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## GREEN SCHOOLS GUIDE – SCHEMATIC DESIGN REPORT

PS129Q – ADDITION

128-02 7<sup>th</sup> Avenue, Queens, NY 11356

LLW# 104739

Submission: December 2, 2016

Resubmission: January 9, 2017

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**PS129Q – ADDITION**

**Schematic Design Submission  
NYC Green Schools**

- I. GSG Minutes
- II. Project Checklist
- III. Project Credit Narratives
- IV. Supporting Credit Documentation
  - S1.2R – Site Selection
  - S1.3 – Sustainable Site & Building Layout
  - S 1.4 - Development Density & Community Connectivity
  - S 1.5R – Joint Use of Facilities, Community Access
  - S 1.6R – Environmental Site Assessment
  - S 2.1 – Alternative Transportation, Public Transportation Access
  - S 2.2 – Alternative Transportation, Bicycle Storage & Changing Rooms
  - S 3.2- Site Development: Maximize Open Space

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## **II. Project Checklist**



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## School Construction Authority

NYC Green Schools Rating System 2016

Project: **PS 129Q Addition**  
 Address | Zip Code: **128-02 7th Ave** | **11356**  
 LLW #: **104739**  
 Design #:   
 Architect: **Kenny and Khan Architects**

Submission (Check one): ☒ SD ☐ DD ☐ 60% ☐ 100% ☐ Const  
 Submission Date: **December 2, 2016**

Reviewer :   
 Reviewer Sign Off: \_\_\_\_\_

Credit Names	BD&C Reference LEED for Schools 2009	CHPS Reference	NYC GSG 2016	Credit Description and Relevant Information and Drop-Down Menus	RPC (check project zipcode in GSG)	Required For all Projects	Required if Feasible <sup>1</sup>	Optional Credits <sup>2</sup>	Design Phase If Anticipated, or if Documented: <sup>3</sup> Enter point value, or leave blank if Not Feasible or if Not Pursued	Construction Phase	Auto Filled: Blank if Pursued, No. of Points if Not Pursued or if Not Feasible or Additional Credit Not Pursued
<b>Site 36% of Total Points</b>					<b>Points: 16 out of 19</b>						
Site Selection	SS Pr 1	S 1.1P		<b>Construction Activity Pollution Prevention</b>		NP	<input checked="" type="checkbox"/> YES		Credit Req'd - Confirm Pursuit		
	SS 1	S 1.2R		<b>Site Selection</b>		1		1			
	1.1.7	S 1.3R		<b>Sustainable Site &amp; Building Layout</b>		NP	<input checked="" type="checkbox"/> YES		Indicate Pursuit <input type="checkbox"/> NO		
	SS 2	S 1.4		<b>Development Density &amp; Community Connectivity</b>	RPC	4		4			
	SS 10	1.1.2	S 1.5R	<b>Joint Use of Facilities, Community Access</b>		1		1			
Transportation	SS Pr 2	S 1.6P		<b>Environmental Site Assessment</b>		NP	<input checked="" type="checkbox"/> YES		Credit Req'd - Confirm Pursuit		
	SS 3	S 1.7		<b>Brownfield Redevelopment</b>		1			NF		1
	SS 4.1	S 2.1		<b>Alternative Transportation, Public Transportation Access</b>	RPC	4		4			
	SS 4.2	S 2.2		<b>Alternative Transportation, Bicycle Storage &amp; Changing Rooms</b>		1		1			
	SS 4.3/4.4	S 2.3R		<b>Alternative Transportation, Fuel-Efficient Vehicles/Parking Cap.</b>		2		2			
Minimize Impact on Site	SS 5.1	S 3.1		<b>Site Development, Protect or Restore Habitat</b>	RPC	1					1
	SS 5.2	S 3.2		<b>Site Development, Maximize Open Space</b>		1		1			
Stormwater Design	SS 6.2	S 4.1		<b>Stormwater Design, Quality Control</b>		1					1
Heat Island Effect	SS 7.2	S 5.1R		<b>Heat Island Effect, Roof</b>		1		1			
Outdoor Lighting	SS 8	S 6.1		<b>Light Pollution Reduction</b>		1		1			
Site Category Sub-Total:						5	14	16	0		3
<b>Water 7% of Total Points</b>					<b>Points: 3 out of 8</b>						
Outdoor Systems	WE 1.1	W 1.1		<b>Water Efficient Landscaping, Reduce by 50%</b>		2					2
	WE 1.1	W 1.2		<b>Water Efficient Landscaping, Reduce by 100%</b>		2					2
Indoor Systems	WE Pr 1	W 2.1P		<b>Minimum Water Use Reduction, 20% Reduction</b>		NP	<input checked="" type="checkbox"/> YES		Credit Req'd - Confirm Pursuit		
	WE 3	W 2.2R		<b>Enhanced Water Use Reduction, 30% Reduction</b>		2		2			
	WE 3	W 2.3		<b>Enhanced Water Use Reduction, 35% Reduction</b>		1		1			
	WE 3	W 2.4		<b>Enhanced Water Use Reduction, 40% Reduction</b>		1					1
Water Category Sub-Total:						2	6	3			5
<b>Energy 7% of Total Points</b>					<b>Points: 3 out of 5</b>						
Commissioning	EA Pr 1	E 1.1P		<b>Fundamental Commissioning</b>		NP	<input checked="" type="checkbox"/> YES		Credit Req'd - Confirm Pursuit		
Refrigerant Management	EA Pr 3	E 2.1P		<b>Fundamental Refrigerant Management</b>		NP	<input checked="" type="checkbox"/> YES		Credit Req'd - Confirm Pursuit		
	EA 4	E 2.2		<b>Enhanced Refrigerant Management</b>		2					2
Verification	EA 5	E 3.1R		<b>Measurement &amp; Verification</b>		1			1		
	3.3.5	E 3.2R		<b>Energy Management System Controls, HVAC &amp; H. W. Systems</b>		NP	<input checked="" type="checkbox"/> YES		Indicate Pursuit <input type="checkbox"/> NO		
Energy Efficiency	EA Pr 2	E 4.1P		<b>Minimum Energy Performance</b>		NP	<input checked="" type="checkbox"/> YES		Credit Req'd - Confirm Pursuit		
	3.1.2	E 4.2R		<b>HVAC System Sizing, Avoid Oversizing</b>		NP	<input checked="" type="checkbox"/> YES		Indicate Pursuit <input type="checkbox"/> NO		
Power	EA 6	E 5.1R		<b>Green Power</b>		2			2		
Energy Category Sub-Total:						3	2	0	3		2
<b>Materials 9% of Total Points</b>					<b>Points: 4 out of 10</b>						
Efficient Material Use	MR Pr 1	M 1.1P		<b>Storage &amp; Collection of Recyclables</b>		NP	<input checked="" type="checkbox"/> YES		Credit Req'd-Confirm Pursuit		
	MR 1.1	M 1.2		<b>Building Reuse, Maintain 75% of Existing Walls, Floors &amp; Roof</b>	RPC	1			NF		1
	MR 1.1	M 1.3		<b>Building Reuse, Maintain 95% of Existing Walls, Floors &amp; Roof</b>		1			NF		1
	MR 1.2	M 1.4		<b>Building Reuse, Maintain 50% of Interior Non-Structural Elements</b>		1			NF		1
	MR 2	M 1.5R		<b>Construction Waste Management, Divert 50% from Disposal</b>		1		1			
	MR 2	M 1.6R		<b>Construction Waste Management, Divert 75% from Disposal</b>		1		1			
Sustainable Materials	MR 2	M 1.7		<b>Construction Waste Management, Divert 95% from Disposal</b>		1					1
	MR 4	M 2.1R		<b>Recycled Content, 10% (post-consumer + ½ pre-consumer)</b>		1		1			
	MR 4	M 2.2		<b>Recycled Content, 20% (post-consumer + ½ pre-consumer)</b>		1					1
	MR 5	M 2.3		<b>Regional Materials, 10% Extracted, Processed &amp; Manufactured</b>		1		1			
	MR 5	M 2.4		<b>Regional Materials, 20% Extracted, Processed &amp; Manufactured</b>		1					1
	4.1.1	M 2.5R		<b>Wallboard &amp; Roof Deck Products, Mold Resistance</b>		NP	<input checked="" type="checkbox"/> YES		Indicate Pursuit <input type="checkbox"/> NO		
Materials Category Sub-Total:						3	7		4		6

See Notes on Page 2 of 2

# Project Checklist - page 2 of 2



## School Construction Authority

NYC Green Schools Rating System 2016

Project: **PS 129Q Addition**  
 Address | Zip Code: **128-02 7th Ave | 11356**  
 LLW #: **104739**  
 Design #: \_\_\_\_\_  
 Architect: **Kenny and Khan Architects**

Submission (Check one): ☒ SD ☐ DD ☐ 60% ☐ 100% ☐ Const  
 Submission Date: **December 2, 2016**

Reviewer : \_\_\_\_\_  
 Reviewer Sign Off: \_\_\_\_\_

Credit Names	BD&C Reference LEED for Schools 2009	CHPS Reference	NYC GSG 2009	Credit Description and Relevant Information and Drop-Down Menus	RPC (check project zipcode in GSG) <sup>5</sup>	Required For All Projects	Required If Feasible <sup>1</sup>	Optional Credits <sup>2</sup>	If Anticipated, or if Documented: 3 Enter point value, or leave blank if Not Feasible or if Not Pursued	Design Phase	Construction Phase	Auto Filled: Blank if Pursued, No. of Points if Not Pursued or if Not Feasible or Additional Credit Not Pursued
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Indoor Environmental Quality					27% of Total Points		Points:		12 out of 16			
<b>IAQ Post-occupancy</b>					<b>IEQ Pr 1</b>	<b>Q 1.1P Minimum IAQ Performance</b>	<b>NP</b>	<input checked="" type="checkbox"/> YES	Credit Req'd - Confirm Pursuit			
					IEQ 1	Q 1.2R Air Flow Stations, Outside Air Intakes	1		1			
<b>IAQ Pre-occupancy</b>					IEQ 3.1	Q 2.1R Construction IAQ Management Plan, During Construction	1			1		
					IEQ 3.2	Q 2.2R Construction IAQ Management Plan, Before Occupancy	1					1
<b>Low-Emitting Materials</b>					IEQ 4.1	Q 3.1R Low-Emitting Materials, Adhesives & Sealants <sup>4</sup>	1			1		
					IEQ 4.2	Q 3.2R Low-Emitting Materials, Paints & Coatings <sup>4</sup>	1			1		
					IEQ 4.3	Q 3.3R Low-Emitting Materials, Flooring Systems <sup>4</sup>	1			1		
					IEQ 4.4	Q 3.4R Low-Emitting Materials, Comp Wood & Agrifiber Products <sup>4</sup>	1			1		
<b>Pollution Source Control</b>					IEQ 5	Q 4.1R Indoor Chemical & Pollutant Source Control	1			1		
					5.3.5	Q 4.2R Electric Ignition Stoves	NP	<input checked="" type="checkbox"/> YES	Indicate Pursuit			
					6.2.4	Q 4.3R Post Construction Indoor Air Quality	NP	<input checked="" type="checkbox"/> YES	Indicate Pursuit			
<b>Controllability of Systems</b>					IEQ 6.1	Q 5.1R Controllability of Systems, Lighting	1			1		
					IEQ 6.2	Q 5.2R Controllability of Systems, Thermal Comfort	1			1		
<b>Thermal Comfort</b>					IEQ 7.1	Q 6.1R Thermal Comfort, Design	1			1		
<b>Lighting and Views</b>					IEQ 8.1	Q 7.1 Daylight & Views, Daylight 75% of Classrooms		1				1
					IEQ 8.1	Q 7.2 Daylight & Views, Daylight for 90% of Classrooms		1				1
					IEQ 8.1	Q 7.3 Daylight & Views, Daylight for 75% of Other Spaces		1				1
					IEQ 8.2	Q 7.4 Daylight & Views, Views		1		1		
					5.2.1	Q 7.5R Visual Performance, Artificial Direct-Indirect Lighting	NP	<input checked="" type="checkbox"/> YES	Indicate Pursuit			
<b>Acoustics</b>					<b>IEQ Pr 3</b>	<b>Q 8.1P Minimum Acoustical Performance</b>	<b>NP</b>	<input checked="" type="checkbox"/> YES	Credit Req'd - Confirm Pursuit			
					IEQ 9	Q 8.2 Enhanced Acoustical Performance & Sound for Special Spaces		1		1		
					SCA	Q 8.3R Acoustic Windows	NP	<input checked="" type="checkbox"/> YES	Indicate Pursuit			
IEQ Category Sub-Total:							11	5		7	5	4

Regional					0% of Total Points		Use pull-down menus		RPC Claimed		Points:		0 out of 4			
<b>Regionally Appropriate <sup>5</sup></b>					RP 1.1	R 1.1 Regionally Defined Credit Achieved	Blank			1						1
					RP 1.2	R 1.2 Regionally Defined Credit Achieved	Blank			1						1
					RP 1.3	R 1.3 Regionally Defined Credit Achieved	Blank			1						1
					RP 1.4	R 1.4 Regionally Defined Credit Achieved	Blank			1						1
Regional Category Sub-Total:										0	4	0	0			4

