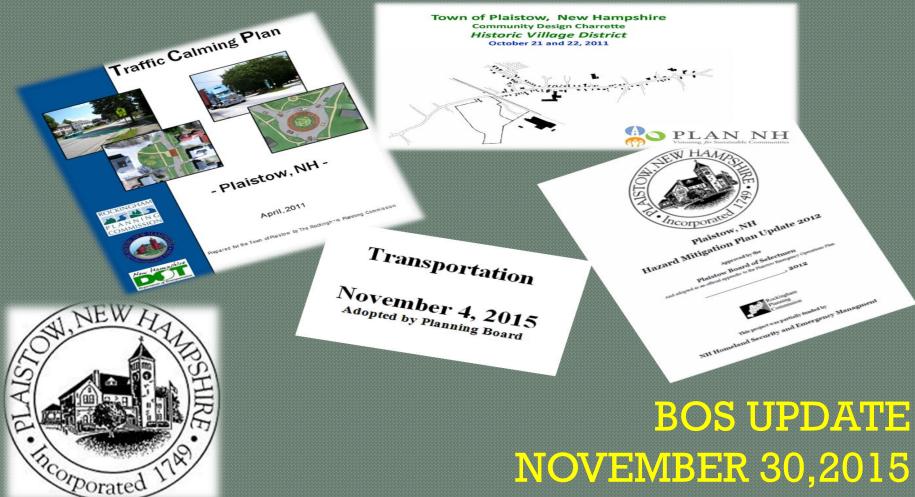
PLAISTOW TRANSPORTATION CHAPTER OF THE MASTER PLAN 2015



Overview of the Transportation Chapter of Plaistow's Master Plan

- In response to decades of citizen input and concerns, the Town of Plaistow's local officials have sought to implement innovative and responsive planning to address:
 Public Safety
 - Pedestrian Safety
 - Improved Street Scapes
 - Intersection Improvements
 - Congestion Mitigation

Sense of Community

Quality of Life

This presentation will summarize and provide recommendations to help address these needs.



Master Plan Goal Transportation



Introduction - The purpose is to identify transportation issues of concern to Plaistow officials and residents and to recommend proposed actions.



TRANSPORTATION GOALS:

Provide and maintain a transportation system that allows for the efficient movement of people and goods and provides adequate access to places of employment, residential areas, commercial and shopping areas, and recreational opportunities.



MASTER PLAN OBJECTIVES TRANSPORTATION

Objective 1: Maximize More than just Maintenance pedestrians through rec enhancement to the transportation system. Objective 2: Improve provide efficient traff Move cars to Rt. 125 - off Main St while maintaining a safe environment for pedestrians. Objective 3: Provide oppor Pedestrian Infrastructure automotive transportation available to the residents of Plaistow. Objective 4: Ensure that transportation improvement projects are consiste Context Sensitive Enhancements protection of natural, cumurar and majoric resources, and minimize the impact on residential neighborhoods.

MASTER PLAN OBJECTIVES TRANSPORTATION

Objective 5: Participate in the corresponding that adds needs and use all opportunities for funding. Objective 6: Expand opportu Regional Transportation Planning by identifying and improving staewarks in need of immediate repair and adding additional sidewalks where appropriate. Objective 7: Establish a system of la Safe Routes to School trails/paths for the enjoyment of Plaistow Citizens that is coordinated with state and regional trail systems Objective 8: Continue the Recognizes the Role the CIP plays enhancement projects through the local capital improvement planning process. Objective 9: Encourage pub Cooneration for the Public Good financing of additions and improvements to the transportation

system.



Transportation Chapter Key Issues and Challenges

- Traffic on NH Route 125 has evolved over last 25 years (25 K trips per day)
- Increased future stress on the transportation network -Plaistow needs to be prepared to meet this challenge.
- Improvements to the road network can be made by updating the physical infrastructure or by updating various policies and regulations.
- Currently, residents rely on expensive and congested car travel or inconvenient transit services to major employment centers.

