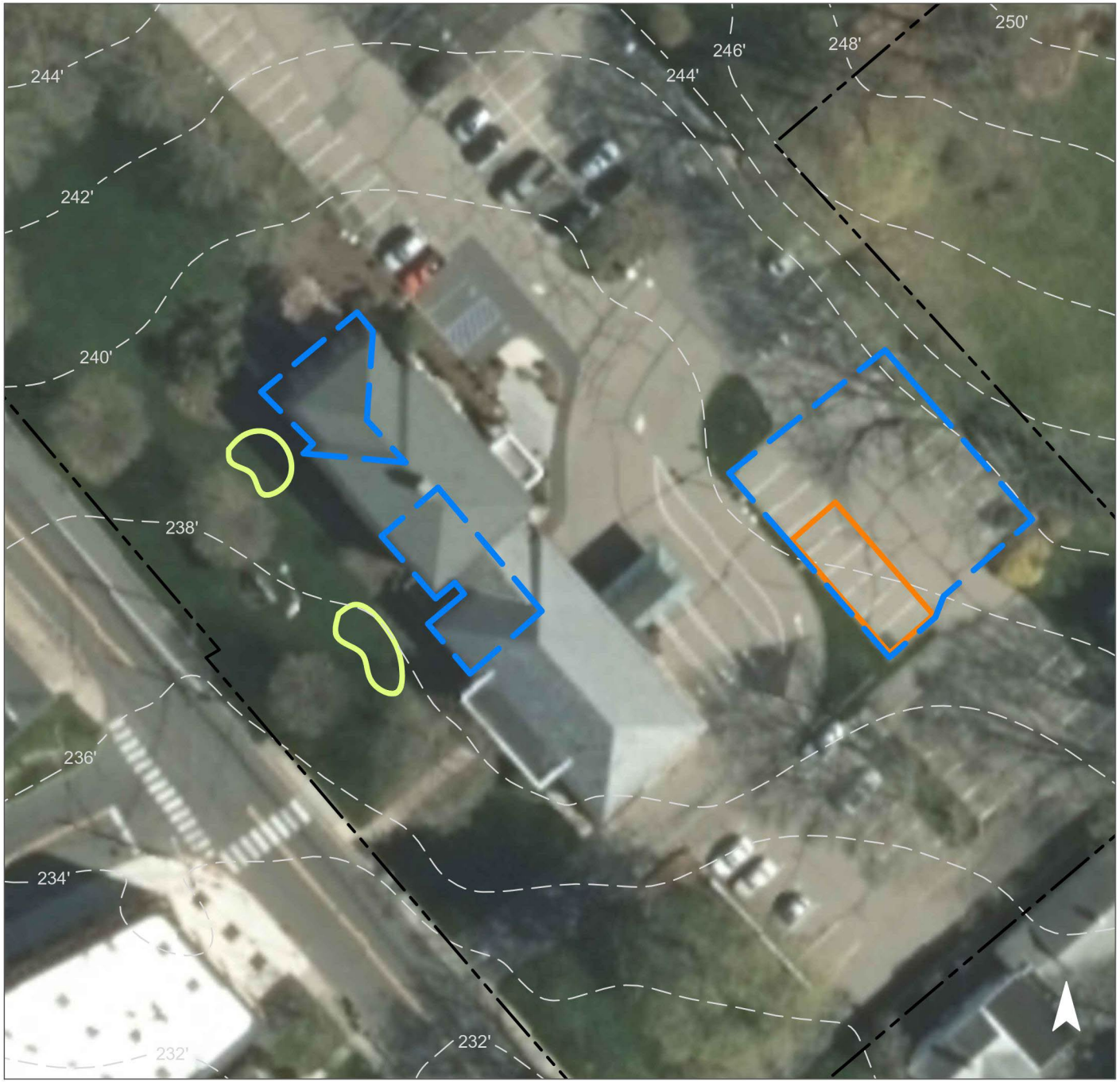
Block and Lot: Block 8, Lot 5

Rain gardens can be installed at the northwest corner and in front of the bank to capture, treat, and infiltrate rooftop runoff. Pervious pavement can be installed in the parking spaces behind the building to infiltrate and filter parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
41	61,270	3.0	30.9	281.3	0.048	1.68

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.066	11	4,810	0.18	630	$3,150
Pervious pavement	0.155	26	11,390	0.43	1,000	$25,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Peapack-Gladstone Bank

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

52. PEAPACK-GLADSTONE FIRST AID SQUAD

Subwatershed: Peapack Brook

HUC14 ID 02030105060060

Site Area: 39,230 sq. ft.

Address: 1 Saint Lukes Avenue
Gladstone, NJ 07934

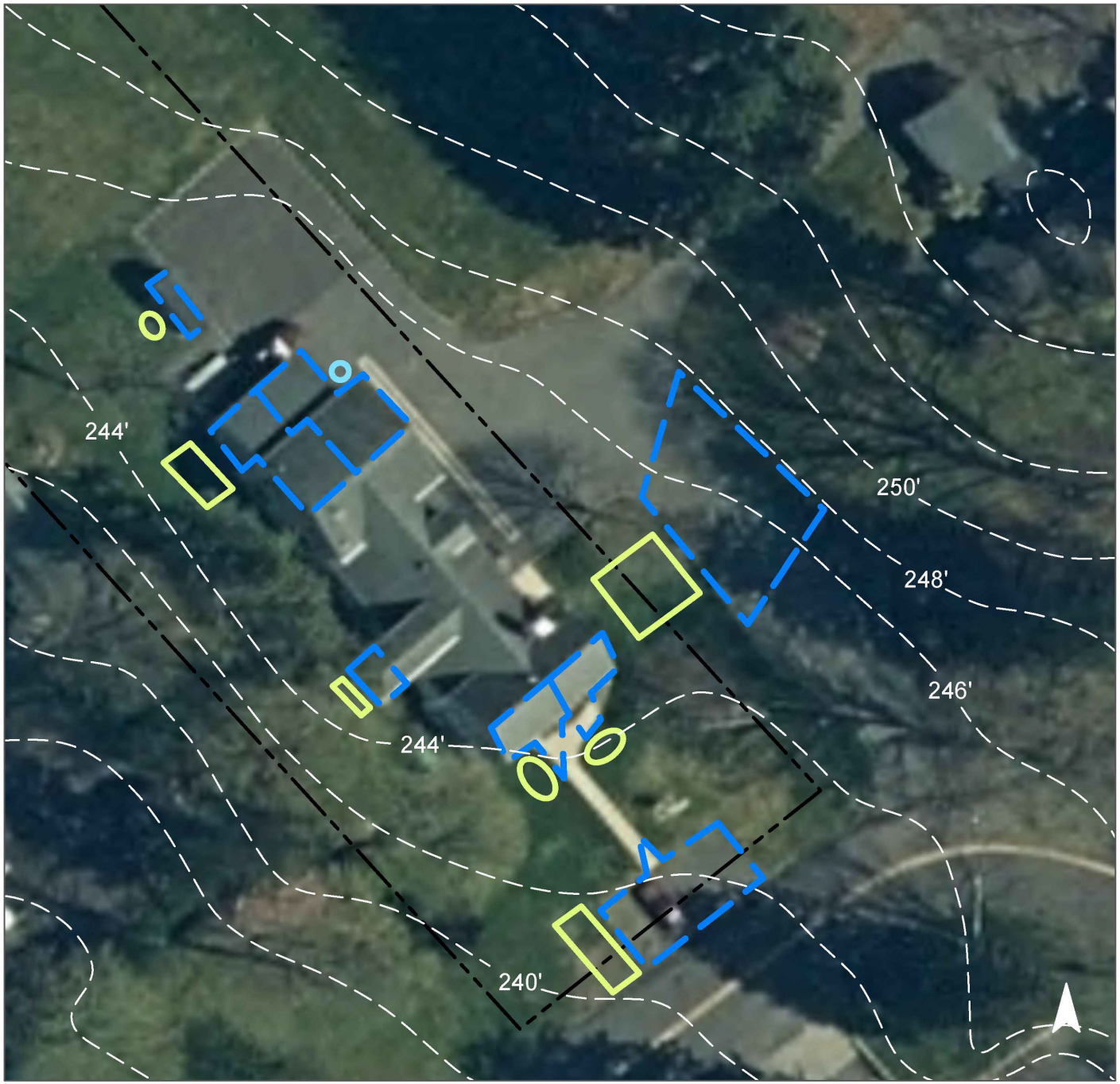
Block and Lot: Block 8, Lot 10

Multiple rain gardens can be installed in the grass areas surrounding the building to capture, treat, and infiltrate stormwater runoff from the rooftop and from the driveway. This requires disconnecting downspouts, curb cuts, and trench drains. A cistern can be installed behind the building to divert and detain the stormwater runoff from the rooftop for later non-potable reuse such as watering a garden bed or washing vehicles. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 49"
23	9,094	0.4	4.6	41.8	0.007	0.28

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	3,555	0.103	15	6,880	0.26	890	$8,900
Rainwater harvesting	585	0.017	2	500	0.02	500 (gal)	$1,500

GREEN INFRASTRUCTURE RECOMMENDATIONS



Peapack-Gladstone First Aid Squad

- bioretention system
- rainwater harvesting
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 20' 40'

53. ST. LUKE'S EPISCOPAL CHURCH

Subwatershed: Peapack Brook

Site Area: 64,825 sq. ft.

Address: 182 Main Street
Gladstone, NJ 07934

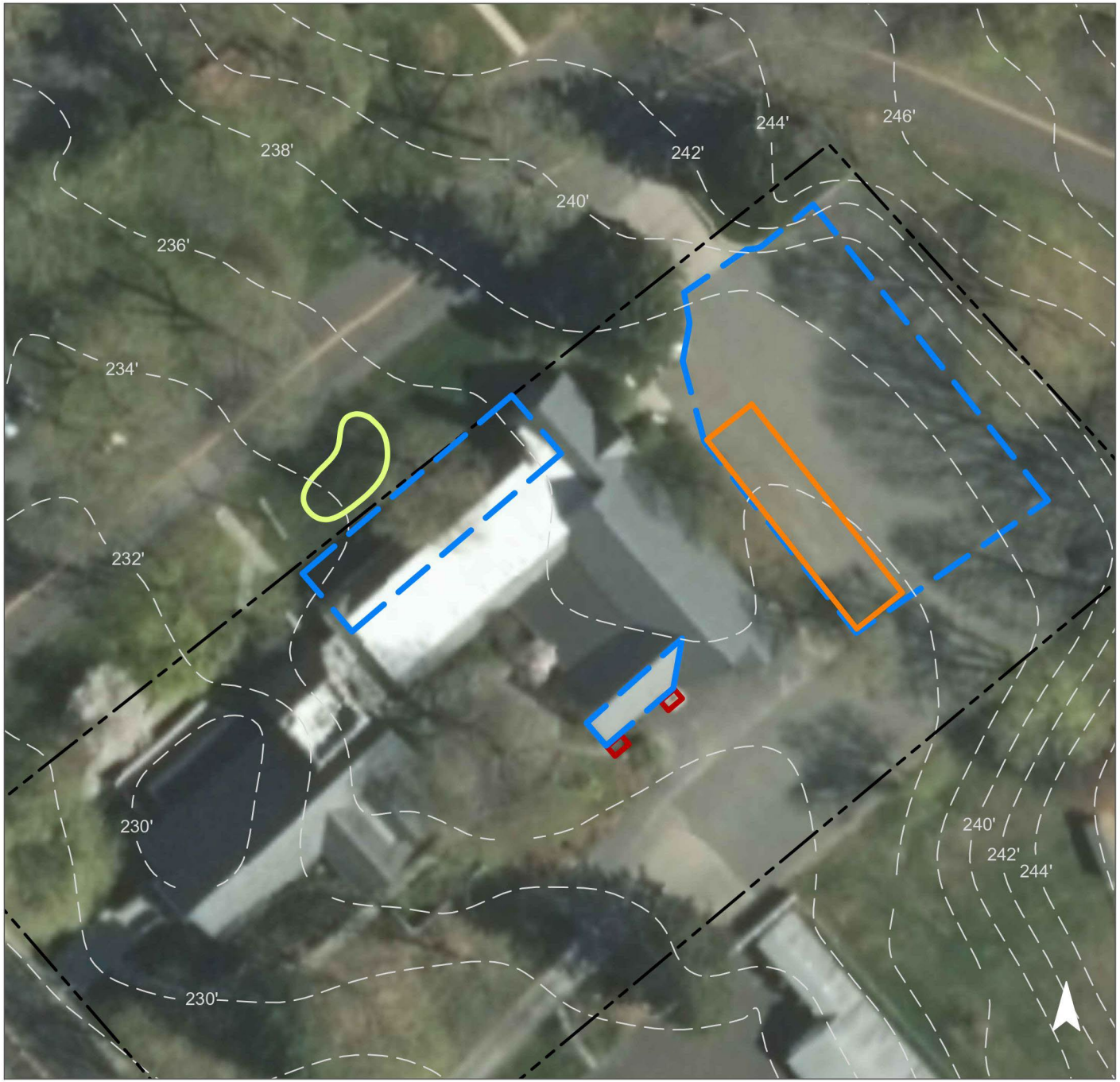
Block and Lot: Block 8, Lot 26

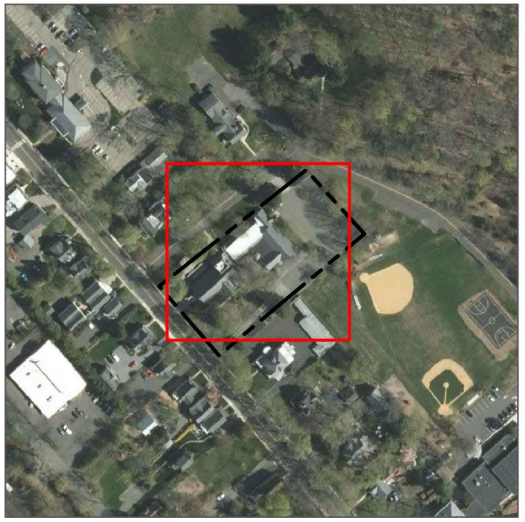
A rain garden can be installed north of the church to capture, treat, and infiltrate rooftop runoff. Downspout planter boxes can be installed by the main entrance to capture and filter stormwater. Pervious pavement can be installed in the parking spaces to the northeast of the church to filter and infiltrate stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
69	44,985	2.2	22.7	206.5	0.035	1.23

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.059	10	4,300	0.16	565	$2,825
Pervious pavement	0.233	39	17,130	0.64	1,600	$40,000
Planter boxes	n/a	1	n/a	n/a	2 (boxes)	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS





St. Luke's Episcopal Church

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

54. ST. BRIGID ROMAN CATHOLIC CHURCH

Subwatershed: Peapack Brook

HUC14 ID 02030105060060

Site Area: 139,874 sq. ft.

Address: 129 Main Street
Peapack, NJ 07977

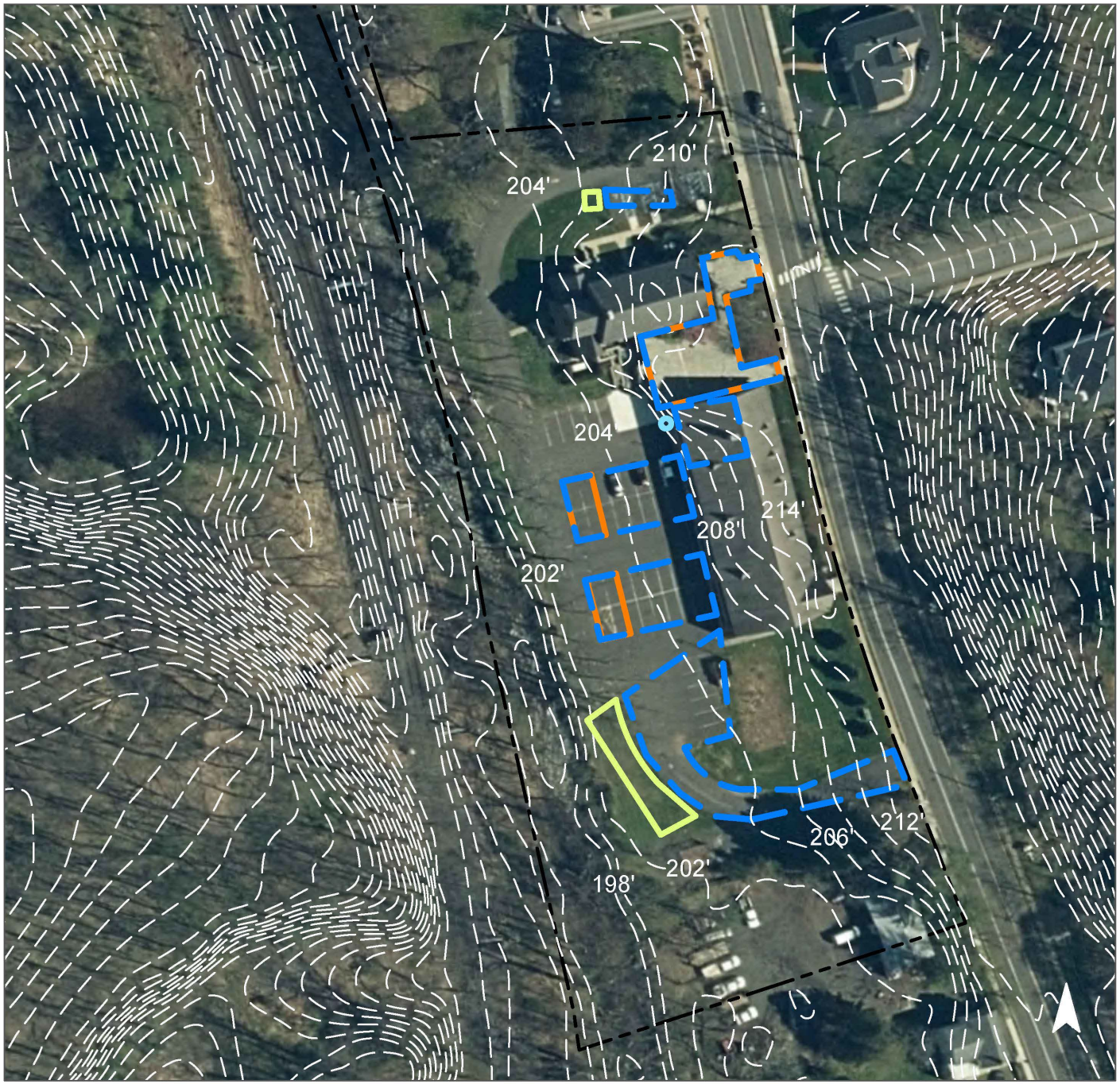
Block and Lot: Block 23, Lot 10

Rain gardens can be installed near the southern and northern driveways to capture, treat, and infiltrate the stormwater runoff from the asphalt. A trench drain and curb cuts may be required. The existing parking spaces in the center of the parking lot can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. The stone in the courtyard can be replaced with porous pavers to infiltrate stormwater runoff from the courtyard. A cistern can be installed to the south of the building to divert and detain the stormwater runoff from the rooftop for later non-potable reuse such as watering a garden bed or washing a vehicle. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 49"
54	75,641	3.6	38.2	347.3	0.059	2.31

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	7,070	0.205	30	13,700	0.51	1,770	$17,700
Pervious pavement	10,505	0.305	46	20,350	0.76	5,745	$143,625
Rainwater harvesting	1,525	0.044	8	1,200	0.04	1,200 (gal)	$3,600

GREEN INFRASTRUCTURE RECOMMENDATIONS



St. Brigid Roman Catholic Church

- bioretention system
- pervious pavement
- rainwater harvesting
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 50' 100'

55. USPS

Subwatershed: Peapack Brook

Site Area: 6,430 sq. ft.

Address: 266 Main Street
Gladstone, NJ 07934

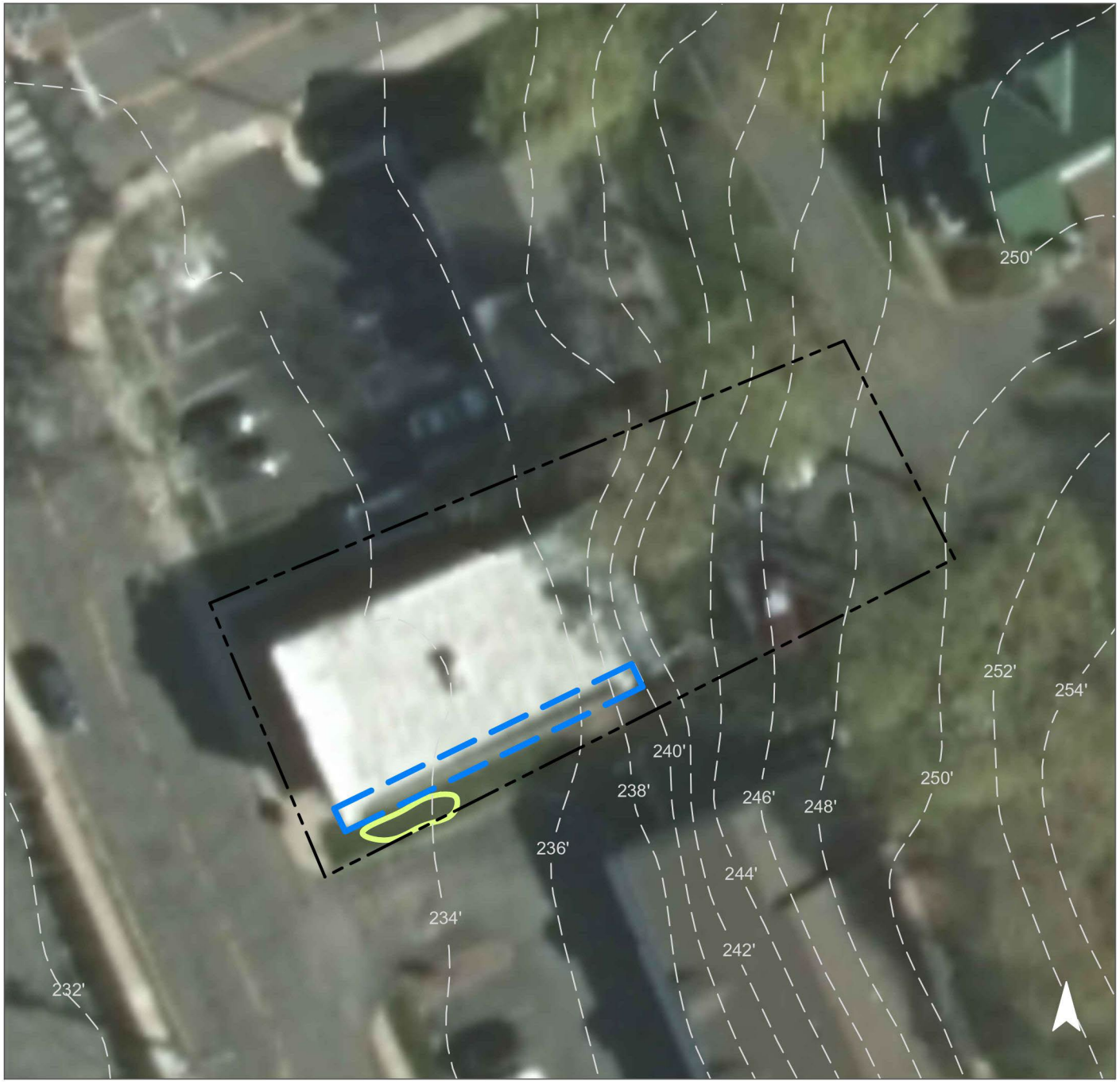
Block and Lot: Block 12, Lot 14

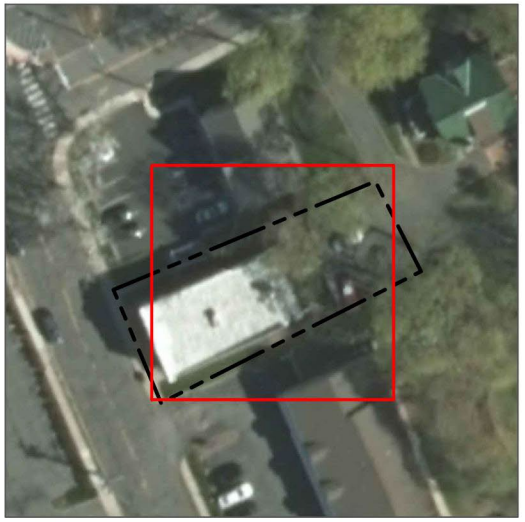
A rain garden can be installed between the post office and the parking lot to capture, treat, and infiltrate rooftop runoff since no gutters are installed. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
90	5,785	0.3	2.9	26.6	0.005	0.16

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.008	1	620	0.02	80	$400

GREEN INFRASTRUCTURE RECOMMENDATIONS





USPS

- bioretention system
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 15' 30'

56. BEDWELL ELEMENTARY SCHOOL

Subwatershed: Raritan River North Branch

Site Area: 684,276 sq. ft.