Additional Credits			14% of Total Points		For A 3.1 Use pull-down menu ↓		Points:		6 out of 33	
Innovation in Design	ID 2	A 1.1R	LEED® Accredited Professional		1		1			
	ID 1	A 1.2	Innovation or Exemplory Performance			1			1	
	ID 1	A 1.3	Innovation or Exemplory Performance			1			1	
Optional - Site Impact	SS 7.1	A 2.1	Heat Island Effect, Non-Roof			1	1			
	SS 6.1	A 2.2	Stormwater Design, Quantity Control	RPC		1			1	
	ID 1	A 2.3	Active Design in a School Environment			1			1	
Optional - Energy	EA 3	A 3.1	Enhanced Commissioning			2			2	
	EA 1	A 3.2	Optimize Energy Performance <sup>6</sup>	New 6%, Renovation 4%, 4 pts		16	4		12	
	EA 2	A 3.3	On-Site Renewable Energy	If NOT Approved, 0 pts		7			7	
	3.3.5	A 3.4	Enhanced Energy Management System Controls, HVAC & H.W.		NP	<input checked="" type="checkbox"/> YES	Indicate Pursuit		<input type="checkbox"/> NO	
Optional - IEQ	IEQ 4.6	A 4.1	Low-Emitting Materials, Ceiling and Wall Systems <sup>4</sup>			1			1	
Optional - Education	ID 3	A 5.1	The School Building as a Teaching Tool			1			1	

SCA Credit Name : Letter prefix indicates credit section (S, W, E, M, Q, R, A)  
 First number indicates the category within the section  
 Second number indicates the specific credit within the section category  
 Suffix "P" is added for credits that are LEED® prerequisites and therefore required of all projects  
 Suffix "R" is added for credits that are required of all projects  
 1 Projects required to achieve all "feasible" credits that are possible for a particular project.  
 2 Projects may only pursue optional "Additional" section credits with permission from SCA unless otherwise noted.  
 3 During GSG submission phases, enter anticipated design and construction credits, keeping the Checklist current.  
 4 A maximum total value of four (4) points is allowed between these six low-emitting material credits (Q3.1, 3.2, 3.3, 3.4; A4.1)  
 5 RPC incentive regional credits as indicated. If the referenced credit is achieved, then the associated RPC can be claimed.  
 6 This credit requires project-specific energy modeling and can not be achieved by use of proto-typical modeling.  
 7 LL86/05 requires Certified LEED® 2009 for Schools or equivalent of a no-less stringent rating system - Minimum 40-49 Points  
 NP: To be consistent with LEED®, the NYC GSG assigns no point value to prerequisites or non-LEED® credits.  
 NYC GSG: Requires that all credits be attempted and proof through calculation for those which are not-feasible.

### **III. Project Credit Narratives**

## Credit Compliance Narratives

Project: PS 129 Queens  
 Address: 128-02 7<sup>th</sup> Avenue, Flushing, NY  
 LLW #: 104739  
 Design #: \_\_\_\_\_

Date: December 5, 2016 Resubmission: January 9, 2017  
 Architect: Kenny and Kahn Architects  
 Submission: Schematic Design  
 Reviewer: \_\_\_\_\_  
 Reviewer Sign Off: \_\_\_\_\_

### Directions:

- Eleven of the Site narratives are submitted with the Schematic Submission as indicated below. All other required narratives are submitted with the Design Development submittal.
- Design Teams must submit narratives for all credits in the Site, Water, Energy, Materials and Indoor Environmental Quality sections. For the Additional Credits, all projects must include a narrative for credit A1.1R. Narratives for the other Additional Credits should only be provided when it has been determined with the SCA that the additional credit(s) are to be pursued for this project. Include explanation of why the additional credit is to be pursued on this project. For those credits subject to Regional Priority Credit, indicate whether based on the zip code that the credit is eligible to obtain the additional point.
- Narratives should summarize the design approach to credit compliance and identify the specific SCA standards (standard specifications and design requirements) to be incorporated into the design documents. Include any specific information requested under the "Credit Submittals" heading from the second page of credit text. Provide explanations and calculations where appropriate for credits that are determined to be "not feasible" for this project.

### Site Credits

#### Site Selection

S 1.1P Construction Activity Pollution Prevention

S 1.2R Site Selection

NARRATIVE AT SCHEMATIC SUBM.

The project site is required to meet the following requirements if feasible. The project meets all requirements as per the GSG 2016. Therefore, this requirement is feasible.

- Project is located on a previously developed site and therefore the flood plain requirements that the elevation of the site is no lower than 5 feet above the elevation of the 100 year flood plain as defined by the federal emergency management agency is not required.
- The site is not adjacent to a river or coastline. The US Fish and Wildlife Service listing of threatened or endangered species for the county has been provided. This list includes two species of birds (Piping Plover, Red Knot), one mammal (Northern Long-Eared Bat), and two reptiles (Hawksbill sea turtle, Leatherback sea turtle). Site specific documentation has been provided from the New York Natural Heritage Program, which confirms that the project is not located in an area with rare plants or animals.

- The Project is not located within 100 feet of any wetlands and thus will meet this requirement.
- Site was previously developed and site is not within 50 feet of a water body and will comply with the credit requirements.
- Project land was not parkland prior to acquisition.

SCA Design Requirements  
1.1.3.1 Feasibility Study

SCA Standard Specifications:  
None

S 1.3R Sustainable Site & Building Layout

NARRATIVE AT SCHEMATIC SUBM.

This credit is feasible. Plans included in the addenda of this submission identify viable location on the roof of the addition for potential renewable energy generation. There is ample Southern and Western exposure for solar access and the future installation of photovoltaic panels. Also, shadow patterns from surrounding buildings have been plotted onto the project site and indicate access to daylight for the addition.

In addition, a wind study was performed which determined the existing building provides shelter from prevailing north/west winds, and shadow patterns from the proposed addition onto adjacent properties have been plotted which do not indicate any impacts from shading.

Applicable SCA Design Requirements include:

- 1.1.3.1 Feasibility Study
- 1.3.1.1 Building Orientation
- 1.3.4.1 Entrances and Exits
- 2.5.1 Trees, Shrubs, Groundcover and Lawns

SCA Standard Specifications:  
None

S 1.4 Development Density & Community Connectivity

NARRATIVE AT SCHEMATIC SUBM.

The credit is feasible. The project is located at 128-02 7<sup>th</sup> Avenue in the College Point neighborhood of Queens, NY. Based on this location, the project can demonstrate compliance with S Credit 1.4, Option 1 – Community Connectivity. Compliance is met because the project is on a previously developed site within ½ mile of 10 Basic Services and a residential development that exceeds the density requirement of 10 units per acre. Within ½ mile of the project is residential block 3975e with a density of approximately 13 dwelling units per acre. The ten basic services also within ½ mile are noted in the table below.

Plan Key ID	Business Name	Service Type
1	Powell's Cove Park	Park
2	Danny's Steak House & Oyster Bar	Restaurant
3	New York League for Early Learning	Day Care
4	Poppenhusen Queens Public Library	Library
5	Hanac Angelo Petromelis Neighborhood SC	Senior Care Facility
6	Chase Bank	Bank
7	Boulevard Laundry	Laundry
8	Walgreens Pharmacy	Pharmacy
9	Unique Beauty Salon	Beauty Salon
10	St. Paul's Episcopal Church	Place of Worship

### SCA Design Requirements 1.1.3.1 Feasibility Study

SCA Standard Specifications:  
None

#### S 1.5R Joint Use of Facilities, Community Access

NARRATIVE AT SCHEMATIC SUBM.

This credit is feasible. The design will incorporate appropriate entrances for community use of the playground and the new student dining area on the 1<sup>st</sup> floor of the addition.

SCA Design Requirements:  
1.3.1.1 Building Location and Orientation  
1.3.5.1 Cafeteria PK-8 and HS

SCA Standard Specifications:  
None

#### S 1.6P Environmental Site Assessment

NARRATIVE AT SCHEMATIC SUBM.

This credit is feasible. A Phase I Environmental Site Assessment (ESA) was performed by GEI Consultants, Inc., and a report was provided to the NYC SCA on April 6, 2016. Environmental concerns noted in the Phase I ESA include the following:

- Potential presence of historic fill of unknown origin
- Potential presence of demolition debris and buried structures
- Suspect Asbestos-Containing Materials (ASM) and Lead-Based Paint (LBP)
- Potential Polychlorinated Biphenyl (PCB)-containing caulking

Based on the potential for contaminants on the site, a Phase II ESA was recommended for the project and was also performed by GEI Consultants, Inc. The Phase II ESA found the site suitable for use as a public school facility. Additionally, the following recommendations were provided:

- As a standard NYCSCA practice, a soil vapor barrier should be integrated into the new addition design including the integration with any proposed damp-proofing or water proofing components.
- All material excavated during construction activities should be properly characterized prior to transportation to an off-Site disposal facility, including collection and analysis of additional samples as required by the contractor-selected disposal facilities.
- Fill material should be evaluated for the presence of ACM. In addition, any suspect ACM, LBP, and/or PCB-containing materials affected by the proposed demolition or construction work should be identified prior to and properly managed during construction activities.
- After the proposed new building and grounds are constructed, if exposed soil (landscaped areas) is incorporated into the development of the Site, a minimum of two feet of environmentally clean fill should be placed over existing soil in these areas.

The Executive Summary from the project's Phase I and Phase II ESA is included in the supporting documents section of this SD GSG report.

SCA Design Requirements:  
None

SCA Standard Specifications:  
None

This credit is not feasible. On-Site Recognized Environmental Conditions (RECs) noted in the project's Phase I ESA warranted a Phase II ESA. This assessment included a geophysical survey and the completion of four soil borings. The results of the Phase II ESA showed dangerous levels of contaminants were not present on site and remediation actions were not required.

Applicable SCA Design Requirements include:  
None

SCA Standard Specifications:  
Project Specific specifications prepared by SCA IEH division.

## Transportation

S 2.1 Alternative Transportation, Public Transportation Access

NARRATIVE AT SCHEMATIC SUBM.

The Credit is feasible. The site is located within ¼ mile of a number of stops of for public bus line Q25, including the corner of 9<sup>th</sup> Avenue and 127<sup>th</sup> street, approximately 640 feet from the school's main entrance. Private busing will be provided for school students via Lorissa Bus Service Inc. and Logan Bus Company Inc. The morning pick-up and drop-off service will consist of 3 routes and 21 stops. The afternoon pick-up and drop-off service will include 4 routes and 19 stops. In addition, special education busing will be provided by Hoyt Transportation Corporation. Private busing will drop off and pick up students outside of the school on 7<sup>th</sup> Avenue, less than 100 feet from the school entrance.

S 2.2 Alternative Transportation, Bicycle Storage & Changing Rooms NARRATIVE AT SCHEMATIC SUB.

This Credit is feasible. The project design will include bike storage accommodating at least 5% of the staff and students above the third grade. The design will also include shower/changing facilities for 0.5% of the FTE staff occupancy. Once a formal POR is issued by the SCA, the design team will conduct calculations to confirm compliance. Currently, the addition is being design to accommodate up to the third grade only. So the Bike storage area, unisex shower facility and custodial locker rooms on the first floor are likely to meet the credit criteria.

Applicable SCA Design Requirements include:  
DR 1.3.1.12 Bicycle Storage  
DR 2.3.3 Bicycle Racks

Applicable SCA Standard Specifications include:  
02870 Site and Street Furnishings  
05700 Ornamental Metals

S 2.3R Alternative Transportation, Fuel-Efficient Vehicles/Parking CapacityNARRATIVE AT SCHEMATIC SUBM.

This credit is feasible. Project will comply with Option 1 of this credit and provide no new parking. No parking is in the scope of the project due to site constraints.

SCA Design Requirements:  
1.1.3.1 Feasibility Study

SCA Standard Specifications:  
None

Minimize Impact on Site

S 3.1 Site Development, Protect or Restore Habitat

NARRATIVE AT SCHEMATIC SUBM.

This credit is not feasible. Based on a total site area of 67,663sf with a building footprint of 12,745 sf, compliance would require that at least 27,459sf of area on the site be planted with native/adaptive vegetation. Providing the necessary area of native/adaptive vegetation would be in conflict with the provision of outdoor student recreation space required in the project program.

SCA Design Requirements:

1.1.3.1 Feasibility Study

1.3.1.1 Building Layout and Orientation

SCA Standard Specifications:

Section 02200 Earthwork

S 3.2 Site Development, Maximize Open Space

NARRATIVE AT SCHEMATIC SUBM.

Compliance is feasible. Based on a total site area of 67,377, compliance would require that at least 13,533sf of open space be provided with a minimum 3,383sf of native/adaptive vegetation. Current design includes approximately 54,918sf of open space and 6,377sf of vegetation. As the planting schedule is formalized, the Landscape Architect will specify native/adaptive plants to meet the thresholds noted herein.

