

# **REQUEST FOR PROPOSALS**

**TOWN OF EXETER, NEW HAMPSHIRE**

Public Works Department

**PROFESSIONAL ENGINEERING SERVICES**

**Linden & Court Street Culvert Replacements –  
Engineering Services**

**RFP No. DPW 2013-02**

**TOWN OF EXETER, NH  
DEPARTMENT OF PUBLIC WORKS**

**RFP No. DPW 2013-02  
REQUEST FOR PROPOSALS**

**PROFESSIONAL ENGINEERING SERVICES  
Linden & Court Street Culvert Replacements**

**INTRODUCTION**

The Town of Exeter is requesting consulting services for the investigation and cost effective design for the upgrade of the culverts that carry Linden Street and Court Street over Little River.

The consultant will need to provide timely services to design this project and to supply appropriate guidance for the capital improvements program for construction of the Linden St culvert in 2015.

**GENERAL REQUIREMENTS**

Invited consulting firms making proposals must respond in writing to all requirements of this Request for Proposal (RFP). Responses should reflect detailed considerations of the issues and opportunities presented by this specific project. Any additional information or tasks that are felt to be relevant by the responding firm should be included together with the submittal requirements.

Sealed proposals, plainly marked "**RFP No. DPW 2013-02 - Proposal for Linden & Court Street Culvert Replacements - Engineering Services**" on the outside of the mailing envelope, addressed to:

Town of Exeter  
Public Works Department  
Public Works Director  
13 Newfields Rd  
Exeter, NH 03833

will be accepted until **2:00 p.m. on Tuesday, December 31, 2013** at the Public Works office. Five copies of the proposal shall be submitted. One cost proposal, in a separate sealed envelope, shall be included in the proposal.

Costs incurred for the preparation of a proposal in response to this RFP shall be the sole responsibility of the firm submitting the proposal. The Town of Exeter reserves the right to select or reject any consultant firm that it deems to be in the best interest to accomplish the project specified. The Town reserves the right to accept the proposal on one or more items of a

proposal, on all items of a proposal or any combination of items. The Town reserves the right to discontinue the selection process at any time prior to the awarding of a contract. There will be no reimbursement to any candidate firm if the selection process is terminated. The Town reserves the right to waive defects and informalities of the proposals.

## **BACKGROUND**

The Linden Street Culvert is on the Municipal Red List for its structural deficiency. The Court Street Culvert is not presently on the Municipal Red List, but is near the Red List Status. The structures are of similar type, and were installed within two years of each other.

This project has received approval for design from the voters in 2013 Town Meeting for the amount of \$150,000.

Capital Improvement Project plans for the rigid frame construction options have carried \$635,000 for the Linden St culvert and \$845,000 for Court St one year later.

## **CONSULTANT INVITATIONS**

In September 2010, the Town requested proposals from consulting firms for the design of the Jady Hill Utility project. It was specifically stated in that RFP that qualified respondents may be called upon for future projects without going through a similar RFP process. The following pre-qualified consulting firms from the Jady Hill project have been invited to the proposal process:

- AECOM
- CMA Engineers
- Dubois & King
- Hoyle Tanner & Associates, Inc.
- Underwood Engineers, Inc.

Weston & Sampson and Wright-Pierce have been excluded from this project because of their current work load with the Town.

## **PROJECT TASKS**

1. Design both culverts to meet all regulatory requirements.
2. Obtain all permits to allow for construction.
3. Perform all geotechnical analysis as necessary.
4. Culverts to pass all anticipated vehicles and loadings without restrictions.

5. Hydraulically size the culverts for appropriate river flows. Discuss the effects of the Exeter River backwater flows on culvert sizing for the various Great Dam modification and removal options.
6. Provide parameters for water diversions or cofferdams during construction.
7. Accommodate existing utilities in the new design and during the various construction stages.
8. Prepare detour plans and signage requirements.
9. Survey the project area. Coordinate with the various utility companies to mark out their utilities prior to survey work. Obtain underground utility locations and elevations. Locate the right-of-way and property boundaries.
10. Prepare easement documents, if necessary, for the construction of the projects.
11. Prepare design plans and project specifications. Separate final documents will be required for the Linden and Court St culvert replacements. Provide the town with six copies each of the final plans and specifications.
12. Update the project probable costs and schedule prior to May 15, 2014 for inclusion in the Town Capital Improvement Program.
13. Provide project probable costs at final design plans.
14. Attend meetings with permitting agencies as necessary. Attend one Board of Selectmen meeting to discuss final plans and project estimates. Facilitate as many meetings as necessary with public works staff for successful designs.
15. Bidding services, construction administration, shop drawing review and resident engineering services are not included at this time, but may be added during subsequent construction phases.

### **PRE-PROPOSAL MEETING**

There will be a mandatory pre-proposal meeting at 10:00 a.m. on Thursday, December 19, 2013 at Exeter Public Works, 13 Newfields Road, Exeter, New Hampshire to discuss this project and answer questions.

### **TIMELINES**

The work is to be completed as expeditiously as possible.

