



Town of Barnstable

# GIS Property Maps

User's Guide

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# Introduction

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Welcome to the Town of Barnstable GIS Property Maps. The purpose of this application is to provide public access to the Town's GIS parcel maps, Assessing data, and other common GIS map layers.

While the application is easy to use, there are many features that may not be obvious at first glance. Reading through this document will provide a good overview of the many functions and tools that are available.

## Compatibility

The technology behind this new application is designed to work seamlessly across a wide variety of devices, operating systems, and web browsers. The application works the same whether you're using a PC or Mac, an iPad or Android tablet, or an iPhone or Android phone.

A wide variety of web browsers are supported including Chrome, Firefox, Edge, Internet Explorer (version 9.0+) and Safari. For the best results, using the most recent version of your chosen web browser is recommended.

## Web Accessibility

This application provides enhanced access to end-users with disabilities. It enables full keyboard control, is screen reader friendly, and contains other features to make mapping technology more accessible to the largest possible audience of potential users, regardless of their level of ability.

This application conforms to the Web Content Accessibility Guidelines (WCAG) 2.0 level AA.

## Map Accuracy

As with any GIS, the accuracy of the map layers varies depending on the sources used. It is important to keep in mind that maps produced with this application are **not** equivalent to a survey or engineering plan. All map features, particularly the parcel lines (property boundaries), are only approximations intended for illustration purposes.

These maps **cannot** be used to determine true property boundaries. The parcel lines do not represent accurate relationships to physical objects on the map such as building locations. They are not adequate for legal boundary determination or regulatory interpretation. The

maps do not represent an on-the-ground survey. They may be generalized, may not reflect current conditions, and may contain cartographic errors or omissions.

### Data Sources

The following table details the sources for the various map layers shown in the application.

Map Layer	Source
Parcel Lines	FY 2017 Town of Barnstable Assessor Maps
Physical Features (buildings, roads, driveways, water bodies, marshes, etc.)	Mapped from aerial photographs taken on April 19-21, 2014, mapped to meet ASPRS accuracy standards for 1"=40' scale maps
Topography (NAVD 88)	Mapped from aerial photographs taken on April 19, 2008, mapped to meet ASPRS accuracy standards for 1"=100' scale maps with a 2' contour interval
Zoning & Overlay Districts	Latest Town of Barnstable Zoning Map
FEMA Flood Zones	July 16, 2014 FEMA Flood Insurance Rate Maps (FIRMs). This layer represents a subset of the information shown on the actual FIRM maps.

### Feedback is Welcome

Please contact the Town of Barnstable GIS Unit with any questions, comments or feedback at:

Email: [gis@town.barnstable.ma.us](mailto:gis@town.barnstable.ma.us)

Phone: 508-862-4624

# Map Navigation

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## Zoom In / Zoom Out

The simplest way to zoom in or out of the map is to use your mouse wheel. Simply roll the wheel forward or backward to zoom the map display in or out.

There are also “+” and “-” buttons located in the upper left corner of the map (Figure 1). Clicking these will zoom the map in or out by a fixed amount.



Figure 1 - Zoom In or Out by a Fixed Amount

**TIP:** For a fast way to zoom to a particular spot, press and hold the *SHIFT* key on the keyboard, then while holding the *SHIFT* key, click and hold the left mouse button while dragging a rectangle on the map (Figure 2). This will immediately zoom to the specified area on the map.



# Viewing Parcel Details / Assessing Data

To view Assessing data for a parcel, left-click on the parcel to select it on the map (on mobile devices, tap on the parcel to select it). When a parcel is selected, it will be highlighted with a blue outline on the map, and the parcel's Assessing data will be displayed to the left of the map (Figure 3).

**TIP:** If the parcel is not selected after clicking on it, try zooming in and selecting the parcel again.

Be sure to scroll down to see additional data. Included are sections for: Location, Property Photos, Owner & Mailing Address, Assessed Value, Residential Exemptions, Building Details, Extra Property Features, Building Sketches, Sales History, and Tax Information.

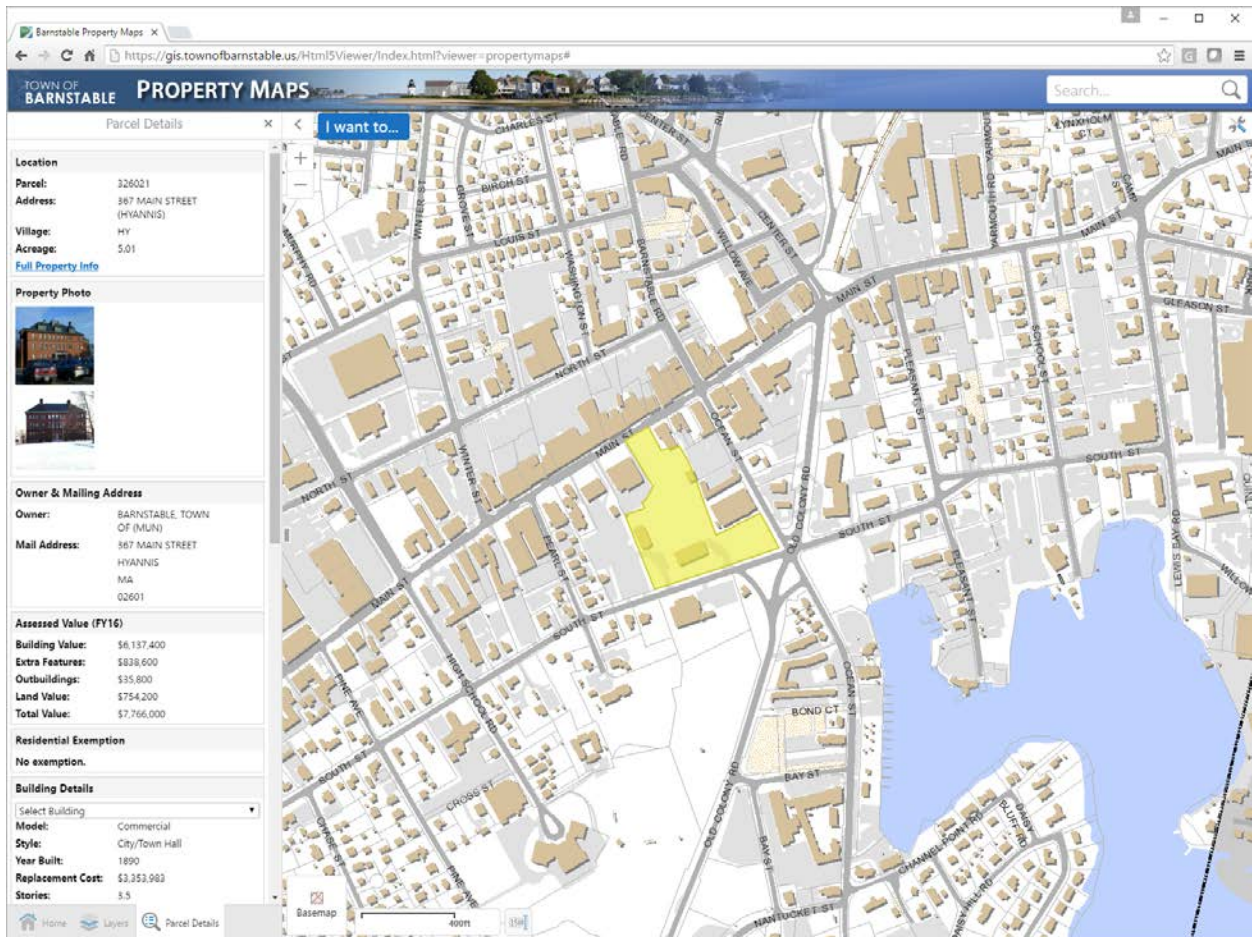


Figure 3 - Viewing Details for a Selected Parcel



## Condo Parcels

If the selected parcel is a condominium, there will be multiple Assessor records, one for each condo unit. In these cases, a drop down menu for selecting a single condo unit will be displayed at the top of the Parcel Details window (Figure 4). Click on this menu and select the desired condo unit (Figure 5). The Parcel Details window will then update to show details for only the selected unit.

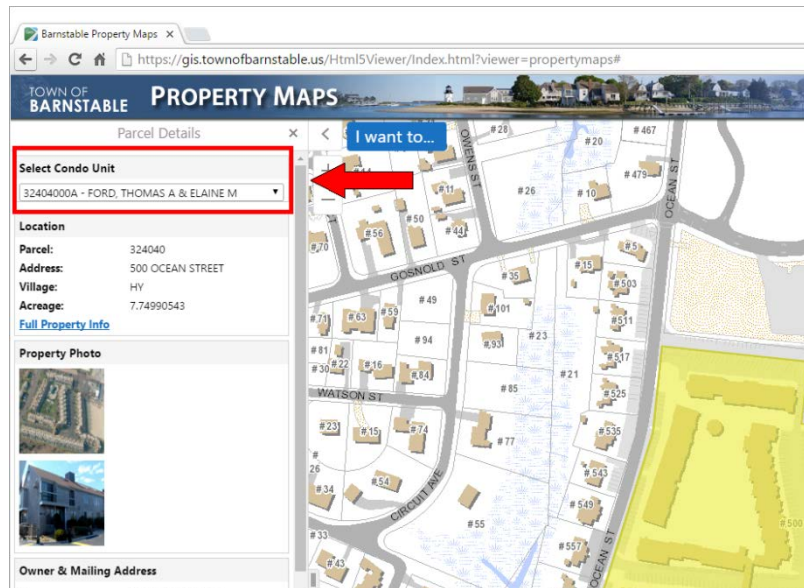


Figure 4 - Condo Unit Selection Menu

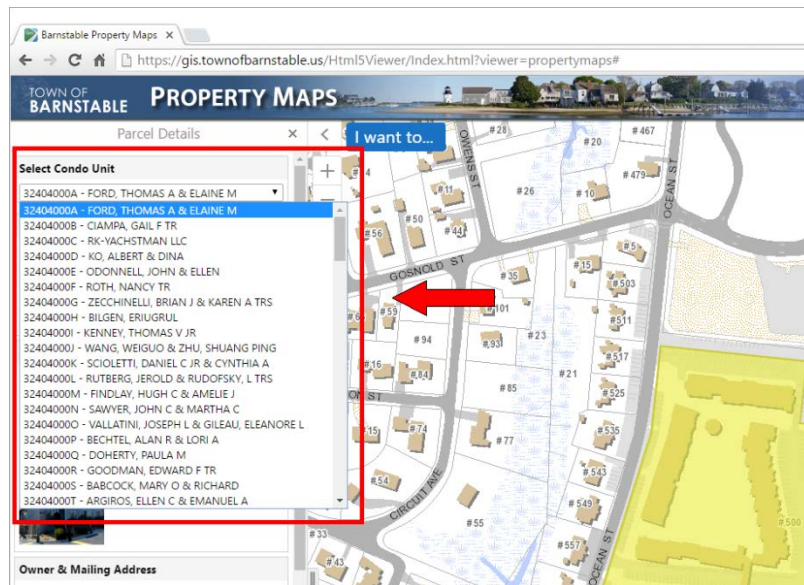


Figure 5 - Selecting a Condo Unit

## Link to Full Assessor's Database

Keep in mind that the Assessing data shown in this application is only a subset of the full Assessor's database. To view more detailed Assessing data for the parcel, click the "Full Property Info" link to open the full Assessor's data page in a new browser tab (Figure 6).

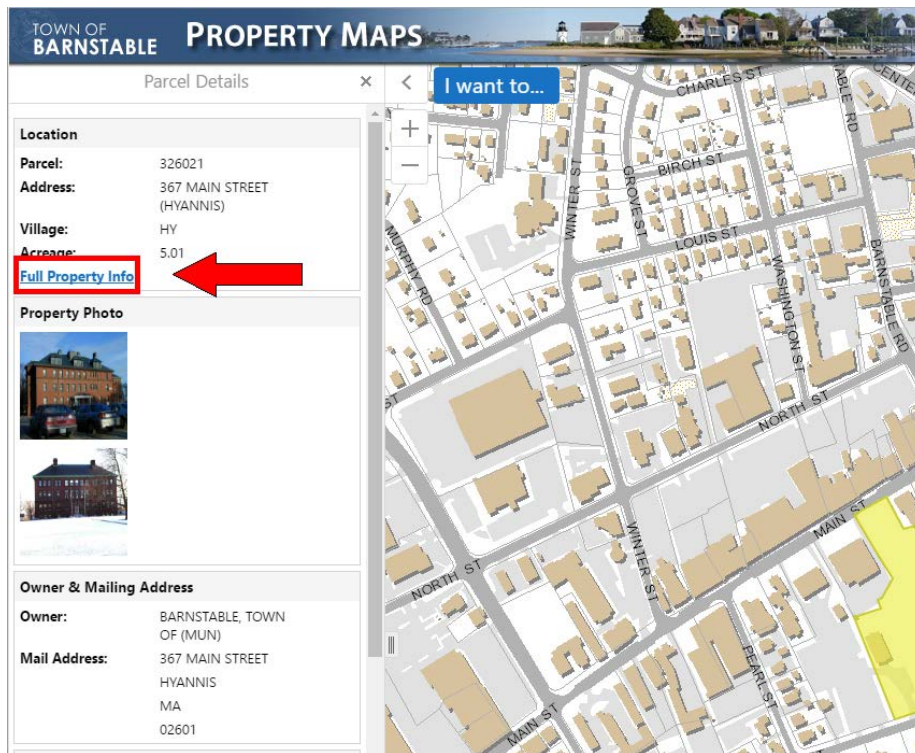


Figure 6 - Link to Full Assessor's Database

## Full Size Property Photos

If there are property photos available for the selected parcel, thumbnail images will be displayed under the "Property Photo" heading. Clicking on any of these thumbnails will open the full size image in a new browser tab (Figures 7 & 8).

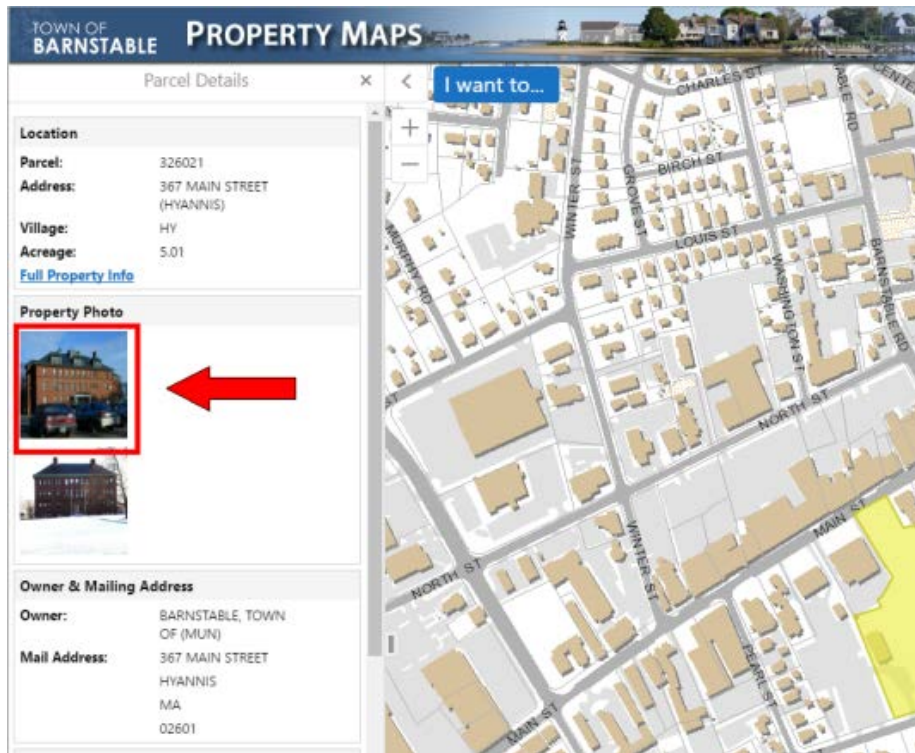


Figure 7 - Link to Full Size Property Photo

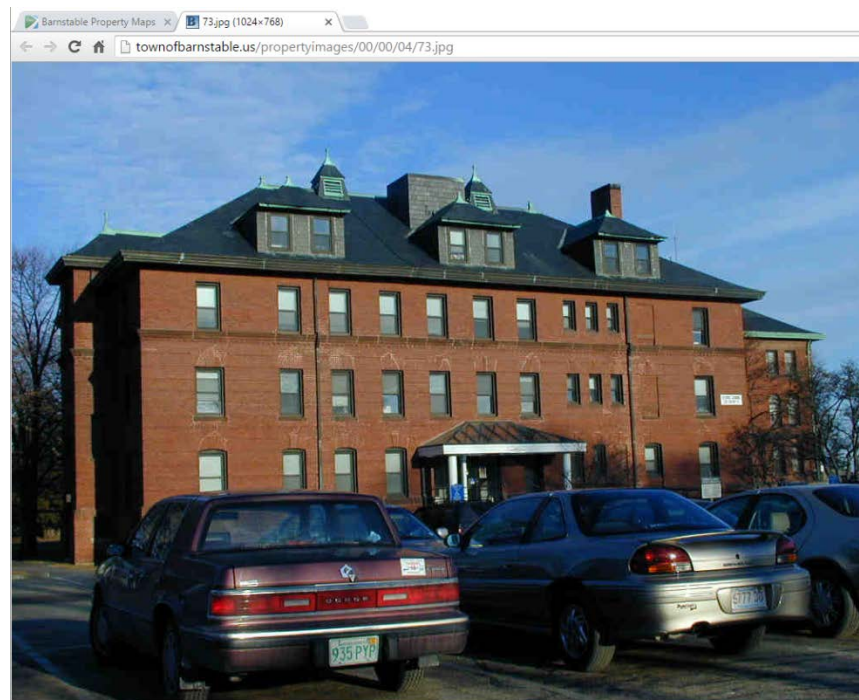


Figure 8 - Full Size Property Photo in New Browser Tab

## Parcels with Multiple Buildings

For parcels that contain multiple buildings, detailed building information is shown for one building at a time. If a parcel contains more than one building, under the “*Building Details*” section there will be a drop-down menu to choose which building is shown (Figure 9).