Address: 141 Seney Drive
Bernardsville, NJ 07924

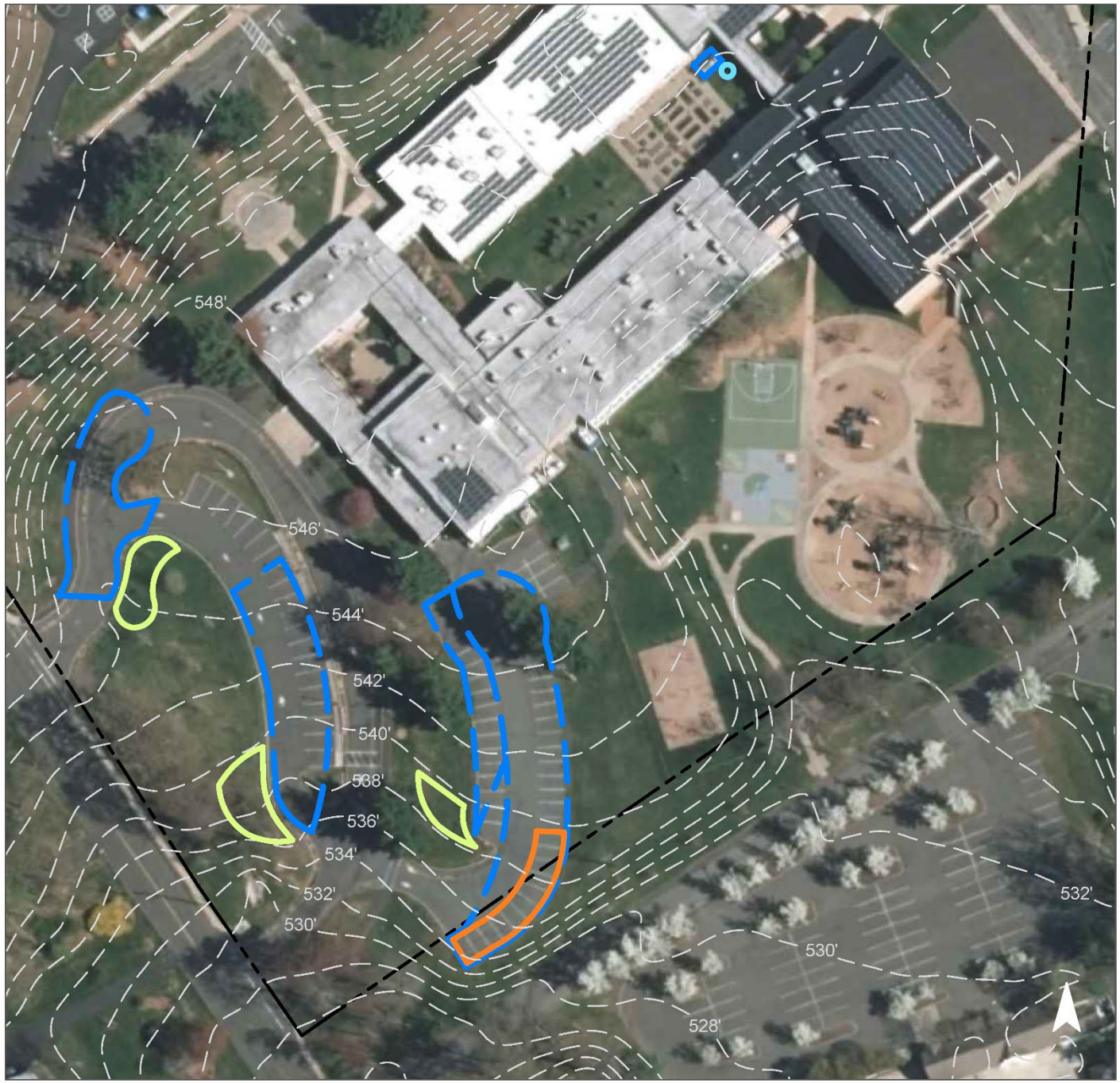
Block and Lot: Block 35, Lot 1

Rain gardens can be installed in parking lot islands to capture, treat, and infiltrate stormwater runoff from the parking lot. A section of parking spaces can be converted to porous asphalt to capture and infiltrate runoff from the parking lot as well. A rain barrel can be installed at the small greenhouse in the courtyard to capture runoff to be reused for watering the garden. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
52	357,822	17.3	180.7	1,642.9	0.279	9.81

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.351	59	25,750	0.97	3,370	$16,850
Pervious pavement	0.278	47	20,420	0.77	1,925	$48,125
Rainwater harvesting	0.004	1	115	0.00	115 (gal)	$230

GREEN INFRASTRUCTURE RECOMMENDATIONS



Bedwell Elementary School

- bioretention system
- pervious pavement
- rainwater harvesting
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

57. BERNARDSVILLE FIRE COMPANY

Subwatershed: Raritan River North Branch

Site Area: 46,026 sq. ft.

Address: 118 Mine Brook Road
Bernardsville, NJ 07924

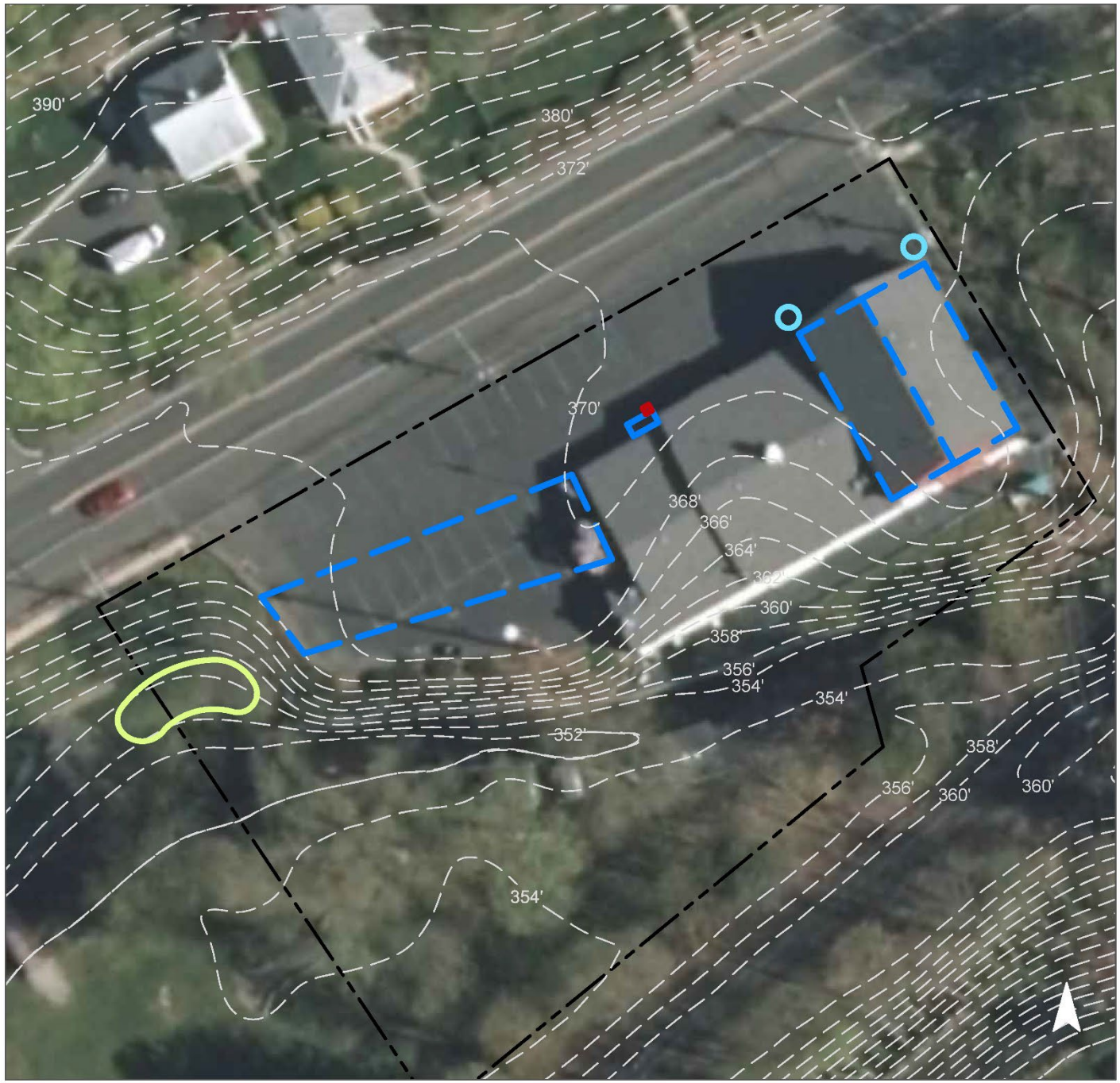
Block and Lot: Block 97, Lot 2

Cisterns can be installed at the northeast and west corners of the main building to capture and reuse stormwater. A downspout planter box can be installed next to the main entrance to capture and filter stormwater. A rain garden can be installed at the bottom of the hill to help manage stormwater causing erosion along the hill. Additional measures should be taken to stabilize the slope. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
60	27,463	1.3	13.9	126.1	0.021	0.75

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.073	12	5,360	0.20	700	$3,500
Planter box	n/a	0.1	n/a	n/a	1 (box)	$1,000
Rainwater harvesting	0.076	13	2,280	0.26	2,280 (gal)	$4,560

GREEN INFRASTRUCTURE RECOMMENDATIONS



Bernardsville Fire Company

- bioretention system
- planter box
- rainwater harvesting
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

58. BERNARDSVILLE LIBRARY

Subwatershed: Raritan River North Branch

Site Area: 131,851 sq. ft.

Address: 1 Anderson Hill Road
Bernardsville, NJ 07924

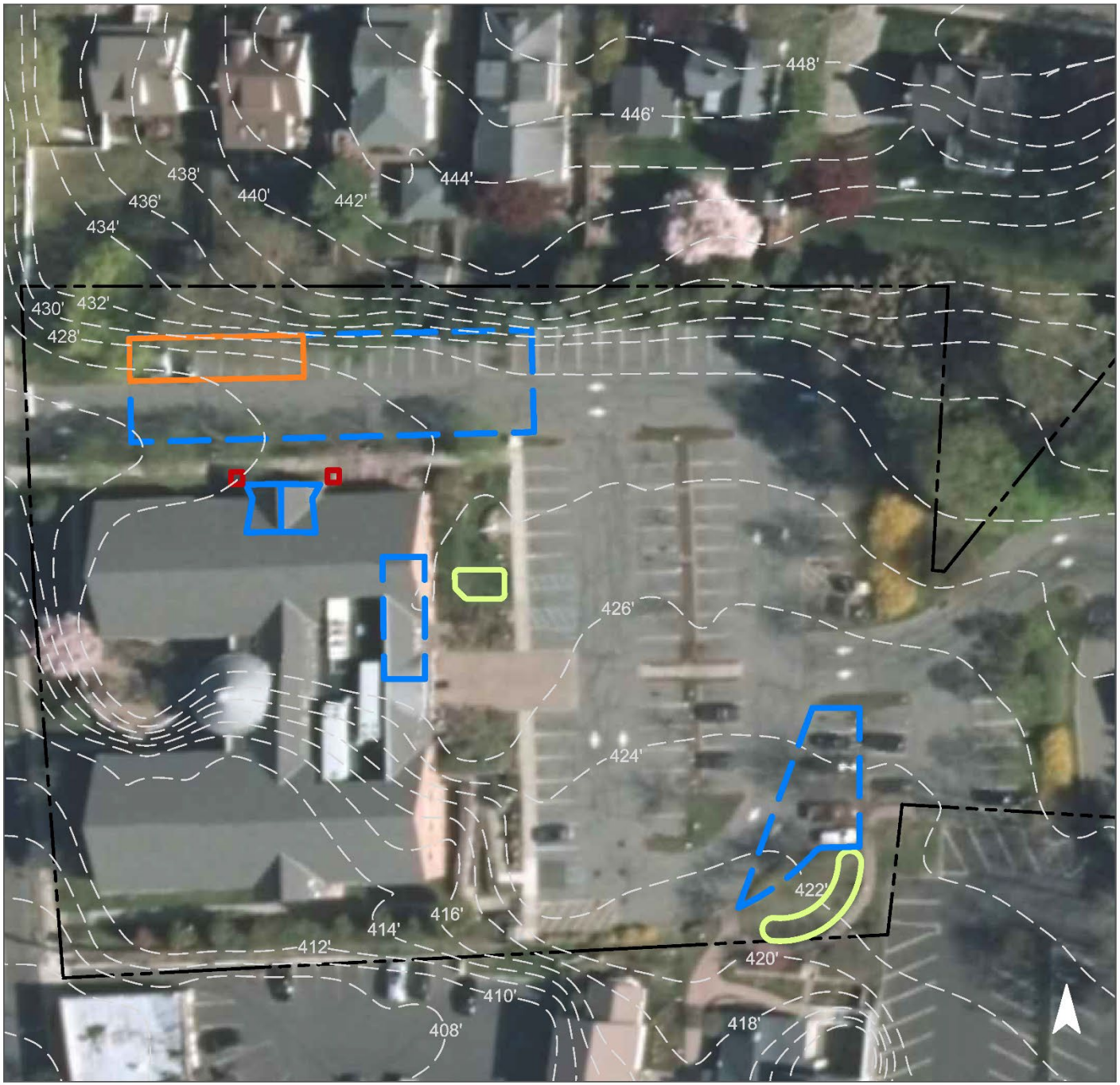
Block and Lot: Block 66, Lot 22

Downspout planter boxes can be installed alongside the northern side of the building to capture and filter stormwater. Pervious pavement can be installed in the parking spaces to the east to capture, treat, and infiltrate parking lot runoff. Rain gardens can be installed adjacent to parking spaces and downspouts to capture, treat, and infiltrate runoff from the parking lot and rooftop. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
81	106,775	5.1	53.9	490.2	0.083	2.93

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.066	11	4,810	0.18	680	$3,400
Pervious pavement	0.167	28	12,240	0.46	1,145	$28,625
Planter boxes	n/a	2	n/a	n/a	2 (boxes)	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Bernardsville Library

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 30' 60'

59. BERNARDSVILLE MUNICIPAL COURT & NERVINE PARK

Subwatershed: Raritan River North Branch

Site Area: 465,036 sq. ft.

Address: 166 Mine Brook Road
Bernardsville, NJ 07924

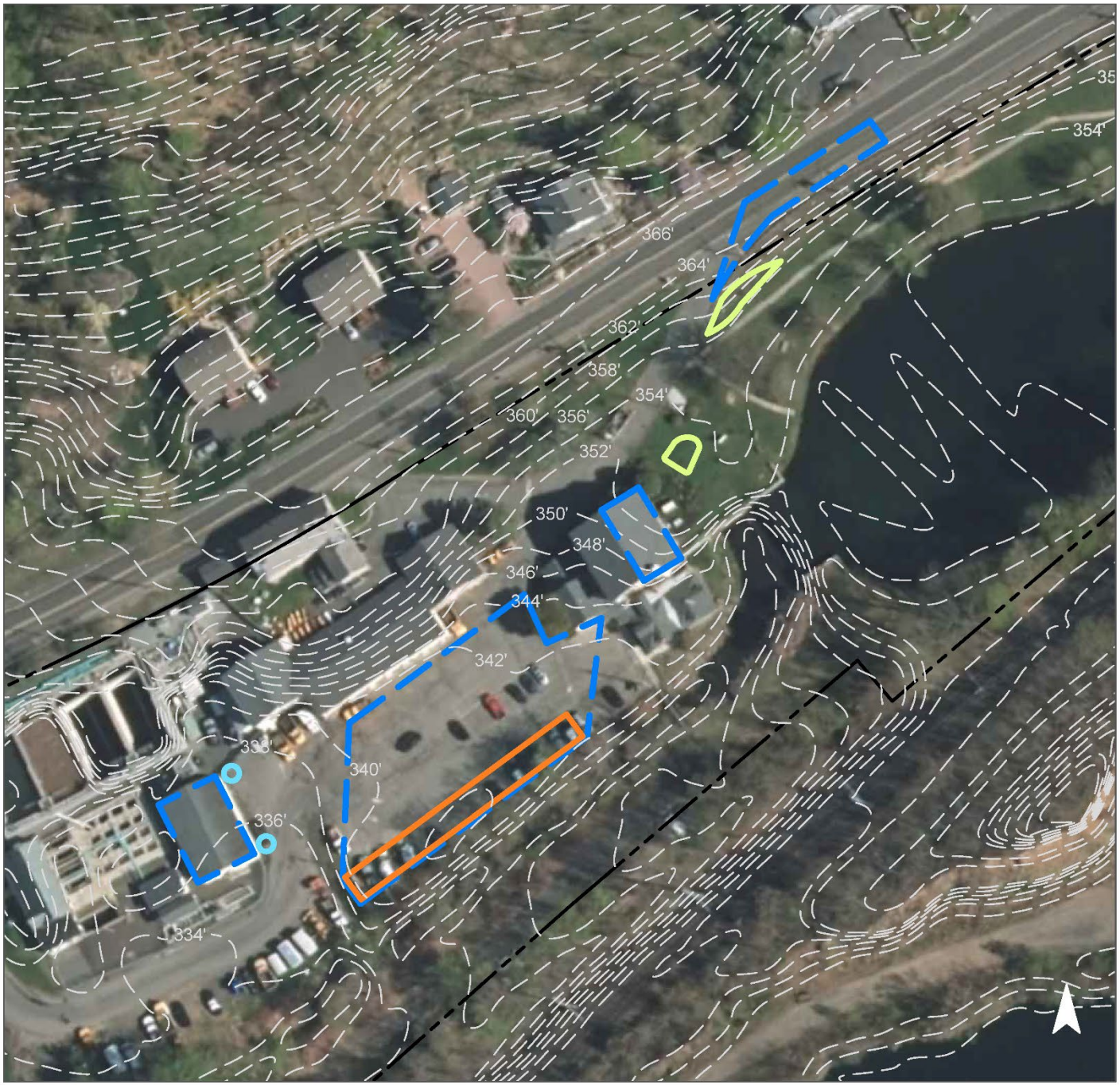
Block and Lot: Block 97, Lot 1

Pervious pavement can be installed in the parking lot to capture, treat, and infiltrate parking lot runoff. Two cisterns can be attached to the building to capture and filter stormwater runoff from the rooftop. Rain gardens can be installed adjacent to the roadways to capture, treat, and infiltrate runoff from the road. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
34	156,500	7.5	79.0	718.5	0.122	4.29

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.241	40	17,710	0.67	2,315	$11,575
Pervious pavement	0.473	79	34,690	1.30	3,240	$81,000
Rainwater harvesting	0.061	10	1,830	0.07	1,830 (gal)	$3,660

GREEN INFRASTRUCTURE RECOMMENDATIONS

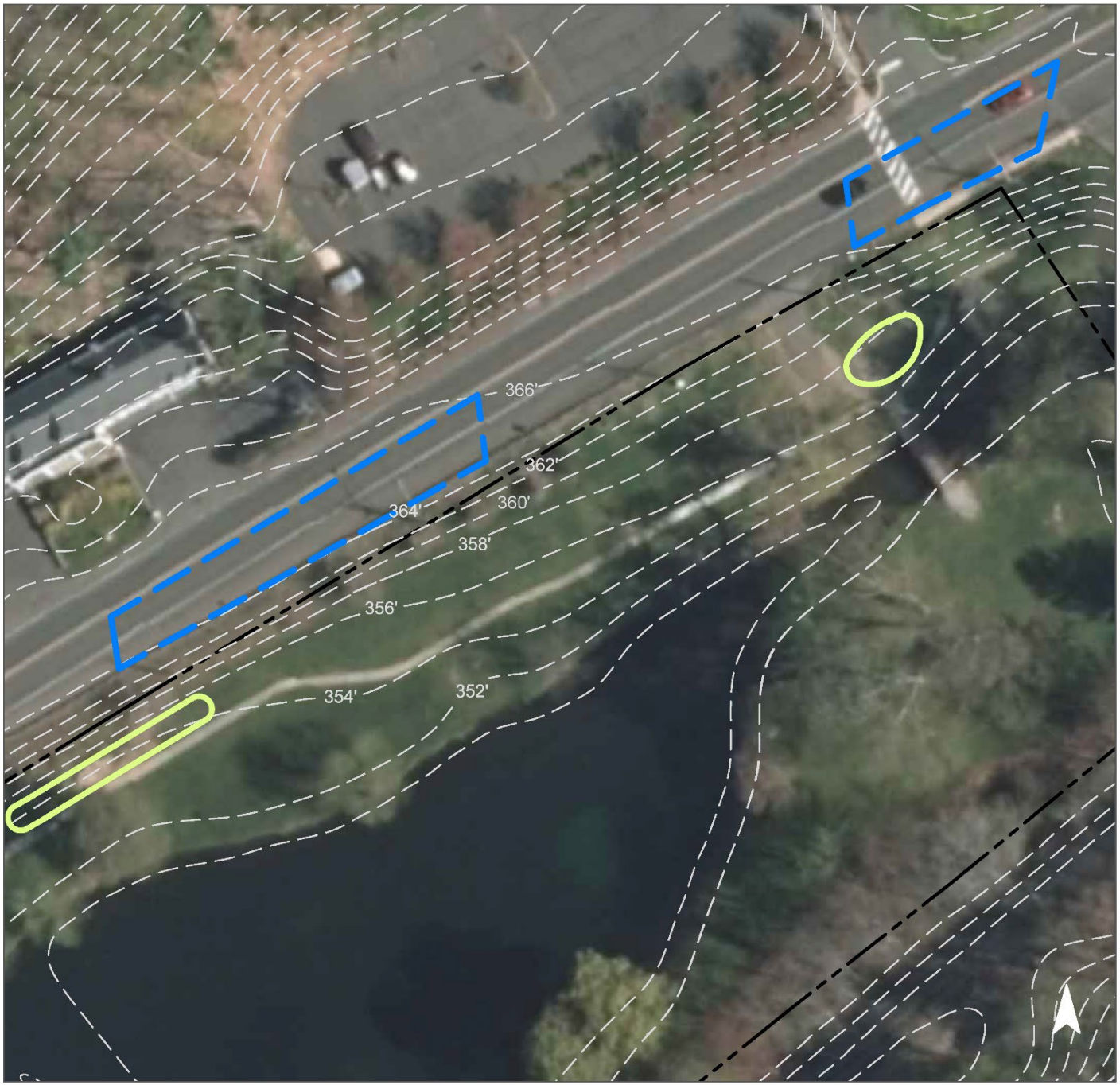


Bernardsville Municipal Court

- bioretention system
- pervious pavement
- rainwater harvesting
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

GREEN INFRASTRUCTURE RECOMMENDATIONS



Nervine Park

- bioretention system
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 30' 60'

60. BERNARDSVILLE MUNICIPAL POOL

Subwatershed: Raritan River North Branch

Site Area: 1,630,208 sq. ft.