The Consultant Selection Schedule is as follows:

Request for Proposals	Wednesday, December 11, 2013
Pre-proposal Meeting	Thursday, December 19, 2013
Consultant Proposals Due	Tuesday, December 31, 2013
Consultant Interviews (if necessary)	Wednesday, January 8, 2014
Contract Approval	Selectmen Meeting shortly thereafter

### **INFORMATION AVAILABLE**

- Roadway Culvert Evaluation – Linden and Court Streets – Exeter, NH dated July 2012 by CMA Engineers  
[http://exeternh.gov/sites/default/files/fileattachments/lindenstreetandcourtstreetculvertsreportbycmaengineers2012\\_0.pdf](http://exeternh.gov/sites/default/files/fileattachments/lindenstreetandcourtstreetculvertsreportbycmaengineers2012_0.pdf)
- NHDOT Bridge Reports – attached
- Exeter MapsOnline – GIS information  
<http://mapsonline.net/exeternh/>
- 2014 Capital Improvement Plan Project Sheet Submittal – This will be revised for construction monies for Linden St Culvert in 2015 and for Court St in 2016.  
[http://exeternh.gov/sites/default/files/fileattachments/cip\\_2014.pdf](http://exeternh.gov/sites/default/files/fileattachments/cip_2014.pdf) (Sheet 38)
- A hydrologic model of the Exeter River watershed was developed using HEC-HMS for the purpose of determining flood flows at the Great Dam in Exeter. The model includes 53 sub-basins plus various reservoir, reach and junction elements. A digital copy of the analysis files will be made available to invited consultants. Please contact Jay Perkins if you wish to obtain the CD prior to the pre-proposal meeting.
- Exeter River Great Dam Removal Feasibility and Impact Study – Final Report dated October 2013 by VHB –  
[http://exeternh.gov/sites/default/files/fileattachments/2013-10-31\\_feasibility\\_report\\_final\\_complete.pdf](http://exeternh.gov/sites/default/files/fileattachments/2013-10-31_feasibility_report_final_complete.pdf)
- Exeter River Great Dam Removal Feasibility and Impact Study – Final Report Appendices dated October 2013 by VHB –  
[http://exeternh.gov/sites/default/files/fileattachments/2013-10-31\\_feasibility\\_report\\_final\\_appendices\\_complete.pdf](http://exeternh.gov/sites/default/files/fileattachments/2013-10-31_feasibility_report_final_appendices_complete.pdf)

## **PROPOSAL SUBMITTAL REQUIREMENTS**

1. Cover letter
2. Project understanding
3. Project approach to accomplish the Work
4. Scope of Services – Highlight major tasks that were not specifically called out in the Project Tasks.
5. List of similar work experience, including construction administration and resident engineering
6. Project Team Chart identifying the team
  - a. Principal-in-Charge
  - b. Project Manager
  - c. Project Engineer(s)
  - d. Sub Consultants
7. Project Schedule in Gantt format
8. Project cost proposal and breakdown by major tasks. The cost proposal shall be in a separate sealed envelope.
9. Five (5) copies of the proposal

**All submissions shall be limited to a maximum of 16 pages including the cover letter, schedules and resumes.**

## **EVALUATION CRITERIA & INTERVIEWS**

The Town of Exeter will review the proposals on the following criteria:

1. Understanding of the project
2. Approach to accomplishing the Work
3. Similar experience of the firm
4. Schedule for completing the work
5. Quality of proposal
6. Cost

## **CONTRACT DOCUMENT**

Upon selection, the successful Consultant will prepare Engineering Contracts for execution. Upon execution of the Contract the Consultant will be instructed to commence providing the work outlined in the contract. All information, data, documents, photos, computer records and other materials of any kind acquired or developed by the Consultant pursuant to this proposal shall be the property of the Town of Exeter.

## **TOWN ROLE**

Town staff will be responsible for administering the project and overseeing the consultant's work on this project. Representatives of the Town's Public Works Department will review plans and other documents prepared by the consultant.

## **RESERVATION OF RIGHTS**

The Town reserves the right to make such inquiries regarding the firm's qualifications and reputation as it deems necessary to evaluate the firm.

The Town reserves the right to negotiate directly with the firm selected for additional project work including design, construction administration services, and/or additional project engineering and design services.

## **CONTACT INFORMATION**

If you have any questions regarding the request, please contact Jay Perkins, Highway Superintendent, (603) 773-6157.



THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION

April 13, 2012



CHRISTOPHER D. CLEMENT, SR.
COMMISSIONER

Russell Dean, Exeter Town Manager
Town of Exeter
10 Front Street
Exeter, NH 03833

JEFF BRILLHART, P.E.
ASSISTANT COMMISSIONER

RE: BIENNIAL INSPECTION OF MUNICIPALLY OWNED BRIDGES
TOWN OF EXETER

Dear Mr. Dean:

Enclosed are copies of biennial bridge inspection reports for nine municipally owned bridges in the Town of Exeter. Included are a suggested guardrail detail sheet, location map, bridge-listing sheet, and a sheet explaining the condition ratings used on the reports. Please note that the Red List bridges are in bold type.

Table with 3 columns: Bridge #, Location, Recommended Posting. Includes handwritten notes like 'Paint 2006' and '1930 2008'.

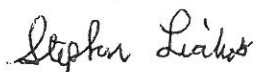


Russell Dean, Town Manager  
April 13, 2012  
Page 2 of 2

Please note if there are any changes in the recommended weight posting or lack of postings for your bridges. Even though a bridge may be recommended for a weight posting or closure by the State, the decision to properly post or close the structure is the responsibility of the municipal officials. It is in the best interest of the municipality to post or sign your bridges in accordance with these recommendations. A failure to warn motorists of potential bridge hazards could result in tort liability claims. Also, if your bridges are not posted properly, it will result in forfeiture of any possible federal highway funds for projects in your municipality.

Our bridge inspectors have indicated that the bridges listed on page one of this letter are in compliance with DOT's recommendations; therefore no action needs to be taken by the Town. Please call if there are any questions.