Stormwater Design

S 4.1 Stormwater Design, Quality Control

Heat Island Effect

S 5.1R Heat Island Effect, Roof

Outdoor Lighting

S 6.1 Light Pollution Reduction

## Water Credits

Outdoor Systems

W 1.1 Water Efficient Landscaping, Reduce by 50%

W 1.2 Water Efficient Landscaping, Reduce by 100%

Indoor Systems

W 2.1P Minimum Water Use Reduction

W 2.2R Water Use Reduction, 30% Reduction

W 2.3 Water Use Reduction, 35% Reduction

W 2.4 Water Use Reduction, 40% Reduction



## Energy

### Commissioning

E 1.1P Fundamental Commissioning of the Building Energy Systems

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### Refrigerant Management

E 2.1P Fundamental Refrigerant Management

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E 2.2 Enhanced Refrigerant Management

---

### Verification

E 3.1R Measurement & Verification

---

E 3.2R Energy Management System Controls, HVAC and Hot Water

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### Energy Efficiency

E 4.1P Minimum Energy Performance

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### HVAC Optimization

E 4.2R HVAC System Sizing, Avoid Oversizing

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### Power

E 5.1R Green Power

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## Materials Credits

### Efficient Material Use

M 1.1P Storage & Collection of Recyclables

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M 1.2 Building Reuse, Maintain 75% of Existing Walls, Floors & Roof

---

M 1.3 Building Reuse, Maintain 95% of Existing Walls, Floors & Roof

---

M 1.4 Building Reuse, Maintain 50% of Interior Non-Structural Elements

---

M 1.5R Construction Waste Management, Divert 50% from Disposal

---

M 1.6R Construction Waste Management, Divert 75% from Disposal

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M 1.7 Construction Waste Management, Divert 95% from Disposal

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Sustainable Materials

M 2.1R Recycled Content, 10% (post-consumer + ½ pre-consumer)

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M 2.2 Recycled Content, 20% (post-consumer + ½ pre-consumer)

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M 2.3 Regional Materials, 10% Extracted, Processed & Manufactured Regionally

---

M 2.4 Regional Materials, 20% Extracted, Processed & Manufactured Regionally

---

M 2.5R Wallboard & Roof Deck Products, Mold Resistance

---

## Indoor Environmental Quality Credits

IAQ Post-occupancy

Q 1.1P Minimum IAQ Performance

---

Q 1.2R Outdoor Air Delivery Monitoring

---

IAQ Pre-occupancy

Q 2.1R Construction IAQ Management Plan, During Construction

---

Q 2.2R Construction IAQ Management Plan, Before Occupancy

---

Low-Emitting Materials

Q 3.1R Low-Emitting Materials, Adhesives & Sealants

---

Q 3.2R Low-Emitting Materials, Paints & Coatings

---

Q 3.3R Low-Emitting Materials, Flooring Systems

---

Q 3.4R Low-Emitting Materials, Comp Wood & Agrifiber Products

---

Pollution Source Control

Q 4.1R Indoor Chemical & Pollutant Source Control

---

Q 4.2P Electric Ignition Stoves

---

Q 4.3P Post Construction Indoor Air Quality

---

Controllability of Systems

Q 5.1R Controllability of Systems, Lighting

---

Q 5.2R Controllability of Systems, Thermal Comfort

---

Thermal Comfort

Q 6.1R Thermal Comfort, Design

---

Lighting and Views

Q 7.1 Daylight & Views, Daylight 75% of Classrooms

---

Q 7.2 Daylight & Views, Daylight 90% of Classrooms

---

Q 7.3 Daylight & Views, Daylight for 75% of Other Spaces

---

Q 7.4 Daylight & Views, Views

---

Q 7.5 Visual Performance, Artificial Direct-Indirect Lighting

---

Acoustics

Q 8.1P Minimum Acoustical Performance

---

Q 8.2 Enhanced Acoustical Performance & Sound Isolation for Special Spaces

---

Q 8.3R Acoustic Windows

---

## Additional Credits

Required Support

A 1.1R LEED® Accredited Professional

---

A 1.2 Innovation or Exemplary Performance

---

A 1.3 Innovation or Exemplary Performance

---

Optional - Site Impact

A 2.1 Heat Island Effect, Non-Roof

---

A 2.2 Stormwater Design, Quantity Control

---

A 2.3 Active Design in a School Environment

---

Optional - Energy

A 3.1 Enhanced Commissioning

---

A 3.2 Optimize Energy Performance

---

A 3.3 On-Site Renewable Energy

---

A 3.4 Enhanced Energy Management System Controls, HVAC and Hot Water Systems

---

Optional - IEQ

A 4.1 Low-Emitting Materials, Ceiling and Wall Systems

---

Optional - Education

A 5.1 The School Building as a Teaching Tool

---

## **IV. Supporting Credit Documentation**

## **S1.2R – Site Selection**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Fish, Wildlife & Marine Resources**  
**New York Natural Heritage Program**  
625 Broadway, 5<sup>th</sup> Floor, Albany, New York 12233-4757  
**Phone:** (518) 402-8935 • **Fax:** (518) 402-8925  
**Website:** [www.dec.ny.gov](http://www.dec.ny.gov)



November 18, 2016

Lauren Campfield  
Vidaris, Inc.  
360 Park Avenue South, 15th Floor  
New York, NY 10010

Re: PS 129Q, 128-02 7th Avenue, Flushing  
Town/City: City of New York. County: Queens.

Dear Lauren Campfield:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities at your site or in its immediate vicinity.

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at [www.dec.ny.gov/about/39381.html](http://www.dec.ny.gov/about/39381.html).

Sincerely,

A handwritten signature in dark ink that reads "Andrea Chaloux". The signature is written in a cursive, flowing style.

Andrea Chaloux  
Environmental Review Specialist  
New York Natural Heritage Program



November 16, 2016

NY Natural Heritage Program-Information Services  
NYS DEC  
625 Broadway, 5<sup>th</sup> Floor  
Albany, NY 12233-4757

RE: PS 129Q Information Request

To Whom It May Concern:

This request to the NY Natural Heritage Program is for information required under the New York City School Construction Authority and the New York City Department of Education NYC Green Schools Program. Site specific documentation from the NY Natural Heritage Program on whether the project site is the habitat for threatened or endangered species is required by the project team.

PS 129Q is an existing school located at 128-07 7<sup>th</sup> Avenue in Queens, NY, 11356. The following page shows a map of the developed project site.

Please contact me if there is any additional information required to fulfill this request. Thank you.

Best regards,

Lauren Campfield  
Green Analyst  
Vidaris, Inc.





128-02 7th Ave

Flushing, NY 11356

Directions

- ★

SAVE
- 📍

NEARBY
- 📱

SEND TO YOUR PHONE
- 🔗

SHARE

📍

Add a missing place

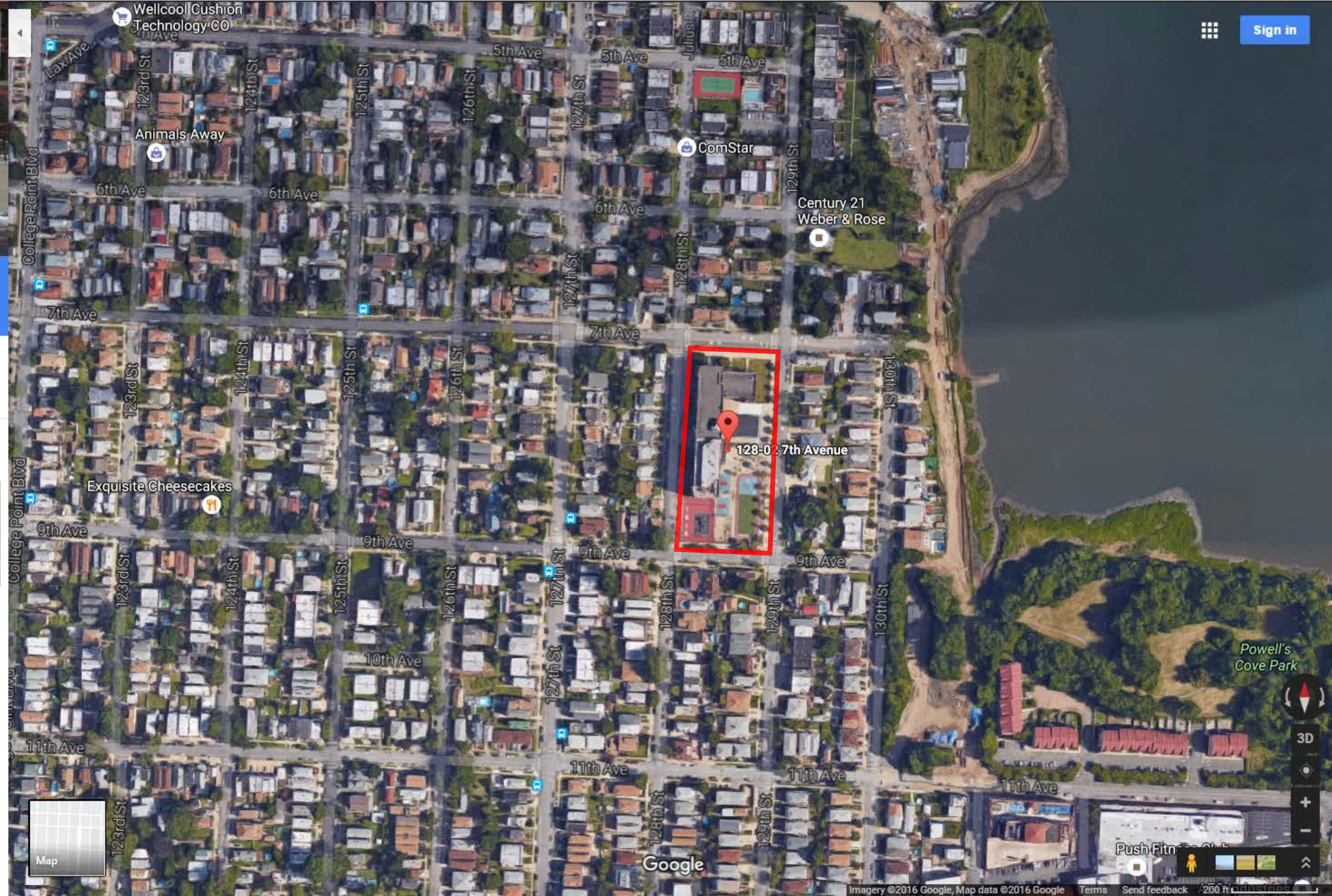


At this location

P.S. 129 Patricia Larkin

4.6 ★★★★★ (14)

School · 7th Ave



Sign in



3D



Push Fit







U.S. Fish &amp; Wildlife Service

Search ECOS



# ECOS Environmental Conservation Online System

Conserving the Nature of America

[ECOS](#) / [Species Reports](#) / Species By County Report

## Species By County Report

The following report contains Species that are known to or are believed to occur in this county. Species with range unrefined past the state level are now excluded from this report. If you are looking for the Section 7 range (for Section 7 Consultations), please visit the [IPaC](#) application.

County: Queens, New York



Need to contact a FWS field office about a species? Follow [this link](#) to find your local FWS Office.

Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status	Rec Pla Sta
Birds	Piping Plover ( <i>Charadrius melodus</i> )	except Great Lakes watershed	Threatened	Office of the Regional Director	<a href="#">Piping Plover Atlantic Coast Population Revised Recovery Plan</a>	<a href="#">Implementation Progress</a>	Fin: Rev 1
Birds	Piping Plover ( <i>Charadrius melodus</i> )	except Great Lakes watershed	Threatened	Office of the Regional Director	<a href="#">Volume I: Draft Revised Recovery Plan for the Northern Great Plains Piping Plover (Charadrius melodus)</a>	Recovery efforts in progress, but no implementation information yet to display.	Dra Rev 1
Birds	Red knot ( <i>Calidris canutus rufa</i> )	Wherever found	Threatened	New Jersey Ecological Services Field Office			

Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status	Rec Pla Sta
Mammals	Northern Long-Eared Bat ( <i>Myotis septentrionalis</i> )	Wherever found	Threatened	Twin Cities Ecological Services Field Office			
Reptiles	Hawksbill sea turtle ( <i>Eretmochelys imbricata</i> )	Wherever found	Endangered	North Florida Ecological Services Field Office	<a href="#">Recovery Plan for the Hawksbill Turtle in the U.S. Caribbean, Atlantic and Gulf of Mexico</a>	<a href="#">Implementation Progress</a>	Final Rev 1
Reptiles	Hawksbill sea turtle ( <i>Eretmochelys imbricata</i> )	Wherever found	Endangered	North Florida Ecological Services Field Office	<a href="#">Recovery Plan for U.S. Pacific Populations of the Hawksbill Turtle</a>	<a href="#">Implementation Progress</a>	Final Rev 1
Reptiles	Leatherback sea turtle ( <i>Dermochelys coriacea</i> )	Wherever found	Endangered	North Florida Ecological Services Field Office	<a href="#">Recovery Plan for Leatherback Turtles in the U.S. Caribbean, Atlantic, and Gulf of Mexico</a>	<a href="#">Implementation Progress</a>	Final Rev 1
Reptiles	Leatherback sea turtle ( <i>Dermochelys coriacea</i> )	Wherever found	Endangered	North Florida Ecological Services Field Office	<a href="#">Recovery Plan for U.S. Pacific Populations of the Leatherback Turtle</a>	<a href="#">Implementation Progress</a>	Final Rev 1

[Services](#)[News](#)[Government](#)[Local](#)[Location](#)[Translate](#)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## Environmental Resource Mapper

