

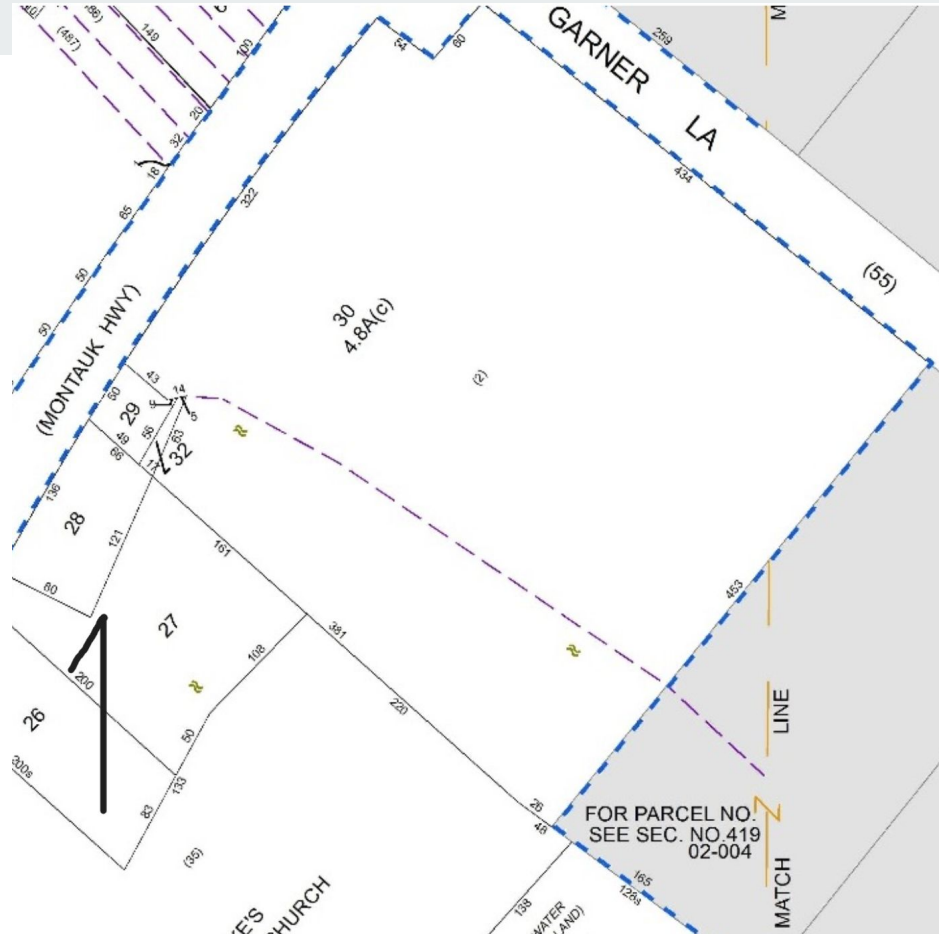


Site Analysis

ARC 486
Christopher Carpenter

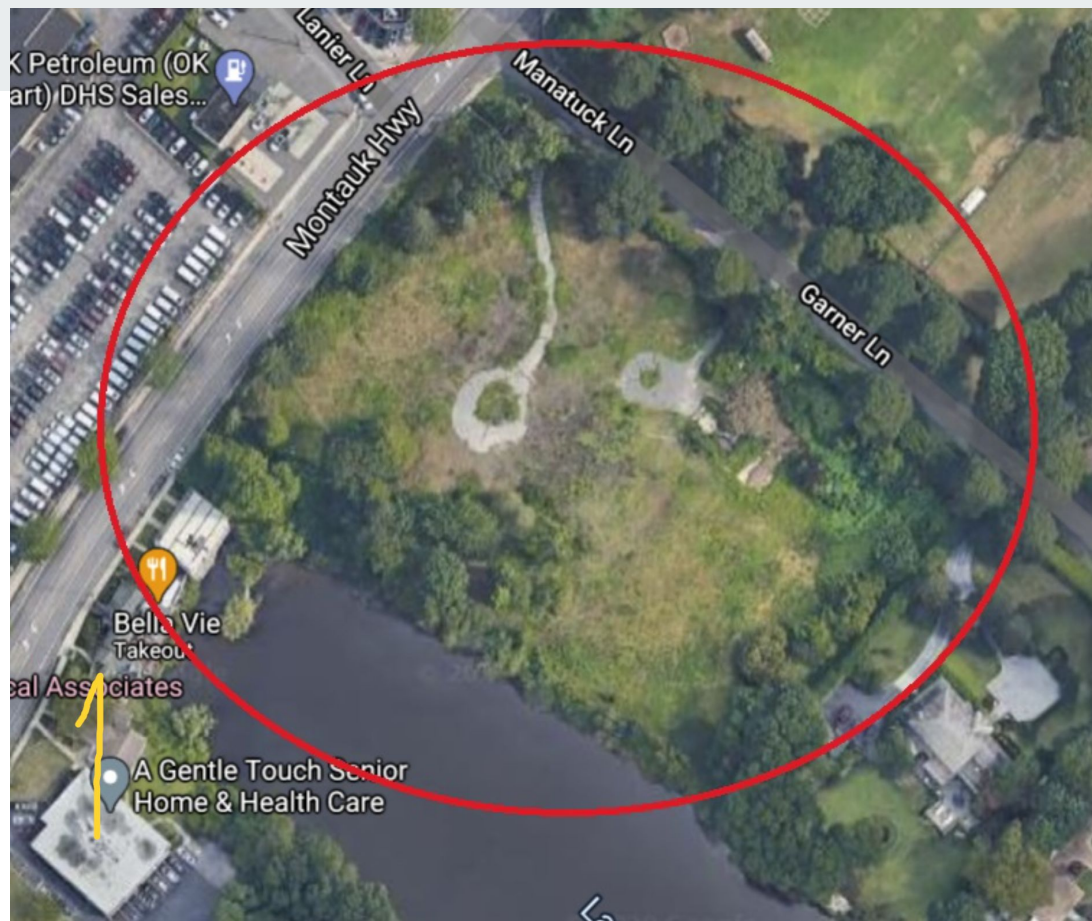


Lot Size



Existing Site Plan