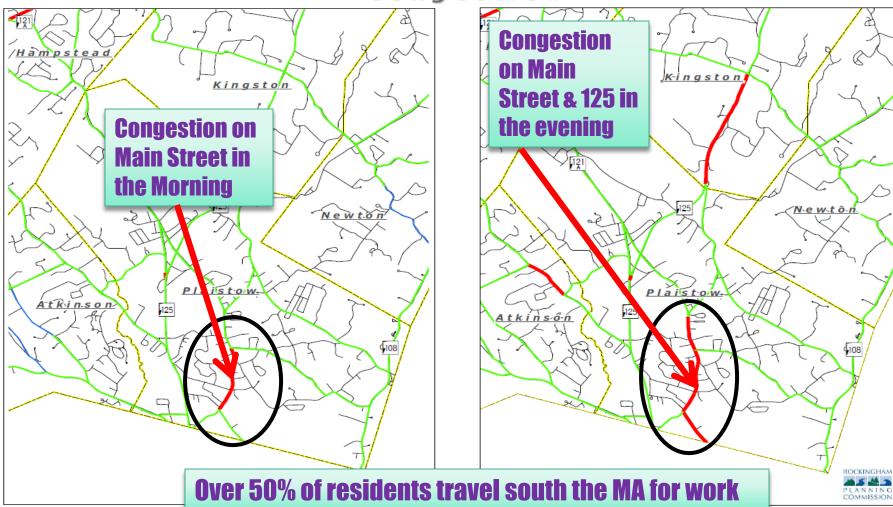
2010 Congestion

2010 Base Year

AM Peak Hour

Congestion

PM Peak Hour



Uncongested Moderate

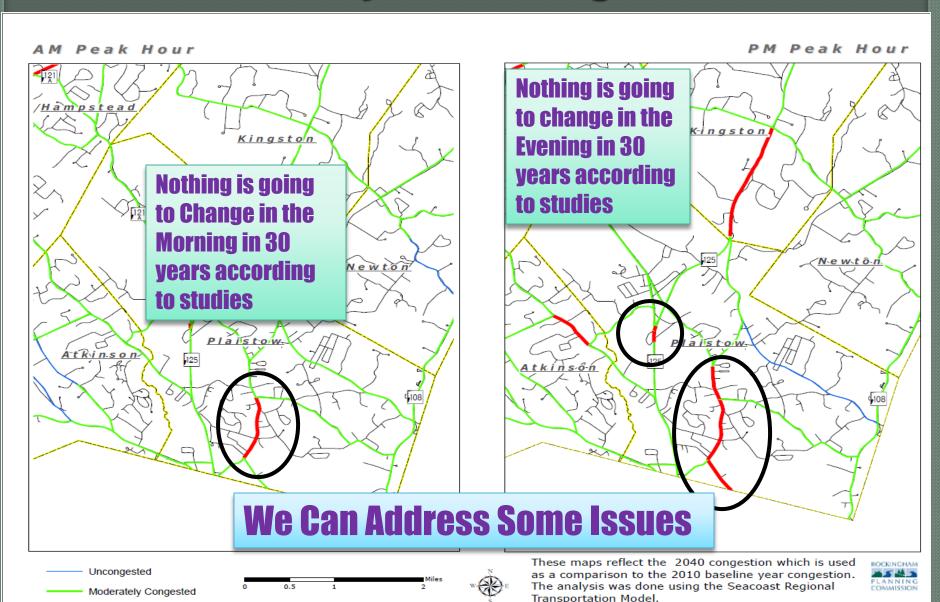
Congested



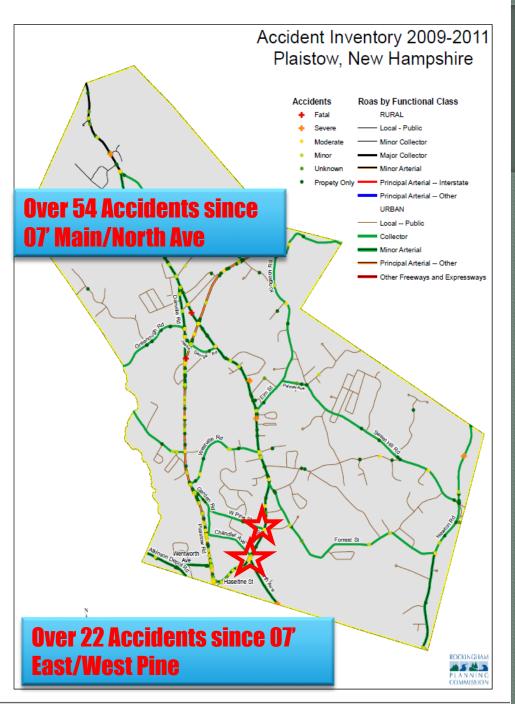


These maps reflect the baseline 2010 congestion which is used as a comparison to the 2040 future year congestion. The analysis was done using the Seacoast Regional Transportation Model.