Sincerely,



for Nancy J. Mayville, P.E.  
Municipal Highways Engineer  
Bureau of Planning & Community Assistance  
Tel.: (603) 271-2107 / Fax: (603) 271-8093

NJM/sa

Enclosures

cc: District 6  
Exeter Public Works Director  
Commissioner, Department of Education  
Risk Management Representative, Local Government Center

M:\1-Municipalities\Exeter\Bridge Insp\Biennial 4-13-12.doc

# Bridge Inspection Report

Exeter 087/062

Date of Inspection: 01/09/2012

Date Report Sent: 3/13/2012

Picture taken during inspection

Owner: Municipality

LINDEN STREET

Over

LITTLE RIVER

### Recommended Postings:

Weight: E2

Weight Sign OK

Width: Not Required

Width Sign OK

Primary Height Sign Recommendation: *None*

Optional Centerline Height Sign Rec: *None*

Clearances: Over:  
(Feet) Under: 0.00  
Route:

Height Signs OK

### Condition: Municipal Redlist

Deck: N N/A (NBI)

Superstructure: N N/A (NBI)

Substructure: N N/A (NBI)

Culvert: 4 Poor

### Structure Type and Materials:

Number of Spans Main Unit: 2

Number of Approach Spans: 0

### Main Span Material and Design Type

Steel Culvert

Sufficiency Rating: 68.9%

NBI Status: Structurally Deficient

Bridge Rail: Substandard

Rail Transition: Substandard

Bridge Approach Rail: Substandard

Approach Rail Ends: Substandard

NH Bridge Type: Metal Pipe

Deck Type: No Deck ( N/A - NBI)

Wearing Surface: No Deck ( N/A - NBI)

Membrane: No Deck ( N/A - NBI)

Deck Protection: No Deck ( N/A - NBI)

Pavement thickness: 3.0 in

Curb Reveal: Not Applicable

Plan Location: Unknown

Total Bridge Length: 29.0 ft

Right Curb/Sidewalk Width: 7.0 ft

Total Bridge Width: 29.0 ft

Median: No median

Bridge Skew: 0.00 °

### Bridge Dimensions:

Length Maximum Span: 13.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Width Curb to Curb: 0.0 ft

Approach Roadway Width (W/ Shoulders): 24.0 ft

### Bridge Service:

Type of Service on Bridge: Highway and Pedestrian

Type of Service under: Waterway

Lanes on bridge: 2

Lanes Under: NA

AADT: 4200

Percent Trucks: 4 %

Year of AADT: 2006

Future AADT: 6216

Year of Future AADT: 2032

Year Built: 1967

Year Rebuilt: Not Rebuilt

Detour Length: 2.0 mi

# Bridge Inspection Report

Exeter 087/062

Federal or State Definition Bridge: Fed. Definition Bridge  
 Roadway Functional Class: Rural Local  
 New Hampshire Highway System and Class: Municipal Highway  
 Eligibility for the National Register of Historic Places: Possibly eligible  
 Traffic Direction: Two-way traffic

**National Bridge Inventory (NBI) Appraisal Ratings:**

Deck Geometry: Not Applicable (NBI)  
 Underclearances: Not Applicable (NBI)  
 Approach Alignment: Equal Desirable Criteria  
 Structural Evaluation: Minimum Tolerable  
 Channel/Channel Protection: Bank Slumping  
 Waterway Adequacy: Equal Desirable Criteria  
 Bridge Scour Critical Status: Stable for extreme flood  
 Riprap Condition: Good Condition  
 Debris Present: Debris Present  
*UNDERMINED AT ENDS OF PIPES 6 INCHES TO 1 FOOT.*  
 Date of Underwater Inspection: Not Applicable

**AASHTO CoRe Element Condition State Data:**

No.	Description	Env.	Material Notes and Condition Notes
240	Culvert (includes Steel, Aluminum and Galvanized)	Moderate	<i>MP 6" X 2" X 3/16" PLATE. UNDER 3 FEET OF FILL. METAL PIPE AT SOUTH IS HOLED IN SEVERAL AREAS. HEAVY RUSTING AND PITTED WITH MODERATE SECTION LOSS ON INVERT. MINOR INSTALLATION DAMAGE AND SAG IN ROOF. FEW VOIDS BETWEEN STONES BETWEEN BARRELS. UNDERMINED 6 INCHES AT ENDS.</i>
361	Scour Condition Warning Flag	Moderate	<i>Element record added 2012-01-09. UNDERMINED AT ENDS OF PIPES 6 INCHES TO 1 FOOT.</i>
363	Section Loss Condition Warning Flag	Moderate	<i>Element record added 2012-01-09. MPS HOLED IN SEVERAL AREAS. HEAVY RUSTING AND PITTING.</i>

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
240	Culvert (includes Steel, Aluminum and C	Moderate	89	(LF)	0 %	0 %	100 %	0 %	
361	Scour Condition Warning Flag	Moderate	1	(EA)	100 %	0 %	0 %		
363	Section Loss Condition Warning Flag	Moderate	1	(EA)	0 %	100 %	0 %	0 %	

