

ENVIRONMENTAL REPORT FLOOD HAZARD AREA CONTROL ACT RULES

RARITAN LOFTS

**BLOCK 116.01, LOT 11.01
BOROUGH OF RARITAN
SOMERSET COUNTY, NEW JERSEY**

Prepared for:

Raritan Mall, LLC
148 East 5th Street, Building 7A
Bayonne, NJ 07002

Prepared by:

BCG # 081289-01-01

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February 28, 2023

ENVIRONMENTAL REPORT FLOOD HAZARD AREA CONTROL ACT RULES

RARITAN CENTER

**BLOCK 116.01, LOT 11.01
BOROUGH OF RARITAN
SOMERSET COUNTY, NEW JERSEY**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Eric L. Keller
New Jersey Professional Engineer
License No. 24GE03205400

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I. INTRODUCTION

A. Purpose of Report and Accompanying Documents

This report has been prepared to support an application made to the New Jersey Department of Environmental Protection's Division of Land Resource Protection (NJDEP-DLRP) seeking a Verification and an Individual Permit pursuant to the Flood Hazard Area Control Act Rules (NJAC 7:13, et. seq., hereinafter "Flood Hazard Rules") for the redevelopment of an existing retail center, currently known as the Raritan Mall, in the Borough of Raritan (Somerset County). The project site is located west of NJ Route 206, north of Orlando Drive and east of Busky Lane in the Borough of Raritan upon property identified as Block 116.01, Lot 11.01 on the Borough's Tax Maps. As detailed in the accompanying Engineering Report, the majority of the subject property lies within the flood fringe of the Raritan River.

Additional information pertaining to the location of the subject property and a description of the project site are provided in Subsection I-B below, while Subsection I-C of this report describes the proposed project. In general, the project primarily entails the demolition of an existing retail building and the construction of a new multi-use building within approximately the same footprint. The new building will include both residential and retail uses, as well as a parking garage.

To our knowledge, the property does not have any prior permitting history with the Department's Land Use Division. Refer to Subsection I-B of this report for a brief overview of the property's history.

This report satisfies the requirement(s) for an "Environmental Report" as set forth at Subpart 18.8 of the Flood Hazard Rules. Specifically, Section II of this report provides a narrative that describes the proposed design and construction techniques, pursuant to Subparagraph (a)(1) of Subpart 18.8. Section III of this report addresses the environmental considerations relevant to Subparagraph (a)(3) of Subpart 18.8. The appendices of this report, in conjunction with the accompanying set of plans referenced below, provide the maps and environmental inventory referenced in Subparagraph (a)(2) of Subpart 18.8.

This report should be reviewed and considered in conjunction with the following documents, which have also been prepared by Bowman Consulting and submitted to the Department in support of the subject application:

- Engineering Report, Flood Hazard Area Control Act Rules; Raritan Lofts; Block 116.01, Lot 1.01, Borough of Raritan, Somerset County, New Jersey; dated February 28, 2023.
- Set of plans 'entitled "Flood Hazard Verification and Permitting Plans for Raritan Lofts; Block 116.01, Lot 11.01, Borough of Raritan, Somerset County, New Jersey," consisting of 29 drawings per set, dated February 28, 2023.

B. Location and Description of Project Site

1. Location

As indicated above, the subject project site is located west of NJ Route 206, north of Orlando Drive and east of Busky Lane in the Borough of Raritan, Somerset County. Also as noted above, the site is currently known as the Raritan Mall. **Appendix A** of this report contains a copy of a portion of a Hagstrom Road Map that includes designation of the subject property as the Raritan Mall.

Appendix A of this report also contains a map illustrating the project site's location upon a portion of the Raritan and Bound Brook USGS Quadrangle. This map also indicates the proximity of the project site to the Raritan River. The State Plane coordinates for the approximate center of the site, which are also shown on the above referenced USGS map, are as follows:

- E(x) 457,000
- N(y) 631,500

A copy of each of the applicable municipal tax map sheets are also provided in **Appendix A** of this report. It should be noted that while the tax map indicates the subject property encompasses 12.2 acres, the survey performed for the parcel determined the area to be 10.8845 acres.

2. Project Site History

According to a report prepared by Partner Engineering and Science, Inc. entitled *Phase I Environmental Site Assessment Report*, the subject property was part of the Borough's landfill between 1959 and 1979. The current shopping mall was constructed upon the property circa 1985. The buildings and paved parking lots are a component of the landfill's cap. Accordingly, the proposed redevelopment of the property is subject to the review and approval of the Licensed Site Remediation Professional (LSRP) retained by the Owner. Our office has been coordinating the proposed redevelopment design with the LSRP.

3. Description of Project Site

The project site, being Lot 11.01 of Block 116.01 in the Borough of Raritan (Somerset County) encompasses approximately 10.9 acres, with approximately 850 feet of frontage along Orlando Drive to the south and 540 feet of frontage along Busky Lane to the east. The western perimeter of the property includes 150 feet of frontage along NJ Route 206, as well as nearly 350 feet of frontage along the ramp connecting Route 206 to Orlando Drive. As noted above, the site has been previously utilized for the Borough's landfill and subsequently developed as a retail center. The property has been known as the site of the Raritan Mall since the mid-1980's.

