

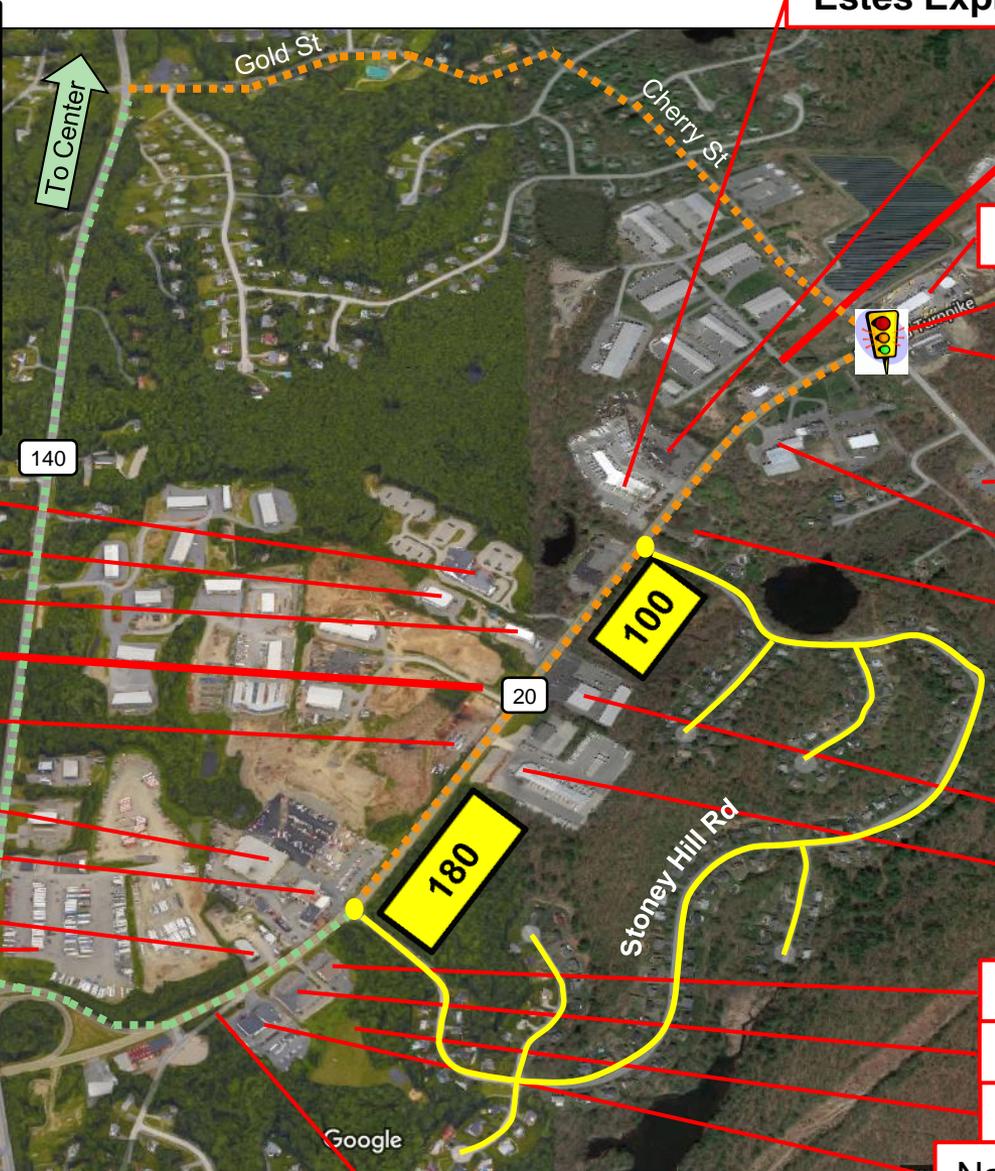
**Stoney Hill Rd
Traffic & Road Changes
Neighborhood feedback**

12/28/15

Stoney Hill satellite view



2 Industrial Parks
 UPS Hub
 5 Trucking companies
 Common Trucking route
 Close to Rt 140
 Close to Commuter Rail
 School travel is up 140 N
 Alternative roads aren't good



