

Board of Selectman  
June 1, 2015

THESE MINUTES ARE SUBJECT TO APPROVAL BY BOARD OF SELECTMEN

The Board of Selectmen held a regular meeting Monday, June 1, 2015 in the Council Chamber of the Municipal Center, Newtown. First Selectman Llodra called the meeting to order at 7:31pm.

**PRESENT:** First Selectman Llodra, Selectman William F.L. Rodgers, Selectman James O. Gaston, Sr. (7:35pm)

**ALSO PRESENT:** Town Engineer Ron Bolmer, Director of Public Works Fred Hurley, Chairman of Sustainable Energy Kathy Quinn, Director of Land Use George Benson, Community & Economic Development Coordinator Betsy Paynter, Chairman of the Sandy Hook Permanent Memorial Commission, Kyle Lyddy, three members of the public and two members of the press.

**VOTER PARTICIPATION:** none.

**ACCEPTANCE OF THE MINUTES:** Selectman Rodgers moved to accept the minutes of 5/18/15. First Selectman Llodra seconded. All in favor.

**COMMUNICATIONS:** none.

**FINANCE DIRECTOR REPORT:** First Selectman Llodra shared material she and Finance Director Robert Tait put together relative to the search for a pension advisor.

**NEW BUSINESS:**

**Discussion and possible action:**

- Road & Drainage work agreement, Robin Hill Rd., The Preserve at Newtown Open Space Conservation Subdivision:** Mr. Bolmer was present to explain that as part of the agreement the applicant is required to widen the road and put in additional drainage. The drainage will be the standard catch basins. The cul de sac will be complete. Selectman Rodgers moved to authorize the First Selectman to enter, on behalf of the Town of Newtown, the Road & Drainage Work Agreement, Robin Hill Road, "The Preserve at Newtown Open Space Conservation" Subdivision as per the memo from Ron Bolmer, Town Engineer, dated May 21, 2015. Selectman Gaston seconded. All in favor.
- Economic Development presentation/update:** Betsy Paynter was present to discuss the seven business districts (Att.) Mr. Benson will be meeting with persons to discuss daylighting the stream underneath the property at 75 Church Hill Road. The Economic Development Commission has been helpful in working with the Land Use Department.
- Blight property update:** Mr. Benson was present to discuss active and closed blight cases saying any effort to involve the court is not to do harm; in some cases there is a health and safety concern. (Att)
- Permanent Memorial Commission update:** Mr. Lyddy was present to update the board on the Permanent Memorial Commission (Att.) saying it is an emotional and rewarding process. The commission members are very committed to making this a reality for what's right for the families and the community at large. It has been very deliberative. The Board of Selectmen agreed this is not a time driven process and there is no pressure to move quicker. The process is being carefully managed.
- Electric Vehicle Charging Stations discussion:** Ms. Paynter, Mr. Hurley, Ms. Quinn and resident Jeffery Jorgenson, 15 Washbrook Road, Newtown, were present to discuss electric vehicle charging stations (Att). The map shows the need for charging stations off of I84 and on Rte. 25. A stipulation of the grant is that the stations must be on municipal property, which would make the Edmond Town Hall or Fairfield Hills options. The Fairfield Hills Authority and the Sustainable Energy Commission will help with the grant. Selectman Rodgers suggested including Christal Preszler also. The funding increases when more criteria are met. There are three levels of charging, level 2 (about a four hour charge) is about 98% of what will be seen in the marketplace. First Selectman Llodra's preference is to have it near a commercial area; the grant is specific to municipal property. Mr. Jorgenson said the EV driver plans the day around where they can charge. Ideally

Rec'd. for Record 6-3 2015  
Town Clerk of Newtown 9:30am  
Debbie Aurelia Halstead

the spot would be retail, movies, and restaurants. Fairfield Hills would be a good location because of the Newtown Youth Academy; the Edmond Town Hall has lunch areas and the movie theater. The grant would lean more toward Fairfield Hills. Ideally, several sites would make it more convenient and there will be more grant opportunities. The town will own the charging stations. Mr. Jorgenson suggests getting a 'smart' charging station, which shows how often it is used, what hours it's being used, what kind of draw is happening and what type of vehicle is being charged. The grant covers a level 2 station. The first three years are at no charge. First Selectman Llodra asked that the group come back to the board, prior to submitting the grant, with solid figures as the financial impact needs to be known. Mr. Jorgenson has spoken to local businesses as he is in the business of Electric Vehicles. The units are not profit making, however retailers report increase in sales because people spend more time in the shops. This is a service for the community. Selectman Rodgers suggests putting in at Fairfield Hills because the Borough requires extra steps for approval and this grant is time sensitive.

6. **Resolution:** Selectman Rodgers moved the Resolution Adopting The Town of Newtown Hazard Mitigation Plan: RESOLVED by the Board of Selectmen: 1.) The plan is hereby adopted as an official plan of the Town of Newtown; 2.) The respective officials identified in the mitigation strategy of the Plan are hereby directed to pursue implementation of the recommended actions assigned to them; 3.) Future revisions and Plan maintenance required by 44 CFR 201.6 and FEMA are hereby adopted as a part of this resolution for a period of five (5) years from the date of this resolution. 4.) An annual report on the progress of the implementation elements of the Plan shall be presented to the Board of Selectman. Selectman Rodgers further waived the reading of the resolution in its entirety. Selectman Gaston seconded. All in favor.
7. **Resolution:** Selectman Gaston moved the Certified Resolution RESOLVED: That E. Patricia Llodra, First Selectman is empowered to execute and deliver in the name and on behalf of this municipality a contract with the Connecticut State Library, for a Historic Documents Preservation Grant. Selectman Rodgers seconded. All in favor.
8. **Poet Laeate:** tabled until next meeting.
9. **Appointments/Reappointments:** none. First Selectman announced the vacancy on the Pension Committee, which was advertised on 5/1 and can be filled on 6/15 and the vacancy on Commission on Aging, which was advertised 5/29 and can be filled on 7/6.
10. **Driveway Bond Release/Extension:** Selectman Rodgers moved the six month extension for a driveway bond for Curtis Beck, 12 Queen Street, M26, B10, L40. The new expiration date is 11/30/15. Selectman Gaston seconded. All in favor. It was noticed that the request was for a 90 day extension; the process is to renew for six months.
11. **Tax Refunds:** Selectman Gaston moved the June 2015 Refunds, Refund No. 17, 2014-15 in the amount of \$4,930.21. Selectman Rodgers seconded. All in favor.

**VOTER COMMENTS:** none.

**ANNOUNCEMENTS:** none.

**ADJOURNMENT:** Having no further business the Board of Selectmen adjourned their regular meeting at 9:20p.m.

Respectfully submitted,

  
Susan Marcinek, Clerk

Att: Economic Development update, Blight Cases (June 1, 2015), Permanent Memorial Commission update, Electric Vehicle Charging Station information



# 2015 Newtown Economic Development Update

Presented to the Board of Selectmen,  
Legislative Council, Board of Finance  
June 1, 3, 8, 2015

Presented By:

**Betsy Paynter**

Economic Development Coordinator





# Overview

- Economic Development consists of business retention, expansion and attraction
  - Newtown's 7 business districts
  - Real estate brokers & developers
  - Business Development
  - Networking
  - Community support, walk-ins meetings