There are currently two retail buildings existing on the site. Both buildings are one-story structures. The larger of the two existing buildings, measuring approximately 104,500 square feet, is an L-shaped structure situated in the western portion of the property. The smaller of the two existing buildings, having an approximate 11,000 square foot footprint, is located in the eastern portion of the property.

The vast majority of the remainder of the project site is currently comprised of paved drives and parking spaces. There are also concrete sidewalks adjacent to portions of both buildings. Consequently, approximately 10.25 acres (nearly 95%) of the property is currently covered by impervious surfaces.

Topographically, the property generally slopes southward towards Orlando Drive, with grades typically ranging from extremely flat (less than one percent) to flat (generally less than two percent). Overall, the 10.9-acre property has only on the

order of 7 feet of topographic relief, as on-site elevations predominately vary between elevation 53.0 feet and 46.0 feet.

All of the elevations given in this report, as well as all the elevations provided on the above referenced accompanying plans, are based upon the North American Vertical Datum of 1988 (NAVD 1988). The equation for conversion to the National Geodetic Vertical Datum of 1929 (NGVD 1929) at the site is as follows:

$$\text{NGVD 1929} = \text{NAVD 1988} + 0.90 \text{ FEET}$$

C. Description of Proposed Project

The project primarily involves the demolition of the existing L-shaped 104,500 square foot retail building and the construction of a new multi-story mixed-use building in approximately the same footprint. The new mixed use building will provide 276 residential units, including qualifying affordable housing units. In addition, the new building will provide for approximately 22,000 square feet of retail space and a parking garage accommodating 184 spaces. The existing one-story retail building on the eastern portion of the property will remain.

The on-site paved access drives and parking areas will be reconstructed and regraded as required to render the project compliant with Subpar 12.6 of the Flood Hazard Rules (refer to Section III-G of the accompanying Engineering Report for specific detail). Curbing and additional drainage inlets and piping will be provided in conjunction with the reconstruction of the paved areas. Further, inasmuch as a portion of the project's required parking will be accommodated within the proposed parking garage, much of the paved parking areas existing in the southeastern portion of the property will no longer be required and will be removed and replaced with vegetated soil pursuant to the direction of the LSRP. As a result, the project will result in an estimated 2.44 acre decrease in impervious cover (reducing the site's coverage from 95% to 72%).

The project also includes the acquisition of an access easement across adjacent property to the northeast (Lots 25, 26.01, 27 & 27.01 of Block 116.01, as well as Lot 3 of Block 112) because the existing roadways adjacent to the subject

property are at an elevation that does not satisfy the requirements set forth at Subpart 12.6 of the subject Rules. The access easement provides for the required "high and dry" access extending from Somerset Street, as illustrated on the accompanying plans.

Refer to Section II of this report for additional information pertaining to the project's design objectives and requirements, including information pertaining to the project site being designated as an area in need of redevelopment pursuant to the New Jersey Local Redevelopment and Housing Law (NJSA 40:12-A).

II. DESIGN AND CONSTRUCTION TECHNIQUES

This section of this report summarizes the design goals established for the project and also identifies any special construction techniques anticipated or required to implement the project as designed. This section of this report is specifically intended to satisfy the requirements at Subpart 18.8(a)(1) of the FHA Rules.

A. Design

The project's design elements are described in detail in Subsection I-B of this report. This section of this report summarizes the design objectives and requirements that governed the project's design. In general, the project was designed to be compliant with all governing regulations and requirements applicable to the subject property, including being responsive to—and consistent with—the Borough of Raritan's ongoing efforts to designate the property within an "area in need of redevelopment."

The Borough of Raritan adopted a Resolution in September 2022 designating Block 116.01, Lot 11.01 as an area in need of redevelopment in accordance with the New Jersey Local Redevelopment and Housing Law, NJSA 40:12-A. The Area in Need of Redevelopment Study was prepared by Stanley Schrek, PE, AIA, PP, and dated August 22, 2022. The Borough is currently working to finalize the Redevelopment Plan for the site consistent with the plans accompanying this report. The plan is a mechanism for the Borough to provide realistic opportunities for affordable housing and to generate housing credits for the Borough to apply towards its Round 3 obligation,

In addition the being responsive to the Borough's intent for the property, the project's design has also been developed to be compliant with the subject Flood Hazard Rules. To this end, the lowest floor of the proposed building has been designed to be at least a foot higher than the regulated flood elevation. Further, also to attain compliance with the Flood Hazard Rules, the design calls for the property to be regraded to assure vehicular access and parking is provided for all residential units at an elevation compliant with Subpart 12.6 of the Flood Hazard Rules (refer to Subsection III-G of the accompanying Engineering Report for specific detail). Inasmuch as the ingress and egress to/from the property

cannot be achieved at an elevation compliant with Subpart 12.6 from the existing perimeter roadways, the owner/applicant has obtained an access easement from properties neighboring the project site to the northeast, as illustrated on the accompanying plans.

Finally, recognizing that the project activities will unavoidably temporarily disrupt the surface of the site, which, as noted above, is a component of the former landfill's capping system, the project had to be designed in a manner acceptable to the Licensed Site Remediation Professional (LSRP). To this end, our office has coordinated the project's design with the LSRP.

B. Construction

The entire project is expected to be constructed using conventional construction techniques. The project should not require any unique or unusual construction methods.