Estes Express Lines

C/J Trucking

Hills Farm Industrial Park

AA Transportation

Centech light

Season's Market

Fire Station

Hebert Candies

Surveys Analysis

Kamco Supply

YRC Freight

Stoney Hill Plaza

Walter's Car Wash

Stoney Hill Park

Napa & Knights Limo

Liberty Church

Midstate Kitchen

Duva Distributors

Russell Industrial Park

Bark Unlimited

MHQ Truck Equip

TriState Trucking

Pete's Tire Barn

Truck Parking Lot

UPS Hub

Flynn's light

Rt 140 & 20 ramp

Clews St



Google

To Center

Gold St

Cherry St

Stoney Hill Rd

Ford Turnpike

140

20

100

180

Stoney Hill East End

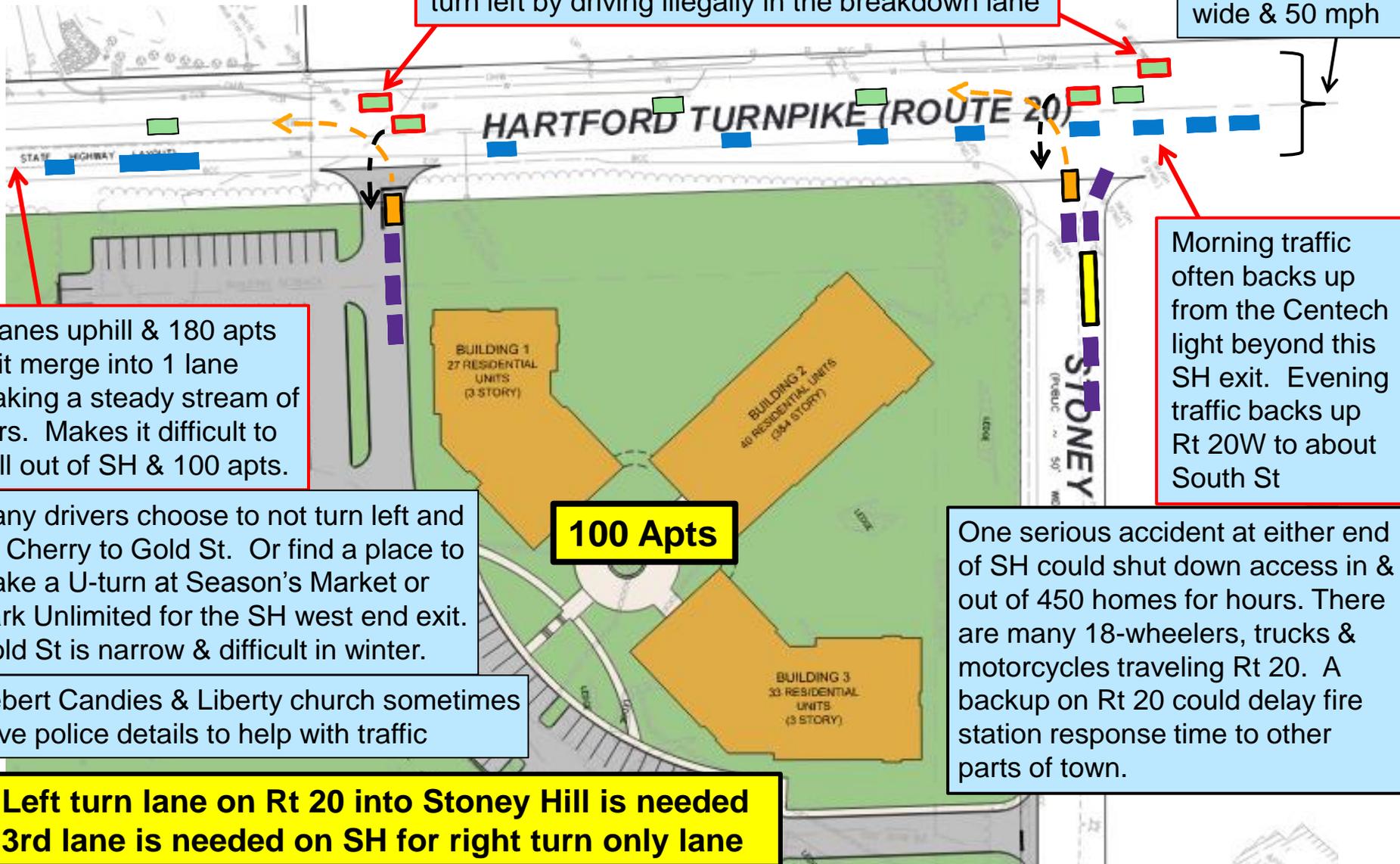
Imagine you're an orange car trying to turn left 