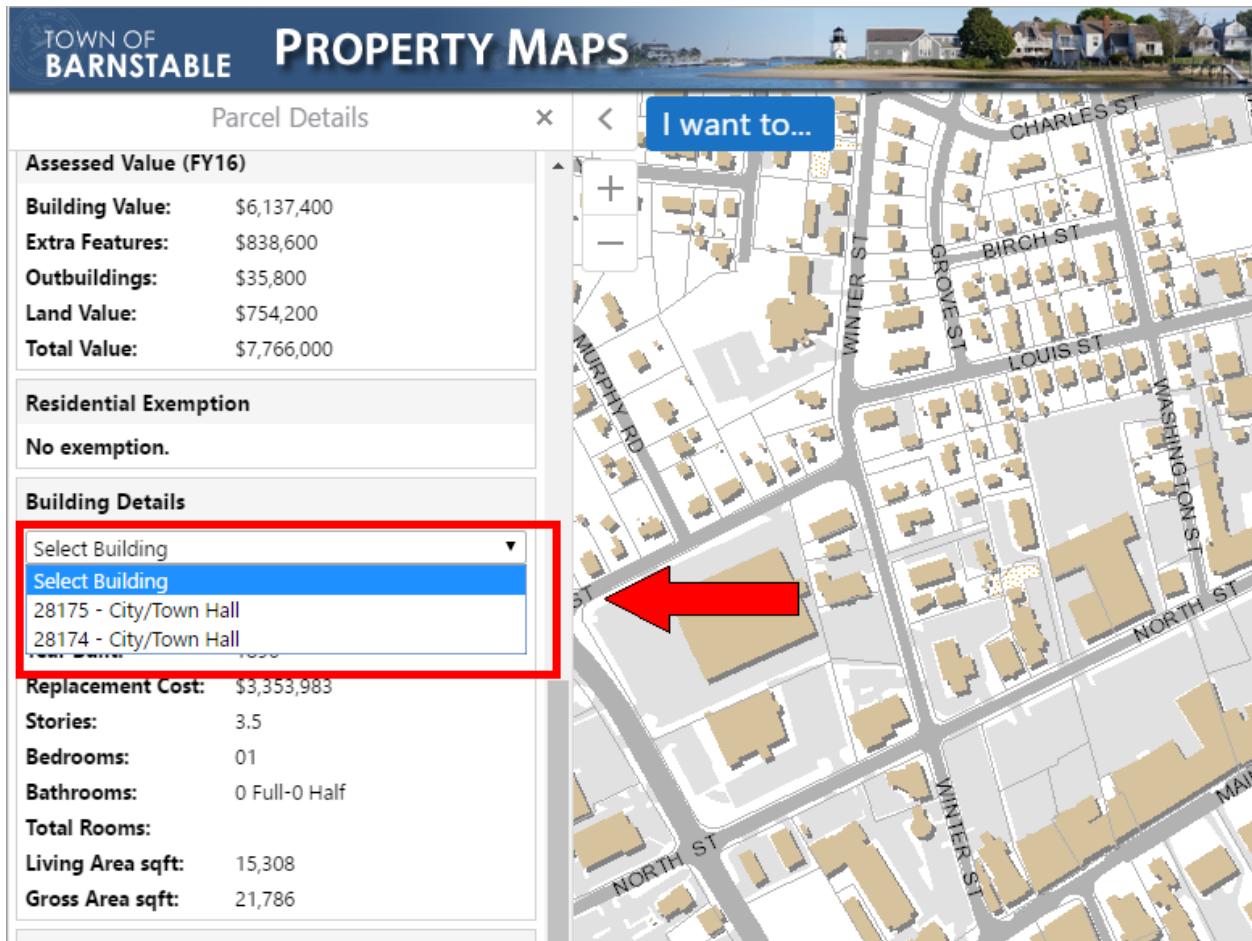


Figure 9 - Selecting a Building

## Full Size Building Sketches

If there are building sketches available for the selected parcel, thumbnail images will be displayed under the “*Building Sketch*” heading. Clicking on any of these thumbnails will open the full size image in a new browser tab (Figures 10 & 11).

**TOWN OF BARNSTABLE PROPERTY MAPS**


Parcel Details I want to...

**Model:** Commercial  
**Style:** City/Town Hall  
**Year Built:** 1890  
**Replacement Cost:** \$3,353,983  
**Stories:** 3.5  
**Bedrooms:** 01  
**Bathrooms:** 0 Full-0 Half  
**Total Rooms:**  
**Living Area sqft:** 15,308  
**Gross Area sqft:** 21,786

**Extra Features**

Description	Value
Basement-Unfinished	\$63,900
Elevator-Res-Med-3stop	\$195,000
PAVING-ASPHALT	\$11,200
Basement-Unfinished	\$109,200
SPRINKLERS-WET	\$109,000
Open Porch-roof-ceiling	\$3,800
Office Finish-Low Cost	\$128,500
Commercial Generator	\$24,600
Office Finish-Low Cost	\$229,200

**Building Sketch**



**Sales History**

Sale Date	Sale Price
1954-02-04	\$0

**Tax Information (FY16)**

Hyannis FD Tax (Commercial)	\$0.00
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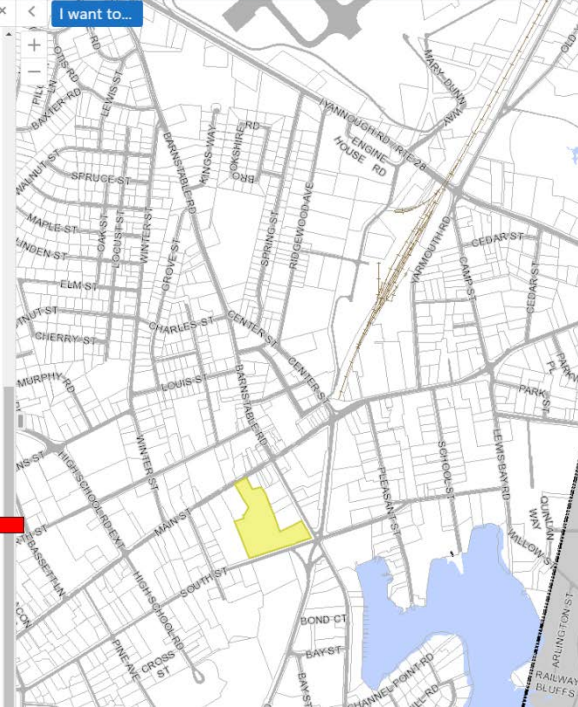
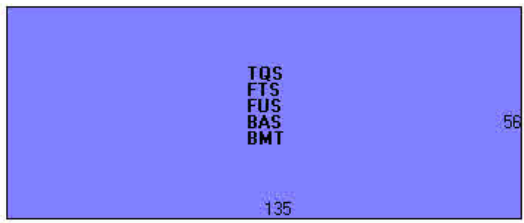


Figure 10 - Link to Full Size Building Sketch

Barnstable Property Maps 27159\_28174.jpg (396x29)

townofbarnstable.us/sketches16/27159\_28174.jpg

**Town Hall**



TQS  
 FTS  
 FUS  
 BAS  
 BMT

56

135

Figure 11 - Full Size Building Sketch in a New Browser Tab

# Basemaps & Aerial Photographs

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The map shown by default in the application is a basic parcel and street map. This includes layers such as streets and street names, parcel lines and labels, buildings, parking lots, and water bodies. This grouping of map layers is called the “*Basemap*”.

In addition to the Basemap, there are several different aerial photograph layers that can be displayed as the backdrop for the map instead of the parcel & street Basemap. These include the following options:

- **Current Aerial** – April 2014 aerial photos. These are the most current and detailed aerial photos available. These were taken during the spring with no leaves on the trees for maximum visibility.
- **Summer / Coastal** – This includes several different dates of photography, all of which were taken during the summer months. While these aerials do have leaves on the trees obscuring some areas, they are useful for viewing seasonal and waterway related items. Some of these aerials only cover coastal portions of the Town. Inland areas may not have photo coverage.
- **Historical Aerials** – This includes many different dates of aerial photography going back to 1938. The quality of these varies due to the higher altitude at which some of the photos were acquired. As with the Summer / Coastal aerials, some of the historical aerials only include partial coverage of the Town.

## Switching Between the Basemap and Aerial Photographs

To switch between the parcel & street basemap and the various aerial photo backdrops, click on the “*Basemap*” button located in the lower left corner of the map (Figure 12). Then select the type of Basemap that you would like to view such as: Basemap, Current Aerial, Summer / Coastal Aerials, or Historical Aerials (Figure 13).

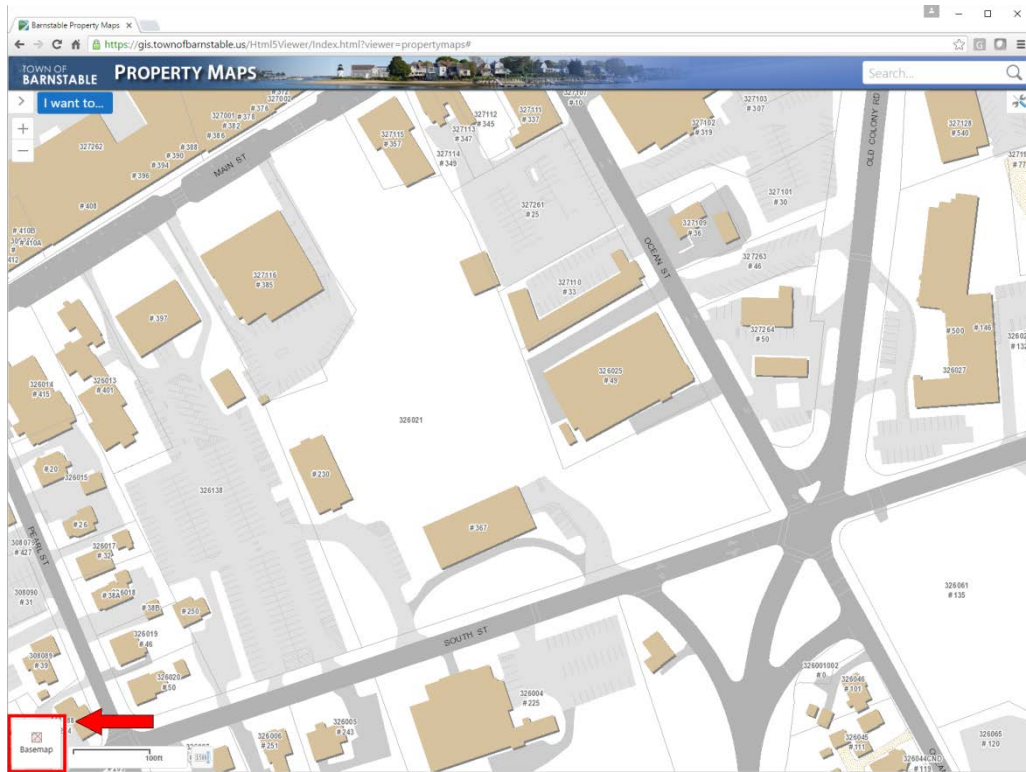


Figure 12 – Basemap Button



Figure 13 - Selecting a Basemap

## Changing the Date of Aerial Photography with the Time Slider

For both the Summer / Coastal aerials and the Historical Aerials, there are multiple years of photography available to view. To view different years of photography, locate the “Time Slider” tool in the lower left corner of the map and simply slide the bar left or right (Figure 14).

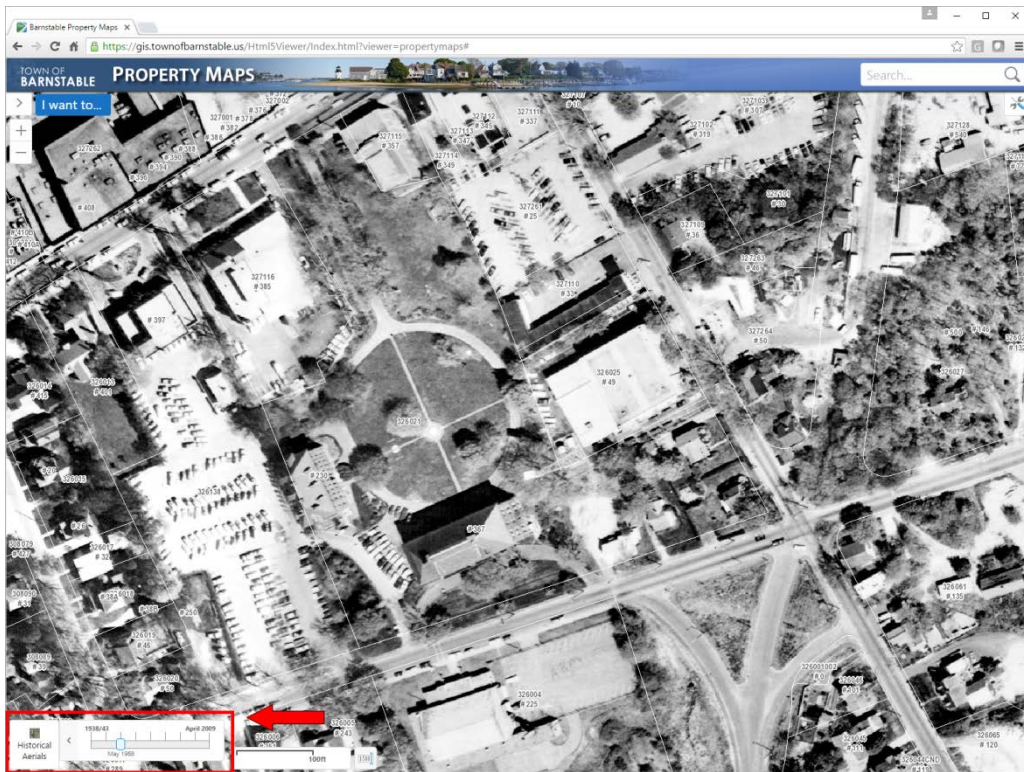


Figure 14 – The Time Slider

The date of photography that is currently displayed is shown directly below the Time Slider (Figure 15).

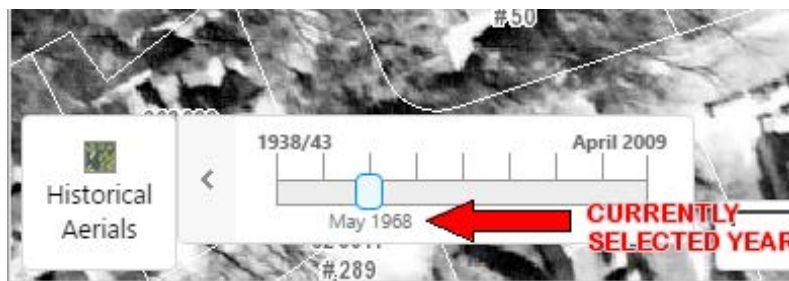


Figure 15 – Selecting a Different Year of Aerial Photography



# Searching for Parcels

## Using the Search Bar for general searching

There are a few different ways to search for parcels on the map. The simplest method is to use the *Search Bar* located in the upper right corner, above the map (Figure 16). The Search Bar can be used to search for parcels by parcel number, street address, street name, or owner name.