III. IMPACT ASSESSMENT UPON ENVIRONMENTAL RESOURCES

This section of this report provides an assessment of the potential temporary and permanent impacts the project will have upon the environmental resources within or near the project site. Each environmental resource listed at Subpart 18.8(a)(3) of the Flood Hazard Rules is listed separately below. Each assessment includes a description of the resource within the project area, as well as a description of the project's proposed activities within the regulated area. Our assessment of the anticipated impacts follows each description.

A. Channels/Regulated Waters

Inventory

As indicated in Subsection I-B above, there are no regulated waters or channels upon the project site. The nearest regulated water is the Raritan River, which is located approximately 700 feet south of the project site, across Route 206.

Impact Assessment

The project does not propose any activities within any channel or regulated water. Therefore, the proposed project should not adversely impact regulated waters or channels.

B. Riparian Zone

Inventory

A regulated Riparian Zone exists along all regulated waters in the State, except for certain coastal and man-made waters (such as the Atlantic Ocean and/or an existing stormwater basin). The width of the regulated riparian zone, which is applied upland from the top of the banks of the regulated water, may be either 300 feet, 150 feet or 50 feet, depending upon several environmental considerations set forth at Subpart 11.2 of the Flood Hazard Rules.

Since, as noted above, the nearest regulated water is the Raritan River, located approximately 700 feet from the subject property, the project site is not encumbered by a regulated riparian zone.

Assessment

The project does not propose any activities within a regulated riparian zone; therefore, the project should not adversely impact any riparian zone.

C. Fishery Resources

Inventory

Subpart 11.5 of the Flood Hazard Rules references four Department publications that identify waters within the State containing fishery resources. One of the publications referenced in Subpart 11.5 is the *State's Surface Water Quality Standards* (NJAC 7:9B). The reach of the Raritan River in the vicinity of the project site is classified "FW2-NT" pursuant to this publication. The "NT" portion of the classification indicates the subject reach of the river is "non-trout". Therefore, the Raritan River in the vicinity of the project site is not a fishery resource for trout. A copy of the relevant pages of NJAC 7:9B is provided in **Appendix B** of this report. It should be noted that the subject reach of the river is situated downstream of the confluence of the North and South Branches of the river and upstream of the Landing Lane bridge in New Brunswick.

Another of the publications referenced in Subpart 11.5 of the Rules is entitled *Locations of Anadromous American Shad and River Herring During Their Spawning Period in New Jersey's Freshwaters Including Known Migratory Impediments and Fish Ladders*. Our review of this publication revealed a reported (unconfirmed) spawning run at the Lower Duke Island Dam, which is in the general vicinity of the subject project.

Assessment

Based upon the above, the reach of the Raritan River in the vicinity of the project site may be a fishery resource. Paragraphs (c) and (d) of Subpart 11.5 regulates activities proposed within a channel and/or riparian zone of regulated waters

containing fishery resources. As demonstrated in Subsections III-A and III-B above, the project does not entail any activities within a channel or within a regulated riparian zone. Therefore, the requirements at Paragraphs (c) and (d) of Subpart 11.5 are not applicable to the subject project.

D. Threatened and Endangered Species

Inventory

The subject property has been developed and utilized as a shopping center since circa 1985. As noted in Section I-B of this report, approximately 95% of the project site is currently comprised of impervious cover. There is no habitat suitable for threatened or endangered species on the project site.

Data obtained from the Department's Office of Natural Lands Management relevant to rare species in the vicinity of the project site is provided in **Appendix C** of this report.

Assessment

The redevelopment of the former shopping center property should not adversely impact any threatened or endangered species, or their habitat.