* Example school bus 



Cars & trucks speed pass the cars waiting to turn left by driving illegally in the breakdown lane

Rt 20 is 2 lanes wide & 50 mph



Morning traffic often backs up from the Centech light beyond this SH exit. Evening traffic backs up Rt 20W to about South St

2 lanes uphill & 180 apts exit merge into 1 lane making a steady stream of cars. Makes it difficult to pull out of SH & 100 apts.

Many drivers choose to not turn left and go Cherry to Gold St. Or find a place to make a U-turn at Season's Market or Bark Unlimited for the SH west end exit. Gold St is narrow & difficult in winter.

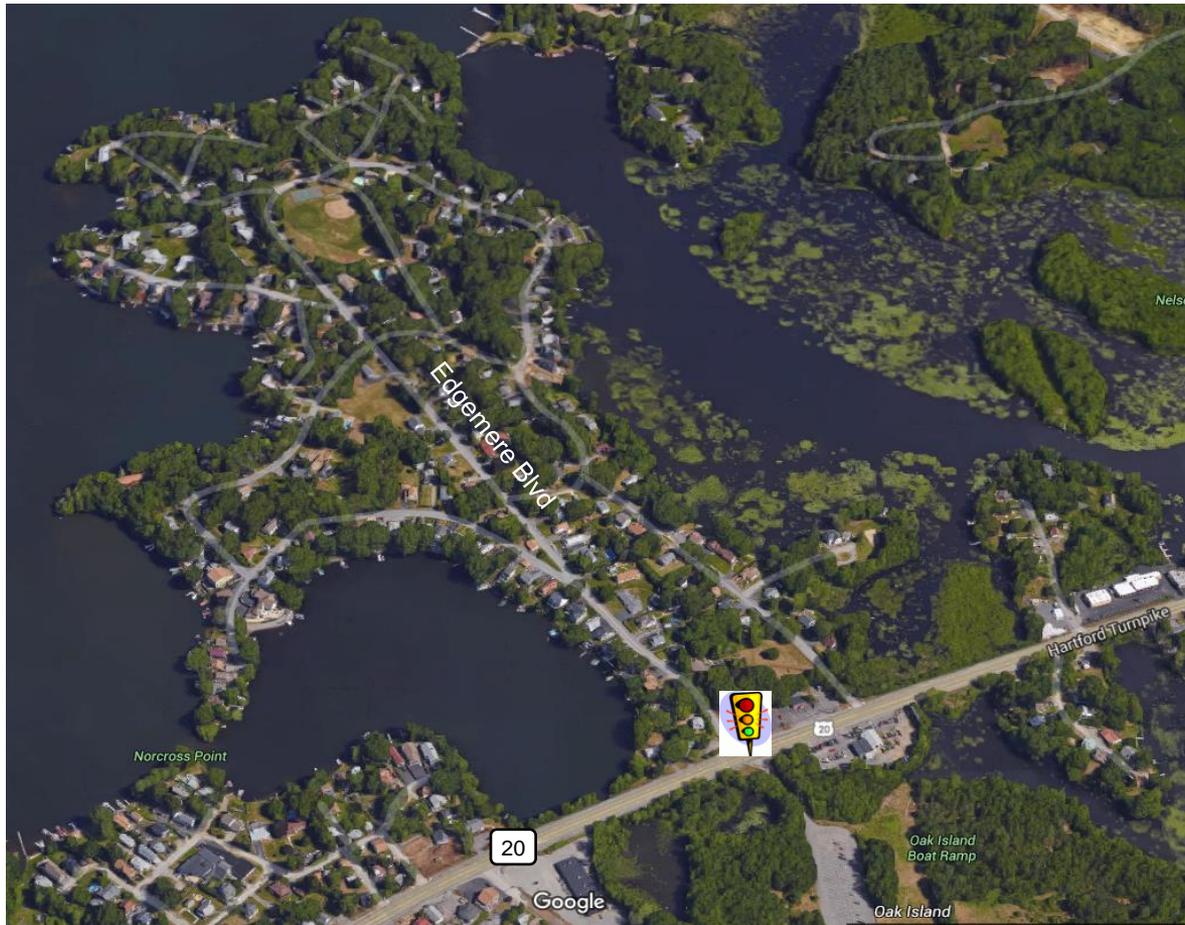
Hebert Candies & Liberty church sometimes have police details to help with traffic