Address: 141 Seney Drive
Bernardsville, NJ 07924

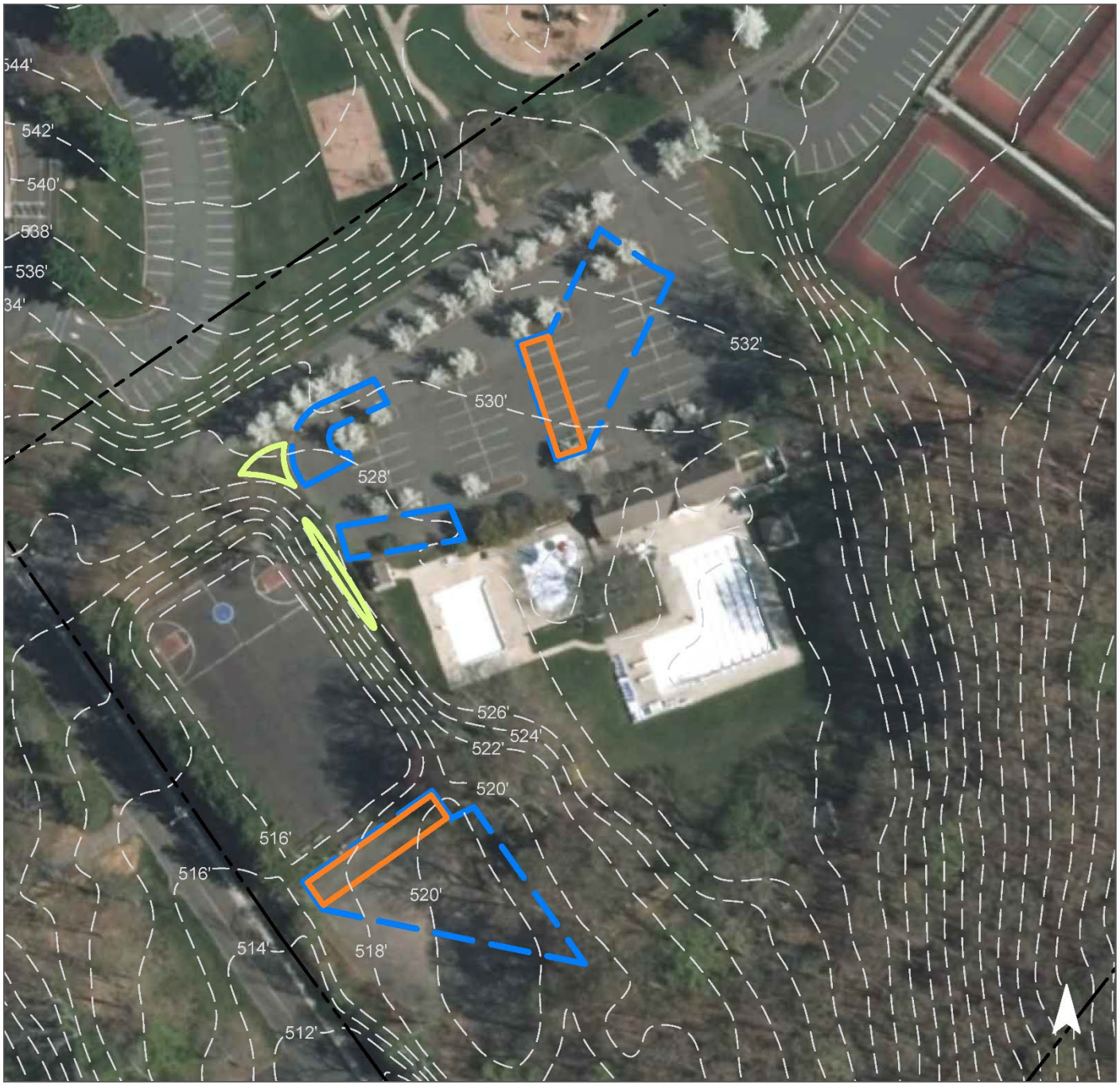
Block and Lot: Block 35, Lot 2, 6

Two sections of parking spaces can be converted to pervious pavement to capture and infiltrate parking lot runoff. Sections of turfgrass adjacent to the parking lot can be converted to rain gardens to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
16	263,800	12.7	133.2	1,211.2	0.206	7.24

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.088	15	6,460	0.24	845	$4,225
Pervious pavement	0.460	77	33,760	1.27	3,150	$78,750

GREEN INFRASTRUCTURE RECOMMENDATIONS



Bernardsville Municipal Pool

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

61. BERNARDSVILLE SCHOOL OF MUSIC

Subwatershed: Raritan River North Branch

Site Area: 36,235 sq. ft.

Address: 75 Claremont Road #101
Bernardsville, NJ 07924

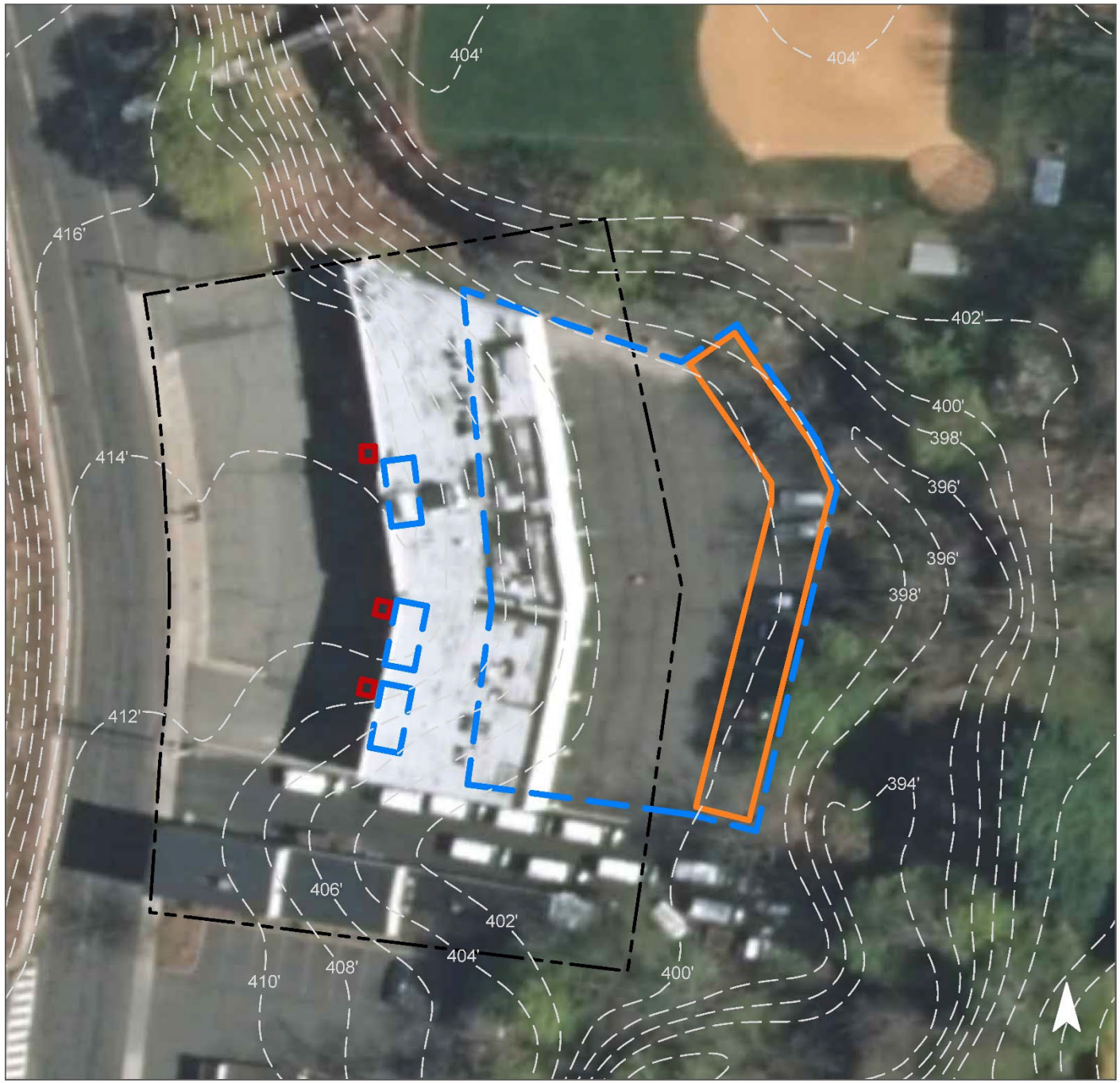
Block and Lot: Block 69, Lot 5, 6, 7

Pervious pavement can be installed in the back parking lot to capture, treat, and infiltrate parking lot runoff. Downspout planter boxes can be installed at the bases of the downspouts connected to the support beams at the southeast corner of the building to capture and filter stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
81	29,441	1.4	14.9	135.2	0.023	0.81

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.423	71	31,050	1.17	2,900	$72,500
Planter boxes	n/a	2	n/a	n/a	3 (boxes)	$3,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Bernardsville School of Music

- planter box
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

62. CHURCH OF SAINT JOHN OF THE MOUNTAIN

Subwatershed: Raritan River North Branch

Site Area: 124,250 sq. ft.

Address: 370 Mount Harmony Road
Bernardsville, NJ 07924

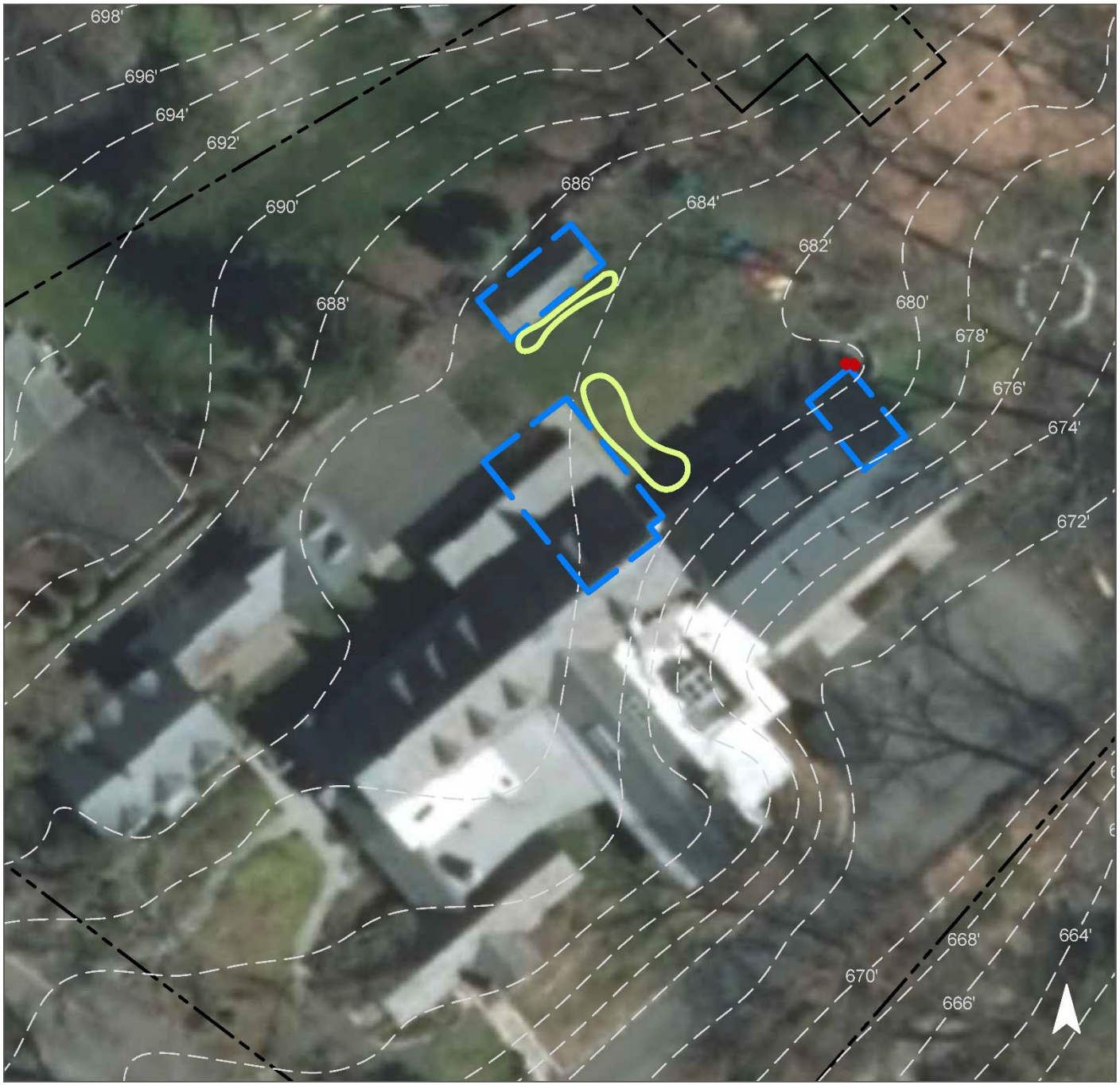
Block and Lot: Block 14, Lot 21

Rain gardens can be installed at the corner of the sidewalk and adjacent to the shed to the north of the church to capture, treat, and infiltrate rooftop runoff. Downspout planter boxes can be installed at the northeast corner of the building to capture and filter stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
27	33,683	1.6	17.0	154.7	0.026	0.92

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.042	7	3,100	0.14	405	$2,025
Planter boxes	n/a	1	n/a	n/a	2 (boxes)	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Church of Saint John of the Mountain

- bioretention system
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

63. EDIBLE ARRANGEMENTS

Subwatershed: Raritan River North Branch

Site Area: 6,128 sq. ft.

Address: 55 US Route 202
Far Hills, NJ 07931

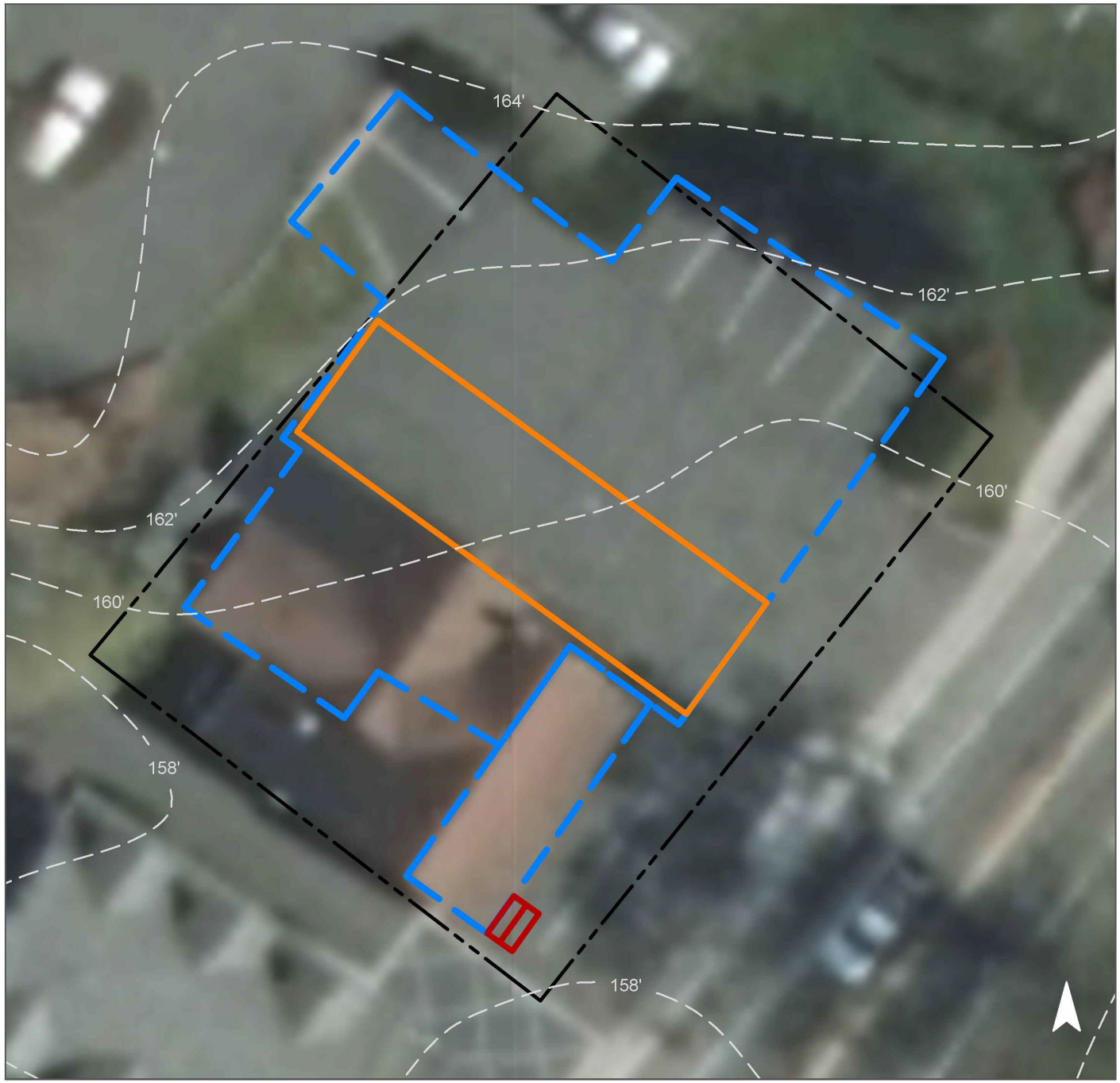
Block and Lot: Block 15, Lot 8

Parking spaces in the parking lot to the north of the building can be converted to porous pavement to capture and infiltrate stormwater runoff from the parking lot and roof. The downspout on the front of the building can be directed to downspout planter boxes to help capture stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
89	5,474	0.3	2.6	23.9	0.004	0.14

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.122	20	8,946	0.34	1,135	$28,375
Planter boxes	n/a	2	n/a	n/a	2 (boxes)	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Edible Arrangements

- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 10' 20'

64. EXPRESS YOURSELF SALON

Subwatershed: Raritan River North Branch

Site Area: 17,100 sq. ft.

Address: US Route 202 & Peapack Road
Far Hills, NJ 07931

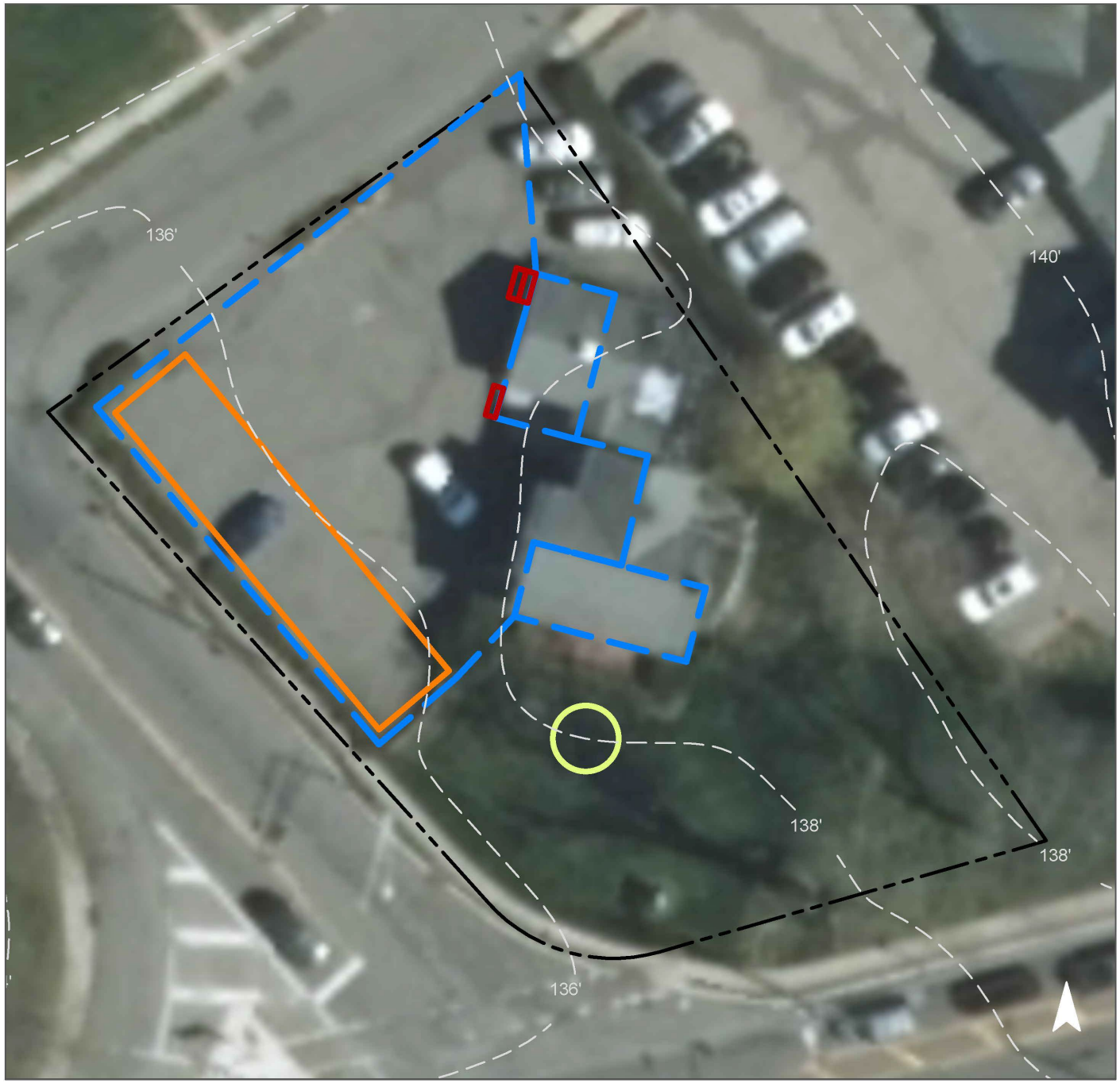
Block and Lot: Block 14, Lot 1

Parking spaces can be converted to porous pavement to capture and infiltrate stormwater runoff from the parking lot and roof. On the south side of the building a bioretention system can be installed to help capture, treat, and infiltrate stormwater from the building's roof. Downspout planter boxes can be installed on the parking lot side of the building to help capture additional stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
89	15,275	0.7	7.7	70.1	0.012	0.42

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.014	2	1,002	0.04	130	$650
Pervious pavement	0.172	29	12,649	0.48	1,460	$36,500
Planter boxes	n/a	2	n/a	n/a	3 (boxes)	$3,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Express Yourself Salon

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 15' 30'

65. FAR HILLS COUNTRY DAY SCHOOL

Subwatershed: Raritan River North Branch

Site Area: 803,550 sq. ft.

Address: 697 US-202
Far Hills, NJ 07931

Block and Lot: Block 89, Lot 10

Rain gardens can be installed in the turfgrass to capture, treat, and infiltrate rooftop and parking lot runoff. Downspout planter boxes can be installed in the courtyard to capture and filter stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
44	350,940	16.9	177.2	1,611.3	0.273	9.63

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.229	38	16,820	0.63	2,200	$11,000
Planter boxes	n/a	2	n/a	n/a	3 (boxes)	$3,000

GREEN INFRASTRUCTURE RECOMMENDATIONS

Far Hills Country Day School

- bioretention system
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

66. FAR HILLS FAIRGROUNDS

Subwatershed: Raritan River North Branch

Site Area: 851,544 sq. ft.

Address: 42 Peapack Road
Far Hills, NJ 07931

Block and Lot: Block 15, Lot 2

A section of parking spaces can be converted to porous pavement to capture and infiltrate runoff from the parking area. An area of turfgrass can be converted to a rain garden to capture, treat, and infiltrate stormwater runoff from the basketball courts on the property. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
25	210,233	10.1	106.2	965.3	0.164	5.77

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.068	11	5,012	0.19	655	$3,275
Pervious pavement	0.095	16	6,956	0.26	650	$16,250

GREEN INFRASTRUCTURE RECOMMENDATIONS

Far Hills Fairgrounds

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

67. FAR HILLS POLICE DEPARTMENT

Subwatershed: Raritan River North Branch

Site Area: 31,316 sq. ft.