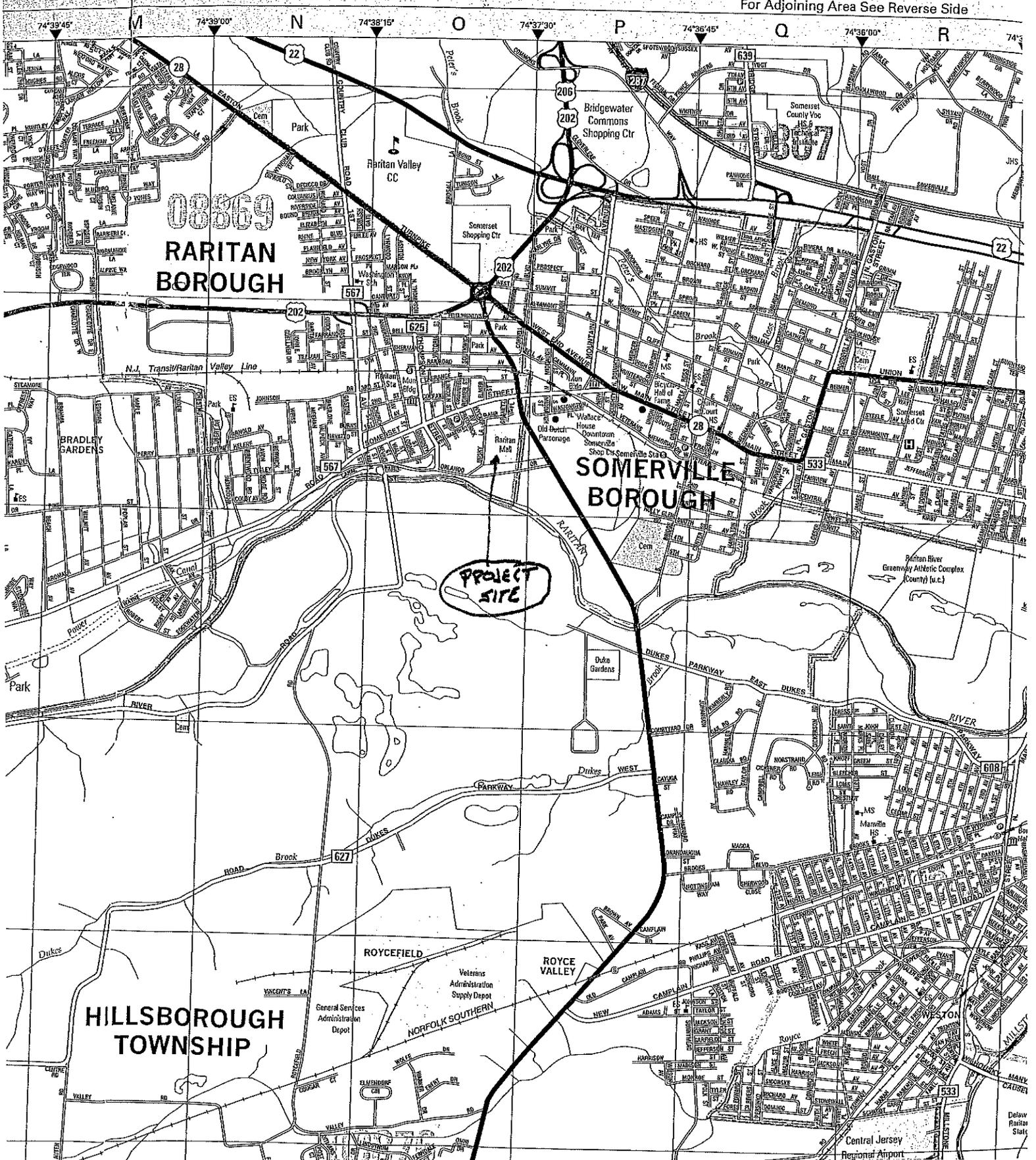
APPENDIX A

LOCATION MAPS

- **Hagstrom Road Map**
- **USGS Map**
- **Tax Map**

For Adjoining Area See Reverse Side

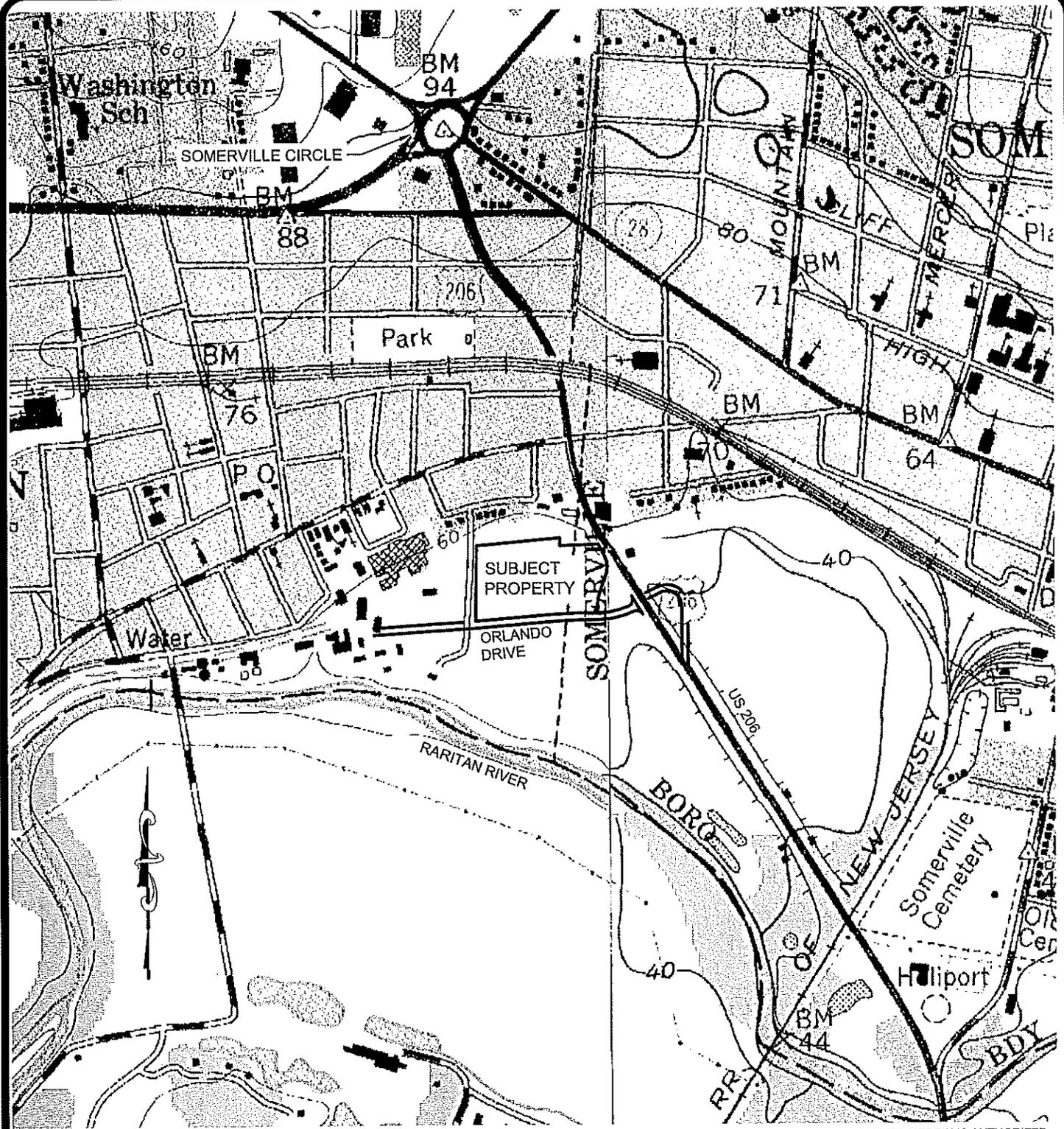
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29	Head Maple Ln	25	Mountain View Rd	29	Franklin Tpke	27	Deer Pt	27	Canterbury La	30	Baynon Rd	18	View St
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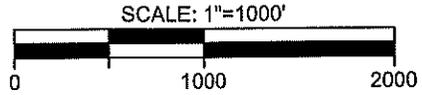
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RARITAN & BOUND BROOK USGS QUADRANGLES