**Bridge Notes:**

**Approach and Roadway Notes:** ASPHALT- OK. W- BEAM / CHANNEL - DAMAGED.

## Bridge Inspection Report

Exeter 087/062

**Inspection History:**

<b>Inspection Date:</b> 01/09/2012	<b>Inspector:</b> KJT	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> <i>KJT inspection comments - CULVERT- METAL PIPE AT SOUTH HOLED IN SEVERAL AREAS. HAS HEAVY RUSTING AND PITTED. WITH MODERATE SECTION LOSS ON INVERT. MINOR INSTALLATION DAMAGE AND SAG IN ROOF. FEW VOIDS IN STONES BETWEEN BARRELS. UNDERMINED 6 INCHES AT ENDS.</i>		<b>Super:</b> N N/A (NBI)
<i>PICTURES:C443. 09.MP HOLED AT NORTHWEST. 10.HEAVY RUSTING AND PITTING. 11.WEST ELEVATION. 12.SOUTH APPROACH.</i>		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 4 Poor
<b>Inspection Date:</b> 01/27/2010	<b>Inspector:</b> DPC	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> <i>DPC inspection comments - CULVERT- ELEMENTS IN FAIR CONDITION. METAL PIPE HAS HEAVY RUSTING WITH LIGHT SECTION LOSS ON INVERT. MINOR INSTALLATION DAMAGE AND SAG IN ROOF. FEW VOIDS IN STONES BETWEEN BARRELS. UNDERMINED 6 INCHES AT ENDS.</i>		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 5 Fair
<b>Inspection Date:</b> 01/31/2008	<b>Inspector:</b> DPC	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> <i>DPC - inspection comments - CULVERT- ELEMENTS IN FAIR CONDITION. METAL PIPE HAS HEAVY RUSTING WITH LIGHT SECTION LOSS ON INVERT. MINOR INSTALLATION DAMAGE AND SAG IN ROOF. FEW VOIDS BETWEEN STONES BETWEEN BARRELS. UNDERMINED 6 INCHES AT ENDS.</i>		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 5 Fair
<b>Inspection Date:</b> 09/06/2006	<b>Inspector:</b> RLM	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> <i>RLM inspection comments - CULVERT- ELEMENTS IN SATISFACTORY CONDITION. METAL PIPE HAS HEAVY RUSTING WITH MINOR SECTION LOSS ON INVERT. MINOR INSTALLATION DAMAGE AND SAG IN ROOF. FEW VOIDS BETWEEN STONES BETWEEN BARRELS.</i>		<b>Super:</b> N N/A (NBI)
<i>PIC(S): C324- 40.</i>		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory
<b>Inspection Date:</b> 03/04/2002	<b>Inspector:</b> DPC	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> <i>Sufficiency Rating Calculation Accepted by DEP at 09/12/2002 08:24:07 DPC inspection comments - CULVERT- ELEMENTS IN SATISFACTORY CONDITION. METAL PIPE HAS HEAVY RUSTING WITH MINOR SECTION LOSS ON INVERT. MINOR INSTALLATION DAMAGE AND SAG IN ROOF.</i>		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory
<b>Inspection Date:</b> 09/12/2000	<b>Inspector:</b> DPC	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> <i>Sufficiency Rating Calculation Accepted by DEP at 04-09-2001 12:43:16 DPC inspection comments - CULVERT: METAL PIPE HAS HEAVY RUSTING WITH MINOR SECTION LOSS ON INVERT. MINOR INSTALLATION DAMAGE AND SAG IN ROOF.</i>		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory
<b>Inspection Date:</b> 09/01/1996	<b>Inspector:</b> Not Available	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> <i>Sufficiency Rating Calculation Accepted by DEP at 12-23-98 08:00:31</i>		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory

# Bridge Inspection Report

Exeter 087/062

## Inspection History:

Inspection Date: 09/01/1994

Inspector: Not Available

Deck: N N/A (NBI)

Notes:

Super: N N/A (NBI)

Substr: N N/A (NBI)

Culvert: 6 Satisfactory

Inspection Date: 01/01/1993

Inspector: Not Available

Deck: N N/A (NBI)

Notes:

Super: N N/A (NBI)

Substr: N N/A (NBI)

Culvert: N N/A (NBI)

## Copy Distribution:

- (2) Bureau of Municipal Hghways
- (3) Bureau of Municipal Hghways
- Bureau of Turnpikes

- Border State
- Bureau of Rail and Transit
- Army Corps Of Engineers
- Railroad

- Dept. of Res. and Econ. Dev.
- Dept. of Environmental Services
- USDA Forest Service
- Bureau of Traffic

N.H. D.O.T.

TOWN Exeter

BRIDGE CAPACITY SUMMARY

BRIDGE NUMBER 087/068

DESIGN LOAD Unknown DESIGN METHOD Unknown RATED BY OLS DATE 1/18/83

RATING METHOD WSD CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

RATED MEMBER	EFFECTIVE SPAN LENGTH	REQUIRED CAPACITY			AVAILABLE CAPACITY					
		CURRENT LEGAL LOADS	CERTIFIED VEHICLES		MULTIPLE LANES LOADED		SINGLE LANE LOADED		INVENTORY OPERATING POSTING	INVENTORY OPERATING POSTING
			SINGLE UNIT	MULTIPLE UNIT	INVENTORY	OPERATING	INVENTORY	OPERATING		
Twin Structural Plate Pipe Arches (Buckling)	4'-0"	H14.0	—	—	H41.3	H56.7	—	H41.3	H56.7	—
Scall Strength			—	—	H35.2	H48.7	—	H35.2	H48.7	—

RECOMMENDED POSTING: Post "E-2" Until Evaluated For Certified Loads

64. (Op.) 149

66. (Inv.) 125

**EXETER 087/062**  
LINDEN STREET over LITTLE RIVER

Monday, January 09, 2012

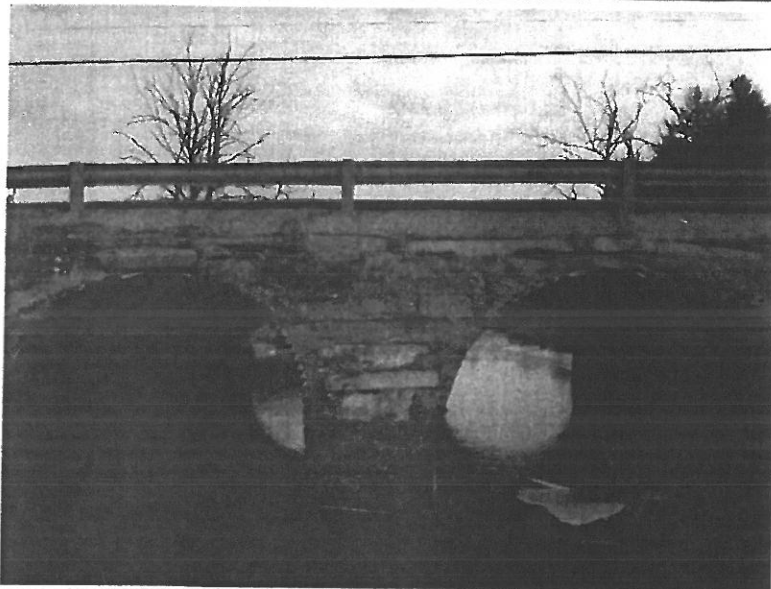
SOUTH APPROACH (RL)