Address: 6 Prospect Street
Far Hills, NJ 07931

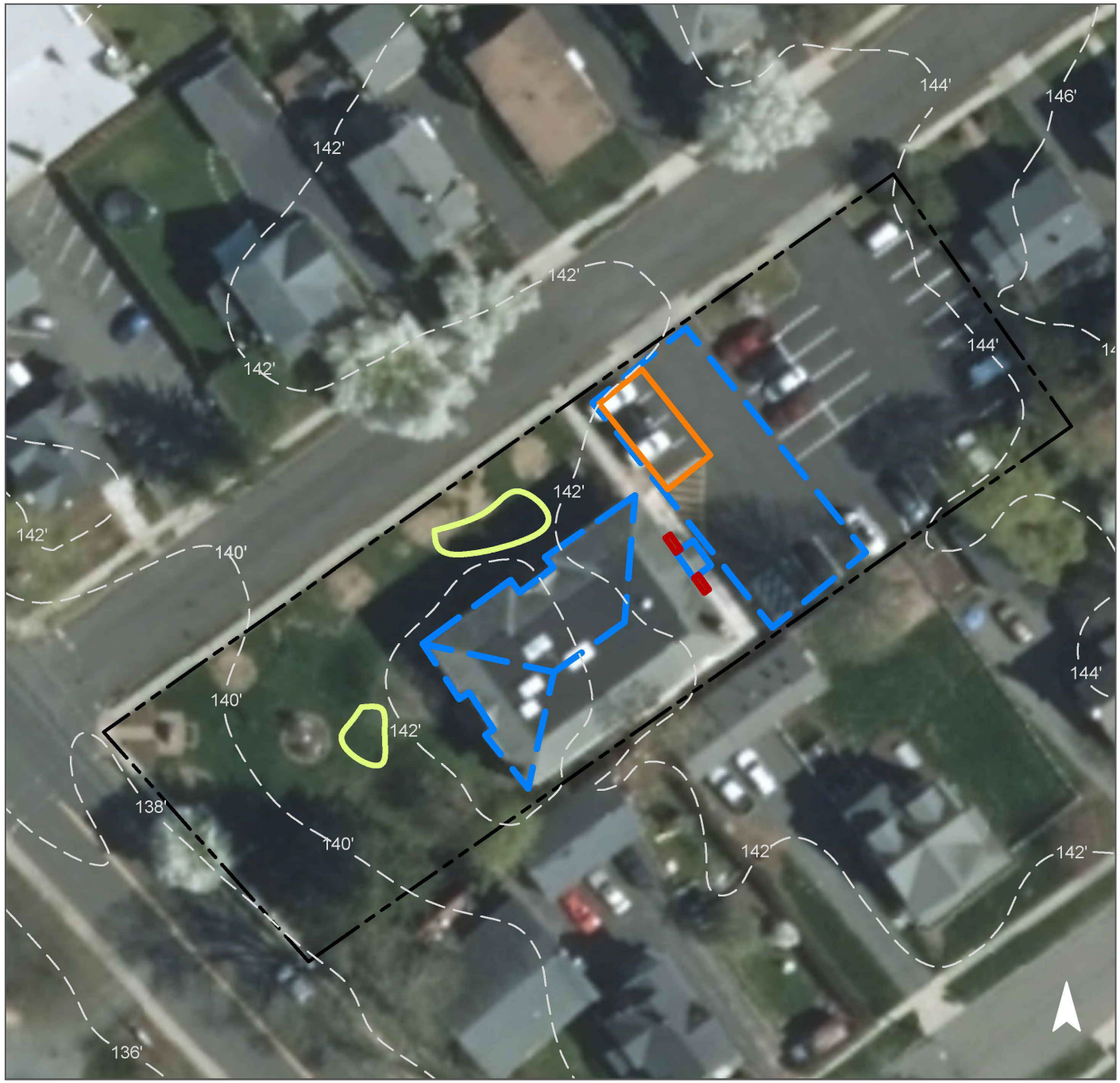
Block and Lot: Block 11, Lot 1

Turfgrass areas to the northwest and southwest of the building can be converted to a bioretention system to capture, treat, and infiltrate stormwater runoff from the roof. Pervious pavement can be installed in the southwest corner of the parking lot to capture and infiltrate stormwater. Downspout planter boxes can be installed at the parking lot entrance awning to help capture stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
80	24,973	1.2	12.6	114.7	0.019	0.68

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.068	11	5,012	0.19	655	$3,275
Pervious pavement	0.095	16	6,956	0.26	650	$16,250
Planter boxes	n/a	0	n/a	n/a	2 (boxes)	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Far Hills Police Department

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

68. FAR HILLS STATION

Subwatershed: Raritan River North Branch

Site Area: 1,394,613 sq. ft.

Address: 57 US Route 202
Far Hills, NJ 07931

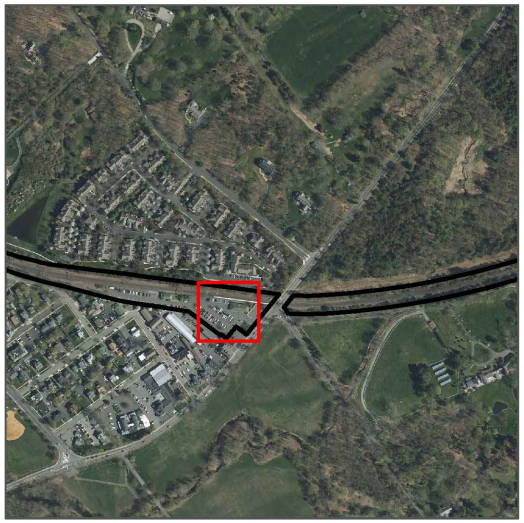
Block and Lot: Block 101, Lot 1

Downspouts on the north and south of the building can be disconnected and converted to planter boxes to capture stormwater runoff from the roof. Sections of parking spaces can be converted to porous pavement to capture and infiltrate stormwater runoff from the parking lot. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
7	92,792	4.5	46.9	426.0	0.072	2.54

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.607	102	6,956	0.26	4,730	$118,250
Planter boxes	n/a	5	n/a	n/a	6 (boxes)	$6,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Far Hills Station

- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

69. FIRST CHURCH OF CHRIST, SCIENTIST

Subwatershed: Raritan River North Branch

Site Area: 101,910 sq. ft.

Address: 11 Meeker Road
Bernardsville, NJ 07924

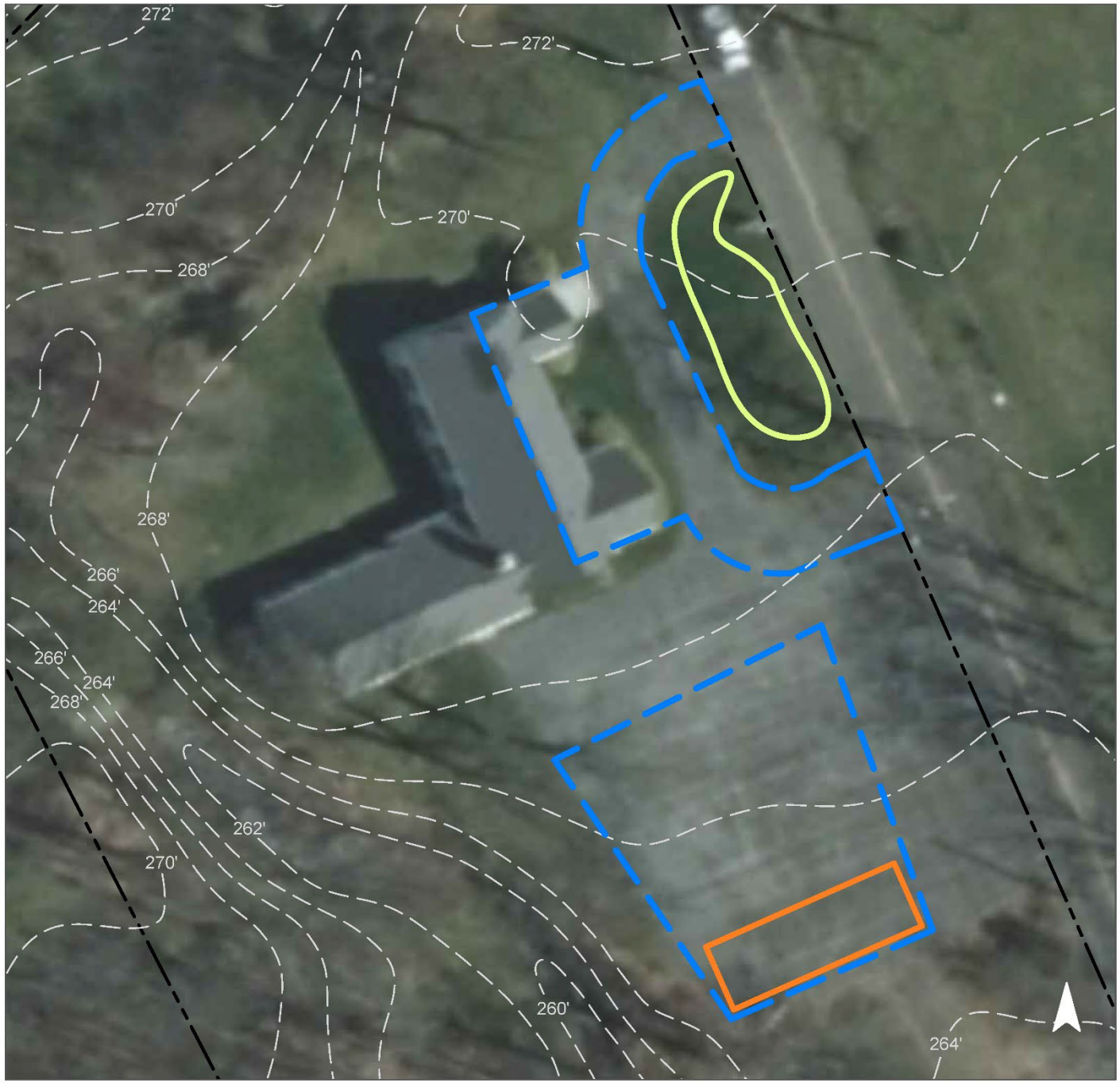
Block and Lot: Block 94, Lot 19

A rain garden can be installed in the turfgrass court to capture, treat, and infiltrate parking lot runoff. Pervious pavement can be installed in the parking spaces to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
29	29,507	1.4	14.9	135.5	0.023	0.81

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.133	22	9,790	0.37	1,280	$6,400
Pervious pavement	0.141	24	10,380	0.39	970	$24,250

GREEN INFRASTRUCTURE RECOMMENDATIONS



First Church of Christ, Scientist

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

70. GOOD SHEPHERD CHURCH

Subwatershed: Raritan River North Branch

Site Area: 372,570 sq. ft.

Address: 321 Mine Brook Road
Bernardsville, NJ 07924

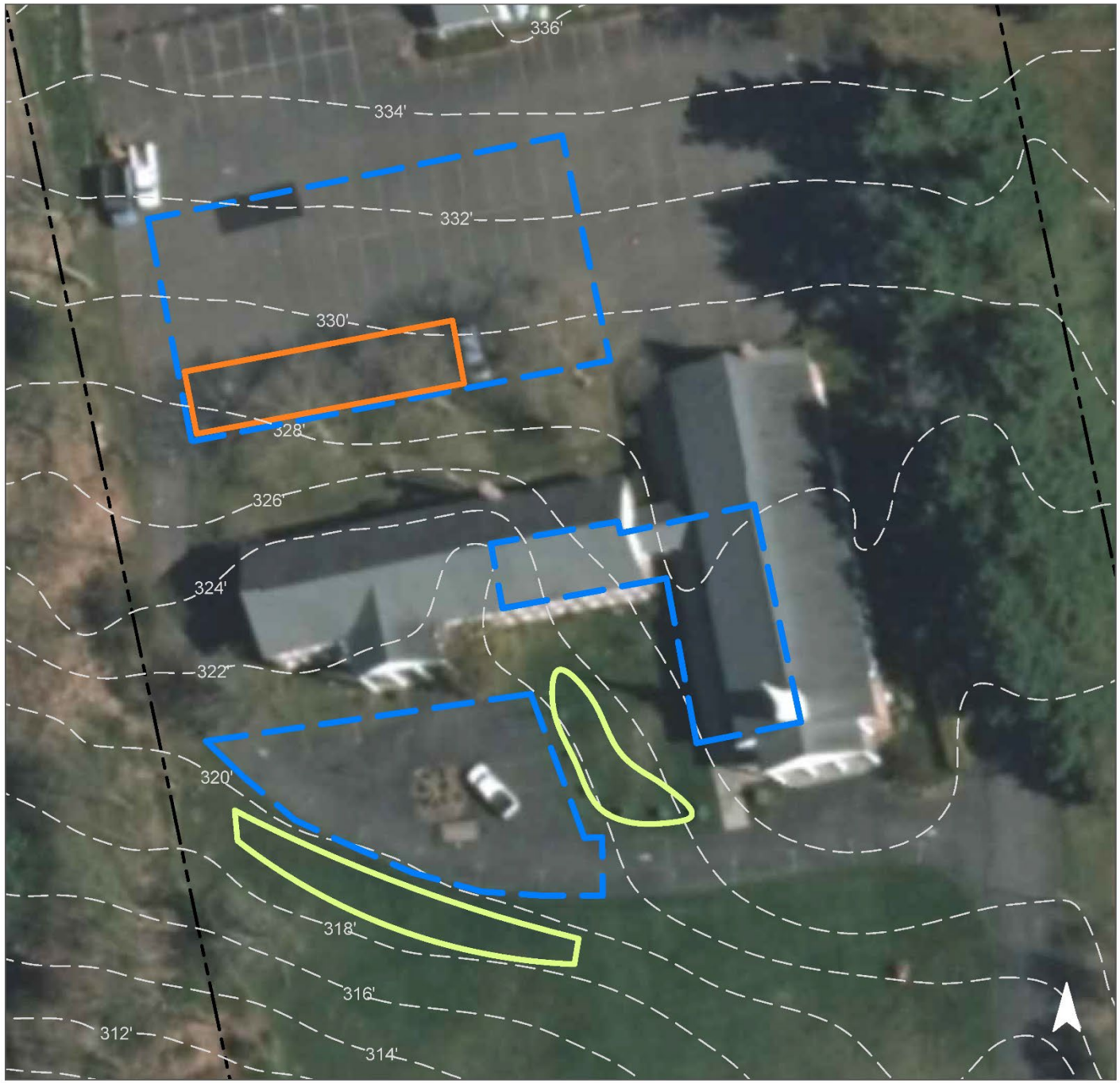
Block and Lot: Block 81, Lot 3

Rain gardens can be installed in the courtyard in the corner of the building and adjacent to the parking lot south of the building to capture, treat, and infiltrate rooftop and parking lot runoff. Pervious pavement can be installed in the small area of parking spaces in front and in the larger parking lot in the rear of the building to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
19	71,293	3.4	36.0	327.3	0.056	1.96

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.231	39	16,920	0.64	2,215	$11,075
Pervious pavement	0.270	45	19,810	0.74	1,850	$46,250

GREEN INFRASTRUCTURE RECOMMENDATIONS



Good Shepherd Church

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

71. GRACE CHAPEL

Subwatershed: Raritan River North Branch

HUC14 ID: 02030105060070

Site Area: 95,467 sq. ft.

Address: 375 Main Street
Bedminster, NJ 07921

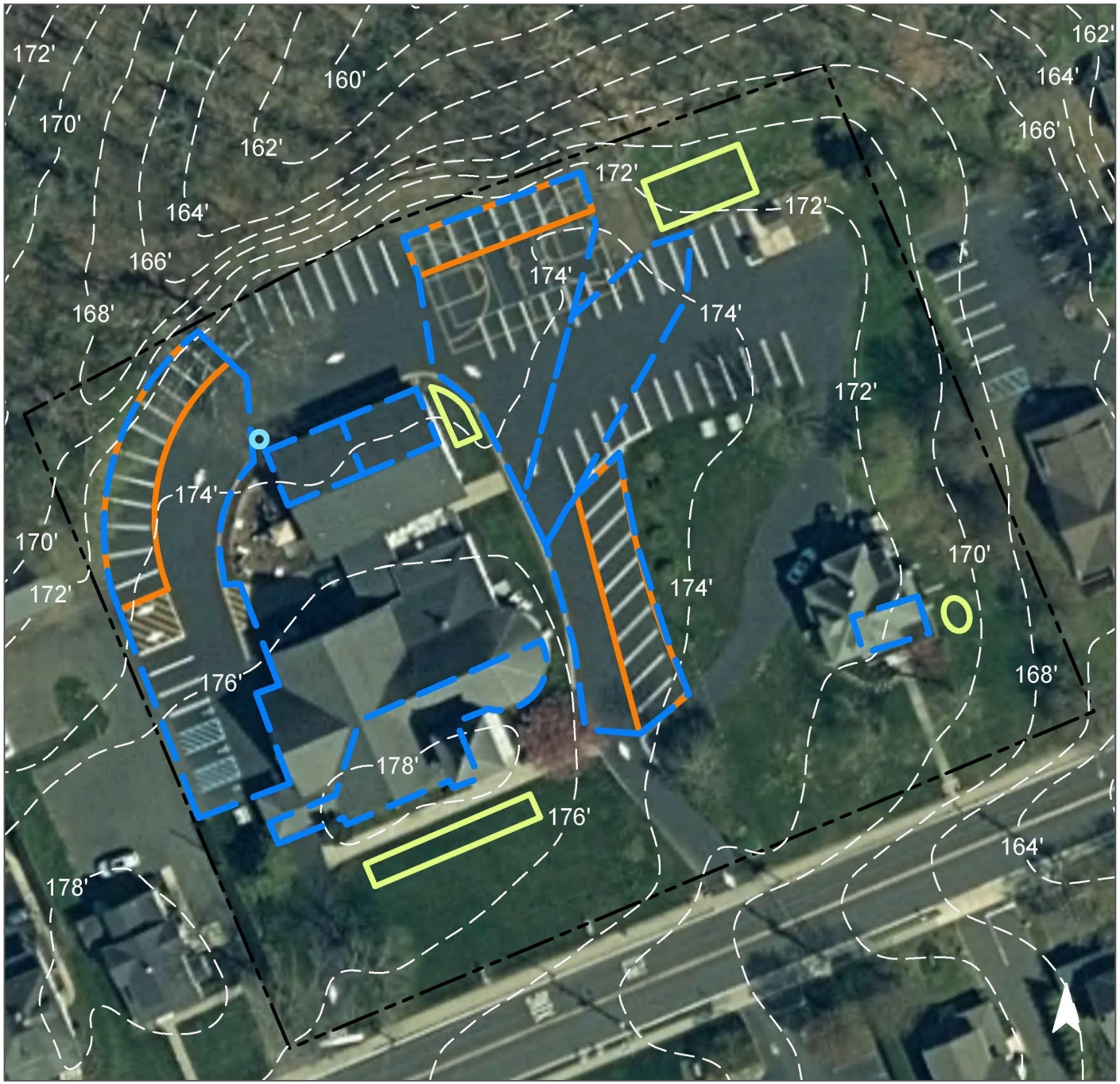
Block and Lot: Block 32, Lot 5

Multiple rain gardens can be installed in grass areas around the property to capture, treat, and infiltrate the stormwater runoff from the rooftops and driveway. This will require downspout disconnections. The existing northern, eastern, and western parking spaces can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the driveway and parking lot. A cistern can be installed to the north of the church building to divert and detain the stormwater runoff from the rooftop for later non-potable reuse such as watering a garden. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 49"
65	61,662	3.0	31.1	283.1	0.048	1.88

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	7,085	0.206	30	13,720	0.52	1,770	$17,700
Pervious pavement	16,675	0.484	72	32,290	1.21	5,140	$128,500
Rainwater harvesting	735	0.021	4	600	N/A	600 (gal)	$1,800

GREEN INFRASTRUCTURE RECOMMENDATIONS



Grace Chapel

- bioretention system
- pervious pavement
- rainwater harvesting
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 30' 60'

72. JOSEPH D'APOLITO & SON

Subwatershed: Raritan River North Branch

Site Area: 15,641 sq. ft.

Address: 16 Peapack Road
Far Hills, NJ 07931

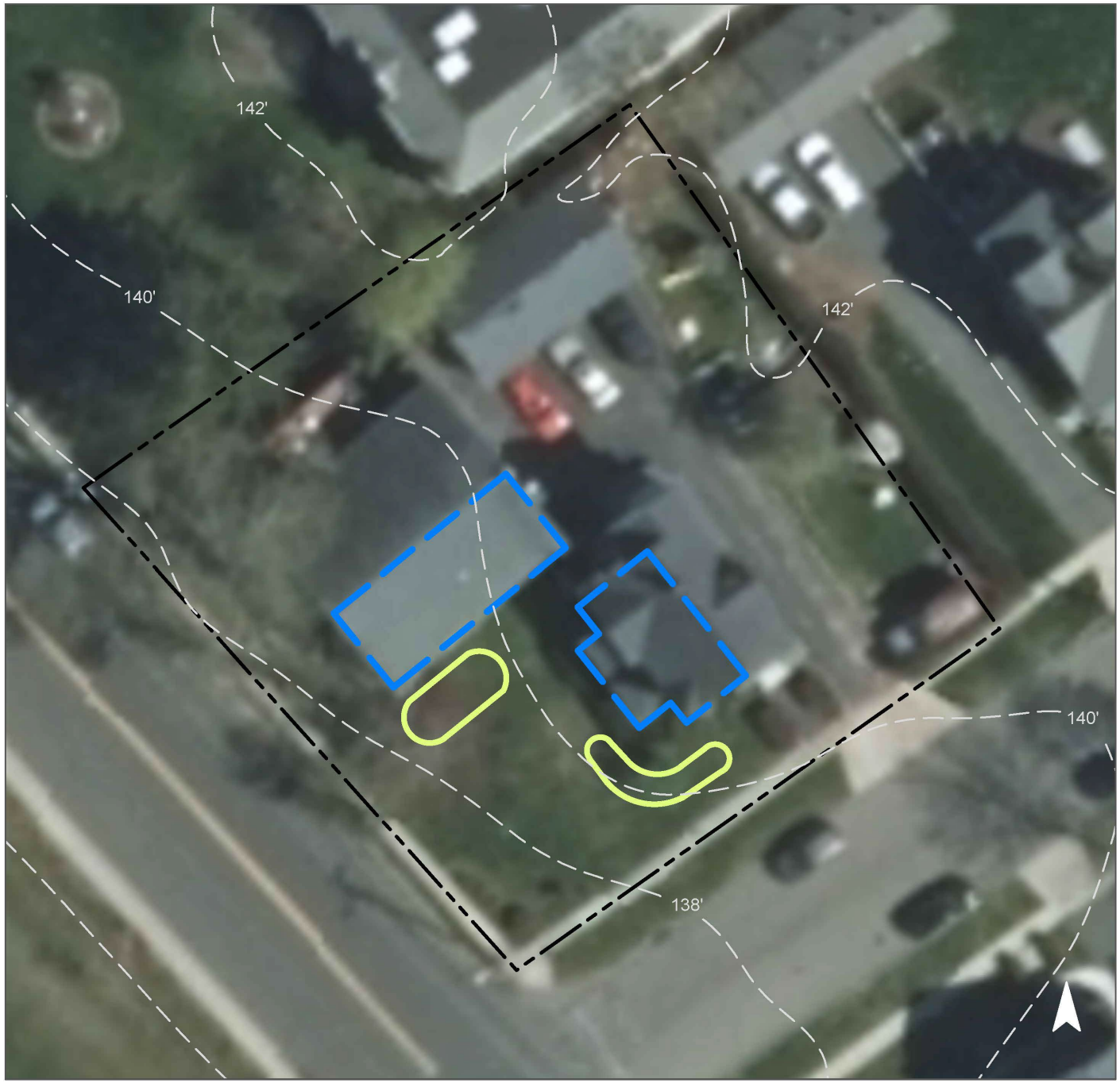
Block and Lot: Block 11, Lot 2

Two bioretention systems can be installed in the turfgrass area to the southeast of the building to capture, treat, and infiltrate stormwater runoff from the roof. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
74	11,559	0.6	5.8	53.1	0.009	0.32

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.038	6	2,775	0.10	380	$1,900

GREEN INFRASTRUCTURE RECOMMENDATIONS



Joseph D'Apolito & Son

- bioretention system
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 15' 30'

73. LIVING PLATE

Subwatershed: Raritan River North Branch

Site Area: 5,674 sq. ft.

