

Town of West Stockbridge Road-Stream Crossing Inventory



Produced by
The Housatonic Valley Association
2021



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Introduction

Town of West Stockbridge Road-Stream Crossing Inventory

Executive Summary – August 2021

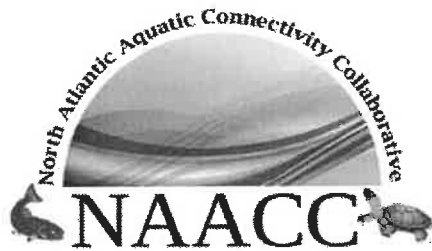
Over the past several years, the Housatonic Valley Association has assessed hundreds of road-stream crossings (i.e., culverts and bridges) across the Housatonic Watershed to identify barriers to fish and wildlife passage and flood risks. Barrier status is determined using a model developed by the Northeast Aquatic Connectivity Collaborative (NAACC). We have formed a partnership with the University of Connecticut's Civil and Environmental Engineering Department to model the risk-of-failure for non-bridge structures (i.e., culverts). The output from this model tells us how likely it is for each culvert to fail (i.e., flood the road) in different storm scenarios.

This Inventory represents the first step towards developing a comprehensive Road-Stream Crossing Management Plan for the Town of West Stockbridge. Ultimately it will be combined with the results of the town-wide prioritization, the conceptual designs and implementation strategies, and supporting information as the Town of West Stockbridge Road-Stream Crossing Management Plan. The Management Plan will be a tool the Town can use take advantage of every opportunity to reduce flood risk and improve stream habitat connectivity at road/stream crossings, including capital planning and regular maintenance, grant programs, and recovery operations in the wake of the next flood.

We hope that you find this document useful throughout the prioritization process, and we welcome your feedback.



Partners, Funders and Advisors

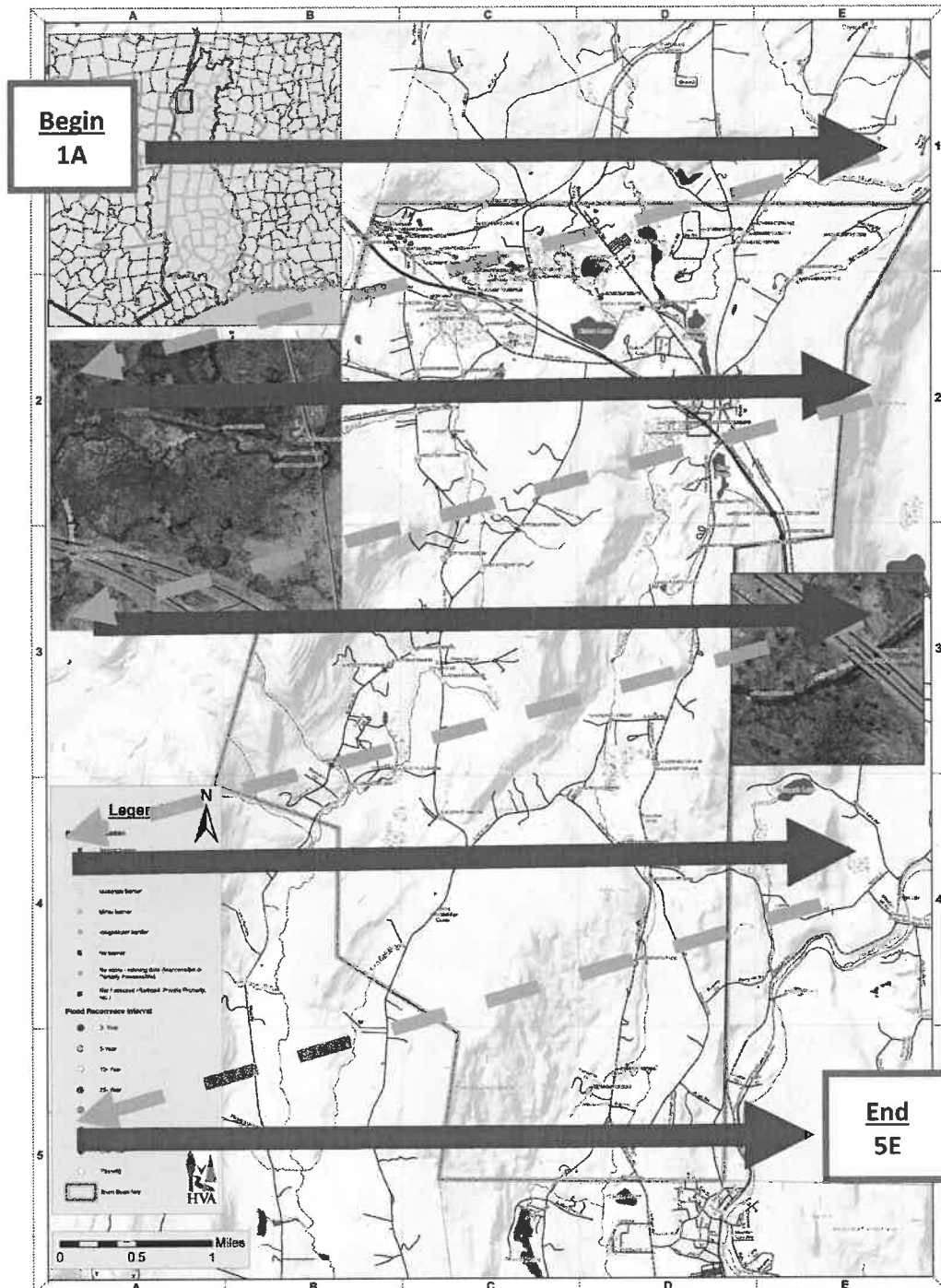


Reference Map(s)

A Note on Organization

In each section of the Inventory (i.e. Town, State, Private/Other), crossings are organized based on their location on the Reference Map. Each section begins with crossings in 1A, and ends with 5E. See diagram below:

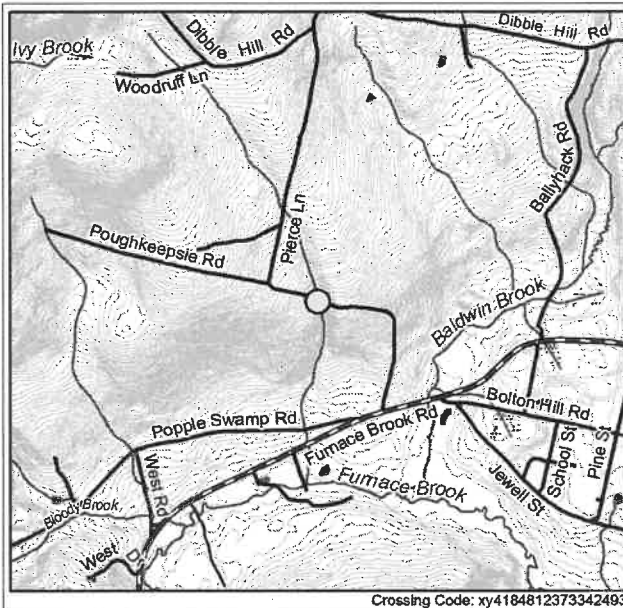
West Stockbridge Road-Stream Crossings



Interpretive Guide

Road: Pierce Lane

Stream: Unnamed



RESULTS

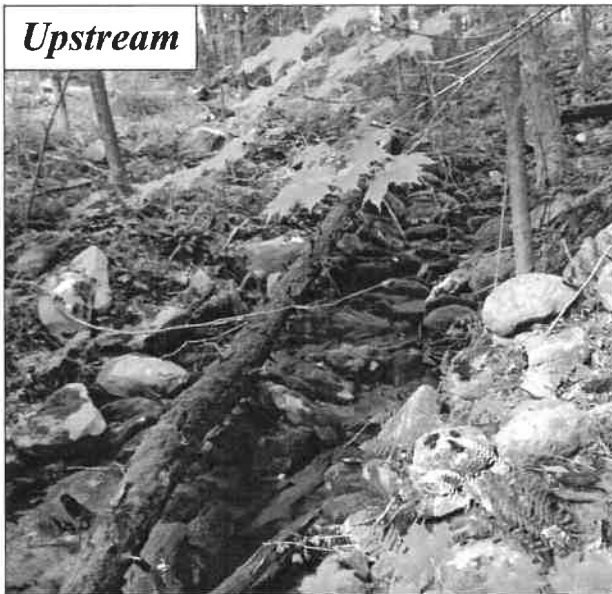
Barrier Evaluation: Severe barrier
Aquatic Organism Passage Score:
Habitat Restoration Rank: Ranked
Town Comments on Condition/Maintenance:
TBD
Overall Ranking: x out of x town structures

LOCATION

Coordinates: 41.84828, -73.34254
Location Description: Telephone pole 4886-4887
Date Observed: 2015-07-30
Crossing Code: xy4184812373342493

STREAM AND CROSSING

Upstream



CROSSING CHARACTERISTICS

Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

Downstream



STREAM CHARACTERISTICS

Scour Pool: Large
Bankfull Width (feet): 12
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: Cobble
Structure Substrate Matches Stream? Comparable

Crossing Comments: Old stonewall/dam impounding channel upstream.

ROAD: The road that the crossing is on.

STREAM: The waterway that passes through the crossing.

RESULTS

Barrier Evaluation: A description of how severe of a barrier the crossing is to fish and wildlife passage.

Aquatic Organism Passability Score: A score representing how easily an aquatic organism could pass through the structure (0=unpassable, 1= easily passable)

Habitat Restoration Rank: Developed by trout and conservation experts at a meeting hosted by HVA in July 2016.

Condition/Maintenance: Information about scheduled maintenance or replacement, *to be determined at Prioritization Meeting*

Overall Ranking: How the crossing stacks up against other town-managed structures for replacement prioritization based on its potential to reconnect habitat and its risk of failure in the event of a flood. To be determined.

LOCATION

Coordinates: GPS coordinates taken in the field.

Location Description: A brief description of landmarks or other identifying features to help locate the crossing.

Date Observed: The date the crossing was assessed for habitat continuity (format: YYYY-MM-DD).

Crossing Code: A unique 16-digit identification code assigned to each crossing based on its coordinates.

PHOTOS: Photos taken of the stream above and below the crossing.

STREAM CHARACTERISTICS

Scour Pool: The size of the pool (if there is one) at the crossing outlet. A scour pool is considered "Large" if it is twice the width and/or the depth of an average-sized pool in the stream.

Bankfull Width: This is the average width of the stream channel above which any additional water would spill out into the flood plain (for details, see the NAACC protocol). This value helps determine the Crossing Span.

Water Depth/Velocity Matches Stream: A comparison of the water depth/velocity inside of the structure with the stream channel away from the influence of the crossing.

Substrate Matches Stream: A comparison of the substrate inside the structure and the substrate in the stream channel.

Substrate Type: The dominant substrate type inside of the structure.

Substrate Coverage: The extent of the substrate inside the crossing structure as a continuous layer across the entire bottom of the structure.

CROSSING CHARACTERISTICS:

Crossing Type: This refers to the type of crossing it is, i.e. culvert, bridge, etc.

Number of structures/cells: The number of individual culverts or bridge cells that make up the crossing. Structures are numbered by looking at the inlet and counting from left to right.

Condition: The overall state of the crossing from a structural perspective, i.e. how likely it is to collapse.

Constriction: How far the crossing spans across the stream, and whether or not it constricts the stream flow.

Alignment: The crossing can be flow-aligned or skewed. A crossing is "Skewed" if the stream enters it a 45° angle or more.

Internal Features/Structures: Internal structures like baffles and weirs are listed here.

Crossing Comments: Any additional comments pertaining to the crossing or its surroundings. Additional photos are included

STRUCTURE NUMBER: This refers to the order crossings are listed in the Inventory document and can be used to look up certain structures

MAP KEY: Code to find the crossing on the Index Maps. "N" & "S"= "North" & "South", followed by the column and row num-

ROAD

Road Photo: Taken of the road surface above the crossing structure.

Road Type/Surface: A description of the type of road and the number of lanes, where applicable.

Road Fill Height: The height (in feet) from the top of the culvert inlet to the surface of the road.

Road Ownership: The entity (town, state, private homeowner, etc.) in charge of road maintenance

Return Interval Chart: Expresses the results of flood risk modeling performed by UCONN based on historical and field data.

-**Return Interval:** A return interval of 2 years means that the river has a 1 in 2 (or 50%) chance of reaching a certain peak flow in that time frame. Likewise, a return interval of 5 years means the river has a 1 in 5 (or 20%) chance of reaching the peak flow, and so on.

-**Peak Flow:** The highest velocity at which the water is predicted to move through the crossing at a given return interval. It is expressed in cubic feet per second (cfs).

-**Road Height:** The height at which water from the stream would overtop the road.

-**Stage Height:** The maximum height that water is predicted to get in each return interval

-**Overtop:** If the Stage Height is greater than the road height, then the crossing is predicted to fail.

INLET

Inlet Photo: A photo taken looking at the inlet of the crossing.

Inlet Shape: The shape of the inlet. In the UMASS protocol, this is referred to as the "Upstream/Downstream Crossing Type."

Inlet Type: The style of the inlet that influences how water enters the inlet (e.g. headwall, wingwalls, etc.).

Inlet Grade: Where the inlet is located in relation to the stream bottom (e.g. at stream grade, perched, etc.). For UMASS assessments, this information was only collected if the inlet was perched, in which case the height of the perch is also recorded.

OUTLET

Outlet Photo: A photo taken looking at the outlet of the crossing.

Outlet Shape: The shape of the outlet. In the UMASS protocol, this is referred to as the "Upstream/Downstream Crossing Type."

Outlet Drop/Grade: Whether or not an outlet drop is present (UMASS) or the grade in relation to the stream bottom (NAACC).

Drop to Stream Surface/Bottom: The distance (in feet) from the bottom of the structure to the surface of the water, and from the bottom of the structure to the stream bottom. This is particularly applicable to crossings that have an outlet drop.

ADDITIONAL STRUCTURE INFORMATION

Material: The type of material the structure is made out of, e.g. concrete, plastic, stone, etc.

Length (feet): To the nearest foot, measure of the length of the structure at its top.

Dry Passage/Height: The average height from the dry stream back to the top of the structure directly above.

Outlet Armoring: The material placed below the outlet for the purpose of diffusing flow and minimizing scour.

Crossing Slope: The slope of the structure expressed as a percentage.

Structure Comments: Any additional comments about the structure in question.

Physical Barriers/Severity: A description of any physical barriers such as debris, grates, etc. and its severity with regards to blocking fish movement (see NAACC protocol for more details).

Road



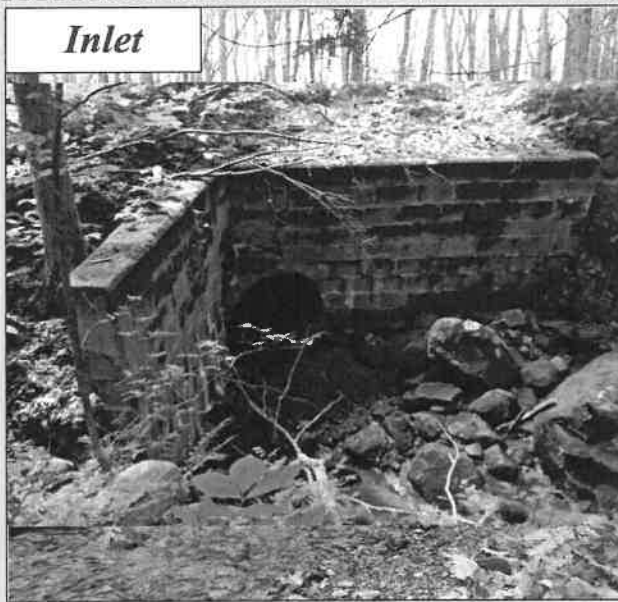
ROAD

Road Type/Surface: Paved
Road Fill Height (feet): 4.2
Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	32.3	7.9	0.3	No
5	45.8		0.4	No
10	57.8		0.5	No
25	76.7		0.7	No
50	93.9		1.0	No
100	113.9		1.3	No

STRUCTURE 1 OF 1

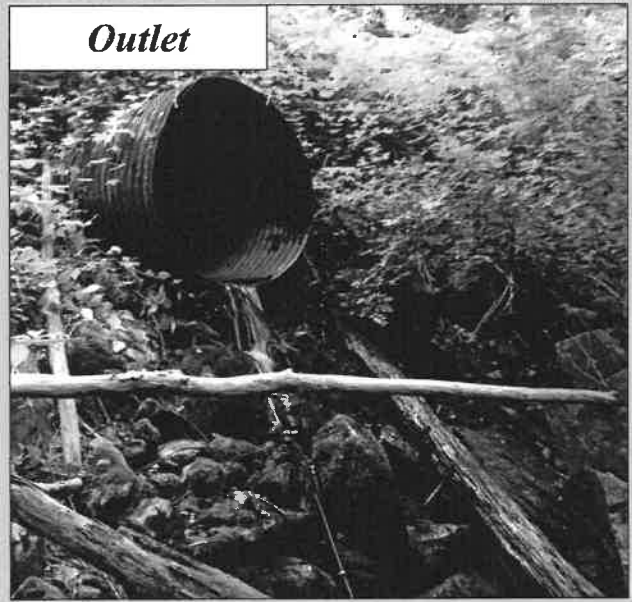
Inlet



INLET

Inlet Shape: Round Culvert
Inlet Type: Headwall and Wingwalls
Inlet Grade: At Stream Grade

Outlet



OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: Free Fall Onto Cascade
Drop to Stream Surface/Bottom: 5.5/5.8

Material: Metal
Length (feet): 30
Dry Passage/Height: None

Physical Barrier(s)/Severity: None
Slope (%): 3.0
Structure Comments: None

Culvert Prioritization Results

Top 5 Crossings for Flood Risk

This chart is a summary of town-managed road-stream crossings with the shortest flood intervals (i.e. most likely to flood the road) based on modeling performed by the University of Connecticut. Not that only closed-bottomed structures (e.g., culverts) were modeled for risk of failure.

Photo	Flood Interval	Structure #	Road	Map Key	Crossing Code
A	2	39	Great Barrington Road	4D	xy4227925873377435
B	2	41	Cobb Road	4D	xy4229032073379770
C	10	31	Great Barrington Road	3D	xy4229820073374840
D	25	25	West Alford Road	3B	xy4230764073408930
E	200	17	Baker Street	2C	xy4234505073391100





Town Prioritization Results

October 2020

The following road-stream crossings were specifically highlighted as town priorities in 2020. In determining priorities, highway managers from the Town of Richmond considered the following questions.

Guiding Questions:

- Which structures regularly flood the road?
- Has water over the road or other crossing failure blocked access for Town residents to essential services, such as Fire/EMS?
- Which structures require regular sediment, debris and/or ice removal?
- Are you aware of structures that are in poor condition and need to be repaired or replaced?

Photo	Structure #	Map Key	Road	Crossing Code	Notes
A	22	3B	Wilson Road	xy4229773273408268	#1 Priority - Beaver issues (no deceiver); Road floods and it is undermining the road; This was a bacteria monitoring site and the water level is consistently almost at the road level; On MA OLIVER as a CFR; Alford Brook Club maintains a trout pond for its members (downstream of this crossing); Alford Brook Club owns property adjacent to the crossing which floods almost to the basement windows of the structure; Willson Road is scheduled for repaving in 2022
B	16	2C	Baker Street	xy4234464173390891	#2 Priority - Flooding issues; crossing just north is for the larger volume; Flat Brook is a major tributary of the Williams River and it flows through Wildlife Management Area; Baker Street is in the middle of this Wildlife Management Area; top 5% in MA Climate Action Tool
C	15	2C	Smith Road	xy4234225573402368	#3 Priority - Beaver issues; whole road floods from State Road to the crossing.
D	27	3C	West Alford Road	xy4230886073406040	Beaver Issues - floods over the road. Flows into Alford Brook.
E	25	3B	West Alford Road	xy4230764073408930	Beaver Issues - floods over the road. Flows into Alford Brook.
F	1	1C	Cross Road	xy4235159773397034	Floods over the road, mostly spring thaw and with intense storms; upstream hydrology has changed; upstream of this crossing more water volume has been diverted and channeled making this a problem culvert (Potential item for Williams River Watershed-based Plan)
G	44	5D	Great Barrington Road	xy4226874573379942	Seasonal flow, but is undersized. While it is on Route 41, this stretch is town owned.
H	6	1E	Lenox Road	xy4234539073356710	This is an intermittent flow - not even a stream - it just occurs during intense storms; could be considered stormwater. Crossing is on a steep slope; development higher up the mountain has resulted in increased volume being channeled. Interns documented severe erosion, town concurred.
I	12	2C	West Center Road	xy4233538473399773	Stormwater/debris clogs up the crossing; may be undersized even though a bridge; have had conversations with state (it could qualify for a small bridge grant)

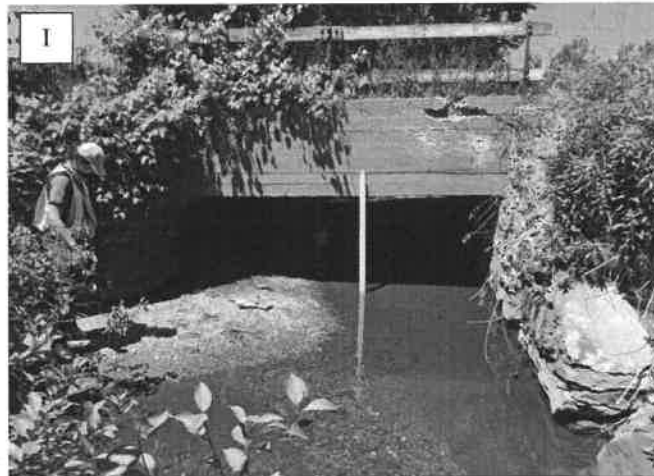
Town Prioritization Workshop Results

October 2020



Town Prioritization Workshop Results

October 2020



Multiple-Ranked Stream Crossings

The following stream crossings were ranked on both of the previous priority lists: risk of failure priority and municipal priority.

Structure #	Map Key	Road	Crossing Code	Risk of Failure Priority	Municipal Priority
25	3B	West Alford Road	xy4230764073408930		

Top-Ranked Stream Crossings, based on Prioritization Rubric

These 10 stream crossings ranked as top priorities based on metrics related to barrier status, flood risk, condition, conservation value, and town priority (see Appendix X for complete Prioritization Rubric). Note that this ranking differs from the above table because habitat quality and conservation value is also considered.

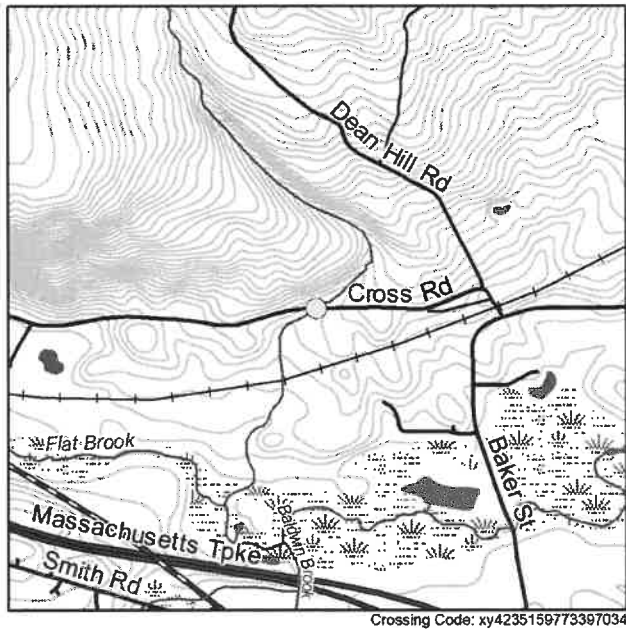
Structure #	Map Key	Road	Crossing Code	Total Score	Rank
10	2C	West Center Road	xy4233177873405779	14	Tier 1 (Ranked 1 of 45)
25	3B	West Alford Road	xy4230764073408930	11	Tier 2 (Ranked 2 of 45)
30	3C	Maple Hill Road	xy4232063473392685	11	Tier 2 (Ranked 2 of 45)
6	1E	Lenox Road	xy4234539073356710	10	Tier 3 (Ranked 4 of 45)
23	3B	Easland Road	xy4229803373416298	10	Tier 3 (Ranked 4 of 45)
22	3B	Wilson Road	xy4229773273408268	9	Tier 4 (Ranked 6 of 45)
16	2C	Baker Street	xy4234464173390891	7	Tier 5 (Ranked 7 of 45)
15	2C	Smith Road	xy4234225573402368	7	Tier 5 (Ranked 7 of 45)
9	2C	Bailey Lane	xy4232954773400898	7	Tier 5 (Ranked 7 of 45)
13	2C	Woodruff Road	xy4233551873405805	7	Tier 5 (Ranked 7 of 45)

Town-Managed Crossings

Entries are organized geographically by Map Index Key,
beginning with 1A

Road: Cross Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Minor barrier

Aquatic Organism Passage Score: 0.7

Town Comments on Flooding/Condition/Maintenance: Floods over the road (mostly spring thaw and with intense storms), likely undersized. The upstream hydrology has changed (Richmond property owner channeling water off of hay field to dry it out) - more water volume has been diverted and channeled making this a problem culvert (Potential item for Williams River Watershed-based Plan)

Overall Ranking: Tier 6 (Ranked 11 of 45)

LOCATION

Coordinates: 42.351600, -73.397300

Location Description: Crossing located at 148 Cross Road

Date Observed: 2020-06-26

Crossing Code: xy4235159773397034

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Severe

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

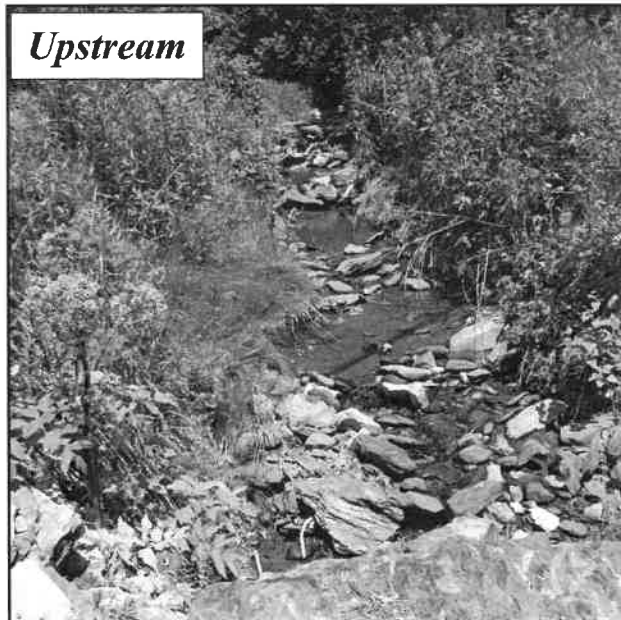
Scour Pool: None

Bankfull Width (feet): 7.0

Water Depth/Velocity Matches Stream: No-Shallower/Yes

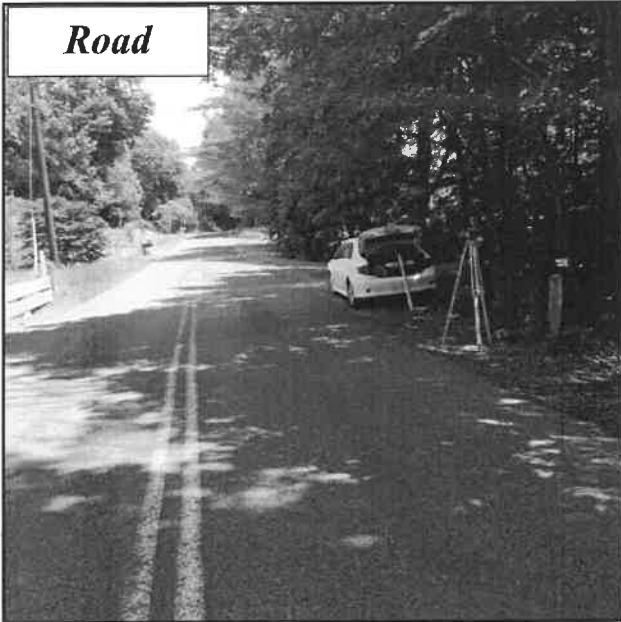
Structure Substrate Type: None

Structure Substrate Matches Stream? Contrasting



Crossing Comments: No data

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 0.64

Road Ownership: Town

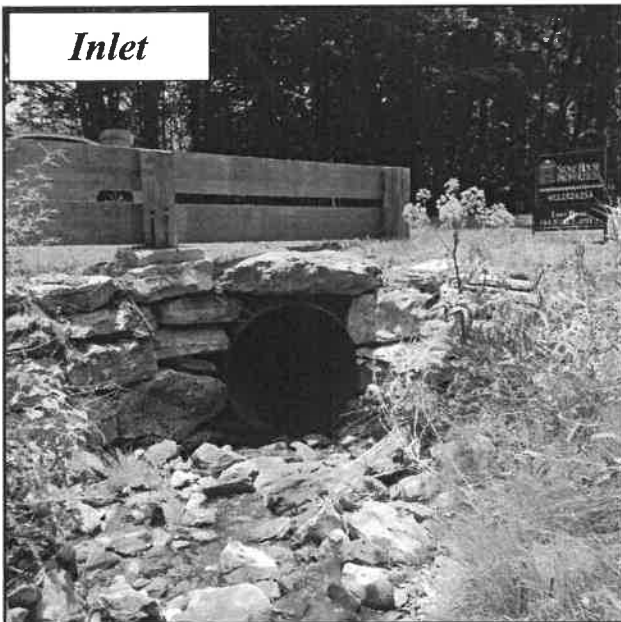
Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	65.19	4.72	1.71	No
5	73.69		2.17	No
10	78.79		2.47	No
25	84.68		2.85	No
50	88.69		3.12	No
100	92.43		3.38	No

STRUCTURE 1 OF 1

Material: Metal
Length (feet): 42
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): None
Slope (%): 2
Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Round Culvert/Headwall and Wingwalls

Inlet Drop/Grade: At Stream Grade

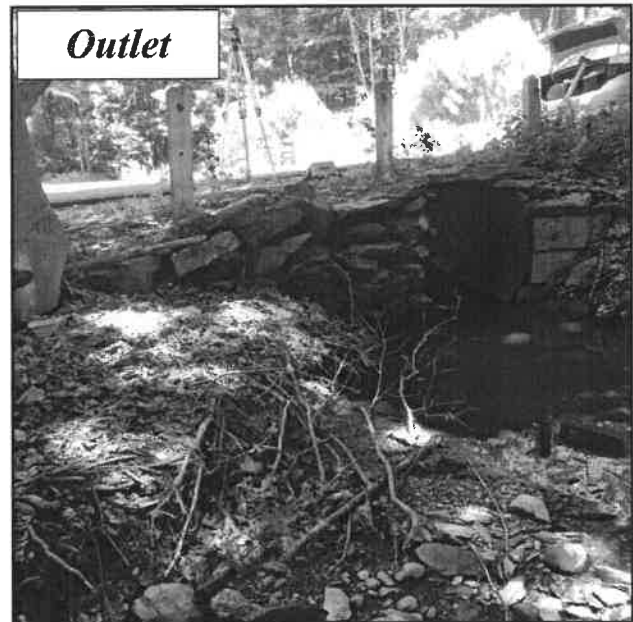
Dimensions:

Width: 3.2, Height: 3.6

Substrate/Water Width: 1

Water Depth: 0.1

Outlet



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.1

Dimensions:

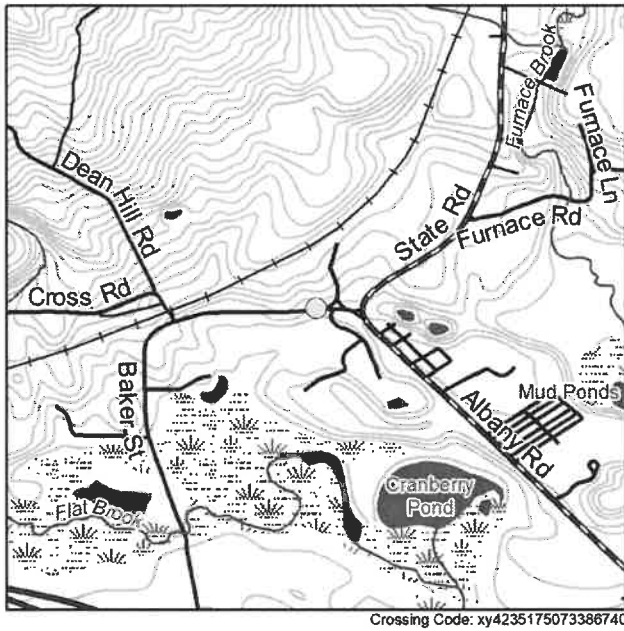
Width: 4.0, Height: 4.0

Substrate/Water Width: 2.2

Water Depth: 0.30

Road: Baker Street

Stream: Unnamed



RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.351750, -73.386740
Location Description: Just after Baker Street Ex-
tension
Date Observed: 2020-07-24
Crossing Code: xy4235175073386740

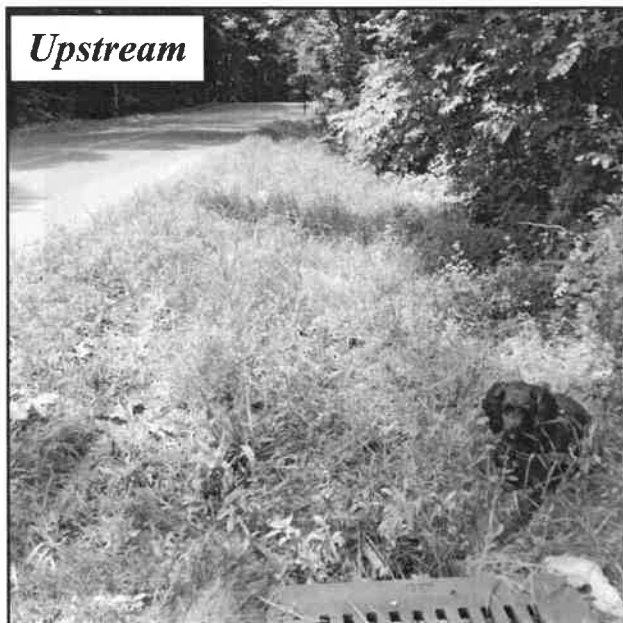
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Partially Inaccessible
Number of structures/cells: 1
Condition: OK
Constriction: Unknown
Alignment: Flow-Aligned
Internal Features/Structures: None

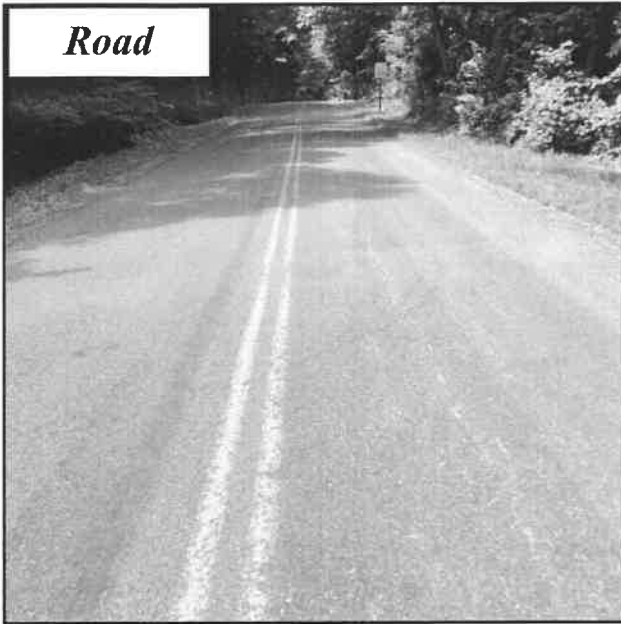
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 7.0
Water Depth/Velocity Matches Stream: Dry/Dry
Structure Substrate Type: None
Structure Substrate Matches Stream? None



Crossing Comments: Inlet is a box with a drop inside to a plastic pipe that is inaccessible.