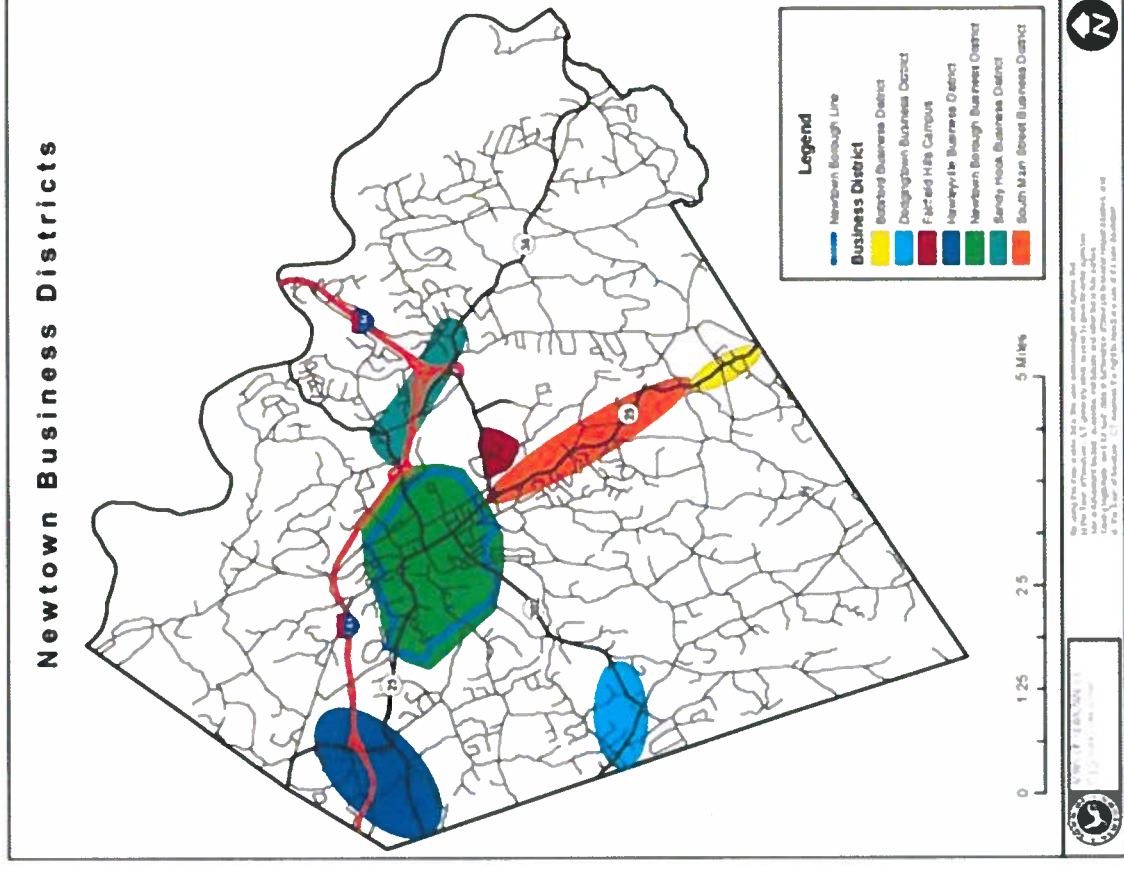




# Newtown Business Districts

## Newtown's 7 Business Districts:

- Hawleyville Business District
- Newtown Borough Business District
- Sandy Hook Village & surrounding businesses, Turnberry Commercial Park
- Fairfield Hills Campus
- South Main Business District
- Botsford Business District
- Dodgingtown Business District





# Hawleyville Business Districts

## Infrastructure:

- Sewer line extension
- Aquarion water
- Fiber optics
- Tracts of under developed/ vacant industrial /commercial land
- Hawleyville streetscape – preparing grant application





# 164 Mt. Pleasant Medical Building



## Newtown's "Medical Mile":

- 26,000 sf medical building construction complete
- Davita Dialysis, leasing underway for remaining

## 168/170 Mt. Pleasant Road:

- 30,000 sf medical building





# 174 Mt Pleasant Rd Hawleyville Professional Office Building



20,000 sf – professional office space approved







# Mt. Pleasant Development

## Planned/Potential Projects:

- 131 Mt. Pleasant Rd - Hilarios Gas Station – expansion development
  - tanks removed October
- 9 & 13 Hawleyville Rd - Grace Christian Fellowship Church - commercial & housing
  - Proposed 175 housing units
  - Proposed 4500 sf – restaurant use
- 10 Hawleyville Rd - Exit 9 – 103 acres site
  - Many conversations, possible commercial building development
- 90 Mt. Pleasant - 33 acres
  - potential 140 housing units
- 183 Mt. Pleasant Road - Brom Enterprises, LLC
  - 17,000 sf medical office building approved (site is cleared)





# Newtown Borough Business District

## Infrastructure:

- Town sewers
- Town water
- Natural gas
- Fiber Optics
- Few tracts of vacant/under developed commercial land





## 12 Queen Street - Medical Office Building



**5,750 sf - orthodontist and professional space**

- Quilt Shop By Lois – opening June 2015
- Physical Therapy – opening summer 2015
- Dr. Beck – 2<sup>nd</sup> floor