Base Map: Topographical



Search

Tools

### Layers and Legend

☒ All Layers

☒ Unique Geological Features

☒ Waterbody Classifications for Rivers/Streams

☒ Waterbody Classifications for Lakes

☒ State Regulated Freshwater Wetlands

State Regulated Wetland Checkzone

☒ Significant Natural Communities

Natural Communities Near This Location

☒ Rare Plants and Rare Animals

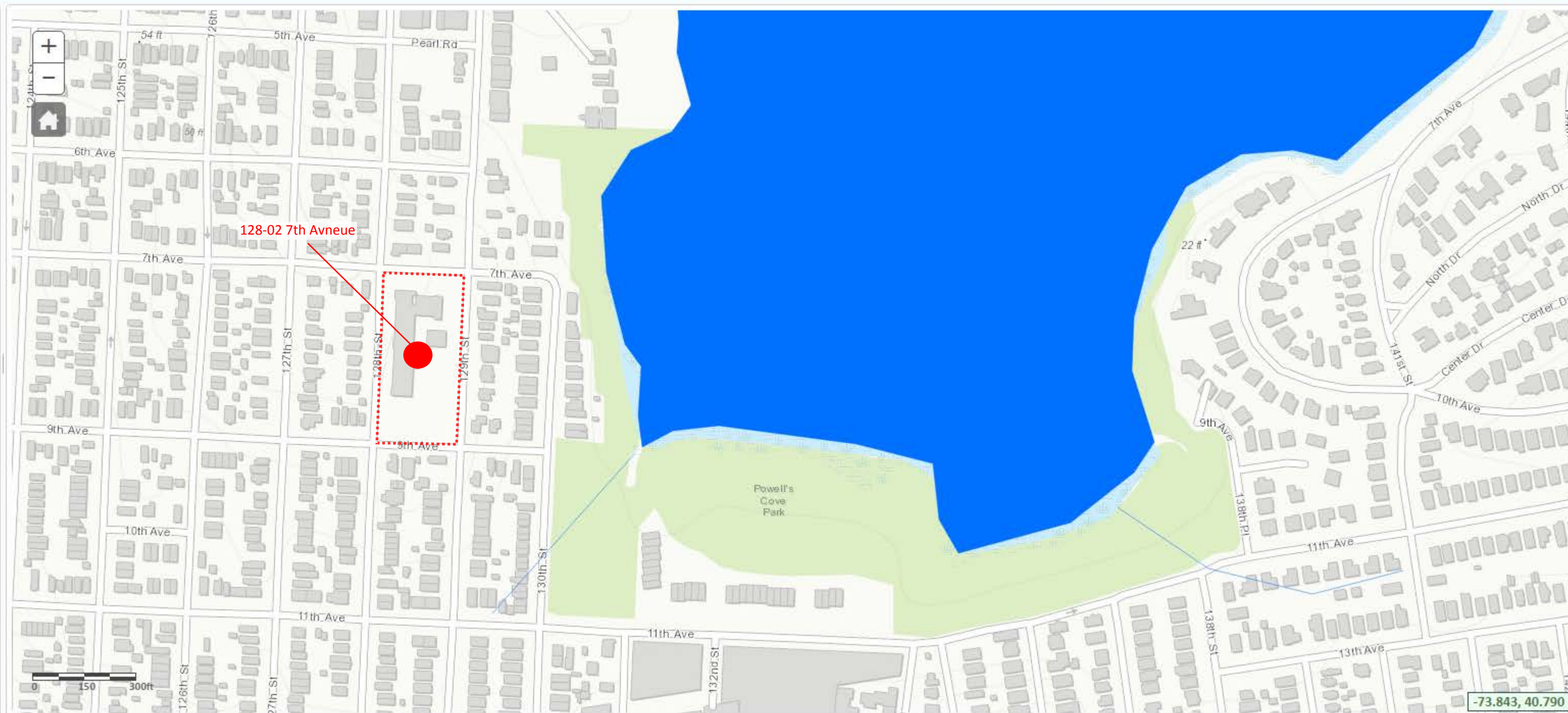
Other Wetland Layers

Reference Layers

Tell Me More...

Need A Permit?

Contacts

[Agencies](#)  
[Services](#)[App Directory](#)[Counties](#)[Events](#)[Programs](#)





Services

News

Government

Local

Location

Translate

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# Environmental Resource Mapper

Base Map: Topographical



Search

Tools

Layers and Legend

## Other Wetland Layers

☒ National Wetlands Inventory

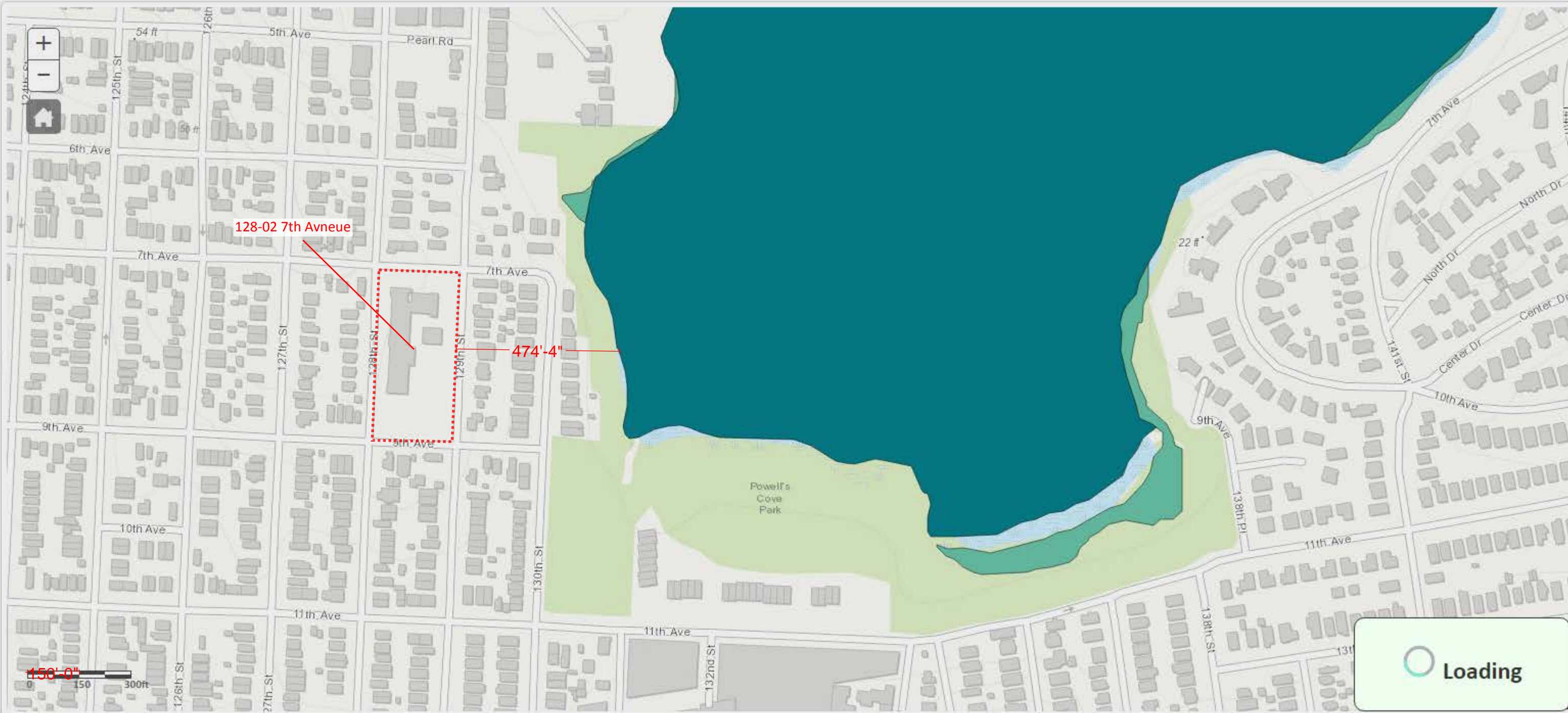
- ☒ Estuarine and Marine Deepwater
- ☒ Estuarine and Marine Wetland
- ☒ Freshwater Emergent Wetland
- ☒ Freshwater Forested/Shrub Wetland
- ☒ Freshwater Pond
- ☒ Lake
- ☒ Other
- ☒ Riverine

Reference Layers

Tell Me More...

Need A Permit?

Contacts



Agencies  
Services

App Directory

Counties

Events

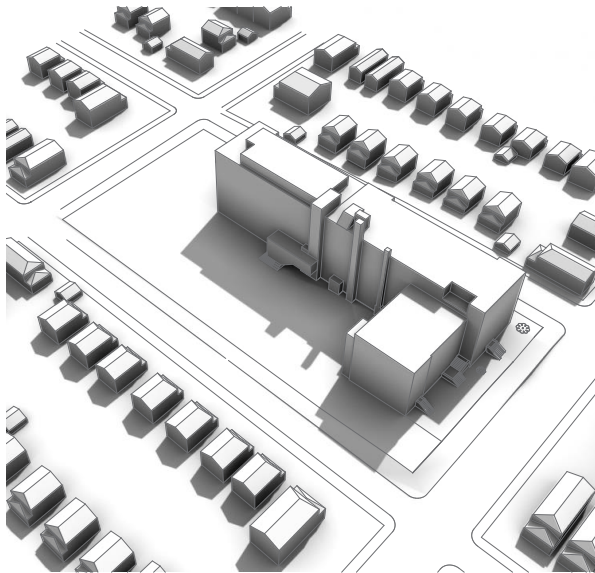
Programs

## **S1.3 – Sustainable Site & Building Layout**

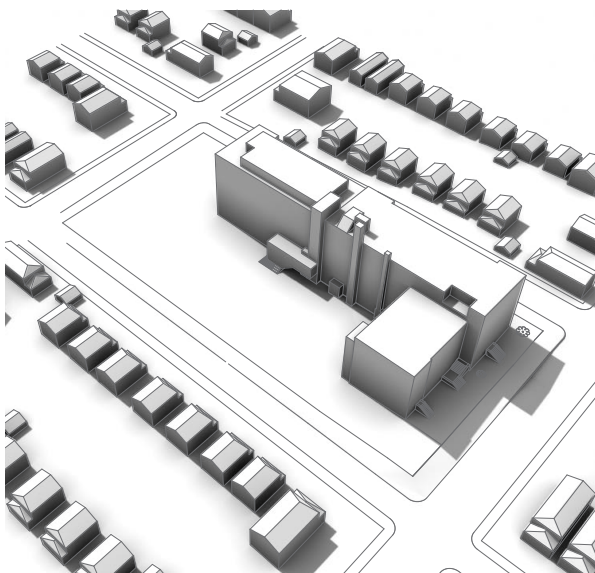
# Solar study of shade from surrounding buildings on site

## Sun & Shade

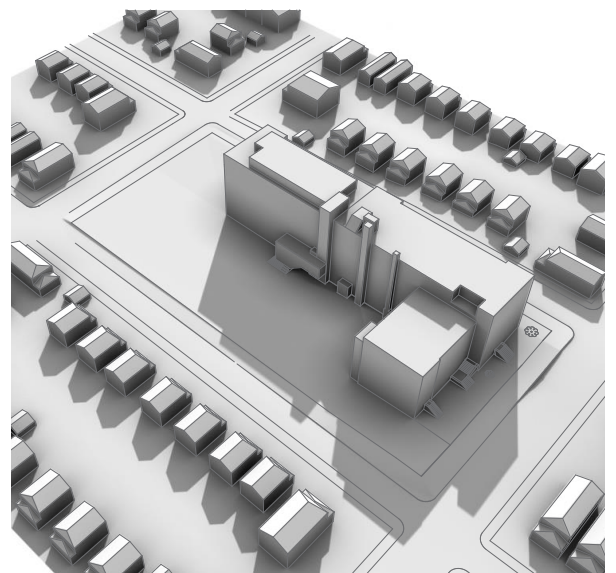
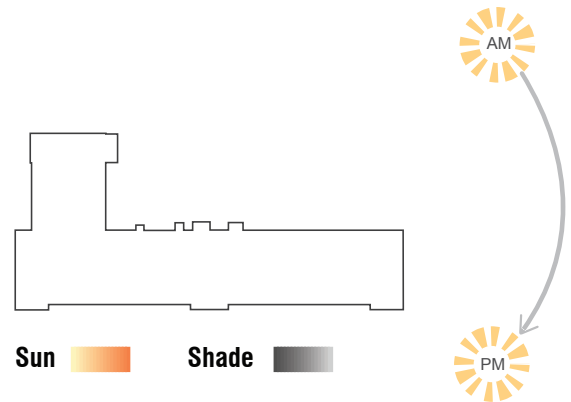
Fall Equinox