Road



ROAD

Road Type: Paved

Road Fill Height (feet): No data

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	15.67	No data		
5	17.13			
10	17.96			
25	18.88			
50	19.49			
100	20.04			

STRUCTURE 1 OF 1

Material: Plastic

Length (feet): No data

Dry Passage/Height: No

Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Round Culvert/Projecting

Inlet Drop/Grade: Inlet Drop

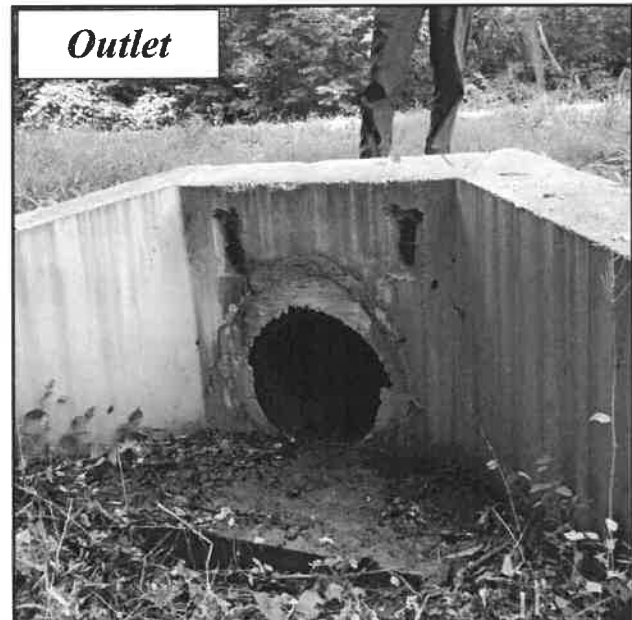
Dimensions:

Width: No data, Height: No data

Substrate/Water Width: No data

Water Depth: No data

Outlet



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

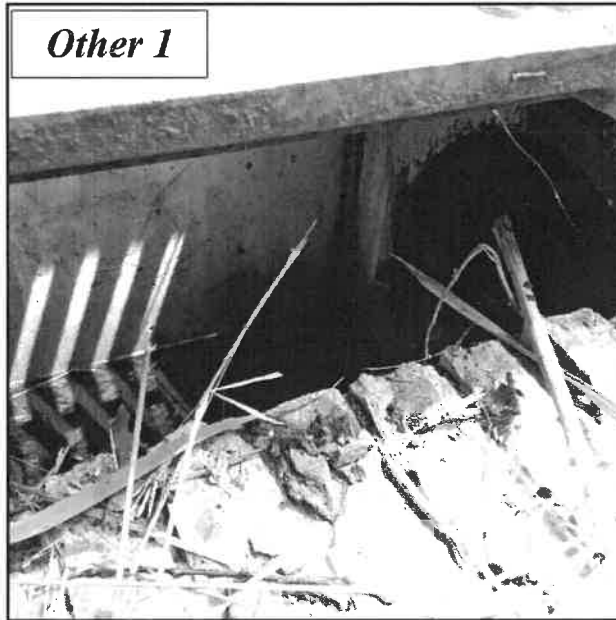
Width: 1.5, Height: 1.5

Substrate/Water Width: 0.0

Water Depth: 0.00

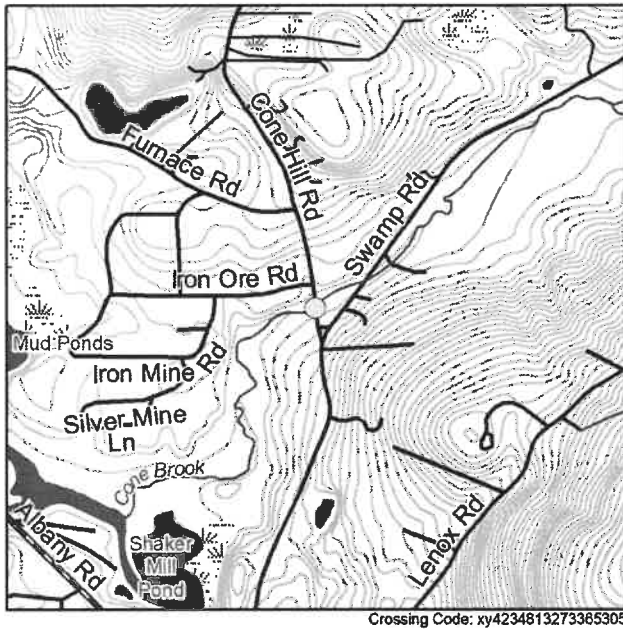
ADDITIONAL PHOTO

Other 1



Road: Cone Hill Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Insignificant barrier
Aquatic Organism Passage Score: 0.95
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Not ranked

LOCATION

Coordinates: 42.348030, -73.365300
Location Description: About 100 feet north of
the intersection of Swamp Road and Cone Hill
Road
Date Observed: 2020-06-26
Crossing Code: xy4234813273365305

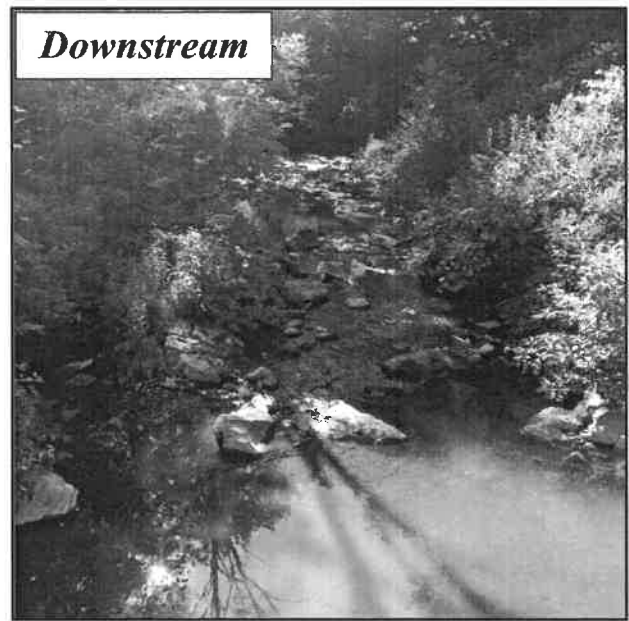
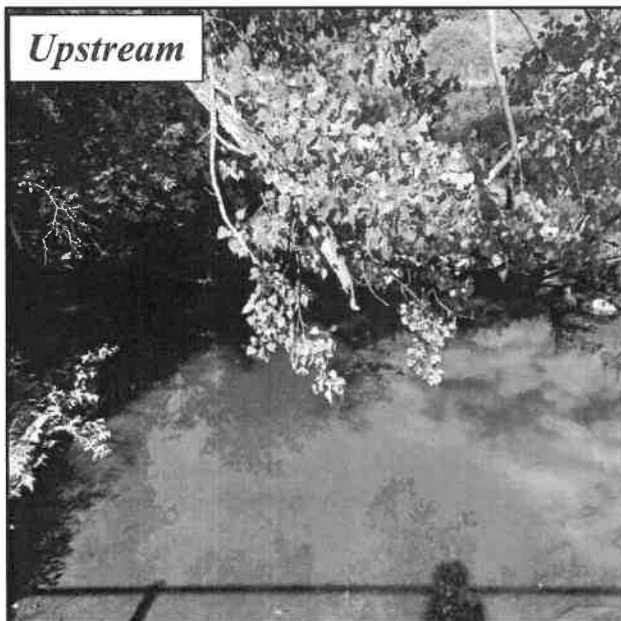
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Bridge
Number of structures/cells: 1
Condition: OK
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

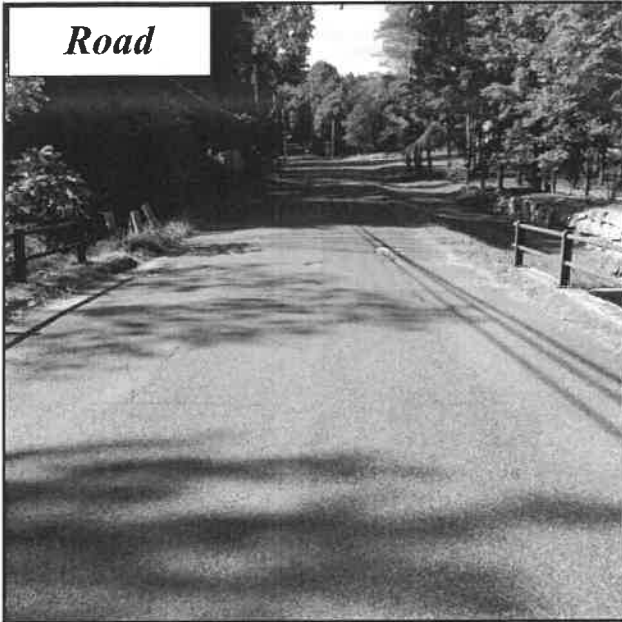
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 35.0
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: Silt
Structure Substrate Matches Stream? Comparable



Crossing Comments: No data

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 0

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	818.71	No data		
5	916.4			
10	978.34			
25	1052.41			
50	1104.65			
100	1154.91			

STRUCTURE 1 OF 1

Material: Concrete

Length (feet): 24

Dry Passage/Height: No

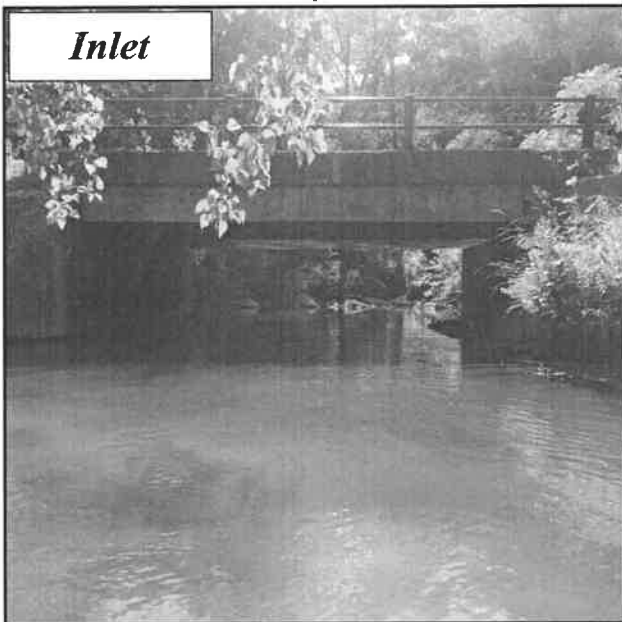
Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Box/Bridge with Abutments/
Headwall and Wingwalls

Inlet Drop/Grade: At Stream Grade

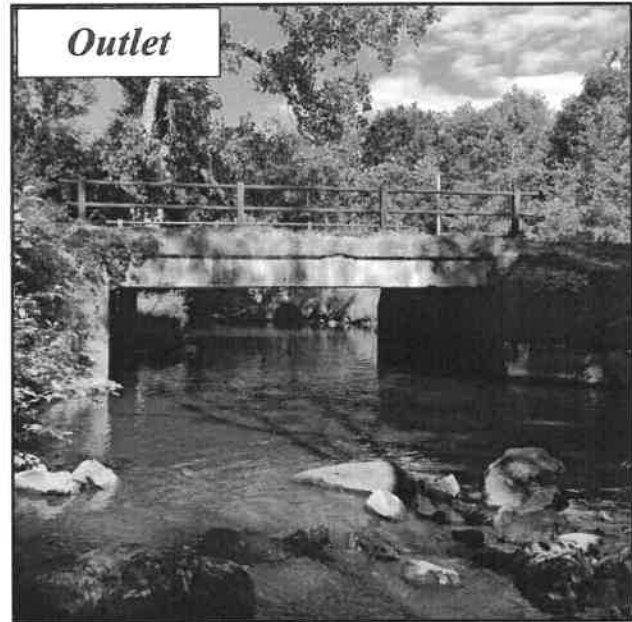
Dimensions:

Width: 20, Height: 6.2

Substrate/Water Width: 18

Water Depth: 1.5

Outlet



OUTLET

Outlet Shape: Box/Bridge with Abutments

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

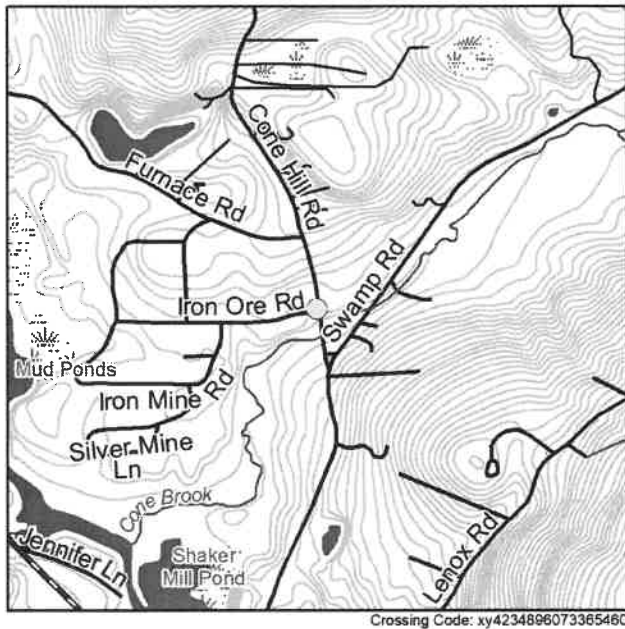
Width: 20.0, Height: 6.2

Substrate/Water Width: 18.0

Water Depth: 1.00

Road: Iron Ore Road

Stream: Unnamed



RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.348960, -73.365460
Location Description: At the intersection of
Cone Hill Road and Iron Ore Road
Date Observed: 2020-07-24
Crossing Code: xy4234896073365460

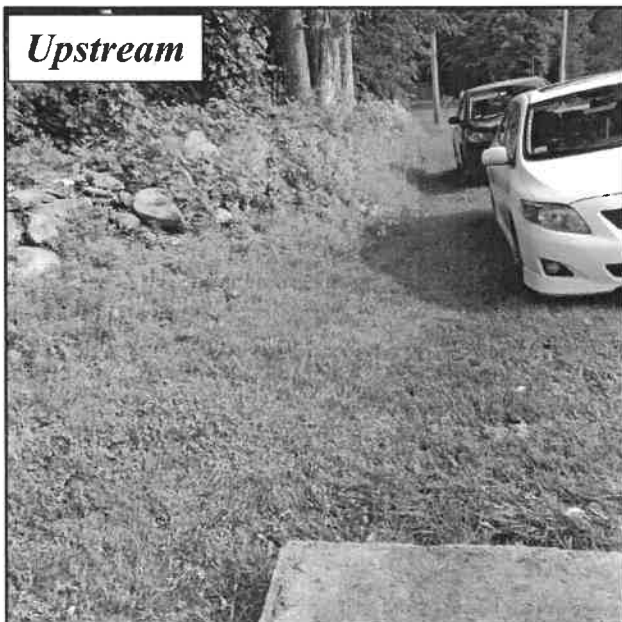
STREAM AND CROSSING

CROSSING CHARACTERISTICS

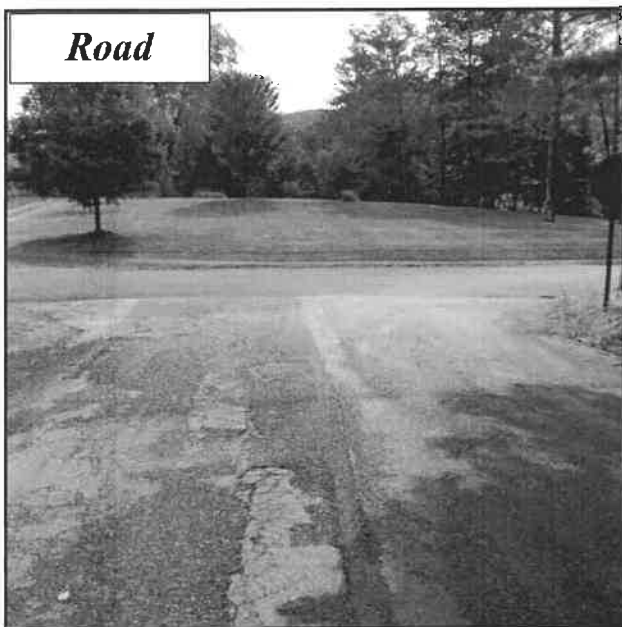
Crossing Type: Partially Inaccessible
Number of structures/cells: 1
Condition: Unknown
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 5.0
Water Depth/Velocity Matches Stream: Dry/Dry
Structure Substrate Type: Silt
Structure Substrate Matches Stream? Contrasting



Crossing Comments: No data

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): No data

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	818.03	No data		
5	915.62			
10	977.5			
25	1051.47			
50	1103.66			
100	1153.86			

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 56.8

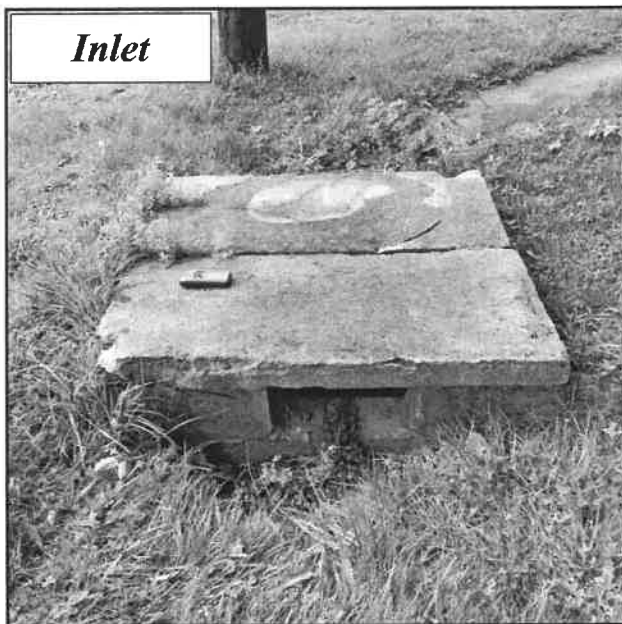
Dry Passage/Height: No

Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: Inlet opening is inaccessible due to concrete structure surrounding inlet. Water flows into concrete structure from the top in two directions.

Inlet**INLET**

Inlet Shape/Type: /

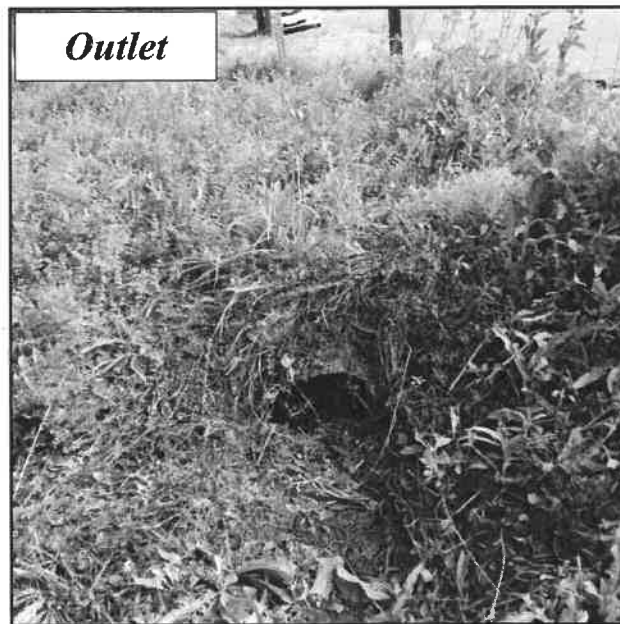
Inlet Drop/Grade: Unknown

Dimensions:

Width: No data, Height: No data

Substrate/Water Width: No data

Water Depth: No data

Outlet**OUTLET**

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 1.3, Height: 0.8

Substrate/Water Width: 1.3

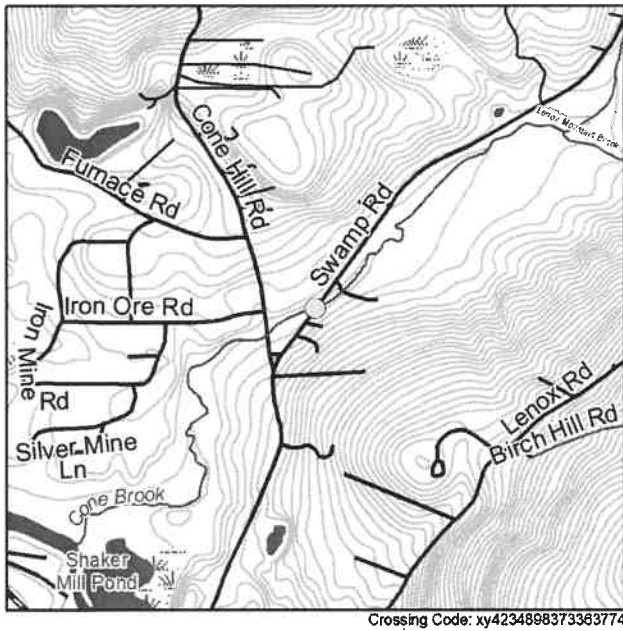
Water Depth: 0.00

ADDITIONAL PHOTO



Road: Swamp Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Insignificant barrier
Aquatic Organism Passage Score: 0.81
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Not ranked

LOCATION

Coordinates: 42.348983, -73.363774
Location Description: Bridge next to 72 Swamp
Road
Date Observed: 2020-07-16
Crossing Code: xy4234898373363774

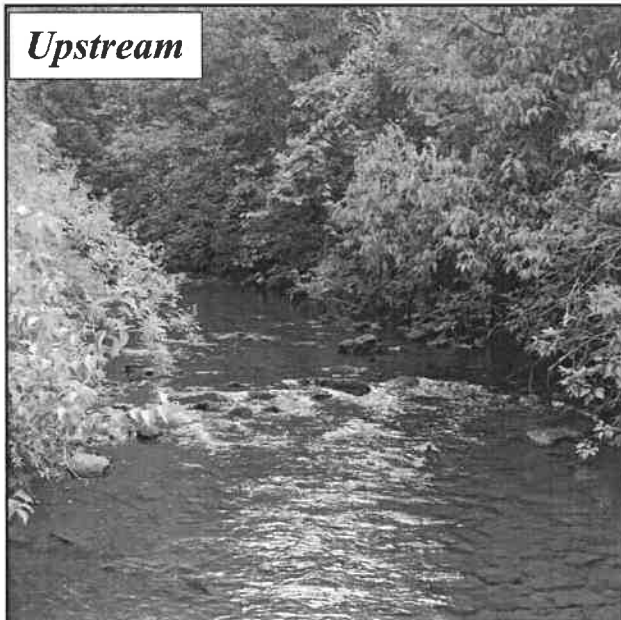
STREAM AND CROSSING

CROSSING CHARACTERISTICS

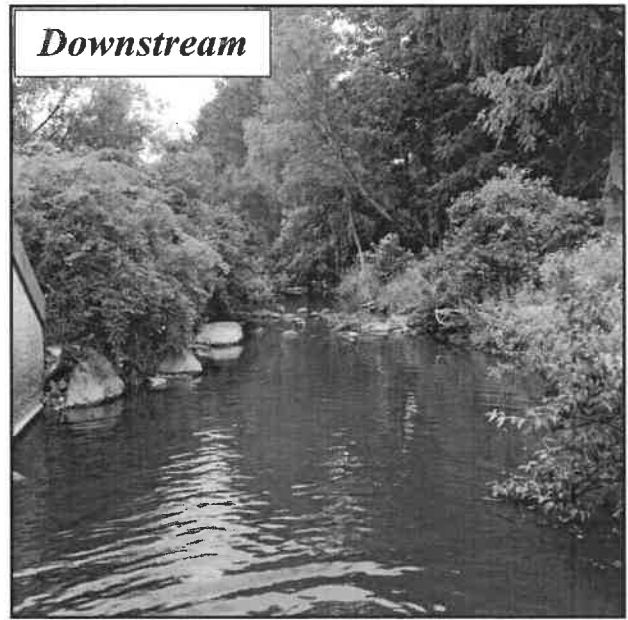
Crossing Type: Bridge
Number of structures/cells: 1
Condition: OK
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 25.0
Water Depth/Velocity Matches Stream: No-
Shallower/Yes
Structure Substrate Type: Silt
Structure Substrate Matches Stream? Contrasting



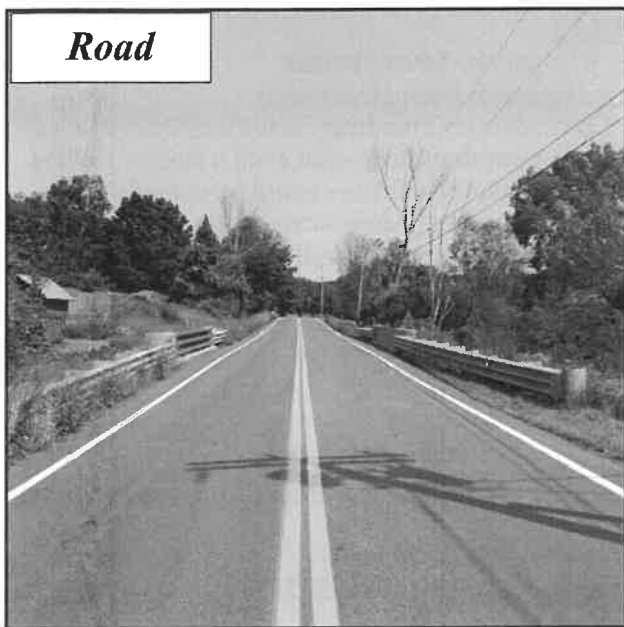
Upstream



Downstream

Crossing Comments: No data

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 0

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	816.22	No data		
5	913.56			
10	975.27			
25	1049.04			
50	1101.08			
100	1151.14			

STRUCTURE 1 OF 1

Material: Concrete

Length (feet): 45.4

Dry Passage/Height: No

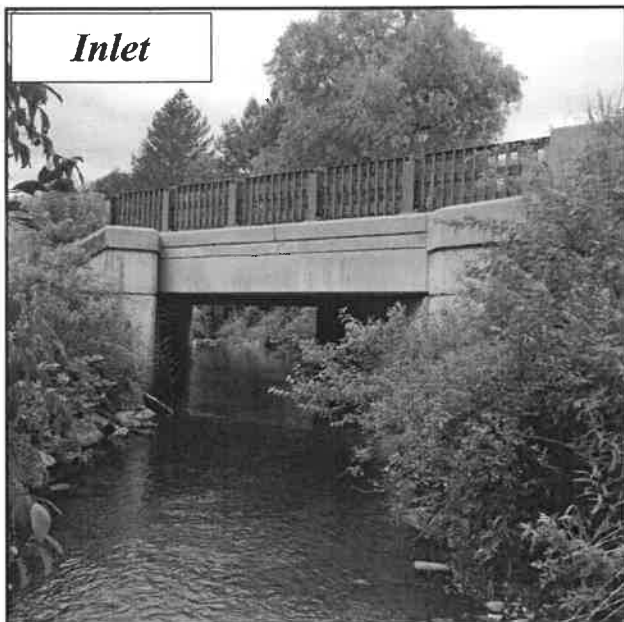
Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): 0

Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Box/Bridge with Abutments/Headwall and Wingwalls

Inlet Drop/Grade: At Stream Grade

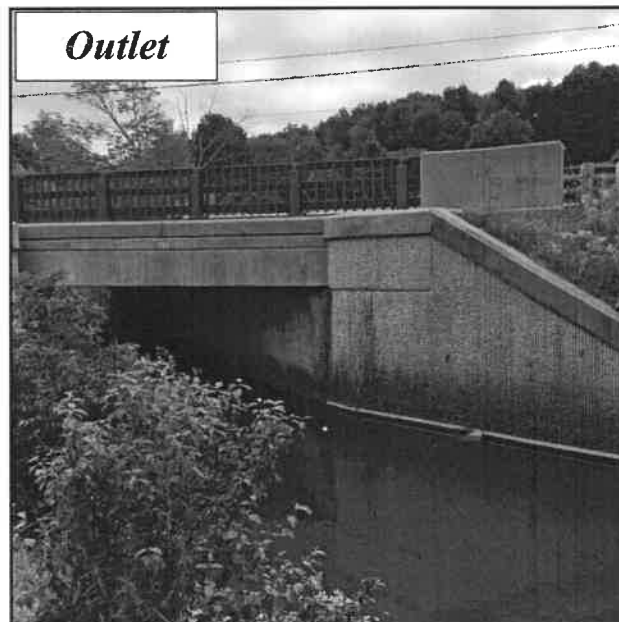
Dimensions:

Width: 13, Height: 6.8

Substrate/Water Width: 13

Water Depth: 0.3

Outlet



OUTLET

Outlet Shape: Box/Bridge with Abutments

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

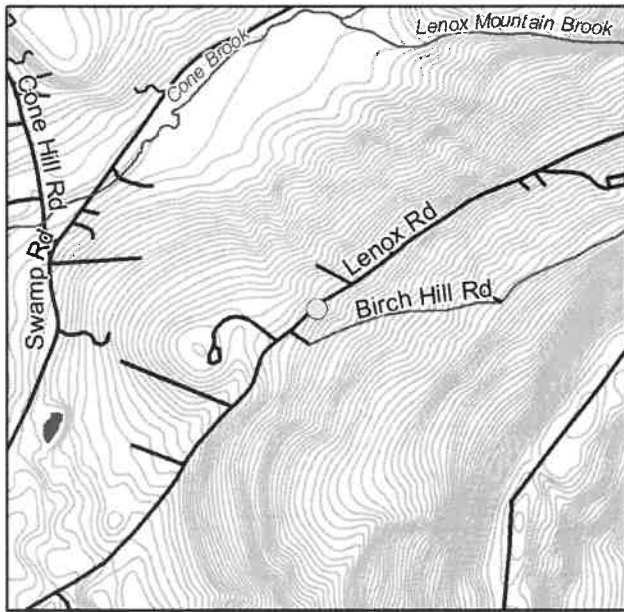
Width: 13.0, Height: 6.7

Substrate/Water Width: 13.0

Water Depth: 3.00

Road: Lenox Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Severe barrier

Aquatic Organism Passage Score: 0

Town Comments on Flooding/Condition/Maintenance: This is an intermittent flow - not even a stream - it just occurs during intense storms - could be considered stormwater. Crossing is on a steep slope - Development higher up the mountain has resulted in increased volume being channeled. Interns documented severe erosion - and the town concurred.

Overall Ranking: Tier 3 (Ranked 4 of 45)

LOCATION

Coordinates: 42.345390, -73.356710

Location Description: 20 feet from the driveway with the sign 73 Cartun

Date Observed: 2020-08-06

Crossing Code: xy4234539073356710

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Moderate

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None

Bankfull Width (feet): 20.0

Water Depth/Velocity Matches Stream: Dry/Dry

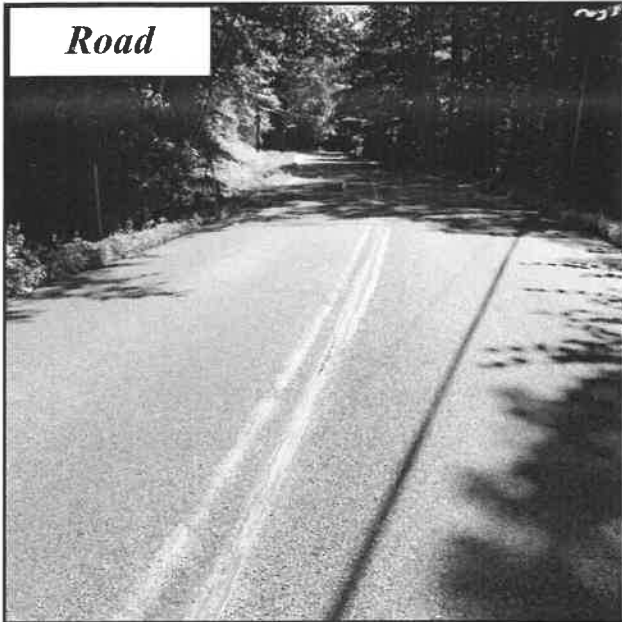
Structure Substrate Type: None

Structure Substrate Matches Stream? None



Crossing Comments: No data

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 1.9

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	8.78	6.2	0.44	No
5	9.81		0.5	No
10	10.43		0.54	No
25	11.13		0.59	No
50	11.61		0.63	No
100	12.06		0.66	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 55

Dry Passage/Height: Yes (4.3)

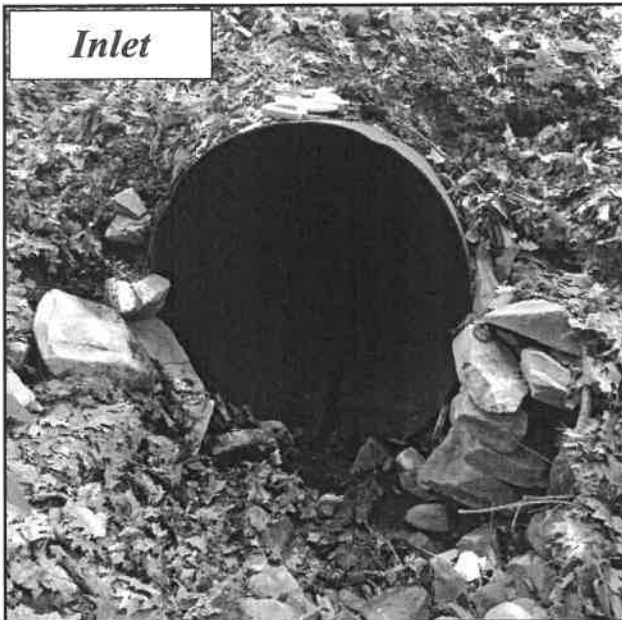
Outlet Armoring: None

Physical Barrier(s) (Severity): Dry (Moderate)

Slope (%): 6

Structure Comments: Pipe is dry because water goes under the pipe.