Address: 22 Peapack Road
Far Hills, NJ 07931

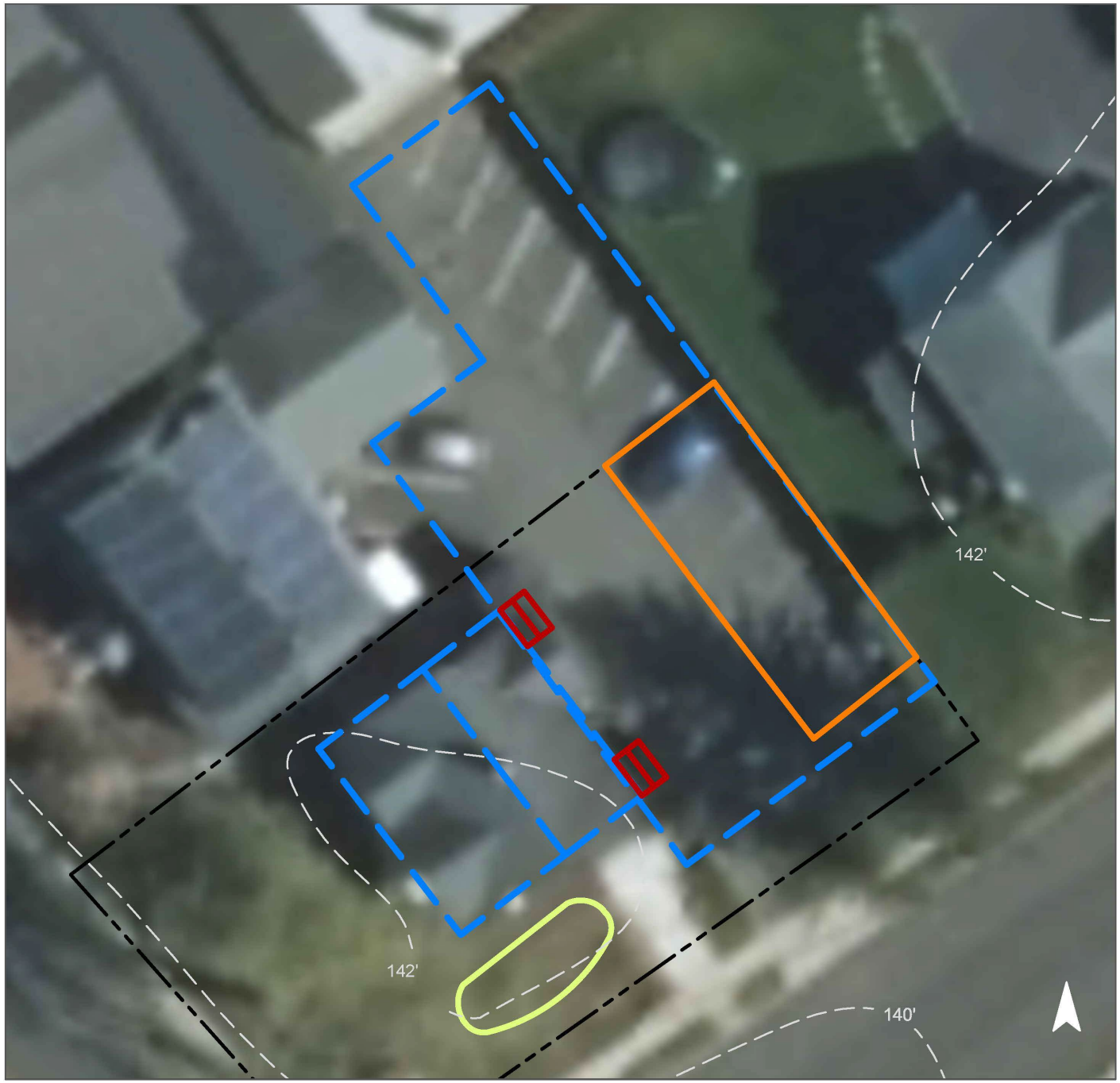
Block and Lot: Block 10, Lot 3

The turfgrass to the southeast of the building can be converted to a bioretention system to capture, treat, and infiltrate stormwater runoff from the roof. The western edge of the parking lot can be converted to pervious pavement to help capture and infiltrate stormwater runoff. On the western side of the building downspout planter boxes can be installed to also help with capturing stormwater runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
80	4,525	0.2	2.3	20.8	0.004	0.12

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.019	3	1,369	0.05	180	$900
Pervious pavement	0.072	12	5,296	0.20	790	$19,750
Planter boxes	n/a	1	n/a	n/a	4 (boxes)	$4,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Living Plate

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 10' 20'

74. M&M PERROTTI'S PREPARED FOODS

Subwatershed: Raritan River North Branch

Site Area: 58,525 sq. ft.

Address: 27 US Route 202
Far Hills, NJ 07931

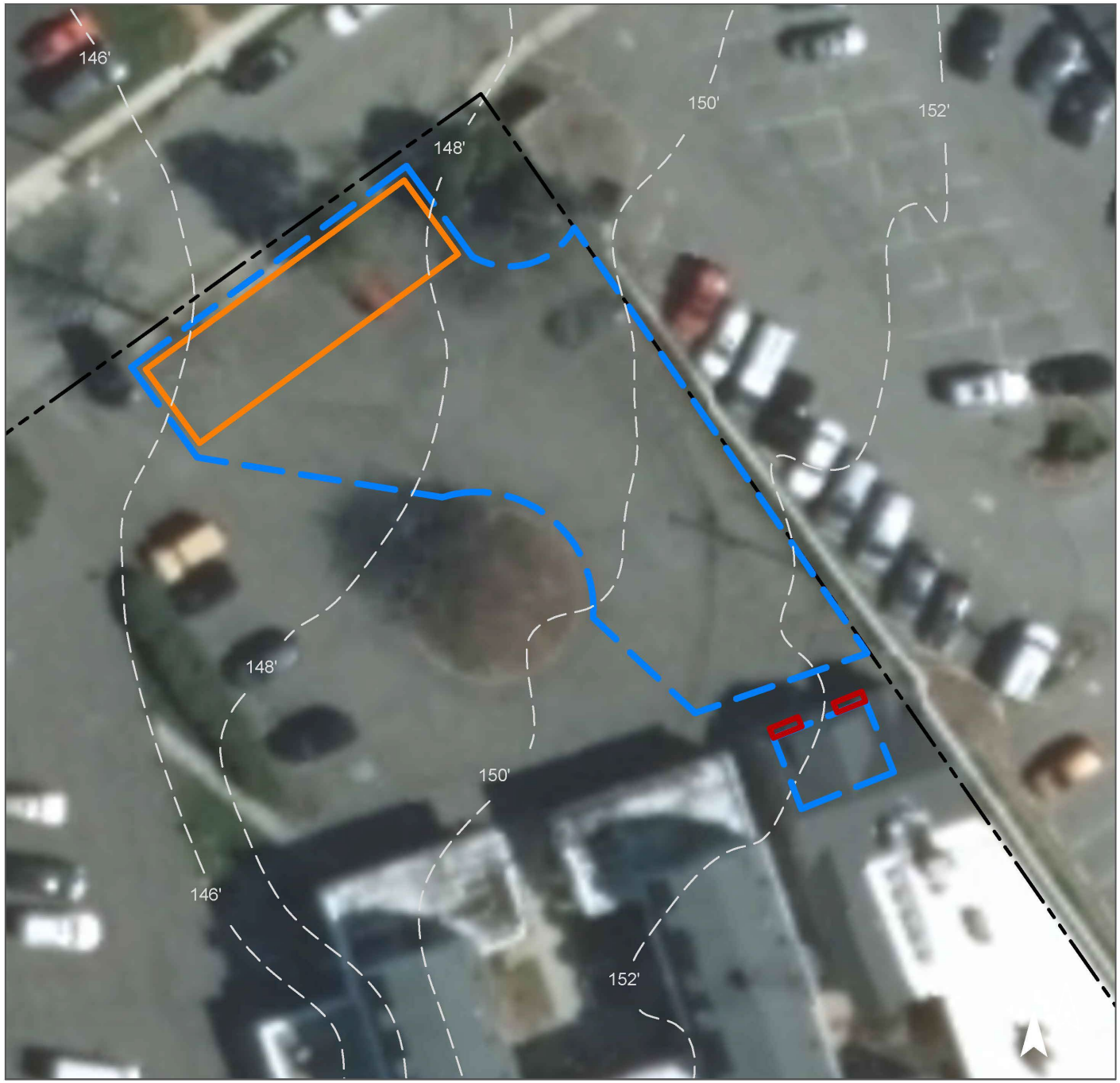
Block and Lot: Block 14, Lot 3

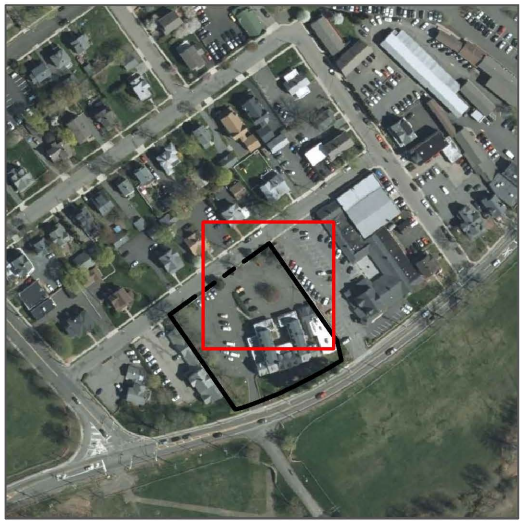
Parking spaces in the parking lot to the north of the building can be converted to porous pavement to capture and infiltrate stormwater runoff from the parking lot. On the north side of the building downspout planter boxes can be installed to help capture stormwater runoff from the building's roof. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
89	52,280	2.5	26.4	240.0	0.041	1.43

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.165	28	12,133	0.46	1,135	$28,375
Planter boxes	n/a	1	n/a	n/a	2 (boxes)	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS





M&M Perrotti's Prepared Foods

- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 15' 30'

75. PEAPACK-GLADSTONE BANK

Subwatershed: Raritan River North Branch

Site Area: 12,932 sq. ft.

Address: 26 Dumont Road
Far Hills, NJ 07931

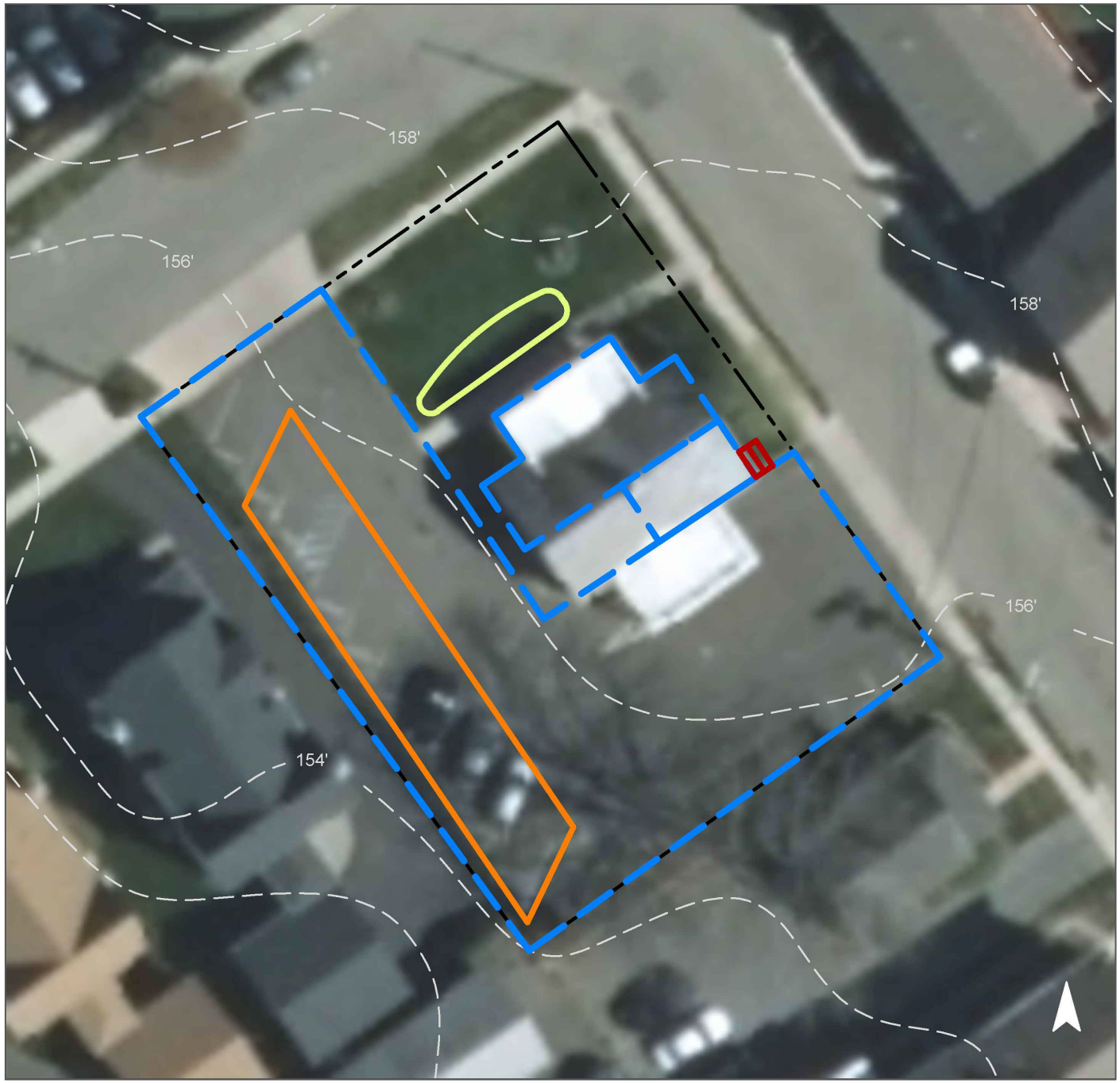
Block and Lot: Block 13, Lot 12

The turfgrass area to the northwest of the building can be converted to a bioretention system to capture, treat, and infiltrate stormwater runoff from the roof. The western area of the parking lot can be converted to pervious pavement to help capture and infiltrate stormwater runoff from the lot. A downspout planter box can be placed on the eastern side of the building to help capture stormwater runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
87	11,253	0.5	5.7	51.7	0.009	0.31

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.025	4	1,855	0.07	245	$1,225
Pervious pavement	0.219	37	16,082	0.60	1,785	$44,625
Planter boxes	n/a	1	n/a	n/a	2 (boxes)	$2,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Peapack-Gladstone Bank

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 15' 30'

76. SACRED HEART CHAPEL

Subwatershed: Raritan River North Branch

Site Area: 15,409 sq. ft.

Address: 47 Bernards Avenue
Bernardsville, NJ 07924

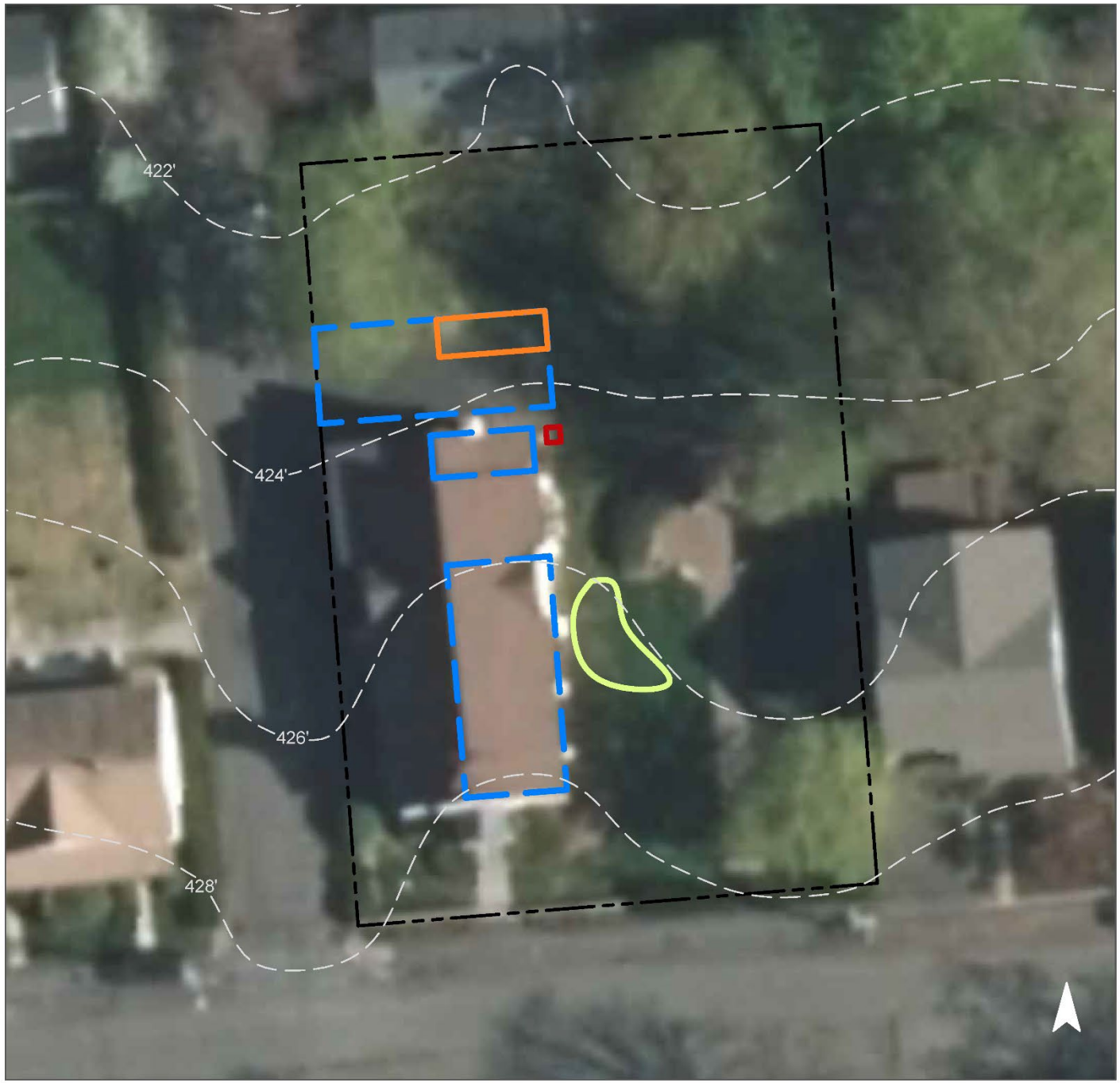
Block and Lot: Block 105, Lots 1,12

A rain garden can be installed on the eastern side of the church to capture, treat, and infiltrate rooftop runoff. A downspout planter box can be installed at the northeast corner of the church to capture and filter stormwater. Pervious pavement can be installed in the parking spaces north of the building to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
50	7,656	0.4	3.9	35.2	0.006	0.21

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.024	4	1,770	0.07	230	$1,150
Pervious pavement	0.022	4	1,650	0.06	160	$4,000
Planter box	n/a	1	n/a	n/a	1 (box)	$1,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Sacred Heart Chapel

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 15' 30'

77. SAINT BERNARD'S CHURCH

Subwatershed: Raritan River North Branch

Site Area: 158,487 sq. ft.

Address: 88 Claremont Road
Bernardsville, NJ 07924

Block and Lot: Block 68, Lot 9

A rain garden can be installed along the southeast side of the church and at the bottom of a hill on the property to capture, treat, and infiltrate parking lot and rooftop runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
50	78,635	3.8	39.7	361.0	0.061	2.16

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.056	9	4,130	0.16	540	$2,700

GREEN INFRASTRUCTURE RECOMMENDATIONS

Saint Bernard's Church

- bioretention system
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

78. SCHOOL OF SAINT ELIZABETH

Subwatershed: Raritan River North Branch

Site Area: 263,055 sq. ft.

Address: 30 Seney Drive
Bernardsville, NJ 07924

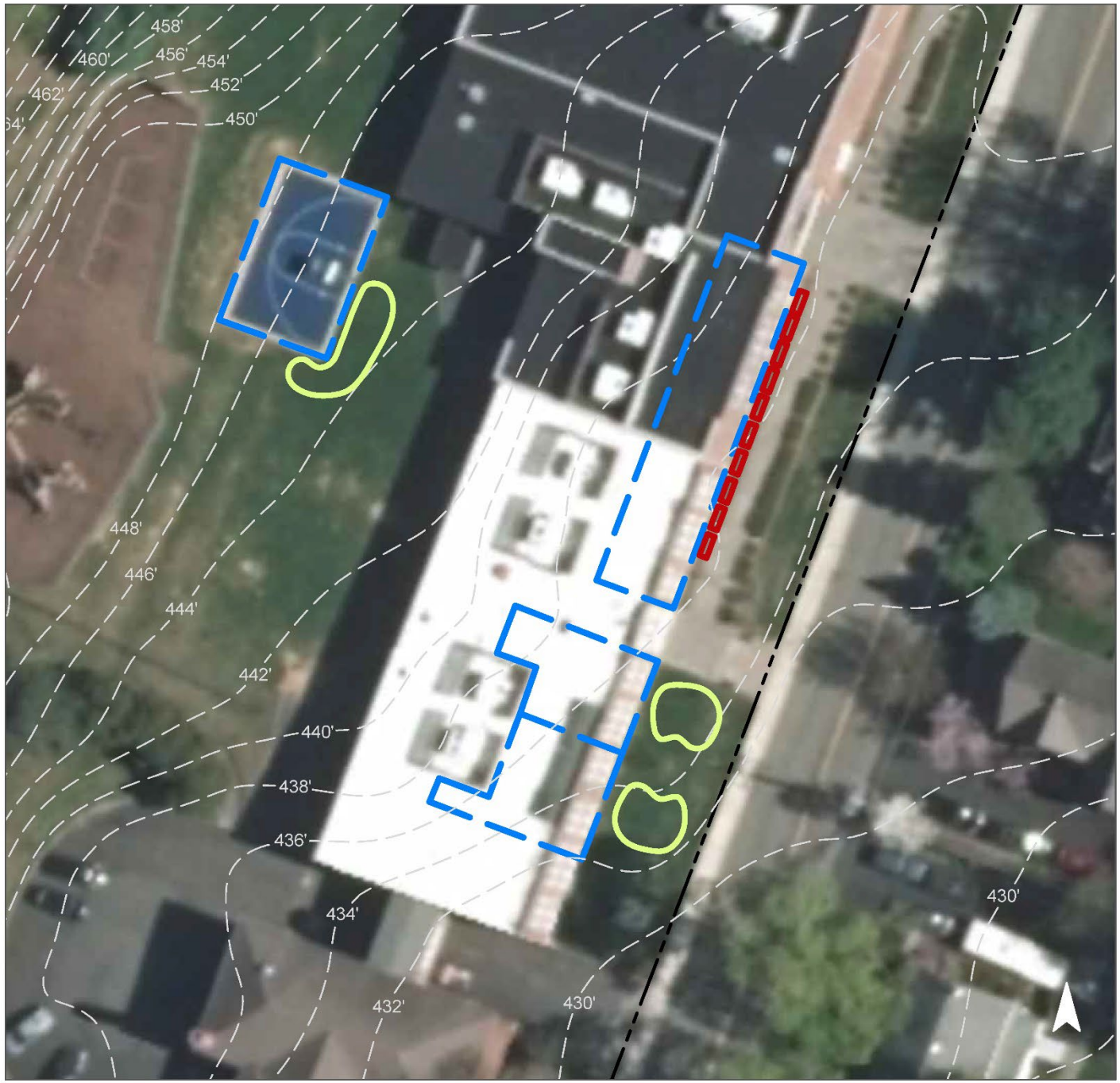
Block and Lot: Block 39, Lot 6

Rain gardens can be installed on either side of the red tree shown to the southeast of the school and along the southeast corner of the tennis court to capture, treat, and infiltrate rooftop and pavement runoff. Downspout planter boxes can be installed to the right of the main entrance to capture and filter stormwater. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
42	110,897	5.3	56.0	509.2	0.086	3.04

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.083	14	6,120	0.23	815	$4,075
Planter boxes	n/a	8	n/a	n/a	10 (boxes)	$10,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



School of Saint Elizabeth

- bioretention system
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

79. TURPIN REAL ESTATE

Subwatershed: Raritan River North Branch

Site Area: 20,658 sq. ft.