# 12 Church Hill Road Newtown Hook & Ladder Firehouse



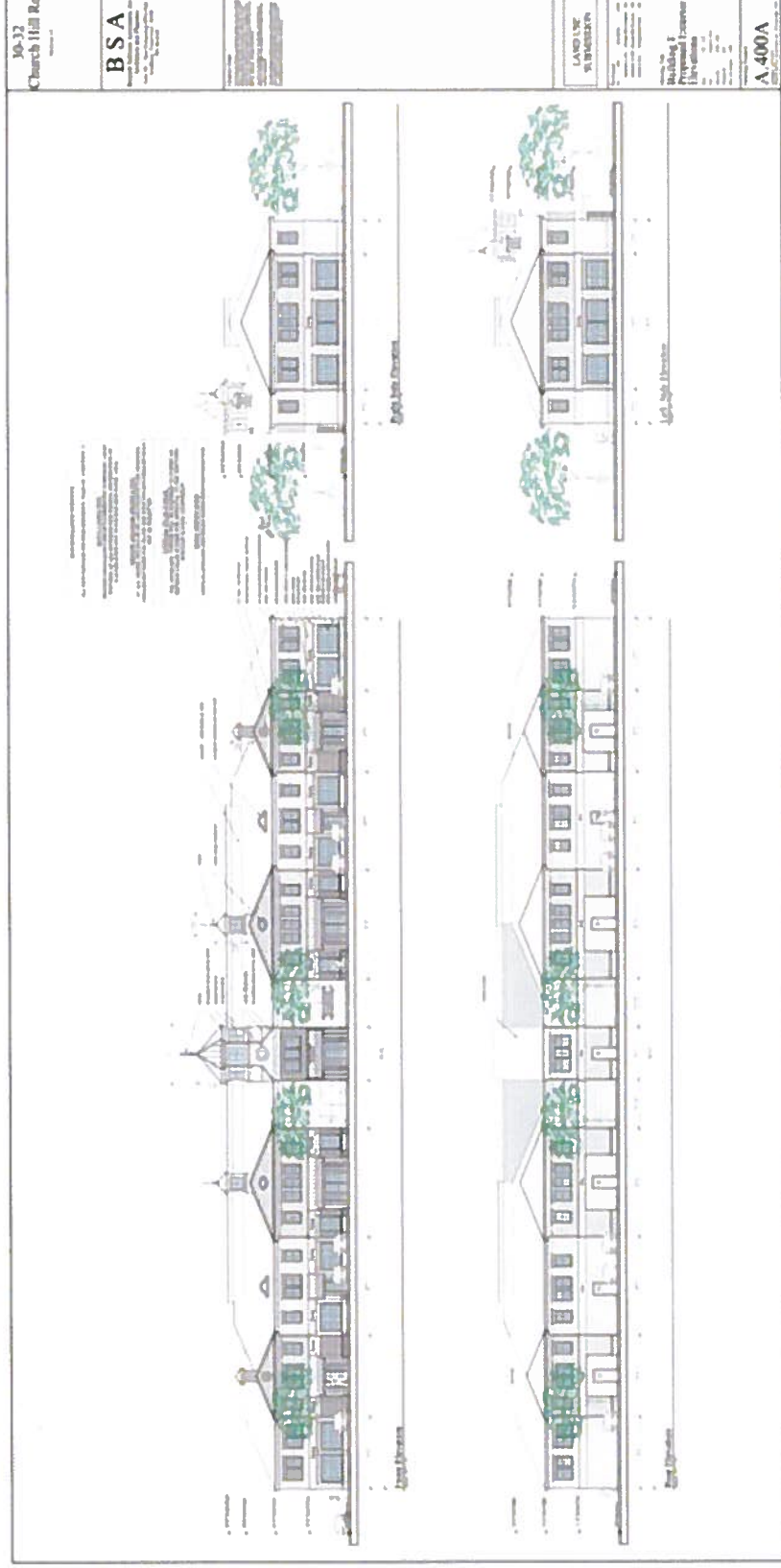
**16,000+ sf Firehouse**

- Great addition to the business landscape along Church Hill Road





# 30-32 Church Hill Rd - Villages at Lexington



## Retail, Professional & Medical buildings

5 buildings - 54,000 sf

NSB building - 5,500 sf

Construction underway, complete by fall 2015/spring 2016





## 67 Church Hill Rd - Consumers Petroleum



**3,440 sf new gas station & convenience store**  
- Construction in process, completion due this summer





## 57 Church Hill Rd – Retail property



**10,000 sf retail space**

- commercial real estate marketing
- build to suit





## Borough Development

- 33 Main Street – café & professional space - Sept
- 64 Church Hill Road – (Mobil) car wash
- 27 Church Hill Rd – potential development
- Commerce Road – New Directory Sign – June
- Edmond Road realignment – 2016
- 75 Church Hill Rd – proposed commercial building
- Sidewalk extension along Church Hill from Flag pole to Newtown Bee
- Sidewalk development to begin from Glover/Rt. 25 around Walgreens to REED Intermediate School
  - \$750,000 DOT grant received





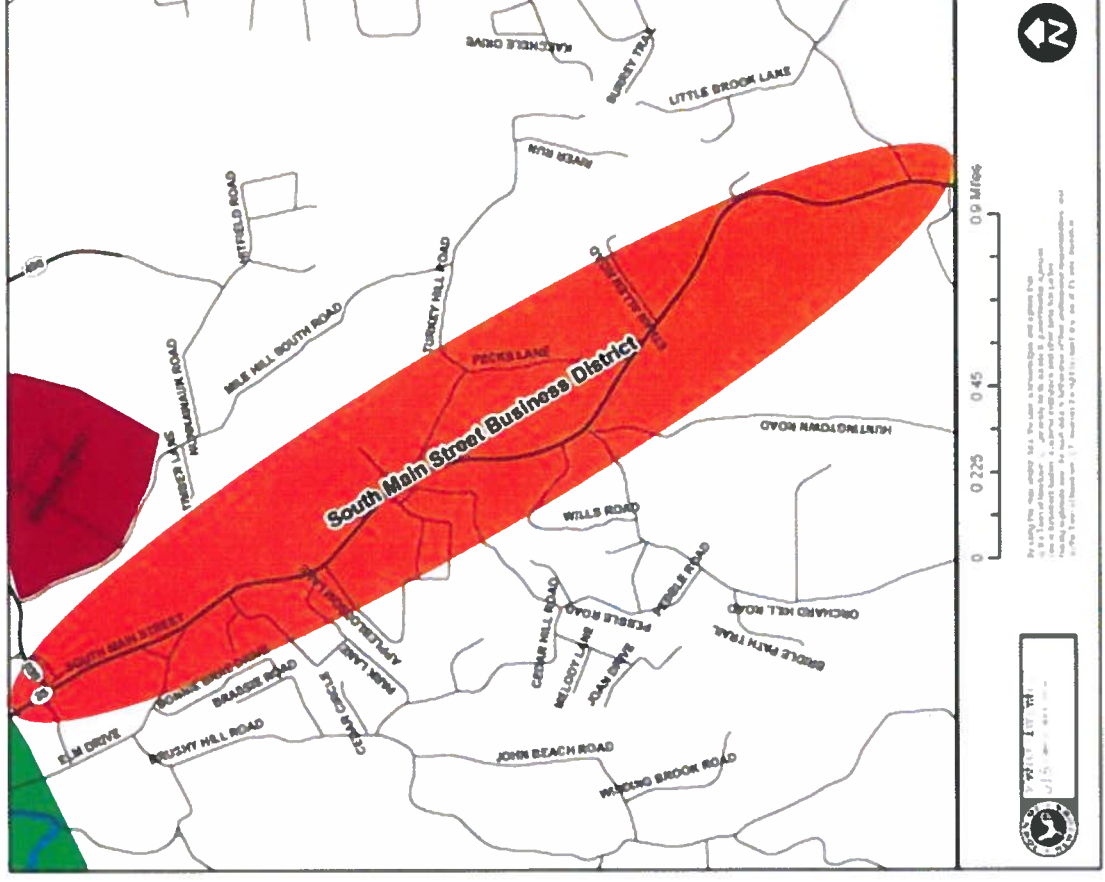


# South Main Street Business District

## Infrastructure:

- minimal town sewers , septic
- Aquarion water
- Natural gas
- Fiber Optics
- Tracts of under developed/ vacant commercial & industrial land

## Newtown Business Districts





# 121-125 S. Main St - Highland Plaza



**58,000 s/f between 3 buildings**

Fusion 25 Restaurant, Highland Self Storage, Nanavaty, Nanavaty & Davenport, CPA,  
Butcher's Best Country Market, Core Fitness, Newtown MediSpa (expansion), SOHO  
Pizza of Newtown

- Light manufacturing zone approval for new business development





# 146 S. Main St - Mixed Use Commercial Building



**20,000 sf building - 10,000 sf residential over 10,000 sf retail**

Clearing ground, ground breaking July 2015  
Planned completion by fall 2015





## South Main Street Development

- 116 S. Main St - Discussions with potential retailer for 4 acre development, P&Z presentation this summer
- 84 S. Main St – proposed building
- 201 S. Main St – Blue Linx property – multiple conversations



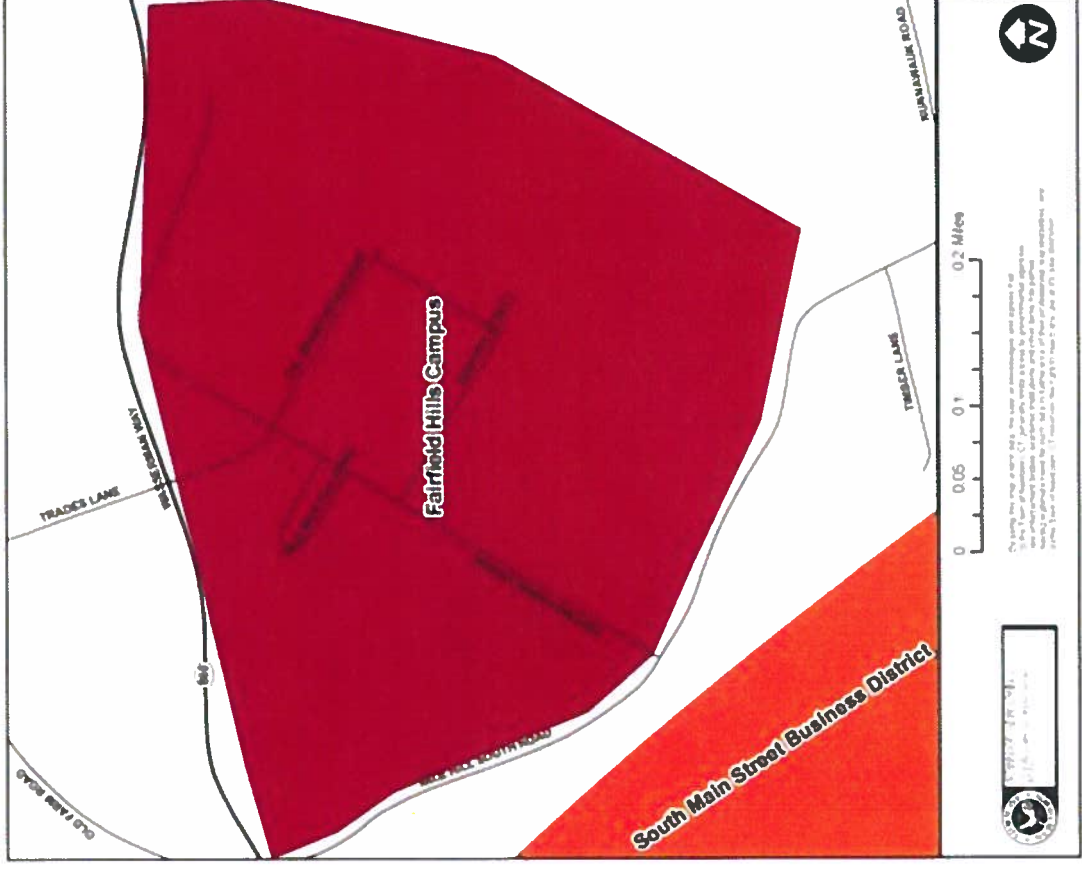


# Fairfield Hills Campus

## Infrastructure:

- Town water
- Town sewers
- Natural gas
- Fiber Optics
- FFH Master Plan

## Newtown Business Districts





# Fairfield Hills Campus



## 2015 Grant applications:

- \$450,000 STEAP for Streetscape
- \$200,000 EPA for Shelton House remediation and clean up
- \$310,000 single family house demo