C443 12

Monday, January 09, 2012

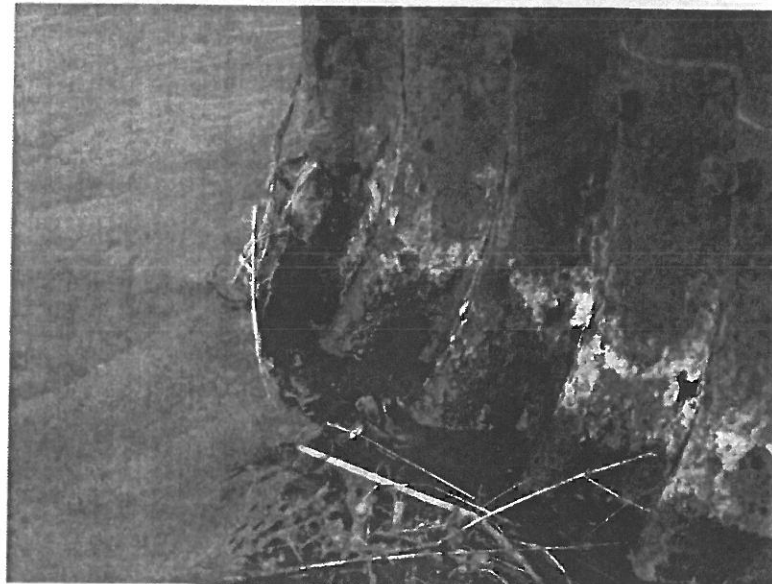
WEST ELEVATION (RL)



C443 11

Monday, January 09, 2012

MP HOLED AT  
NORTHWEST (RL)



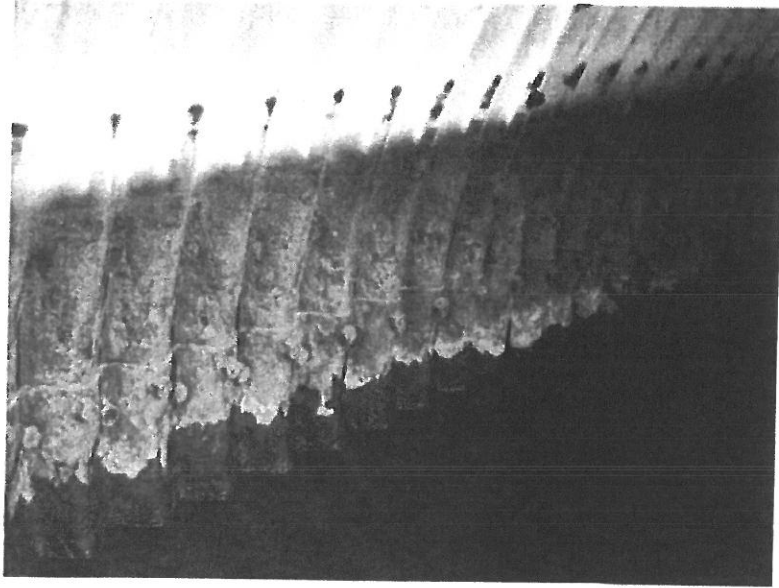
C443 09

**EXETER 087/062**

LINDEN STREET over LITTLE RIVER

Monday, January 09, 2012

HEAVY RUSTING AND  
PITTING (RL)



C443 10



# Bridge Inspection Report

Exeter 095/063

Date of Inspection: 01/06/2012

NH108

Date Report Sent: 3/13/2012

Over

Picture taken during inspection

LITTLE RIVER

Owner: Municipality

### Recommended Postings:

Weight: E2

Weight Sign OK

Width: Not Required

Width Sign OK

Primary Height Sign Recommendation: None

Clearances: Over:

Height Signs OK

Optional Centerline Height Sign Rec: None

(Feet) Under: 0.00

Route:

**Condition:** Not on the Redlist

### Structure Type and Materials:

Deck: N N/A (NBI)

Number of Spans Main Unit: 3

Superstructure: N N/A (NBI)

Number of Approach Spans: 0

Substructure: N N/A (NBI)

Culvert: 5 Fair

### Main Span Material and Design Type

Steel Culvert

Sufficiency Rating: 87.4%

NBI Status: Not Deficient

Bridge Rail: Meets Standards

NH Bridge Type: Metal Pipe

Rail Transition: Meets Standards

Deck Type: No Deck ( N/A - NBI)

Bridge Approach Rail: Meets Standards

Wearing Surface: No Deck ( N/A - NBI)

Approach Rail Ends: Meets Standards

Membrane: No Deck ( N/A - NBI)

Deck Protection: No Deck ( N/A - NBI)

Pavement thickness: 4.0 in

Curb Reveal: Not Applicable

Plan Location: 3-10-3-11

### Bridge Dimensions:

Length Maximum Span: 14.0 ft

Total Bridge Length: 49.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Right Curb/Sidewalk Width: 5.0 ft

Width Curb to Curb: 0.0 ft

Total Bridge Width: 0.0 ft

Approach Roadway Width (W/ Shoulders): 30.0 ft

Median: No median

Bridge Skew: 0.00 °

### Bridge Service:

Type of Service on Bridge: Highway and Pedestrian

Year Built: 1965

Type of Service under: Waterway

Year Rebuilt: Not Rebuilt

Lanes on bridge: 2

Detour Length: 3.0 mi

Lanes Under: NA

AADT: 6000

Percent Trucks: 5%

Year of AADT: 2008

Future AADT: 8880

Year of Future AADT: 2032

# Bridge Inspection Report

Exeter 095/063

Federal or State Definition Bridge: Fed. Definition Bridge  
 Roadway Functional Class: Urban Local  
 New Hampshire Highway System and Class: Primary-Compact Maint.  
 Eligibility for the National Register of Historic Places: Possibly eligible  
 Traffic Direction: Two-way traffic