Site Aerial



Farmingdale State College Aerial View



Zoning Information

Zoning= Business 1

Setbacks: Front Yard=25 ft, Rear Yard 25 ft, Side Yard= 14 ft

Lot Area= Minimum 7,500 sq ft

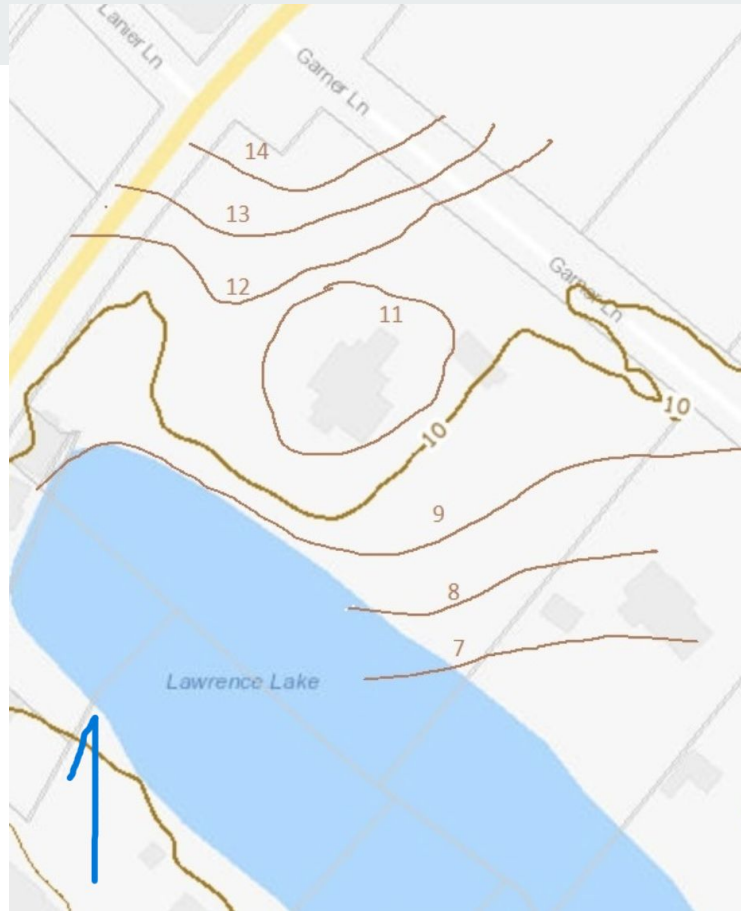
Building Height= 28 feet maximum

Maximum Floor Area Ratio= .4

Landscaping= 20% minimum lot area, 10% in front yard