9 am



12 pm

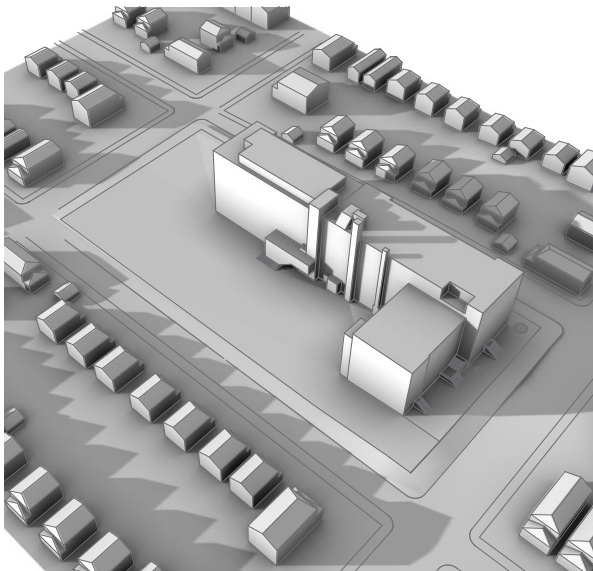


3 pm

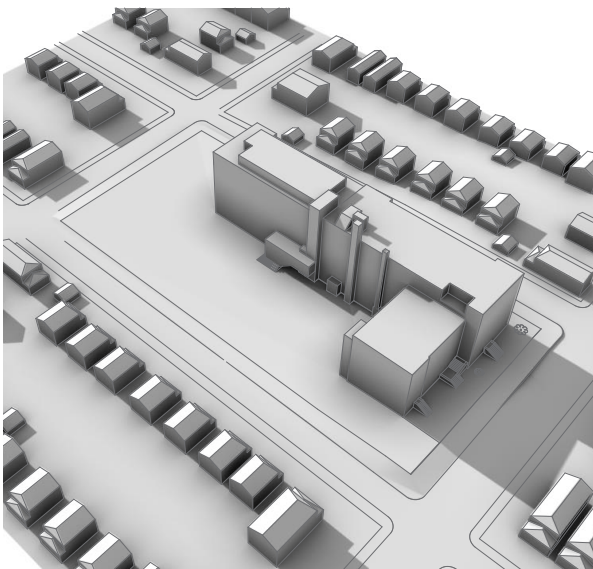


# Sun & Shade

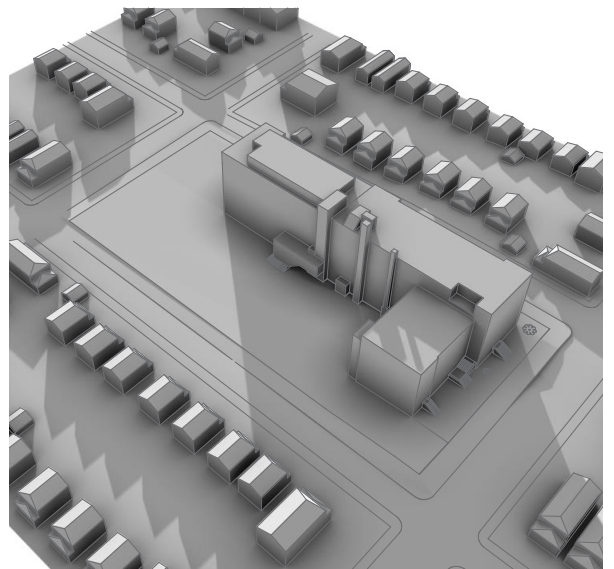
Winter Solstice



9 am



12 pm

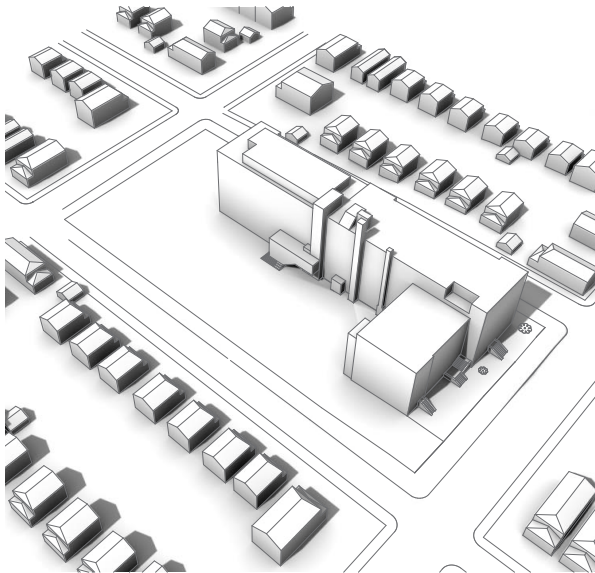


3 pm

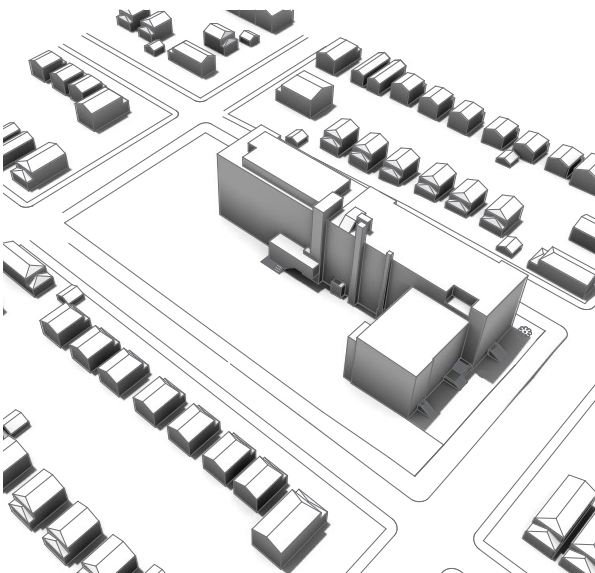


# Sun & Shade

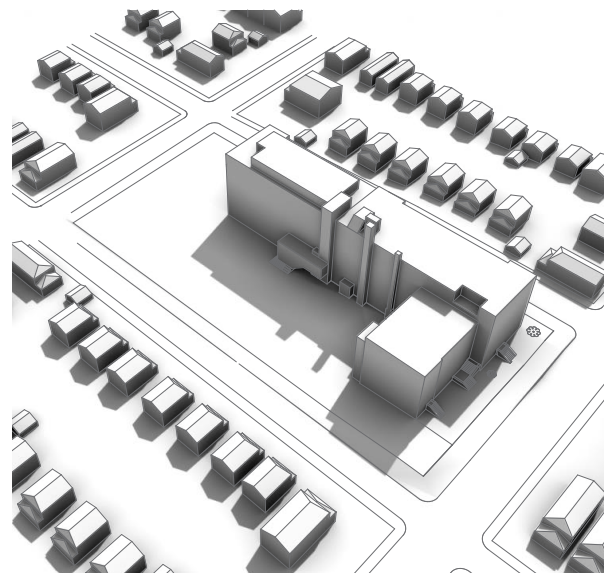
## Summer Solstice



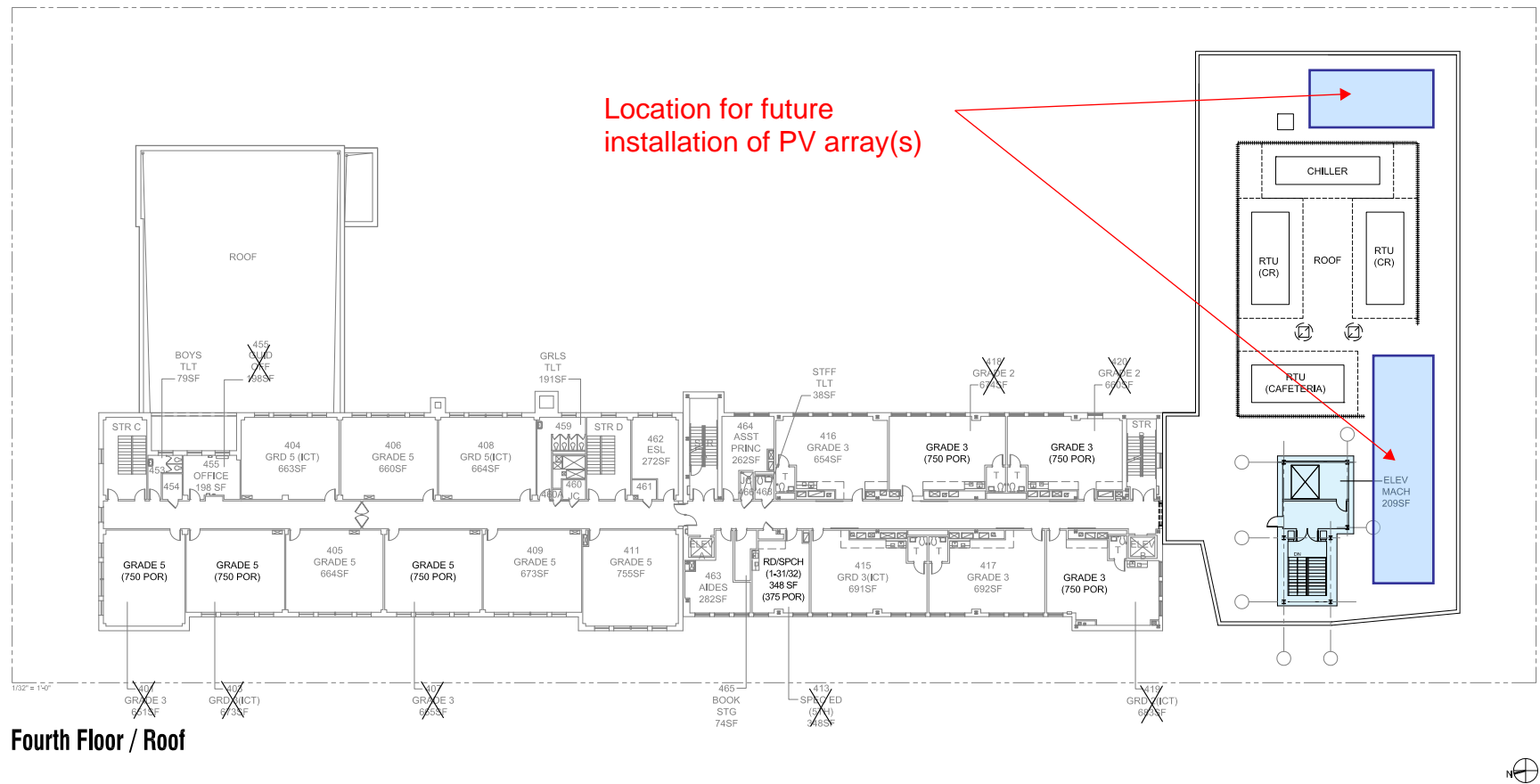
9 am



12 pm



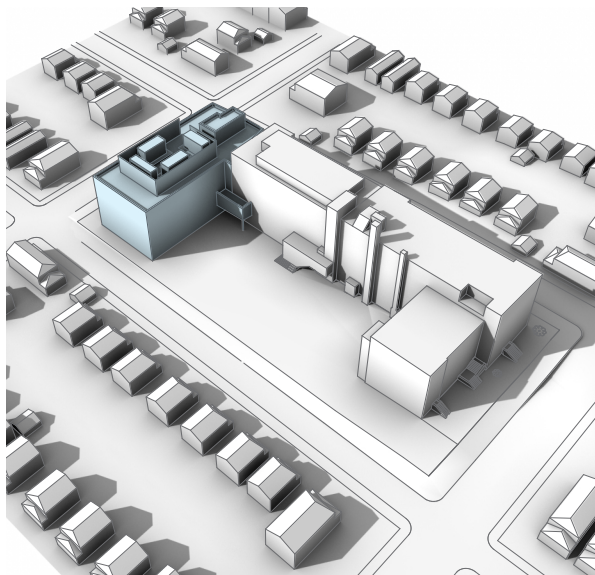
3 pm



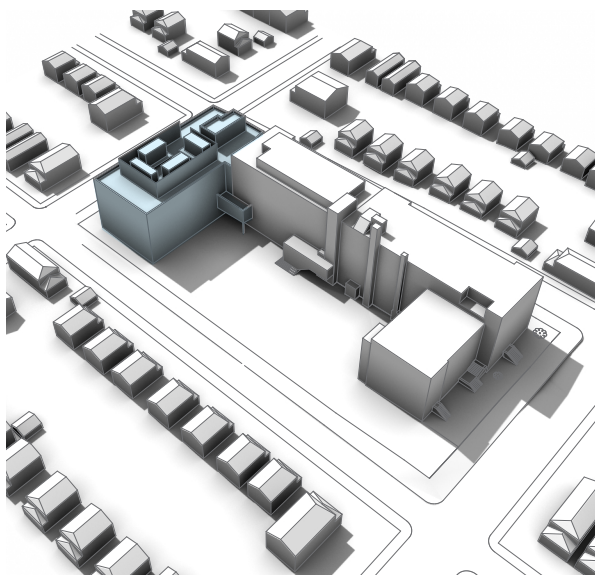
# Solar study of shade from addition on surrounding buildings

## Sun & Shade

Fall Equinox

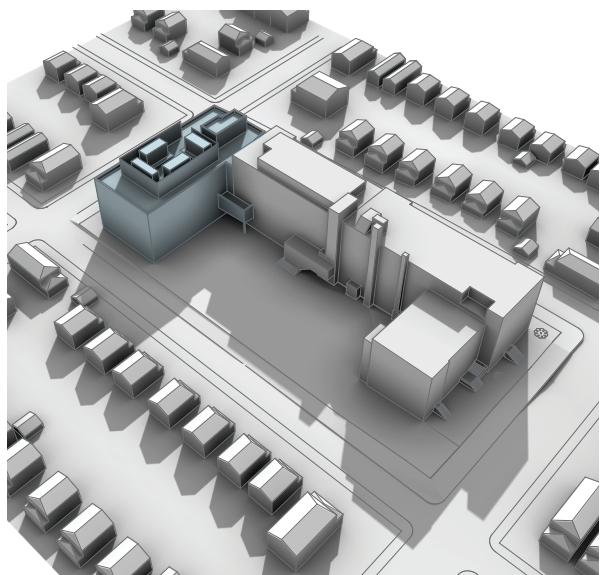
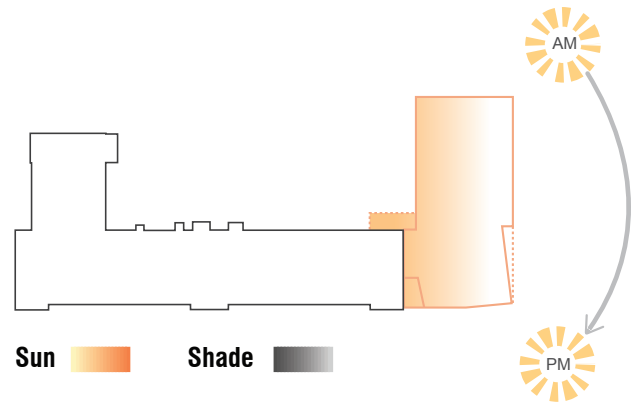