# Newtown Volunteer Ambulance Corps

14,000 sf garage & headquarters





# Fairfield Hills Campus



## Projects:

- Danbury Hall (21,000 sf) remediated and demolition complete - Fall 2014
- Lease with Newtown Parent Connection approved
  - renovation of duplex to begin in Spring 2015
- Healthvest Discussions – mental health hospital
- Approx. 1 mile walking trail system expansion
  - Complete summer 2015
- Single Family homes planned for removal
- Five duplex buildings + Stratford building ready for renovation & commercial reuse
- Tuesday afternoon Farmer's Market
  - Begins Tuesday, June 23<sup>rd</sup> 2pm – 6pm until October
- Victory Garden
- Newtown Arts Festival & other events







# Sandy Hook Business District

## Infrastructure:

- Partial sewers, septic
- Aquarion water
- Natural gas
- Fiber Optics
- Tracts of under developed/  
vacant industrial land  
available

## Newtown Business Districts





# Sandy Hook Village Revitalization



Streetscape completed in 2014

- Sidewalks & lighting

Sandy Hook Village Branding 2013

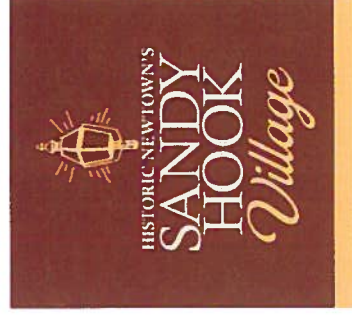
Signage & Wayfinding consultant - 2015

- Exit 10 & 11, parking, amenities, Sandy Hook Village branding

SHOP – Sandy Hook Organization for Prosperity

- Master Planning Committee

Restaurant cluster forming





## 6 Washington Street



5,600 sf – light dining space near completion

Tenant fit out for September (Wine Bar)





# 107 Church Hill Road



Phase 1 completed - 15,000 sf office and professional building

Spring 2015 - Phase 2 includes rental housing over commercial





# Riverwalk at Sandy Hook Village 10-16 Washington Avenue



Proposed housing community of 74 townhouses





## The Paddock at Newtown 79 Church Hill Rd



- Proposed apartment complex to include pool, club house and 300 +/- housing units





## SHV Development Opportunity

### Brownfield Clean up:

- 7 Glen Road - Sandy Hook Auto & Marine
- 28 Glen Road – Watkins property
  - Environmental assessment reports due in June
  - RPF for development





# Botsford Business District

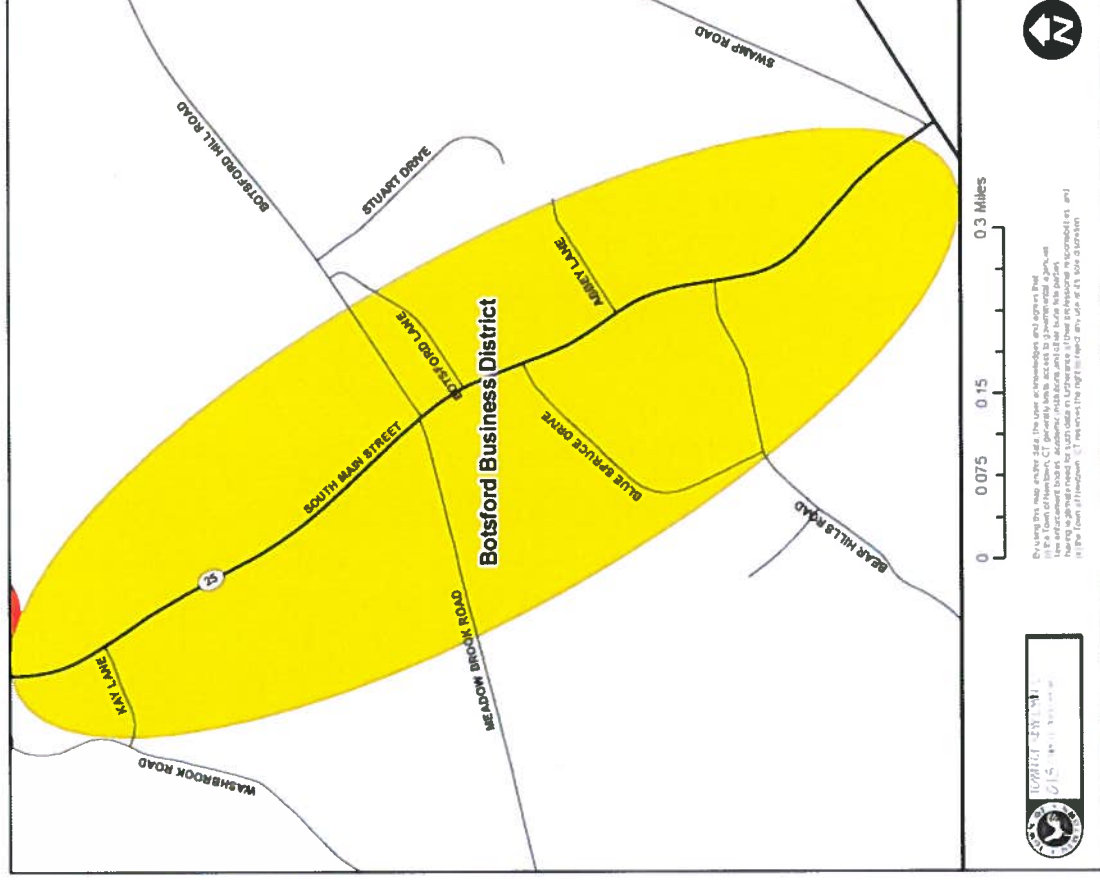
## Newtown Business Districts

### Infrastructure:

- Aquarian water
- Natural gas
- Fiber Optics

### Development:

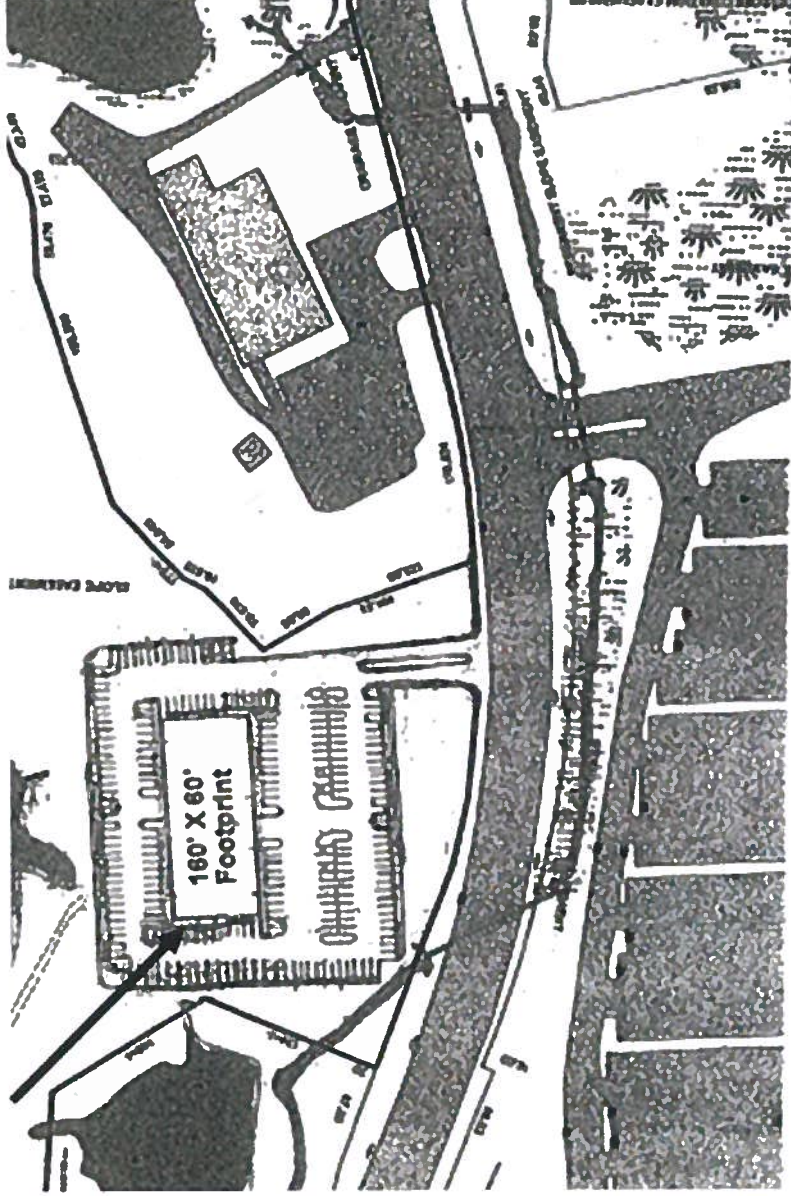
- 2 Buttonshop Rd (100+/- acres)
- Discussions re: potential mixed used development – undergoing environmental assessment
- Batchelder – Tighe & Bond – grant for solar park development