CENTER OF SITE:
E: 457,000 FT
N: 631,500 FT

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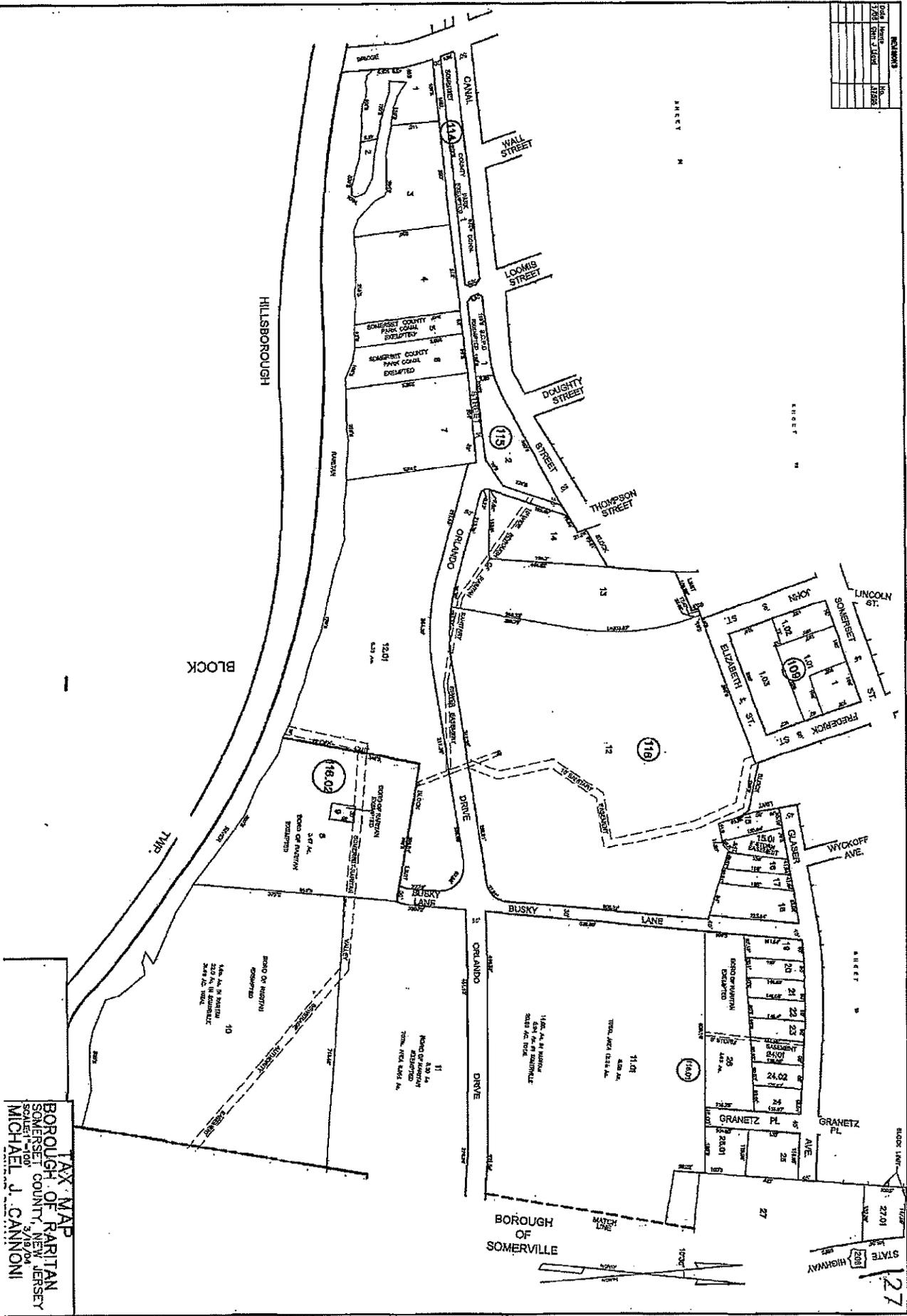
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E-mail: NJ@Bowman.com
Phone: 973-359-8400
FAX: 973-359-8455
NJ Certificate of Authorization
No. 24GA28222600