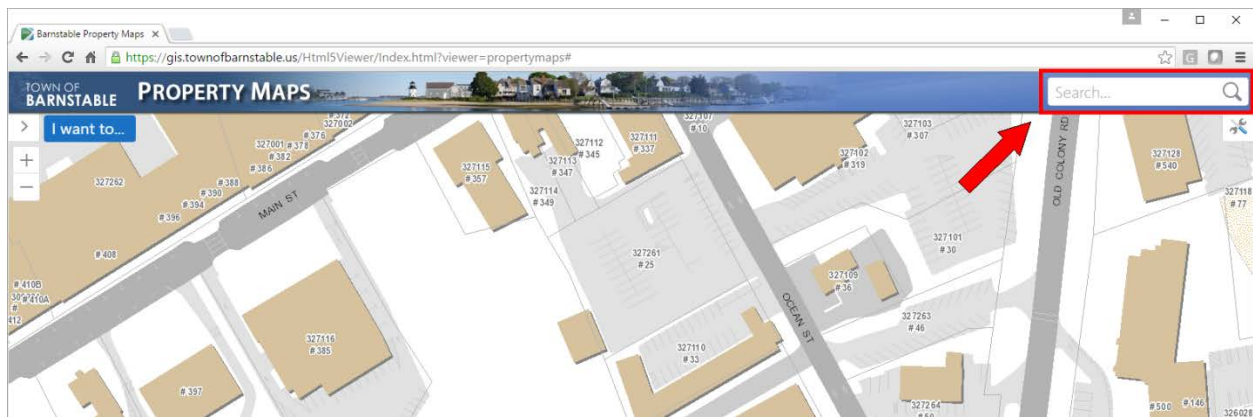


Figure 16 - The Search Bar

The search can be as specific or as vague as you'd like. The Search Bar will return results that partially or fully match the text that was entered. For example, if you enter the text "barn", the results will include anything with the word "barn" including parcels owned by the Town of Barnstable, parcels owned by Barnstable Fire District, parcels located on Barnhill Road, as well as any other parcel with the word "barn" in the owner name or address.

All search results are shown to the left side of the map (Figure 17). If necessary, scroll through the results and click on the correct one. The map will then zoom to the selected parcel and display detailed Assessor's data for that parcel.

**TIP:** If searching by parcel number, enter the complete 6 or 9 digit number without any spaces or hyphens (e.g. "326021"). Also be sure to enter all leading zeros (e.g. 001001001).

**TIP:** If searching by address, try leaving out the street name suffix (i.e. "street" or "road"). Due to differences in how streets are abbreviated, it's usually better to begin by searching for "Elm" rather than "Elm Street" since the street name may be abbreviated differently in the database. The same applies to searching by owner. Start by searching for the owner's last name without initials or first name.

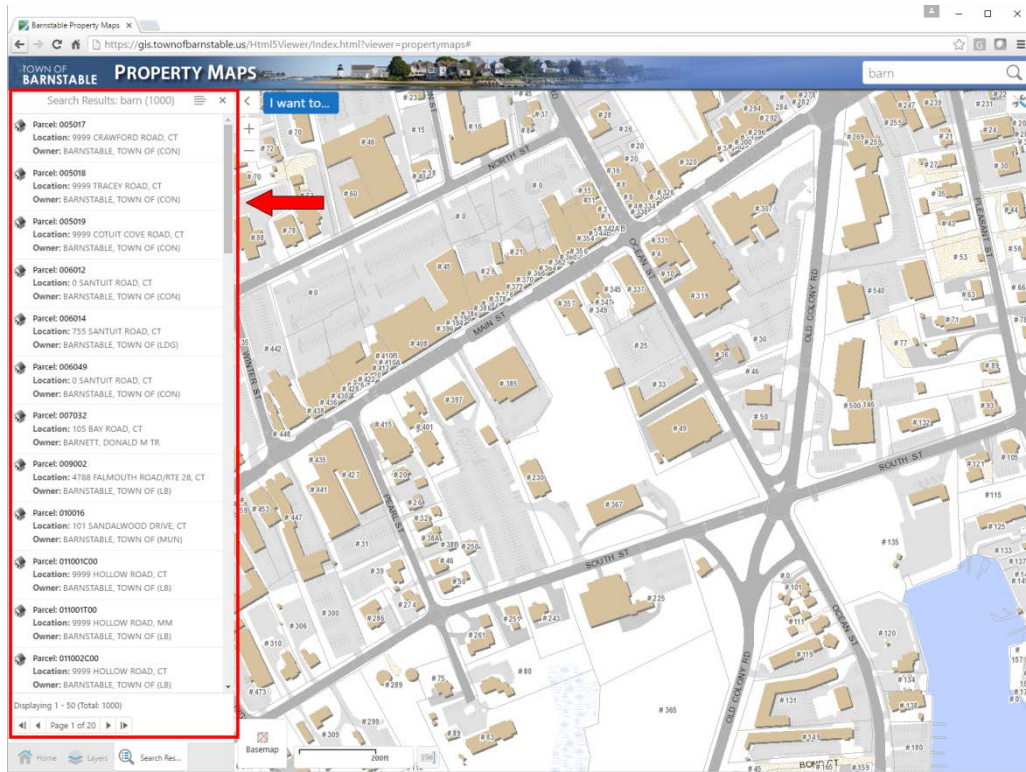


Figure 17 - Search Results

### Focused Parcel Searches

Using the Search Bar can be a quick way to perform general searching, but using it can often return too many results to sift through quickly. If there is a specific parcel that you need to locate by parcel number or address, a more focused way to find it is by using the tools available under the "I want to..." menu (Figure 18).

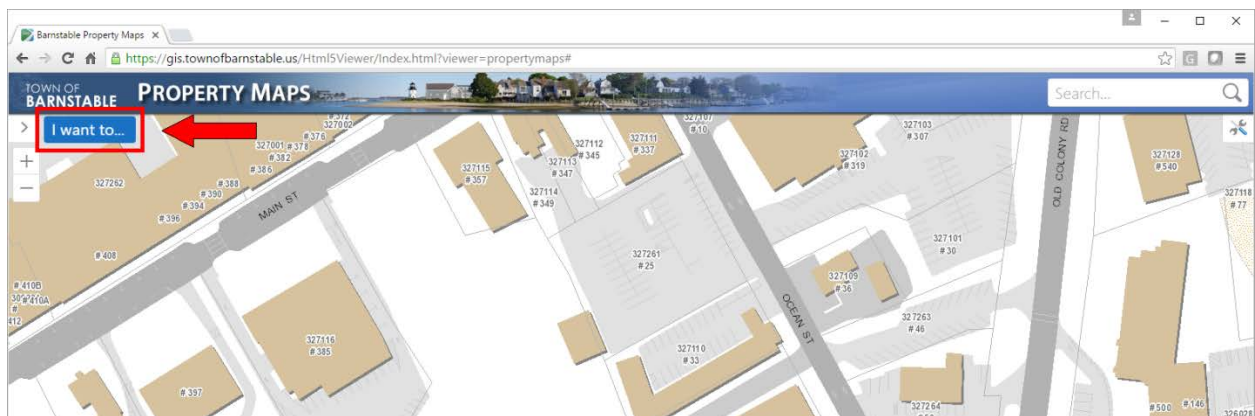


Figure 18 - The "I want to..." Menu

There are currently two search tools available here: “Find a property by parcel number” and “Find a property by address” (Figure 19).

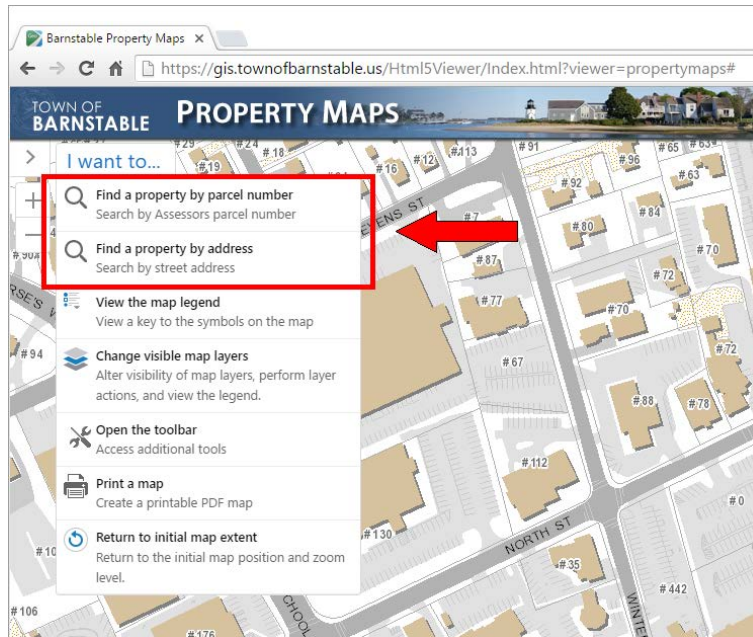


Figure 19 - Focused Search Tools

### Find a Property by Parcel Number

In the previous section, a more general method for searching by parcel number was described using the Search Bar. The disadvantage of that method is that it will return any and all parcel numbers that contain your input text, not just the exact match. In other words, if you enter “001001” in the Search Bar, the results will include any parcel number containing “001001”, including something like “123001001”. The results may contain much more than what you are looking for.

Alternatively, using the search tools under the “I want to” menu has the advantage of searching for an exact match to what is entered. Only a single result will be returned that exactly matches what was entered.

To use the tool, click on the blue “I want to...” button then click on “Find a property by parcel number” to launch the search by parcel tool (Figure 20). Enter the parcel number and click search. The map will then zoom to the selected parcel and display detailed Assessor’s data for that parcel.

**TIP:** Enter the complete 6 or 9 digit number without any spaces or hyphens (e.g. “326021”). Also be sure to enter all leading zeros (e.g. 001001001).

Find a Property by Parcel Number

Enter the 6 or 9 digit Assessor's parcel number (map, block, and lot) together with no spaces or dashes. Enter all leading zeros (for example: 001001).

Parcel Number \*

Search Cancel

Figure 20 - Find a Property by Parcel Number

### Find a Property by Address

Using this method to search by address has the advantage of selecting the street name from a drop down menu rather than typing it in. This eliminates the problem of inconsistent street name spellings or abbreviations.

To use the tool, click on the blue *"I want to..."* button, then click on *"Find a property by address"* to launch the search by address tool (Figure 21). First, select a street name from the upper drop down menu. Then select a street / house number from the lower drop down menu. The map will then zoom to the selected parcel and display detailed Assessor's data for that parcel.

Find Property by Address

Select a street name, then a street number.

Street Name \* Select a Street Name

Street Number

Search Cancel

Figure 21 - Find a Property by Address

# Map Layers and Themes

## Map Layers

The default map displays only a limited set of map layers in order to improve performance and map clarity. This default set of layers includes basic features like parcels, buildings, roads, and water bodies. Beyond these basic map layers, there are many additional layers that can be turned on or off by the user.

To turn additional layers on or off, click on the blue “I want to...” button then click on “Change visible map layers” (Figure 22). A list of map layers will then be displayed with check boxes to turn each one on or off (Figure 23).

**TIP:** Some map layers are not available when zoomed out too far. Due to the amount of detail in some layers, you must be zoomed in fairly close before the layer will be displayed. If a layer is turned on but still not displaying on the map, try zooming in until it becomes visible.

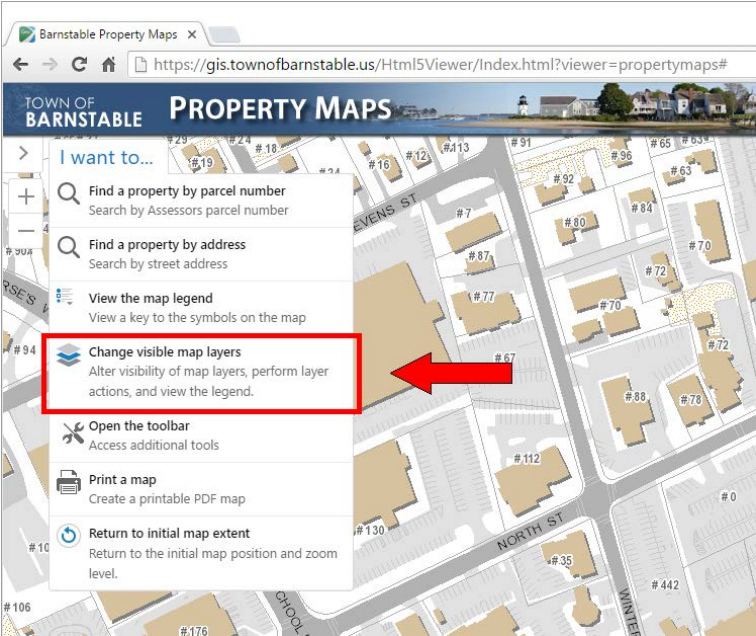


Figure 22 - Change Visible Map Layers

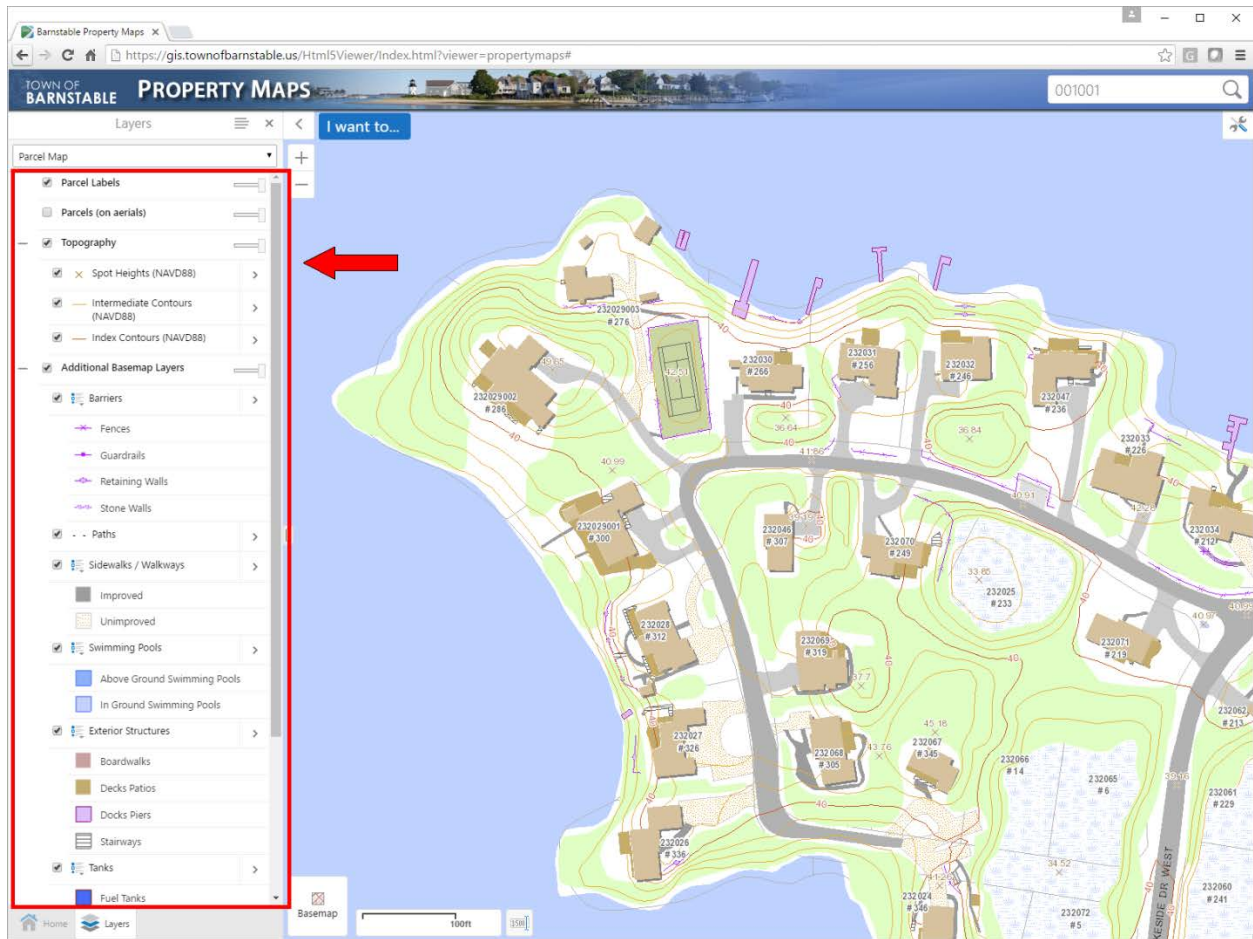


Figure 23 - Map Layers

## Map Themes

Map Themes are groups of related map layers that form a common theme. There are currently three Map Themes available:

- **Parcel Map** – This is the default map theme that includes parcels, buildings, roads, water bodies, topography, and other physical features.
- **Zoning** – The Zoning theme includes zoning districts, zoning overlay districts, and several different water protection districts.
- **FEMA Flood Zones** – This theme includes the July 2014 FEMA Flood Zone layers as well as topography and other physical features.