# 245 S. Main St – Retail Development



**10 acre lot, proposed 19,000 sf building**

Marketing for tenant anchor

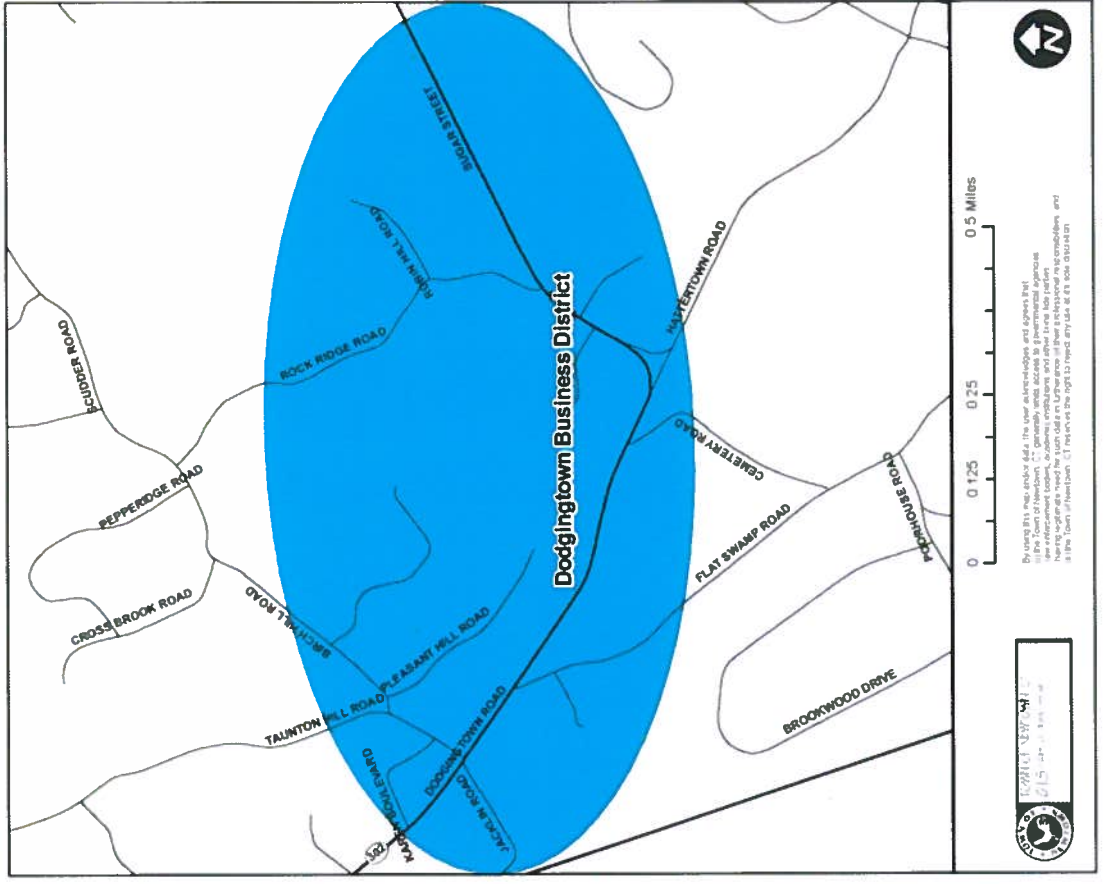
Across the street from Sand Hill Plaza, next to Waterfall Plaza





# Dodgingtown Business District

## Newtown Business Districts



### Infrastructure:

- Wells & septic
- Fiber optics

### Development:

- No available land for commercial development





# Business Development

## Small Business Development Seminars:

- February/March 2015 – 4 seminars held at CH Booth Library
  - Newtown Savings Bank sponsorship
  - SBA seminars/speakers:
    - How to write a business plan, Small business financing, Marketing 101, How to win government bids
  - Library & WBDC relationship – fall seminars



## Newtown's Annual Manufacture Breakfast

- Rock Ridge Country Club
- Newtown Savings Bank sponsorship
- Manufacture speakers:
  - DECD, CCAT, CONNSTEP, DOL, NVCC Advanced manufacturing school





# Business Development

## Fundamentals of Economic Development for Municipalities

- January 2015
- CERC & CEDAS presentation
- Opportunity to get most boards together & discuss the focus of Economic Development in Newtown





# Business Development

## Ribbon Cuttings:

- Divine Dogs
- Filet Restaurant
- The Burrito Shack
- BU Juice Bar
- Café Xpresso
- Fine Floors By Mathisons
- SOHO Pizza of Newtown
- Your Healthy Pet
- The Quilt Shop By Lois



## Ground Breakings:



- Consumer Petroleum
- 164 Mt. Pleasant Rd
- 168/170 Mt. Pleasant Rd
- The Summit – 149 S. Main St





# Marketing Efforts

- The Newtown Way: Buy Local First campaign
- New England Real Estate Journal articles
- Constant Contact newsletter
- Social Media – Facebook & Twitter
- Nurture economic gardening with existing business
- Promote efficient land use and zone regulation
- Leverage Hawleyville Sewer Extension installation
- Leverage Business Incentive Program



**LIVE • WORK • GROW • WITH US**

Welcome to Newtown  
Learn how we can help your business grow  
Give us a call today!

Betsy Paynter  
Newtown Economic Development  
**203-270-4281**  
[www.newtown.org](http://www.newtown.org)



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*Steve Maguire*  
*Land Use Enforcement Officer*

**TOWN OF NEWTOWN**  
**LAND USE AGENCY**

June 1, 2015

**Active Blight Cases**

- No known owner of parcel. Working with tax department to foreclose on property.
- Citations accruing \$24,900 as of June 1, 2015. Statement of fines due sent. Recording lien on property within month followed by foreclosure proceedings.
- Injunction being requested with Danbury Superior Court to achieve compliance. First court date June 1, 2015. Owner has not responded.
- Barn is slowly being taken down and windows and doors on house are secured.
- Owner has submitted letter stating intent to repair barn but does not currently have the funds.

**Closed Blight Cases**

- Building demolished. Lien filed on land records
- Building demolished
- Building demolished
- Building demolished
- Barn demolished house next door will be coming down this month along with remaining barn debris



## Commission Snapshot June 1<sup>st</sup>, 2015

### Overview of Charge Assigned By the Board of Selectmen

The Board of Selectmen shall appoint a commission of twelve (12) residents to lead the community through the process of determining the nature, location, and funding of a permanent memorial(s) to honor the memory of those lost in the Sandy Hook School shooting on December 14, 2012 in order to make a recommendation to the Board of Selectmen and provide interim requests for information as required.