2040 Projected Congestion



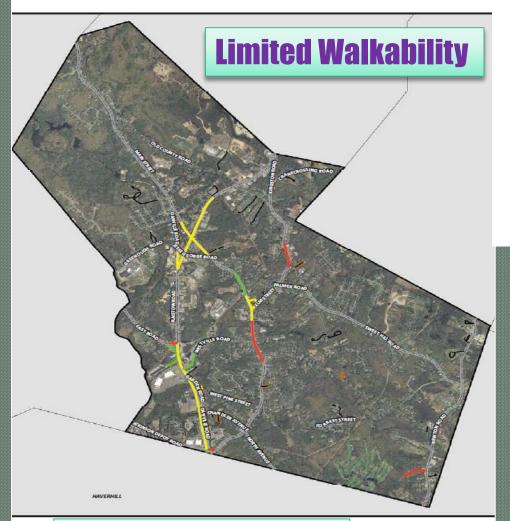
Congested



2007-2014

Location	07'	08'	09'	10'	11'	12'	13'	14'	Total
Location		00	09	10		12	13	14	10tai
DANVILLE RD & GREENOUGH RD	6	3	4	6	4	3	2	2	30
DANVILLE RD	20	8	19	18	10	11	16	21	123
GREENOUGH RD	8	6	11	4	12	8	9	8	66
JESSE GEORGE RD & PLAISTOW RD	0	3	2	3	4	0	1	0	13
NORTH AVE	2	4	0	0	1	2	2	1	12
WENTWORTH AVE	0	2	1	0	2	3	3	3	14
WESTVILLE RD	9	13	11	6	14	12	7	14	86
NEWTON RD & SWEET HILL RD	0	3	1	3	5	4	2	3	21
ATKINSON DEPOT RD & WENTWORTH AVE	2	1	1	1	0	3	1	1	10
PLAISTOW RD & CHANDLER AVE	3	0	2	1	1	1	0	3	11
PLAISTOW RD & DANVILLE RD	5	1	4	1	3	2	6	5	27
PLAISTOW RD & EAST RD	5	2	3	5	3	6	3	2	29
PLAISTOW RD & HASELTINE ST	1	6	6	4	7	6	15	5	50
PLAISTOW RD & JESSE GEORGE RD	2	4	1	7	1	0	1	0	16
PLAISTOW RD & JOANNE DR	1	3	2	2	4	0	1	0	13
PLAISTOW RD & MAIN ST	5	7	7	11	10	5	6	4	55
PLAISTOW RD & MARKET BASKET PLAZA	16	12	23	25	22	25	13	24	160
PLAISTOW RD & OLD COUNTY RD	7	2	2	1	5	1	3	2	23
PLAISTOW RD & WALMART PLAZA	23	26	24	22	21	27	32	45	220
PLAISTOW RD & WALTON RD	3	0	0	0	0	3	0	0	6
PLAISTOW RD & WENTWORTH AVE	4	4	2	4	6	6	5	4	35
PLAISTOW RD & WESTVILLE RD	5	6	5	3	6	7	3	4	39
MAIN ST & CHANDLER AVE	1	1	3	1	7	6	3	0	22
MAIN ST & DANVILLE RD	3	2	4	2	1	3	0	3	18
MAIN ST & DEER HOLLOW RD	1	2	2	3	1	1	1	1	12
MAIN ST & ELM ST	4	0	3	1	1	1	2	0	12
MAIN ST & HASELTINE ST	2	1	2	3	0	2	1	2	13
MAIN ST &	9	8	9	4	7	6	5	6	54
NORTH AVE									- J 4
MAIN ST & OLD COUNTY RD	1	1	3	3	3	2	3	6	22
MAIN ST & POLLARD RD	1	2	3	2	1	2	0	1	12
MAIN ST & WALTON RD	1	2	3	2	1	2	0	1	12
MAIN ST & WEST	6	2	2	2	1	3	2	4	22
PINE ST	0	- 2			1	3	L		
MAIN ST & WESTVILLE RD	2	5	1	8	4	6	4	3	33

Pedestrian Safety



So What can We Do?