To change the map theme, select a theme from the drop down menu located above the list of map layers (Figure 24). If the list of map layers is not currently visible, click on the blue “I want to...” button then click “Change visible map layers” to open the layer list.

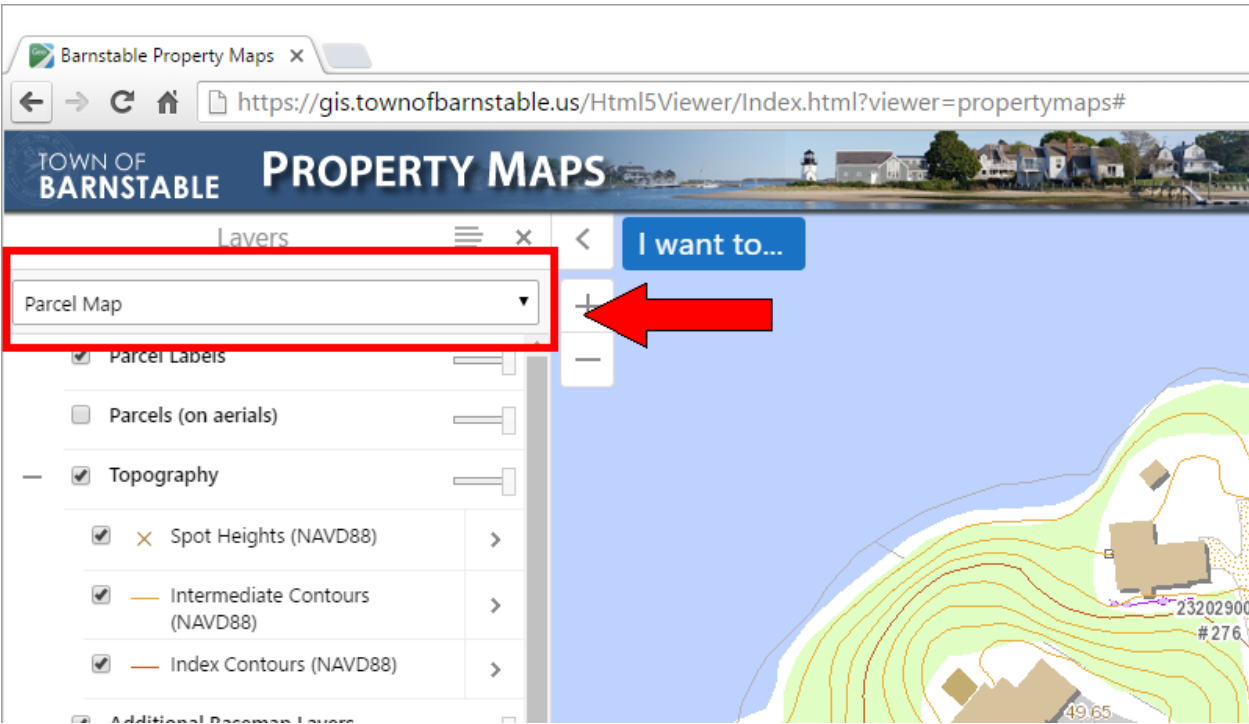


Figure 24 - Changing the Map Theme

### Getting More Information about a Map Layer

Some map layers in the layer list include a link to get further information about that layer. For example, clicking on a particular zoning overlay district in the layer list will link directly to the section of the Town’s Zoning Ordinance that describes that overlay district.

To get more information about a layer, click on the “>” button located to the right of the layer’s name in the layer list (Figure 25). Then click “Link to zoning ordinance” to open the relevant section of the ordinance in a new browser tab (Figure 26 & 27). Note that not every map layer has a link to further information.

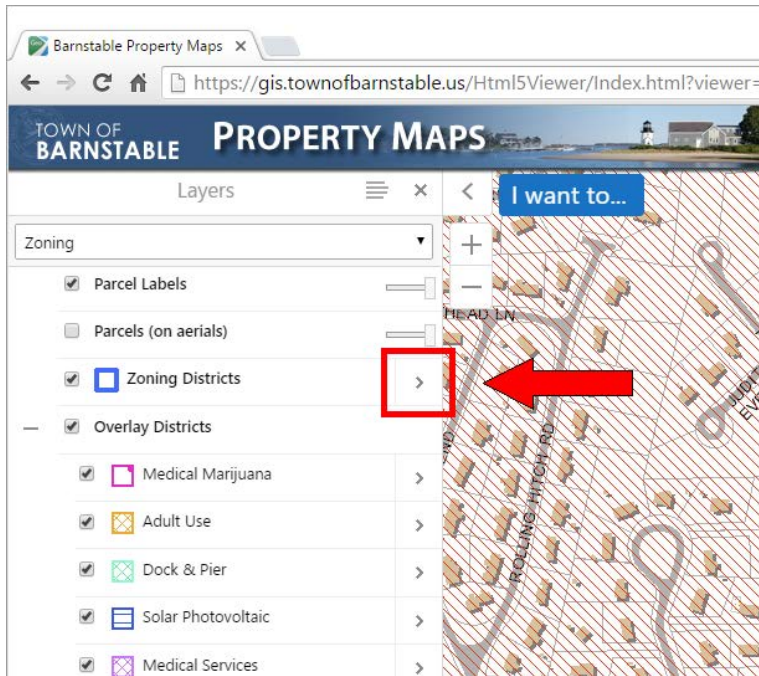


Figure 25 - Getting More Information about a Layer

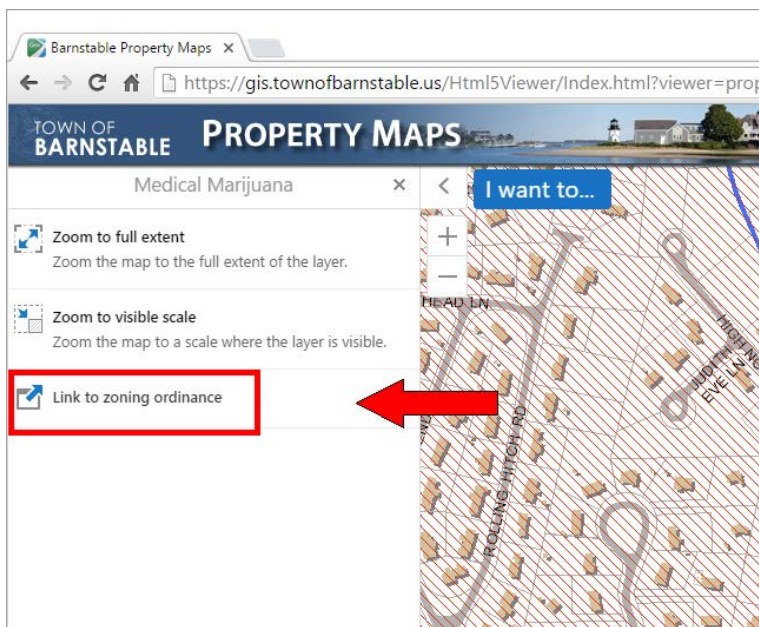


Figure 26 - Link to Zoning Ordinance



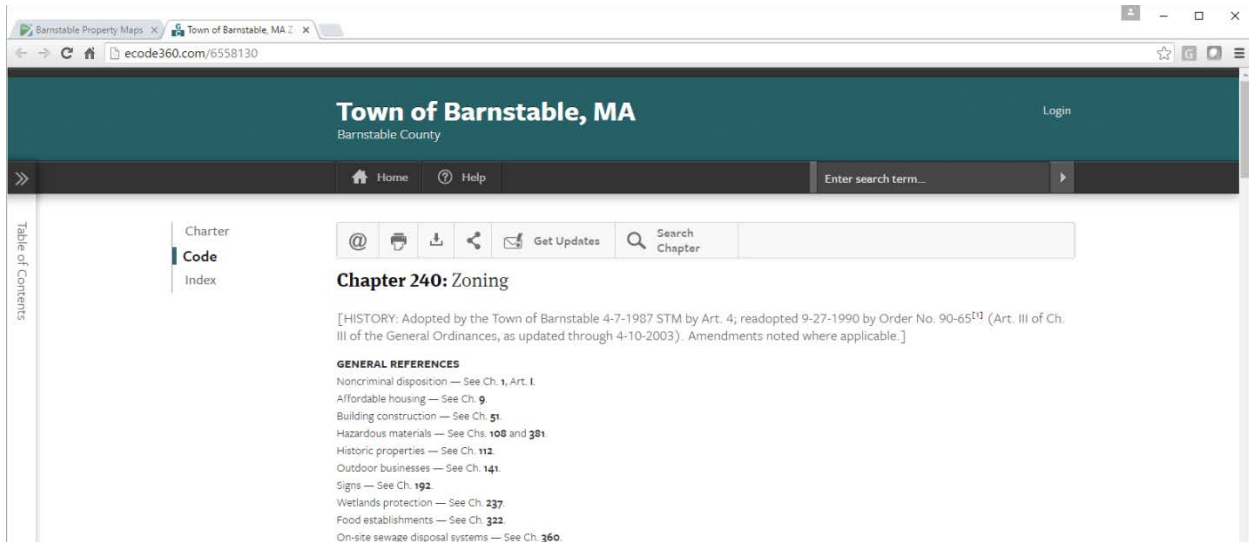


Figure 27 - Zoning Ordinance

## Map Legend

To view a legend describing the various colors and symbols on the map, click on the blue “I want to...” button then click on “View the map legend” (Figure 28 & 29). The map legend only shows layers that are currently visible on the map. As you zoom in to the map and additional map layers become visible, they will also become visible in the legend.

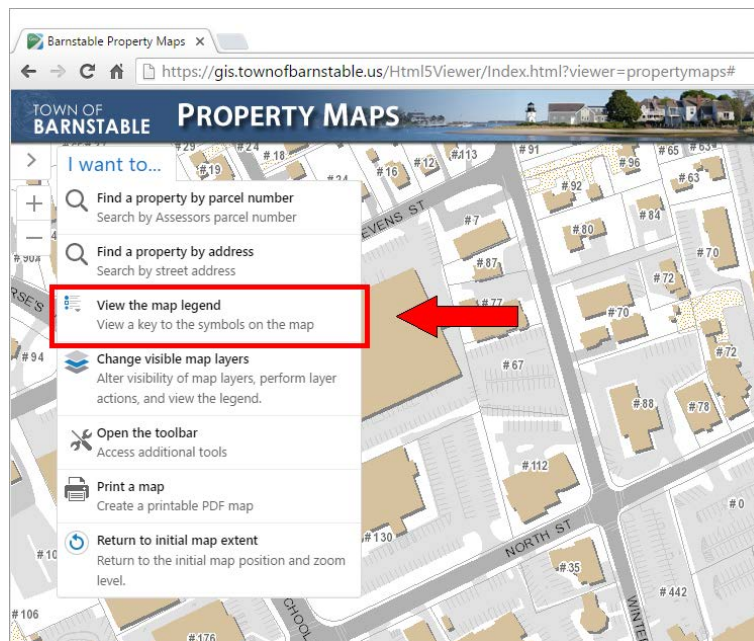


Figure 28 - Opening the Map Legend

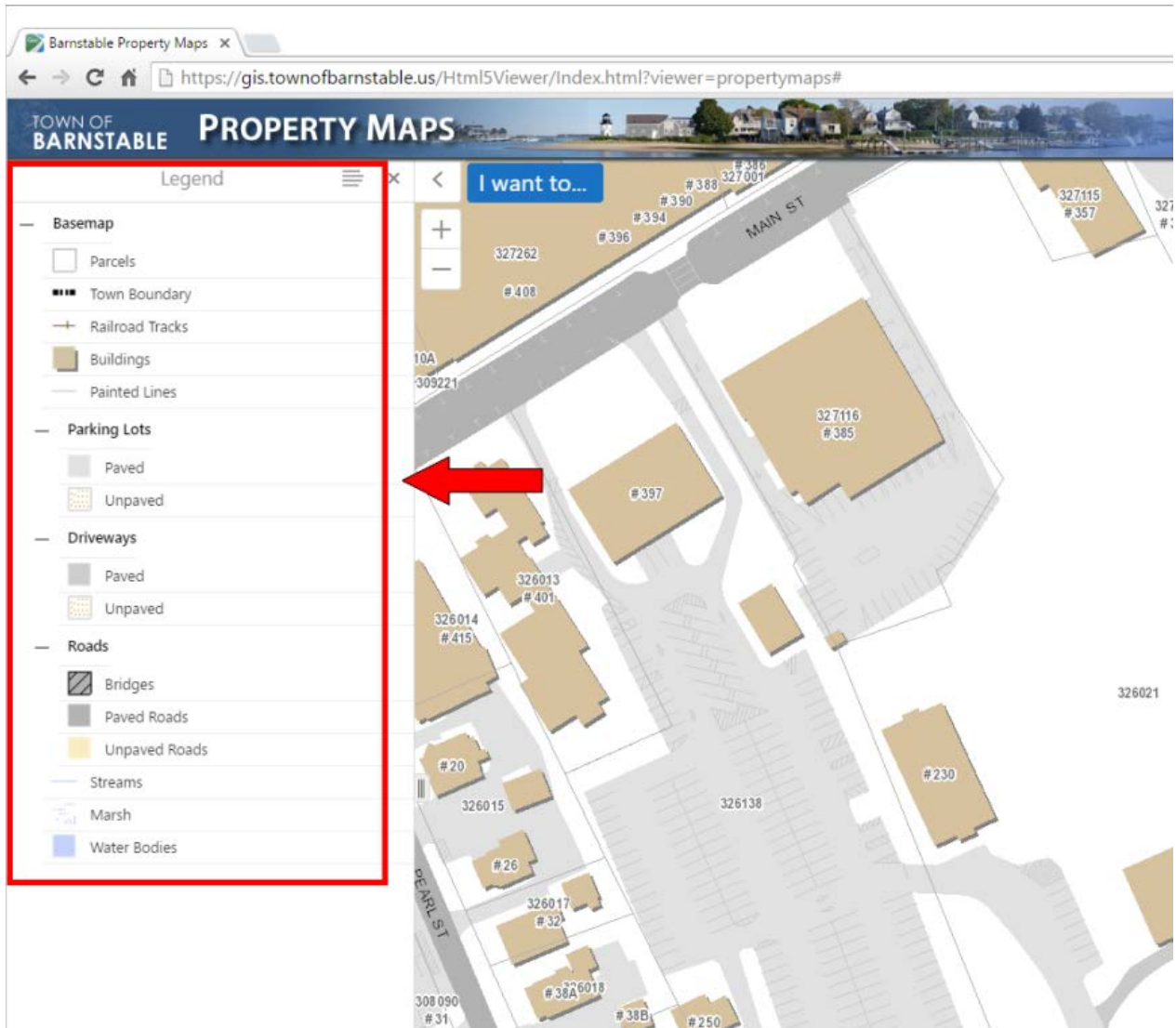


Figure 29 - Map Legend

# Printing Maps

While you can use your web browser’s built-in print function to print a map, you will have much better results using the application’s “Print a map” tool. This tool will generate a printable map formatted for either letter size (8.5”x11”) or tabloid size (11”x17”) and will include a map legend and scale bar. The map can be generated in several different file formats (PDF, JPEG, or PNG) that can be downloaded to your PC or device for future use.

To access the “Print a map” tool, click on the blue “I want to...” button then click “Print a map” (Figure 30).

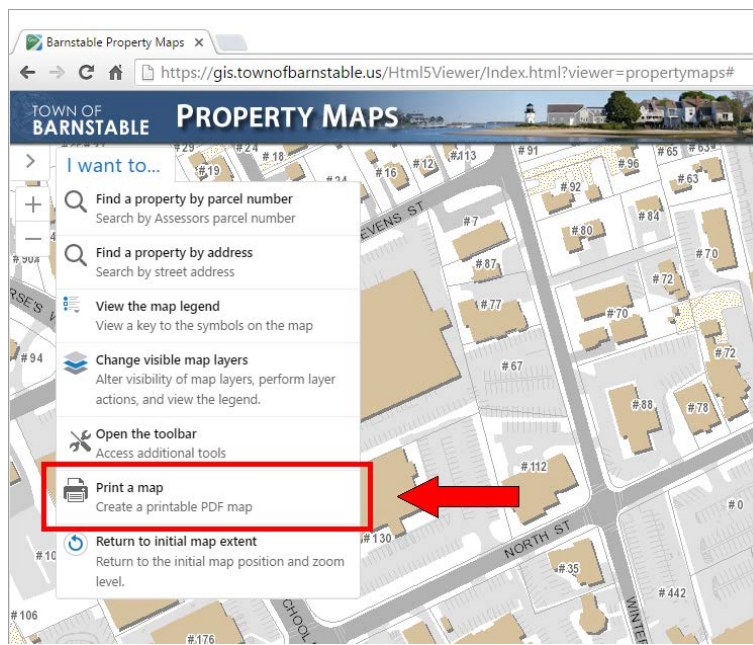


Figure 30 - The Print a Map Tool

On the “Print Map” window that opens, select the map layout (8x11 or 11x17), select the output format (PDF, JPEG, or PNG), and if desired select a map scale (Figure 31).