DATE: 02-17-2023 SCALE: 1"=1000' CHKD.:
PROJ.: 081289-01-001

Bowman

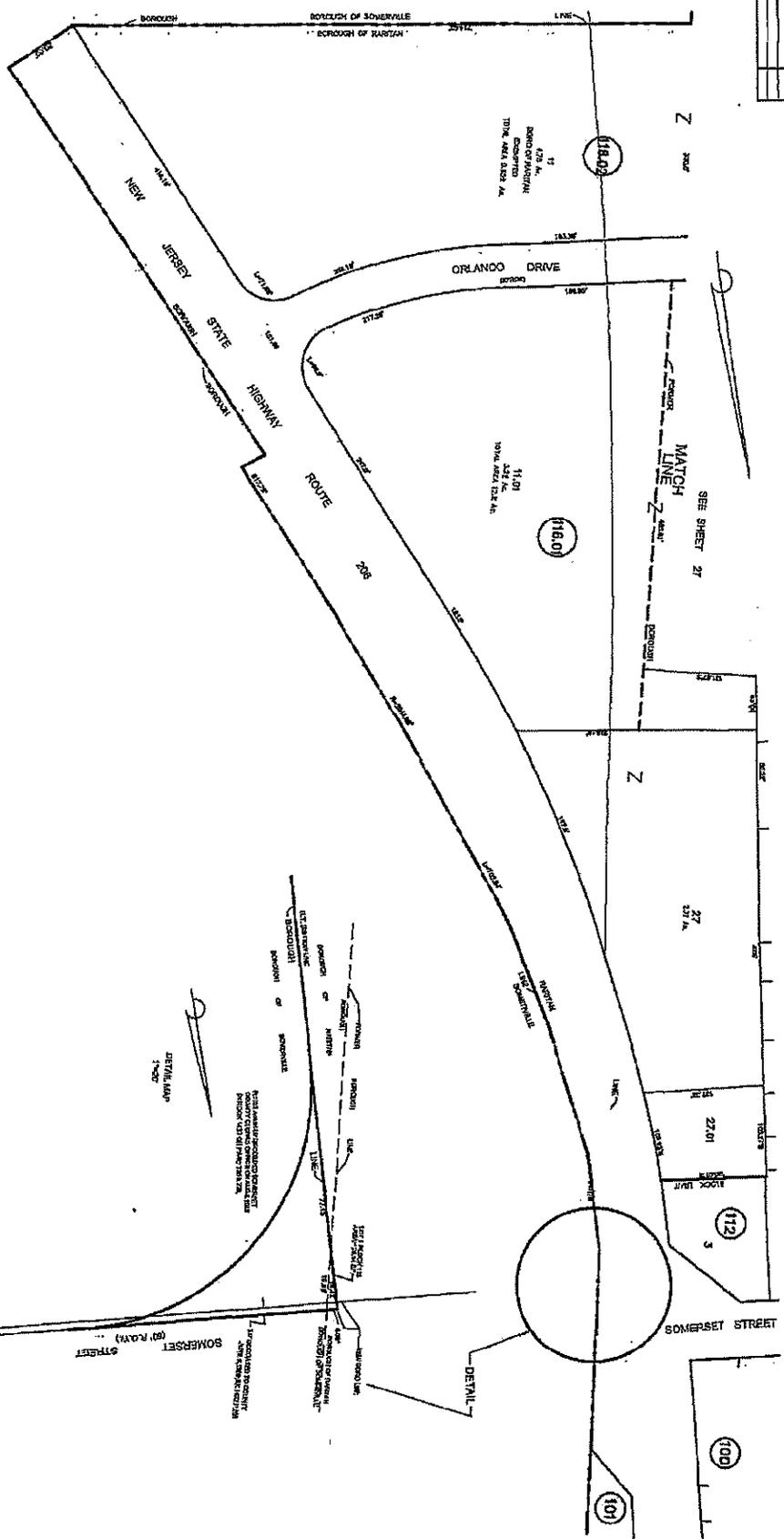
**RARITAN LOFTS
LOCATION MAP**
BLOCK 116.01, LOT 11.01
BOROUGH OF RARITAN, SOMERSET COUNTY, NEW JERSEY

DATE	1/10/88
BY	STATE
NO.	11808
1/28	STATE



TAX MAP
 BOROUGH OF PARITAN
 SOMERSET COUNTY, NEW JERSEY
 MICHAEL J. CANNONI

REVISIONS	
DATE	BY



This sheet has been drawn using
Computer Aided Drafting/ Design (CAD/D)

TAX MAP
BOROUGH OF RARITAN
SOMERSET COUNTY, NEW JERSEY
 SCALE: 1"=50'
MICHAEL J. CANNONI
 SCHORR, DEPALMA
 P. O. BOX 5192

APPENDIX B

SURFACE WATER CLASSIFICATION INFORMATION

THIS IS A COURTESY COPY OF THIS RULE. ALL OF THE DEPARTMENT'S RULES ARE COMPILED IN TITLE 7 OF THE NEW JERSEY ADMINISTRATIVE CODE.

N. J. A. C. 7:9B

Surface Water Quality Standards

Statutory Authority: N.J.S.A. 58:10A-1 et seq., 58:11A-1 et seq., and 13:1D-1 et seq.