100 Apts

One serious accident at either end of SH could shut down access in & out of 450 homes for hours. There are many 18-wheelers, trucks & motorcycles traveling Rt 20. A backup on Rt 20 could delay fire station response time to other parts of town.

- Left turn lane on Rt 20 into Stoney Hill is needed
- 3rd lane is needed on SH for right turn only lane

Example Edgemere Blvd & Rt 20 light



- Existing pressure sensitive light at Edgemere Blvd & Rt 20
- 1.8 miles from Stoney Hill West End – so similar traffic
- Serves ~240 houses
- Stoney Hill will have 450 houses & apartments
- Speed limit is 40 mph at Edgemere Blvd

Tetra Tech Traffic Study info

Traffic signals are difficult to justify on state highway at locations in which the minor street services either residential or office development. In these cases, traffic volumes on the minor street approach are typically high enough in only one or two hours to meet the criteria of the warrant. **Occasionally, MassDOT may allow installation of a traffic signal if traffic volumes in at least six of the eight hours meet the criteria, and if there are other circumstances which would be improved by a traffic signal, such as a safety issue or long delays for motorists on the minor street. The Route 20/Stoney Hill Road (west) intersection meets the criteria for only two hours, the average delays are not excessive and it does not have a high crash rate** (see Section 4.0 Intersection Capacity Analyses and Section 5.0 Safety Analysis). Therefore, it is unlikely that MassDOT would allow installation of a traffic signal at this location

- I'm not sure why 6 hrs is needed. If its unsafe for the commuter traffic isn't that enough? This is when many people will need a light for work or school.
- Did the Edgemere Blvd traffic light fit this requirement?
 - It seems Rt 20 & Stoney Hill West would have about the same traffic flow
- It seems that Stoney Hill West meets the criteria for high traffic for at least 2hrs in the morning (7-9am) and 2hrs at night (4-6pm). Other times are also not easy to pull out safely.
 - Even before additional 180 apts are developed & more lanes added to Rt 20.