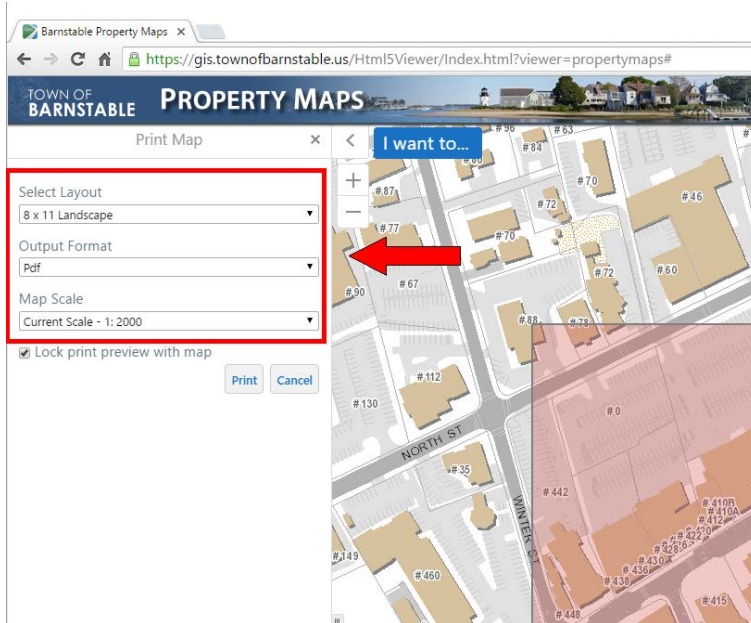


Figure 31 - Print Settings

The pink shaded rectangle on the map indicates the area that will be printed. If the area isn't exactly what you'd like, uncheck the box labeled "Lock print preview with map" and then drag the map around until the desired print area is within the pink shaded rectangle (Figure 32).

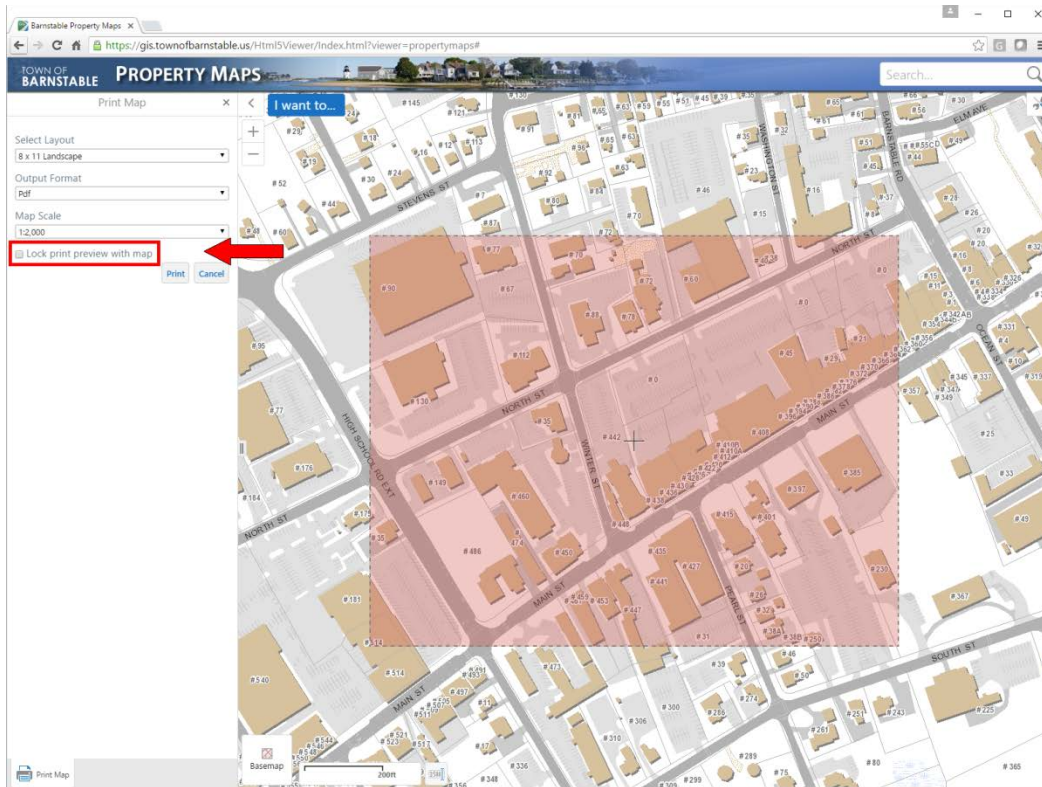


Figure 32 - Changing the Print Area

Once all of the settings are right, click the *“Print”* button to generate the map. When the map is ready, it will display a message that says *“Your file is ready. To view the file, please click Open File”*. Then click the *“Open File”* button to view the map (Figures 33 & 34). The map can then be printed or downloaded for future use.

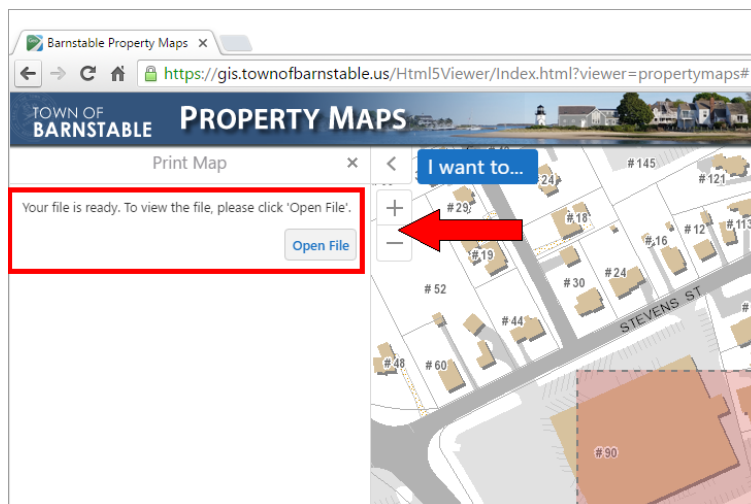


Figure 33 - Opening the Printable Map

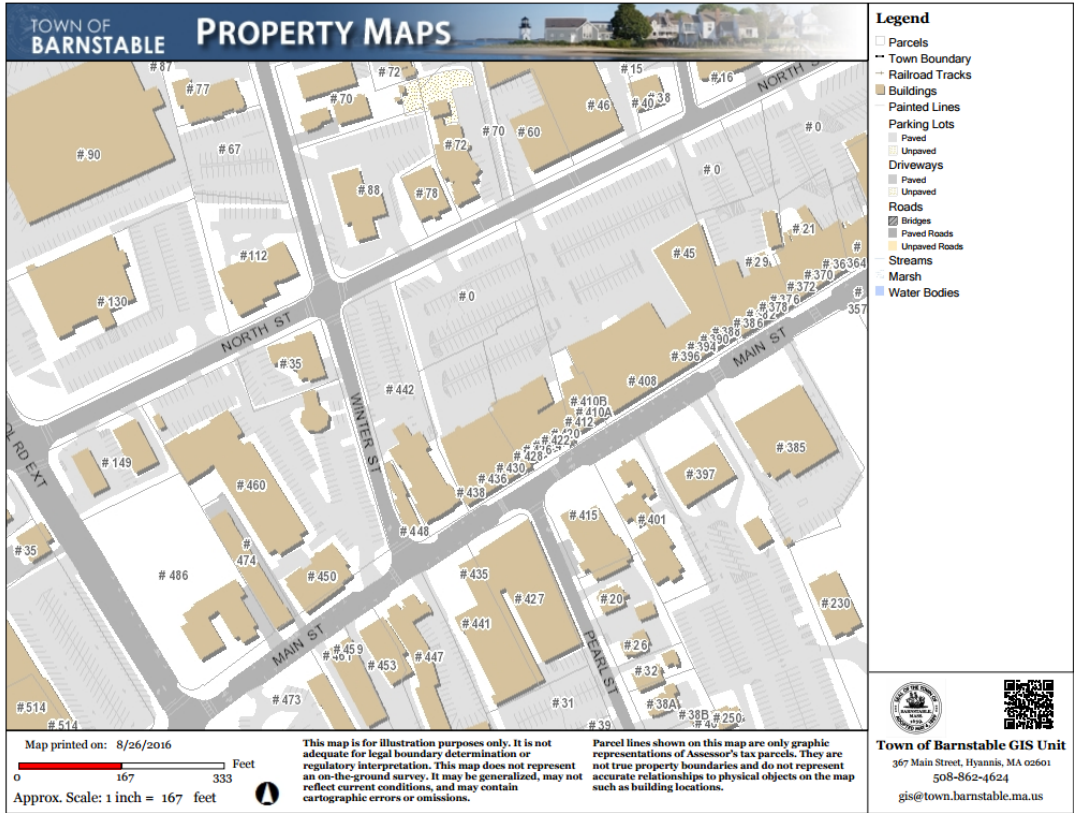


Figure 34 - The Printable Map Downloaded as a PDF

# The Toolbar

In addition to the “I want to...” menu and the other methods for accessing tools that have been discussed so far, there is also a map “toolbar” available. The toolbar provides quick access to some of the more commonly used tools, as well as access to more advanced tools. There are two ways to access the toolbar: by clicking the blue “I want to...” button then on “Open the toolbar” (Figure 35), or by clicking on the toolbar button located in the upper right corner of the map (Figure 36).

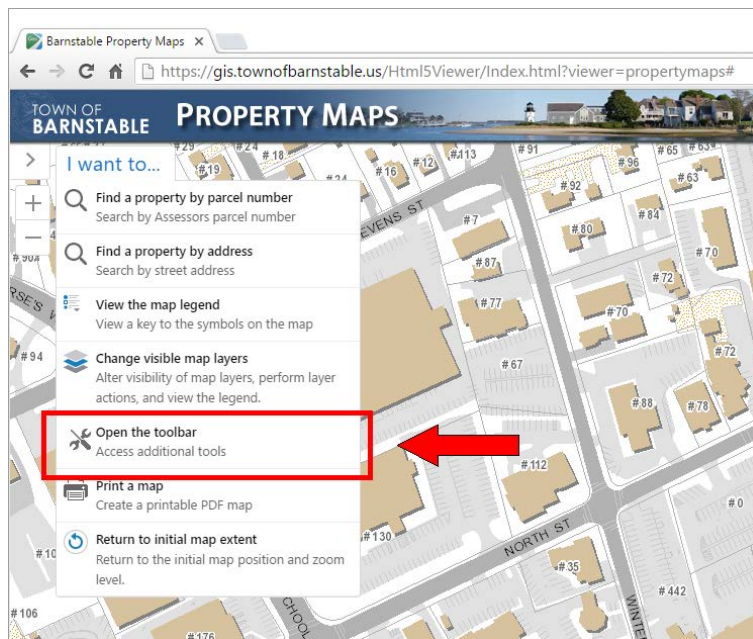


Figure 35 - Opening the Toolbar with the "I want to..." Menu

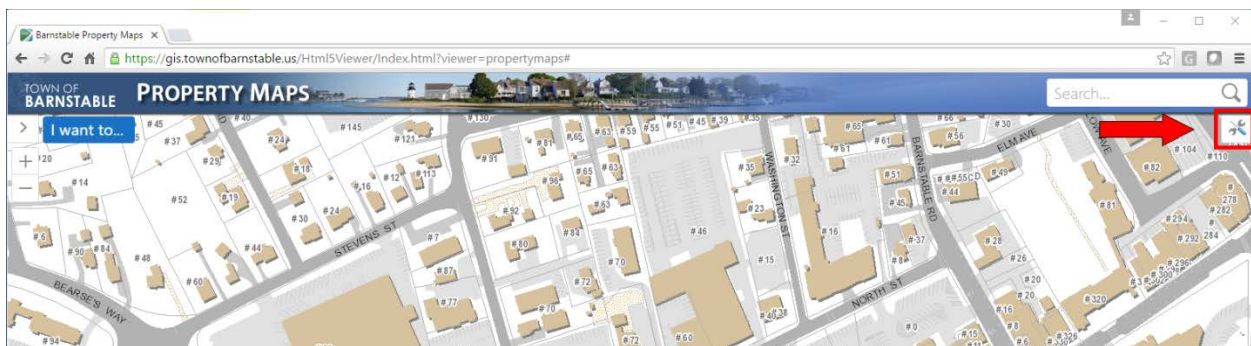


Figure 36 - Opening the Toolbar with the Toolbar Button

## Navigation Tools

The first group of tools, on the left side of the toolbar, includes the map navigation tools (Figure 37). Most of these can also be accessed in other ways such as using the mouse wheel to zoom in or out.

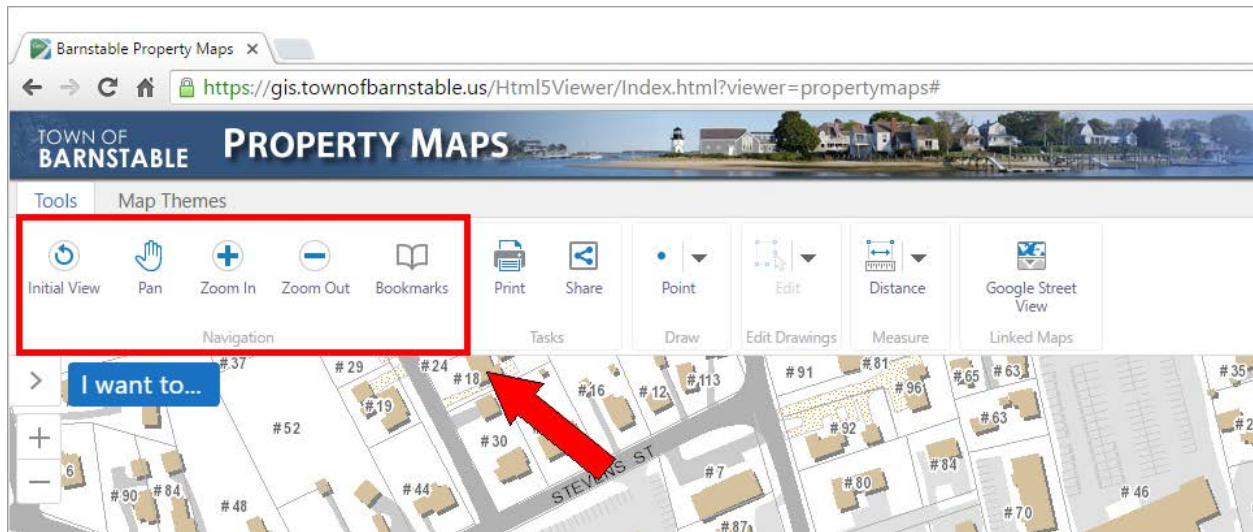






Figure 37 - Navigation Tools

-   
Initial View     **Initial View** – Clicking on this tool will return the map to a town-wide map view.
  
-   
Pan     **Pan** – Slides the map view in any direction by clicking and dragging the map.
  
-   
Zoom In     **Zoom In** – Click and drag to draw the area of interest. The map will zoom to that location.
  
-   
Zoom Out     **Zoom Out** - Click and drag a rectangle to zoom out, keeping the area of interest centered.





**Bookmarks** - Click to save a bookmark of the current map extent, or to retrieve a previously saved bookmark.

## Tasks

The second group of tools, labeled “Tasks”, includes the “Print” tool described previously, as well as the “Share” tool (Figure 38).