Re-adopted: October 17, 2016

Last Amended - April 6, 2020 (52 N.J.R.711(a))

For regulatory history and effective dates, see the New Jersey Administrative Code

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*pg 45 Atlantic Coastal Basin
58 Upper Delaware
69 Lower Delaware
70 Passaic, Hackensack, NY Harbor
96 Upper Raritan River + Raritan Bay
96 lower Raritan River + Raritan Bay
100 Wallkill*

THIS IS A COURTESY COPY OF THIS RULE. ALL OF THE DEPARTMENT'S RULES ARE COMPILED IN TITLE 7 OF THE NEW JERSEY ADMINISTRATIVE CODE.

(Bedminster) - Rt. 512 bridge to confluence with South Branch, Raritan River, except tributary SE of Bedminster described below	FW2-NT
TRIBUTARIES, NORTH BRANCH RARITAN RIVER	
(SE of Ravine Lake) - Entire length, including all tributaries	FW2-TP(C1)
(SE of Bedminster) - Entire length, except the northeast tributary	FW2-TP(C1)
SOUTH BRANCH RARITAN RIVER	
(Mt. Olive) - Source to confluence with first tributary SW of Budd Lake	FW2-NT(C1)
(Washington) - Confluence with and including first tributary SW of Budd Lake to Lake Solitude, including all tributaries, except tributaries described separately	FW2-TP(C1)
(Clinton) - Lake Solitude outlet to Spruce Run, including all tributaries	FW2-TM(C1)
(Clinton) - Spruce Run to downstream end of Packers Island	FW2-TM
(Clinton) - Downstream end of Packers Island to confluence with and including the first westerly tributary below Main Street (County Route 613)	FW2-NT
(Three Bridges) - Confluence with the first westerly tributary below Main Street (County Route 613) to Neshanic River, including all tributaries	FW2-NT(C1)
(Neshanic Sta.) - Neshanic River to confluence with North Branch, Raritan River	FW2-NT
TRIBUTARIES, SOUTH BRANCH RARITAN RIVER	
(E. of Budd Lake Airfield) - Entire length	FW2-TM(C1)
MAIN STEM RARITAN RIVER	
(Bound Brook) - From confluence of North and South Branches to Landing Lane bridge in New Brunswick and all freshwater tributaries downstream of Landing Lane bridge.	FW2-NT ← *
(Sayreville) - Landing Lane bridge to Raritan Bay and all saline water tributaries	SE1
RINEHART BROOK (Hacklebarney) - Entire length	FW2-TP(C1)
ROCK BROOK	
(Montgomery) - Source to Camp Meeting Road, including all tributaries	FW2-NT(C1)
(Montgomery) - Camp Meeting Road to the confluence of Beden Brook	FW2-NT
ROCKAWAY CREEK	
NORTH BRANCH	
(Mountainville) - Source to Rt. 523 bridge	FW2-TP(C1)
(Whitehouse) - Rt. 523 bridge to confluence with South Branch	FW2-TM
SOUTH BRANCH	

APPENDIX C

RARE SPECIES INFORMATION (OFFICE OF NATURAL LANDS MANAGEMENT)



State of New Jersey

MAIL CODE 501-04

DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE PARKS, FORESTS & HISTORIC SITES

OFFICE OF NATURAL LANDS MANAGEMENT

501 East State Street

P.O. Box 420, Mail Code 501-04

Trenton, NJ 08625-0420

Tel. (609) 984-1339 • Fax (609) 984-0427

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

SHAWN M. LATOURETTE
Commissioner

February 23, 2023

Brian Woods
Bowman Consulting Group Ltd.
54 Horsehill Rd. Ste 100
Cedar Knolls, NJ 07927

Re: Raritan Mall Redevelopment
Block(s) - 116.01, Lot(s) - 11.01
Raritan Borough, Somerset County

Dear Brian Woods:

Thank you for your data request regarding rare species information for the above referenced project site.

Searches of the Natural Heritage Database and the Landscape Project (Version 3.3) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the map(s) submitted with the Natural Heritage Data Request Form into our GIS. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Landscape Project habitat mapping and the Biotics Database for occurrences of any rare wildlife species or wildlife habitat on the referenced site. The Natural Heritage Database was searched for occurrences of rare plant species or ecological communities that may be on the project site. Please refer to Table 1 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented on site. A detailed report is provided for each category coded as 'Yes' in Table 1.

We have also checked the Landscape Project habitat mapping and Biotics Database for occurrences of rare wildlife species or wildlife habitat in the immediate vicinity (within ¼ mile) of the referenced site. Additionally, the Natural Heritage Database was checked for occurrences of rare plant species or ecological communities within ¼ mile of the site. Please refer to Table 2 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented within the immediate vicinity of the site. Detailed reports are provided for all categories coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

We have also checked the Landscape Project habitat mapping and Biotics Database for all occurrences of rare wildlife species or wildlife habitat within one mile of the referenced site. Please refer to Table 3 (attached) to determine if any rare wildlife species or wildlife habitat is documented within one mile of the project site. Detailed reports are provided for each category coded as 'Yes' in Table 3. These reports may include species that have also been documented on the project site.