Sidewalk Inventory

Sidewalk Location

Even Side

// Odd Side

Both Sides

Roadway Owner

√ Town

∕∕√ State

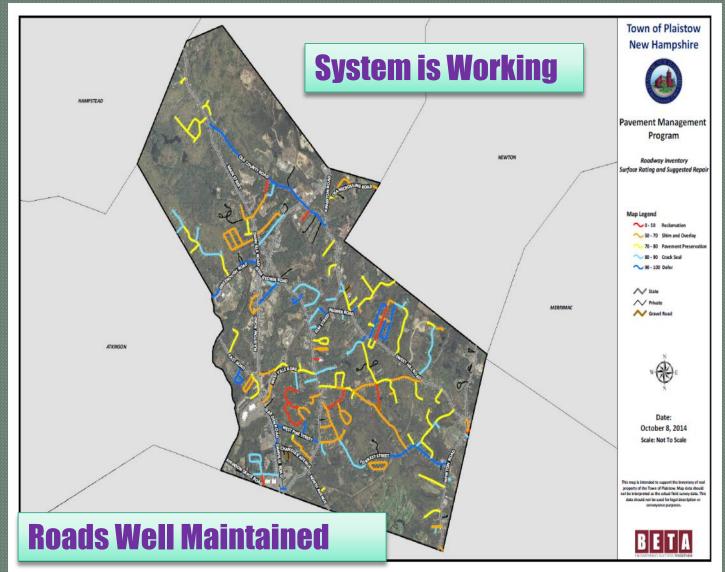
// Private



- ✓ Slow traffic speeds and reduce accidents on Main Street
- ✓ Improve pedestrian safety
- ✓ Build upon and expand the existing sidewalk network
- Encourage walking & Biking

Road Surface Management System (RSMS)





Components of the <u>RSMS</u>

Program

Road Inventory

Road Surface Condition Survey

Priority Analysis

Repair Selection

Planning & Budget Preparation



Master Plan Physical Improvements

Project Location	Funding Source	Project Description	Project Status	
Danville Road & Main Street	Beede Superfund Site funds	Intersection Improvement	Completed - 2013	
NH Route 125 & Main Street	Rt. 125 widening project	Intersection Improvement	Completed - 2012	
Main Street & Railroad crossing	Town CIP/State & Fed Grants	Reduce Roadway Width To Match SRTS Roadway Profile	Not started	
In front of Town Hall	Town CIP/State & Fed Grants	Reduce Roadway Width To Match SRTS Roadway Profile	Not started	
Elm Street Intersection	Safe Routes To School (SRTS)	Intersection Improvement – Adding Sidewalks & Crosswalk Identification	In Progress, expect completion by 9/2016	
In front of Pollard School	SRTS, Unknown source to construct fixes for all identified concerns	Intersection Improvement – Adding Sidewalks & Crosswalk Identification	In Progress, partial completion by 9/16	
Library & Bittersweet Drive	Town CIP/State & Fed Grants	Sidewalk Improvements	Not started	
East & West Pine Street Intersection	Town CIP/State & Fed Grants	Intersection Improvement	Not started	
North Avenue/ Chandler Ave Intersections	Town CIP/State & Fed Grants	Intersection Improvement	Not started	
NH 125 & State Line	State Line Plaza redevelopment	Intersection Improvement & Reconfiguration	Completed – 2008 Note: New signal installed at Hazeltine St and Rt 125; Rt 121- A redirected to Hazeltine	

Transportation Chapter Summary of Recommendations

ESTABLISH CAPITAL PROJECTS THAT SHOULD BE INCLUDED IN THE TOWN'S CIP

ROADWAY MAINTENANCE AND IMPROVEMENT THAT ARE CONSISTENT WITH THE MASTER PLAN

ALTERNATIVE TRANSPORTATION MODE PROJECTS INCLUDING FACILITIES FOR BICYCLES AND TRANSIT.