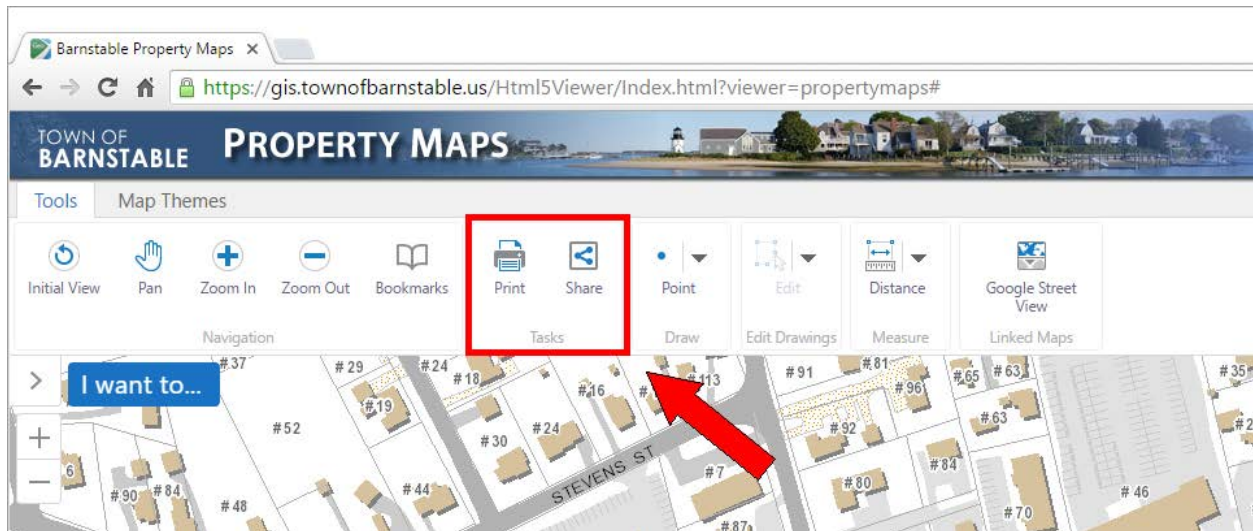


Figure 38 - Tasks



**Print** – Activates the Print Map tool as described previously.



**Share** – Generates a link to the current map view sharable via email or social media.

## Drawing Tools

The next two groups of tools, labeled “Draw” and “Edit Drawings” allow you to add your own text and drawings to the map (Figure 39). This can be useful to highlight a particular item on the map or to add your own labels.

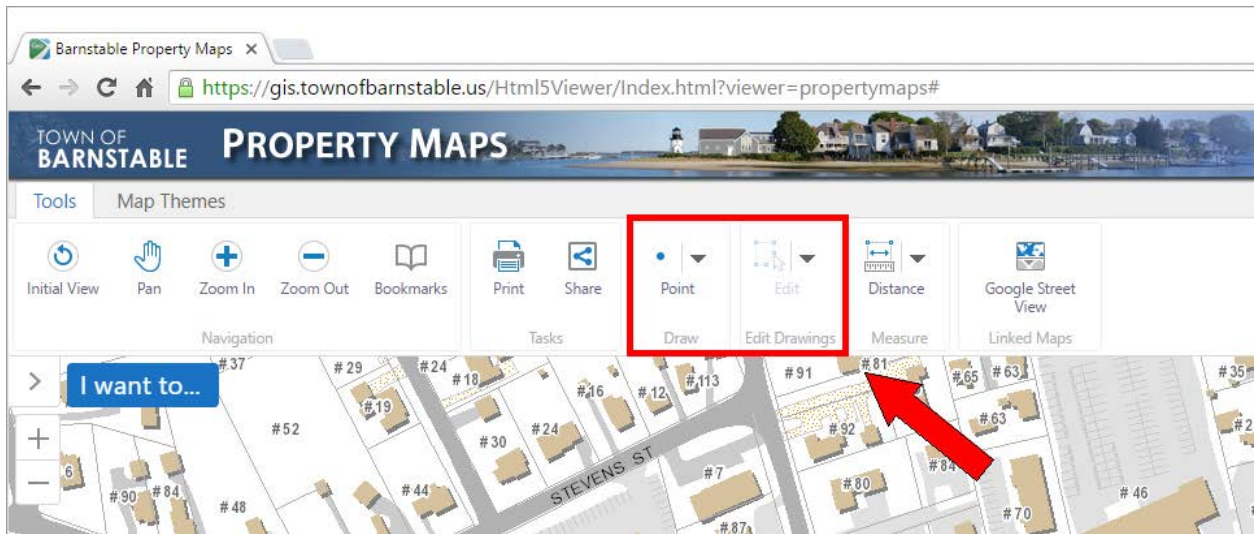


Figure 39 - Drawing Tools

## Draw

Clicking on the “Draw” tool will open a menu to select the type of element to add to the map. Choices include Point, Text, Line, Circle, Rectangle, and several others (Figure 40). After selecting the type of element, a prompt will appear at the bottom of the map with instructions on how to use the tool (Figure 41).

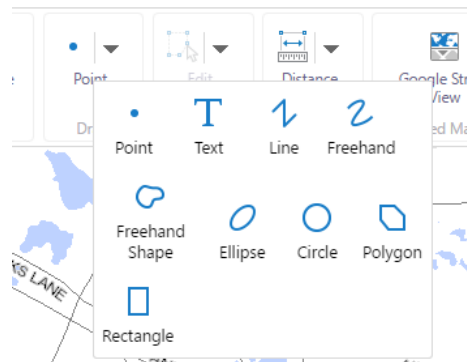


Figure 40 - Selecting the Type of Drawing



Figure 41 - Prompt with Drawing Instructions

For each of the drawing types (Text, Rectangle, etc.) there are multiple colors and styles to choose from. To select a drawing style, click on the “*Styles*” button (Figure 42) and select a style (Figure 43).

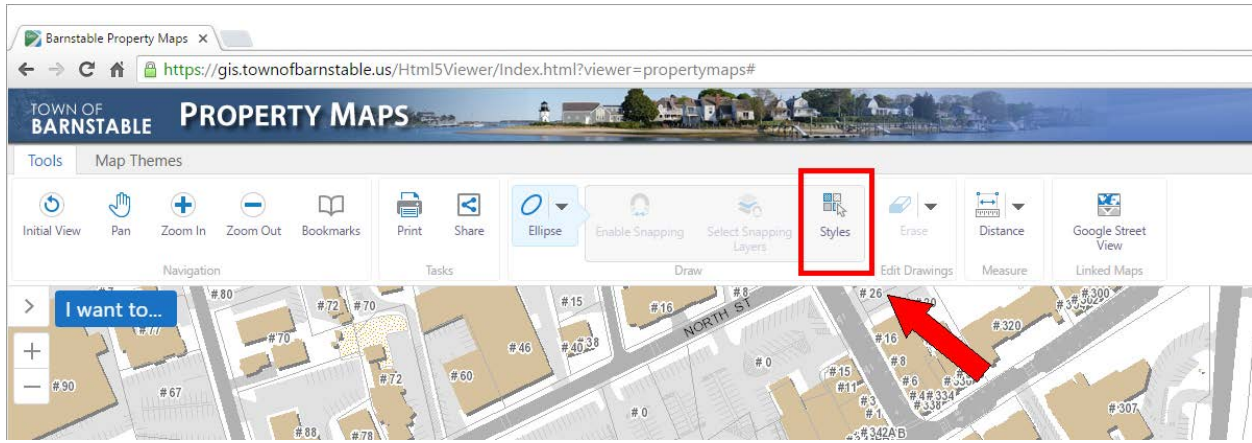


Figure 42 - Opening the Styles Menu

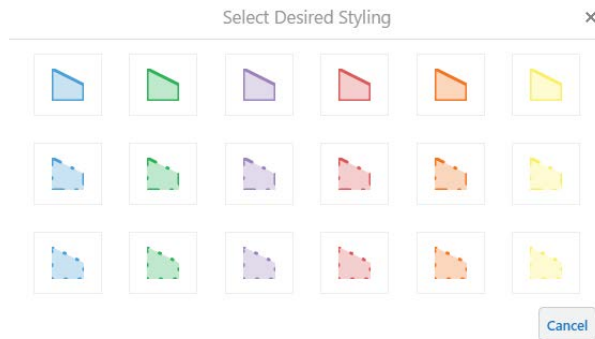


Figure 43 - Selecting a Drawing Style

## Edit Drawings

After drawing elements on the map, the “*Edit Drawings*” tool can be used to edit or erase drawings that you have placed on the map (Figure 44).

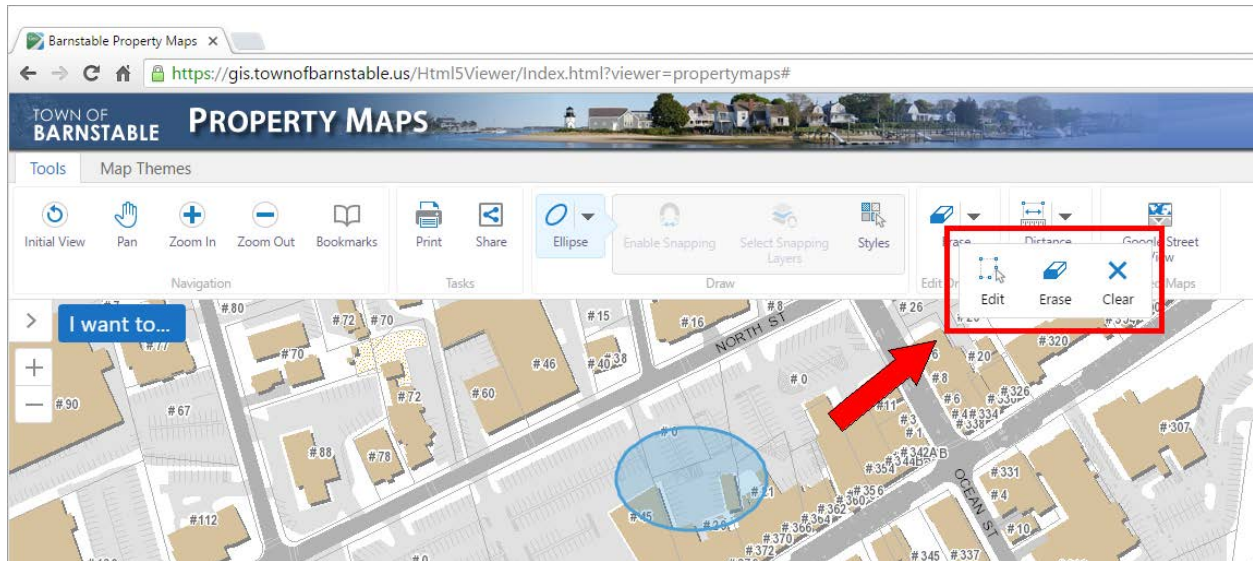


Figure 44 - Edit Drawing Tools



Edit

**Edit** – Click to modify a drawing that has already been placed on the map. Follow the prompts at the bottom of the screen for instructions.



Erase

**Erase** – Deletes individual drawing elements that you have placed by clicking on the erase tool, then clicking on the element to be erased.



Clear

**Clear** – Deletes ALL of the drawing elements from the map with one click.

## Measuring Tools

The next group of tools, labeled “Measure” includes tools for measuring distances and areas on the map (Figure 45).

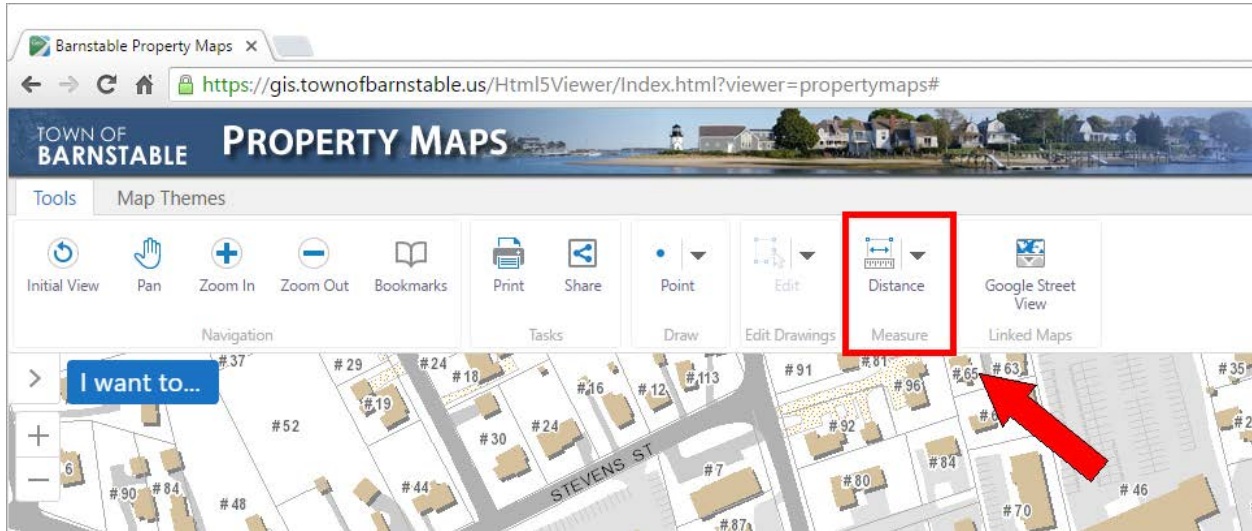


Figure 45 - Measuring Tools

Clicking on the drop down arrow next to the Measure tool allows the choice of measuring a linear distance or an area (Figure 46).

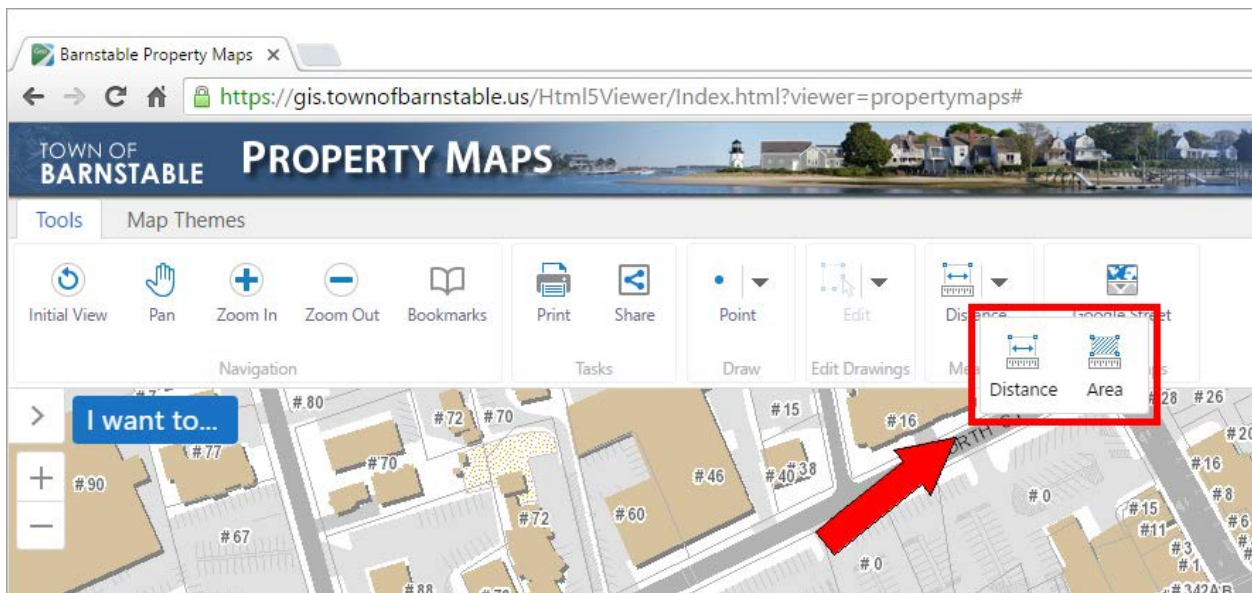


Figure 46 - Selecting Distance or Area Measurement

Once the type of measurement is selected, there are options available for choosing different units of measurement (Figure 47).

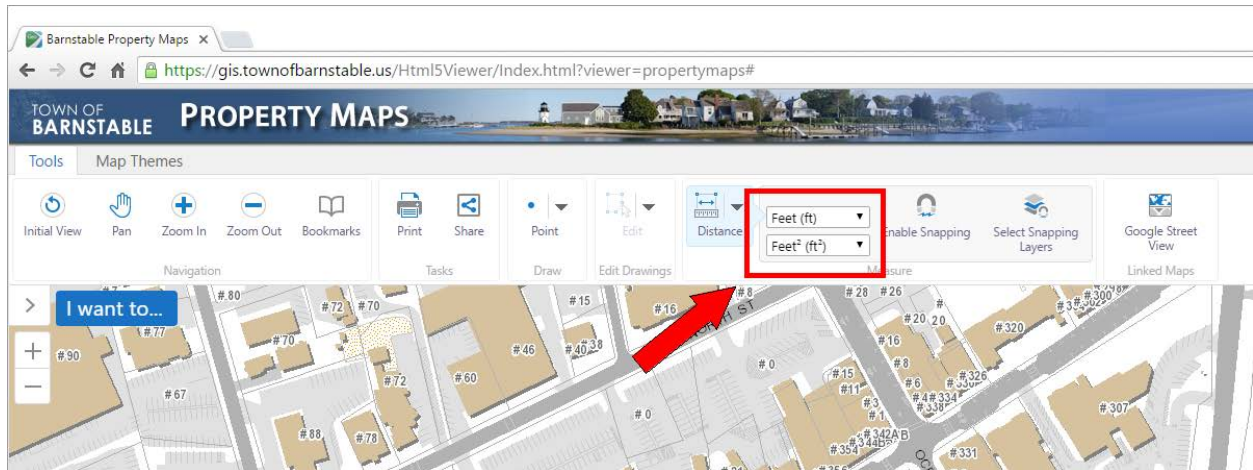


Figure 47 - Selecting Measurement Units

Follow the prompts at the bottom of the map to complete the measurement. In general, you will click once on the map to enter the first measurement point, then click again for each additional point, and then double-click to end the measurement and display the results (Figures 48 & 49).