Address: 21 US Route 202
Far Hills, NJ 07931

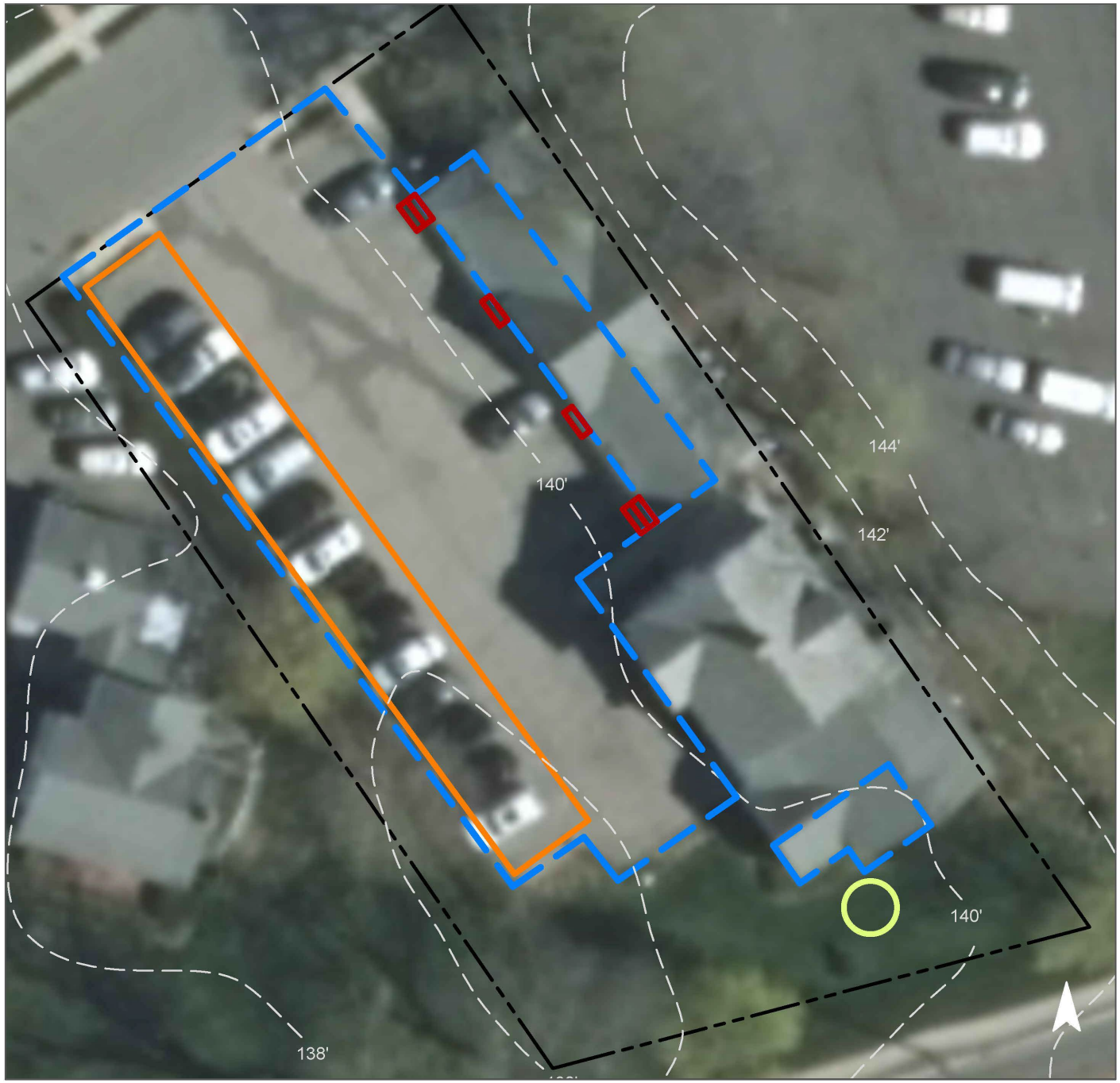
Block and Lot: Block 14, Lot 2

The turfgrass to the southeast of the building can be converted to a bioretention system to help capture, treat, and infiltrate stormwater runoff from the building's roof. Parking spaces in the western portion of the parking lot can be converted to pervious pavement to capture and infiltrate stormwater runoff from the lot. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
89	18,453	0.9	9.3	84.7	0.014	0.51

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.009	1	651	0.02	85	$425
Pervious pavement	0.240	40	17,645	0.66	2,570	$64,250
Planter boxes	n/a	4	n/a	n/a	6 (boxes)	$6,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Turpin Real Estate

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 15' 30'

80. WEALTH PLANNING ADVISORS

Subwatershed: Raritan River North Branch

Site Area: 6,576 sq. ft.

Address: 37 Dumont Road
Far Hills, NJ 07931

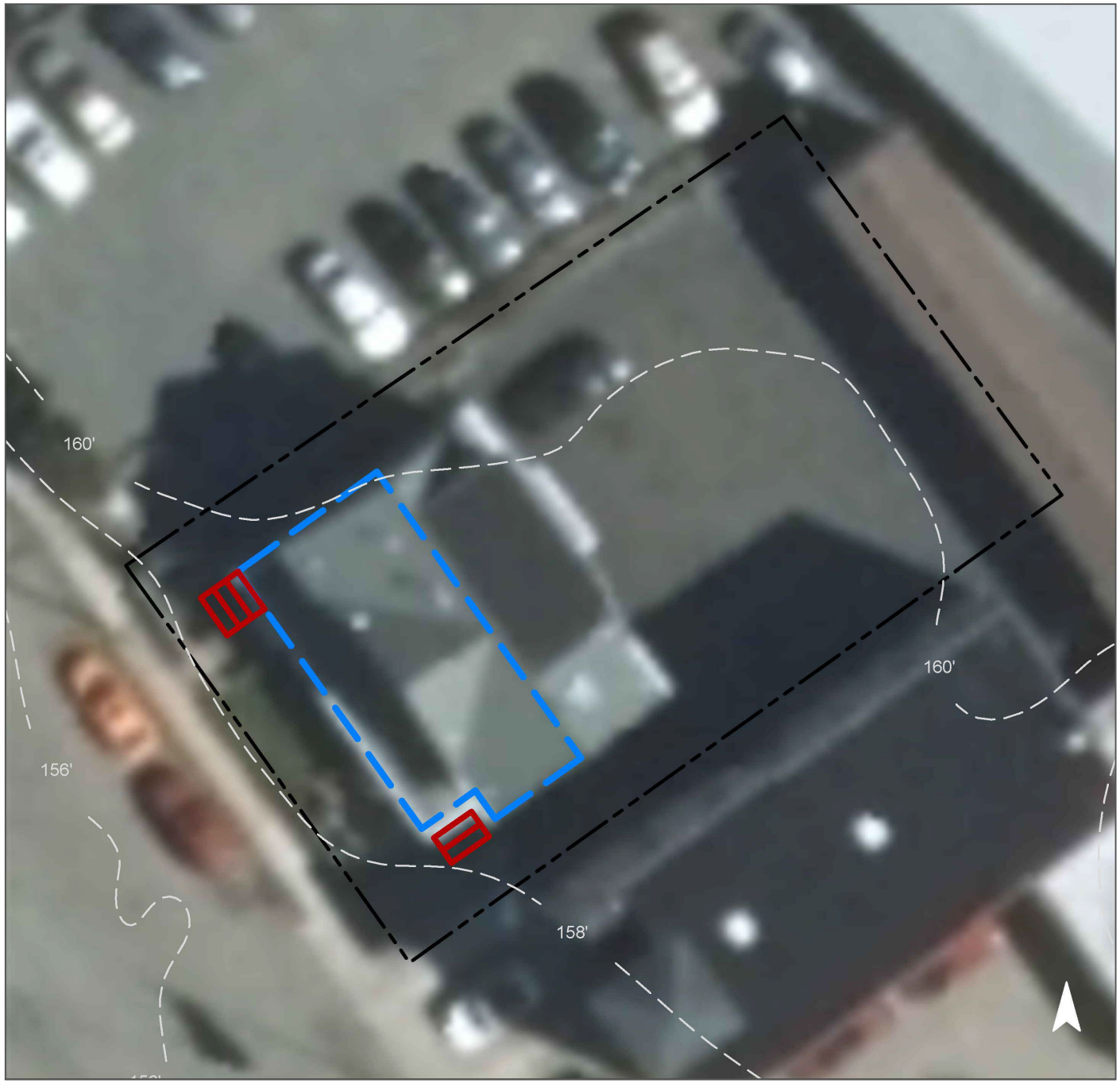
Block and Lot: Block 15, Lot 2

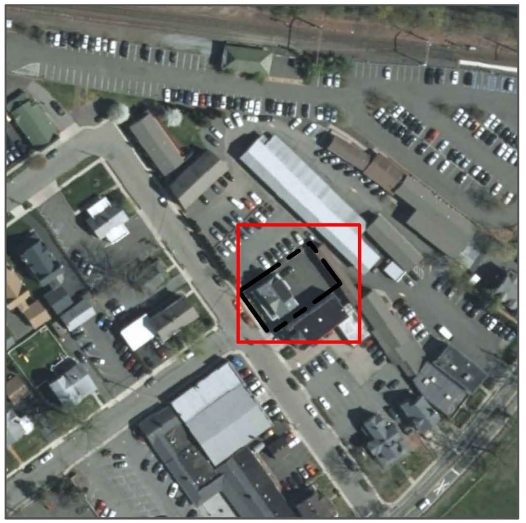
Downspouts on the northwest and southeast corners of the building can be disconnected and converted to planter boxes to capture stormwater runoff from the roof. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
89	5,874	0.3	3.0	27.0	0.005	0.16

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Planter boxes	n/a	2	n/a	n/a	5 (boxes)	$5,000

GREEN INFRASTRUCTURE RECOMMENDATIONS





Wealth Planning Advisors

- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 10' 20'

81. RESURGENT CHURCH

Subwatershed: Middle Brook (Raritan River North Branch)

HUC14 ID: 02030105060080

Site Area: 645,494 sq. ft.

Address: 3545 US-206
Far Hills, NJ 07931

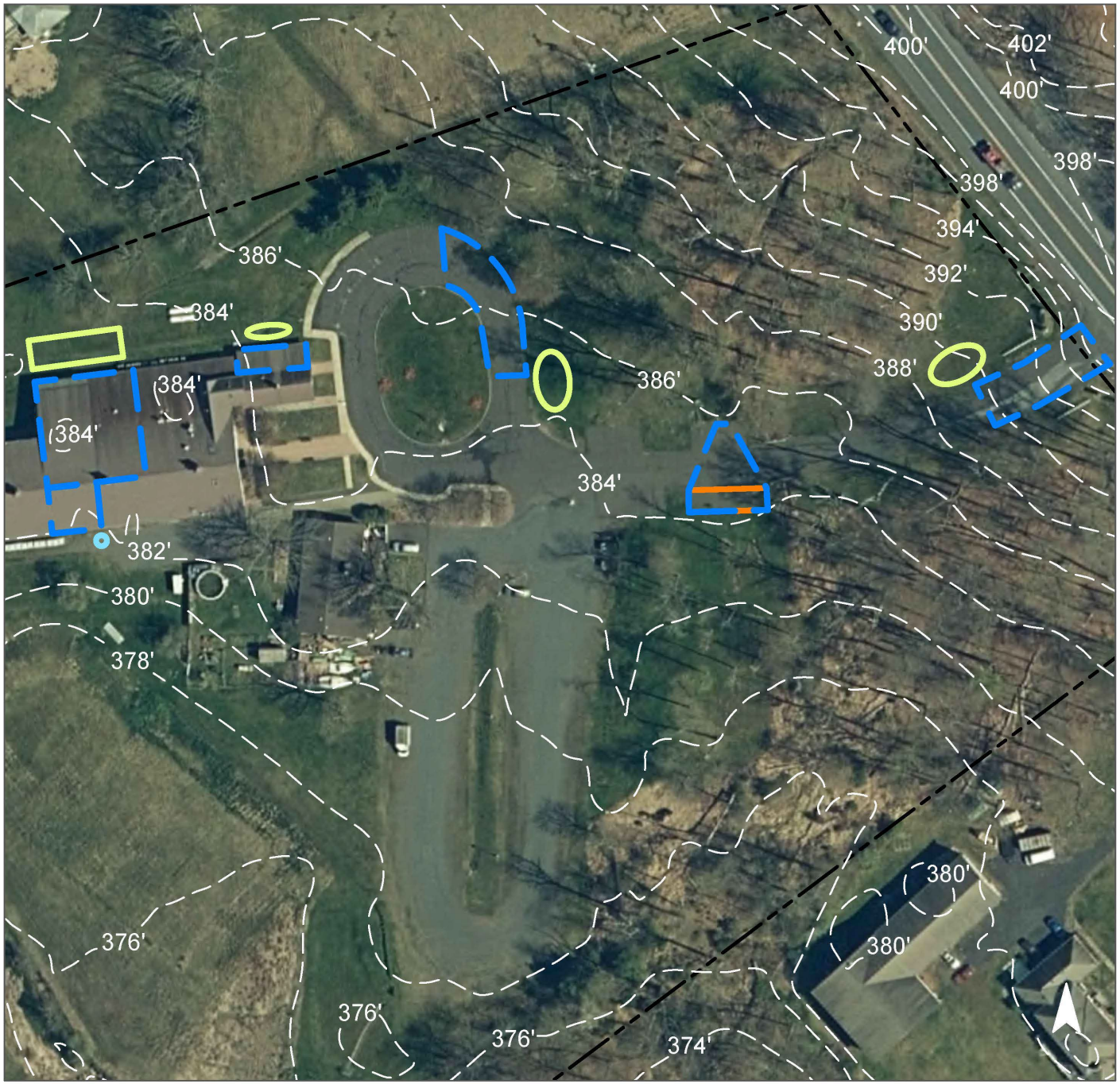
Block and Lot: Block 5, Lot 1.04

Multiple rain gardens can be installed in grass areas around the property to capture, treat, and infiltrate the stormwater runoff from the rooftops and driveway. This may require downspout disconnections, curb cuts, and trench drains. The existing eastern parking spaces can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the driveway. A cistern can be installed to the south of the church building to divert and detain the stormwater runoff from the rooftop for later non-potable reuse such as watering a garden or washing a vehicle. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 49"
15	94,649	4.6	47.8	434.6	0.074	2.89

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	10,365	0.301	46	20,080	0.75	2,595	$25,950
Pervious pavement	2,030	0.059	10	3,930	0.15	740	$18,500
Rainwater harvesting	975	0.028	4	800	N/A	800 (gal)	$2,400

GREEN INFRASTRUCTURE RECOMMENDATIONS



Resurgent Church

- bioretention system
- pervious pavement
- rainwater harvesting
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 50' 100'

82. BEDMINSTER PUBLIC SCHOOL

Subwatershed: Raritan River North Branch

Site Area: 1,345,130 sq. ft.

Address: 234 Somerville Road
Bedminster, NJ 07921

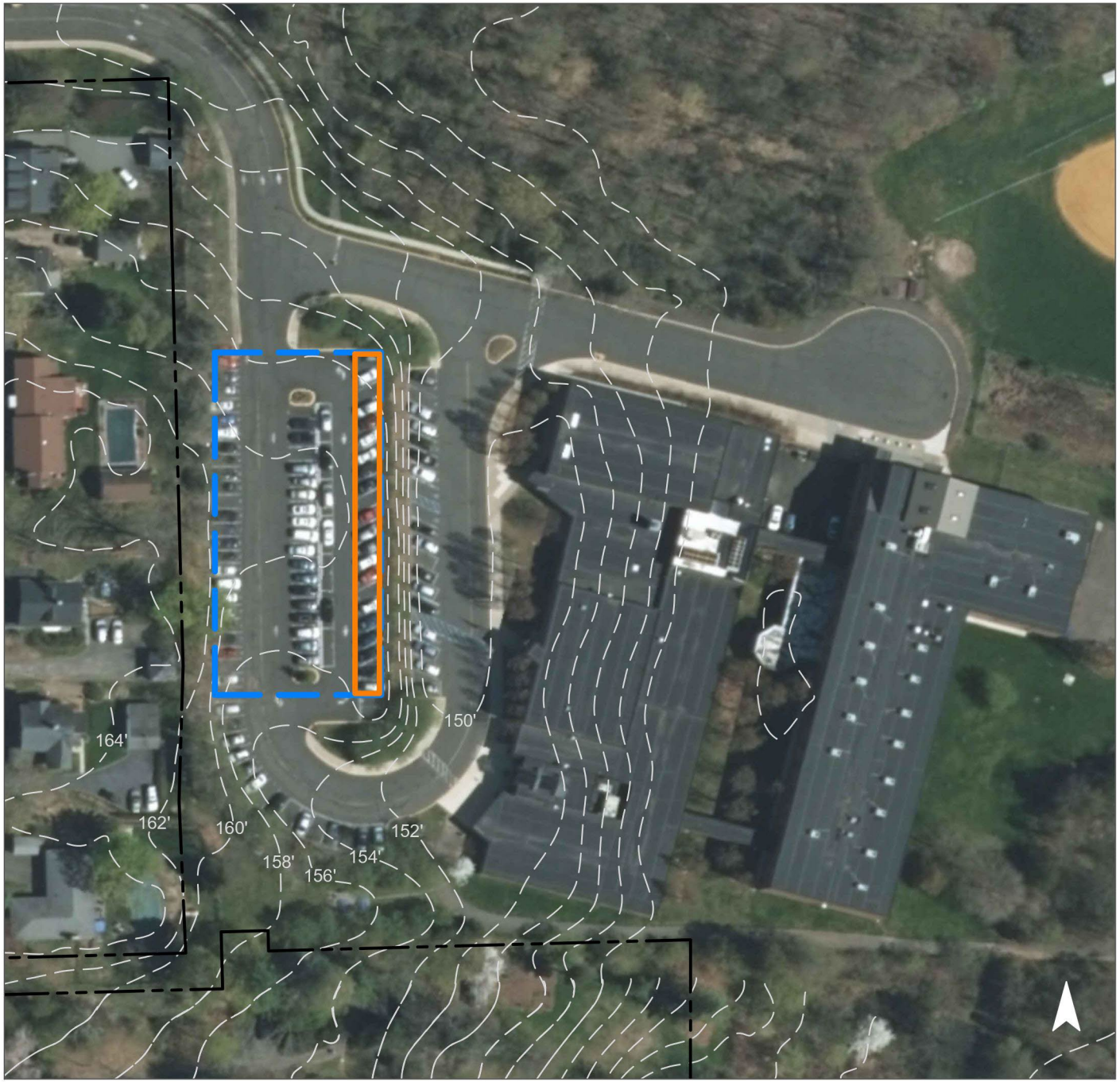
Block and Lot: Block 36, Lot 1

Pervious pavement can be installed in the front parking lot of the building to capture storm water runoff from the parking lot. A preliminary soil assessment suggests that the soil is suitable for green infrastructure implementations.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
19	251,990	12.1	127.3	1,157.0	0.196	6.91

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.636	107	46,690	2.06	4,300	$107,500

GREEN INFRASTRUCTURE RECOMMENDATIONS



Bedminster Public School

- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

83. BEDMINSTER TOWNSHIP MUNICIPAL COURT

Subwatershed: Raritan River North Branch

Site Area: 802,900 sq. ft.

Address: 55 Miller Lane
Bedminster, NJ 07921

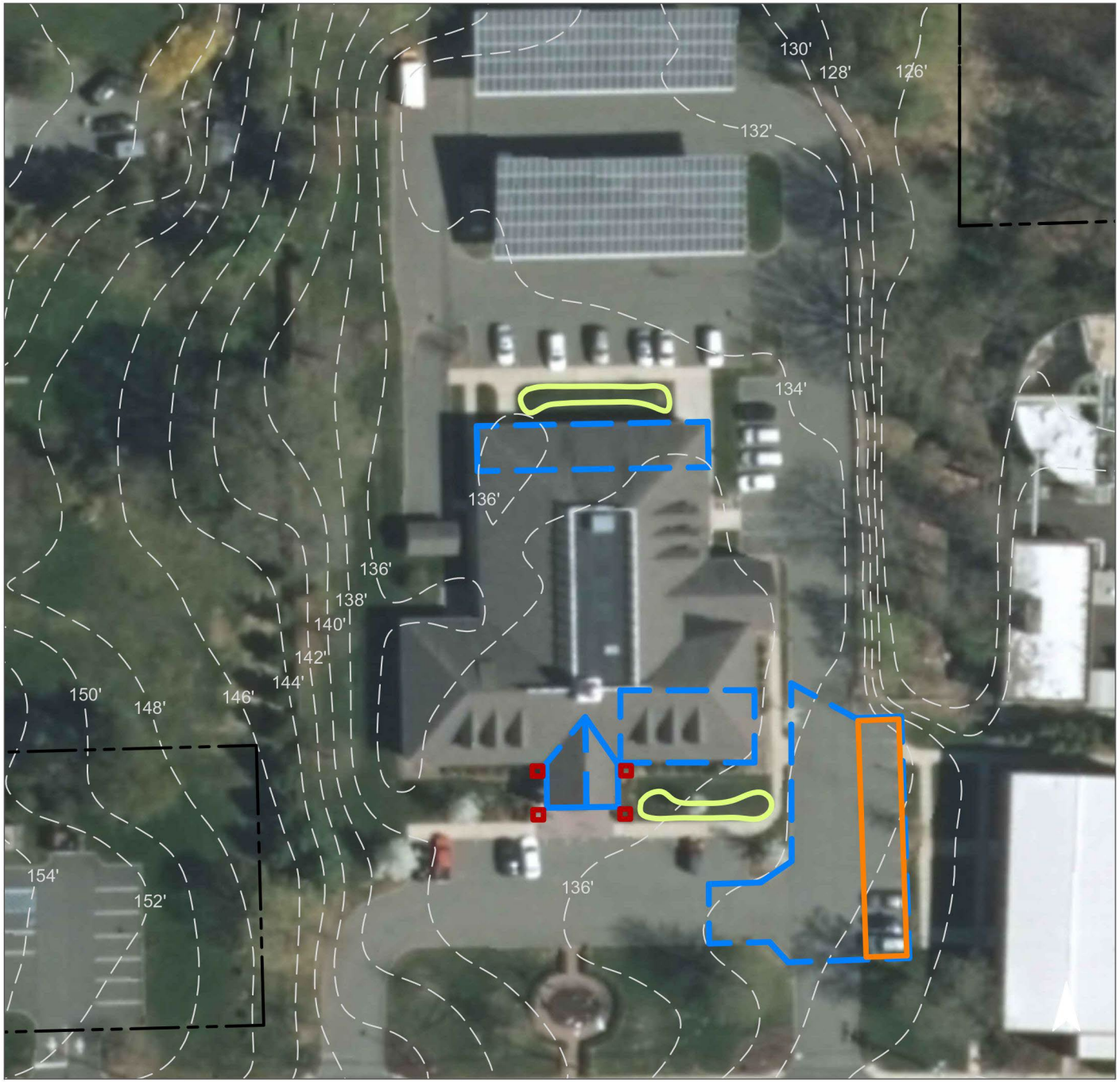
Block and Lot: Block 36, Lots 10,11,12,14

Bioretention systems can be installed to capture, treat, and infiltrate rooftop runoff on the north and south of the building. Pervious pavement can be installed in the southeast corner of the parking lot to capture and infiltrate stormwater. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
25	203,380	9.8	102.7	933.8	0.158	5.58

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.081	14	5,955	0.26	795	$3,975
Pervious pavement	0.138	23	10,115	0.45	1,710	$42,750
Planter boxes	n/a	3	n/a	n/a	4 (boxes)	$4,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Bedminster Municipal Court

- bioretention system
- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 30' 60'

84. BEDMINSTER USPS

Subwatershed: Raritan River North Branch

Site Area: 29,710 sq. ft.