9 am



12 pm

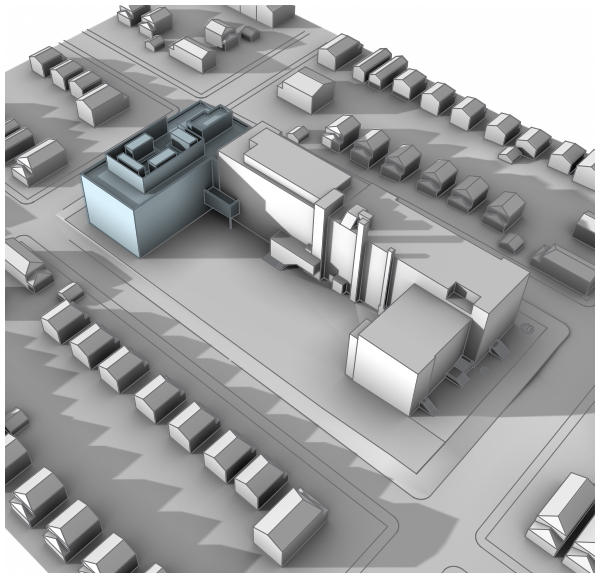
PS 129Q Addition



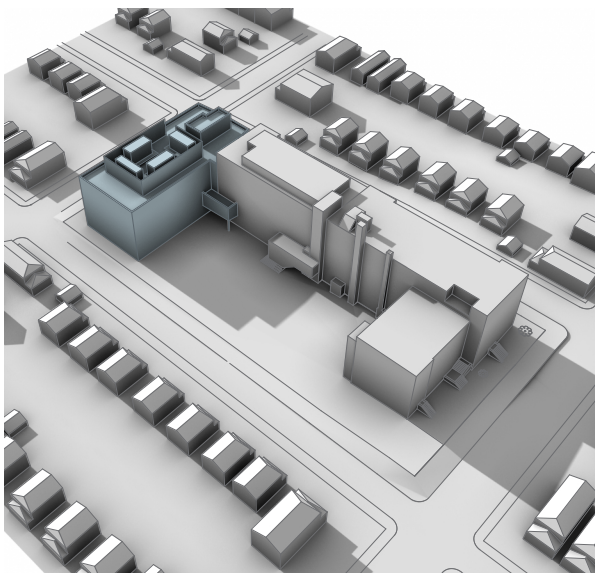
3 pm

# Sun & Shade

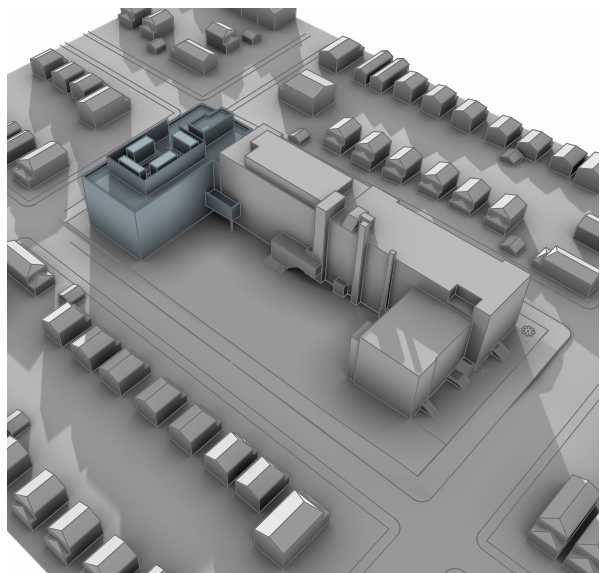
Winter Solstice



9 am



12 pm

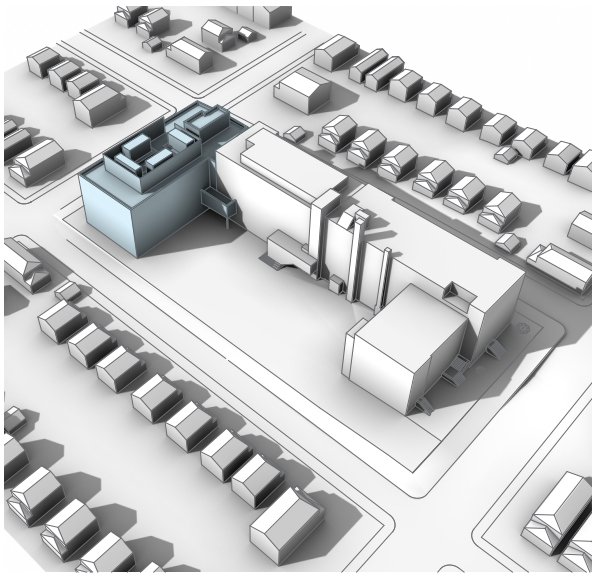


3 pm

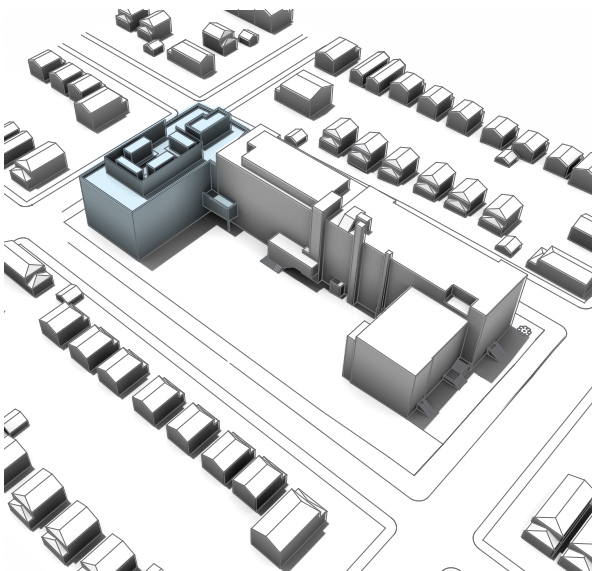


# Sun & Shade

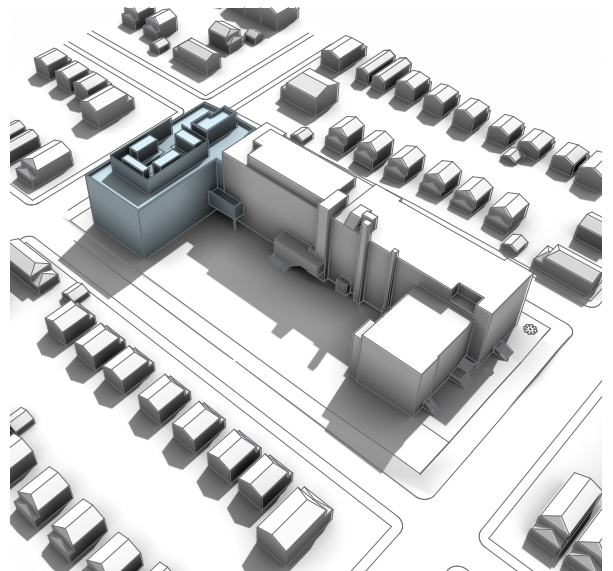
Summer Solstice



9 am



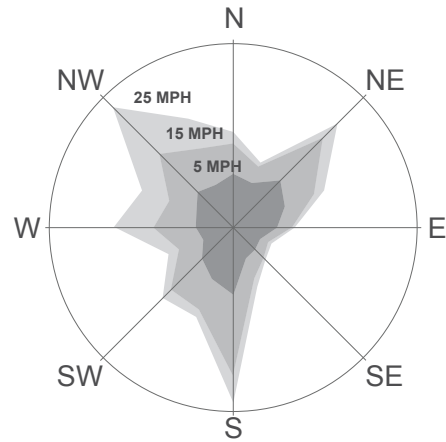
12 pm



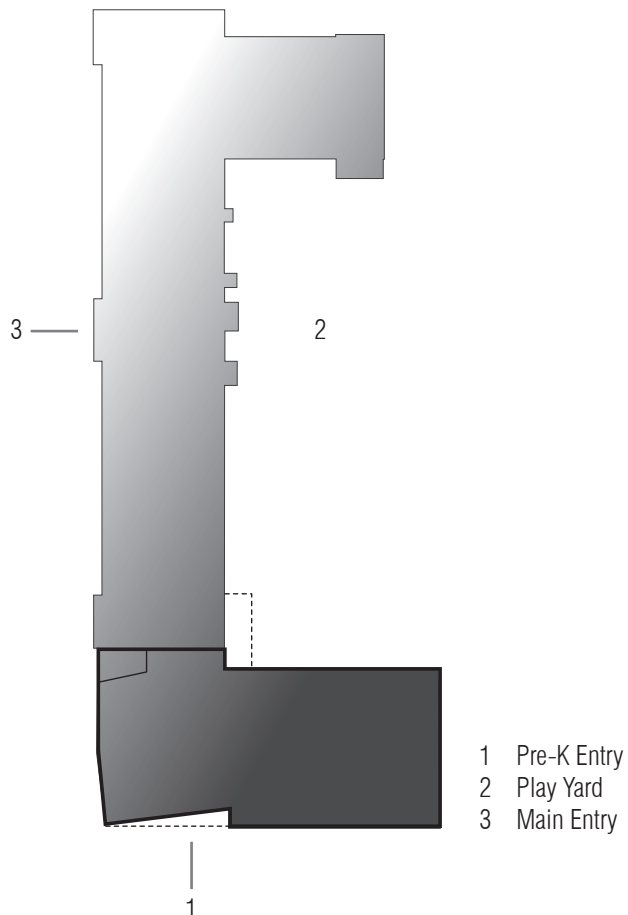
3 pm

# Wind

The existing building provides shelter from the prevailing winds coming from the north/west; the proposed addition will have minimal impact on this aspect of the site environmental conditions.