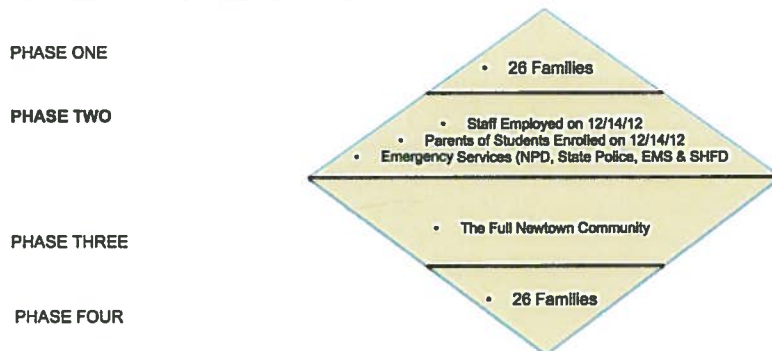
### Mission Statement created by our Commission:

The mission of the Permanent Memorial Commission is to make a recommendation to the Board of Selectman for a Permanent Memorial that remembers, honors and celebrates those 26 who died as a result of the Sandy Hook Elementary School shooting and serves to provide comfort to those who loved and were touched by them.

### Initial Benchmarking:

- **9/11** Memorial Commission President Joe Daniels came to speak with our commission regarding key learnings and insights
- Direct contact with **Columbine** Memorial Commission surrounding process and key learnings
  - A thesis was written specific to the Memorial Commission and key learnings associated with their group
- Communicated with **Virginia Tech** Commission Members who have provided us insight on the memorial their school had built
- We continue to research different groups based on different meeting topics we have (Oklahoma City, Dunblane, etc.)

### Information Gathering Pyramid



### Communication

- Monthly emails have been sent to family members on updates specific to progress
  - Recently held a Special Meeting with the families to update them on progress and gain insights as part of Phase IV. This will be ongoing.
- Consistent communication on social channels – Facebook, Twitter & website
- Local newspapers assistance in getting word out regarding outreach
- Two Q&A's have been published thus far



### **Location**

- A sub committee has been created to run through an inventory of different land options to be discussed – and are rating those land options based on a criteria we have identified (i.e. is it secluded enough, does it have
- Outreach has begun with the Town of Newtown (Rob Sibley), Fairfield Hills Authority (Terry Sagedy) and Newtown Forest Association (Bob Eckenrode)
- Expect to have a list of 3-5 locations by end of summer to allow the Commission to talk through and vote on – the families will also be part of this process

### **Design Moving Forward**

- We have set up a sub committee to sort through the appropriate way to make this a reality – in a fair way, yet a way that makes sense. There are many ways this can come to fruition, but want to make sure the Commission and the families are comfortable with how we select a design. For example, how much is the Commission involved in the design? Do we go through an RFP Process?
- We have halted design presentations at this time until we fully understand how we want to proceed
- Columbine : Open Public Committee / Families Participation in design (3 rounds)
- 9/11: Competition held by Commission (Jury)
- Virginia Tech: School handled with minimal impact from families
- Aurora: Design Committee including family members

### **Fundraising**

- There is \$130,000 in an account currently for a memorial in the community – none of which has been fundraised by our Commission directly. These are dollars that were earmarked to the Commission after 12/14
- We have been approached by different groups in the Community who have stated that they would be able to assist financially when the time is right
- We have not begun soliciting money for this project at this time - as we do not know the scope of the work at this time.
- We do have one Commission member looking up potential grants to apply for at this time



Sandy Hook Permanent Memorial Commission  
Phase II & III Results / Trends

Phase I & IV results are not shown at this time as the importance of communicating with the 26 families is ongoing at this time.