Address: 251 Somerville Road
Bedminster, NJ 07921

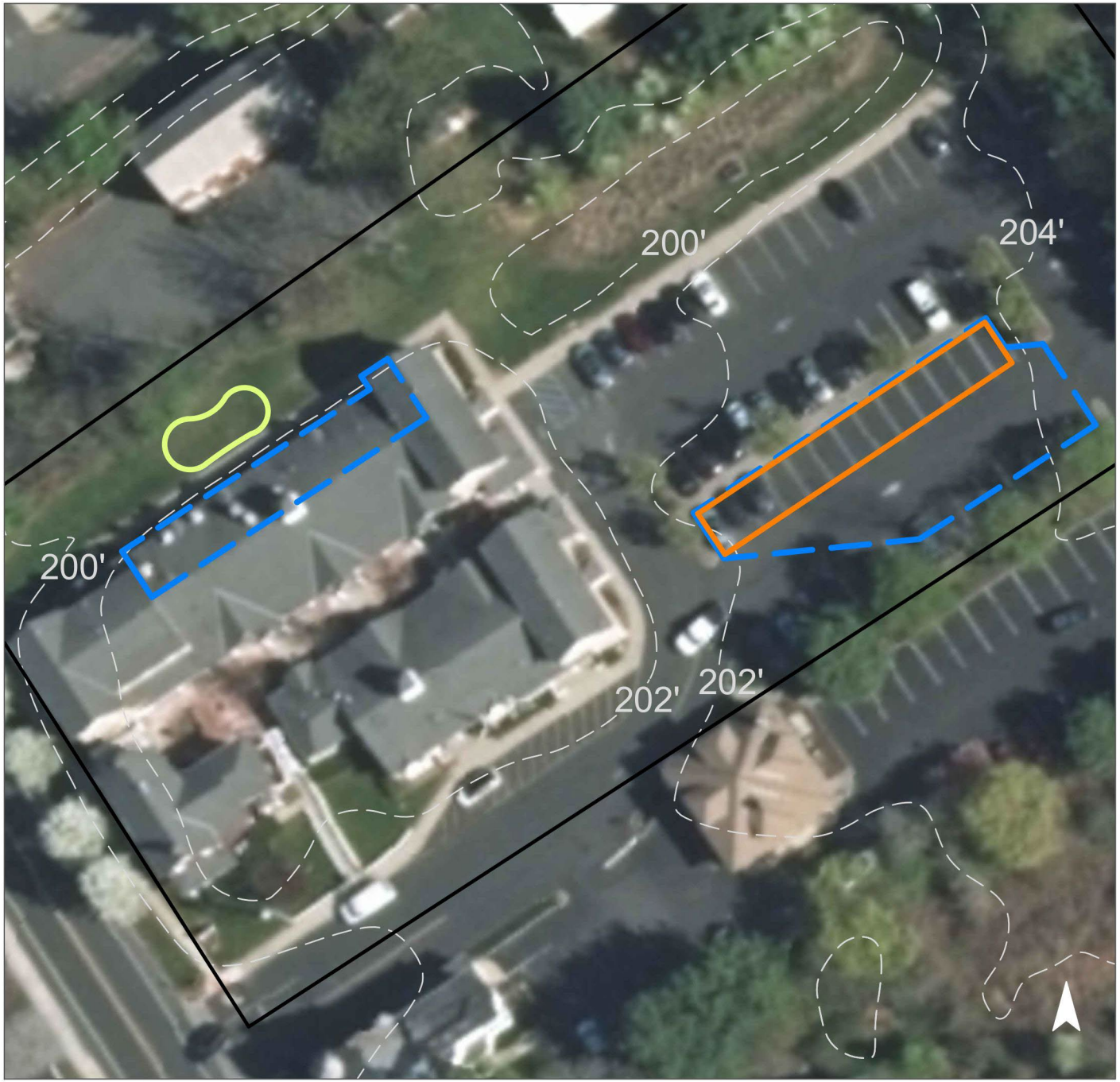
Block and Lot: Block 33, Lot 11

A rain garden can be installed east of the building to capture runoff from the building's roof. Additionally, pervious pavement can be installed in the parking lot to capture stormwater before it reaches the drain. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
83	24,750	1.2	12.5	113.6	0.019	0.68

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.052	9	3,785	0.17	500	$1,875
Pervious pavement	0.132	22	9,709	0.43	2,070	$51,750

GREEN INFRASTRUCTURE RECOMMENDATIONS



Bedminster USPS

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

85. BURNT MILLS PARK

Subwatershed: Raritan River North Branch

Site Area: 483,140 sq. ft.

Address: 1850 Burnt Mills Road
Bedminster, NJ 07921

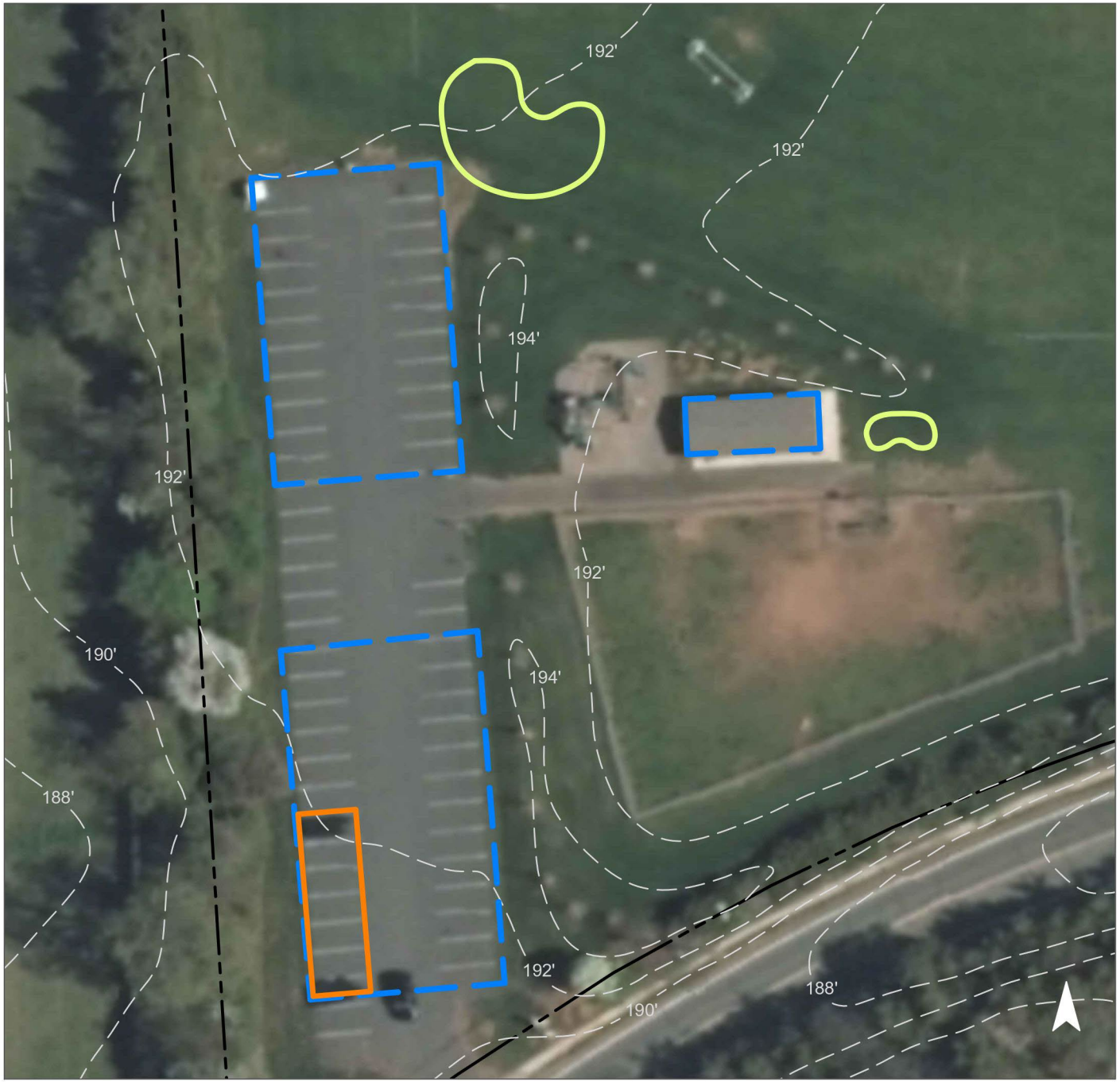
Block and Lot: Block 54, Lot 5

Bioretention systems can be installed to capture, treat, and infiltrate parking lot and rooftop runoff. Potential locations are in the northeast corner of the parking lot and the easternmost side of the structure shown in the above right image. Pervious pavement can be installed in the southwest corner of the parking lot to manage pavement runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
10	47,790	2.3	24.1	219.4	0.037	1.31

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.183	31	13,405	0.59	1,805	$9,025
Pervious pavement	0.193	32	14,175	0.62	1,300	$32,500

GREEN INFRASTRUCTURE RECOMMENDATIONS



Burnt Mills Park

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

86. CLARENCE DILLON PUBLIC LIBRARY

Subwatershed: Raritan River North Branch

Site Area: 70,850 sq. ft.

Address: 2336 Lamington Road
Bedminster, NJ 07921

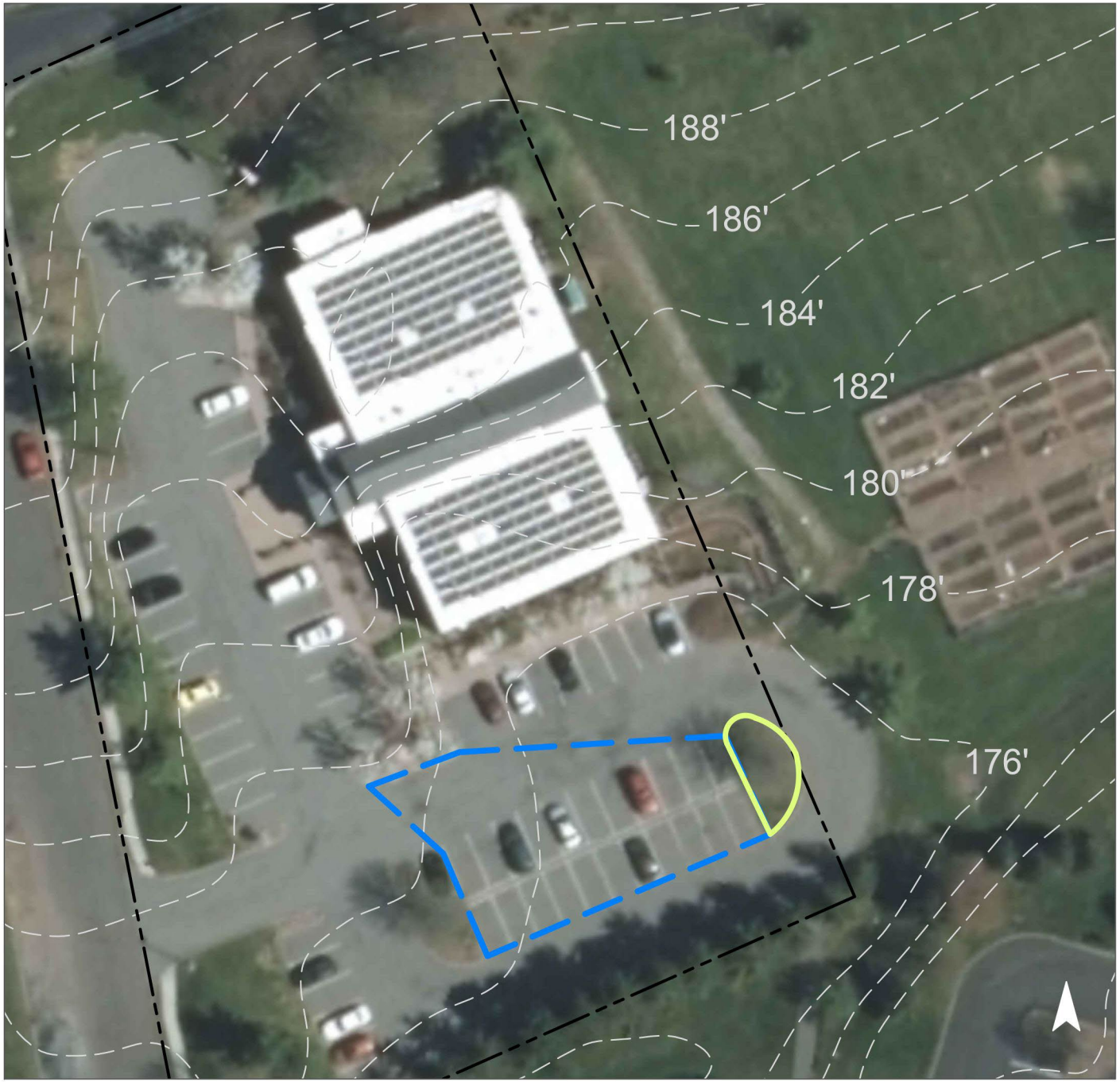
Block and Lot: Block 41, Lot 16.01

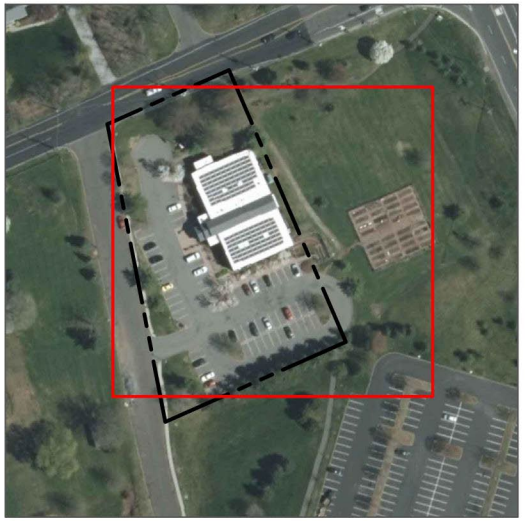
A rain garden can be installed on the eastern island in the parking lot to capture stormwater runoff from the impervious surface. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
72	51,040	2.5	25.8	234.4	0.040	1.40

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.143	24	10,520	0.46	560	$2,810

GREEN INFRASTRUCTURE RECOMMENDATIONS





Clarence Dillon Public Library

- bioretention system
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

87. FAR HILLS-BEDMINSTER FIRE DEPARTMENT

Subwatershed: Raritan River North Branch

Site Area: 1,088,910 sq. ft.

Address: 1 Miller Lane
Bedminster, NJ 07921

Block and Lot: Block 36, Lot 19

A cistern can be installed in the southwest corner of the building to allow roof runoff to be reused. A bioretention system can be installed at the northeast corner of the building to capture, treat, and infiltrate rooftop runoff. Pervious pavement can be installed in the parking spaces behind and south of the building to filter and infiltrate pavement runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
4	48,960	2.4	24.7	224.8	0.038	1.34

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.250	42	18,300	0.81	2,300	$11,500
Pervious pavement	0.127	21	15,580	0.69	1,500	$37,500
Rainwater harvesting	0.091	15	3,000	0.29	3,000 (gal)	$6,000

GREEN INFRASTRUCTURE RECOMMENDATIONS

Far Hills-Bedminster Fire Department

- bioretention system
- pervious pavement
- rainwater harvesting
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 30' 60'

88. FULTON BANK OF NEW JERSEY

Subwatershed: Raritan River North Branch

Site Area: 53,698 sq. ft.

Address: 578 Allen Road
Bernards Township, NJ
07920

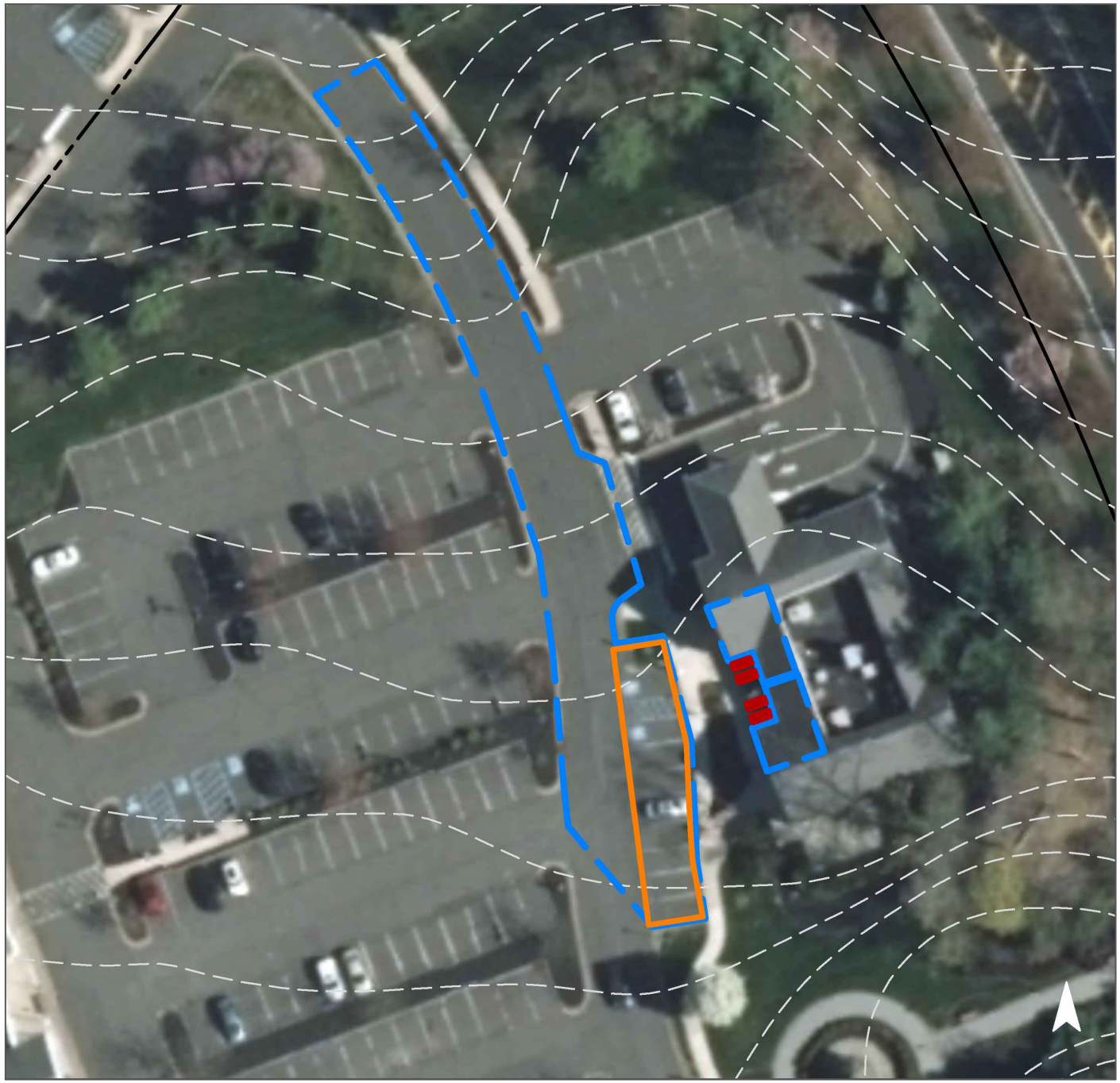
Block and Lot: Block 10001, Lot 4

Parking spaces in the parking lot can be converted to porous pavement to capture and infiltrate stormwater runoff from the parking lot. Downspout planter boxes can be installed at the entrance of the building to beautify the space and capture stormwater runoff from the roof. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
67	304,580	14.7	153.8	1,398.4	0.237	8.35

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.217	36	15,950	0.60	1,490	$37,250
Planter box	n/a	3	n/a	n/a	4 (boxes)	$4,000

GREEN INFRASTRUCTURE RECOMMENDATIONS



Fulton Bank of New Jersey

- pervious pavement
- planter box
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

89. MILLER LANE PARK

Subwatershed: Raritan River North Branch

Site Area: 617,490 sq. ft.

Address: 75 Miller Lane
Bedminster, NJ 07921

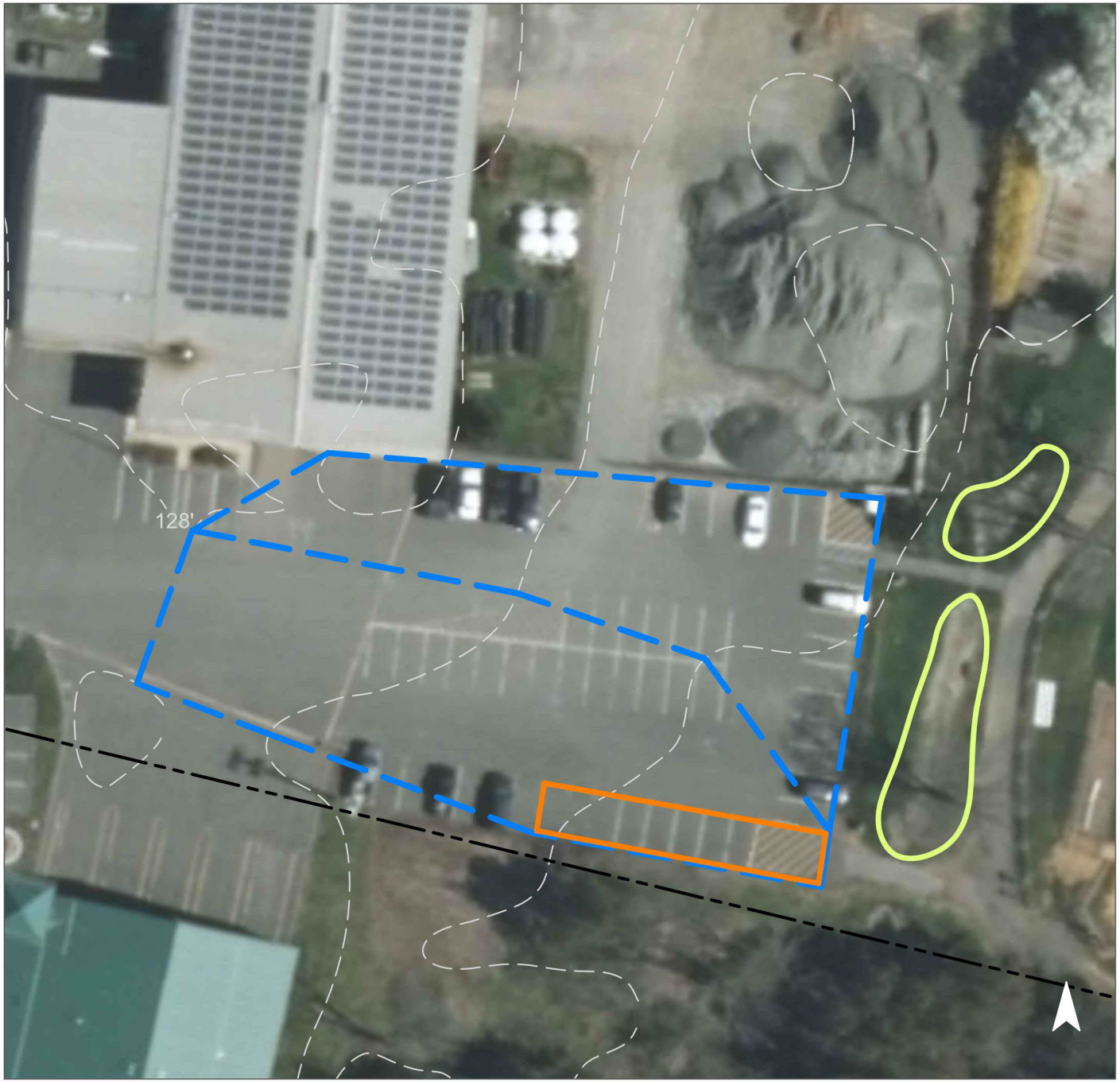
Block and Lot: Block 36, Lot 14

Connected bioretention systems can be installed on the eastern edge of the parking lot to capture, treat, and infiltrate runoff. The systems can be linked by pipes (already installed) shown in the above image. Pervious pavement can be installed in the parking spaces on the southern edge of the parking lot to filter and infiltrate pavement runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
22	133,840	6.5	67.6	614.5	0.104	3.67

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.273	46	19,995	0.88	2,640	$13,200
Pervious pavement	0.361	60	26,472	1.17	1,740	$43,500

GREEN INFRASTRUCTURE RECOMMENDATIONS



Miller Lane Park

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

90. MOUNT PROSPECT SCHOOL

Subwatershed: Raritan River North Branch

HUC14 ID 02030105060090

Site Area: 524,252 sq. ft.