PROJECTS Town's CIP Process/Board of Selectmen

MAINTAIN THE EXISTING ROADWAY SYSTEM AS WELL AS INTERSECTION UPGRADES.

Transportation Chapter Summary of Recommendations

REQUIRE NEW DEVELOPMENT TO INCORPORATE THE DESIGN PRINCIPLES, TRAFFIC CALMING MEASURES, AND BEST TRANSPORTATION PRACTICES INTO CONSTRUCTION STANDARDS

PLAN FOR PEDESTRIAN AMENITIES, SIDEWALKS, TRAIL AND PATHWAY NETWORK - ACCOMMODATE WALKERS, JOGGERS, HIKERS, AND BICYCLES.

PURSUE POTENTIAL BICYCLE PATHS ALONG EXISTING STATE ROUTES SUCH AS NH ROUTE 108, NH ROUTE 125 AND NH ROUTE 121A.

THE RECOMMENDATIONS CONTAINED IN THE MAIN STREET TRAFFIC CALMING STUDY AND NH DESIGN CHARRETTE SHOULD CONTINUE TO BE FUNDED AND IMPLEMENTED.

Work with Businesses/Developers



extent Elm Street.

What Have We Done To Help Plan for Improvements

Transportation Enhancement grant for sidewalk on Elm Street and Main Street.

Main Street Traffic Calming Study (RPC).

Village Center District Design Charrette and Study (Plan NH)

Handicapped parking improvements at Town Hall.

Travel Plan SRTS application & Award
Installed Radars and Speedometers on Main St
Closed Elm Street Slip Lane with DOT Approval.
2013 student and parent surveys - students
do not walk or bike to school today because of the
speed of traffic on Main Street, and to a lesser



Main St./Elm St. – Safe Routes To School



THE CAPITAL RESERVE FUND

Establishes a Transportation Fund for:

- Infrastructure projects
- Engineering expenses
- Right-of-Way expenses
- Construction expenses



- Sources for matching State & Federal funds
- Conceptual design expenses

To begin accumulating funds for needed transportation improvements the town has identified over years of study.

TRANSPORTATION INFRASTRUCTURE CAPITAL RESERVE FUND CREATION AND DEPOSIT

Article P-16-19: Shall the Town vote to establish a Transportation Infrastructure Capital Reserve Fund for the level funding of transportation infrastructure projects including Preliminary Engineering expenses, Right-of-Way expenses, construction expenses, sources for matching state and federal funds, and conceptual design expenses and further vote to raise and appropriate the sum of \$50,000 to be deposited into the Transportation Infrastructure Capital Reserve Fund? This capital reserve fund is being established pursuant to RSA35:1.

(Recommended by the Board of Selectmen (0-0-0) and the Budget Committee (0-0-0). This expense is in the 2016-2021 Capital Improvement Program as approved by the Planning Board.)

[Intent: To begin to set aside money for the improvements to transportation infrastructure. This money can only be spent by a vote at town Meeting. Reserve funds are invested in an interest bearing account.]

Main Street Traffic Calming



Traffic Calming Plan









- Plaistow, NH -

April, 2011

Prepared for the Town of Plaistow by The Rockingham Planning Commission



What are the Issues?? What are the Goals??



Issue: Truck Traffic on Main Street

Issue: Main Street as a shortcut for RT. 125

Issue: Construction on NH 125 impacting Main Street

Issue: Speeding on Main Street

Issue: Lack of Pedestrian/Biking Infrastructure

Goal: Reduce vehicle speeds on Main Street!!

Goal: Improve pedestrian safety!! Goal: Redirect heavy vehicles/utilize NH RT 125

Goal: Enhance the aesthetics of the corridor

Goal: Re-Design Intersections/Improve Safety

Main Street Traffic Calming StudyRecommendations:

Evaluate Ownership of Main Street Allow for additional mixed use development

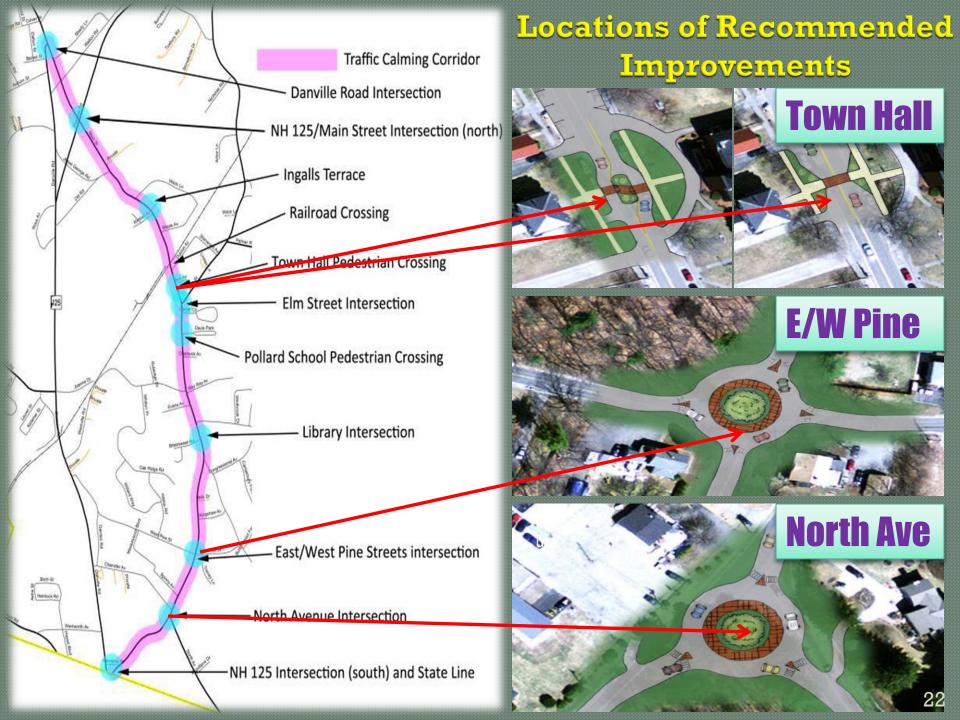
Increased Enforcement

Further Education

Utilize a Complete Streets Philosophy

- ✓ Curb bulbs/Bump Outs
- ✓ On-street parking
- ✓ More Visible Crosswalks
- √ Buffer zones
- ✓ Lighting
- ✓ Streetscapes, Landscaping
- ✓ Minimize Driveways
- Lower Speed Limit to 25 MPH through village area











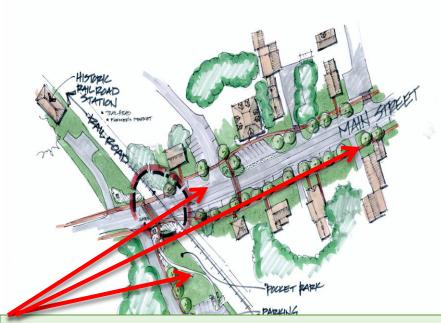
North Avenue Main Street Intersection



What are the possibilities??

Streetscapes, visible crosswalks, safer intersections, pedestrian ways!





Street Diets, reduced width, increased safety, pocket parks!

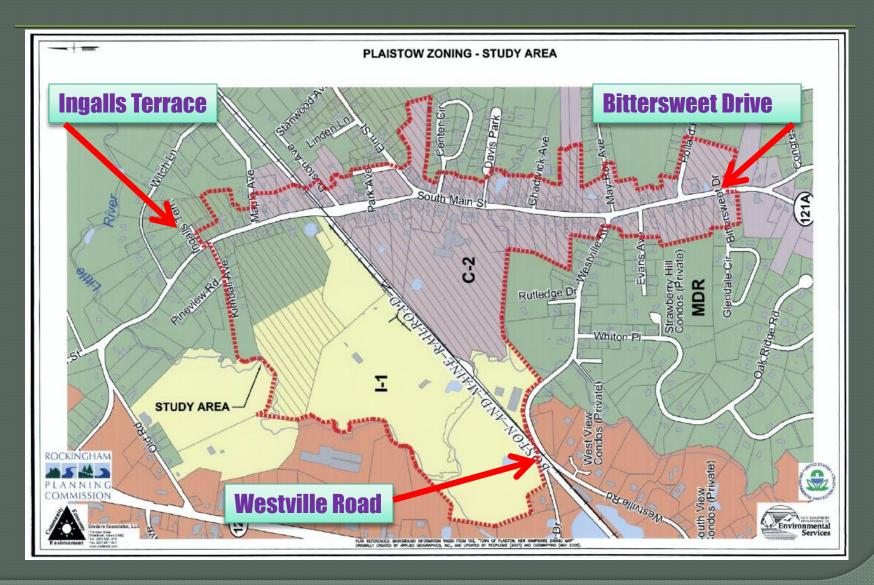


Community Design Charrette Plan NH





The Study Area



What are the Goals?