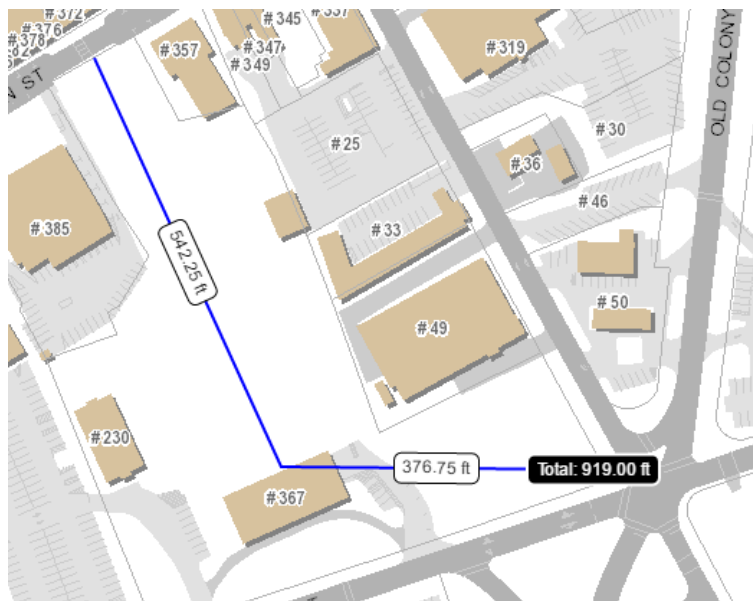


Figure 48 - Measuring a Distance

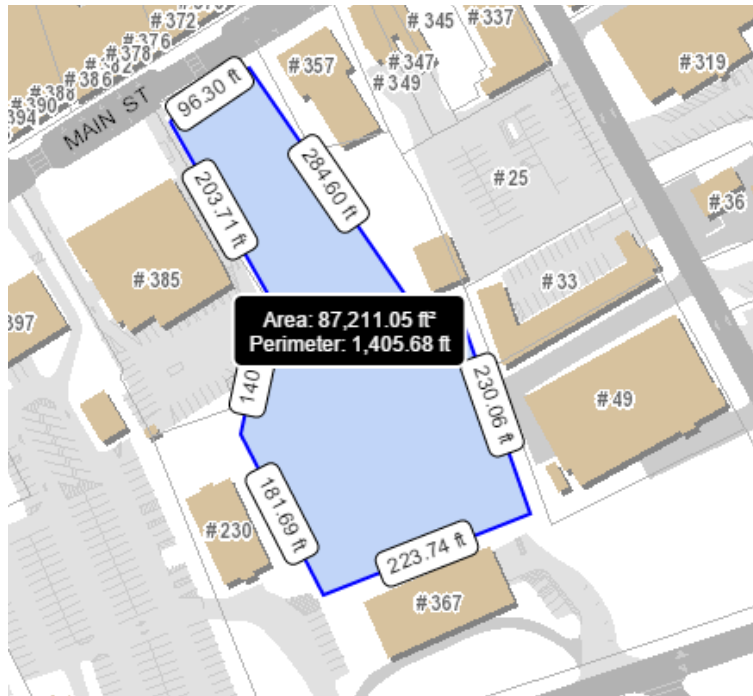


Figure 49 - Measuring an Area

### Google Street View

The last tool on the toolbar provides access to Google Street View images for a selected location on the map (Figure 50). This tool displays panoramic street level photographs along many streets in Town. Clicking on this tool will open a split-screen view, with the map displayed on the top of the screen, and the street level photos displayed in the lower section (Figure 51).

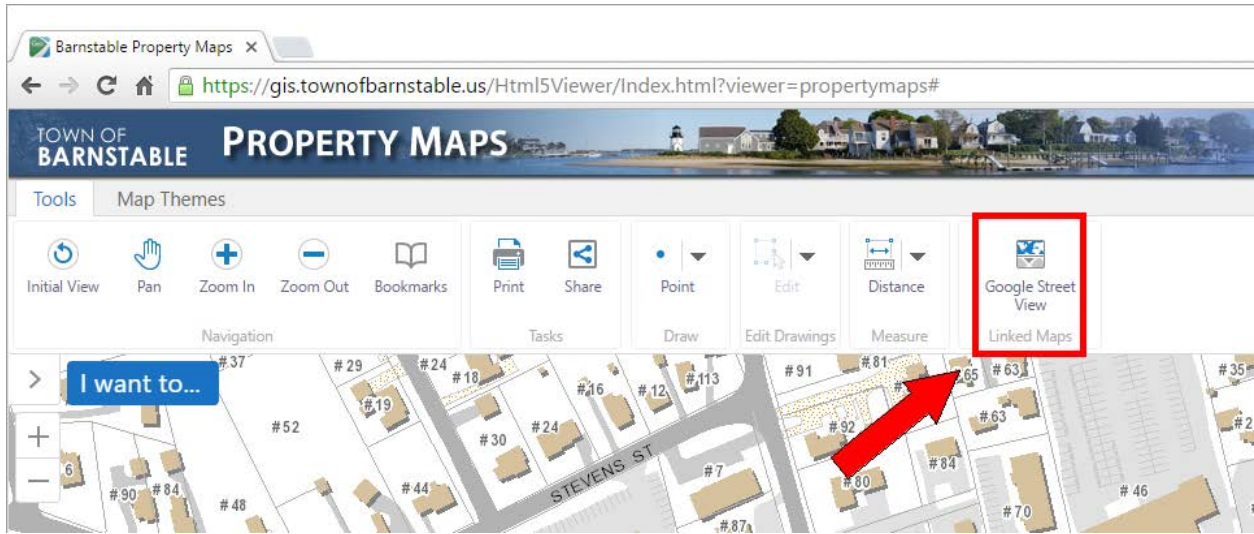


Figure 50 - Accessing the Google Street View Tool

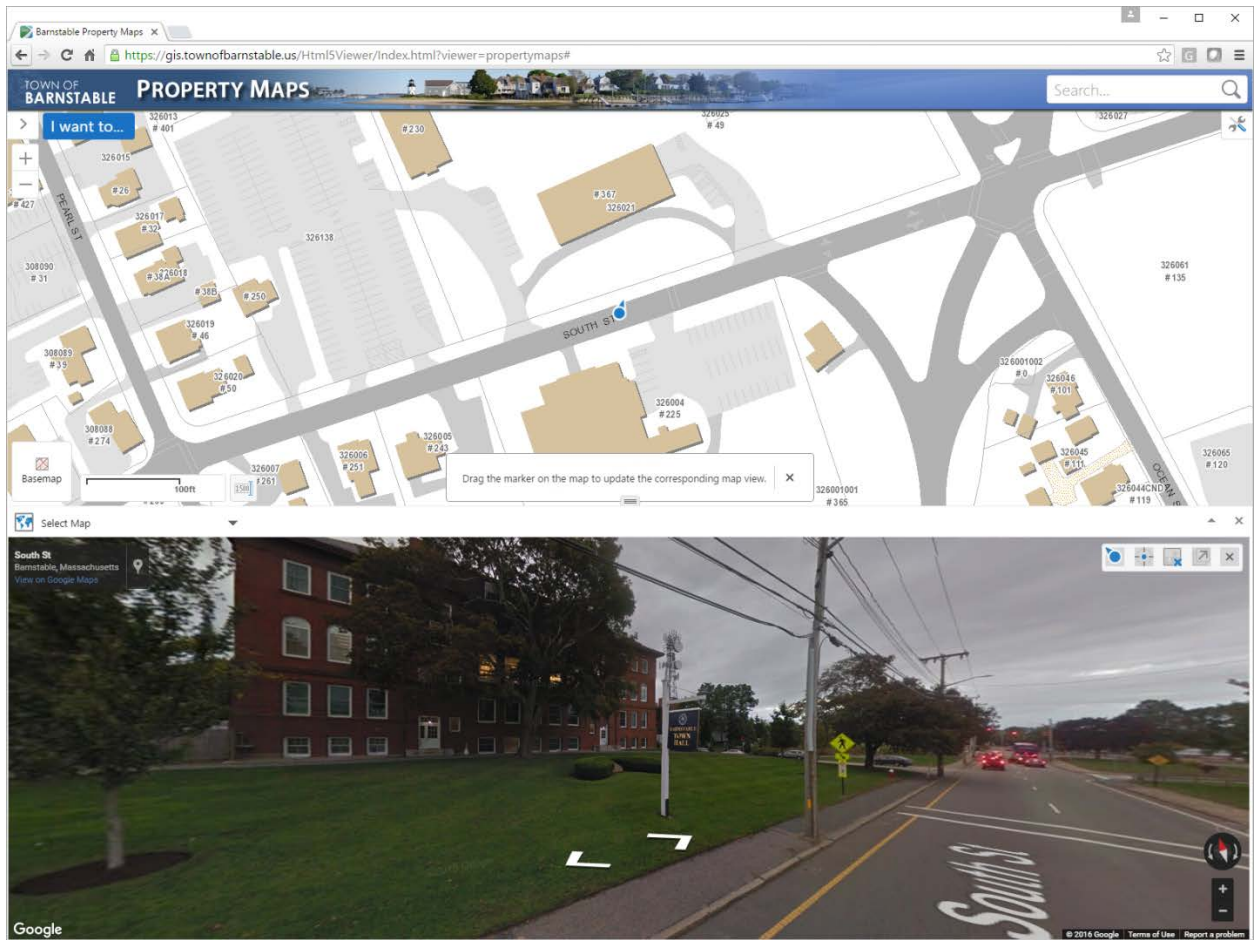


Figure 51 - Split Screen with Google Street View



In the lower Google Street View window, you can navigate along streets by clicking on the white “>” arrow buttons in the image (Figure 52). Clicking and dragging within the Street View image will pan your view around to look in different directions. The Street View images can also be zoomed in or out with the mouse wheel.



Figure 52 - Street View Navigation Arrows

The map and the Street View windows are linked. As you navigate around in the bottom Street View window, notice that in the upper map window there is a blue dot and arrow that indicate your current location and viewing direction (Figure 53). As you navigate down a street using Street View, the blue dot will follow along and indicate your location on the map.

Similarly, you can click and drag the blue dot (viewpoint indicator) around the map, and the Street View window will move to the new location. Note that Street View images are not available everywhere in Town. The images may not be available along some smaller, secondary roads.

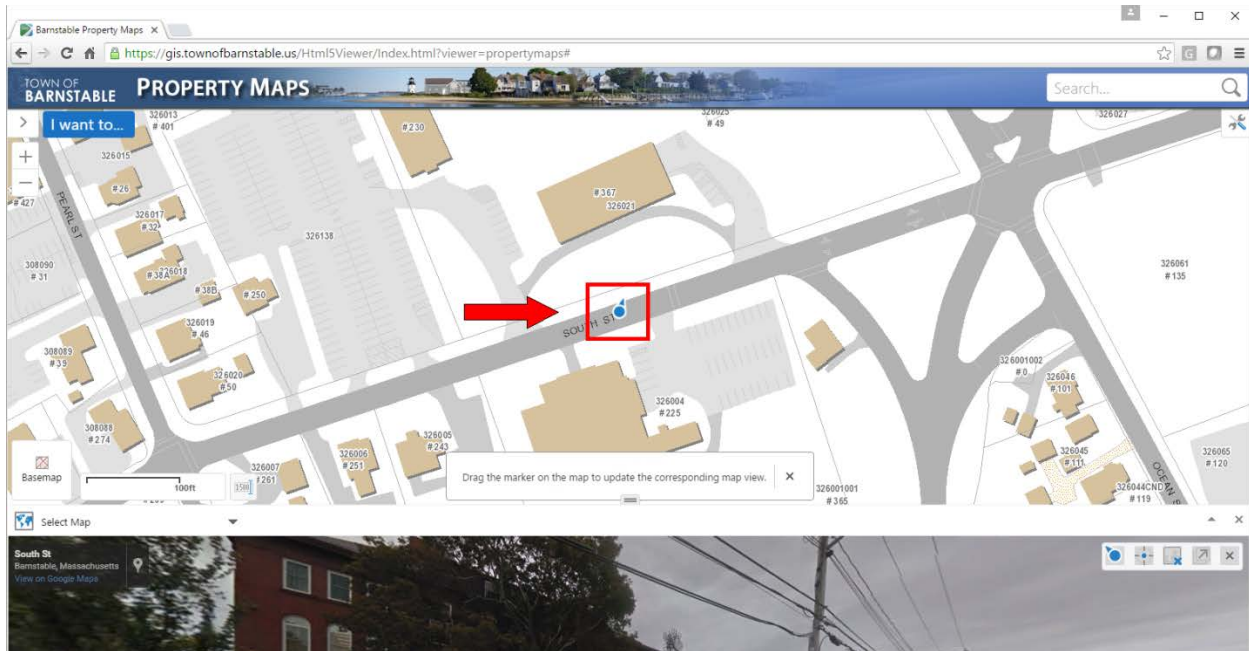


Figure 53 – Viewpoint Indicator Showing Street View Location and Direction

**TIP:** While in the split-screen view, it may be helpful to close the map toolbar if it's still open. Closing the toolbar will free up some screen space and allow for a larger viewing area of the map and Street View windows.

The split-screen windows can also be resized to make either the map window or the Street View window larger. Click and drag the resizing handle located in the center of the dividing frame between the two views (Figure 54). Also the Street View window can be expanded to fill the screen by clicking the “Maximize” button (Figure 55).

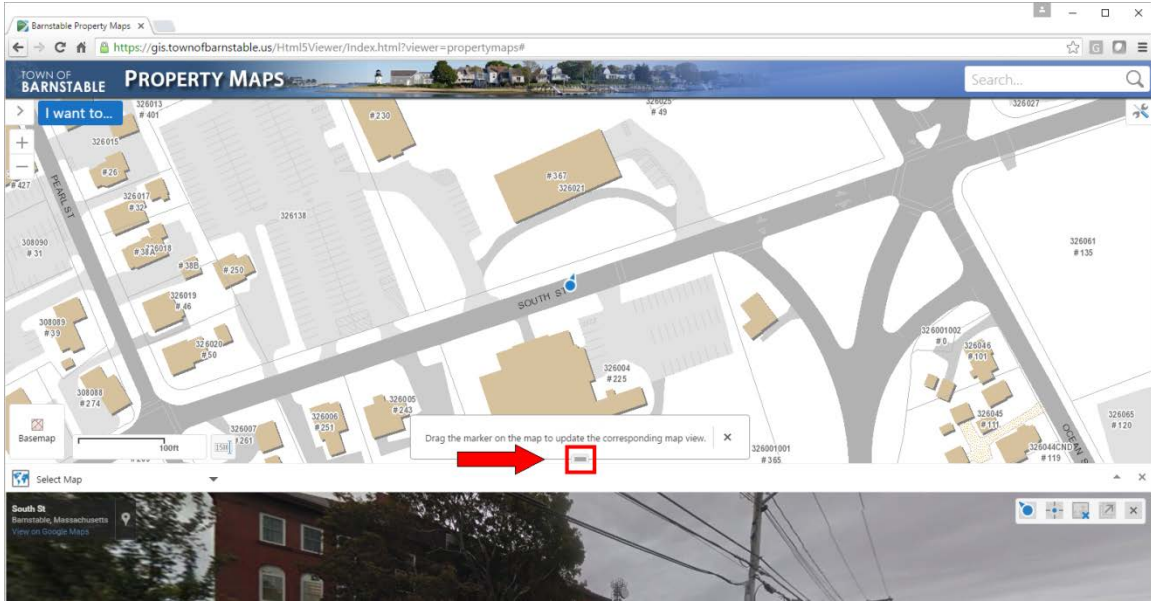


Figure 54 - Resizing Handle for Adjusting Size of Split-Screen View

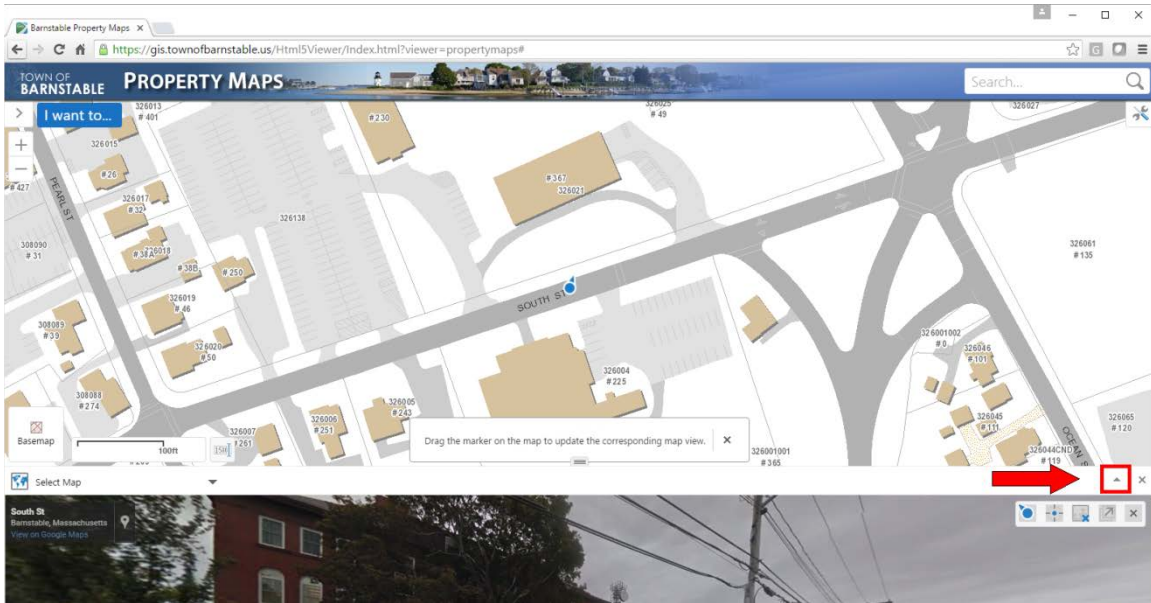


Figure 55 - The Maximize Button

There are some additional Street View tools located in the upper right corner of the Street View Window (Figure 56).