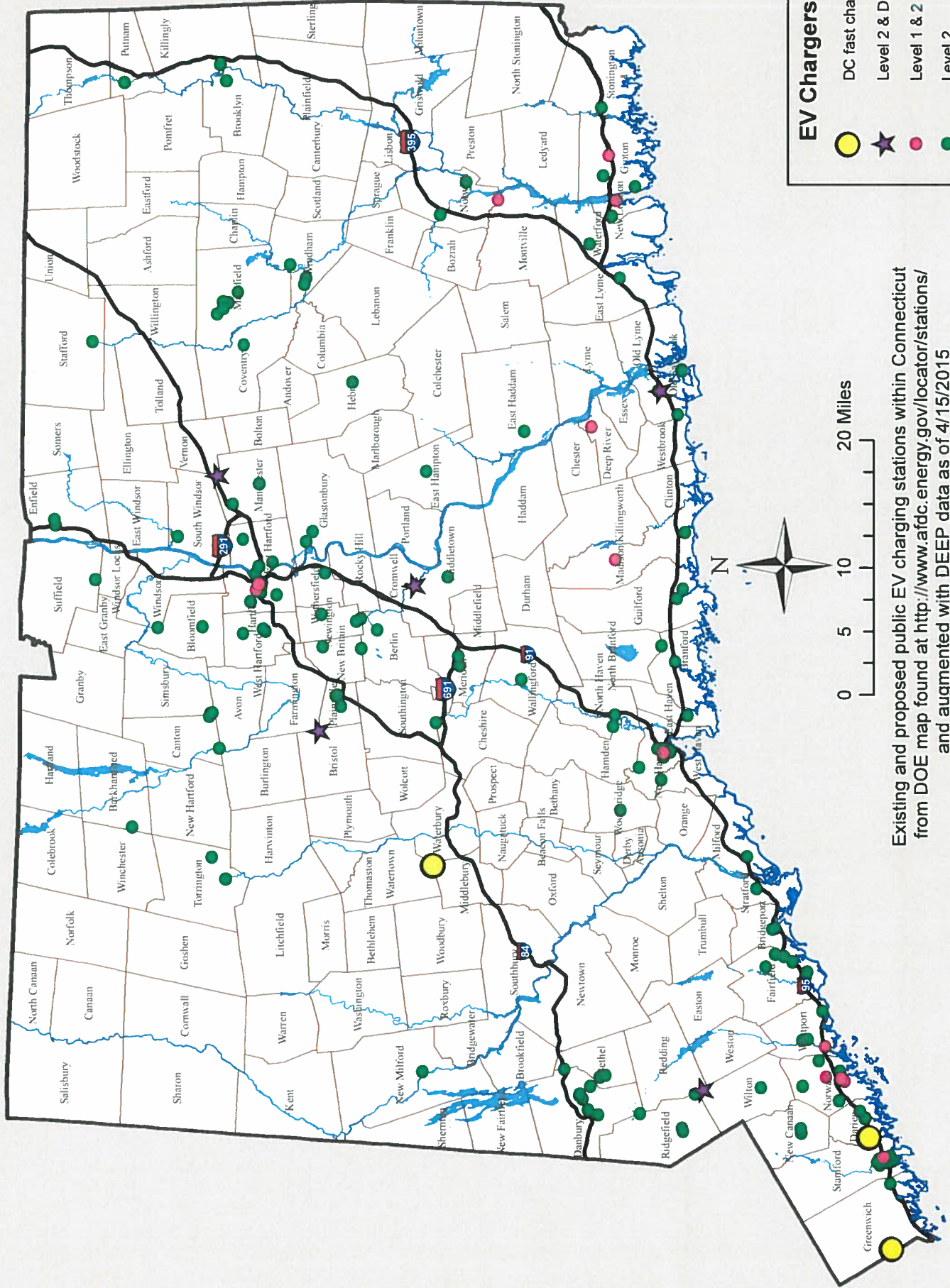


DIGITAL SURVEYS

Phase I / Phase II Groups	Should there be a memorial?	Physical or Abstract?	Outdoor / Indoor or Both	Different Themes to Honor Victims?	Overall Feeling of a Memorial	What type of memorial would you NOT like to see	Certain Elements to be Included	Certain Elements Not to be Included	Trends
Sandy Hook Staff 41 Responses Digital Survey	90% Yes 10% No	95% Physical 5% Abstract	74% Outdoor 0% Indoor 26% Both	59% Yes 41% No	Reflective Linked to Nature Inspirational Peaceful	Dramatic Sad Heavy	Gardens Running Water Trees Stone	Metal	
Sandy Hook Parents 243 Total Responses Digital Survey	95% Yes 5% No	88% Physical 12% Abstract	71% Outdoor 2% Indoor 27% Both	54% Yes 46% No	Hopeful Reflective Solemn Inspirational Peaceful Serene	Dramatic Sad Heavy	Gardens Running Water Trees Stone	Wood Metal Sculpture	
Sandy Hook Staff 41 Total Responses Digital Survey	81% Secluded 19% High Traffic	Free From Outside Noise 64% Yes 36% No	Expansive Views or Inwardly Focused 71% Expansive 29% Inwardly	Separate Destination or Included into town setting 55% Seperate 45% Included	Easily Seen if not intended to go? 42% Yes 58% No	Most appropriate location 71% Sandy Hook 9% Newtown 20% Gave a specific location			1. Should embrace those lost and honor survivors. 2. A sense of community should be felt 3. Rock of angels was discussed 4. Concerned about security and maintenance 5. Fairfield Hills was a common location 6. Scholarships should be considered
Sandy Hook Parents 243 Total Responses Digital Survey	88% Secluded 12% High Traffic	62% Yes 38% No	65% Expansive 35% Inwardly	69% Seperate 31% Included	33% Yes 67% No	80% Sandy Hook 8% Newtown 12% Gave a specific location			1. Assure 26 families are involved in decision making 2. Celebrate community in this memorial 3. Should have a single theme 4. Memorial should be tied to nature 6. Fairfield Hills was a common location 7. Consider the winter months when discussing the memorial

HIGHLIGHTS		TRENDS (In order of importance)
<p>Emergency Services SHFD, NPD, EMS, State Police, Dispatachers Written Surveys</p>	<p>1. Priority should be 26 families in this process. 2. No political accents that represent mental health or gun control 3. No souvenirs or anything to purchase 4. Memorial should be respectful. 5. Safety needs to be considered for this. 6. One thematic that should be considered is "Hopes &amp; Dreams"</p>	<p>1. Priority should be 26 families in this process.</p>
<p><b>HIGHLIGHTS</b></p>		
<p>Open Forums / Public</p>	<p>1. Families should be considered when discussing the design 2. Location needs to come first in this discussion 3. There are groups in the community willing to assist us with funds when it comes down to the fundraising component 4. Security / Night time / Winter time need to be considered when discussing the memorial 5. More input will be given from the community once we get into the design and location stage 6. Discuss Fairfield Hills as an option, but do your diligence and look into Sandy Hook/private locations 7. Communicate "love" in the memorial, as that is what has helped define Newtown</p>	

# Connecticut's Existing EV Charging Equipment April 2015



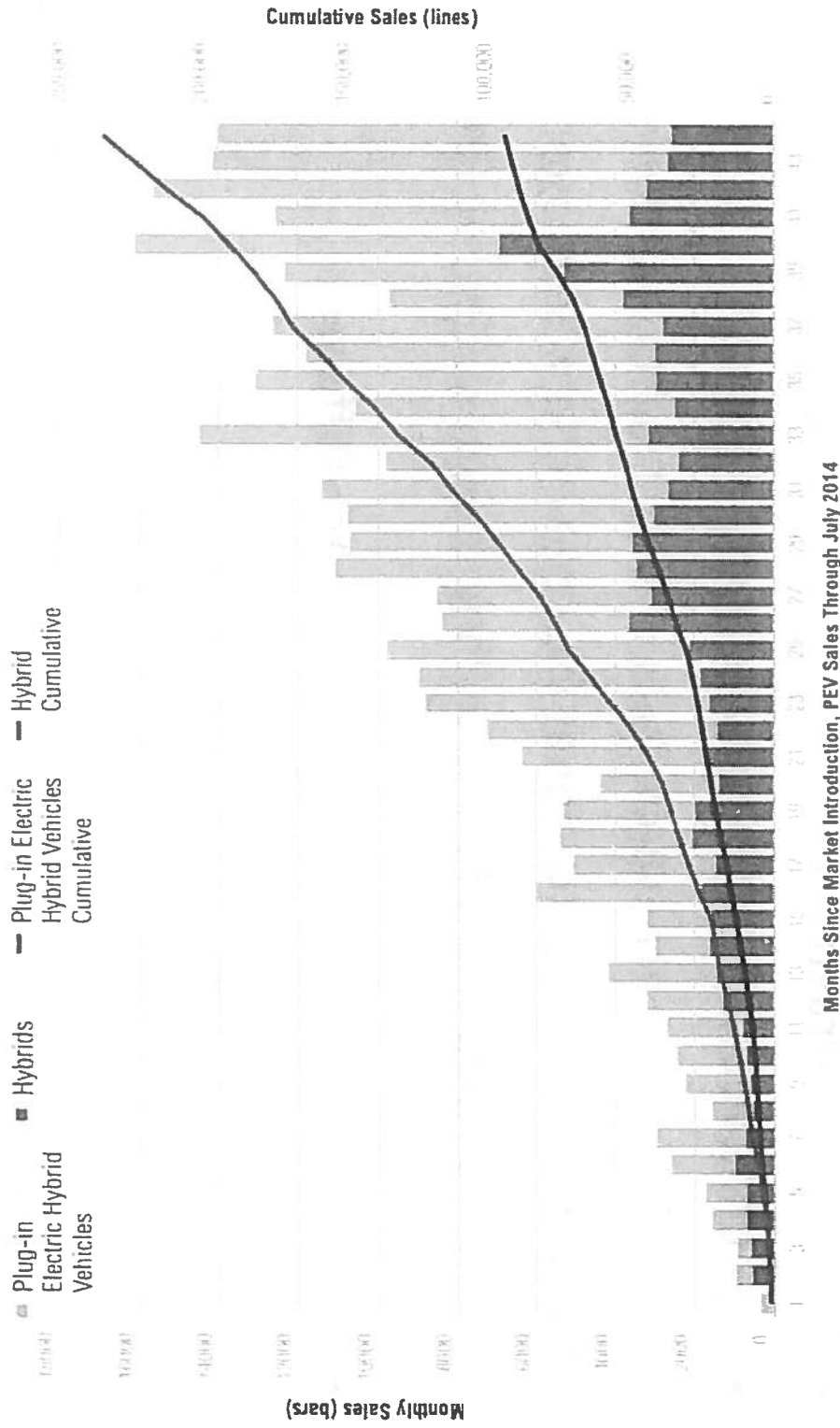
Existing and proposed public EV charging stations within Connecticut from DOE map found at <http://www.afdc.energy.gov/locator/stations/> and augmented with DEEP data as of 4/15/2015

- Electric Vehicle Industry is Growing and Here to Stay
- Demand & Infrastructure Relationship is Complex
- Expected 400% Growth Nationally by 2023<sup>1</sup>
- Adoption Rates are Much Faster Than Traditional Hybrids
- CT Growth Close to National Average of 54% Year over Year <sup>2</sup>
- Many Pure Electric (PEV) and Plug in Hybrid Electric (PHEV) Choices Available
- EV Driver Behavior & Expectations Are Different

<sup>1</sup> Navigant Research, "Electric vehicle geographic forecasts," <http://www.navigantresearch.com/research/electricvehicle-geographic-forecasts>.

<sup>2</sup> Polk Research Data

Figure 3.4 | The Uptake of Electric Vehicles Has Been Faster than the Uptake of Hybrid Vehicles



Notes: Insight was first released in the U.S. market in December 1999. Prius HEV was first released in the U.S. market in January 2000. Volt and Leaf were first released in the U.S. market in December 2010.

Source: Argonne National Laboratory Transportation Technology R&D Center, 2014, "Light Duty Electric Drive Vehicles Monthly Sales Update," Technology Analysis, U.S. Department of Energy (DOE), accessible at [http://www.transportation.anl.gov/technology\\_analysis/edrive\\_vehicle\\_monthly\\_sales.html](http://www.transportation.anl.gov/technology_analysis/edrive_vehicle_monthly_sales.html).