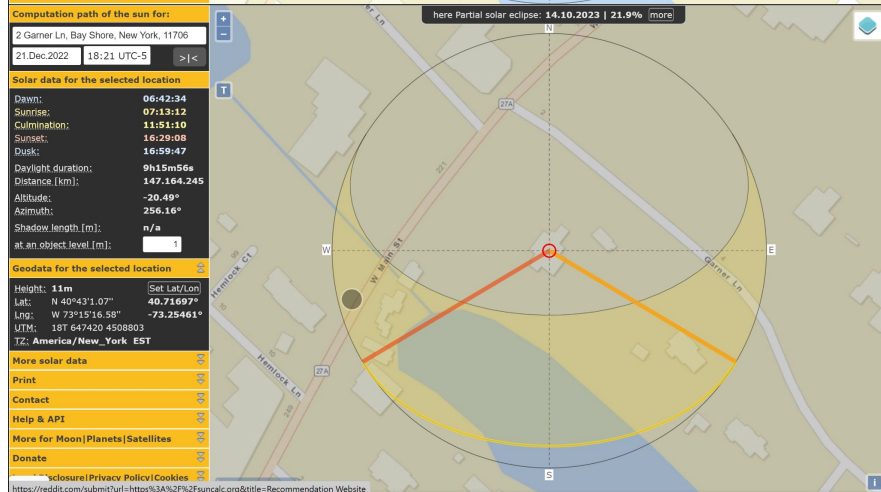
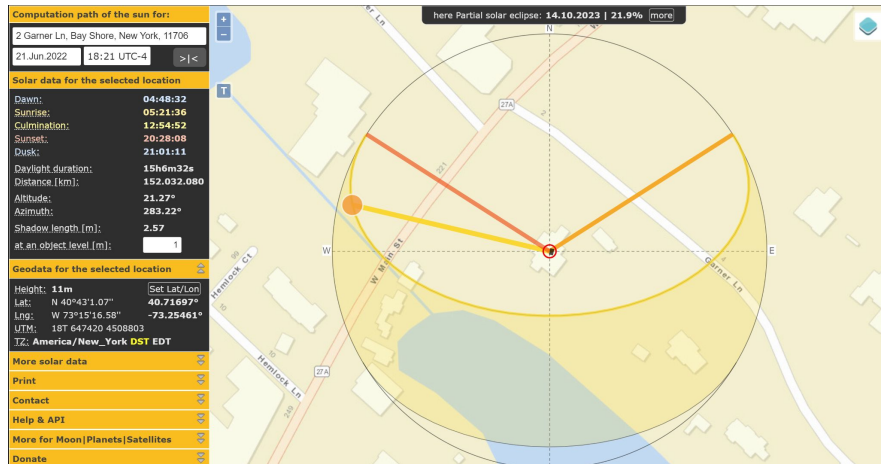
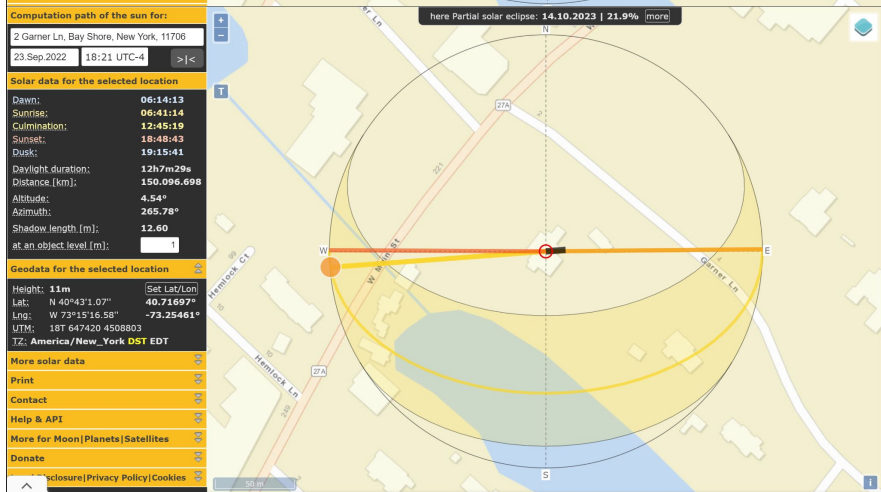
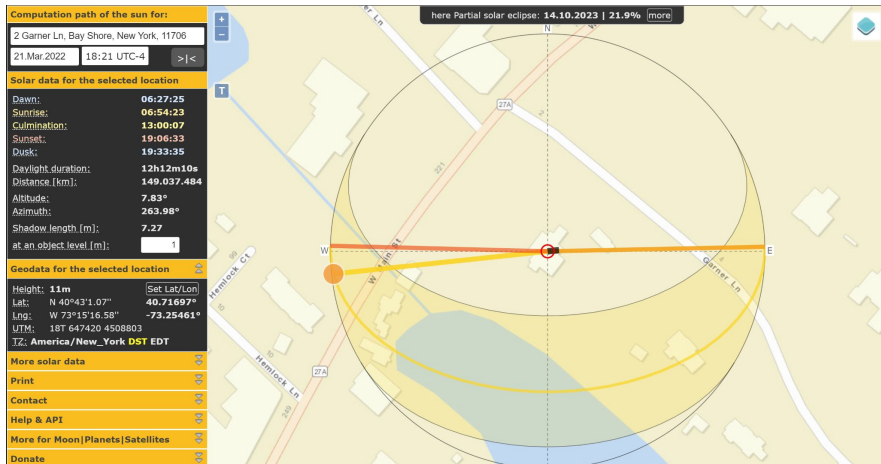