Address: 111 Hansom Road
Basking Ridge, NJ 07920

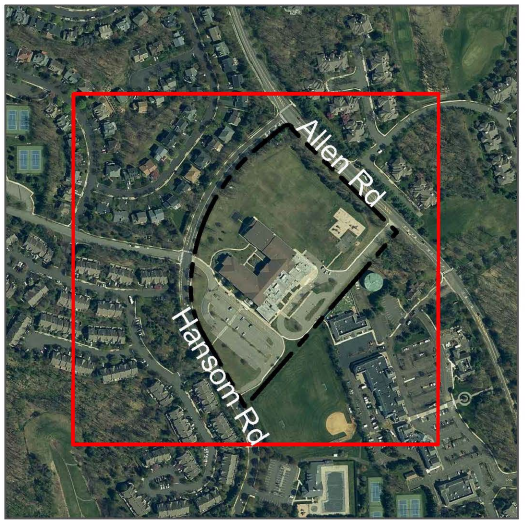
Block and Lot: Block 10001, Lot 1

Rain gardens can be installed in multiple grass areas around the property to capture, treat, and infiltrate the stormwater runoff from the driveways and building rooftop. This will require curb cuts, trench drains, and redirection of downspouts underneath the sidewalk. Existing parking spaces in the western parking lot can be converted into pervious pavement to capture and infiltrate the stormwater runoff from the asphalt. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 49"
44	231,469	11.2	116.9	1,062.8	0.180	7.07

Recommended Green Infrastructure Practices	Drainage Area (sq. ft.)	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	11,905	0.345	51	23,050	0.87	2,975	$29,750
Pervious pavement	32,890	0.954	144	63,700	2.39	8,370	$209,250

GREEN INFRASTRUCTURE RECOMMENDATIONS



Mount Prospect School

- bioretention system
- pervious pavement
- captured drainage area
- property line
- 2020 Aerial: NJOIT, OGIS

0 100' 200'

91. PLUCKEMIN USPS

Subwatershed: Raritan River North Branch

Site Area: 81,890 sq. ft.

Address: 318 US Highway 206
Pluckemin, NJ 07921

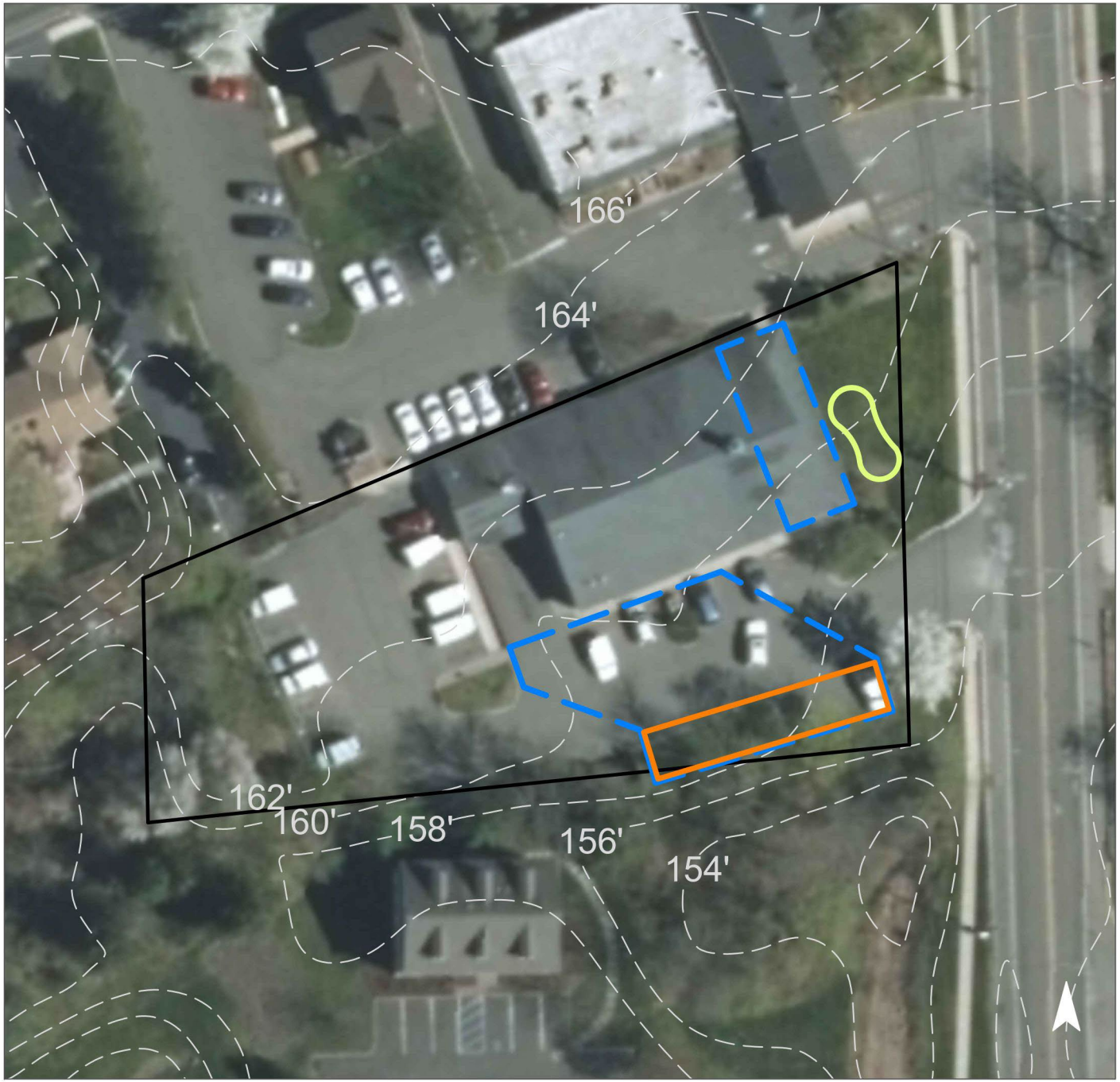
Block and Lot: Block 58, Lot 2

A rain garden can be installed north of the building to capture, treat, and infiltrate stormwater runoff from the rooftop of the building. Additionally, pervious pavement can be installed in the northeast parking lot to capture stormwater from the parking lot. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
100	81,890	3.9	41.4	376.0	0.064	2.25

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.038	6	2,798	0.12	360	$1,800
Pervious pavement	0.126	21	9,260	0.41	1,460	$36,500

GREEN INFRASTRUCTURE RECOMMENDATIONS



Pluckemin USPS

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'

92. SOMERSET HILLS LEARNING INSTITUTE

Subwatershed: Raritan River North Branch

Site Area: 538,250 sq. ft.

Address: 1810 Burnt Mills Road
Bedminster, NJ 07921

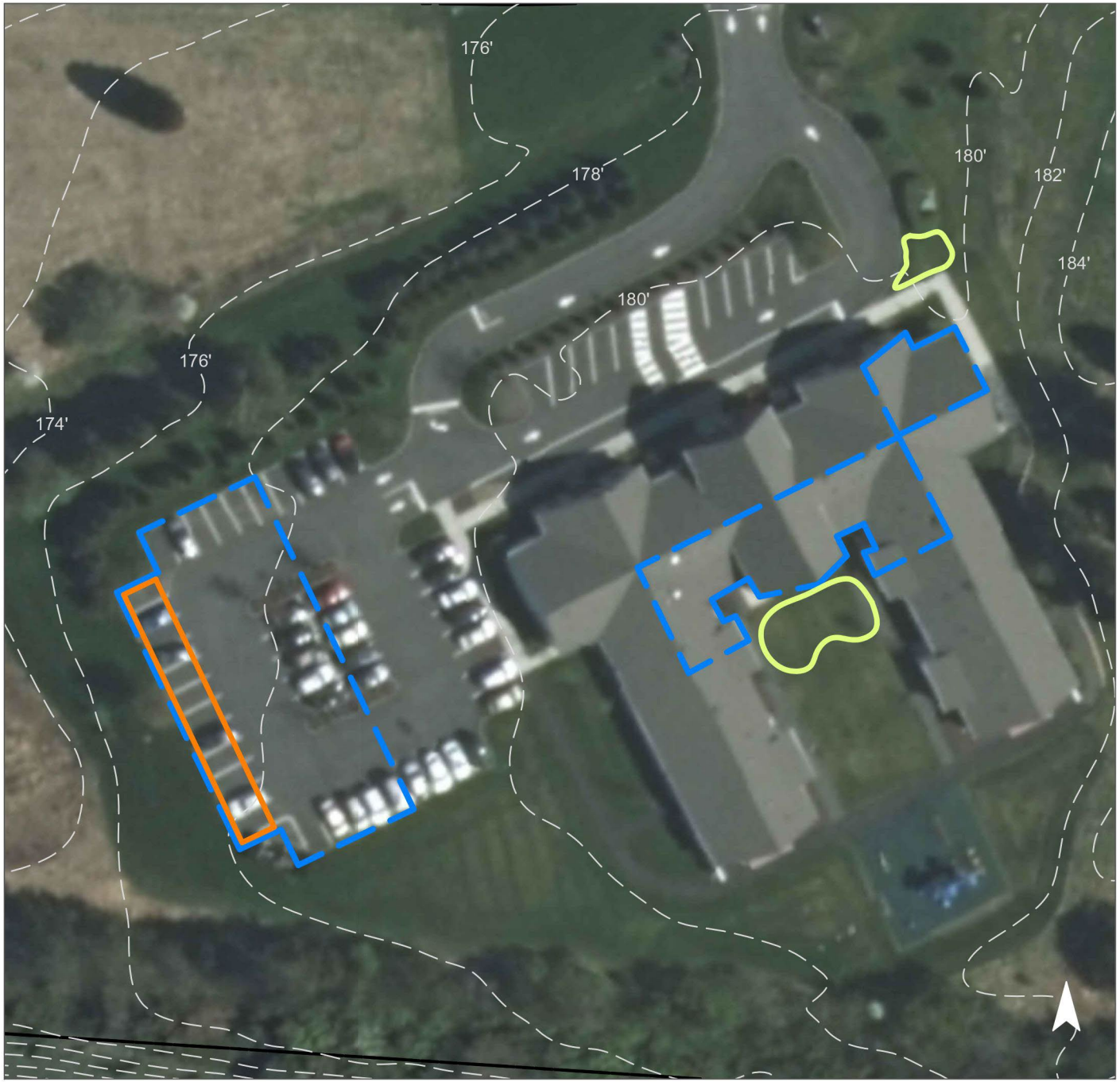
Block and Lot: Block 62.01, Lot 1

Bioretention systems can be installed at the northeast corner of the school (just beyond the corner of the sidewalk seen) and in the center of the courtyard to capture, treat, and infiltrate rooftop runoff. Pervious pavement can be installed at the western edge of the parking lot to manage pavement runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
11	60,808	2.9	30.7	279.2	0.047	1.67

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.143	24	10,517	0.46	1,300	$6,500
Pervious pavement	0.243	41	177,840	0.79	2,015	$50,375

GREEN INFRASTRUCTURE RECOMMENDATIONS



Somerset Hills Learning Institute

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 30' 60'

93. SORDONI CONSTRUCTION COMPANY

Subwatershed: Raritan River North Branch

Site Area: 107,690 sq. ft.

Address: 1 Pluckemin Way
Bedminster, NJ 07921

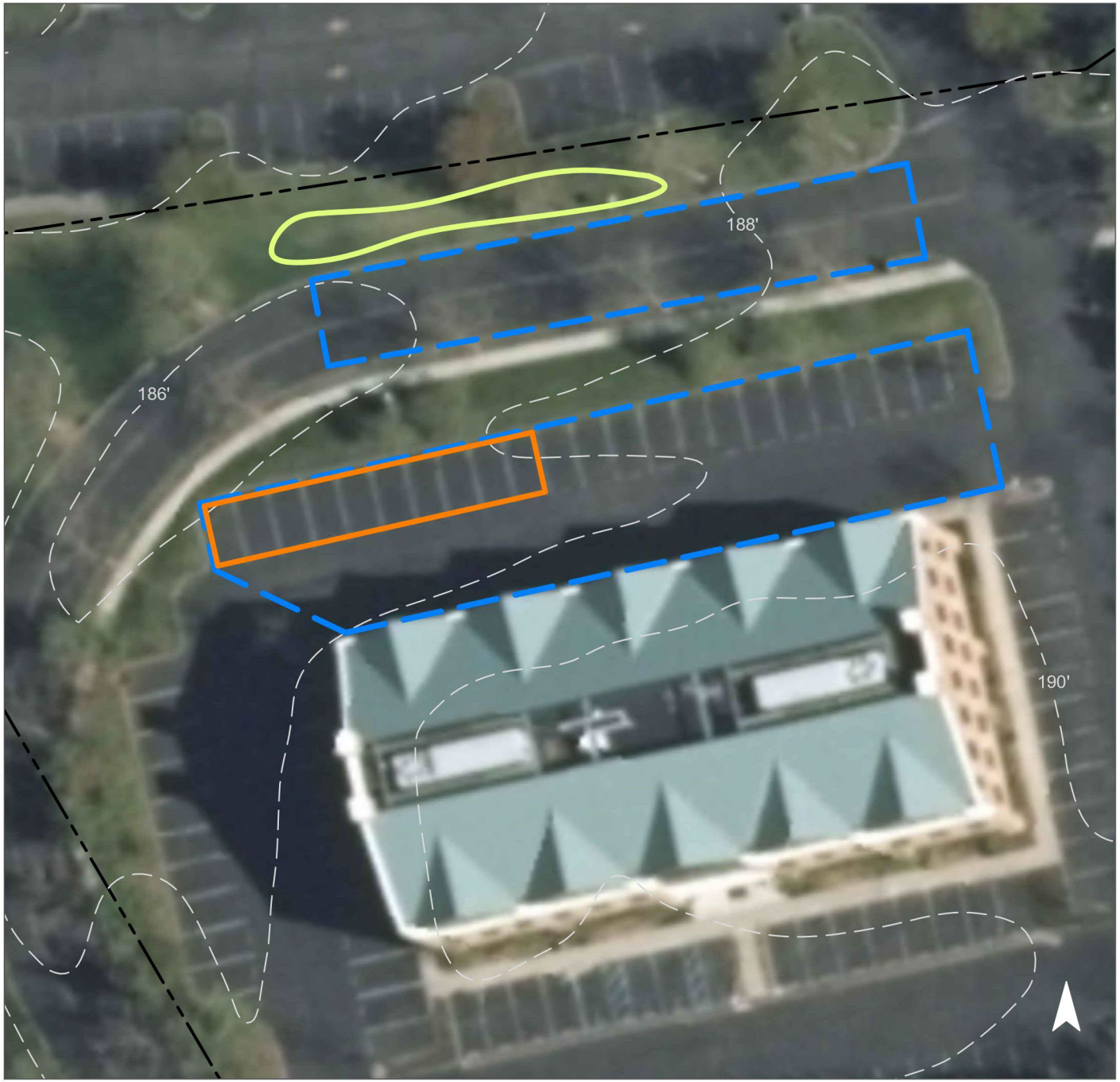
Block and Lot: Block 57, Lot 7

A bioretention system can be installed north of the road in front of the building to manage pavement runoff. Parking spaces north of the building can be replaced with pervious pavement to capture and infiltrate stormwater runoff from the parking lot. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
77	83,420	4.0	42.1	383.0	0.065	2.29

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.100	17	7,323	0.32	960	$4,800
Pervious pavement	0.214	36	15,738	0.69	1,620	$40,500

GREEN INFRASTRUCTURE RECOMMENDATIONS



Sordoni Construction Co

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 20' 40'

94. THE HILLS VILLAGE CENTER

Subwatershed: Raritan River North Branch

Site Area: 535,740 sq. ft.

Address: 402 Route 206 North
Bedminster, NJ 07921

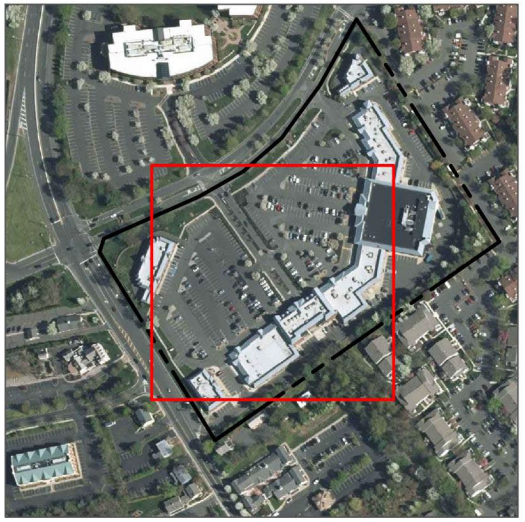
Block and Lot: Block 59.27, Lot 11.1

A bioretention system can be installed on the northwestern side of Pancheros Mexican Grill to capture, treat, and infiltrate rooftop runoff from Pancheros Mexican Grill located in the Hills Village Center. Pervious pavement can be installed in various locations on the northern side of the parking lot to filter and infiltrate pavement runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
84	448,910	21.6	226.7	2,061.1	0.35	12.31

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.079	13	5,782	0.25	735	$3,675
Pervious pavement	0.703	118	51,560	2.27	4,925	$123,125

GREEN INFRASTRUCTURE RECOMMENDATIONS



The Hills Village Center

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 50' 100'

95. THE PLUCKEMIN INN

Subwatershed: Raritan River North Branch

Site Area: 66,940 sq. ft.

Address: 359 US Highway 206
Bedminster, NJ 07921

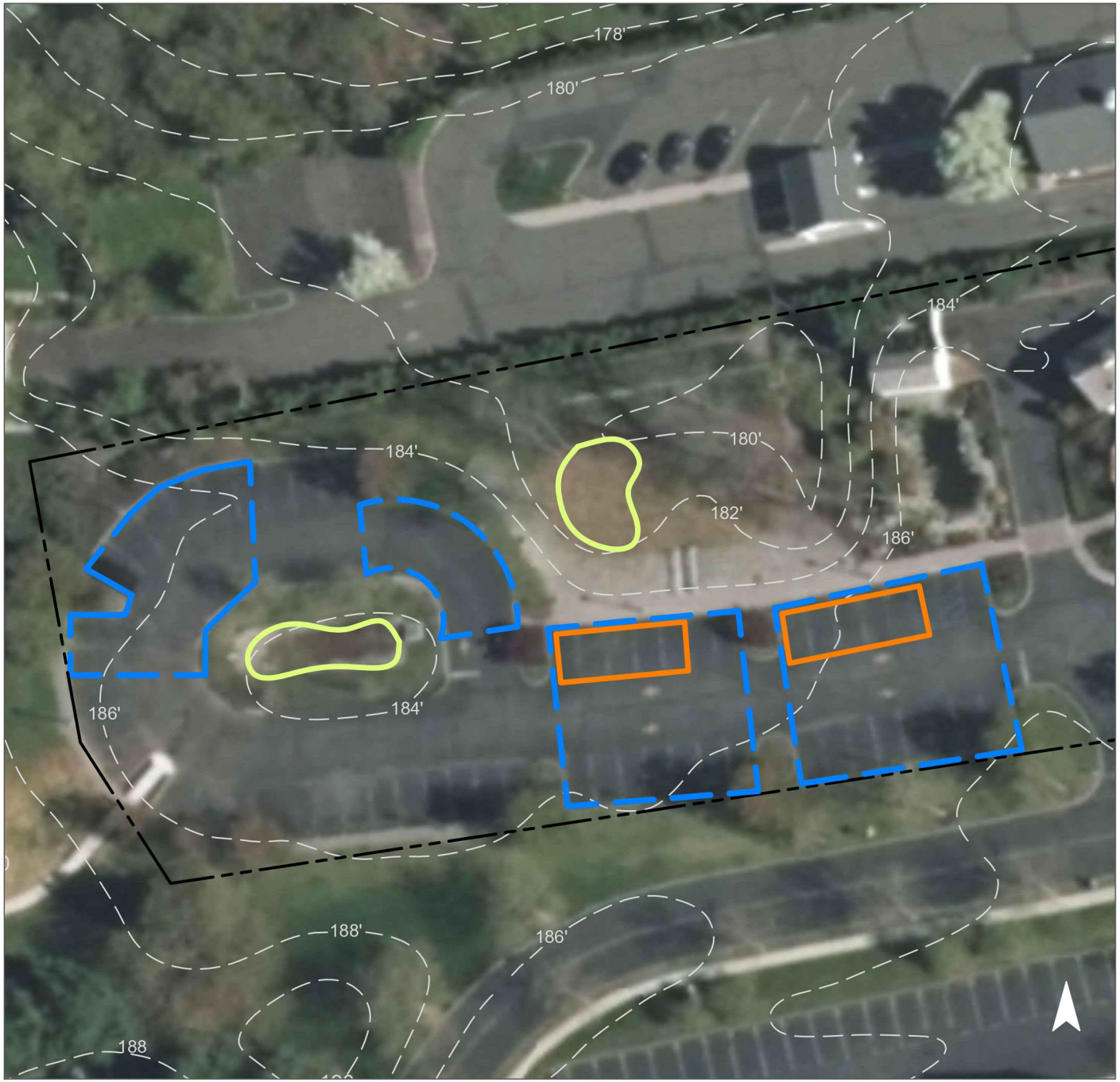
Block and Lot: Block 57, Lot 3

The detention basin in the center of the parking lot can be retrofitted to act as a bioretention system to capture, treat, and infiltrate parking lot runoff. An additional bioretention system can be installed north of the parking lot to capture, treat, and infiltrate additional parking lot runoff. Pervious pavement can be installed in the parking spaces in the northeastern side of the parking lot to infiltrate pavement runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
70	46,870	2.3	23.7	215.2	0.037	1.29

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention systems	0.109	18	8,011	0.35	1,430	$7,150
Pervious pavement	0.208	35	15,244	0.67	1,435	$35,875

GREEN INFRASTRUCTURE RECOMMENDATIONS



The Pluckemin Inn

- bioretention system
- pervious pavement
- drainage area
- property line
- 2015 Aerial: NJOIT, OGIS

0 25' 50'