EV Drivers By State By Quarter

State	Q1'13	Q2'13	Q3'13	Q4'13	Q1'14	Q2'14	Q3'14	Q4'14	Q4'14/Q4'13 Growth
Alabama	388	450	492	531	567	619	705	774	46%
Alaska	55	63	76	101	110	121	139	156	54%
Arizona	1,583	1,856	2,208	2,573	2,904	3,270	3,826	4,375	70%
Arkansas	146	167	195	224	262	310	340	376	68%
California	37,388	46,074	55,885	69,617	81,591	97,726	112,617	126,343	81%
Colorado	1,179	1,493	1,894	2,371	2,723	3,095	3,551	4,004	69%
Connecticut	823	1,086	1,400	1,638	1,789	2,032	2,237	2,476	51%
Delaware	120	148	174	218	241	281	333	384	76%
District of Columbia	189	252	287	318	369	400	450	493	55%
Florida	3,520	4,328	5,252	6,235	7,097	8,071	9,144	10,388	67%
Georgia	1,652	2,474	4,047	5,515	7,271	9,591	12,528	15,563	182%
Hawaii	1,071	1,323	1,686	1,950	2,176	2,402	2,742	3,051	56%
Idaho	131	156	202	225	247	295	333	410	82%
Illinois	2,273	2,949	3,778	4,481	4,964	5,532	6,140	6,696	49%
Indiana	531	635	778	933	1,018	1,254	1,478	1,702	82%
Iowa	437	491	612	700	755	841	927	928	33%
Kansas	257	292	367	453	521	615	689	750	66%
Kentucky	252	299	353	432	483	559	637	703	63%
Louisiana	240	301	340	375	411	445	495	527	41%
Maine	288	330	406	479	527	567	645	696	45%
Maryland	2,335	2,772	3,330	3,710	3,981	4,304	4,772	5,029	36%
Massachusetts	1,750	2,097	2,680	3,116	3,346	3,736	4,207	4,613	48%
Michigan	3,809	4,601	5,473	6,296	6,704	7,631	8,542	8,853	41%
Minnesota	2,324	2,561	2,639	2,512	2,424	2,494	2,711	2,776	11%
Mississippi	98	113	116	143	167	169	190	201	41%
Missouri	661	888	1,082	1,236	1,337	1,521	1,688	1,861	51%
Montana	368	427	460	471	478	454	412	363	-23%
Nebraska	240	296	338	390	432	472	537	579	48%
Nevada	444	581	712	818	900	1,006	1,211	1,512	85%
New Hampshire	324	385	457	533	585	636	711	761	43%
New Jersey	1,960	2,464	3,295	4,103	4,426	5,008	5,563	6,021	47%
New Mexico	242	291	345	382	426	484	572	637	67%
New York	3,887	4,827	5,980	7,324	7,763	9,275	10,453	11,356	55%
North Carolina	1,407	1,726	2,045	2,349	2,655	2,870	3,098	3,385	44%
North Dakota	53	56	60	64	68	76	87	91	42%
Ohio	1,448	1,697	2,018	2,396	2,581	2,979	3,459	3,815	59%
Oklahoma	421	480	519	561	629	676	750	808	44%
Oregon	1,811	2,274	2,854	3,564	3,969	4,355	5,019	5,683	59%
Pennsylvania	1,631	1,984	2,393	2,945	3,224	3,674	4,139	4,541	54%
Rhode Island	140	172	217	256	279	333	367	417	63%
South Carolina	397	479	566	653	728	822	962	1,058	62%
South Dakota	66	76	62	112	122	136	146	160	43%
Tennessee	1,542	1,779	2,124	2,302	2,339	2,386	2,621	2,735	19%
Texas	3,147	3,972	4,722	5,722	6,529	7,368	8,644	9,928	74%
Utah	402	542	684	864	898	1,125	1,344	1,566	81%
Vermont	207	259	398	570	615	687	771	840	47%
Virginia	1,306	1,612	1,852	2,285	2,543	2,830	3,268	3,628	59%
Washington	3,825	5,170	6,498	7,632	8,577	9,685	10,939	12,297	61%
West Virginia	152	181	195	224	236	235	252	271	21%
Wisconsin	1,028	1,219	1,532	1,728	1,860	2,105	2,303	2,430	41%
Wyoming	30	37	43	50	55	61	65	73	46%
<b>Total</b>	<b>89,978</b>	<b>111,185</b>	<b>136,121</b>	<b>164,680</b>	<b>186,902</b>	<b>217,619</b>	<b>249,759</b>	<b>279,083</b>	<b>69%</b>

# Many models available



Tesla Model S



Toyota Prius Plug-In



Chevy Spark EV



BMW i3



Cadillac ELR



Chevy Volt



Ford Fusion Energi



Honda Fit EV



BMW i8



Smart ED



Nissan LEAF



Ford C-MAX Energi



Honda Accord Plug-In



Mercedes B-Class ED



VW E-Golf



Fiat 500e



Ford Focus Electric



Toyota RAV4 EV



Porsche Panamera S E-Hybrid



Kia Soul EV



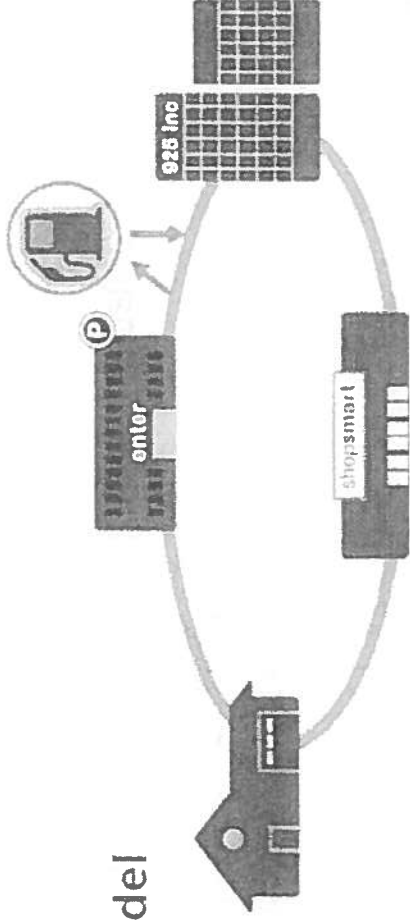
## EV Driver Facts



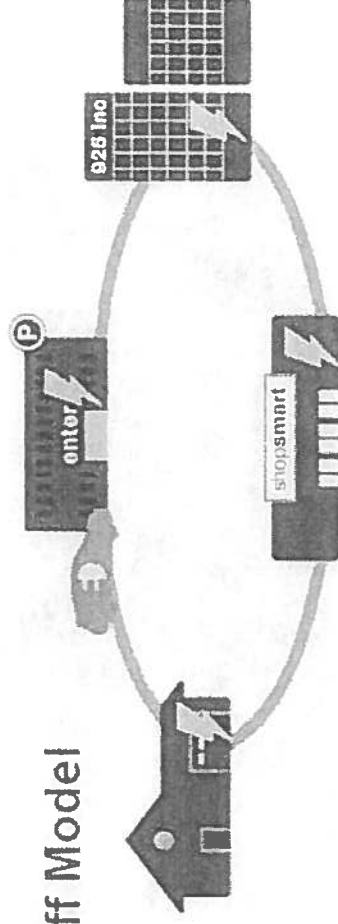
- + Average EV drivers' daily round-trip commute is less than 40 miles
- + EV drivers have a strong desire to charge outside their home – workplace, retail, parking lots, etc.
- + This behavior is driving significant demand for charging infrastructure.

# Fueling Model for EVs


Gas: Depot Model



Electric: Top-off Model



# Charging Station Types

			
			
<b>Voltage:</b>	110 VAC	240 VAC	400 VDC
<b>Current Range:</b>	12-16 A	6-80 A (Typical 30 A)	70-125 A
<b>Charging Time:</b>	12-18 Hours	3-4 Hours	20-30 Minutes
<b>Waiting Time:</b>	30 seconds	30 seconds	20-30 Minutes
<b>Connector</b>			
<b>Driver Behavior:</b>	Rarely Used	Park and Charge	Emergencies, Long Distance

EV Driver behavior pattern indicates that workplace and public charging will mostly use Level 2 chargers.