For requests submitted in order to make a riparian zone width determination as part of a Flood Hazard Area Control Act (FHACA) rule application, we report records for all rare plant species and ecological communities tracked by the Natural Heritage Program that may be on, or in the immediate vicinity of, your project site. A subset of these plant species is also covered by the FHACA rules when the records are located within one mile of the project site. One-mile searches for FHACA plant species will only report precisely located occurrences for those wetland plant species identified under the FHACA regulations as being critically dependent on the watercourse. Please refer to Table 3 (attached) to determine if any precisely located rare wetland plant species covered by the FHACA rules have been documented. Detailed reports are

provided for each category coded as 'Yes' in Table 3. These reports may include species that have also been documented on, or in the immediate vicinity of, the project site.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and ecological communities. Please refer to Tables 1, 2 and 3 (attached) to determine if any priority sites are located on, in the immediate vicinity, or within one mile of the project site.

A list of rare plant species and ecological communities that have been documented from the county (or counties), referenced above, can be downloaded from <https://nj.gov/dep/parksandforests/natural/heritage/database.html>. If suitable habitat is present at the project site, the species in that list have potential to be present.

Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from https://nj.gov/dep/parksandforests/natural/docs/nhpcodes_2010.pdf.

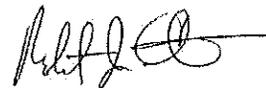
Beginning May 9, 2017, the Natural Heritage Program reports for wildlife species will utilize data from Landscape Project Version 3.3. If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive web application at the following URL, <https://njdep.maps.arcgis.com/apps/webappviewer/index.html?id=0e6a44098c524ed99bf739953cb4d4c7>, or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292-9400.

For additional information regarding any Federally listed plant or animal species, please contact the U.S. Fish & Wildlife Service, New Jersey Field Office at <http://www.fws.gov/northeast/njfieldoffice/endangered/consultation.html>.

Information supplied by the Natural Heritage Program summarizes existing data known to the program at the time of the request regarding the biological elements (species and/or ecological communities) or their locations. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,



Robert J. Cartica
Administrator

c: NHP File No. 23-4007456-26970

Table 1: On Site Data Request Search Results (6 Possible Reports)

<u>Report Name</u>	<u>Included</u>	<u>Number of Pages</u>
1. Possibly on Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites On Site	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	No	0 pages included
4. Vernal Pool Habitat on the Project Site Based on Search of Landscape Project 3.3	No	0 pages included
5. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included

Table 2: Vicinity Data Request Search Results (6 possible reports)

<u>Report Name</u>	<u>Included</u>	<u>Number of Pages</u>
1. Immediate Vicinity of the Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites within the Immediate Vicinity	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	1 page(s) included
4. Vernal Pool Habitat In the Immediate Vicinity of Project Site Based on Search of Landscape Project 3.3	No	0 pages included
5. Rare Wildlife Species or Wildlife Habitat In the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species In the Immediate Vicinity of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	Yes	1 page(s) included

**Rare Wildlife Species or Wildlife Habitat Within the
Immediate Vicinity of the Project Site Based on Search of
Landscape Project 3.3 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Srank
Aves	American Kestrel	Falco sparverius	Nest	3	NA	State Threatened	G5	S2B,S2N
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Cooper's Hawk	Accipiter cooperii	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N

**Other Animal Species
In the Immediate Vicinity of the Project Site Based on
Additional Species Tracked by
Endangered and Nongame Species Program**

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Grank	Srank
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Invertebrate Animals

Metarranthis piosaria

Coastal Bog Metarranthis

G3G4

S3S4

Total number of records: 1

**Table 3: Within 1 Mile for Riparian Zone Width Determination
(6 possible reports)**

<u>Report Name</u>	<u>Included</u>	<u>Number of Pages</u>
1. Rare Plant Species Occurrences for Riparian Zone Width Determination (Flood Hazard Area Control Act Rule Application) - Within One Mile of the Project Site Based on Search of Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites for Riparian Zone Width Determination - Within One Mile of the Project Site	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	1 page(s) included
4. Vernal Pool Habitat for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Search of Landscape Project 3.3	Yes	1 page(s) included
5. Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species for Riparian Zone Width Determination - Within One Mile of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	Yes	1 page(s) included

Rare Wildlife Species or Wildlife Habitat for Riparian Zone Width Determination
Within One Mile of the Project Site
Based on Search of Landscape Project 3.3 Species Based Patches

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection Status	State Protection Status	Grank	Strank
Aves	American Kestrel	Falco sparverius	Nest	3	NA	State Threatened	G5	S2B,S2N
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
		Haliaeetus leucocephalus	Nest	4	NA	State Endangered	G5	S1B,S2N
	Cooper's Hawk	Accipiter cooperii	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Wood Thrush	Hylocichla ustulata	Breeding	2	NA	Special Concern	G4	S3B,S4N
			Sighting					

**Vernal Pool Habitat for Riparian Zone Width Determination
Within One Mile of the Project Site
Based on Search of Landscape Project 3.3**

Vernal Pool Habitat Type	Vernal Pool Habitat ID
Potential vernal habitat area	1847
Potential vernal habitat area	1850
Potential vernal habitat area	1852
Total number of records:	3

**Other Animal Species for Riparian Zone Width Determination
Within One Mile of the Project Site
Based on Additional Species Tracked by
Endangered and Nongame Species Program**

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Grank	Srank
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Invertebrate Animals

Metarranthis pilosaria	Coastal Bog Metarranthis			G3G4	S3S4
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Total number of records: 1