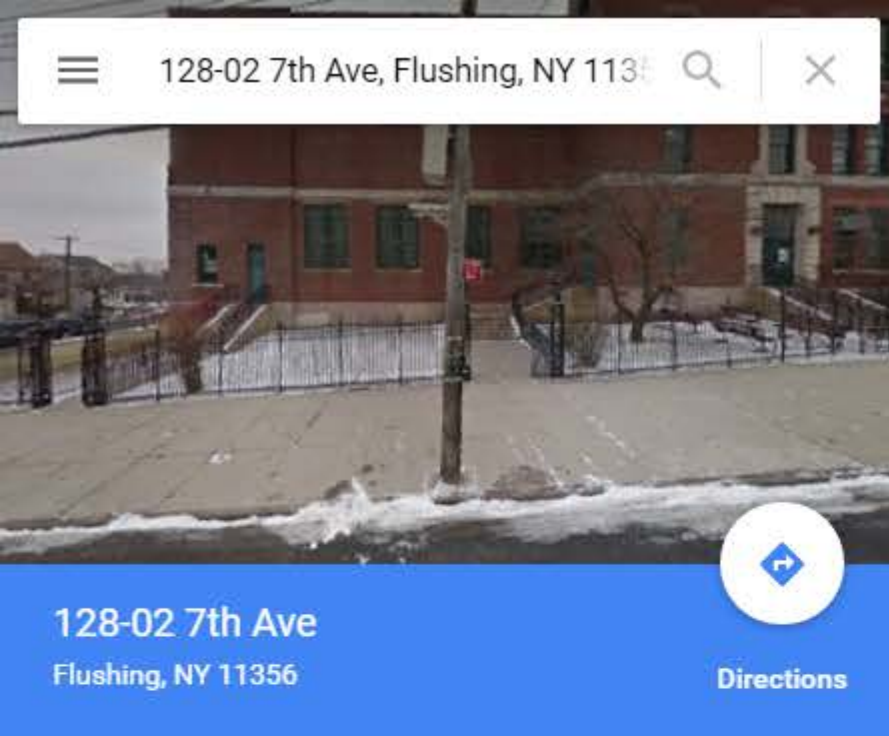


MEAN WIND SPEED  
SOURCE: WESTERN REGIONAL CLIMATE CENTER  
LAGUARDIA AIRPORT - 2012 STATISTICAL DATA



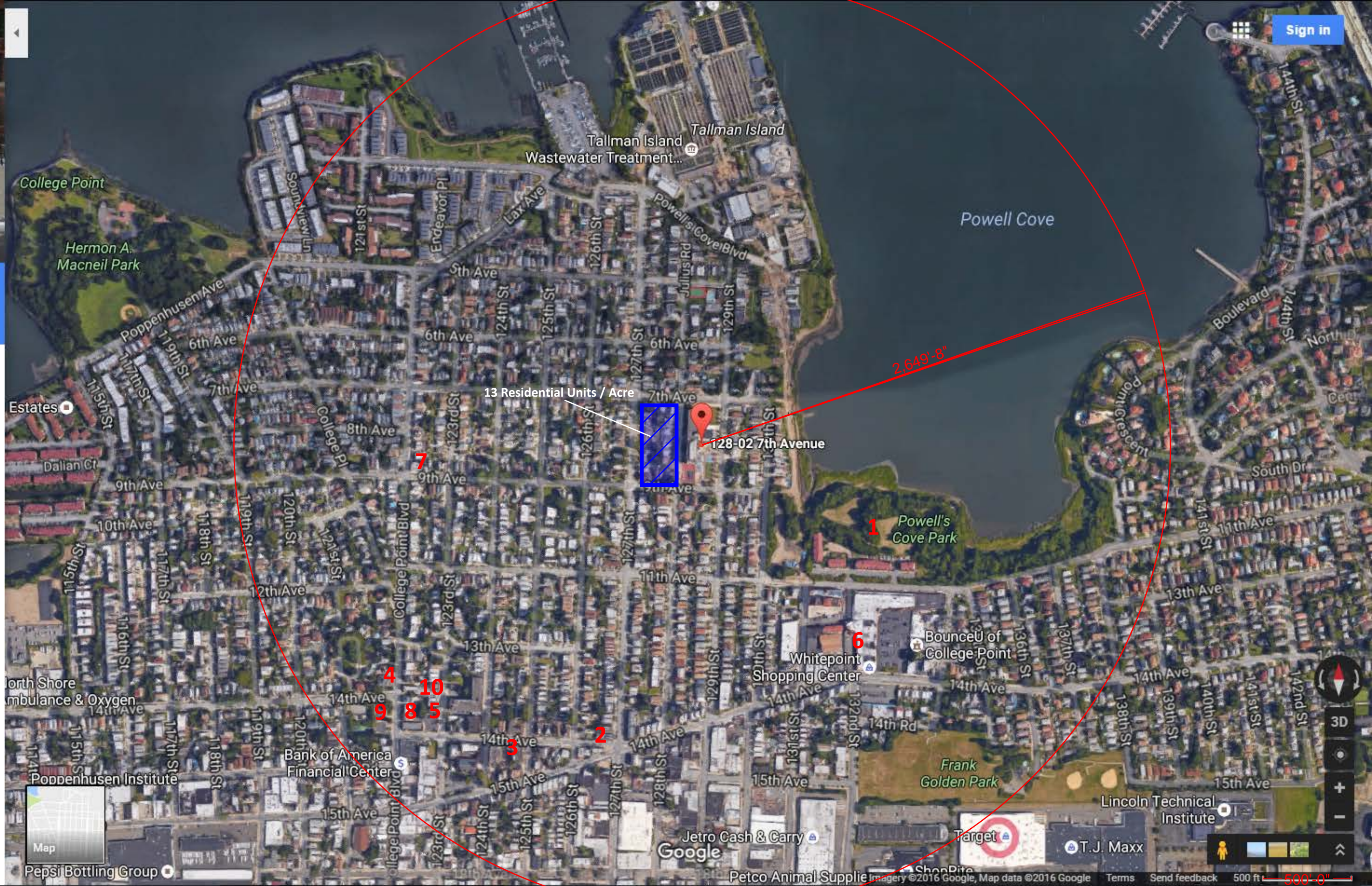
## **S 1.4 - Development Density & Community Connectivity**





## S1.4 Community Connectivity

1. Powell's Cove Park
2. Danny's Steak House & Oyster Bar
3. New York League for Early Learning Day Care Center
4. Poppenhusen Queens Public Library
5. Hanac Angelo Petromelis Neighborhood Senior Care
6. Chase Bank
7. Boulevard Laundry
8. Walgreens Pharmacy
9. Unique Beauty Salon
10. St. Paul's Episcopal Church





## **S 1.5R – Joint Use of Facilities, Community Access**





# Site Plan

The scheme places the addition in the southwestern portion of the lot offering the opportunity to provide street frontage along 128th Street and 9th Avenue. The building is conceived as a natural extension of the existing school completing its footprint into a U-shape that develops along the street line.

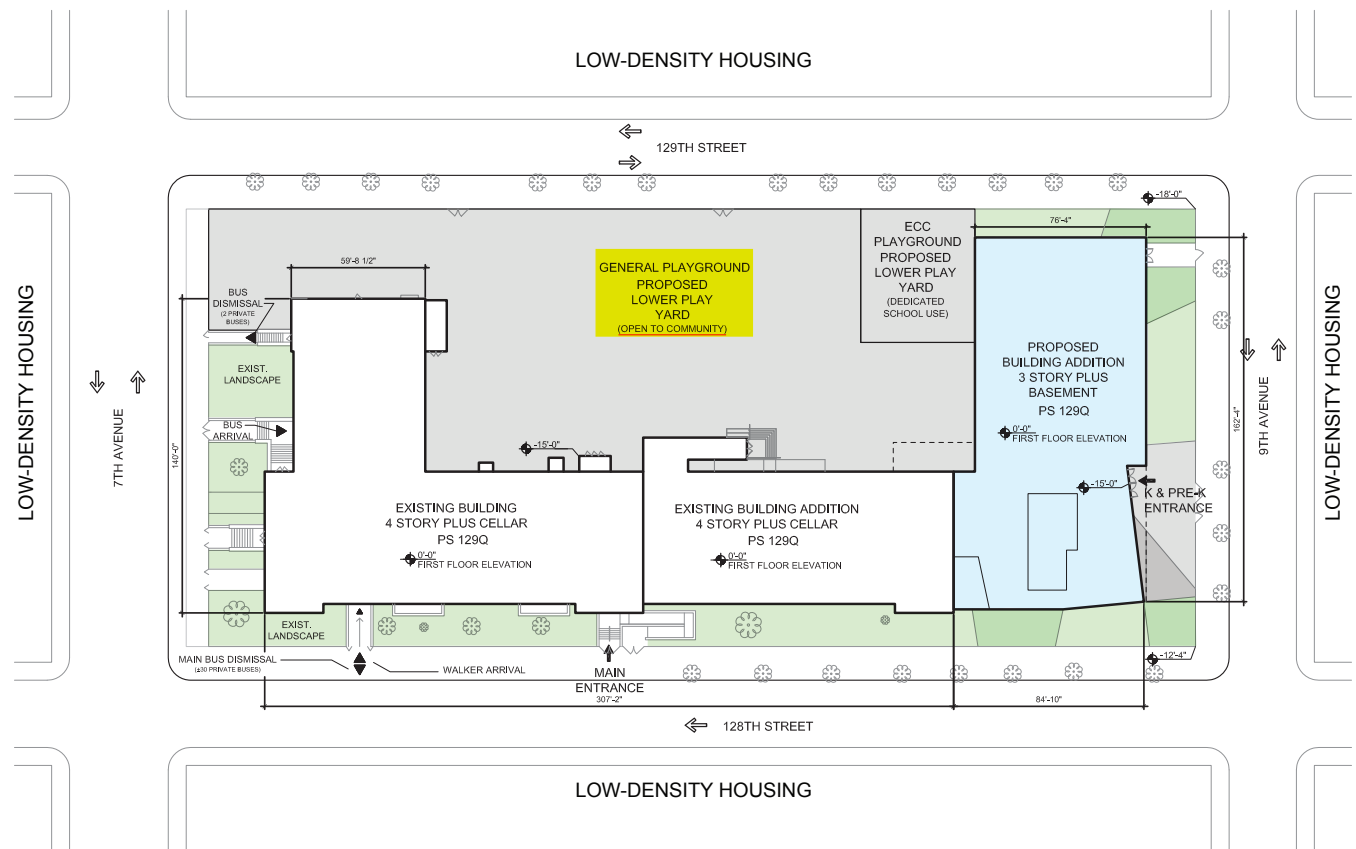
The footprint of the addition is set back from the property line along all sides, providing a front yard surrounding its entire perimeter.

The layout of the site generates a unified playground located at the heart of the school, contributing to open views across the courtyard and excellent daylight conditions within the building and within the open yard area.

The landscape design aims to extend the gestures of the elevations onto the ground and efficiently provides the required square footage of hard surface area.



Urban Context



## **S 1.6R – Environmental Site Assessment**

**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
PLAY AREAS AT PUBLIC SCHOOL 129  
128-02 7th AVENUE  
QUEEENS, NEW YORK 11356**

---

## **10.0 CONCLUSIONS AND RECOMMENDATIONS**

GEI has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 and the requirements of the NYCSCA. Any additions to, exceptions to, or deletions from this practice are described in Section 2.0 of this report.

This Phase I ESA has revealed the following RECs and/or VECs associated with the Site:

### On-Site RECS/VECS

- Potential presence of historic fill of unknown origin.
- Potential presence of demolition debris and buried structures.

### Off-Site RECS/VECS

- No off-Site RECs/VECs were revealed for the surrounding area of the Site.

This Phase I ESA has revealed the following environmental concerns associated with the Site:

- Suspect ACM may be present in the adjacent school building. If the proposed addition is connected to the existing school building, the suspect ACM is considered an environmental concern.
- Suspected LBP on interior and exterior surfaces of the adjacent school building were observed during the Site inspection. If the proposed addition is connected to the existing school building, the suspect LBP is considered an environmental concern. LPB is also a concern for the painted concrete surfaces within the play yards of the Site.
- Exterior caulking on the school building was observed during the Site reconnaissance. The potential presence of PCB-containing caulking is considered an environmental concern.

## **Recommendations**

Based on the findings of the Phase I ESA, GEI recommends that a Phase II ESI, consisting of a geophysical survey, and the collection and laboratory analysis of soil, soil vapor, and groundwater samples to determine whether the identified RECs, and/or VECs have affected the suitability of the Site for the construction of a proposed addition to the P.S. 129 school. In addition, GEI recommends that any suspect ACM, LBP and PCB-containing materials, where existing building components will be affected by the construction of the proposed addition, be identified prior to and properly managed during such activities.

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Phase II ESI, GEI concludes the following:

- Subsurface soil generally consisted of fill material (sand and gravel) to approximately 1.25 to 2.5 feet below grade, underlain by apparent native brown fine to coarse sand, and silt and gravel to 15 feet, the bottom of the deepest boring.
- No anomalies indicative of underground storage tanks were identified during the geophysical survey.
- No VOCs were detected in soil, except for acetone, which is attributed to potential laboratory contamination.
- No SVOCs, PCBs, pesticides, herbicides, DRO or GRO were detected in any of the soil samples.
- Cyanide and hexavalent chromium were not detected in the soil samples. Thirteen of the 18 metals analyzed were detected in one or more of the samples. No metals were detected at concentrations exceeding their respective Unrestricted Use SCOs.

The Site is suitable for use as an addition to the public school facility. However, GEI recommends the following:

- As a standard NYCSCA practice, a soil vapor barrier should be integrated into the new addition design, including the integration with any proposed damp-proofing or water proofing components.
- All material excavated during construction activities should be properly characterized prior to transportation to an off-Site disposal facility, including collection and analysis of additional samples as required by the contractor-selected disposal facilities.
- Fill material should be evaluated for the presence of ACM. In addition, any suspect ACM, LBP and/or PCB-containing materials affected by the proposed demolition or construction work should be identified prior to and properly managed during construction activities.
- After the proposed new building and grounds are constructed, if exposed soil (landscaped areas) is incorporated into the development of the Site, a minimum of two feet of environmentally clean fill should be placed over existing soil in these areas.

A description of the recommended remediation and cost estimate is included in Appendix G.