PNH · PLAISTOW 10.21/22.11

Missim Statement recommendations for Plaistow's historic village center in order to preserve and enhance its identity as the heart of thecommunity."

Goal: "To improve the pedestrian-friendly quality of the area: enhancing its walkability and pedestrian safety."

Plaistow's Main Street-strategies for improving pedestrian safety

Helping to preserve and enhance the Plaistow **Community's Identity**



Plan NH What are the Issues?





PLAN NH What were the Findings??



MAIN STREET CALMING PROJECTS

Article P-16-30: Shall the Town vote to raise and appropriate the sum of \$30,000 for the conceptual design and preliminary engineering for this intersection improvement?

(Recommended by the Board of Selectmen (0-0-0) and the Budget Committee (0-0-0). This expense is in the 2016-2021 Capital Improvement Program as approved by the Planning Board.)

[Intent: To allow the Town to appropriate the money needed to hire a consultant to complete the required conceptual design and preliminary engineering for this intersection improvement.]

Plaistow's Hazardous Mitigation Plan (2012)



Plaistow, NH Hazard Mitigation Plan Update 2012

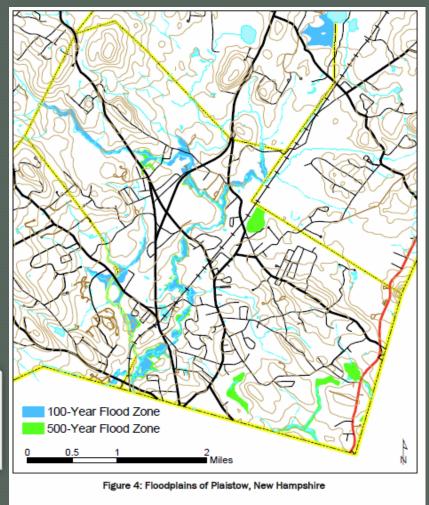
Approved by the

Plaistow Board of Selectmen

And adopted as an official appendix to the Plaistow Emergency Operations Plan



NH Homeland Security and Emergency Managment





Pollard Road at Congressional

Reoccurring Roadway Floods

Flooding





Past Occurrence: Flooding is a common hazard for the Town of Plaistow. Several locations were identified by the Committee as areas of chronic reoccurring flooding or high potential for future flooding.



Hazard Mitigation Plan & Transportation



Plaistow's Hazard Mitigation Plan was compiled to assist the Town of Plaistow in reducing and mitigating future losses from natural hazard events.

Plan allows the Town to seek and obtain State and Federal Funds.

Plan ensures that we are knowledgeable and working towards addressing potential hazards.

Critical Facilities:

- Municipal Facilities
- Communication Facilities
- Fire Stations/Police Facilities
- > Schools
- > Shelters
- > Evacuation Routes
- > Vulnerable Populations

Natural hazards:

- > Flooding
- Hurricane-High Wind Event
- Severe Winter Weather
- > Wildfire
- Earthquake

Hazard Mitigation Plan & Transportation



Components of the Hazard Mitigation Plan

- Step 1 Map the Hazards
- Step 2 Identify Critical Facilities and Areas of Concern
- Step 3 Identify Existing Mitigation Strategies
- Step 4 Identify the Gaps in Existing Mitigation Strategies
- Step 5 Identify Potential Mitigation Strategies
- Step 6 Prioritize and Develop the Action Plan
- **Step 7 Determine Priorities**
- **Step 8 Develop Implementation Strategy**
- Step 9 Adopt and Monitor the Plan

Hazard Mitigation Plan & Transportation



Flooding - common hazard Plaistow. Several locations identified by the as areas of chronic reoccurring flooding or high potential for future flooding.

Areas are listed below.