Reference: Traffic Impact and Access Study

<https://shrewsburyma.gov/DocumentCenter/Home/View/1460>

Example Walnut St & Rt 20

Similar to proposed Stoney Hill West End exit

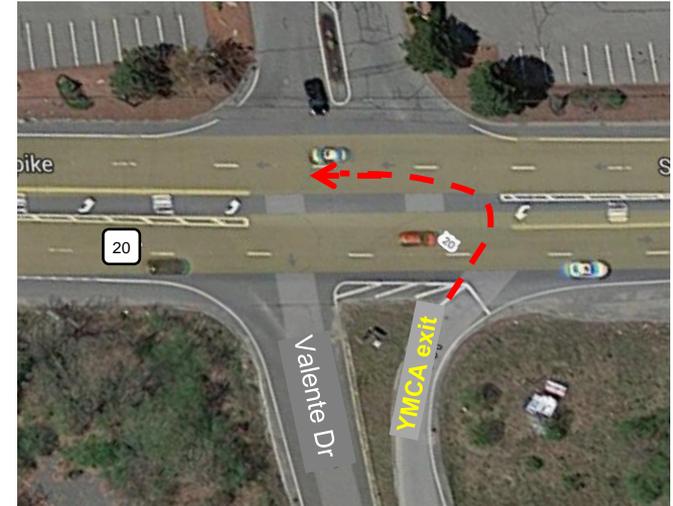
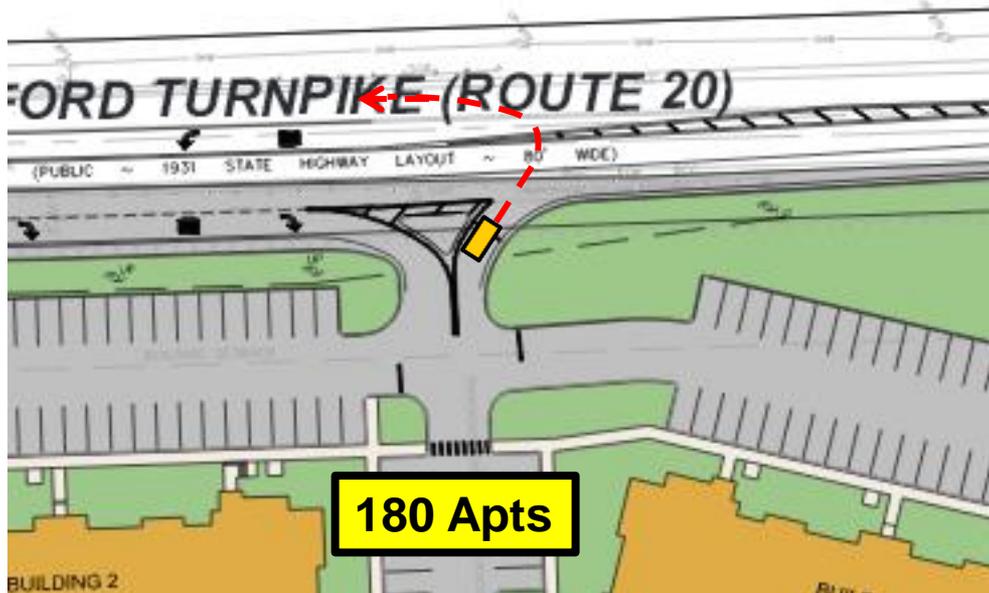


- Walnut St neighbors say there are several accidents and screeching tires every week
- Depending on traffic, they will take a right to go toward center of town instead of a left
- Rt 20 at this location has 2 westbound lanes to help cars swerve around close accidents during Walnut St left pull outs.
- Stoney Hill West will have only 1 Rt 20 westbound lane which makes it difficult for cars & trucks traveling downhill to swerve and avoid cars pulling out onto Rt 20W
- Often cars pull onto yellow island and wait there to turn left – is this safe?

An example of an unsafe or marginally safe design to left turn onto Rt 20W

Example Right turn only at YMCA exit

Similar to proposed 180 apts right turn only onto Rt 20E



- Many illegal left turns out of YMCA right turn only exit & and has many accidents
- Could also happen at the 180 apts right turn only exit
 - YMCA illegal left turn is more dangerous, yet drivers still do it
- Especially if the Stoney Hill West exit doesn't have a traffic light and the left turn waiting time is long

Summary

- Rt 20 near Stoney Hill has
 - High traffic & many business
 - High concentration of 18-wheelers traveling & turning in this area
 - Clustered traffic from being between Centech and Flynn traffic lights
- Difficult to exit SH West by crossing 4 lanes wide, avoiding Rt 20 left turn only cars and then merging into 50 mph traffic
- Stoney Hill West End needs
 - Pressure sensitive traffic light
 - 3rd lane on Stoney Hill for right turn only exit
- Stoney Hill East end needs
 - Left turn lane on Rt 20 into Stoney Hill
 - 3rd lane on Stoney Hill for right turn only exit