**National Bridge Inventory (NBI) Appraisal Ratings:**

Deck Geometry: Not Applicable (NBI)  
 Underclearances: Not Applicable (NBI)  
 Approach Alignment: Equal Desirable Criteria  
 Structural Evaluation: Above Min. Tolerable  
 Channel/Channel Protection: Minor Damage  
 Waterway Adequacy: Equal Minimum Criteria  
 Bridge Scour Critical Status: Stable for extreme flood  
 Riprap Condition: Good Condition  
 Debris Present: Debris Present  
 Date of Underwater Inspection: Not Applicable

**AASHTO CoRe Element Condition State Data:**

No.	Description	Env.	Material Notes and Condition Notes
240	Culvert (includes Steel, Aluminum and Galvanized)	Moderate	3 Pipes - 2 1/2" X 9" X 1/8". GALV. STEEL WITH BITIMINOUS COATING. MODERATE RUSTING BELOW WATERLINE. ROOF SAGGED SLIGHTLY IN SOUTH BARREL. FEW PLATE GAPS. UNDERMINED 6 INCHES AT EACH END.

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
240	Culvert (includes Steel, Aluminum and Galvanized)	Moderate	151	(LF)	0 %	100 %	0 %	0 %	

**Bridge Notes:**  
SEE DIVING REPORT.

**Approach and Roadway Notes:** ASPHALT- CRACKS. W- BEAM RAIL- OK.

**Inspection History:**

**Inspection Date:** 01/06/2012      **Inspector:** KJT      **Deck:** N N/A (NBI)  
**Notes:**      **Super:** N N/A (NBI)  
*KJT - inspection comments -*      **Substr:** N N/A (NBI)  
*CULVERTS: MODERATE RUSTING. UNDERMINED 6 INCHES AT EACH END.*      **Culvert:** 5 Fair  
  
**PICTURES:** C443-  
 06. SLIGHT SAG IN ROOFLINE, SOUTH MP.

**Inspection Date:** 06/28/2010      **Inspector:** DPC      **Deck:** N N/A (NBI)  
**Notes:**      **Super:** N N/A (NBI)  
*DPC inspection comments -*      **Substr:** N N/A (NBI)  
*CULVERTS: MP's- ELEMENTS IN FAIR CONDITION. MODERATE RUSTING. UNDERMINED 6 INCHES AT EACH END.*      **Culvert:** 5 Fair

# Bridge Inspection Report

Exeter 095/063

## Inspection History:

<b>Inspection Date:</b> 01/12/2010	<b>Inspector:</b> DPC	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> DPC inspection comments - CULVERTS: MP's- ELEMENTS IN FAIR CONDITION. MODERATE RUSTING. UNDERMINED 6 INCHES AT EACH END.		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 5 Fair
<b>Inspection Date:</b> 01/31/2008	<b>Inspector:</b> DPC	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> DPC - inspection comments - CULVERTS: MP's- ELEMENTS IN FAIR CONDITION. MODERATE RUSTING. UNDERMINED 6 INCHES AT EACH END.		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 5 Fair
<b>Inspection Date:</b> 09/06/2006	<b>Inspector:</b> RLM	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> RLM inspection comments - CULVERTS: MP's- ELEMENTS IN SATISFACTORY CONDITION.		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory
<b>Inspection Date:</b> 03/04/2002	<b>Inspector:</b> DPC	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> Sufficiency Rating Calculation Accepted by DEP at 09/12/2002 08:24:07 DPC inspection comments - MP's- ELEMENTS IN SATISFACTORY CONDITION.		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory
<b>Inspection Date:</b> 12/15/2000	<b>Inspector:</b> DPC	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b> Sufficiency Rating Calculation Accepted by DEP at 11-21-2001 15:01:25 DPC inspection comments - MP's- ELEMENTS IN SATISFACTORY CONDITION.		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory
<b>Inspection Date:</b> 11/15/1998	<b>Inspector:</b> DPC	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b>		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory
<b>Inspection Date:</b> 09/01/1996	<b>Inspector:</b> Not Available	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b>		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory
<b>Inspection Date:</b> 09/01/1994	<b>Inspector:</b> Not Available	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b>		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory
<b>Inspection Date:</b> 01/01/1993	<b>Inspector:</b> Not Available	<b>Deck:</b> N N/A (NBI)
<b>Notes:</b>		<b>Super:</b> N N/A (NBI)
		<b>Substr:</b> N N/A (NBI)
		<b>Culvert:</b> 6 Satisfactory

## Copy Distribution:

- (2) Bureau of Municipal Hghways
- (3) Bureau of Municipal Hghways

- Border State
- Bureau of Rail and Transit
- Army Corps Of Engineers

- Dept. of Res. and Econ. Dev.
- Dept. of Environmental Services
- USDA Forest Service

# Bridge Inspection Report

Exeter 095/063

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Bureau of Turnpikes

Railroad

Bureau of Traffic

N.H. D.O.T.

TOWN Exeter

BRIDGE CAPACITY SUMMARY

BRIDGE NUMBER 005/063

DESIGN LOAD AASHTO HS20

DESIGN METHOD ASD

RATED BY DLB

DATE 1/10/83

RATING METHOD

CHECKED BY

DATE

RATED MEMBER	EFFECTIVE SPAN LENGTH	REQUIRED CAPACITY			AVAILABLE CAPACITY								
		CURRENT LEGAL LOADS	CERTIFIED VEHICLES		MULTIPLE LANES LOADED			SINGLE LANE LOADED					
			SINGLE UNIT	MULTIPLE UNIT	INVENTORY	OPERATING	POSTING	INVENTORY	OPERATING	POSTI.			
12'-10" W x 8'-4" H <i>Buckling Capacity</i>	4'-3"	H114.7	—	—	H48.7	H67.3	—	H48.7	H68.3	—	H48.7	H68.3	—
<i>Seam Strength</i>			—	—	H84.2	H114.3	—	H84.2	H114.3	—	H84.2	H114.3	—
14'-1" W x 8'-9" H <i>Buckling</i>			—	—	H48.7	H67.3	—	H48.7	H68.3	—	H48.7	H68.3	—
<i>Seam Strength</i>			—	—	H97.7	H132.3	—	H97.7	H132.3	—	H97.7	H132.3	—