Inlet



INLET

Inlet Shape/Type: Pipe Arch/Elliptical Culvert/
Projecting

Inlet Drop/Grade: Perched

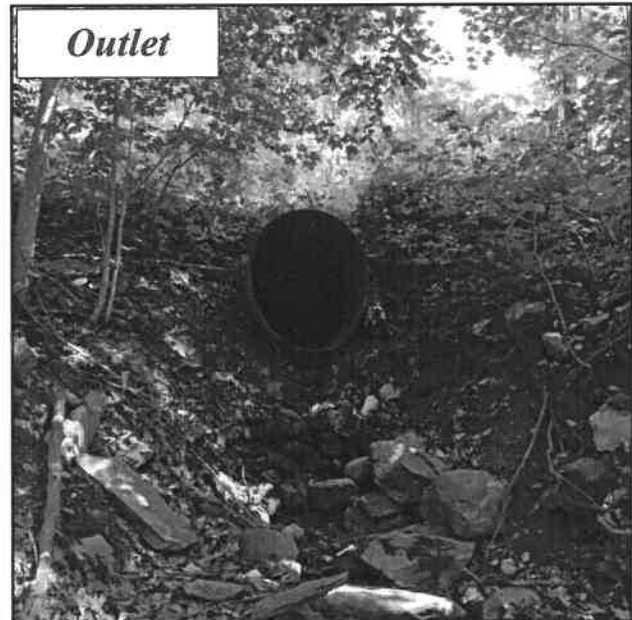
Dimensions:

Width: 3.9, Height: 4.3

Substrate/Water Width: 0

Water Depth: 0

Outlet



OUTLET

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: Free Fall Onto Cascade

Drop to Stream Surface/Bottom: 0.0/4.5

Dimensions:

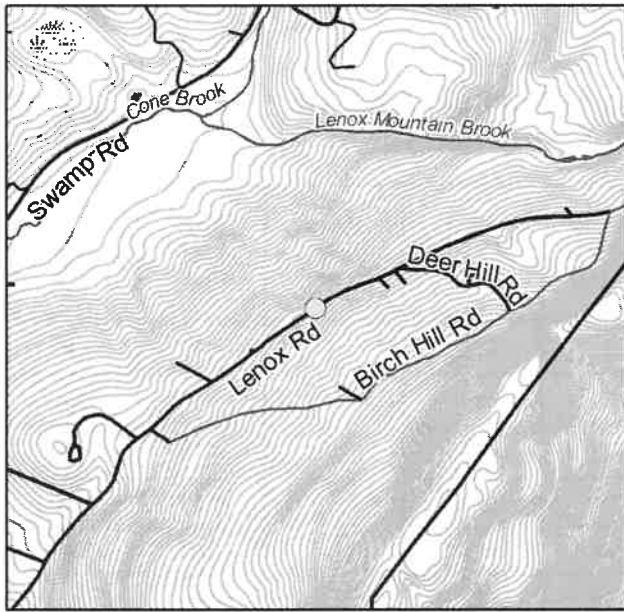
Width: 3.5, Height: 4.3

Substrate/Water Width: 0.0

Water Depth: 0.00

Road: Lenox Road

Stream: Unnamed



Crossing Code: xy4234850073352330

RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 10 (Ranked 25 of 45)

LOCATION

Coordinates: 42.348500, -73.352330
Location Description: Lenox Road north of tele-
phone pole 23 MECO 28
Date Observed: 2020-08-06
Crossing Code: xy4234850073352330

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Partially Inaccessible
Number of structures/cells: 1
Condition: OK
Constriction: Severe
Alignment: Skewed ($>45^\circ$)
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 8.0
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: None
Structure Substrate Matches Stream? None

Upstream

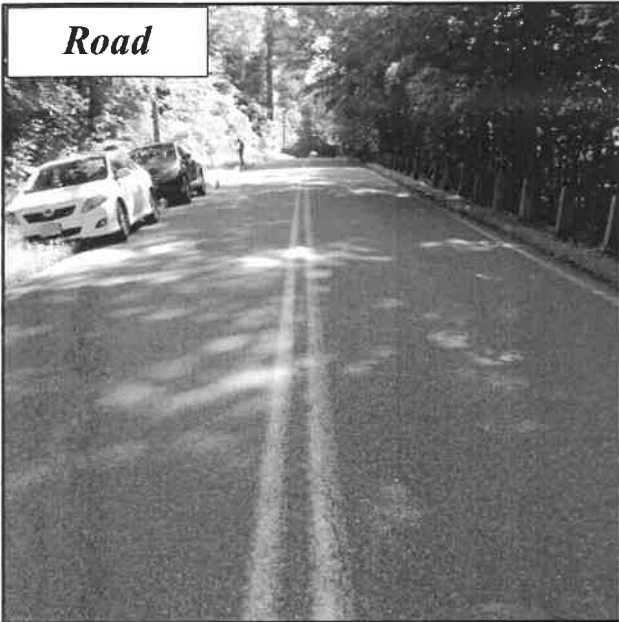


Downstream



Crossing Comments: Inlet inaccessible due to concrete slab over top. Other photo is a close-up of the outlet. May be for stormwater.

Road



ROAD

Road Type: Paved

Road Fill Height (feet): No data

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	12.49	No data		
5	13.87			
10	14.71			
25	15.7			
50	16.38			
100	17.02			

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 55

Dry Passage/Height: No

Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: /

Inlet Drop/Grade:

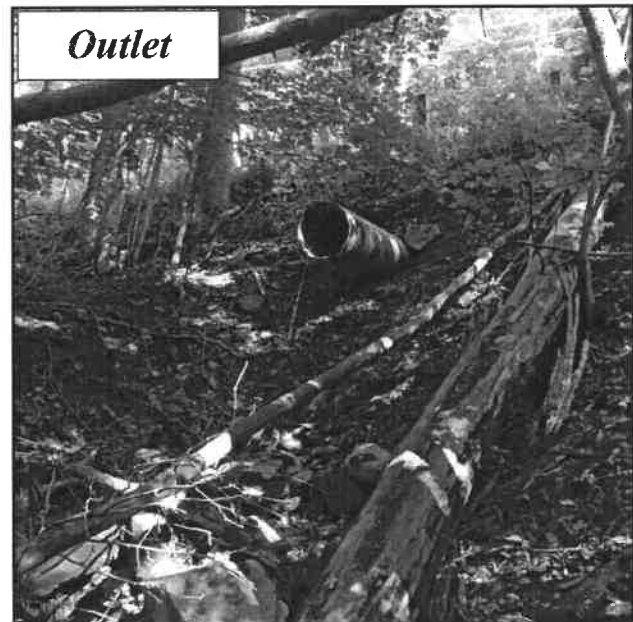
Dimensions:

Width: No data, Height: No data

Substrate/Water Width: No data

Water Depth: No data

Outlet



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: Free Fall Onto Cascade

Drop to Stream Surface/Bottom: 3.5/12.0

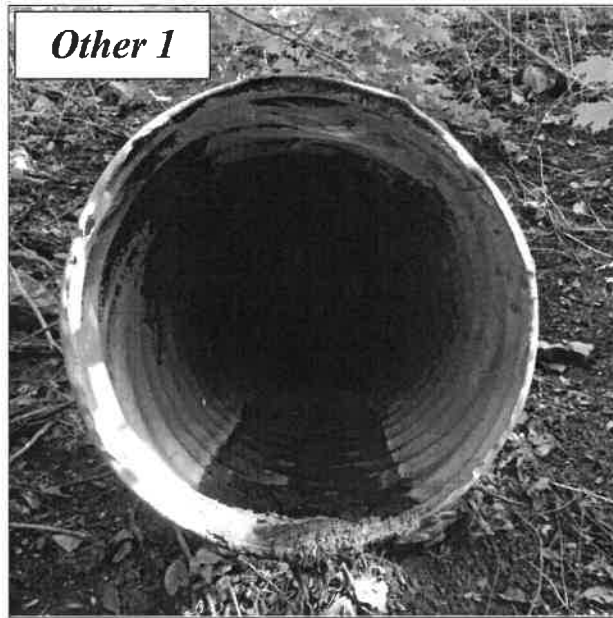
Dimensions:

Width: 1.5, Height: 1.5

Substrate/Water Width: 0.1

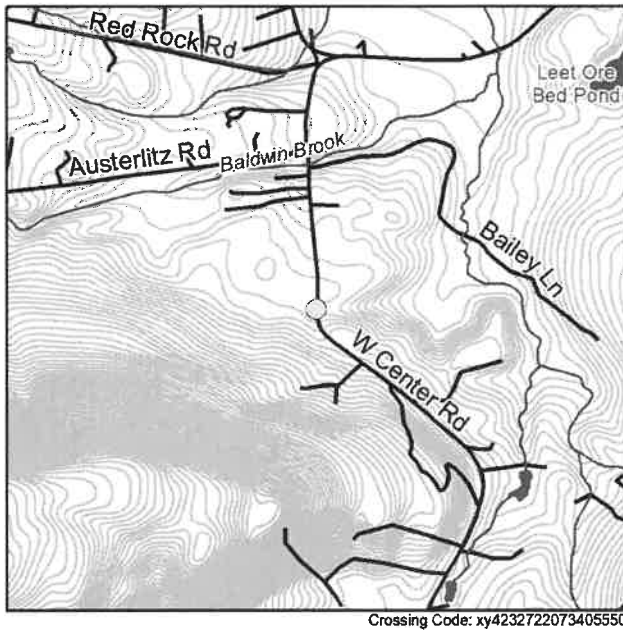
Water Depth: 0.10

ADDITIONAL PHOTO



Road: West Center Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Minor barrier
Aquatic Organism Passage Score: 0.68
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.327220, -73.405550
Location Description: Just north of 58 West Center Road
Date Observed: 2020-06-17
Crossing Code: xy4232722073405550

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 5.0
Water Depth/Velocity Matches Stream: No-
Shallower/Yes
Structure Substrate Type: Sand
Structure Substrate Matches Stream? None



Crossing Comments: No data

Road

ROAD

Road Type: Paved

Road Fill Height (feet): 2.54

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	8.24	5.64	0.81	No
5	8.95		0.81	No
10	9.36		0.81	No
25	9.8		0.81	No
50	10.1		0.81	No
100	10.37		0.81	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 40.3

Dry Passage/Height: No

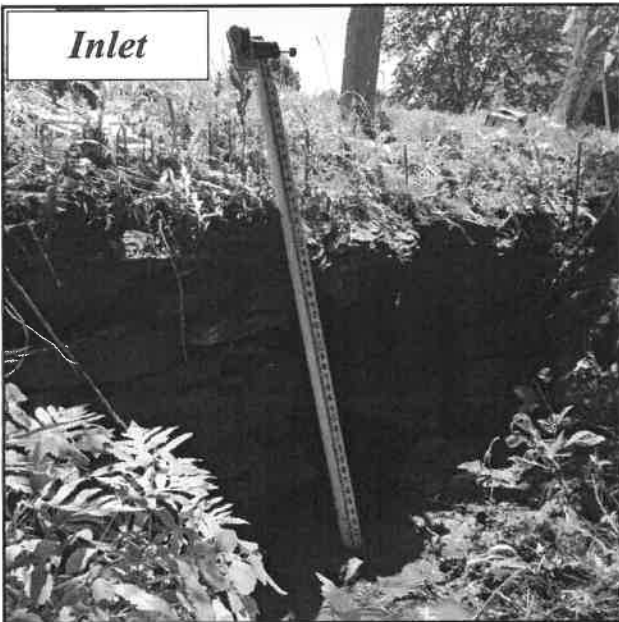
Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): 1

Structure Comments: Rock around culvert is collapsing at the outlet. Sediment in crossing is just built up at outlet end.

Inlet



INLET

Inlet Shape/Type: Pipe Arch/Elliptical Culvert/Wingwalls

Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 3.4, Height: 3.1

Substrate/Water Width: 2.4

Water Depth: 0.4

Outlet



OUTLET

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.3

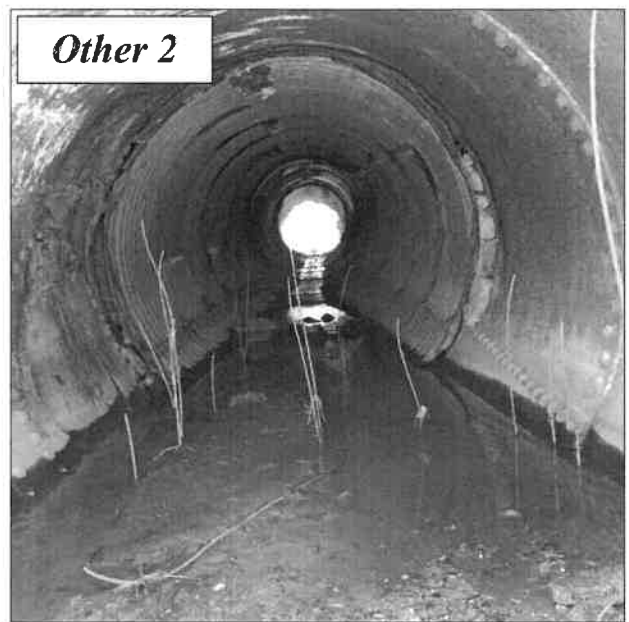
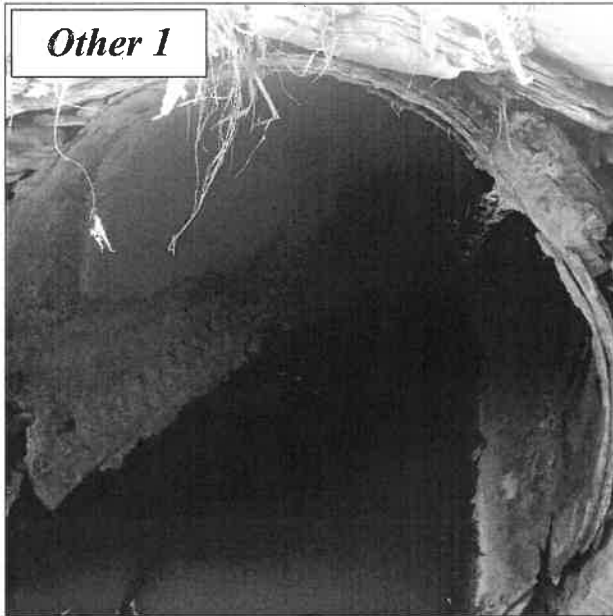
Dimensions:

Width: 3.7, Height: 2.4

Substrate/Water Width: 1.2

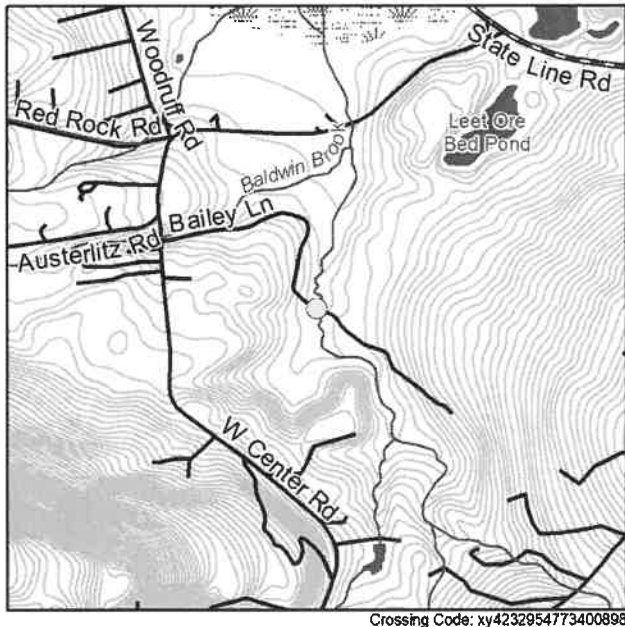
Water Depth: 0.05

ADDITIONAL PHOTOS



Road: Bailey Lane

Stream: Unnamed



RESULTS

Barrier Evaluation: Severe barrier
Aquatic Organism Passage Score: 0.07
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 5 (Ranked 7 of 45)

LOCATION

Coordinates: 42.329560, -73.400940
Location Description: About halfway down Bailey Lane, private road, at the pond with a small dam
Date Observed: 2020-07-09
Crossing Code: xy4232954773400898

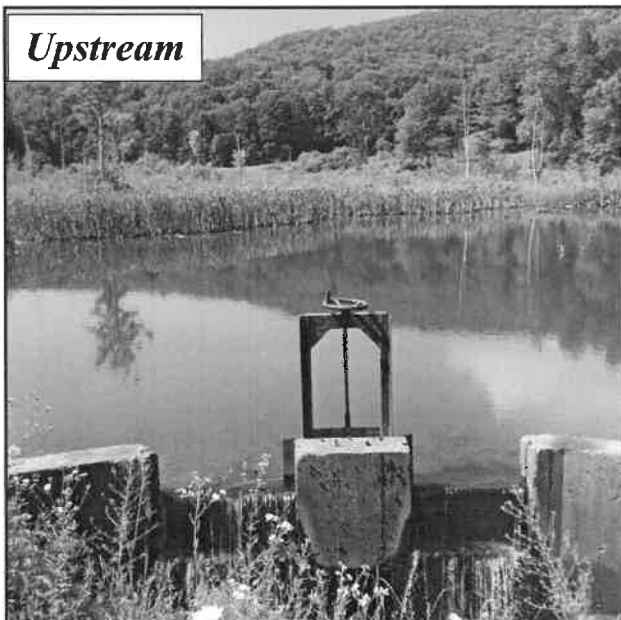
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

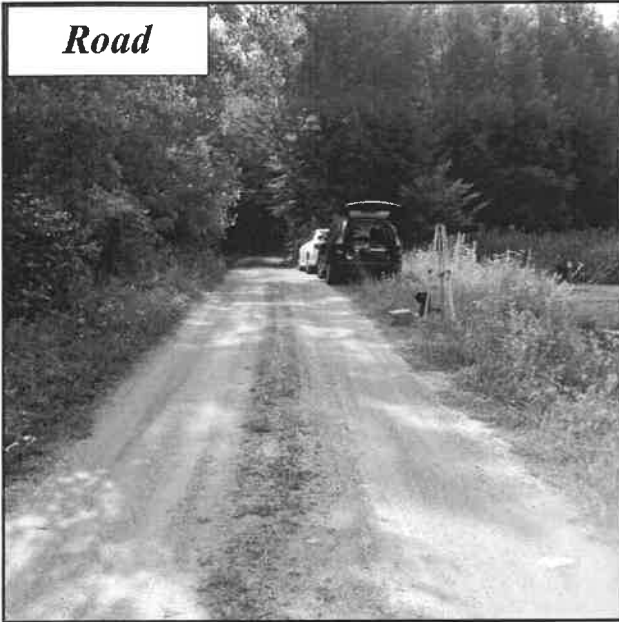
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 100.0
Water Depth/Velocity Matches Stream: No-
Shallower/No-Faster
Structure Substrate Type: None
Structure Substrate Matches Stream? None



Crossing Comments: Note: Man-made dam upstream. Difficult access for inlet photo

Road



ROAD

Road Type: Unpaved
Road Fill Height (feet): 3
Road Ownership: Town

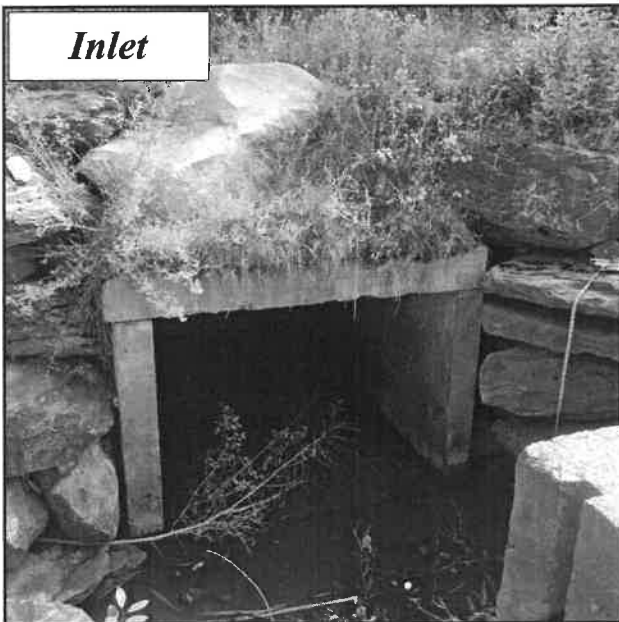
Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	153.21	7.09	3.6	No
5	171.31		3.89	No
10	182.4		4.07	No
25	195.34		4.27	No
50	204.3		4.41	No
100	212.73		4.54	No

STRUCTURE 1 OF 1

Material: Concrete
Length (feet): 30.8
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): None
Slope (%): 1
Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Box Culvert/Wingwalls
Inlet Drop/Grade: At Stream Grade
Dimensions:
Width: 5, Height: 4
Substrate/Water Width: 5
Water Depth: 0.2

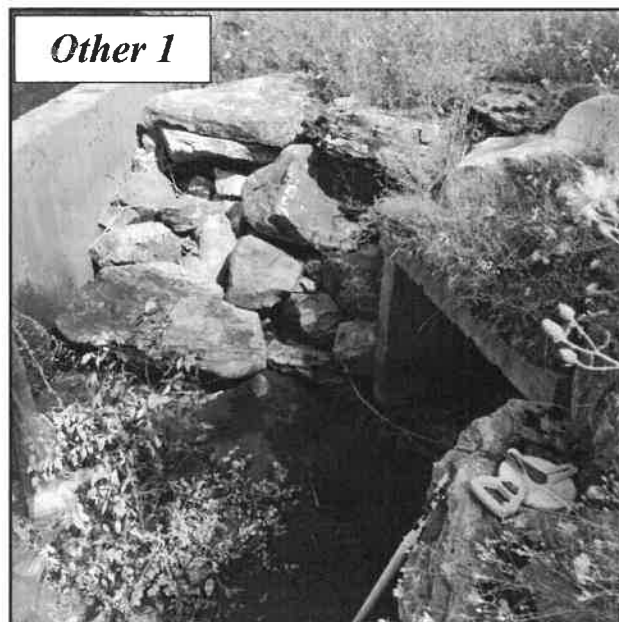
Outlet



OUTLET

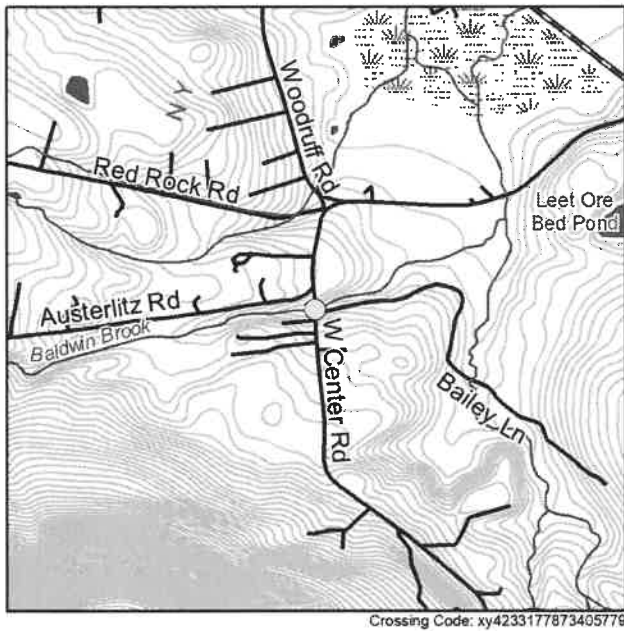
Outlet Shape: Box Culvert
Outlet Drop/Grade: Free Fall Onto Cascade
Drop to Stream Surface/Bottom: 1.6/3.6
Dimensions:
Width: 5.0, Height: 4.0
Substrate/Water Width: 5.0
Water Depth: 0.20

ADDITIONAL PHOTO



Road: West Center Road

Stream: Baldwin Brook



RESULTS

Barrier Evaluation: Moderate barrier
Aquatic Organism Passage Score: 0.5
Town Comments on Flooding/Condition/
Maintenance: Submitted for MA DER Culvert
Replacement Municipal Assistance grant, but
town does not see major issues with this cross-
ing.

Overall Ranking: Tier 1 (Ranked 1 of 45)

LOCATION

Coordinates: 42.331906, -73.405670

Location Description: At Bailey Lane intersec-
tion

Date Observed: 2018-03-28

Crossing Code: xy4233177873405779

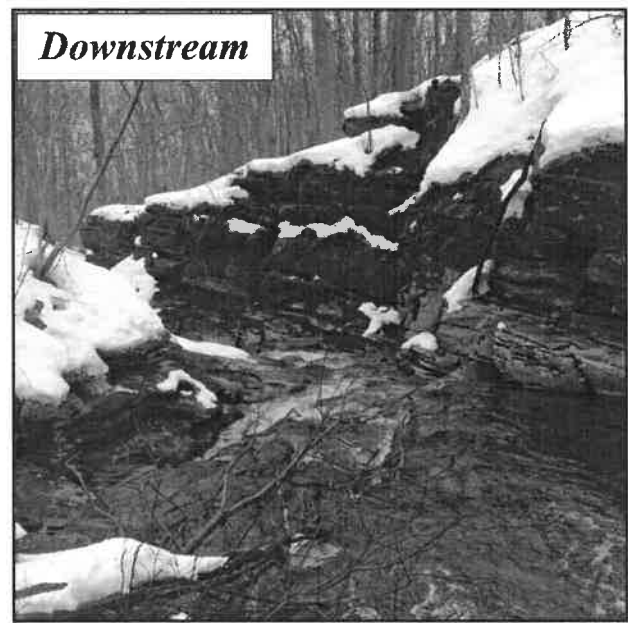
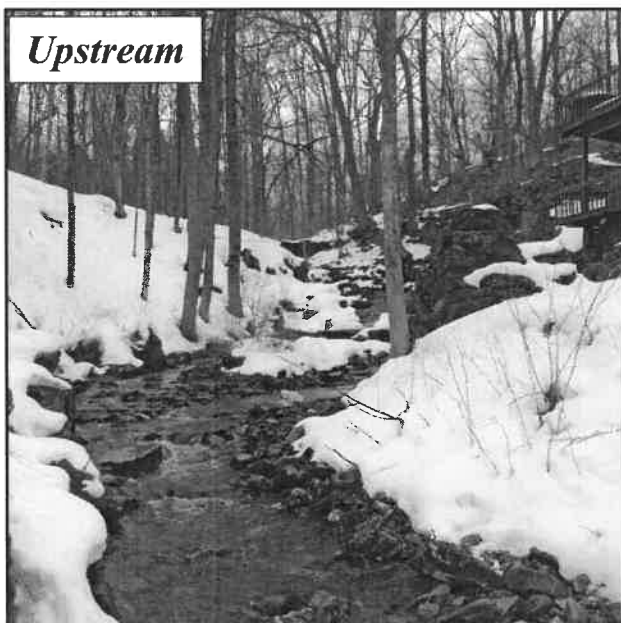
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert
Number of structures/cells: 1
Condition: Poor
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

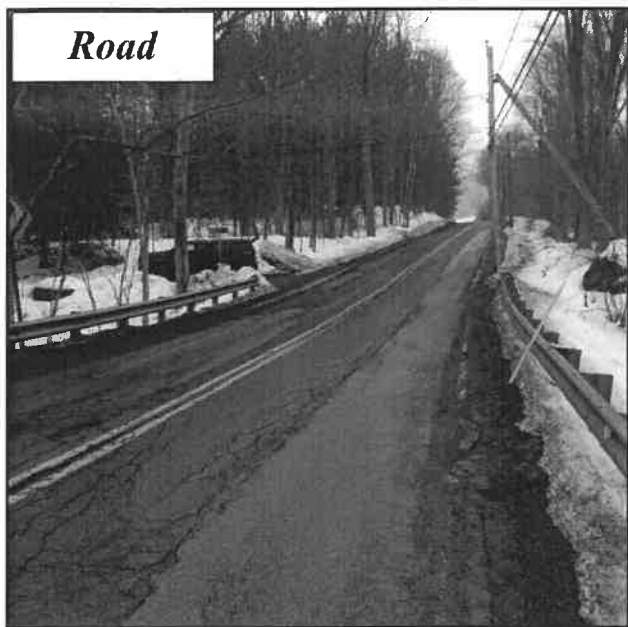
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 0.0
Water Depth/Velocity Matches Stream: No-
Shallower/No-Faster
Structure Substrate Type: None
Structure Substrate Matches Stream? None



Crossing Comments: Bedrock controlled at outlet

Road



ROAD

Road Type: Paved
Road Fill Height (feet): 25
Road Ownership: Town

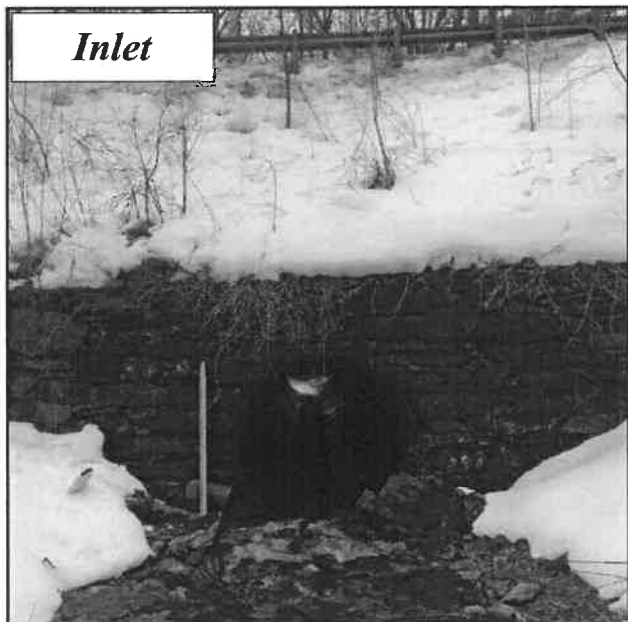
Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	255.33	No data		
5	284.85			
10	302.86			
25	323.83			
50	338.29			
100	351.87			

STRUCTURE 1 OF 1

Material: Combination
Length (feet): 80
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): Deformation (Minor)
Slope (%): No data
Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Round Culvert/Headwall
Inlet Drop/Grade: At Stream Grade
Dimensions:
Width: 6, Height: 6
Substrate/Water Width: 3
Water Depth: 0.2

Outlet

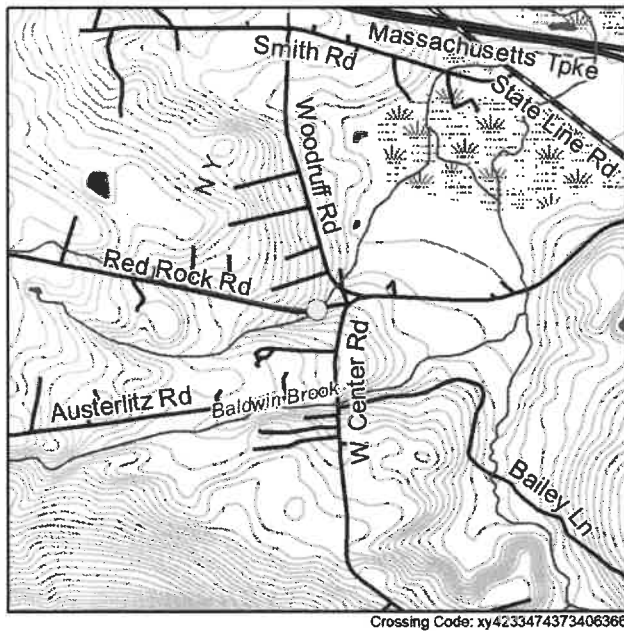


OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: Free Fall
Drop to Stream Surface/Bottom: 0.5/0.7
Dimensions:
Width: 6.0, Height: 6.0
Substrate/Water Width: 3.0
Water Depth: 0.20

Road: Red Rock Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Insignificant barrier

Aquatic Organism Passage Score: 0.83

Town Comments on Flooding/Condition/
Maintenance: No comment

Overall Ranking: Tier 8 (Ranked 18 of 45)

LOCATION

Coordinates: 42.334690, -73.406260

Location Description: West of intersection of
wood rough road and red rock road. Right before
telephone poll 1266 mico1

Date Observed: 2020-06-16

Crossing Code: xy4233474373406366

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Severe

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None

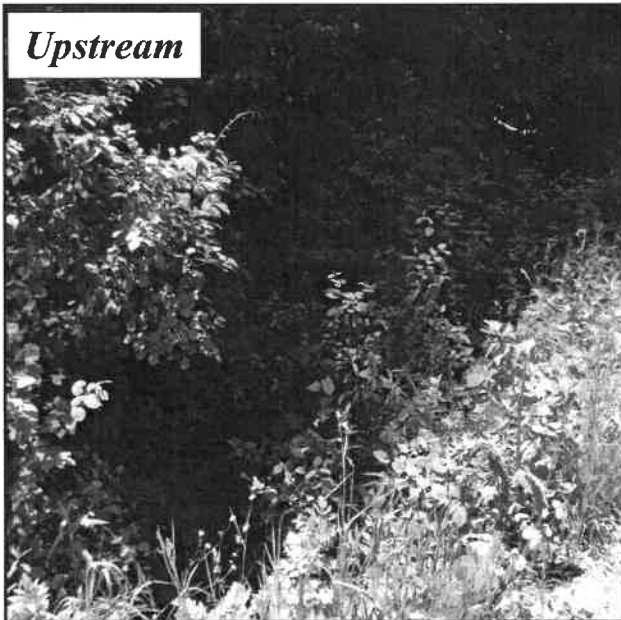
Bankfull Width (feet): 9.0

Water Depth/Velocity Matches Stream: Yes/Yes

Structure Substrate Type: Gravel

Structure Substrate Matches Stream? Compara-
ble

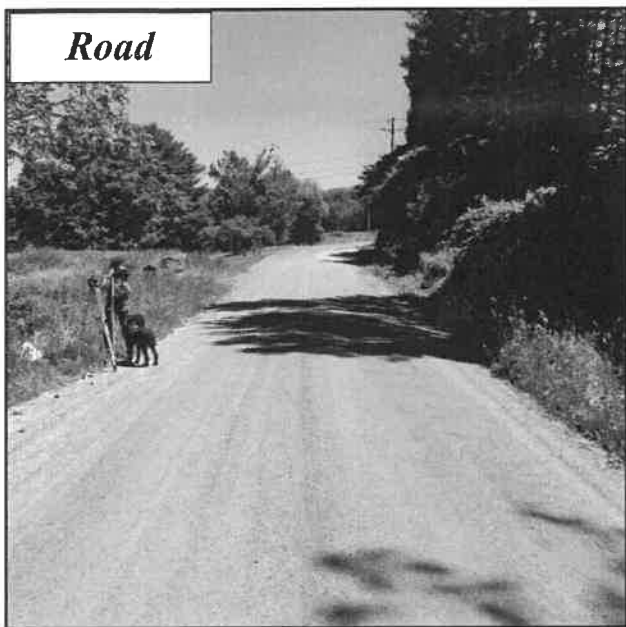
Upstream



Downstream



Crossing Comments: No data

Road**ROAD**

Road Type: Unpaved

Road Fill Height (feet): 2.99

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	23.54	4.99	1.46	No
5	25.47		1.7	No
10	26.56		1.85	No
25	27.77		2.02	No
50	28.57		2.14	No
100	29.29		2.24	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 30

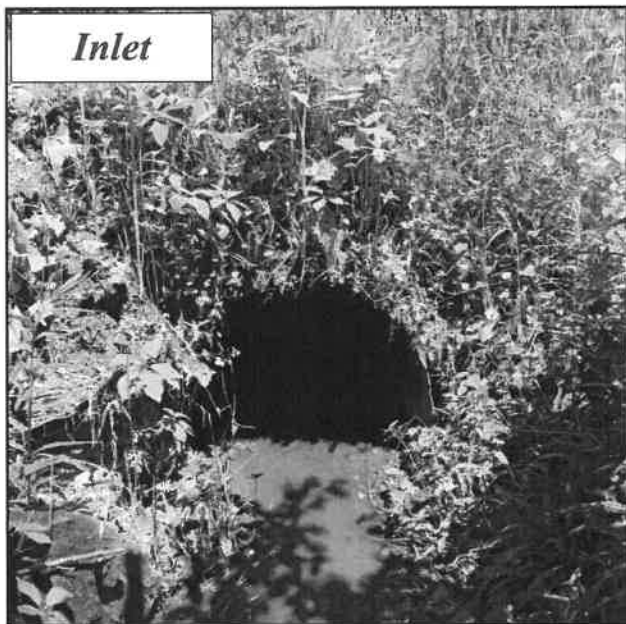
Dry Passage/Height: No

Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: Outlet is deformed caving in vertically