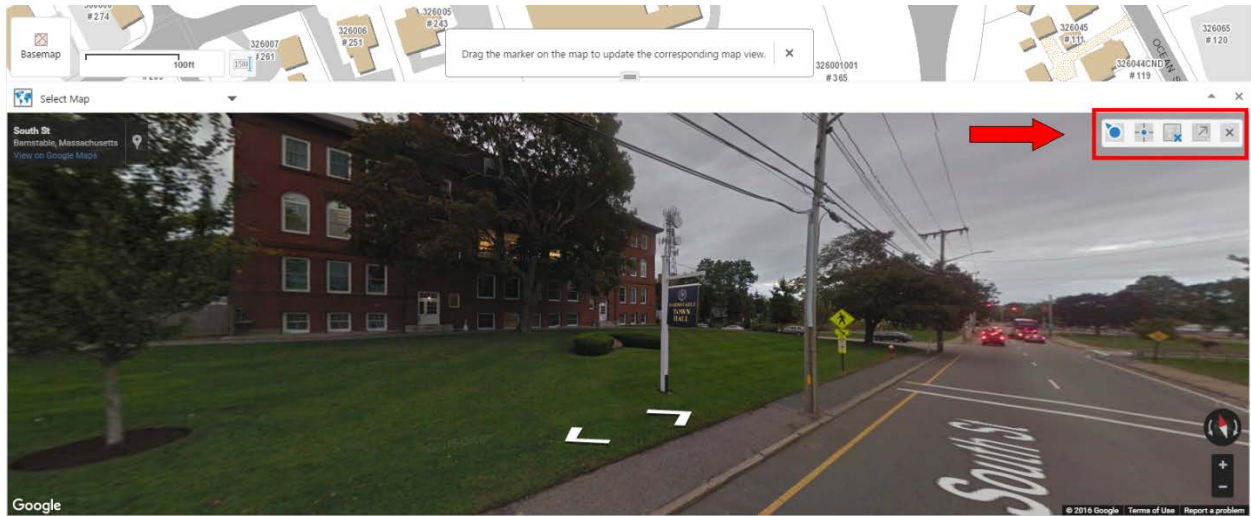


Figure 56 - Additional Street View Tools

These additional tools are described below.



**Viewpoint Indicator** – The viewpoint indicator is already turned on by default.



**Center Map to the Viewer** – Centers the viewpoint indicator to the center of the map.



**Synchronize Maps** – Clicking this button will cause the upper map display to automatically pan along and follow your navigation in the Street View window.



**Open in New Window** – Opens Street View in a new browser tab.



**Close View** – Closes the Street View window.

## Other Toolbar Tabs – Map Themes

All of the tools described above are located on the default “Tools” tab of the toolbar. Notice that above the toolbar is an additional tab called “Map Themes” (Figure 57).

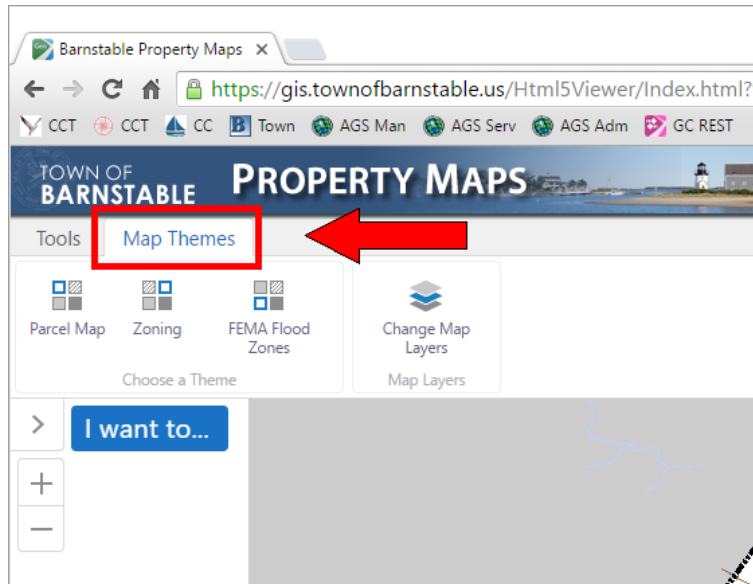


Figure 57 - The "Map Themes" Tab of the Toolbar

Clicking on this tab brings up several tools related to Map Themes as an alternate way to switch between the different map themes (Figure 58). Clicking on a Theme’s button will activate that theme’s layers on the map. If you’d like to change which layers are visible within the current Map Theme, click on the “Change Map Layers” button as a shortcut to the Layer List.

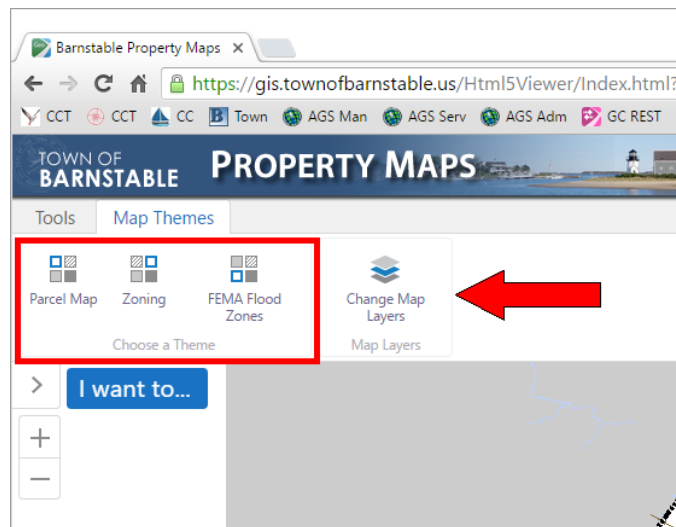


Figure 58 - Selecting a Map theme

# Tablets and Mobile Devices

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With the increasing prevalence of tablets and smartphones, this application has been developed with mobile devices in mind. The user experience across all platforms and devices is very similar if not identical. And for mobile devices with built-in GPS, there are additional location-aware tools to optionally make use of your device's location.

## Using the Geolocation Tools

When using the application on a tablet, there is a "Geolocation" button located in the upper left corner of the map above the "+" and "-" zoom in/out buttons (Figure 59).

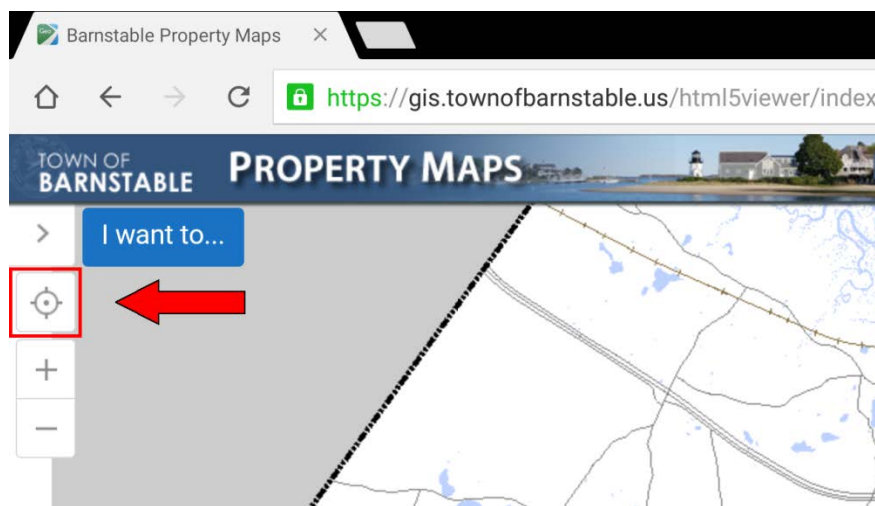


Figure 59 - The Geolocation Button on a Tablet

When using the application on a smartphone, the "Geolocation" button is located in the lower left corner of the map (Figure 60).

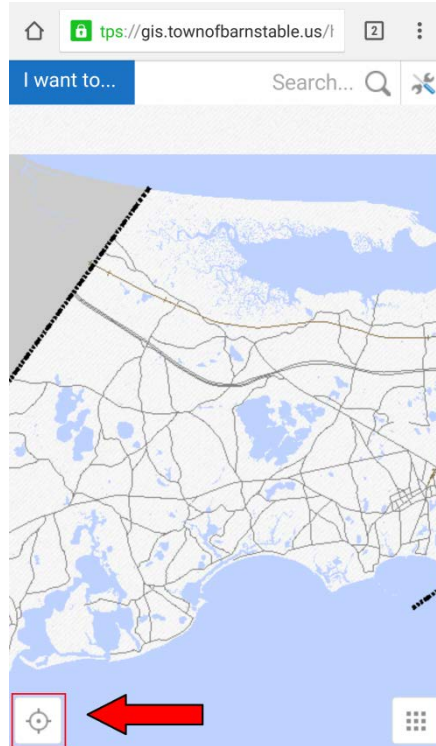


Figure 60 - The Geolocation Button on a Smartphone

Clicking on the *Geolocation* button will bring up a choice of three different modes for finding your location (Figure 61).

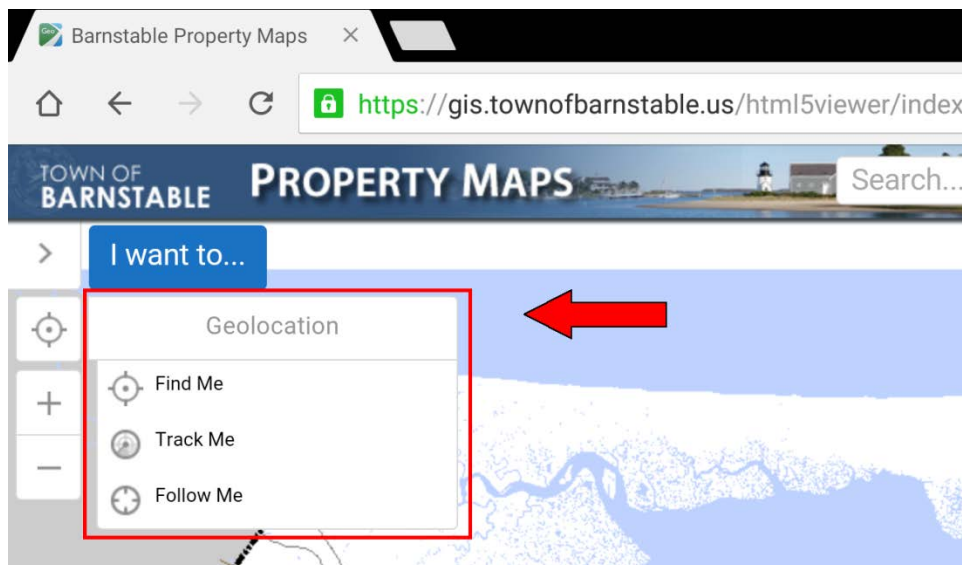


Figure 61 – Modes for Geolocation



**Find Me** – Using the “*Find Me*” mode, the map will move to the user’s location and mark the location with a blue indicator dot (Figure 62). The size of the shaded circle surrounding the indicator gives an approximate measure of how accurate the current location is. The larger the circle, the less accurate the location is. A number of factors can affect the accuracy including GPS signal strength, nearby obstructions like tall buildings or trees, and network connectivity.



**Track Me** – Using the “*Track Me*” mode, the user’s location will be marked with a blue indicator dot. The map itself will not automatically pan / move, but the indicator dot will move along as the user’s location changes. As above, the larger shaded circle surrounding the indicator gives an approximate measure of the locational accuracy.



**Follow Me** – Using the “*Follow Me*” mode, an indicator dot is again placed at the user’s location, but this mode will automatically follow the user’s location and pan the map as the user’s location changes. As above, the larger shaded circle surrounding the indicator gives an approximate measure of the locational accuracy.

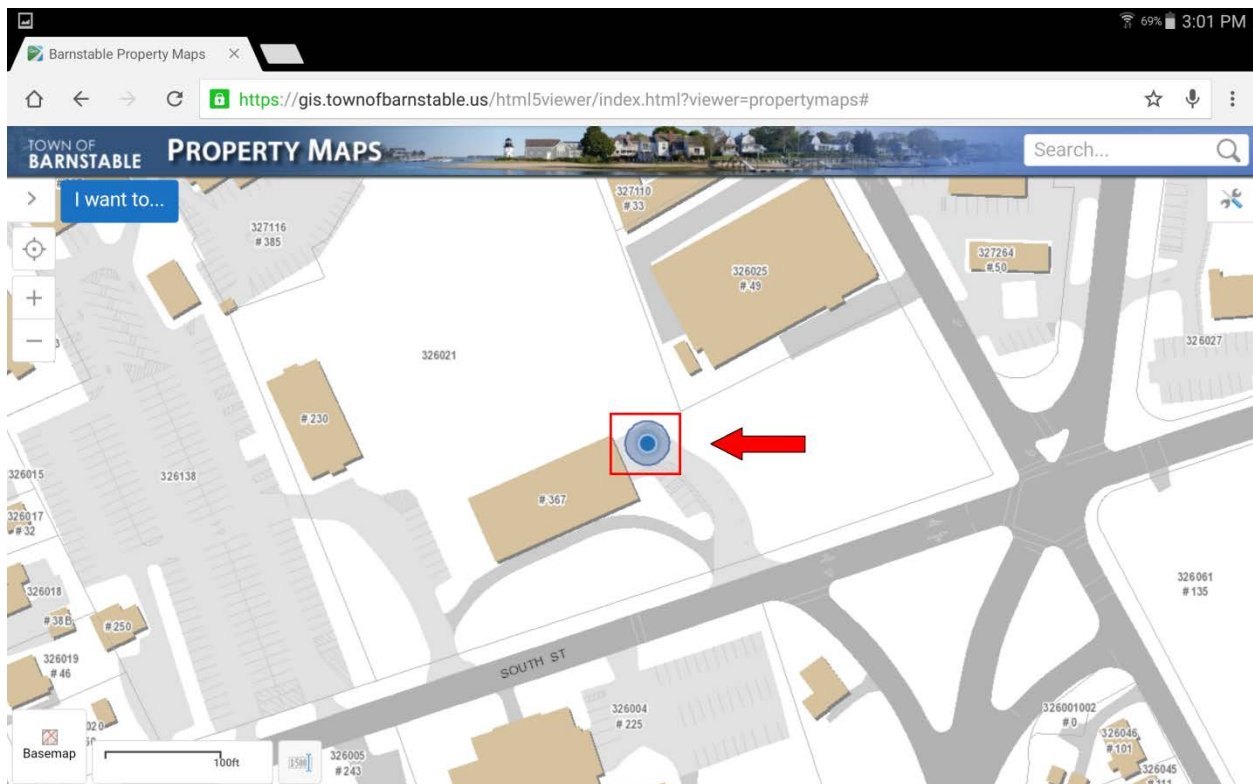


Figure 62 - Location Indicator Dot with Approximate Accuracy Circle