RECOMMENDED POSTING: Post 'E-2' until evaluated for limited loads

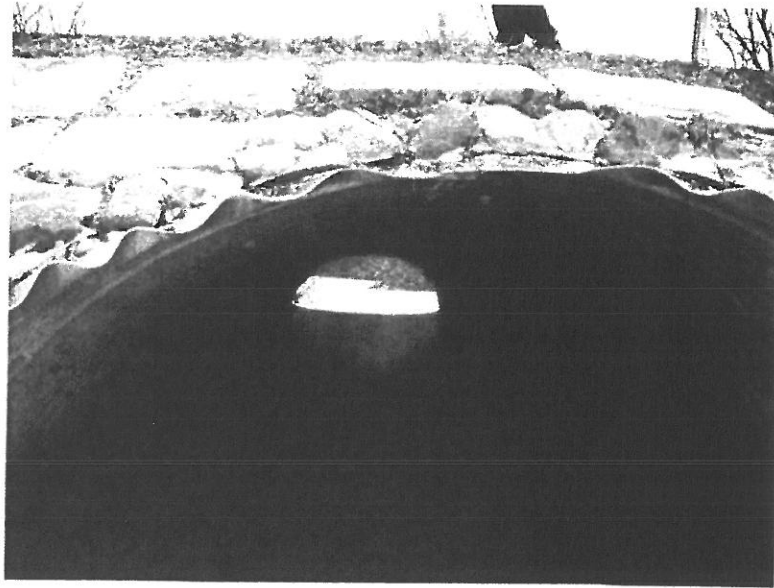
64. (Op.) 168

66. (Inv.) 149

**EXETER 095/063**  
NH108 over LITTLE RIVER

Friday, January 06, 2012

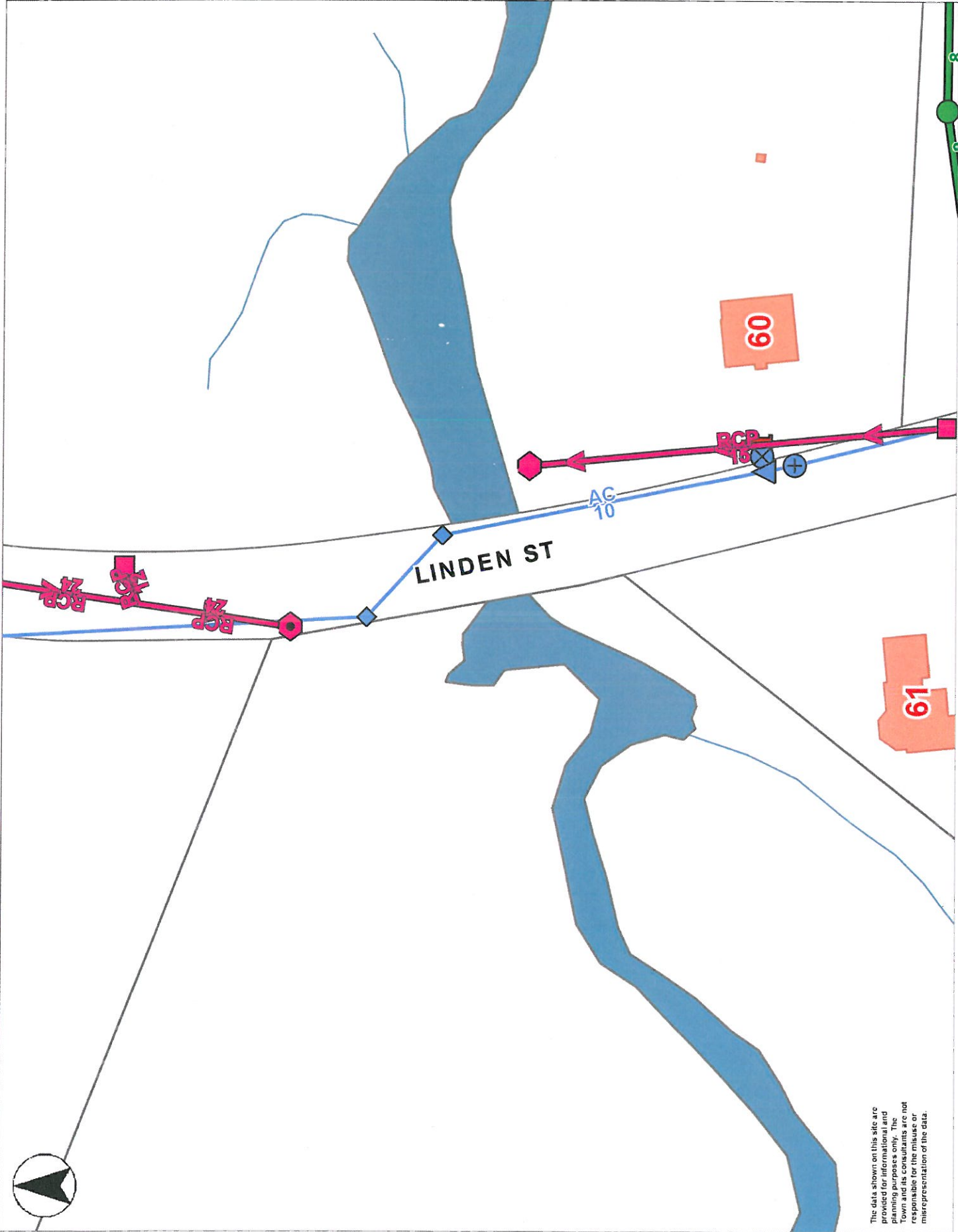
SLIGHT SAG IN ROOF LINE,  
SOUTH MP



C443 06



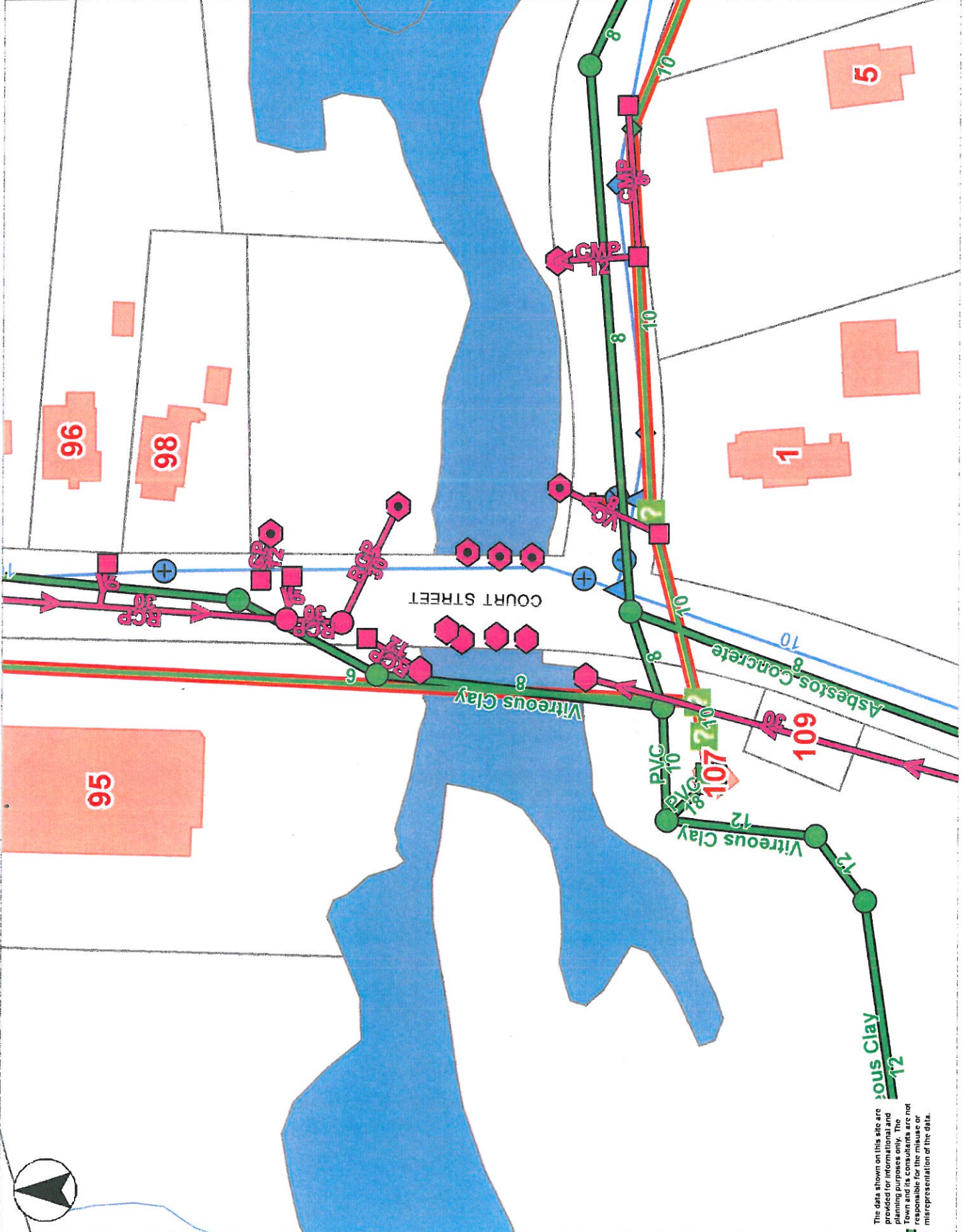
- Drainage Structures
- Utility Catchbasin
- Catchbasin
- Junction
- Drain Manhole
- Pipe End Inlet
- Pipe End Outlet
- Drain Pipes
- Sanitary Sewer Structures
- Cap
- Clean Out
- Deflection
- Grease Trap
- Manhole
- Pump Station
- Septic Tank
- Tee
- Sanitary Sewer
- Forced Main
- Sewer Pipes
- Water Structures
- Blow Off
- Cap
- Deflection
- Gate Valve
- Hydrant
- Hydrant Valve
- Junction
- Manhole
- Water Pit
- Other
- Pump Station
- Valve
- Wall
- Water Shutoff
- Water Pipes
- Parcels
- NH Highways
- Interstate
- US Highway
- State Highway
- Town Boundary
- Streets
- Misc Streams
- Parcel Streams
- Open Water
- Buildings



The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.



- Drainage Structures**
  - Auxiliary Catchbasin
  - Catchbasin
  - Junction
  - Manhole
  - Pipe End Inlet
  - Pipe End Outlet
  - Drain Pipes
- Sanitary Sewer Structures**
  - Clean Out
  - Deflection
  - Grease Trap
  - Manhole
  - Other
  - Pump Station
  - Septic Tank
  - Temporary
  - Sanitary Sewers
  - Force Mains
  - Sewer Pipes
  - Water Mains
  - Blow Off
  - Cap
  - Deflection
  - Gas Valve
  - Hydrant
  - Hydrant Valve
  - Junction
  - Manhole
  - Meter Pit
  - Other
  - PV
  - Pump Station
  - WO
  - Well
  - Water Shutoff
  - Water Pipes
- Parcels**
- NH Highways**
- Interstate**
- US Highway**
- State Highway**
- Town Boundary**
- Streets**
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- Parcel Streams**
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