Inlet**INLET**

Inlet Shape/Type: Round Culvert/Headwall

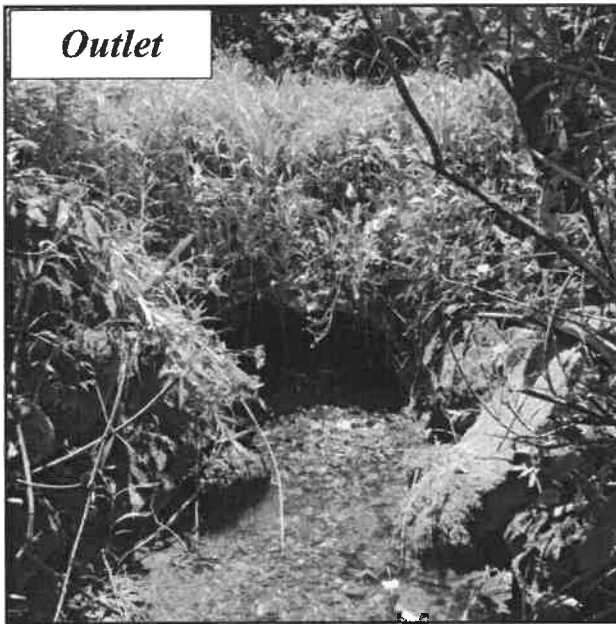
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 2.8, Height: 2.5

Substrate/Water Width: 2.5

Water Depth: 0.3

Outlet**OUTLET**

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

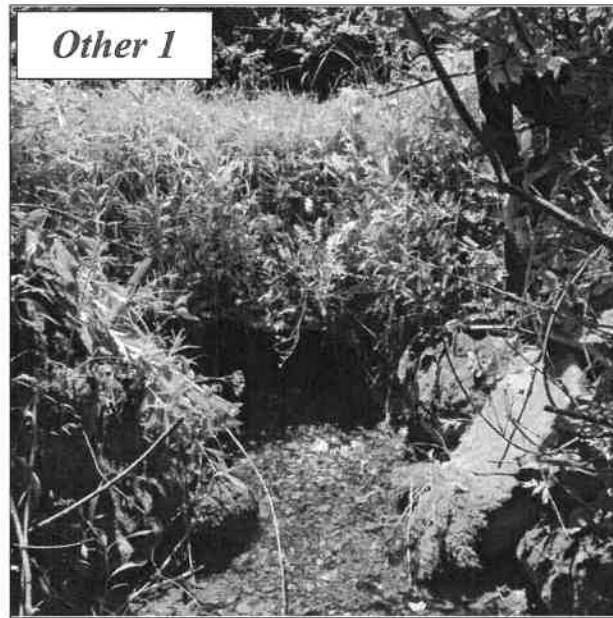
Dimensions:

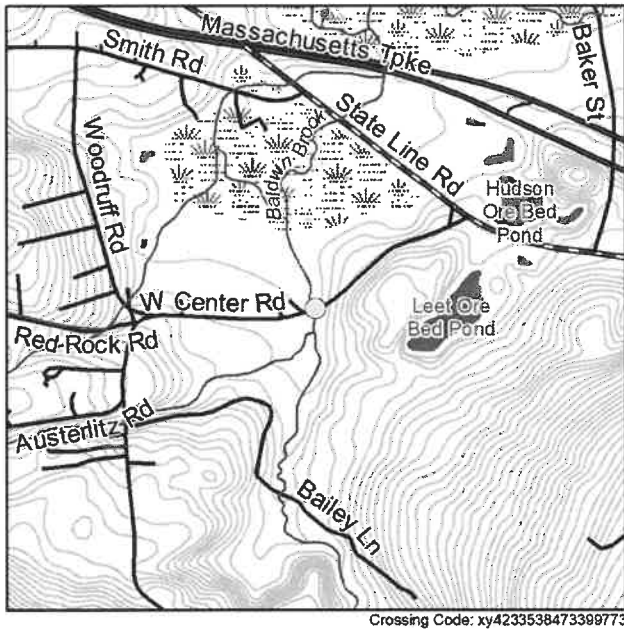
Width: 2.9, Height: 1.6

Substrate/Water Width: 2.9

Water Depth: 0.18

ADDITIONAL PHOTO





RESULTS

Barrier Evaluation: Insignificant barrier
 Aquatic Organism Passage Score: 0.89
 Town Comments on Flooding/Condition/
 Maintenance: Stormwater/debris clogs up the
 crossing so this structure may be undersized.
 Town has had conversations with state - it could
 qualify for a small bridge grant
 Overall Ranking: Not ranked

LOCATION

Coordinates: 42.335430, -73.399610
 Location Description: Next to telephone pole 7
 and vz 6. West of West Center Auto
 Date Observed: 2020-06-17
 Crossing Code: xy4233538473399773

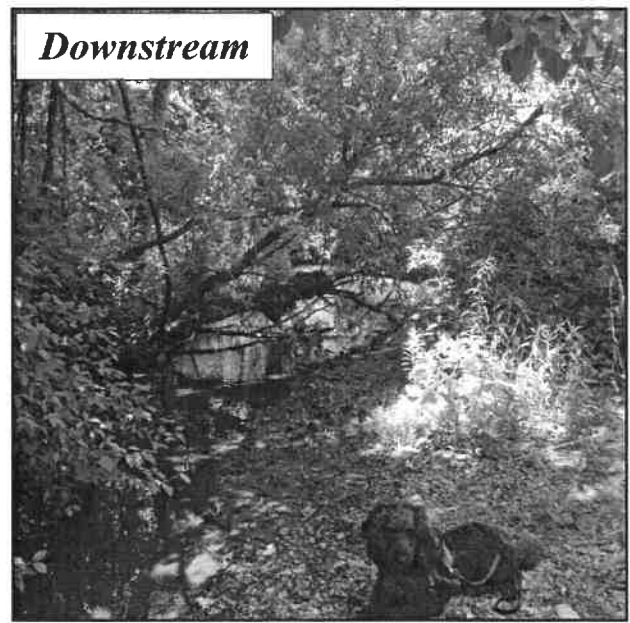
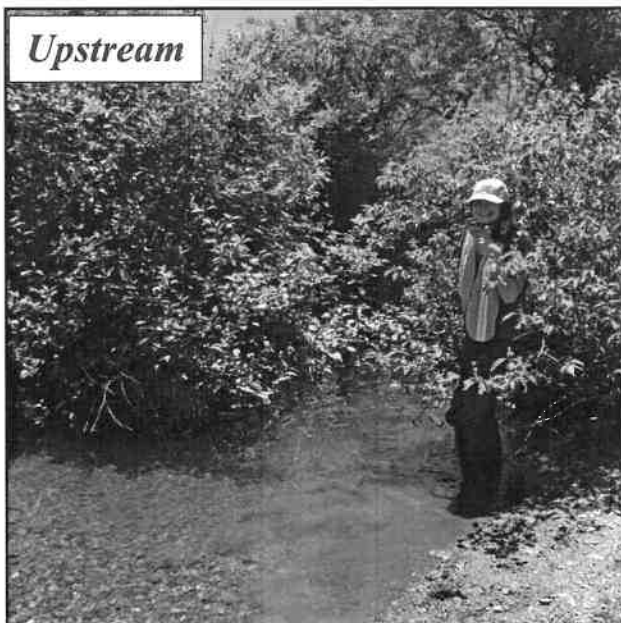
STREAM AND CROSSING

CROSSING CHARACTERISTICS

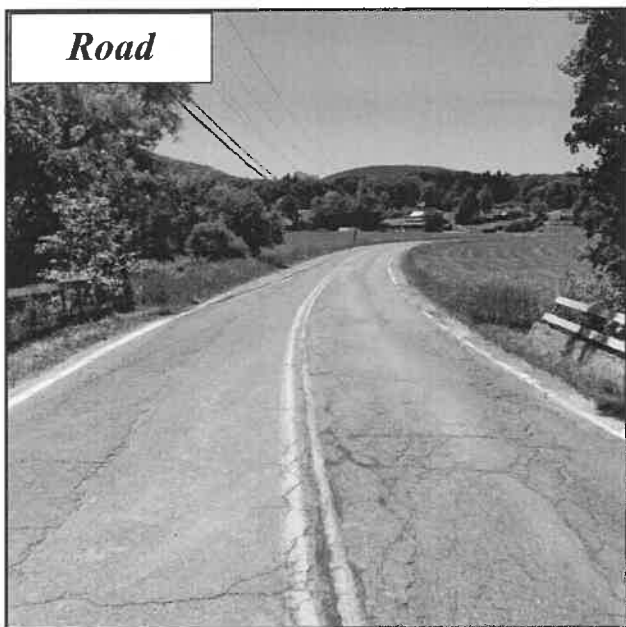
Crossing Type: Bridge
 Number of structures/cells: 1
 Condition: OK
 Constriction: Spans Only Bankfull/Active Chan-
 nel
 Alignment: Flow-Aligned
 Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
 Bankfull Width (feet): 15.0
 Water Depth/Velocity Matches Stream: No-
 Shallower/Yes
 Structure Substrate Type: Gravel
 Structure Substrate Matches Stream? Compara-
 ble



Crossing Comments: No data

Road

ROAD

Road Type: Paved

Road Fill Height (feet): 0

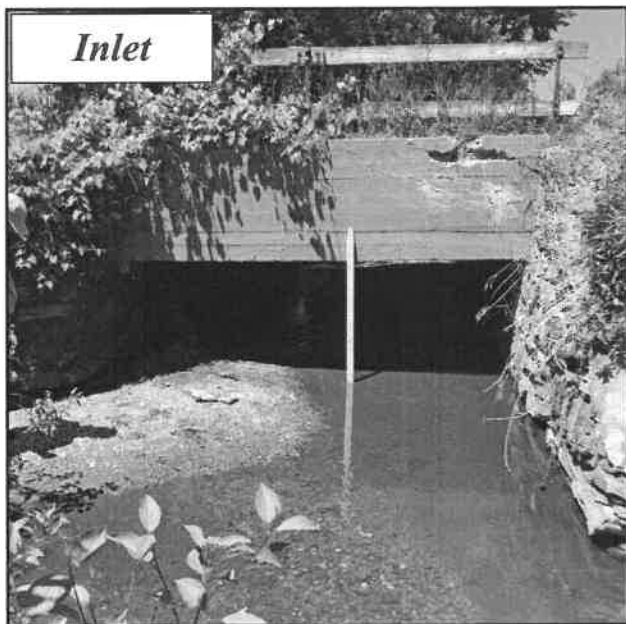
Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	427.33	No Data		
5	478.02			
10	509.04			
25	545.26			
50	570.3			
100	593.86			

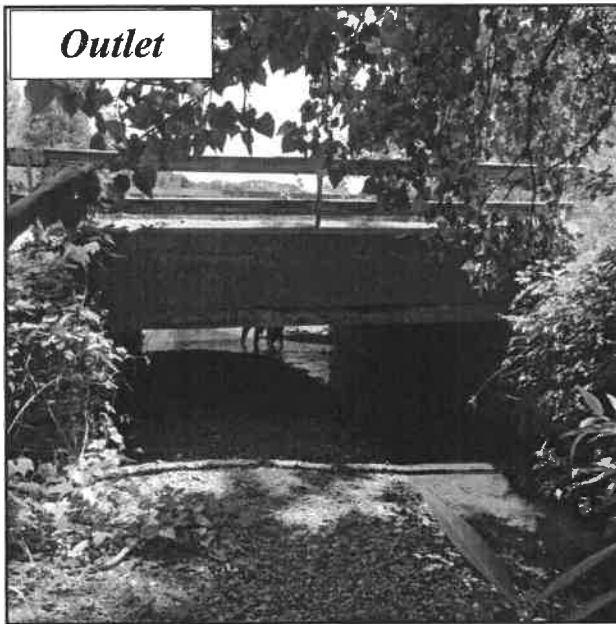
STRUCTURE 1 OF 1

Material: Combination
Length (feet): 28.5
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): None
Slope (%): No data
Structure Comments: Head wall at outlet is falling outward. Bridge made of concrete metal with

Inlet

INLET

Inlet Shape/Type: Box/Bridge with Abutments/
Headwall and Wingwalls
Inlet Drop/Grade: At Stream Grade
Dimensions:
Width: 13.1, Height: 4
Substrate/Water Width: 6.6
Water Depth: 0.55

Outlet

OUTLET

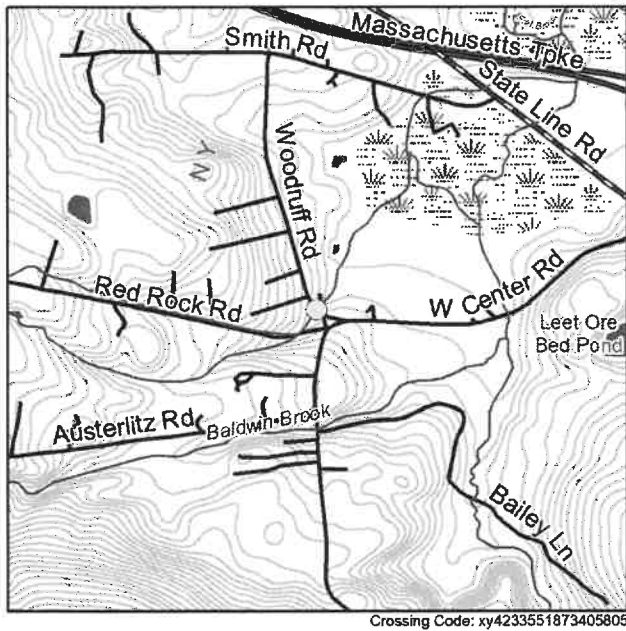
Outlet Shape: Box/Bridge with Abutments
Outlet Drop/Grade: At Stream Grade
Drop to Stream Surface/Bottom: 0.0/0.0
Dimensions:
Width: 13.2, Height: 3.7
Substrate/Water Width: 5.4
Water Depth: 0.30

ADDITIONAL PHOTO



Road: Woodruff Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Significant barrier
Aquatic Organism Passage Score: 0.22
Town Comments on Flooding/Condition/
Maintenance: Not a town priority - crossing has
been worked on recently and improved.
Overall Ranking: Tier 5 (Ranked 7 of 45)

LOCATION

Coordinates: 42.335490, -73.405830
Location Description: Just north of Red Rock
Road and Woodruff Road intersection, before
telephone pole 1265 NECO
Date Observed: 2020-06-16
Crossing Code: xy4233551873405805

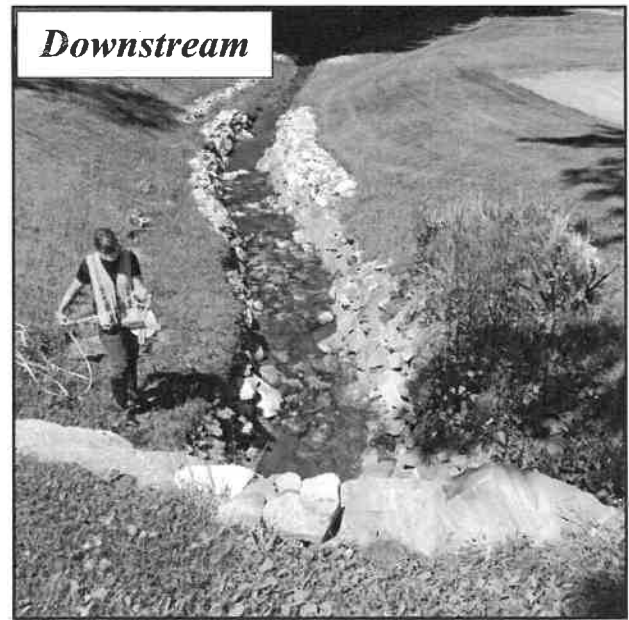
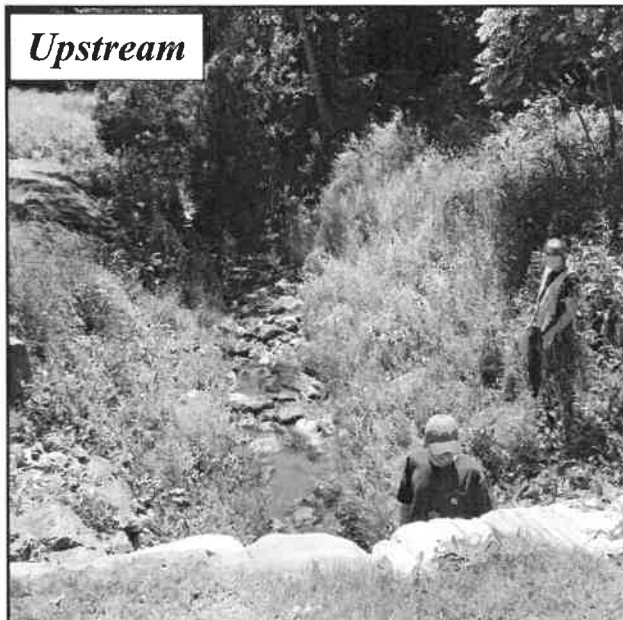
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

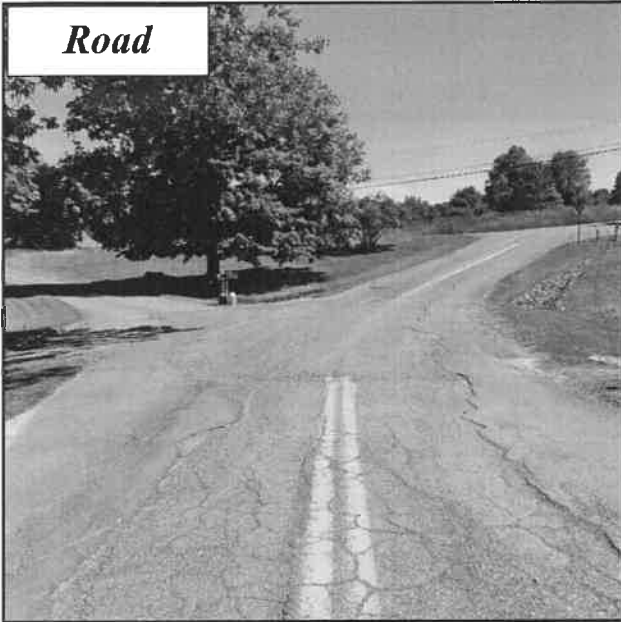
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 8.8
Water Depth/Velocity Matches Stream: No-
Shallower/Yes
Structure Substrate Type: None
Structure Substrate Matches Stream? None



Crossing Comments: Stormwater pipe discharging to river, could be a good site for green infrastructure

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 3.6

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	24.24	7.92	3.18	No
5	26.23		3.51	No
10	27.35		3.71	No
25	28.6		3.93	No
50	29.42		4.08	No
100	30.16		4.22	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 39.9

Dry Passage/Height: Yes (3.2)

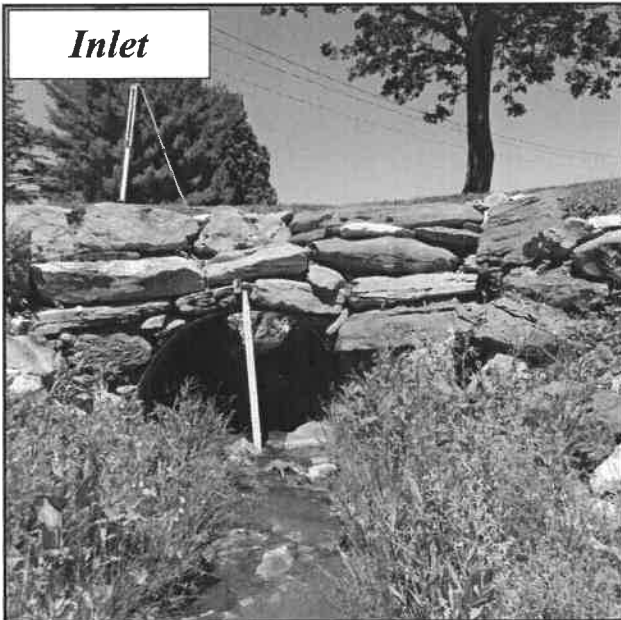
Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): 4

Structure Comments: Two storm drains at inlet and one small one at outlet, note the long plastic

Inlet



INLET

Inlet Shape/Type: Pipe Arch/Elliptical Culvert/
Headwall and Wingwalls

Inlet Drop/Grade: At Stream Grade

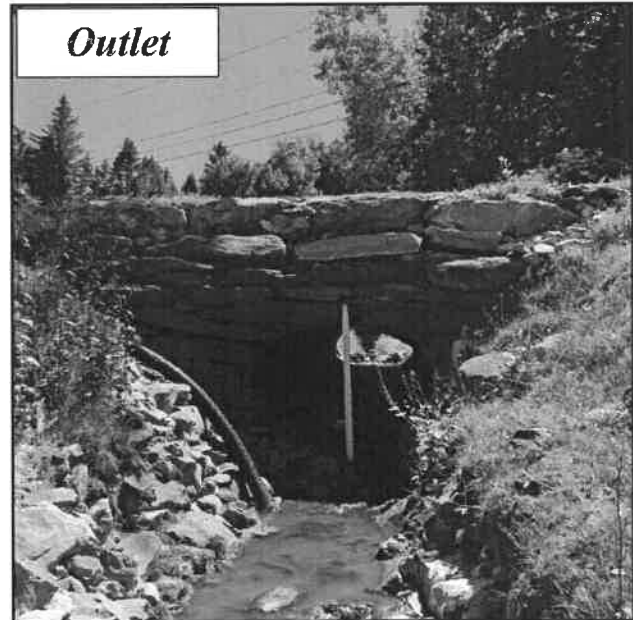
Dimensions:

Width: 6.4, Height: 4.3

Substrate/Water Width: 4.1

Water Depth: 0.22

Outlet



OUTLET

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: Cascade

Drop to Stream Surface/Bottom: 0.9/1.1

Dimensions:

Width: 6.3, Height: 3.8

Substrate/Water Width: 3.6

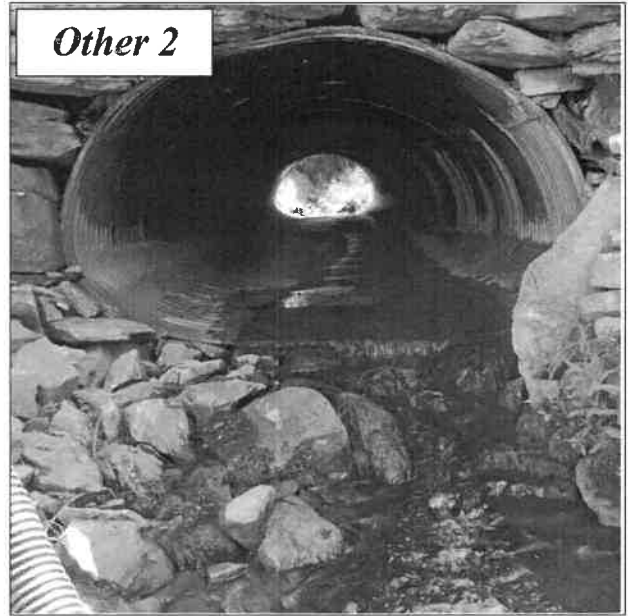
Water Depth: 0.06

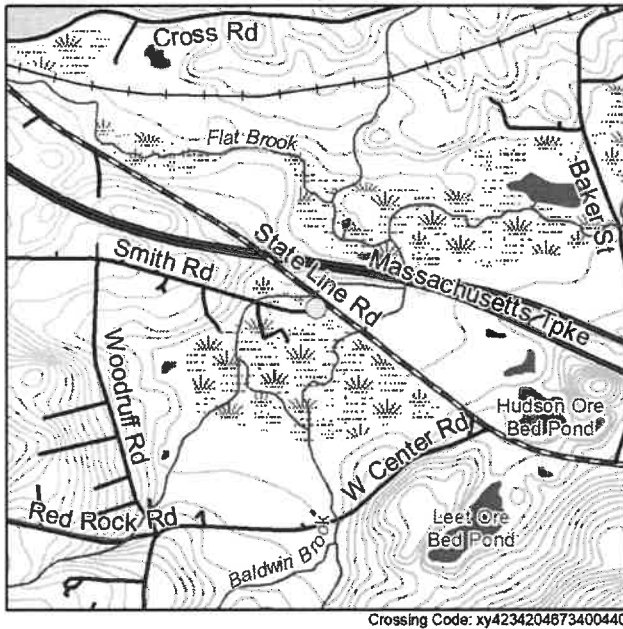
ADDITIONAL PHOTOS

Other 1



Other 2





RESULTS

Barrier Evaluation: Insignificant barrier
Aquatic Organism Passage Score: 0.85
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.342260, -73.400370
Location Description: Located on Smith Road
just before the intersection of Smith Road and
Route 41
Date Observed: 2020-07-10
Crossing Code: xy4234204673400440

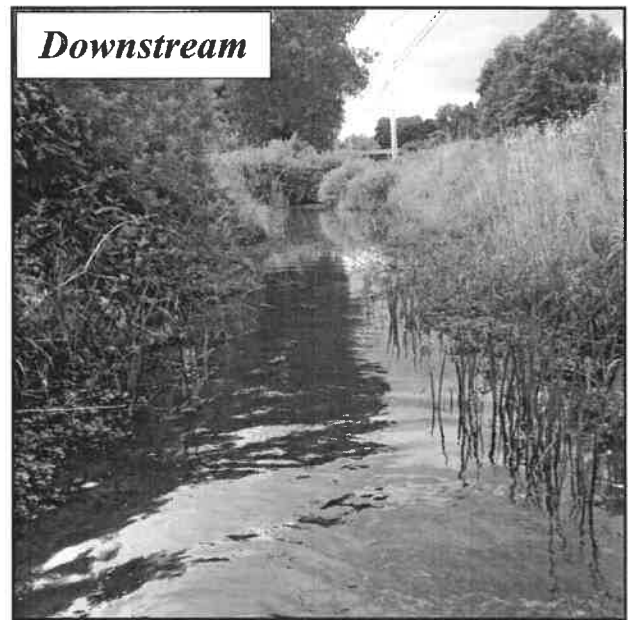
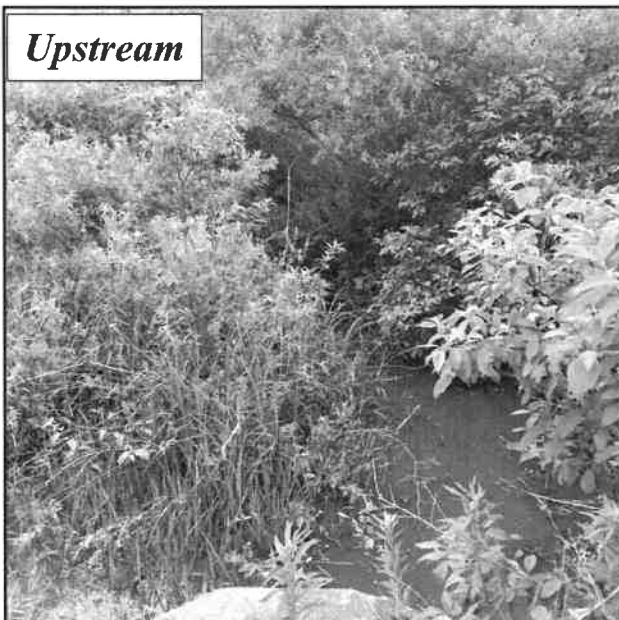
STREAM AND CROSSING

CROSSING CHARACTERISTICS

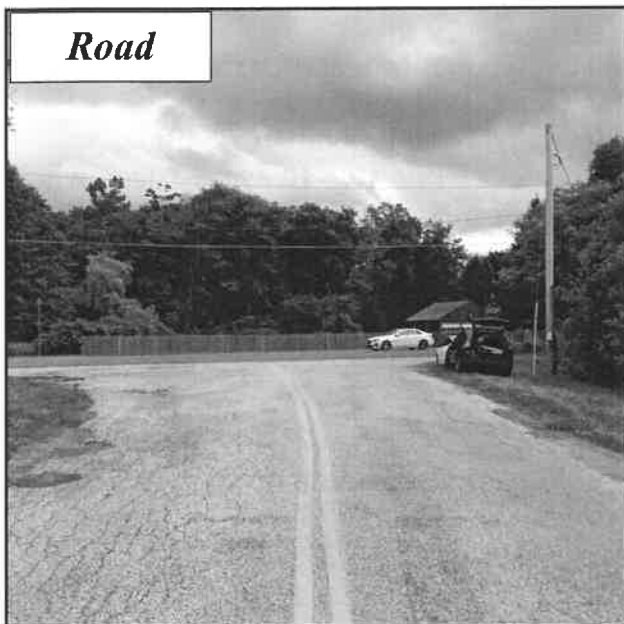
Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 25.0
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: Silt
Structure Substrate Matches Stream? Comparable



Crossing Comments: Crossing appears to connect wetlands across the road. Bankfull difficult to measure and was estimated.

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): 1.33

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	480.91	6.33	2.03	No
5	538.17		2.51	No
10	573.93		2.84	No
25	616.24		3.25	No
50	645.87		3.56	No
100	674.11		3.87	No

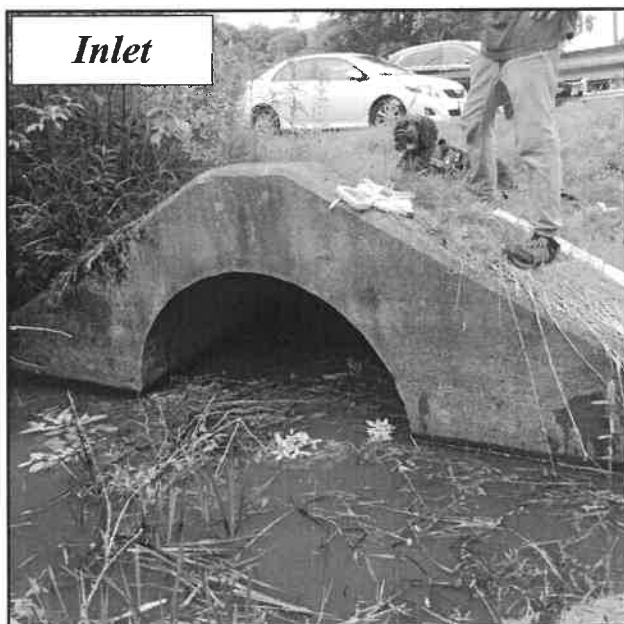
STRUCTURE 1 OF 1

Material: Concrete
 Length (feet): 124.5
 Dry Passage/Height: No
 Outlet Armoring: None

Physical Barrier(s) (Severity): None

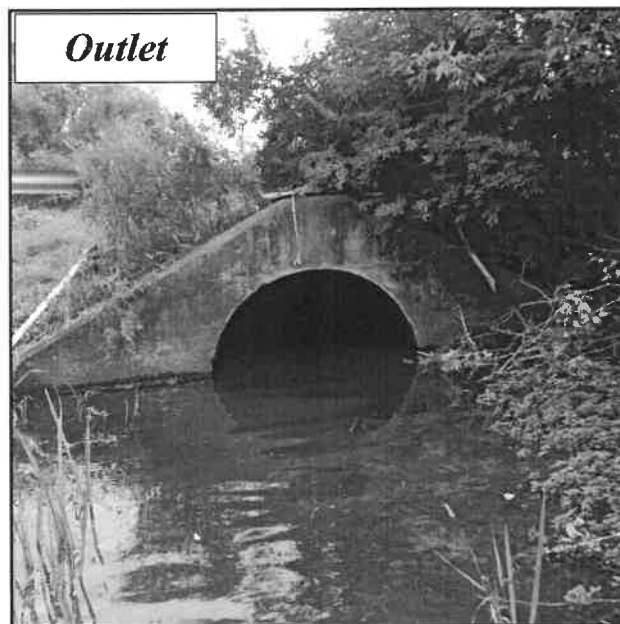
Slope (%): 0

Structure Comments: Outlet elevation measured higher than inlet elevation providing a slightly

Inlet**INLET**

Inlet Shape/Type: Round Culvert/Headwall
 Inlet Drop/Grade: At Stream Grade
 Dimensions:

Width: 4.6, Height: 5
 Substrate/Water Width: 4.6
 Water Depth: 2.6

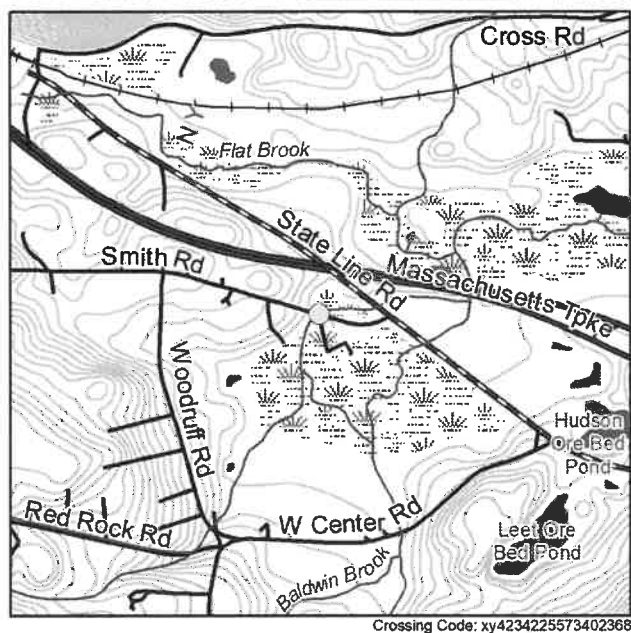
Outlet**OUTLET**

Outlet Shape: Round Culvert
 Outlet Drop/Grade: At Stream Grade
 Drop to Stream Surface/Bottom: 0.0/0.0
 Dimensions:

Width: 4.9, Height: 4.2
 Substrate/Water Width: 4.5
 Water Depth: 2.00

Road: Smith Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Moderate barrier
Aquatic Organism Passage Score: 0.43
Town Comments on Flooding/Condition/
Maintenance: #3 Priority - Beaver issues - whole
road floods from State Road to the crossing.
Overall Ranking: Tier 5 (Ranked 7 of 45)

LOCATION

Coordinates: 42.342200, -73.402390
Location Description: South of 3 Smith Road
Date Observed: 2020-06-26
Crossing Code: xy4234225573402368

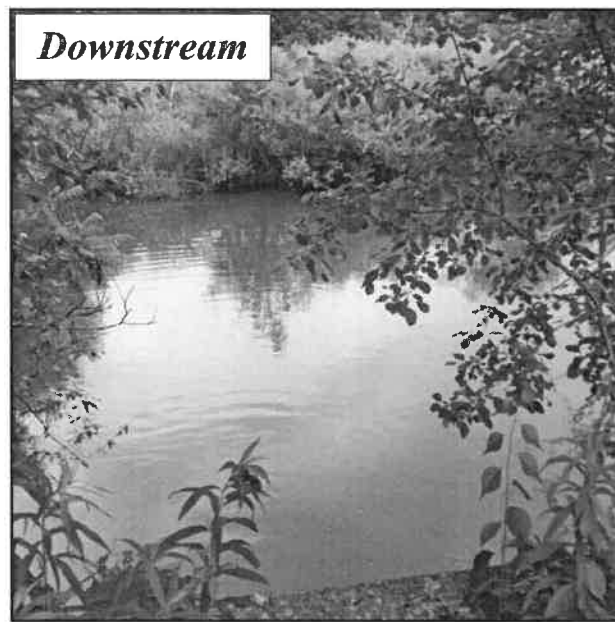
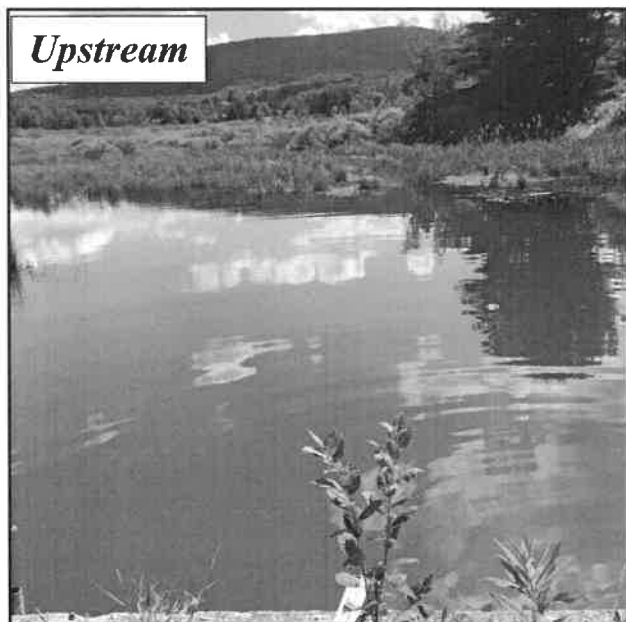
STREAM AND CROSSING

CROSSING CHARACTERISTICS

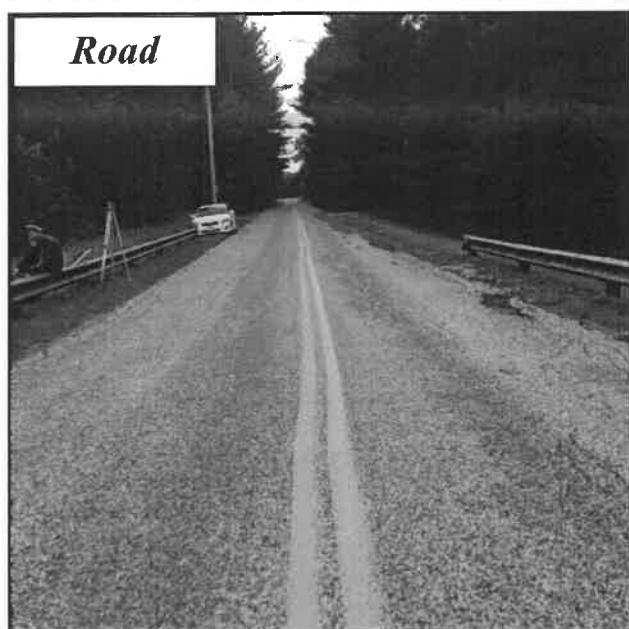
Crossing Type: Multiple Culvert
Number of structures/cells: 2
Condition: OK
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 100.0
Water Depth/Velocity Matches Stream: No-
Shallower/Yes
Structure Substrate Type: None
Structure Substrate Matches Stream? None



Crossing Comments: Other photo to show close-up of inlet barriers. Difficult to get a photo with the full inlet in view due to very deep water. The fencing at the inlet is severely clogged with debris, which is restricting the water flow.