Topography

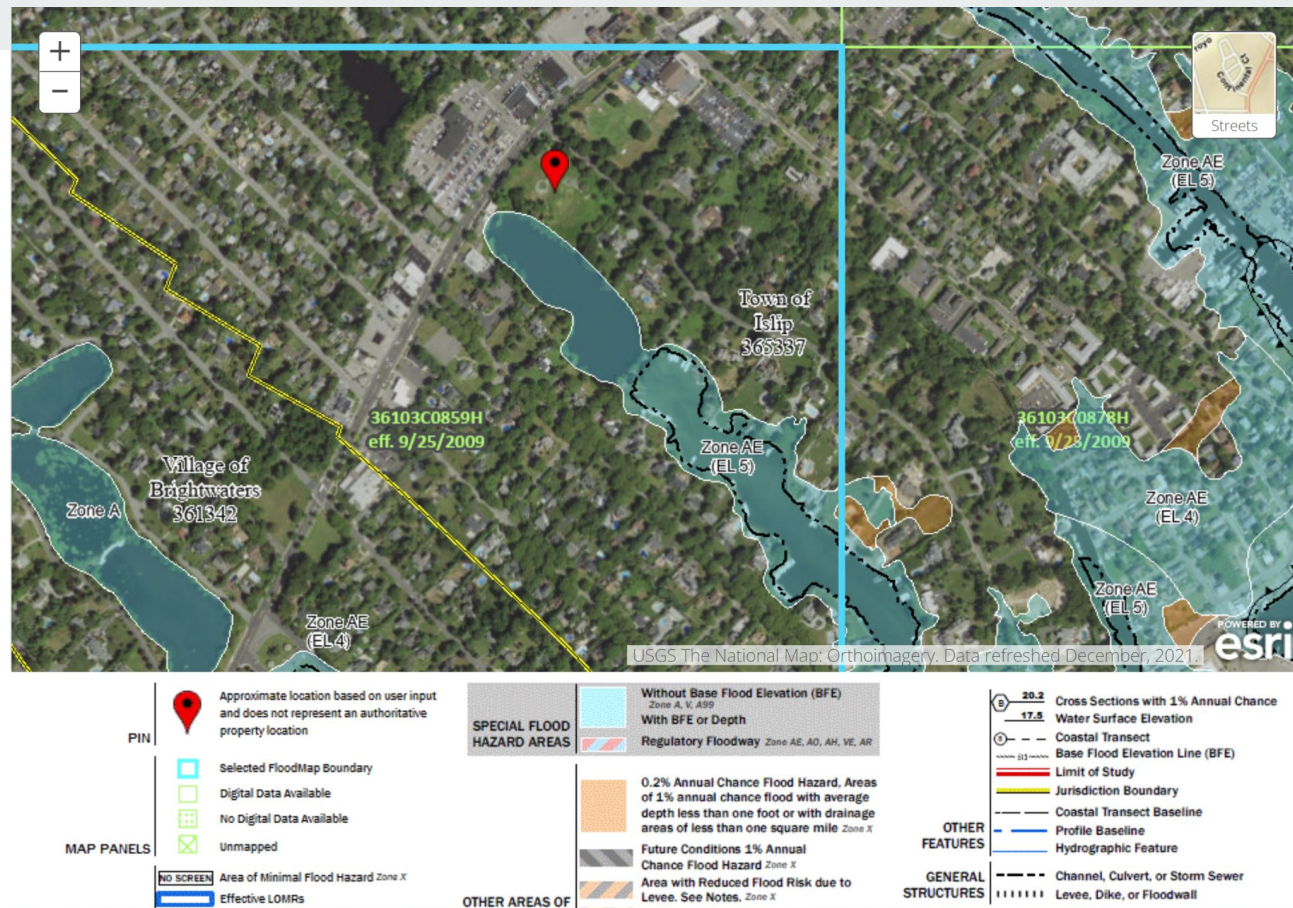


Topographical Plan

Sun Positioning



Flood Plain



Context



Most of main street near the location of the site, is made up of natural brick and painted brick.

Another prominent feature near the site, is the lake in the backyard of the planned area, which is an area that will hopefully be worked into the new building, with its views.





Views





Building Program

Room	Quantity	Square Footage	Total	
Bathroom	6	200	1200	
Conference Room	2	600	1200	
Kitchen	1	200	200	
Break Room	2	300	600	
Lobby	1	250	250	
Reception	1	200	200	
Office	20	150	3000	
Cafe	1	2500	2500	
Meeting Room	2	200	400	
Storage Room	4	150	600	
Executive Offices	3	180	540	
Public Area	2	500	1000	
Total			11690	
Total(15%)			13,443.50	



Septic Calculations

Groundwater management zone is Zone 6.

Allowable Sanitary Flow Rate= $3.74 \times 600 = 2,244$ gallons per day

Actual Sanitary Flow= $40,000 \times .06\text{gpd/sf} = 2,400$ gallons per day

Required Capacity= $2,400 \times 2 = 4,800$

Required Side Wall= $4,800/1.5 = 3,200$

Required Depth= $6,516.6/31.42 = 101.8$