Appendix

Stoney Hill



Stoney Hill West end



Stoney Hill West end



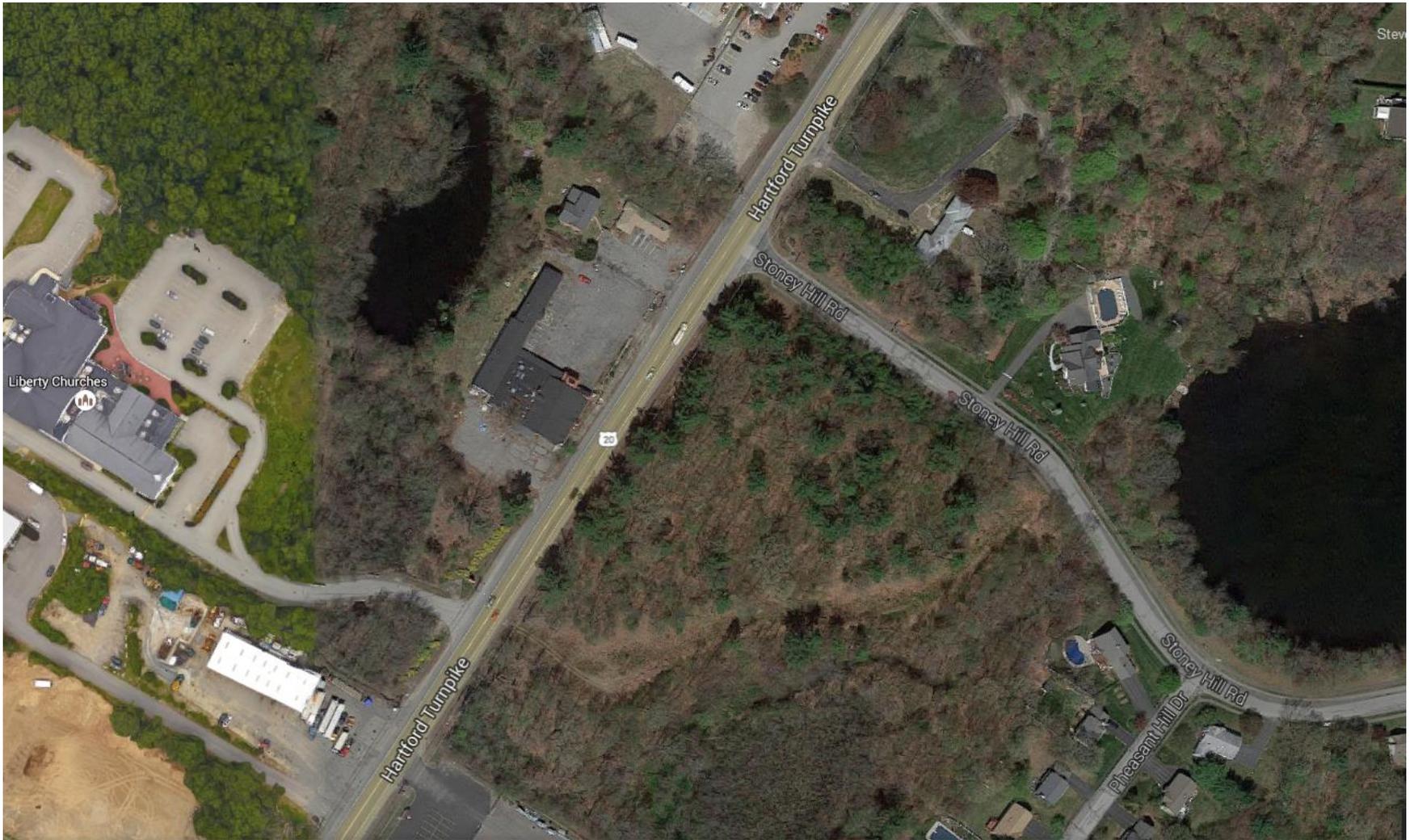
Stoney Hill West end



Stoney Hill east end



Stoney Hill east end



Stoney Hill east end



Stoney Hill West end driving Rt 20 East



Stoney Hill west end driving Rt 20 East



Stoney Hill west end looking west



Stoney Hill west end looking east