Road

ROAD

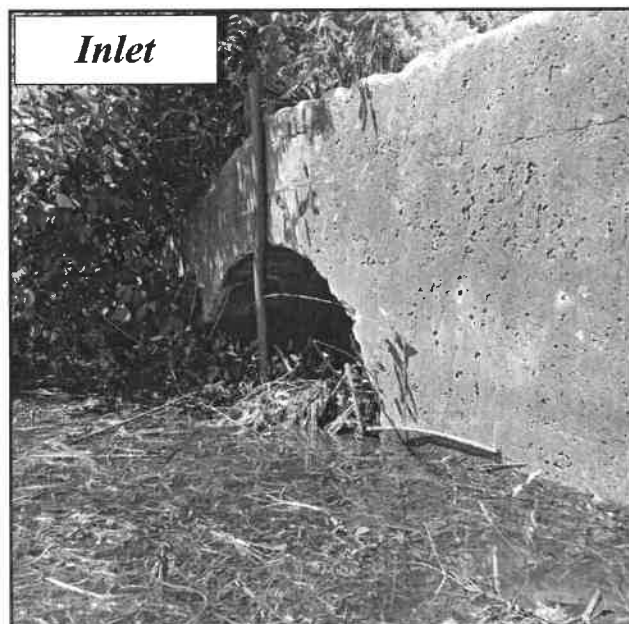
Road Type: Paved
Road Fill Height (feet): 4.8
Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	12.18	10.2	0.59	No
5	13.01		0.67	No
10	13.48		0.72	No
25	13.98		0.77	No
50	14.32		0.8	No
100	14.62		0.83	No

STRUCTURE 1 OF 2

Material: Concrete
Length (feet): 90
Dry Passage/Height: No
Outlet Armoring: None

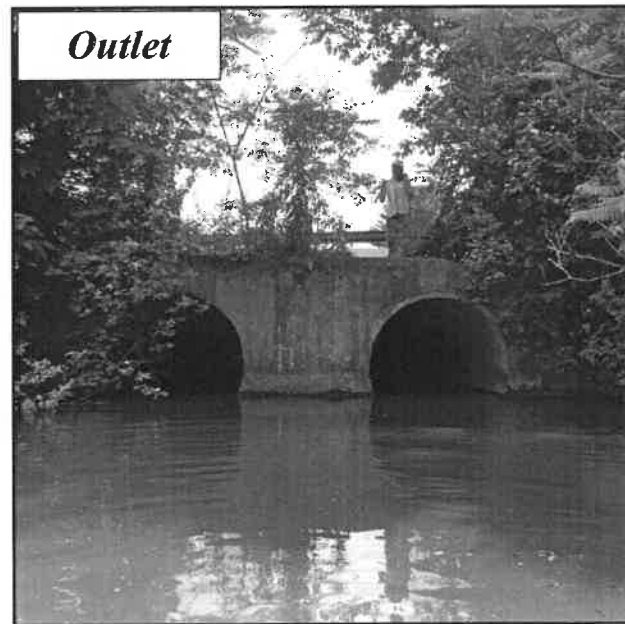
Physical Barrier(s) (Severity): Debris/Sediment/
Rock,Free Fall,Fencing (Severe)
Slope (%): 1
Structure Comments: Inlet water depth is estimated.



Inlet

INLET

Inlet Shape/Type: Round Culvert/Headwall
Inlet Drop/Grade: Inlet Drop
Dimensions:
Width: 5, Height: 5
Substrate/Water Width: 3.5
Water Depth: 1



Outlet

OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: At Stream Grade
Drop to Stream Surface/Bottom: 0.0/0.3
Dimensions:
Width: 5.5, Height: 5.5
Substrate/Water Width: 5.0
Water Depth: 1.50

STRUCTURE 2 OF 2

Material: Concrete
Length (feet): 90
Dry Passage/Height (feet): No

Physical Barrier(s)/Severity: Debris/Sediment/Rock, Free
Fall, Fencing (Severe)
Slope (%): 1
Structure Comments: Inlet water depth is estimated.

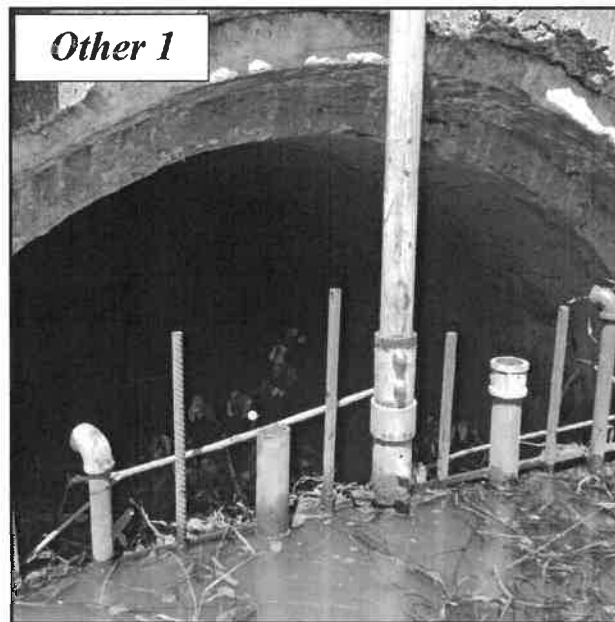
INLET

Inlet Shape/Type: Round Culvert/Headwall
Inlet Drop/Grade: Inlet Drop
Dimensions (feet):
Width: 5, Height: 5
Substrate/Water Width: 5
Water Depth: 1

OUTLET

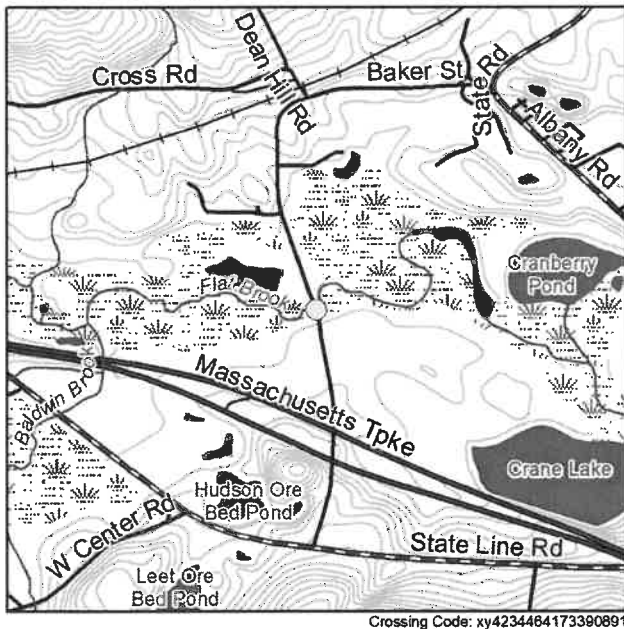
Outlet Shape: Round Culvert
Outlet Drop/Grade: At Stream Grade
Drop to Stream Surface/Bottom (feet): 0/0.2
Dimensions (feet):
Width: 5.5, Height: 5.5
Substrate/Water Width: 5
Water Depth: 1.5

ADDITIONAL PHOTO



Road: Baker Street

Stream: Unnamed



RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/Maintenance:
#2 Priority - Flooding issues, likely undersized. Flat Brook is a major trib of the Williams River and it flows through Wildlife Management Area - Baker Street is in the middle of this WMA. This structure is in the top 5% in MA Climate Action Tool.
Overall Ranking: Tier 5 (Ranked 7 of 45)

LOCATION

Coordinates: 42.344590, -73.390980
Location Description: Adjacent to 22 Baker Street
Date Observed: 2020-06-26
Crossing Code: xy4234464173390891

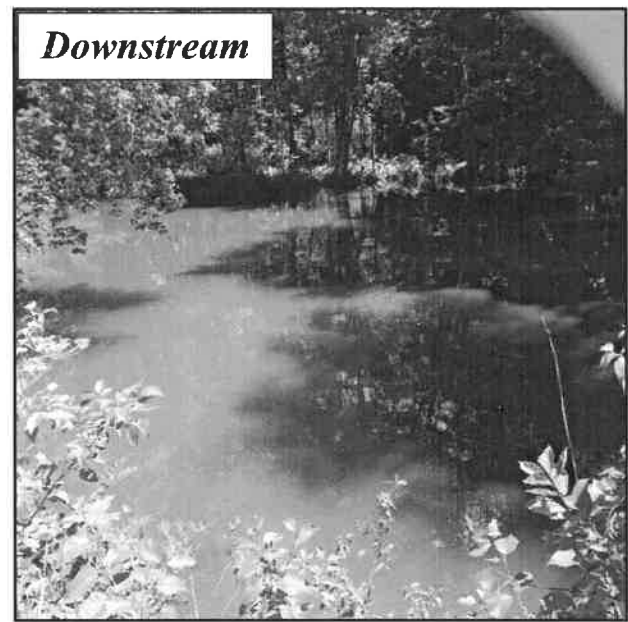
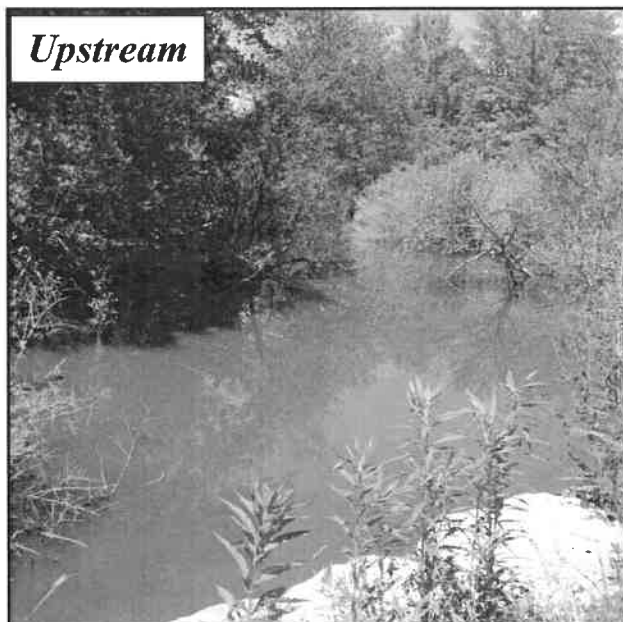
STREAM AND CROSSING

CROSSING CHARACTERISTICS

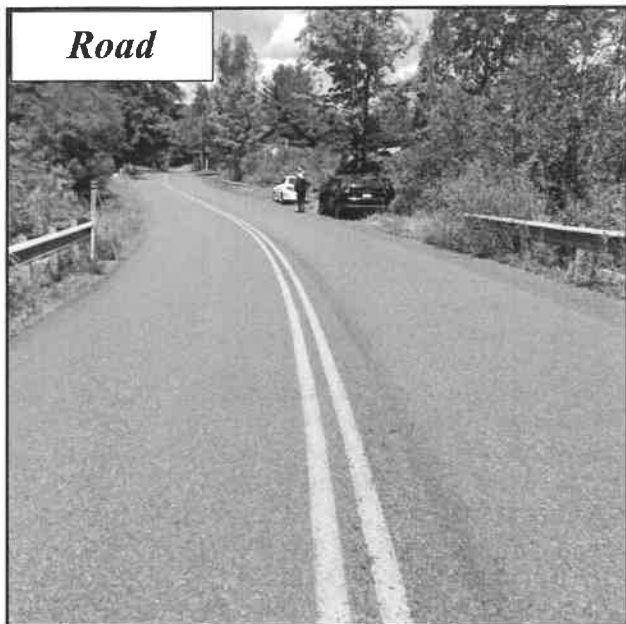
Crossing Type: Partially Inaccessible
Number of structures/cells: 2
Condition: No data
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: No data

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 75.0
Water Depth/Velocity Matches Stream: Unknown/Unknown
Structure Substrate Type: Unknown
Structure Substrate Matches Stream? Unknown



Crossing Comments: Crossing is somewhat inaccessible due to very deep water in wetlands. Some measurements were estimated and photos difficult to get

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): 2.97

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	1263.11	7.47	2.48	No
5	1428.54		3.14	No
10	1529.75		3.59	No
25	1647.94		4.15	No
50	1729.6		4.56	No
100	1806.32		4.97	No

STRUCTURE 1 OF 2

Material: Metal

Length (feet): 39.5

Dry Passage/Height: No

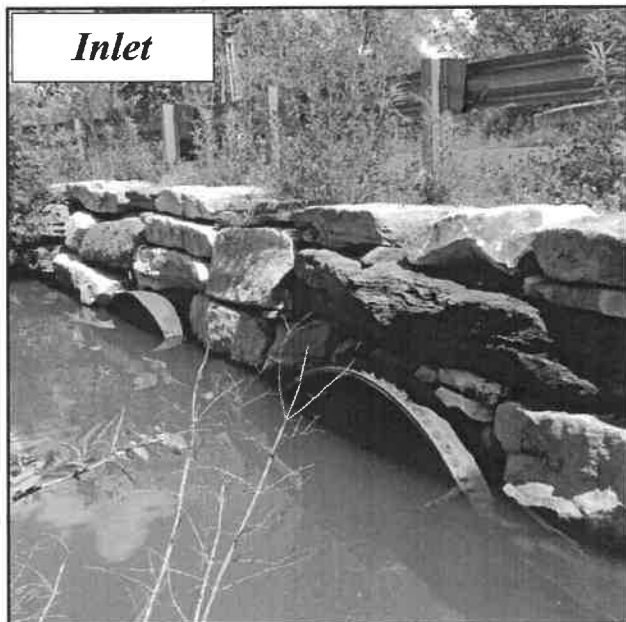
Outlet Armoring:

Physical Barrier(s) (Severity): None

Slope (%): 1

Structure Comments: Height of culvert estimated.

Pipe projects from headwall about 1 inch.

Inlet**INLET**

Inlet Shape/Type: Round Culvert/Headwall

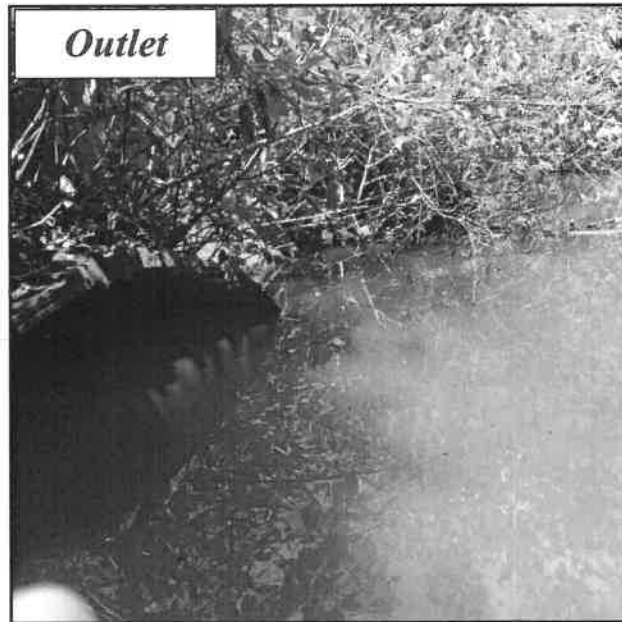
Inlet Drop/Grade: Unknown

Dimensions:

Width: 5.5, Height: 5.5

Substrate/Water Width: No data

Water Depth: No data

Outlet**OUTLET**

Outlet Shape: Round Culvert

Outlet Drop/Grade:

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 5.5, Height: 5.5

Substrate/Water Width: 0.0

Water Depth: 0.00

STRUCTURE 2 OF 2

Material: Metal
Length (feet): 39.5
Dry Passage/Height (feet): No

Physical Barrier(s)/Severity: None
Slope (%): 1
Structure Comments: Water depth for inlet and outlet is estimated. Outlet drop to stream bed unknown. Pipe projects out of headwall about 1 inch

INLET

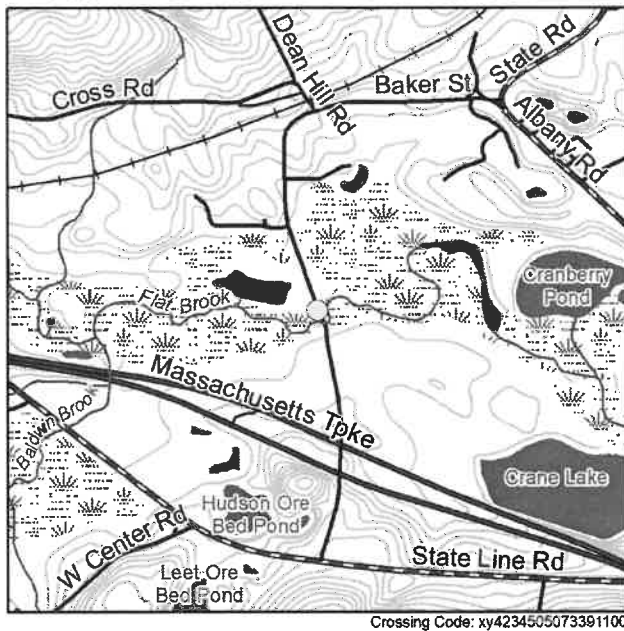
Inlet Shape/Type: Round Culvert/Headwall
Inlet Drop/Grade: Unknown
Dimensions (feet):
 Width: 5.5, Height: 5.5
 Substrate/Water Width: 5.5
 Water Depth: 4.5

OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: Unknown
Drop to Stream Surface/Bottom (feet): 0/No data
Dimensions (feet):
 Width: 5.5, Height: 5.5
 Substrate/Water Width: 5.5
 Water Depth: 4.5

Road: Baker Street

Stream: Unnamed



RESULTS

Barrier Evaluation: Insignificant barrier

Aquatic Organism Passage Score: 0.83

Town Comments on Flooding/Condition/
Maintenance: No comment

Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.345050, -73.391100

Location Description: Culvert adjacent to 23
Baker Street

Date Observed: 2020-07-10

Crossing Code: xy4234505073391100

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Severe

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

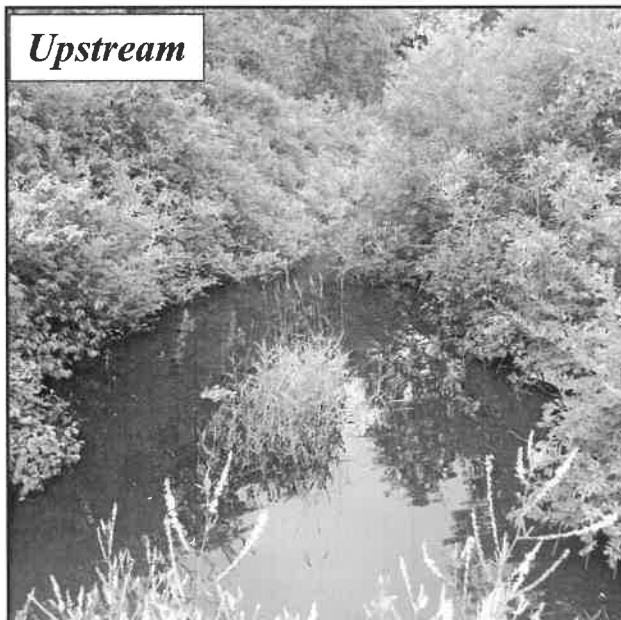
Scour Pool: Small

Bankfull Width (feet): 50.0

Water Depth/Velocity Matches Stream: Yes/Yes

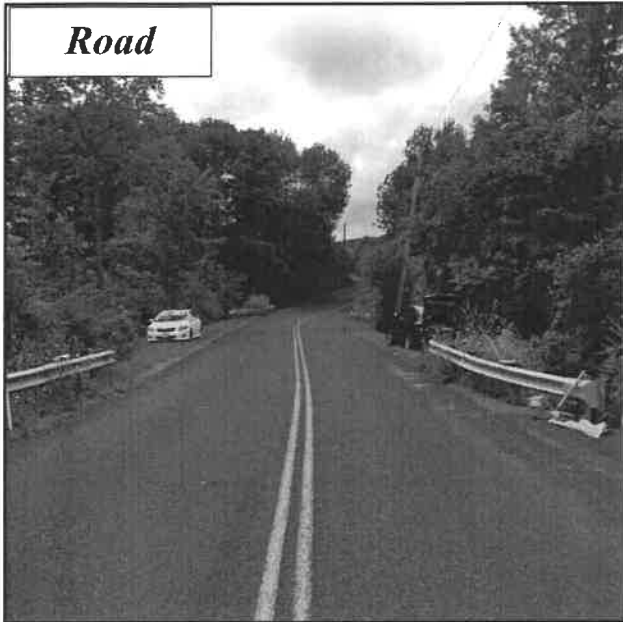
Structure Substrate Type: Cobble

Structure Substrate Matches Stream? Compara-
ble



Crossing Comments: Just north of the Balwin Brook crossing on Baker Street - probable that this is also part of Balwin Brook, but not confirmed

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 1.3

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	1262.38	5.33	2.42	No
5	1427.73		3.09	No
10	1528.89		3.54	No
25	1647.04		4.11	No
50	1728.66		4.53	No
100	1805.34		4.93	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 34.5

Dry Passage/Height: No

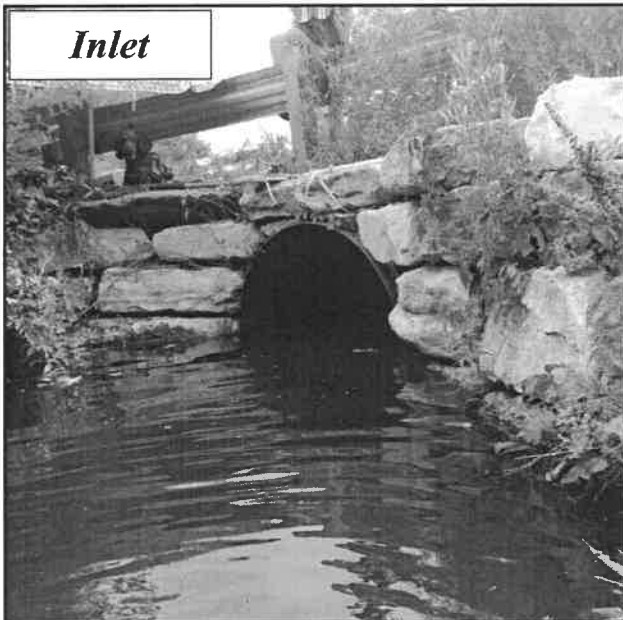
Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): 3

Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Round Culvert/Headwall and Wingwalls

Inlet Drop/Grade: At Stream Grade

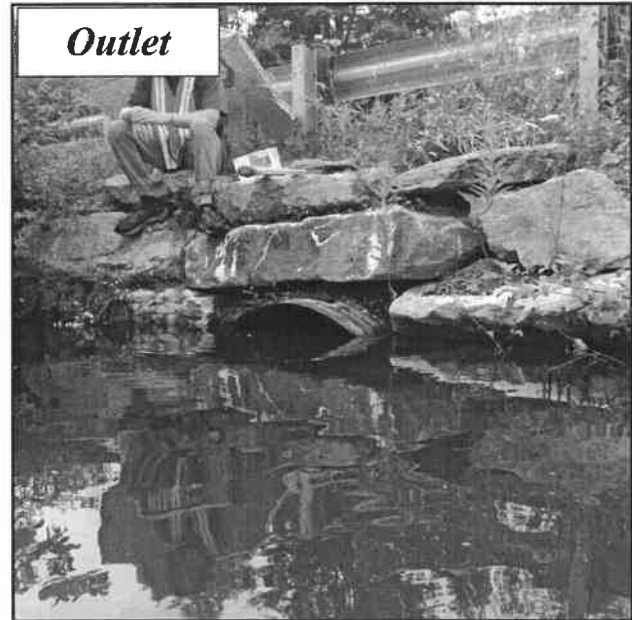
Dimensions:

Width: 3.8, Height: 4

Substrate/Water Width: 3.8

Water Depth: 2

Outlet



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

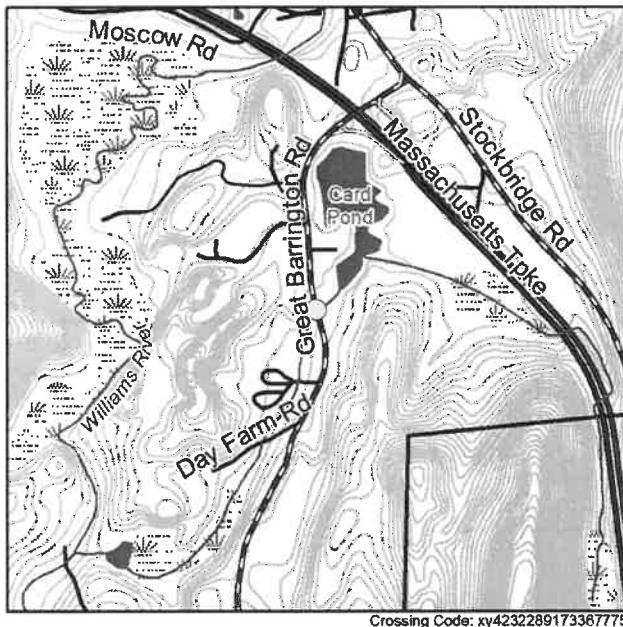
Width: 3.8, Height: 3.8

Substrate/Water Width: 3.8

Water Depth: 3.20

Road: Great Barrington Road

Stream: Unnamed



RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 9 (Ranked 23 of 45)

LOCATION

Coordinates: 42.322890, -73.367730
Location Description: No data
Date Observed: 2020-06-17
Crossing Code: xy4232289173367775

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Partially Inaccessible
Number of structures/cells: 1
Condition: Unknown
Constriction: Severe
Alignment: Skewed (>45°)
Internal Features/Structures: Other

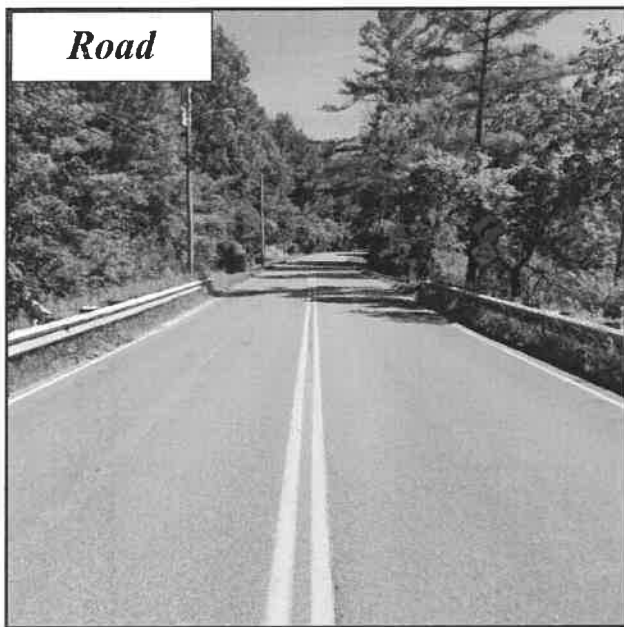
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 100.0
Water Depth/Velocity Matches Stream: Unknown/Unknown
Structure Substrate Type: Unknown
Structure Substrate Matches Stream? Unknown



Crossing Comments: Culvert connects wetlands on either side of road. Culvert is partially inaccessible

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 3

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	81.68	No data		
5	92.28			
10	98.71			
25	106.17			
50	111.29			
100	116.08			

STRUCTURE 1 OF 1

Material: No data

Length (feet): 45

Dry Passage/Height: No

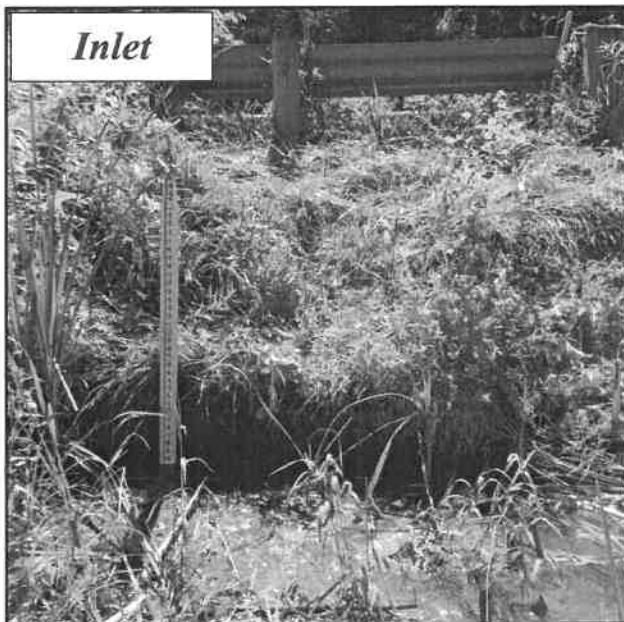
Outlet Armoring:

Physical Barrier(s) (Severity): Other

Slope (%): No data

Structure Comments: Structure mostly inaccessible height and width estimated . Structure length estimated

Inlet



INLET

Inlet Shape/Type: /

Inlet Drop/Grade: Clogged/Collapsed/Submerged

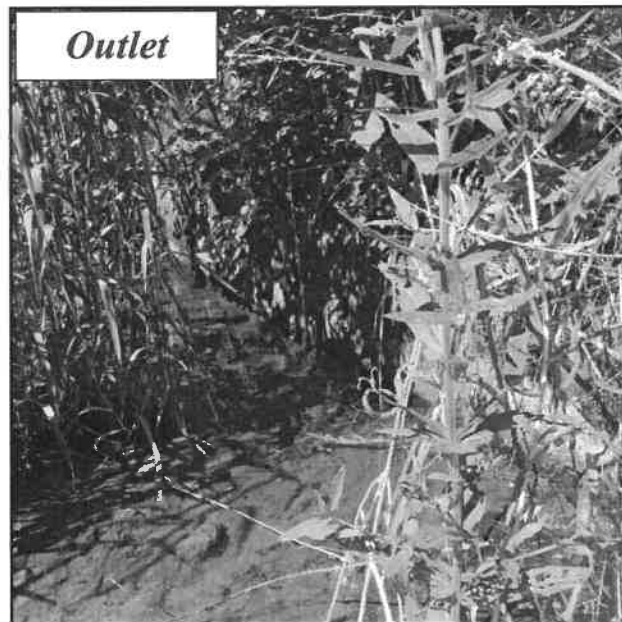
Dimensions:

Width: 1, Height: 1

Substrate/Water Width: No data

Water Depth: No data

Outlet



OUTLET

Outlet Shape:

Outlet Drop/Grade: Clogged/Collapsed/Submerged

Drop to Stream Surface/Bottom: 0.0/0.0

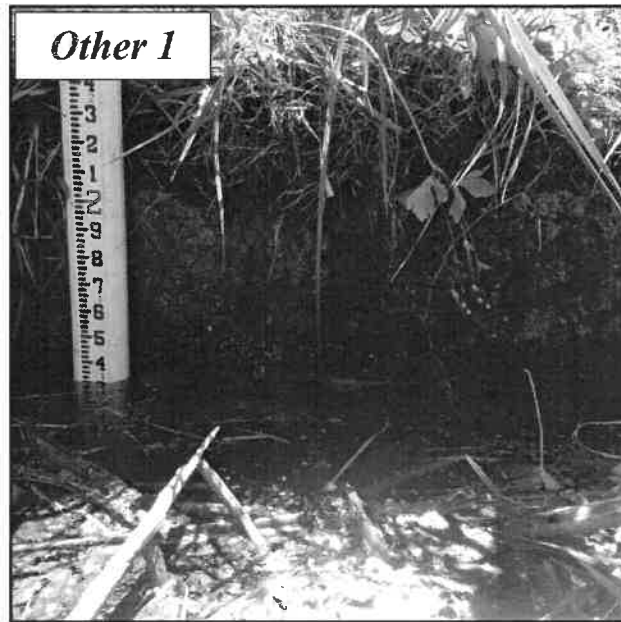
Dimensions:

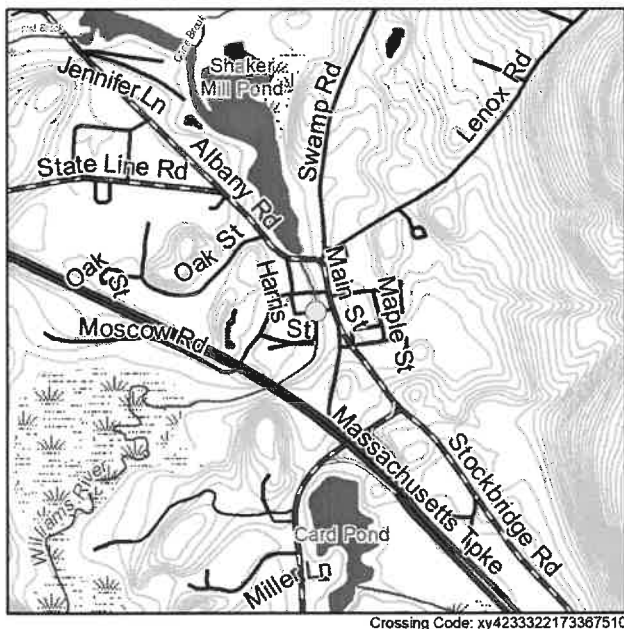
Width: 0.0, Height: 0.0

Substrate/Water Width: 0.0

Water Depth: 0.00

ADDITIONAL PHOTO





RESULTS

Barrier Evaluation: Insignificant barrier
 Aquatic Organism Passage Score: 0.99
 Town Comments on Flooding/Condition/
 Maintenance: No comment
 Overall Ranking: Not ranked

LOCATION

Coordinates: 42.333240, -73.367400
 Location Description: Pedestrian bridge crossing
 next to The Foundry
 Date Observed: 2020-07-01
 Crossing Code: xy4233322173367510

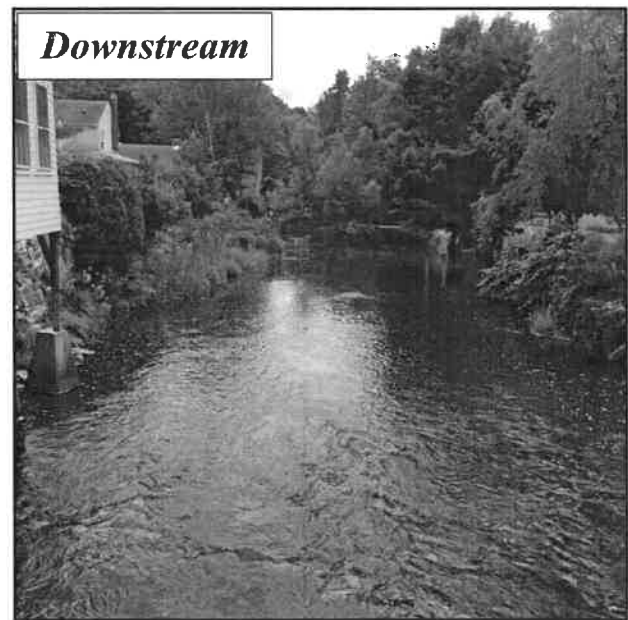
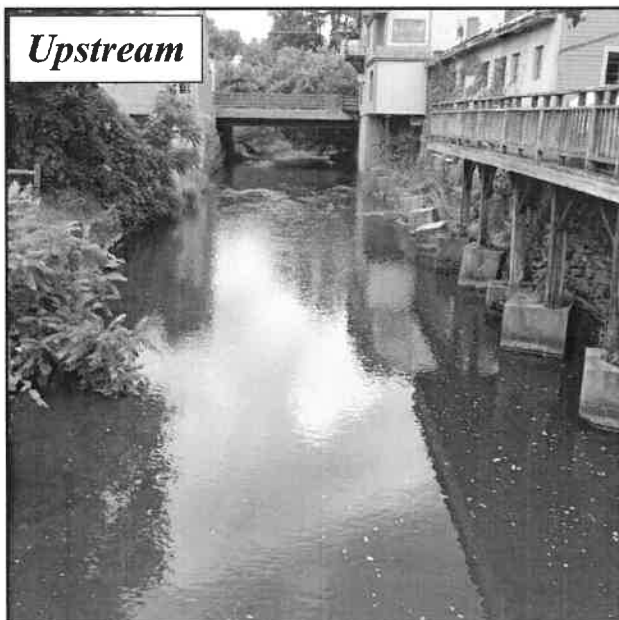
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Bridge
 Number of structures/cells: 1
 Condition: OK
 Constriction: Spans Only Bankfull/Active Chan-
 nel
 Alignment: Flow-Aligned
 Internal Features/Structures: None

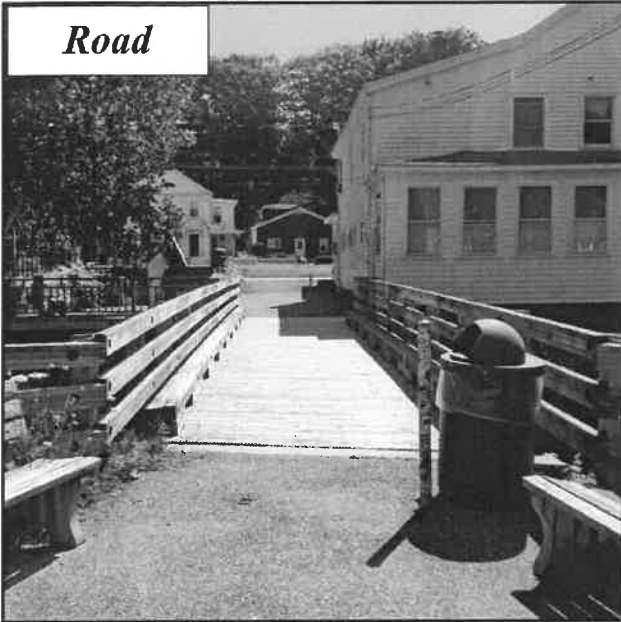
STREAM CHARACTERISTICS

Scour Pool: None
 Bankfull Width (feet): 39.0
 Water Depth/Velocity Matches Stream: Yes/Yes
 Structure Substrate Type: Cobble
 Structure Substrate Matches Stream? Compara-
 ble



Crossing Comments: Wooden pedestrian bridge

Road



ROAD

Road Type: Trail

Road Fill Height (feet): 0

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	2736.7	No data		
5	3080.73			
10	3297.17			
25	3554.62			
50	3735.72			
100	3909.02			

STRUCTURE 1 OF 1

Material: Wood

Length (feet): 10

Dry Passage/Height: No

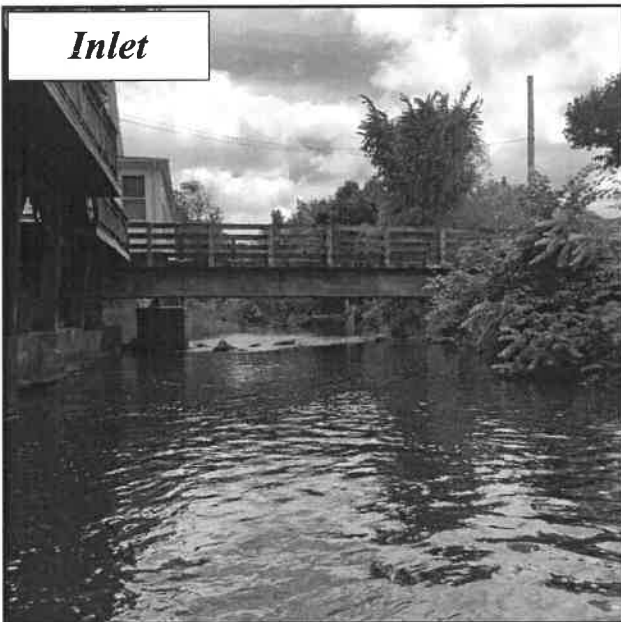
Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: Structure is a pedestrian only wooden bridge

Inlet



INLET

Inlet Shape/Type: Box/Bridge with Abutments/None

Inlet Drop/Grade: At Stream Grade

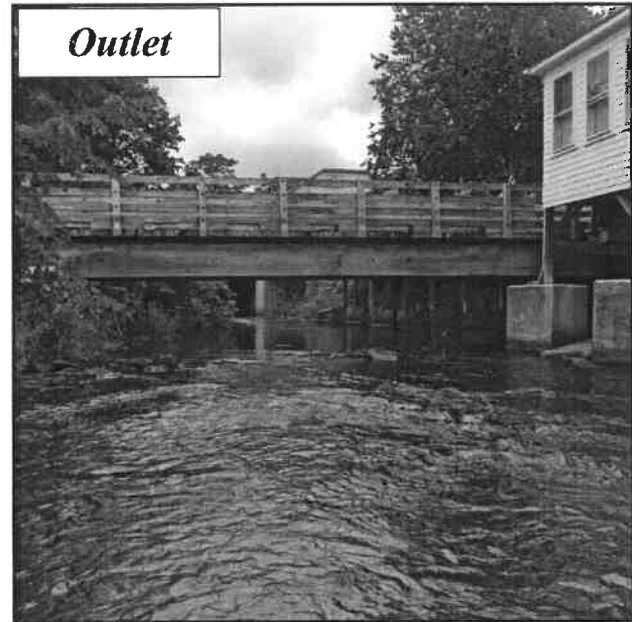
Dimensions:

Width: 39, Height: 6.6

Substrate/Water Width: 39

Water Depth: 1.5

Outlet



OUTLET

Outlet Shape: Box/Bridge with Abutments

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

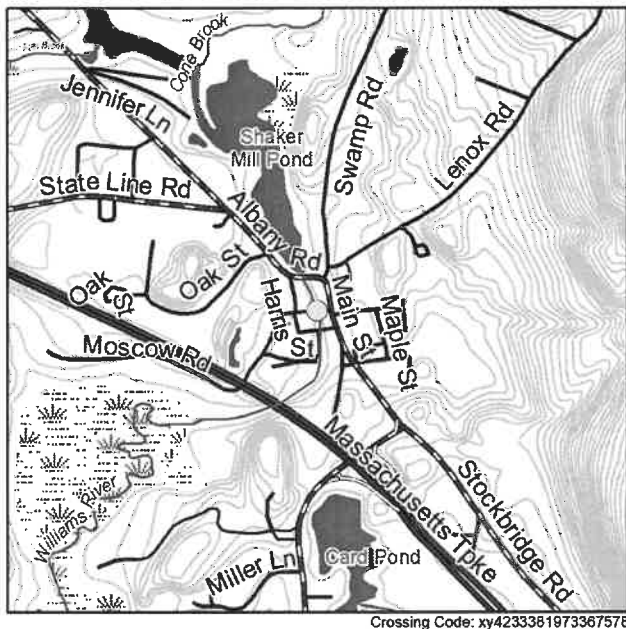
Width: 39.0, Height: 6.4

Substrate/Water Width: 39.0

Water Depth: 1.50

Road: Center Street

Stream: Williams River



RESULTS

Barrier Evaluation: Insignificant barrier
Aquatic Organism Passage Score: 0.99
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Not ranked

LOCATION

Coordinates: 42.333970, -73.367590
Location Description: Center Street bridge near
Rouge Restaurant
Date Observed: 2020-07-01
Crossing Code: xy4233381973367578

STREAM AND CROSSING

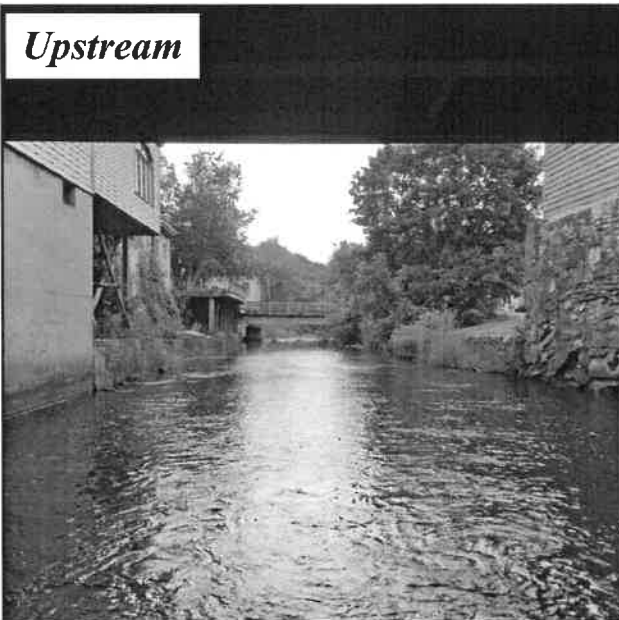
CROSSING CHARACTERISTICS

Crossing Type: Bridge
Number of structures/cells: 1
Condition: OK
Constriction: Spans Only Bankfull/Active Channel
Alignment: Flow-Aligned
Internal Features/Structures: None

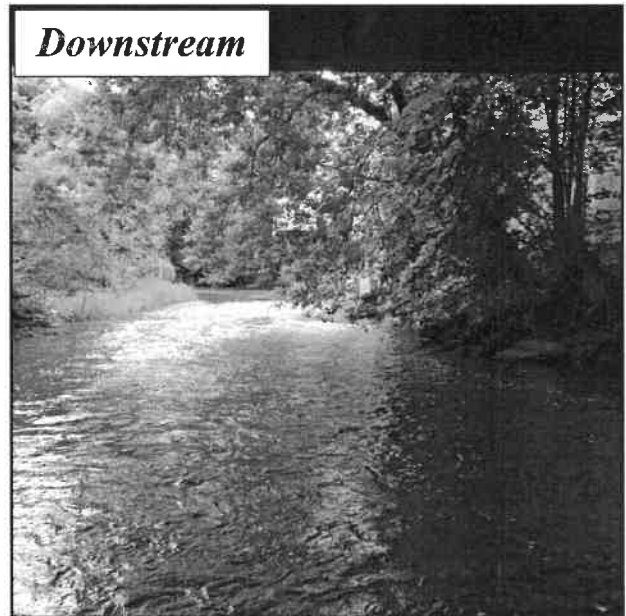
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 39.0
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: Cobble
Structure Substrate Matches Stream? Comparable

Upstream

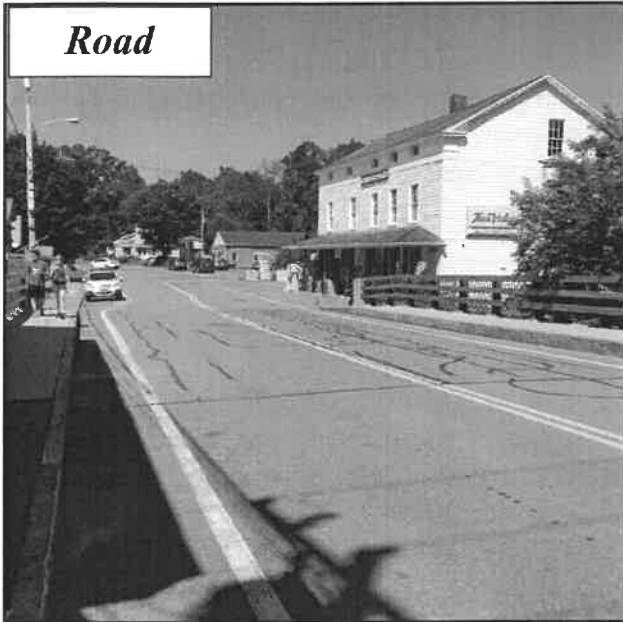


Downstream



Crossing Comments: No data

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 0

Road Ownership: Town

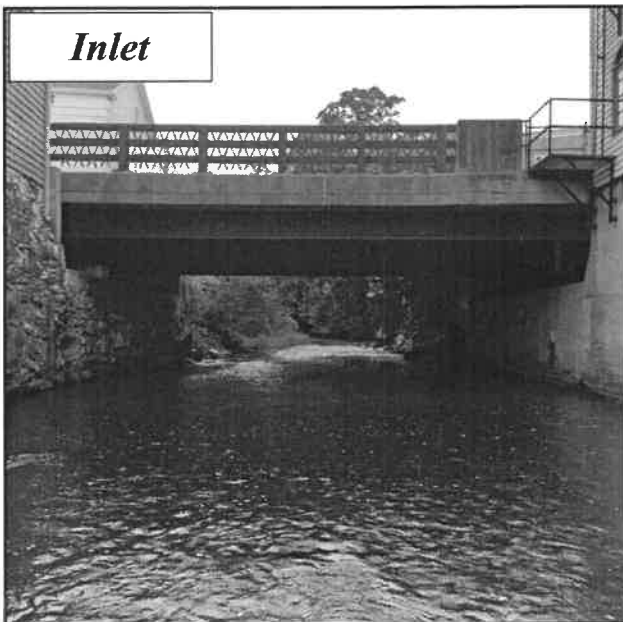
Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	2735.95	No data		
5	3079.88			
10	3296.24			
25	3553.61			
50	3734.65			
100	3907.9			

STRUCTURE 1 OF 1

Material: Combination
Length (feet): 42
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): None
Slope (%): No data
Structure Comments: No data

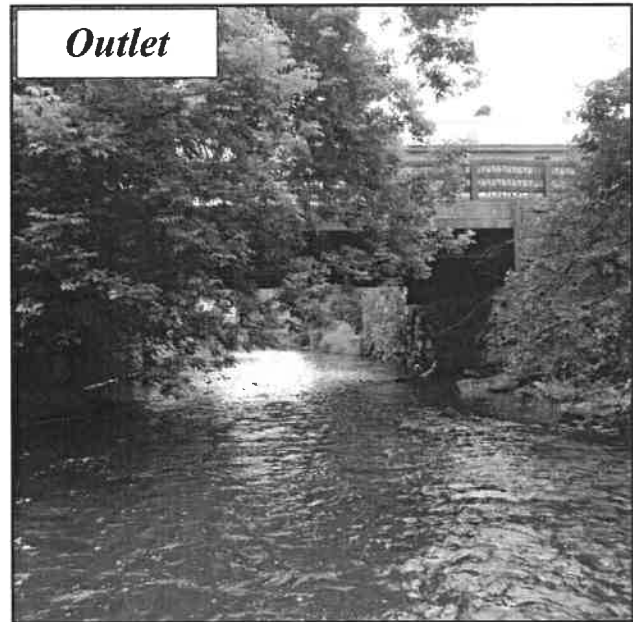
Inlet



INLET

Inlet Shape/Type: Box/Bridge with Abutments/
None
Inlet Drop/Grade: At Stream Grade
Dimensions:
Width: 39, Height: 14.1
Substrate/Water Width: 39
Water Depth: 1.3

Outlet

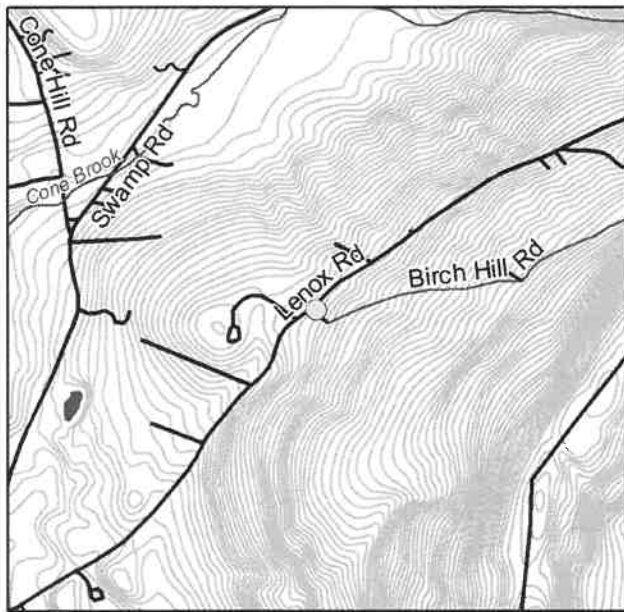


OUTLET

Outlet Shape: Box/Bridge with Abutments
Outlet Drop/Grade: At Stream Grade
Drop to Stream Surface/Bottom: 0.0/0.0
Dimensions:
Width: 39.0, Height: 14.1
Substrate/Water Width: 39.0
Water Depth: 1.30

Road: Lenox Road

Stream: Unnamed



Crossing Code: xy4234469073357330

RESULTS

Barrier Evaluation: Moderate barrier

Aquatic Organism Passage Score: 0.41

Town Comments on Flooding/Condition/

Maintenance: No comment

Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.344690, -73.357330

Location Description: On Lenox Road next to a gravel driveway and telephone pole 68

Date Observed: 2020-07-31

Crossing Code: xy4234469073357330

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Severe

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None

Bankfull Width (feet): 6.0

Water Depth/Velocity Matches Stream: Dry/Dry

Structure Substrate Type: None

Structure Substrate Matches Stream? None

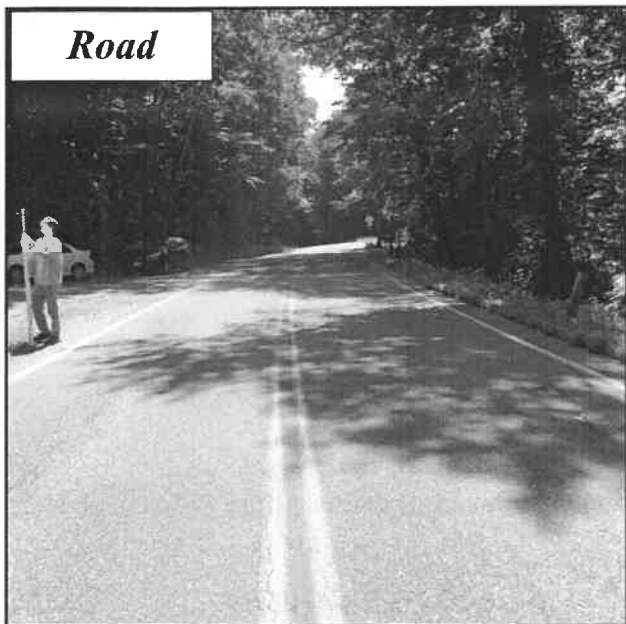


Upstream



Downstream

Crossing Comments: Outlet photo difficult to get due to large fallen log and thick vegetation

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): 3.01

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	9.15	4.61	1.11	No
5	10.29		1.38	No
10	10.96		1.55	No
25	11.74		1.76	No
50	12.26		1.91	No
100	12.75		2.06	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 48.8

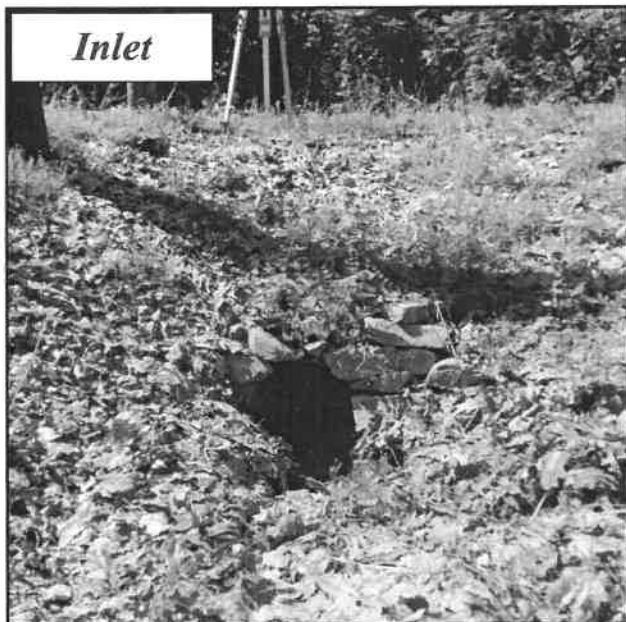
Dry Passage/Height: Yes (1.6)

Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): 10

Structure Comments: No data

Inlet**INLET**

Inlet Shape/Type: Round Culvert/Wingwalls

Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 1.6, Height: 1.6

Substrate/Water Width: 0

Water Depth: 0

Outlet**OUTLET**

Outlet Shape: Round Culvert

Outlet Drop/Grade: Free Fall

Drop to Stream Surface/Bottom: 0.6/0.6

Dimensions:

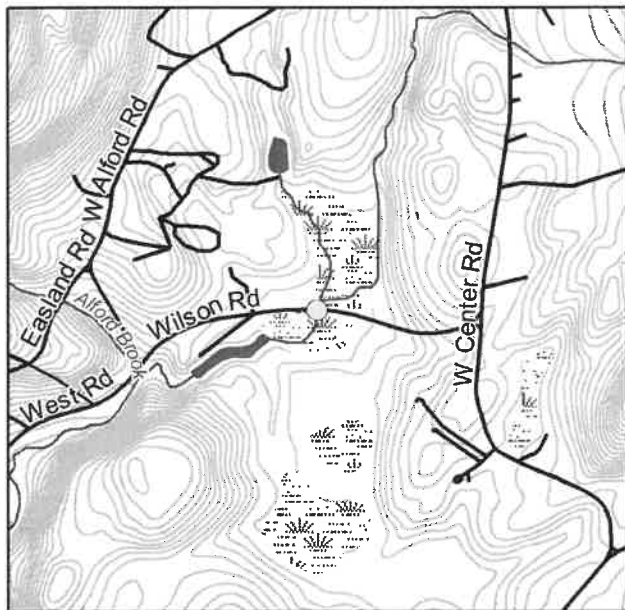
Width: 1.6, Height: 1.6

Substrate/Water Width: 0.0

Water Depth: 0.00

Road: Wilson Road

Stream: Alford Brook



RESULTS

Barrier Evaluation: no score - missing data

Aquatic Organism Passage Score: No data

Town Comments on Flooding/Condition/Maintenance:

#1 Priority - Beaver issues - no deceiver - Alford Brook Club may be supportive of replacement, would prefer to not have beaver upstream of their trout pond. Road floods and it is undermining the road. This was a bacteria monitoring site and the water level is consistently almost at the road level. On MA OLIVER as a CFR. Alford Brook Club maintains a trout pond for its members (downstream of this crossing). Alford Brook Club owns property adjacent to the crossing which floods almost to the basement windows of the structure. Willson Road is scheduled for repaving in 2022

Overall Ranking: Tier 4 (Ranked 6 of 45)

LOCATION

Coordinates: 42.297790, -73.408240

Location Description: Between Alford Brook Club and telephone pole 7-84

Date Observed: 2019-05-24

Crossing Code: xy4229773273408268

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Partially Inaccessible

Number of structures/cells: 2

Condition: OK

Constriction: Severe

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

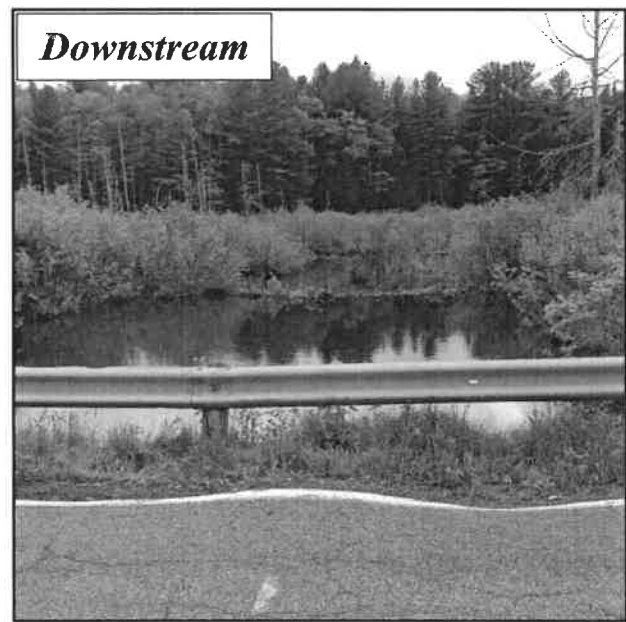
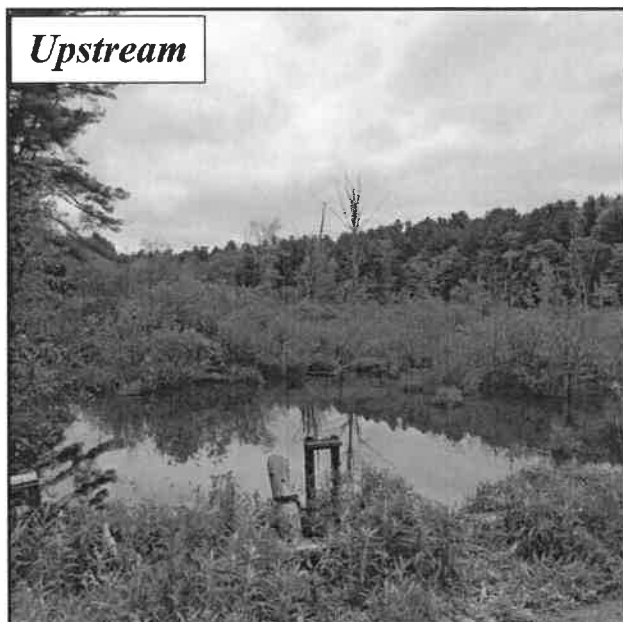
Scour Pool: None

Bankfull Width (feet): 100.0

Water Depth/Velocity Matches Stream: Yes/Yes

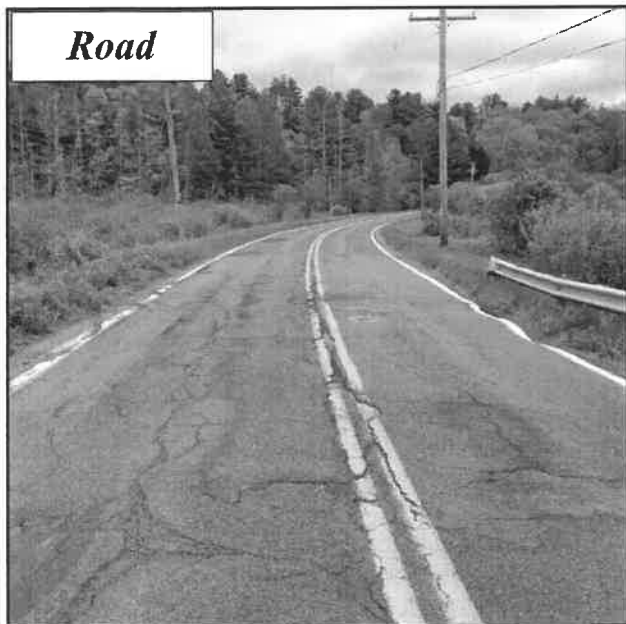
Structure Substrate Type: Unknown

Structure Substrate Matches Stream? Unknown



Crossing Comments: Difficult to see pipes, road surface in bad shape, beaver activity, wetland connection, pipes completely submerged

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 1.5

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	115.12	4.64	2.09	No
5	127.47		2.31	No
10	134.72		2.45	No
25	142.94		2.62	No
50	148.46		2.74	No
100	153.55		2.85	No

STRUCTURE 1 OF 2

Material: Metal

Length (feet): 33.1

Dry Passage/Height: No

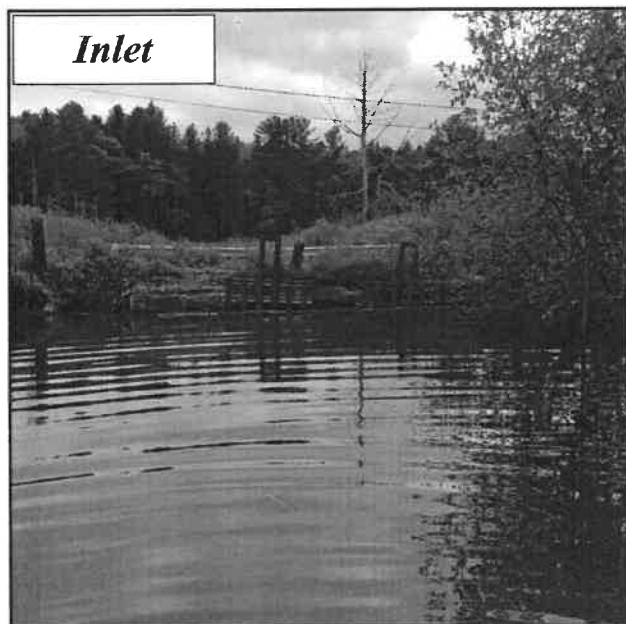
Outlet Armoring: None

Physical Barrier(s) (Severity): Debris/Sediment/
Rock, Fencing (Moderate)

Slope (%): 4

Structure Comments: Outlet completely sub-

Inlet



INLET

Inlet Shape/Type: Round Culvert/Headwall

Inlet Drop/Grade: Clogged/Collapsed/Submerged

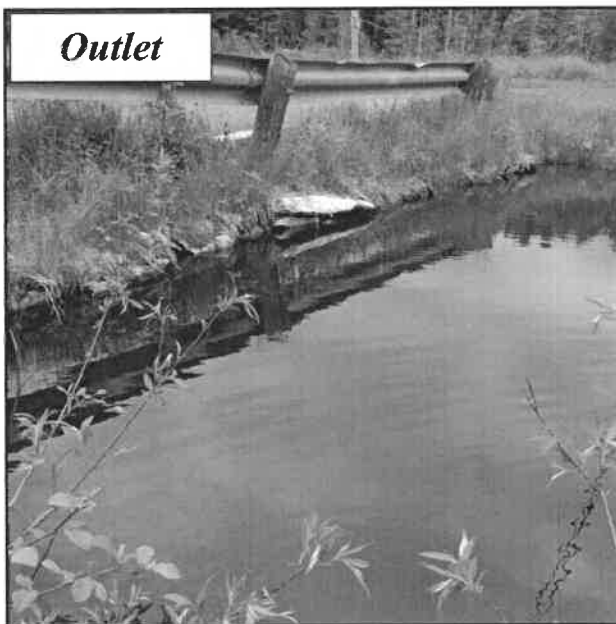
Dimensions:

Width: 4, Height: 4

Substrate/Water Width: 2.5

Water Depth: 2.6

Outlet



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: Clogged/Collapsed/Submerged

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 4.0, Height: 4.0

Substrate/Water Width: 4.0

Water Depth: 4.00

STRUCTURE 2 OF 2

Material: Metal
Length (feet): 33
Dry Passage/Height (feet): No

Physical Barrier(s)/Severity: Debris/Sediment/
Rock,Fencing (Moderate)
Slope (%): 3
Structure Comments: Structure 2 inlet and outlet com-
pletely submerged, cannot measure- assuming same as
structure 1

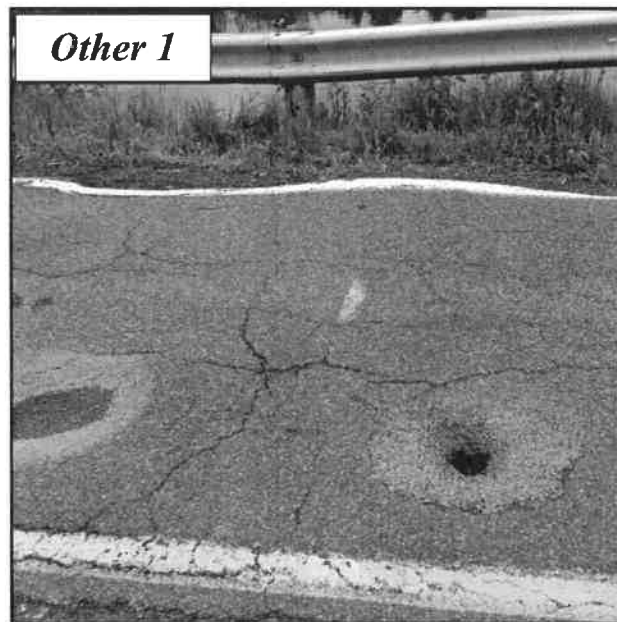
INLET

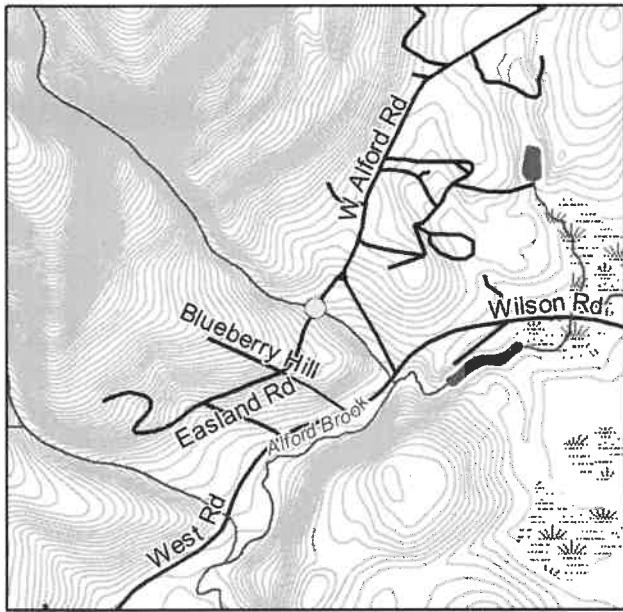
Inlet Shape/Type: Round Culvert/Headwall
Inlet Drop/Grade: Clogged/Collapsed/
Submerged
Dimensions (feet):
Width: 4, Height: 4
Substrate/Water Width: 4
Water Depth: 4

OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: Clogged/Collapsed/Submerged
Drop to Stream Surface/Bottom (feet): 0/0
Dimensions (feet):
Width: 4, Height: 4
Substrate/Water Width: 4
Water Depth: 4

ADDITIONAL PHOTO





RESULTS

Barrier Evaluation: Severe barrier
 Aquatic Organism Passage Score: 0.02
 Town Comments on Flooding/Condition/
 Maintenance: No comment
 Overall Ranking: Tier 3 (Ranked 4 of 45)

LOCATION

Coordinates: 42.298800, -73.415950
 Location Description: On Easland Road to the
 left of intersection with West Alford Road
 Date Observed: 2019-05-24
 Crossing Code: xy4229803373416298

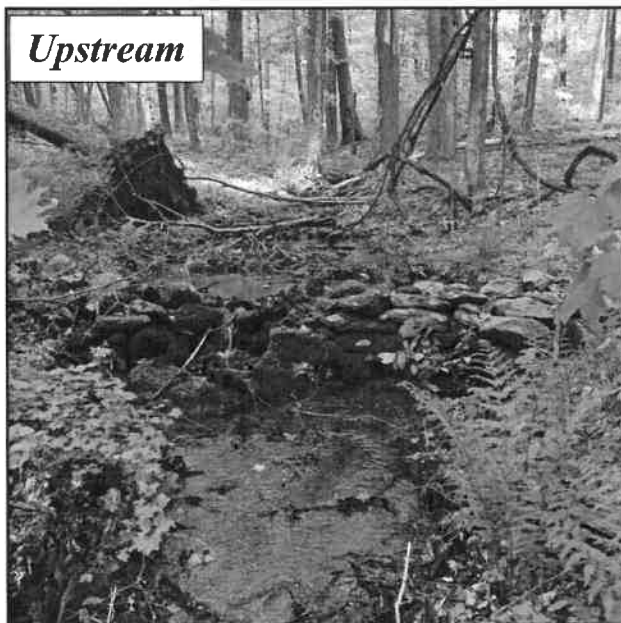
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert
 Number of structures/cells: 1
 Condition: OK
 Constriction: Moderate
 Alignment: Flow-Aligned
 Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: Large
 Bankfull Width (feet): 4.4
 Water Depth/Velocity Matches Stream: No-
 Shallower/No-Faster
 Structure Substrate Type: None
 Structure Substrate Matches Stream? None



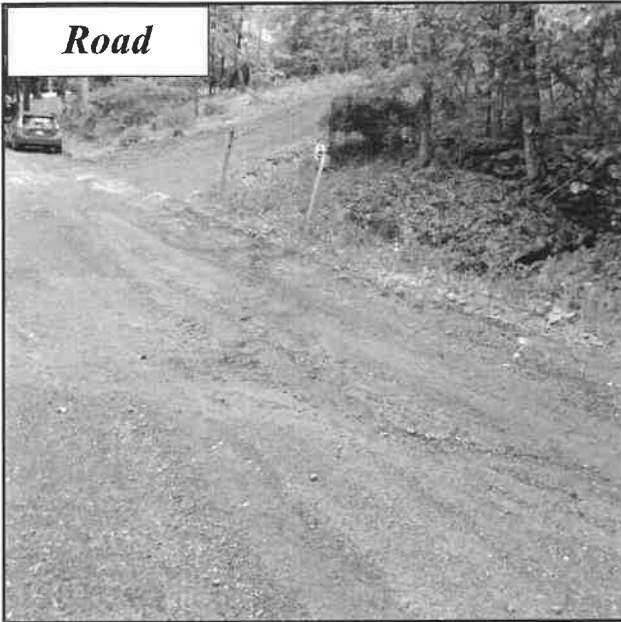
Upstream



Downstream

Crossing Comments: Severe erosion downstream; road sediment filling channel at inlet

Road



ROAD

Road Type: Unpaved
Road Fill Height (feet): 0.28
Road Ownership: Town

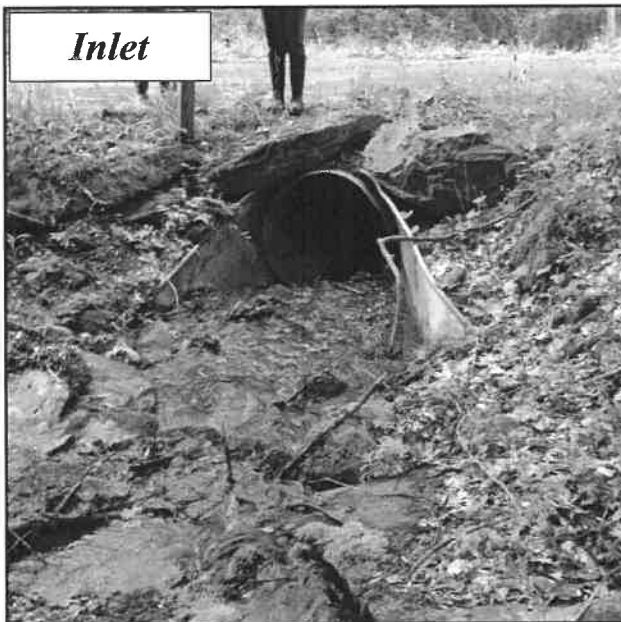
Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	42.16	3.28	2.19	No
5	46.74		2.25	No
10	49.66		2.29	No
25	53.18		2.33	No
50	55.67		2.37	No
100	58.07		2.4	No

STRUCTURE 1 OF 1

Material: Metal
Length (feet): 39.8
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): Free Fall (Minor)
Slope (%): 8
Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Round Culvert/Wingwalls
Inlet Drop/Grade: Inlet Drop
Dimensions:
Width: 2.7, Height: 3
Substrate/Water Width: 0.9
Water Depth: 0.26

Outlet



OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: Free Fall
Drop to Stream Surface/Bottom: 2.3/2.8
Dimensions:
Width: 2.9, Height: 3.0
Substrate/Water Width: 1.3
Water Depth: 0.20

ADDITIONAL PHOTOS

Other 1



Other 2

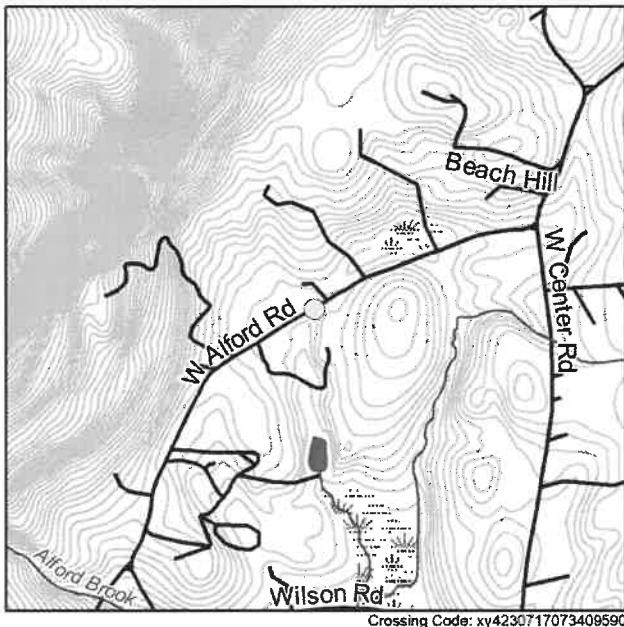


Other 3



Road: West Alford Road

Stream: Unnamed tributary to Alford



RESULTS

Barrier Evaluation: Severe barrier
Aquatic Organism Passage Score: 0.19
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 7 (Ranked 13 of 45)

LOCATION

Coordinates: 42.307170, -73.409590
Location Description: Adjacent to NE Telephone
4,14,10
Date Observed: 2020-10-28
Crossing Code: xy4230717073409590

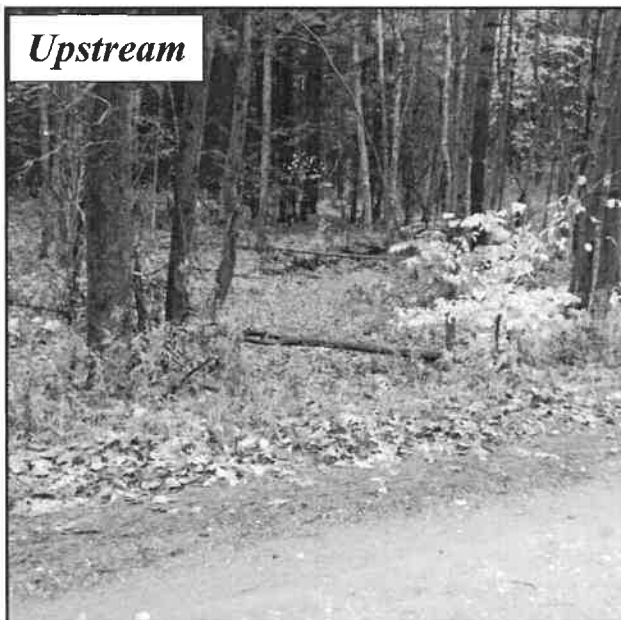
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

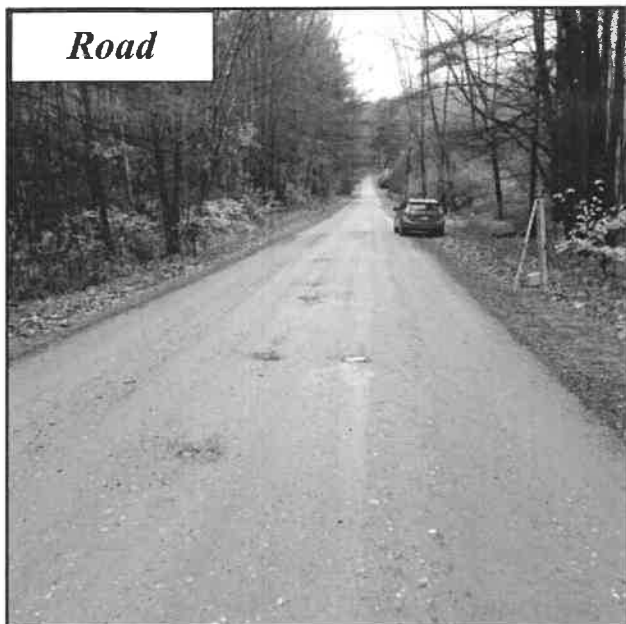
STREAM CHARACTERISTICS

Scour Pool: Large
Bankfull Width (feet): 10.0
Water Depth/Velocity Matches Stream: Dry/Dry
Structure Substrate Type: None
Structure Substrate Matches Stream? None



Crossing Comments: Eroded banks evident up and downstream. Difficult to measure bank-full width. Intermittent flow

Road



ROAD

Road Type: Unpaved
Road Fill Height (feet): 2.7
Road Ownership: Town

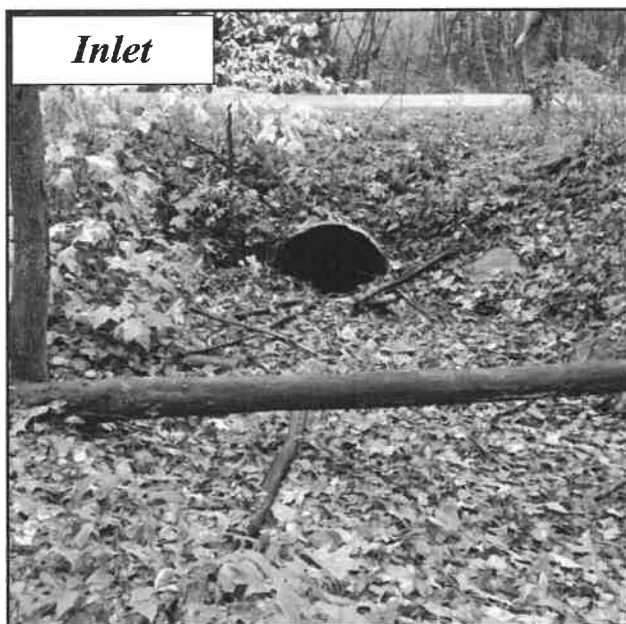
Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	21.34	5.15	1.07	No
5	23.31		1.26	No
10	24.5		1.39	No
25	25.87		1.54	No
50	26.81		1.64	No
100	27.7		1.75	No

STRUCTURE 1 OF 1

Material: Metal
Length (feet): 36
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): None
Slope (%): 1
Structure Comments: 1.2 inlet drop, lots of debris, bank erosion

Inlet



Outlet



INLET

Inlet Shape/Type: Round Culvert/Projecting
Inlet Drop/Grade: Inlet Drop
Dimensions:
Width: 3, Height: 3
Substrate/Water Width: 0
Water Depth: 0

OUTLET

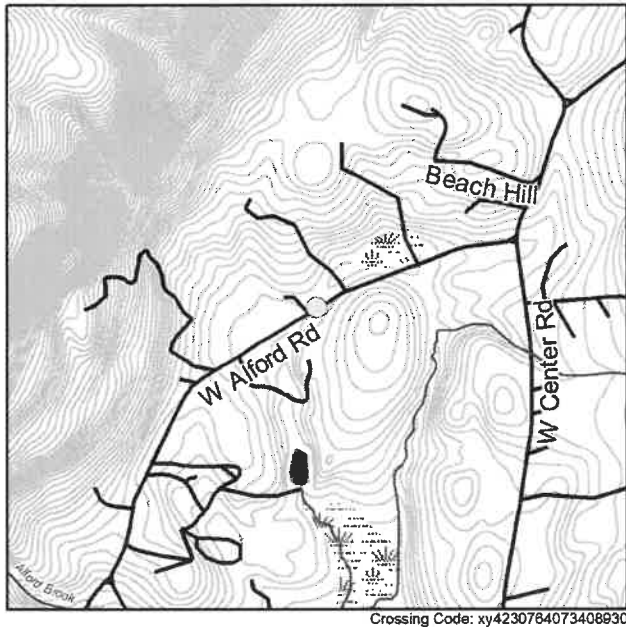
Outlet Shape: Round Culvert
Outlet Drop/Grade: Free Fall Onto Cascade
Drop to Stream Surface/Bottom: 0.0/1.0
Dimensions:
Width: 3.1, Height: 3.1
Substrate/Water Width: 0.0
Water Depth: 0.00

ADDITIONAL PHOTOS



Road: West Alford Road

Stream: Alford Brook



RESULTS

Barrier Evaluation: Significant barrier
Aquatic Organism Passage Score: 0.29
Town Comments on Flooding/Condition/
Maintenance: Beaver Issues - floods over the
road

Overall Ranking: Tier 2 (Ranked 2 of 45)

LOCATION

Coordinates: 42.307640, -73.408930

Location Description: Adjacent to 15 West Alford Road driveway

Date Observed: 2020-10-28

Crossing Code: xy4230764073408930

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Moderate

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

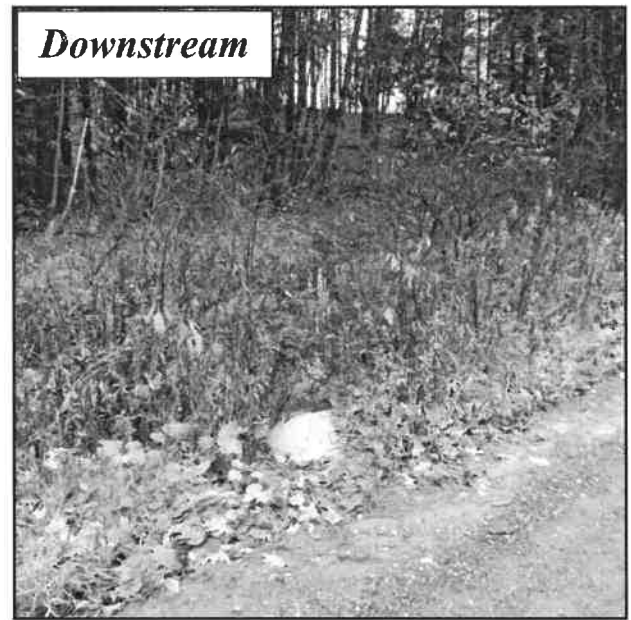
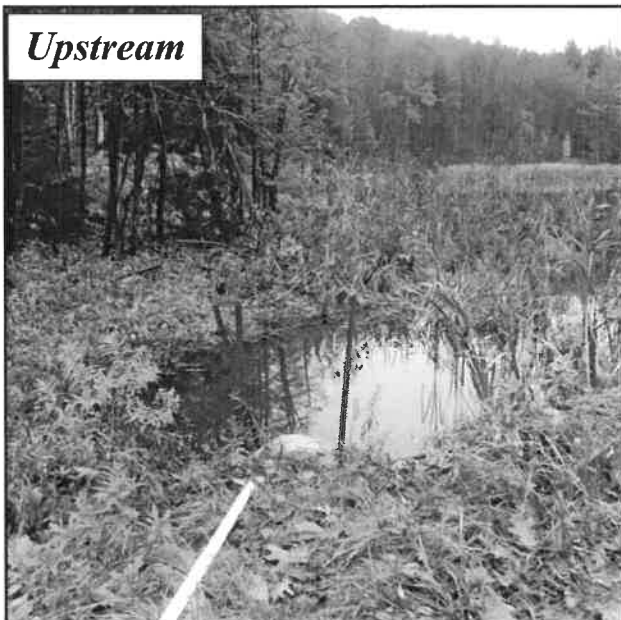
Scour Pool: None

Bankfull Width (feet): 100.0

Water Depth/Velocity Matches Stream: No-
Shallower/No-Faster

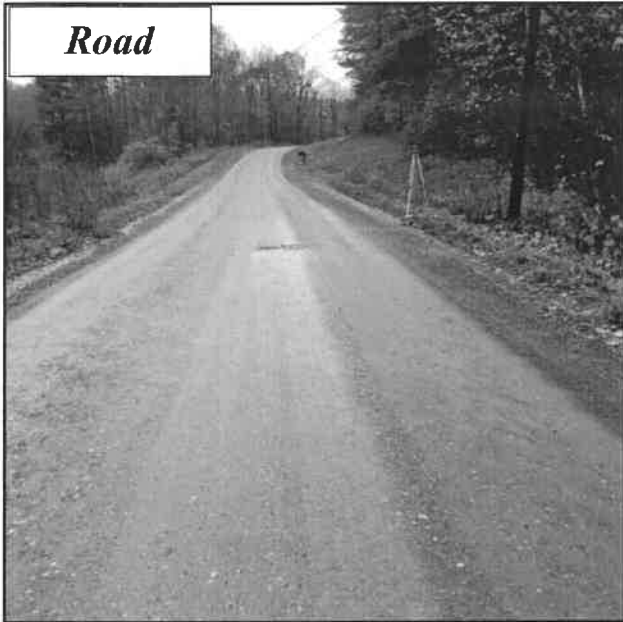
Structure Substrate Type: None

Structure Substrate Matches Stream? None



Crossing Comments: Beaver dam and impoundment upstream. Beaver dam and debris at inlet is creating inlet drop.

Road



ROAD

Road Type: Unpaved

Road Fill Height (feet): 0.5

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	20.99	2.69	1.99	No
5	22.91		2.35	No
10	24.08		2.59	No
25	25.43		2.87	Yes
50	26.36		3.08	Yes
100	27.23		3.28	Yes

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 40.5

Dry Passage/Height: No

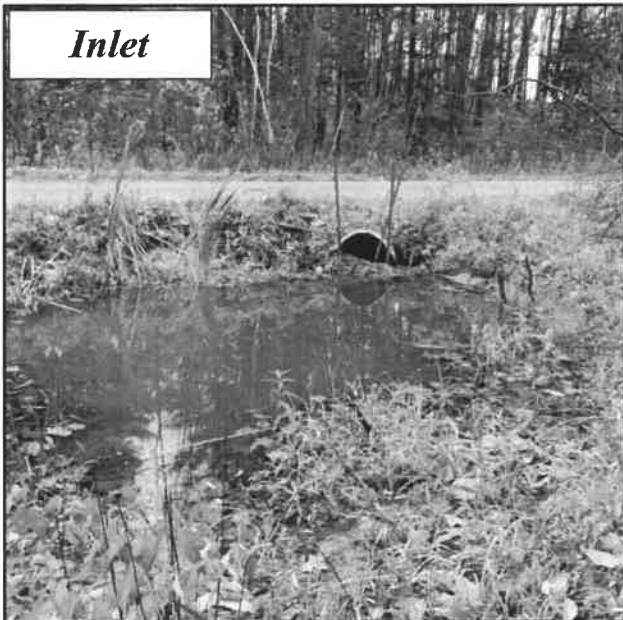
Outlet Armoring: None

Physical Barrier(s) (Severity): Debris/Sediment/
Rock (Severe)

Slope (%): 2

Structure Comments: 1.3 foot inlet drop

Inlet



INLET

Inlet Shape/Type: Round Culvert/Projecting

Inlet Drop/Grade: Inlet Drop

Dimensions:

Width: 2.5, Height: 2.5

Substrate/Water Width: 1

Water Depth: 0.1

Outlet



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: Free Fall

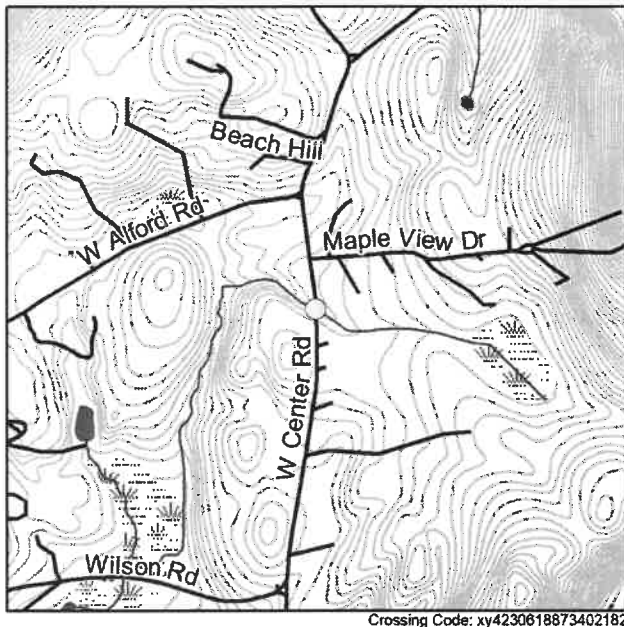
Drop to Stream Surface/Bottom: 0.5/0.6

Dimensions:

Width: 2.6, Height: 2.5

Substrate/Water Width: 0.9

Water Depth: 0.10



RESULTS

Barrier Evaluation: Moderate barrier

Aquatic Organism Passage Score: 0.5

Town Comments on Flooding/Condition/
Maintenance: No comment

Overall Ranking: Tier 10 (Ranked 25 of 45)

LOCATION

Coordinates: 42.306051, -73.401967

Location Description: By house number 137 and
telephone pole 72

Date Observed: 2019-06-07

Crossing Code: xy4230618873402182

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Severe

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

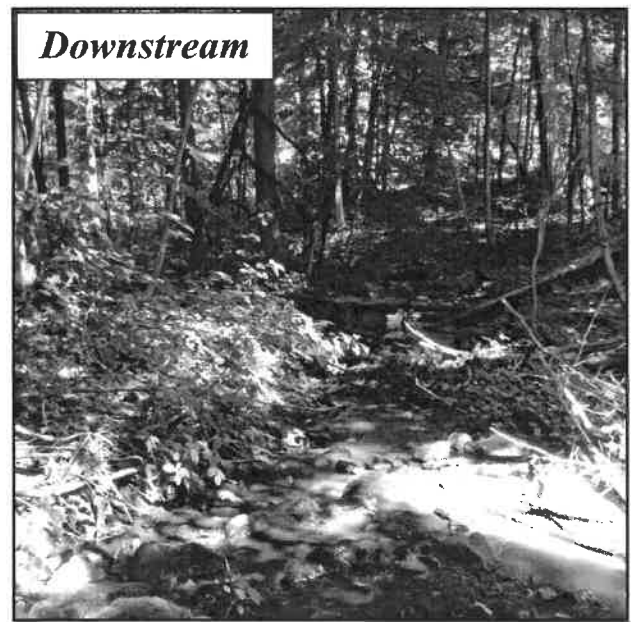
Scour Pool: Large

Bankfull Width (feet): 12.0

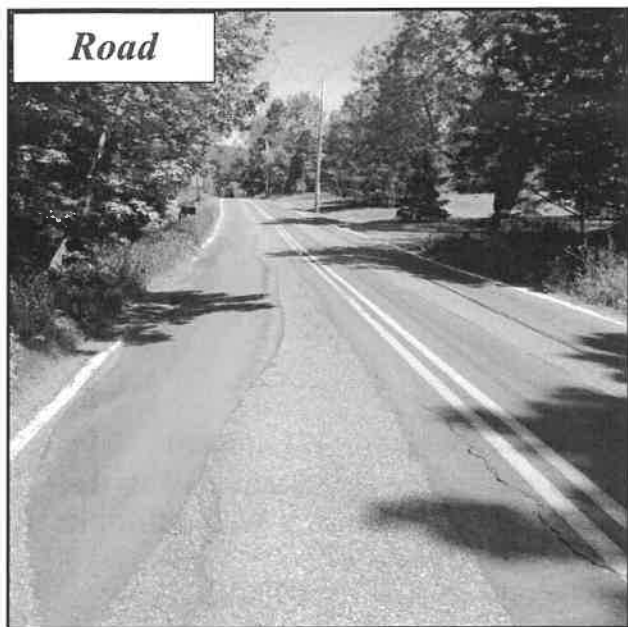
Water Depth/Velocity Matches Stream: No-
Shallower/Yes

Structure Substrate Type: None

Structure Substrate Matches Stream? None



Crossing Comments: No data

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): 5.65

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	26.65	8.65	1.57	No
5	30.71		2.03	No
10	33.25		2.36	No
25	36.25		2.77	No
50	38.35		3.09	No
100	40.34		3.4	No

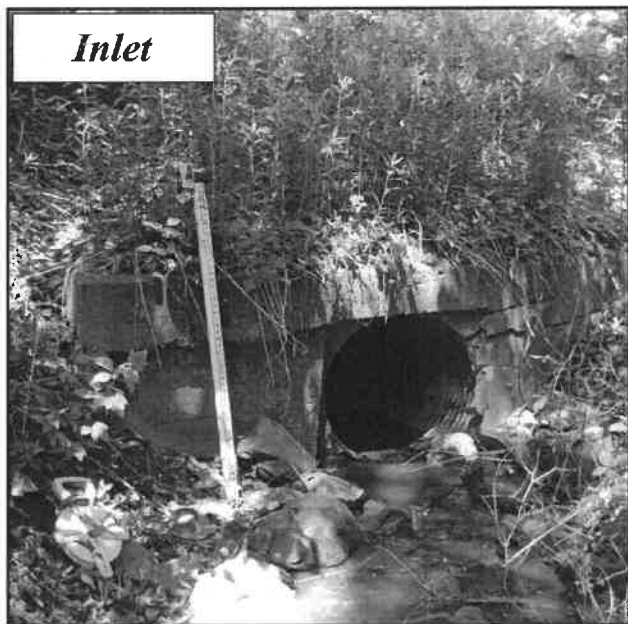
STRUCTURE 1 OF 1

Material: Combination
 Length (feet): 52
 Dry Passage/Height: No
 Outlet Armoring: None

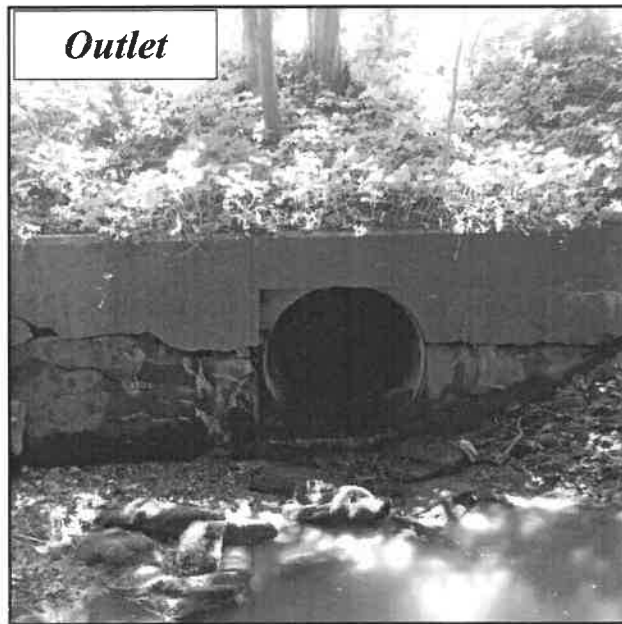
Physical Barrier(s) (Severity): None

Slope (%): 7

Structure Comments: Slightly set into headwall and
 sidewall on right side, mostly flush on left side

Inlet**INLET**

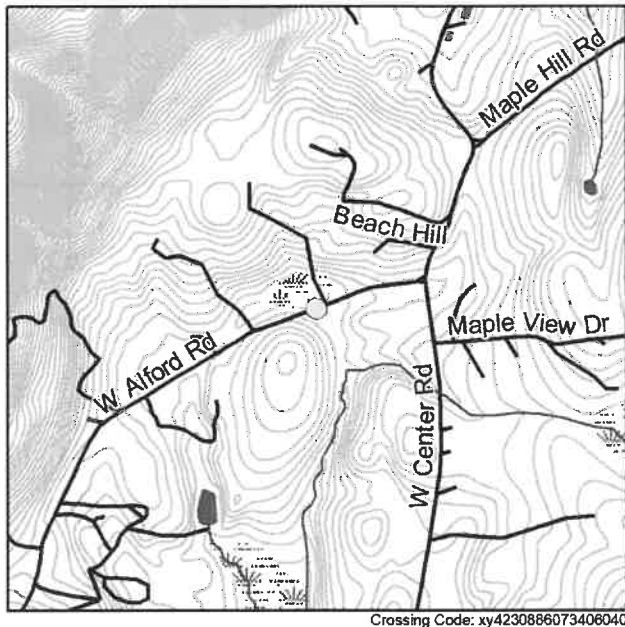
Inlet Shape/Type: Round Culvert/Headwall
 Inlet Drop/Grade: At Stream Grade
 Dimensions:
 Width: 3, Height: 3
 Substrate/Water Width: 1.3
 Water Depth: 0.2

Outlet**OUTLET**

Outlet Shape: Round Culvert
 Outlet Drop/Grade: Free Fall
 Drop to Stream Surface/Bottom: 0.4/0.7
 Dimensions:
 Width: 3.0, Height: 3.0
 Substrate/Water Width: 1.5
 Water Depth: 0.25

Road: West Alford Road

Stream: Alford Brook



RESULTS

Barrier Evaluation: Moderate barrier

Aquatic Organism Passage Score: 0.41

Town Comments on Flooding/Condition/
Maintenance: Beaver Issues - floods over the
road

Overall Ranking: Tier 7 (Ranked 13 of 45)

LOCATION

Coordinates: 42.308860, -73.406040

Location Description: Approximately 50 feet
east of private driveway for 9 West Alford Road.