- ❖ Junkyard on Rt. 121A
- Fran Avenue
- ❖ Walton Road at Rt. 125
- **❖ Brentwood Street-Lower Road**
- Kingston Road-Old Country Rd
- **❖** Garden Road-Bridge
- Westville Road-Bridge
- Cifre Lane (A)-Culvert
- * Pollard Road at Congressional
- Smith Corner Road-Culvert
- ❖ Cifre Lane (B)-Culvert
- *** Forrest Street-Culvert**
- Historical Society Building-Potential Dam Breech

	Table 6. Possible Hooding damage to localized high risk aleas of Plaistow						
		Potential Flood Hazard Area	Total Assessed Value of Buildings	49% Damage	28% Damage	20% Damage	
	A.	Junkyard on Rt. 121A	\$55,900	\$27,391.00	\$15,652.00	\$11,180.00	
<mark>6</mark>	В.	Fran Avenue	\$447,100	\$219,079.00	\$125,188.00	\$89,420.00	
	Ċ.	Walton Road at Rt. 125	\$870,200	\$426,398.00	\$243,656.00	\$174,040.00	
	D.	Brentwood Street-Lower Road	\$855,500	\$419,195.00	\$239,540.00	\$171,100.00	
	E.	Kingston Road-Old Country Road	\$322,700	\$158,123.00	\$90,356.00	\$64,540.00	
	F.	Garden Road-Bridge	No Buildings	n/a	n/a	n/a	
	G.	Westville Road-Bridge	\$262,100	\$128,429.00	\$73,388.00	\$52,420.00	
	H.	Cifre Lane (A)-Culvert	\$343,700	\$168,413.00	\$96,236.00	\$68,740.00	
	I.	Pollard Road at Congressional	\$561,100	\$274,939.00	\$157,108.00	\$112,220.00	
	J.	Smith Corner Road-Culvert	\$130,100	\$63,749.00	\$36,428.00	\$26,020.00	
	K.	Cifre Lane (B)-Culvert	\$225,600	\$110,544.00	\$63,168.00	\$45,120.00	
	L.	Forrest Street-Culvert	\$317,000	\$155,330.00	\$88,760.00	\$63,400.00	

Table 8: Possible flooding damage to localized high risk areas of Plaistow

HAZARD MITIGATION

Establishes a Fund for:

- Conceptual design for Pollard Rd drainage..
- Cost estimate for realignment of roadway..
- ✓ Utilizes funds from Transportation Capital Reserve Fund..

Cheaper to Fix it Now than to Fix it later

It's a Safety Hazard for Motorists & the public

It's an Environmental & public safety Hazard

HAZARD MITIGATION PROJECTS

Article P-16-29: Shall the Town vote to raise and appropriate the sum of \$20,000 for a conceptual design and project cost estimate for the Pollard Road drainage and realignment project and further to withdraw \$20,000 from the Transportation Infrastructure Capital Reserve Fund? Note this warrant article shall be null and void if Article P-16-19 (Reserve Fund Deposit) does not pass.

Appropriation: Withdrawal from the Transportation	\$20,000
Infrastructure Capital Reserve Fund:	- \$20,000
Amount to be raised by taxation:	\$0

(Recommended by the Board of Selectmen (0-0-0) and the Budget Committee (0-0-0). This expense is in the 2016-2021 Capital Improvement Program as approved by the Planning Board.)

[Intent: To fund the conceptual design and project cost estimates for the Pollard Road drainage and realignment project.]

Summary & Recommendations

What are we trying to do?

- Establish a Transportation Capital Reserve Fund for Transportation projects such as safety improvements, intersection redesign, & hazard mitigation work with roadways in our COMMUNITY.
- Establish funding for MAIN STREET CALMING PROJECTS that the Town has spent years studying, money investigating, and immense efforts to correct.
- Establish funds for conceptual design and project cost estimate for the Pollard Road drainage and realignment project! MITIGATE FLOODING & PROTECT PROPERTY



Questions/Comments

Traffic Calming Plan - Plaistow, NH-Prepared for the Town of Paliston by the Rockings or Palanting Commission Town of Plaistow, New Hampshire **Community Design Charrette** Historic Village District October 21 and 22, 2011



PLAN NH

Transportation

November 4, 2015 Adopted by Planning Board

The project was partially modes by Management Security and Emergency Management