## **S 2.1 – Alternative Transportation, Public Transportation Access**





127 St/9 Av  
Bus Station



Directions



SAVE



NEARBY



SEND TO YOUR  
PHONE



SHARE



Queens, NY 11356



Suggest an edit



Buses



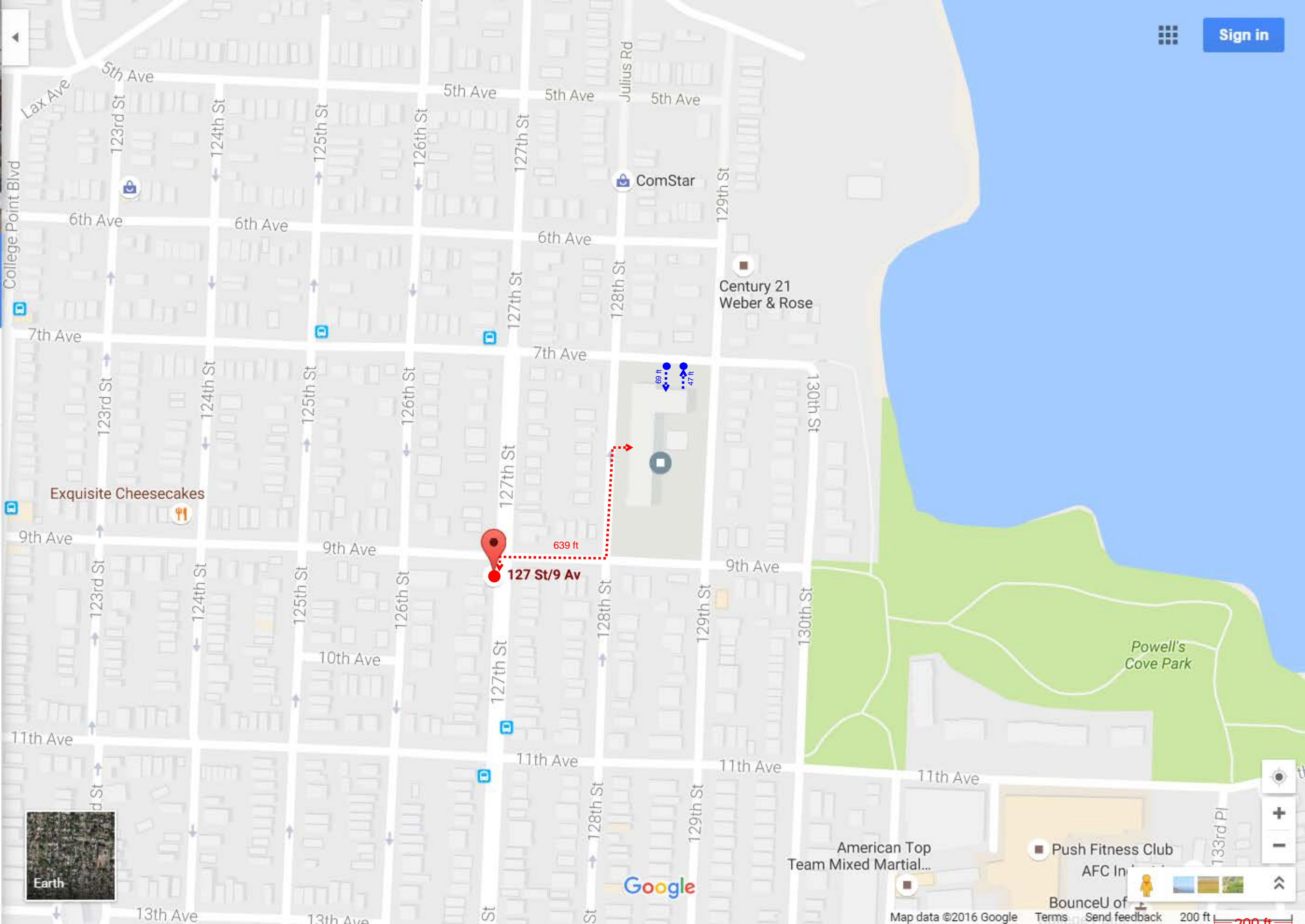
MTA Q25 Bus



Private Bus Drop-Off and Pick-Up  
Location on 7th Avenue



Add a photo



**PS 129**[Print](#)

OPT Code: 25129

ATS Code: 25Q129

Building Code: Q129

Public School

128-02 7th Avenue, Queens, NY, 11356

Borough: Queens

Borough Field Support Director (Code) :  
PENDERGAST, LAWRENCE(QFSN)

Phone: (718) 353-3150

District: 25

**School Schedule**

General Education Students *				
Days	Student Schedule		Teacher Schedule	
	IN	OUT	IN	OUT
Monday	08:00	02:20	08:00	03:40
Tuesday	08:00	02:20	08:00	03:35
Wednesday	08:00	02:20	08:00	02:20
Thursday	08:00	02:20	08:00	02:20
Friday	08:00	02:20	08:00	02:20
Special Education Students *				
Days	Student Schedule		Teacher Schedule	
	IN	OUT	IN	OUT
Monday	08:00	02:20	08:00	03:40
Tuesday	08:00	02:20	08:00	03:35
Wednesday	08:00	02:20	08:00	02:20
Thursday	08:00	02:20	08:00	02:20
Friday	08:00	02:20	08:00	02:20

\* OPT has approved the above schedule for yellow school bus service to and from this school. Students who do not take the school bus may begin and be dismissed from school at different times.

**School Bus Routes and Stops:****General Education Stop-to-School Busing:**[Click Here To See All General Education Stops](#)**Morning****Afternoon**

Number of Routes: 3

Number of Stops: 21

Number of Routes: 4

Number of Stops: 19

Route	Schedule	Company	Phone
<a href="#">Q2576</a>	Morning	Lorissa Bus Service Inc. (LS)	(718) 276-7100
<a href="#">Q2579</a>	Morning	Lorissa Bus Service Inc. (LS)	(718) 276-7100
<a href="#">Q3310</a>	Morning	Logan Bus Company Inc. (LG)	(718) 738-7373
<a href="#">Q9567</a>	Afternoon	Lorissa Bus Service Inc. (LS)	(718) 276-7100
<a href="#">Q9579</a>	Afternoon	Lorissa Bus Service Inc. (LS)	(718) 276-7100
<a href="#">Q9587</a>	Afternoon	Lorissa Bus Service Inc. (LS)	(718) 276-7100
<a href="#">Q9591</a>	Afternoon	Lorissa Bus Service Inc. (LS)	(718) 276-7100

**Special Education Door-to-Door Busing:**

Number of Routes: 1

Route	Students	Vehicle	Company	Phone
<a href="#">Q419</a>	9	Mini Wagon	Hoyt Transportation Corp. (AP)	(718) 665-3019

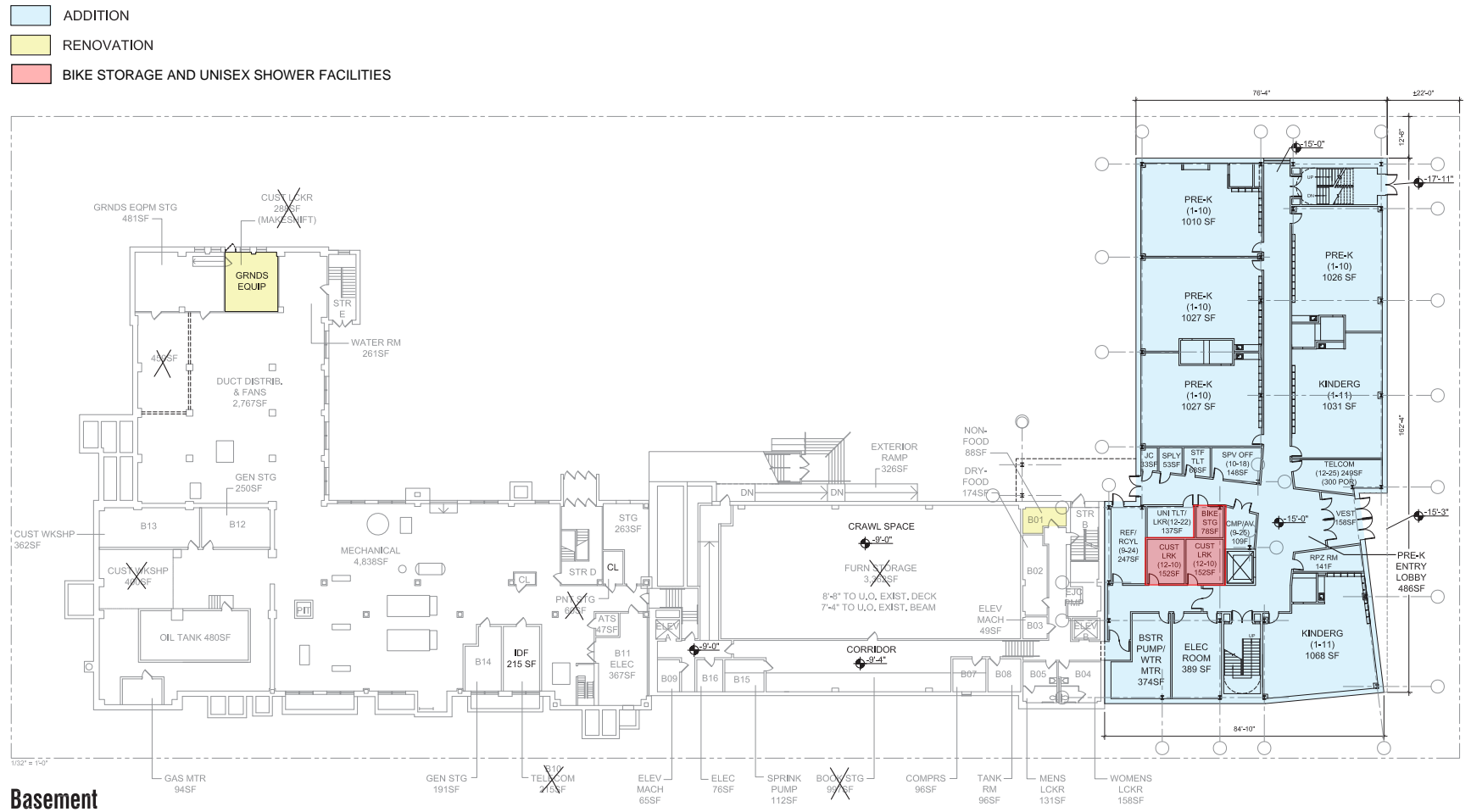
**MetroCards Issued:****Half Fare**[16](#)**Full Fare**[13](#)

[Schools Can Click Here For Route Information](#)

*School transportation data is refreshed daily, interday changes may not be shown*

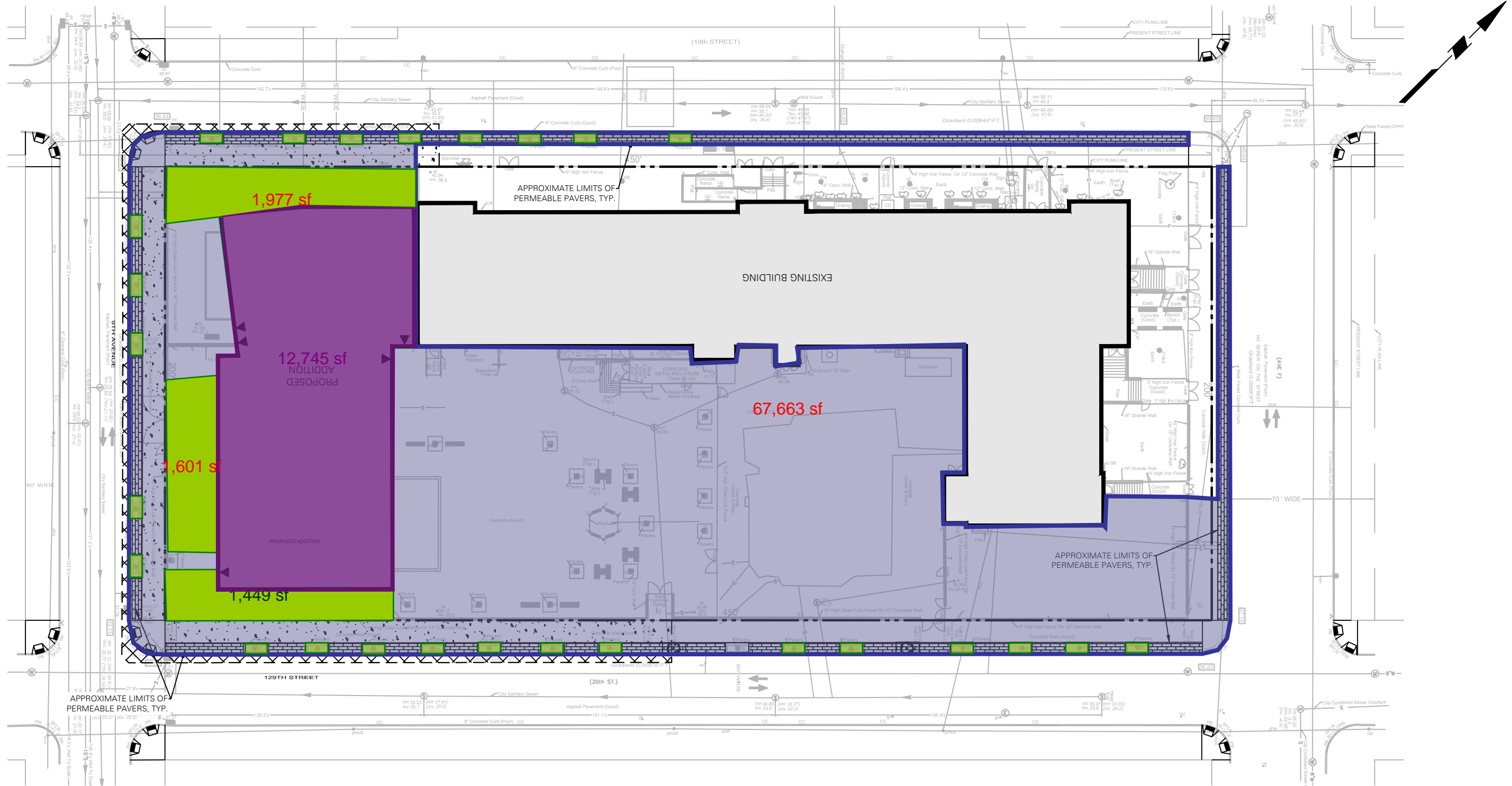
**If any information is incomplete or incorrect, call OPT Customer Service at (718)392-8855**

## **S 2.2 – Alternative Transportation, Bicycle Storage & Changing Rooms**





## **S 3.2- Site Development: Maximize Open Space**




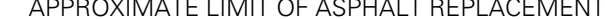




## BUILDERS PAVEMENT PLAN SCOPE

-  GSG Project Boundary 67,663sf
-  Landscape Area(including tree pits) 6,377sf

### LEGEND

-  CONCRETE PAVEMENT
-  PERMEABLE PAVER STRIP
-  PEDESTRIAN RAMP
-  APPROXIMATE LIMIT OF ASPHALT REPLACEMENT