Date Observed: 2020-10-28

Crossing Code: xy4230886073406040

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Moderate

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

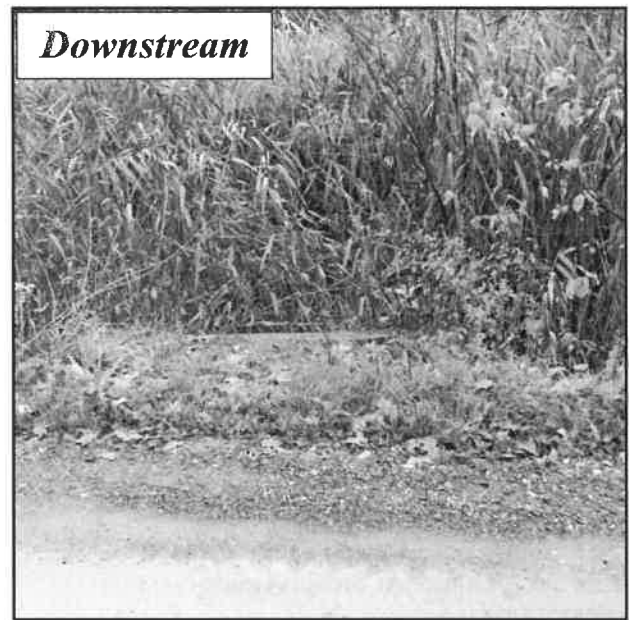
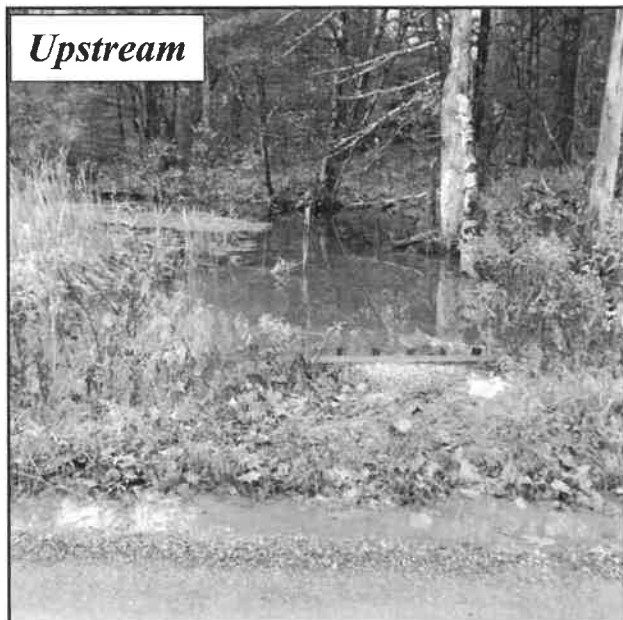
Scour Pool: Small

Bankfull Width (feet): 25.0

Water Depth/Velocity Matches Stream: No-
Shallower/No-Slower

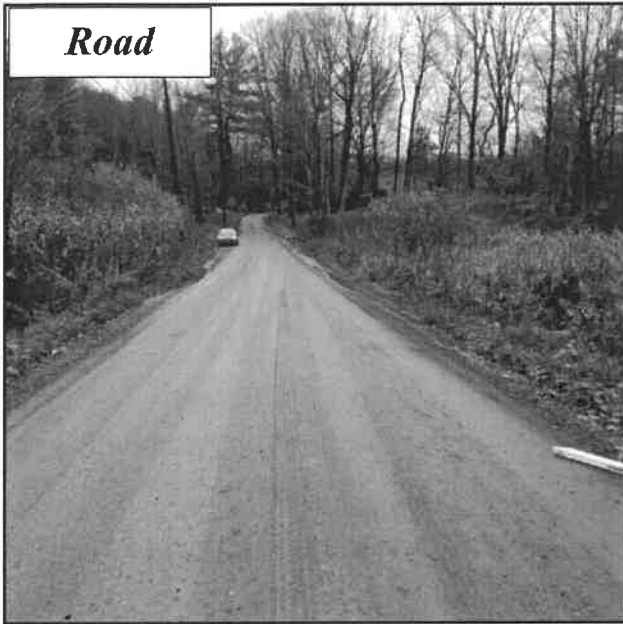
Structure Substrate Type: None

Structure Substrate Matches Stream? None



Crossing Comments: Sediment from storm water in inlet wetland area, beaver impoundment
up and downstream of the crossing

Road



ROAD

Road Type: Unpaved
Road Fill Height (feet): 0.7
Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	10.96	3.51	0.29	No
5	11.93		0.33	No
10	12.49		0.36	No
25	13.13		0.39	No
50	13.55		0.42	No
100	13.94		0.44	No

STRUCTURE 1 OF 1

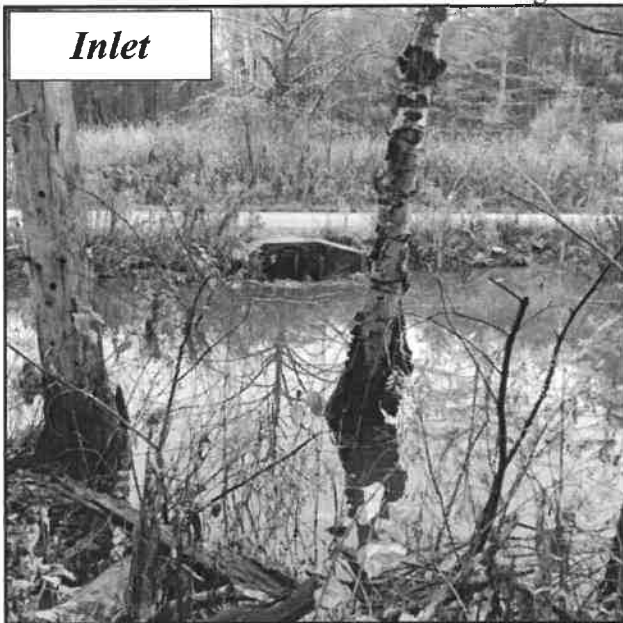
Material: Plastic
Length (feet): 31
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): Debris/Sediment/Rock/Fencing (Severe)

Slope (%): 3

Structure Comments: Stakes at inlet and outlet. Accumulation of debris against stakes is creating a 2 foot inlet drop and a severe physical barrier

Inlet



INLET

Inlet Shape/Type: Round Culvert/Headwall and Wingwalls

Inlet Drop/Grade: Inlet Drop

Dimensions:

Width: 3, Height: 2.8

Substrate/Water Width: 1.4

Water Depth: 0.05

Outlet



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

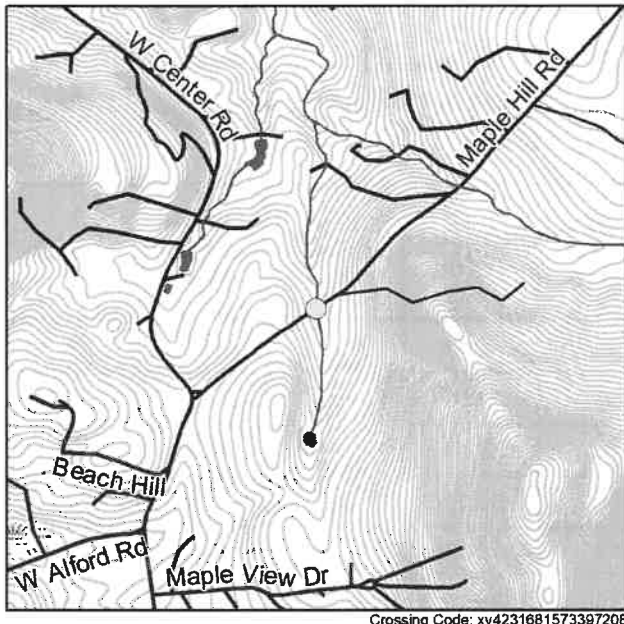
Width: 3.0, Height: 3.0

Substrate/Water Width: 1.8

Water Depth: 0.20

Road: Maple Hill Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Moderate barrier

Aquatic Organism Passage Score: 0.55

Town Comments on Flooding/Condition/
Maintenance: No comment

Overall Ranking: Tier 10 (Ranked 25 of 45)

LOCATION

Coordinates: 42.317020, -73.397030

Location Description: Just before telephone pole
MECO 8

Date Observed: 2020-06-15

Crossing Code: xy4231681573397208

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Severe

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

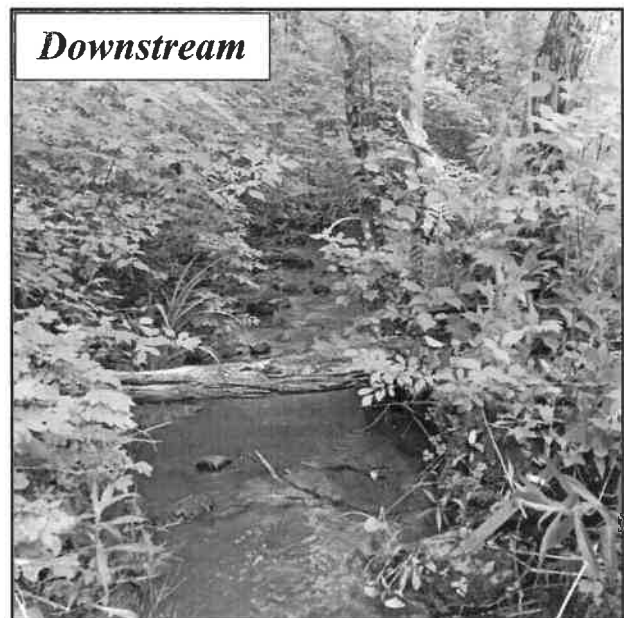
Scour Pool: None

Bankfull Width (feet): 7.0

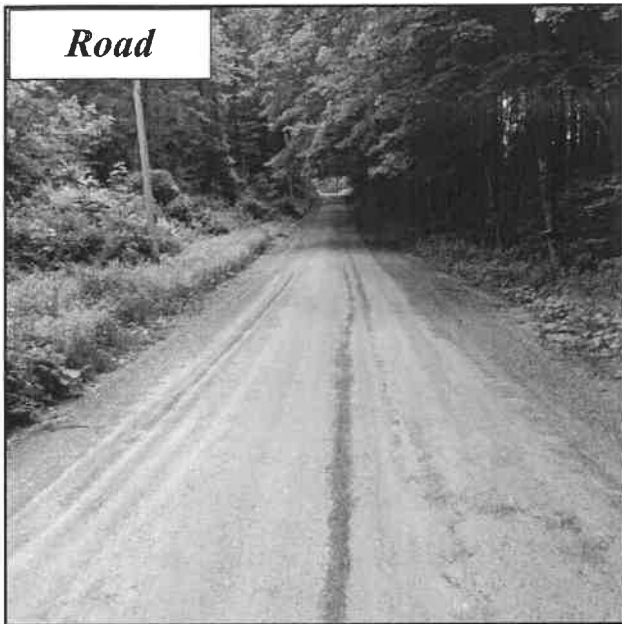
Water Depth/Velocity Matches Stream: Yes/Yes

Structure Substrate Type: None

Structure Substrate Matches Stream? None



Crossing Comments: Pipe is rotting in multiple locations



ROAD

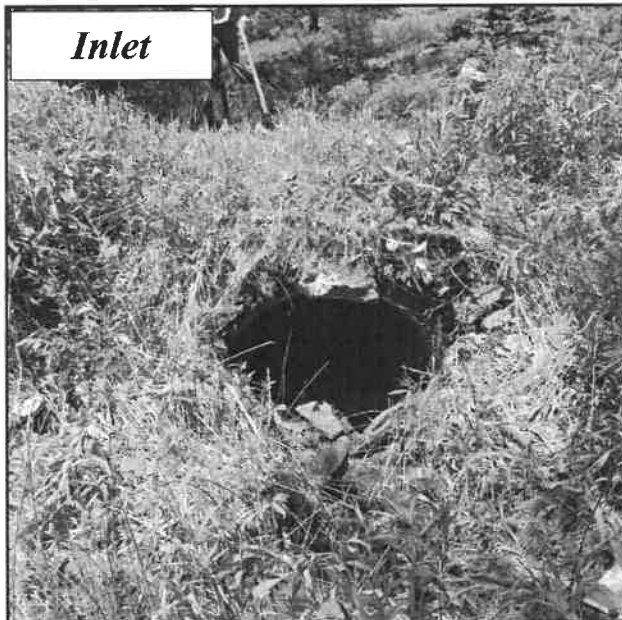
Road Type: Unpaved
Road Fill Height (feet): 2
Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	18.18	6.25	1.41	No
5	20.37		1.75	No
10	21.69		1.98	No
25	23.23		2.26	No
50	24.27		2.46	No
100	25.25		2.66	No

STRUCTURE 1 OF 1

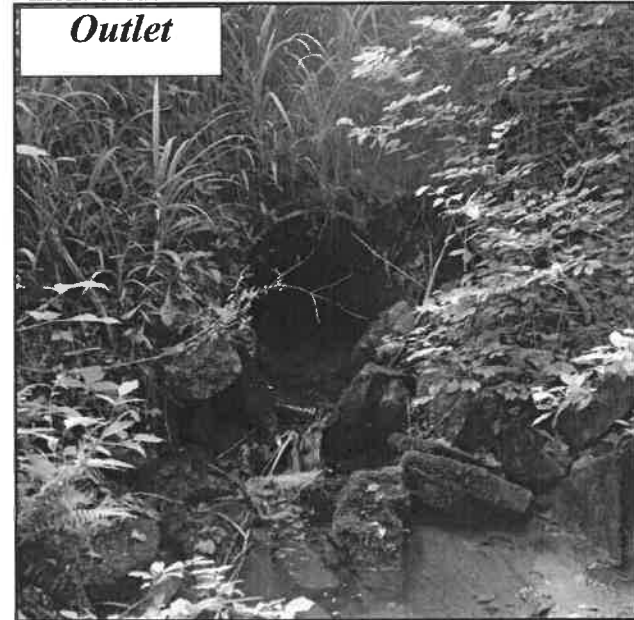
Material: Metal
Length (feet): 27
Dry Passage/Height: No
Outlet Armoring: Not Extensive

Physical Barrier(s) (Severity): None
Slope (%): 4
Structure Comments: Upstream is inaccessible due to very thick vegetation. 0.7 foot inlet drop. Road sediment evident in stream



INLET

Inlet Shape/Type: Round Culvert/Wingwalls
Inlet Drop/Grade: Inlet Drop
Dimensions:
Width: 2.5, Height: 2.3
Substrate/Water Width: 1.1
Water Depth: 0.2



OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: Cascade
Drop to Stream Surface/Bottom: 0.4/1.1
Dimensions:
Width: 2.5, Height: 2.5
Substrate/Water Width: 1.7
Water Depth: 0.30

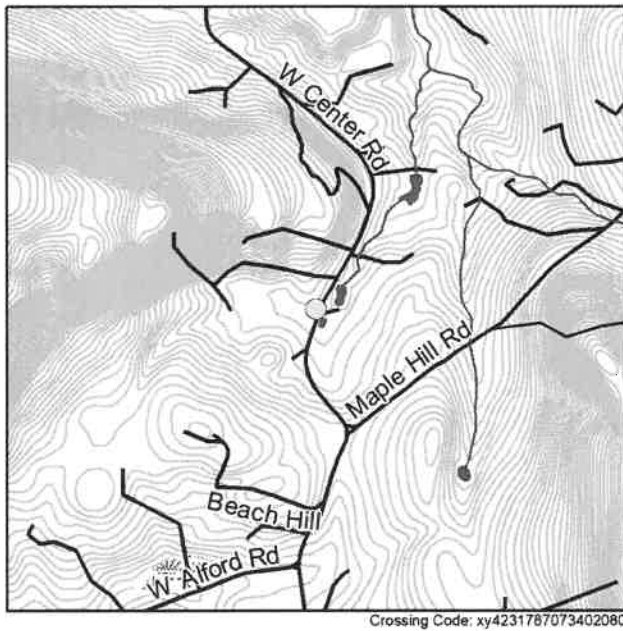
ADDITIONAL PHOTOS

Other 1



Other 2





RESULTS

Barrier Evaluation: Minor barrier
Aquatic Organism Passage Score: 0.7
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.317870, -73.402080
Location Description: About 100 feet north of 96
West Center Road and 1500 feet north of inter-
section with Maple Hill Road
Date Observed: 2020-07-09
Crossing Code: xy4231787073402080

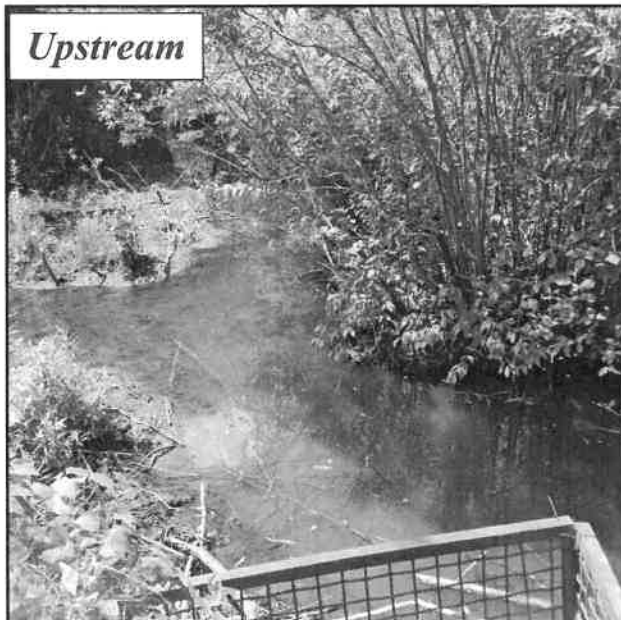
STREAM AND CROSSING

CROSSING CHARACTERISTICS

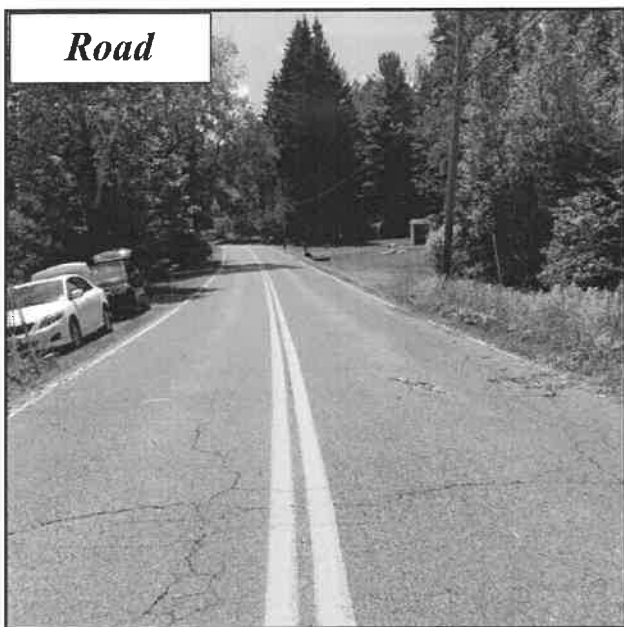
Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 50.0
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: Silt
Structure Substrate Matches Stream? Compara-
ble



Crossing Comments: Deep water at inlet made it difficult to get inlet photo.

Road

ROAD

Road Type: Paved

Road Fill Height (feet): 3

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	38.72	5.51	1.58	No
5	43.47		1.79	No
10	46.38		1.92	No
25	49.78		2.08	No
50	52.14		2.19	No
100	54.36		2.3	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 37.5

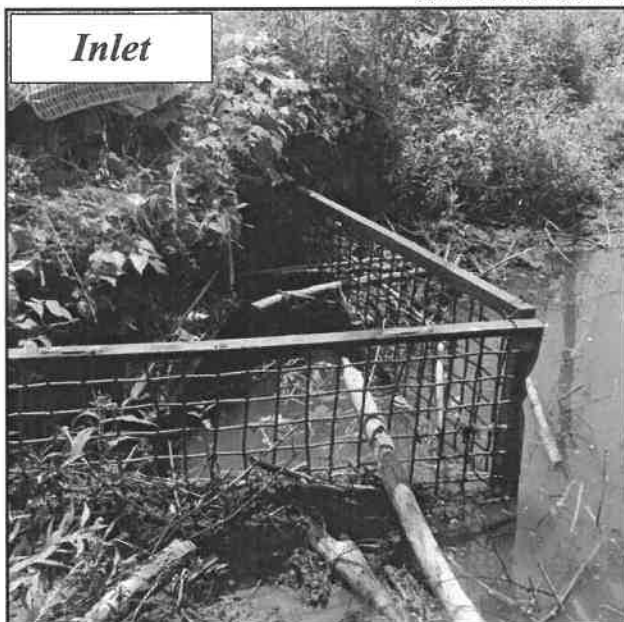
Dry Passage/Height: No

Outlet Armoring: None

Physical Barrier(s) (Severity): Debris/Sediment/Rock, Deformation, Fencing (Severe)

Slope (%): 1

Structure Comments: Inlet is deformed and broken, inlet width is averaged. The crossing banks are covered in poison ivy and inlet side has deep thick mud so it is difficult to photo.

Inlet

INLET

Inlet Shape/Type: Round Culvert/Headwall

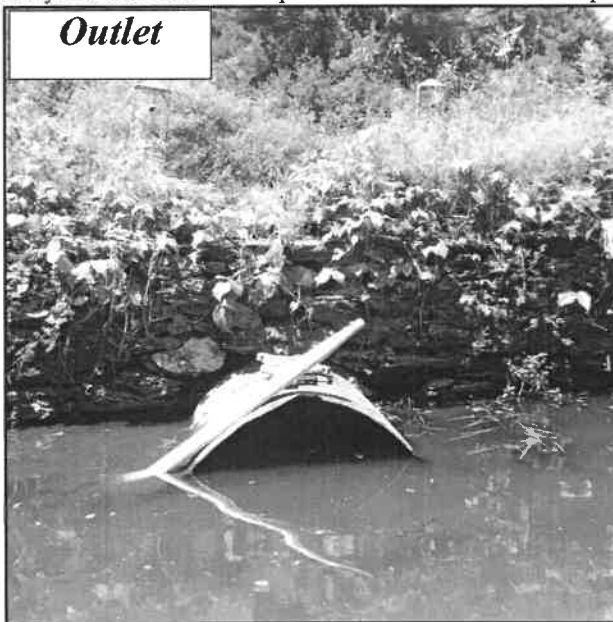
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 2.5, Height: 2.7

Substrate/Water Width: 1.6

Water Depth: 2.1

Outlet

OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 3.0, Height: 3.1

Substrate/Water Width: 3.0

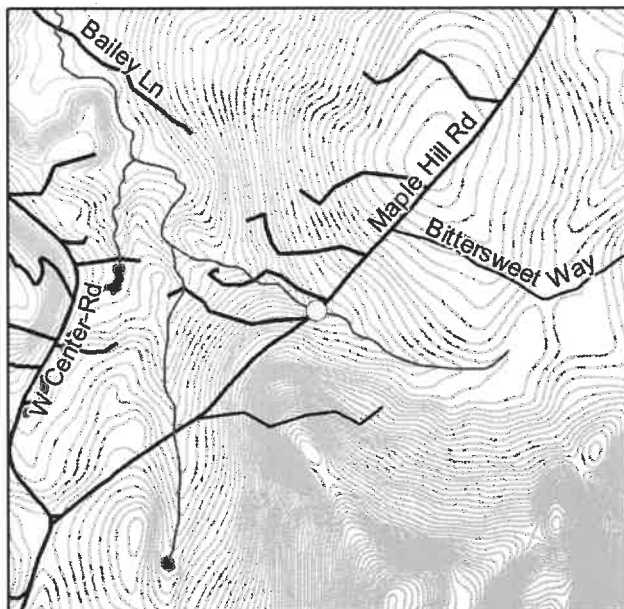
Water Depth: 2.30

ADDITIONAL PHOTO



Road: Maple Hill Road

Stream: Unnamed



Crossing Code: xy4232063473392685

RESULTS

Barrier Evaluation: Severe barrier
Aquatic Organism Passage Score: 0
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 2 (Ranked 2 of 45)

LOCATION

Coordinates: 42.320850, -73.392620
Location Description: By telephone pole 1175
meco 18, just passed 58 Maple Hill Road
Date Observed: 2020-06-11
Crossing Code: xy4232063473392685

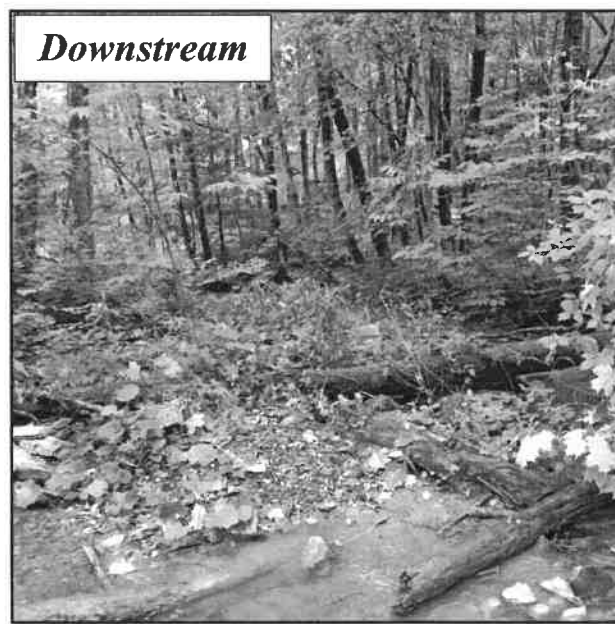
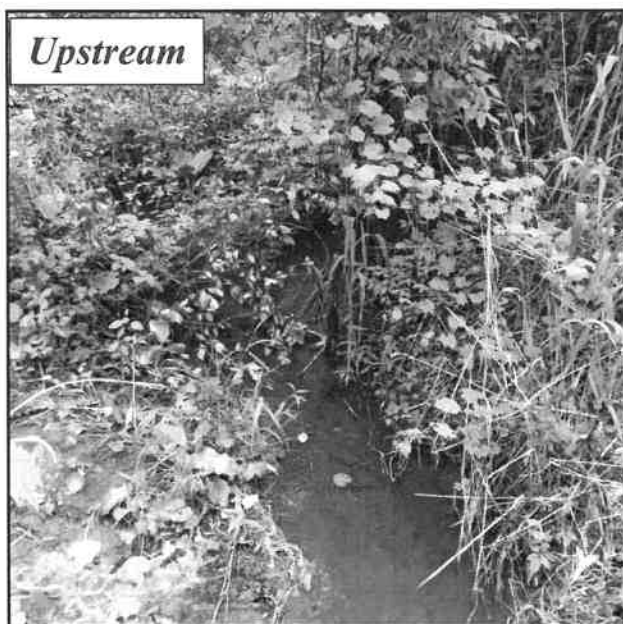
STREAM AND CROSSING

CROSSING CHARACTERISTICS

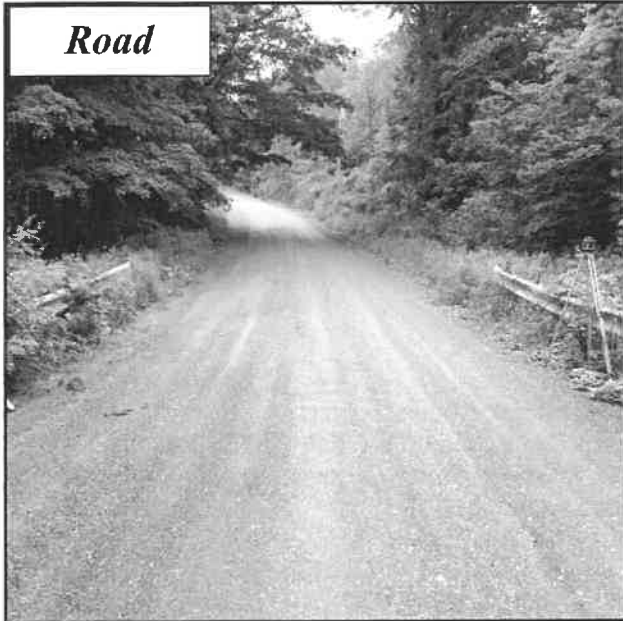
Crossing Type: Multiple Culvert
Number of structures/cells: 2
Condition: Poor
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: Small
Bankfull Width (feet): 8.0
Water Depth/Velocity Matches Stream: No-
Shallower/Yes
Structure Substrate Type: None
Structure Substrate Matches Stream? None



Crossing Comments: Road sediment is being washed into stream at both inlet and outlet

Road

ROAD

Road Type: Unpaved

Road Fill Height (feet): 2

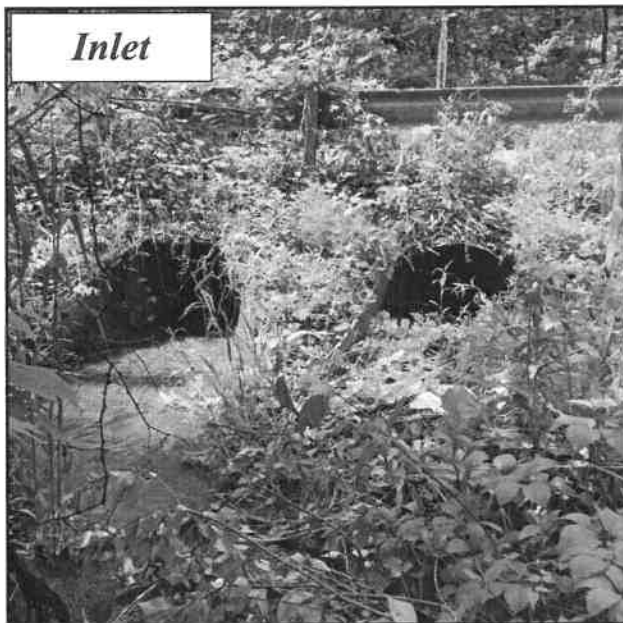
Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	29.16	4.95	1.78	No
5	32.68		2.22	No
10	34.81		2.51	No
25	37.28		2.86	No
50	38.97		3.12	No
100	40.56		3.37	No

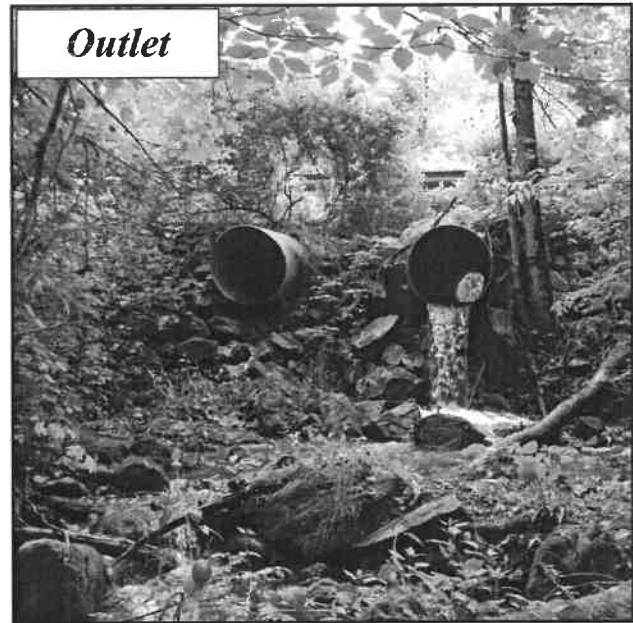
STRUCTURE 1 OF 2

Material: Metal
Length (feet): 39.6
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): None
Slope (%): 4
Structure Comments: No data

Inlet

INLET

Inlet Shape/Type: Round Culvert/Wingwalls
Inlet Drop/Grade: At Stream Grade
Dimensions:
Width: 3, Height: 3
Substrate/Water Width: 2
Water Depth: 0.45

Outlet

OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: Free Fall
Drop to Stream Surface/Bottom: 3.5/4.0
Dimensions:
Width: 3.0, Height: 3.0
Substrate/Water Width: 1.6
Water Depth: 0.30

STRUCTURE 2 OF 2

Material: Metal
Length (feet): 39.6
Dry Passage/Height (feet): No

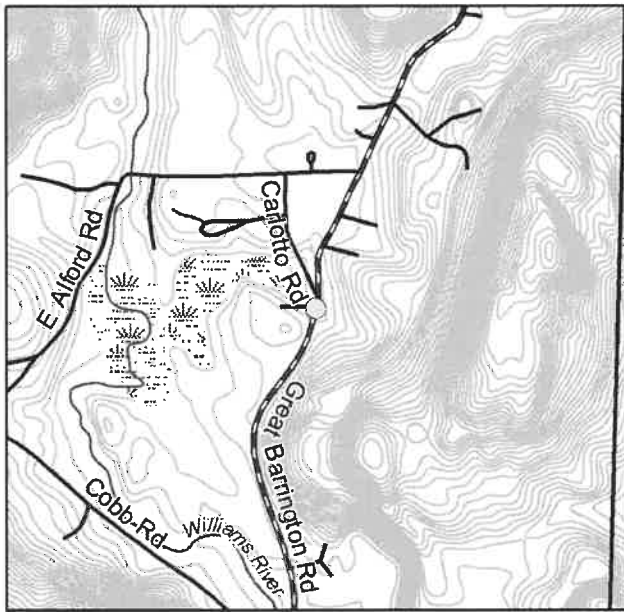
Physical Barrier(s)/Severity: Dry (Severe)
Slope (%): 6
Structure Comments: Storm water is bringing a lot of road material into stream mostly at entrance and inside culvert

INLET

Inlet Shape/Type: Round Culvert/Wingwalls
Inlet Drop/Grade: At Stream Grade
Dimensions (feet):
 Width: 3, Height: 3
 Substrate/Water Width: 0
 Water Depth: 0

OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: Free Fall Onto Cascade
Drop to Stream Surface/Bottom (feet): 3.5/4
Dimensions (feet):
 Width: 3, Height: 3
 Substrate/Water Width: 0.4
 Water Depth: 0.01



RESULTS

Barrier Evaluation: Insignificant barrier

Aquatic Organism Passage Score: 0.83

Town Comments on Flooding/Condition/

Maintenance: No comment

Overall Ranking: Tier 8 (Ranked 18 of 45)

LOCATION

Coordinates: 42.298200, -73.374840

Location Description: 100 feet south of the intersection of Carlotto Road and Great Barrington Road. Crossing goes under a pull off area parallel to the road

Date Observed: 2020-07-16

Crossing Code: xy4229820073374840

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Moderate

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None

Bankfull Width (feet): 3.5

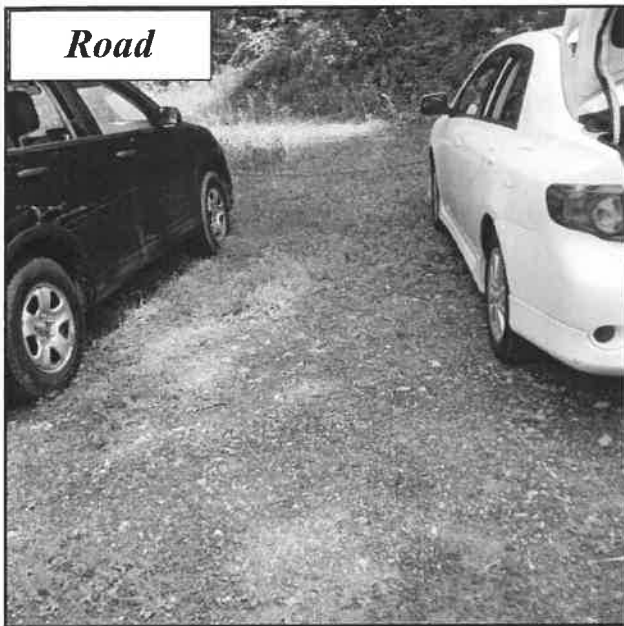
Water Depth/Velocity Matches Stream: Dry/Dry

Structure Substrate Type: Gravel

Structure Substrate Matches Stream? Comparable



Crossing Comments: No data



ROAD

Road Type: Paved

Road Fill Height (feet): 0.39

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	9.24	1.89	1.47	No
5	10.3		1.82	No
10	10.94		2.06	Yes
25	11.68		2.35	Yes
50	12.19		2.55	Yes
100	12.66		2.76	Yes

STRUCTURE 1 OF 1

Material: Concrete

Length (feet): 32.2

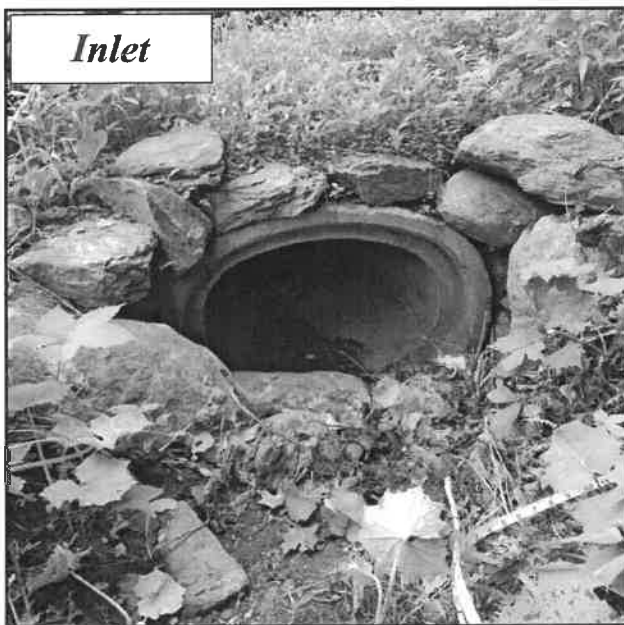
Dry Passage/Height: Yes (1.5)

Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): 0

Structure Comments: No data



INLET

Inlet Shape/Type: Pipe Arch/Elliptical Culvert/
Headwall and Wingwalls

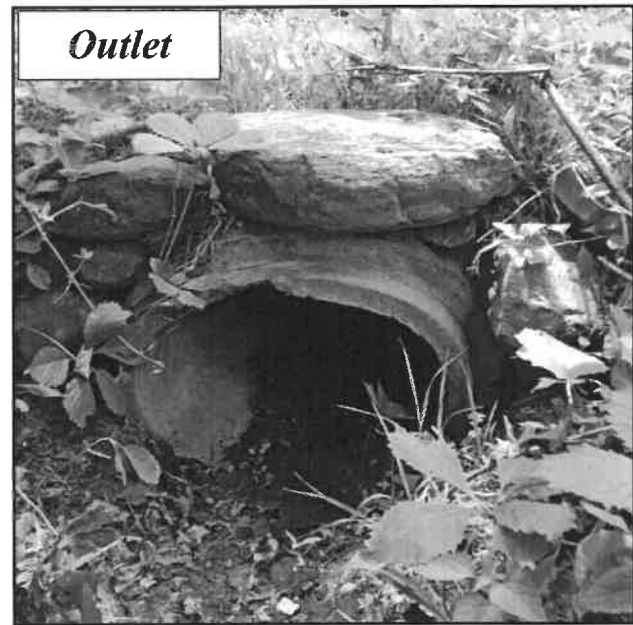
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 2, Height: 1.5

Substrate/Water Width: 0

Water Depth: 0



OUTLET

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

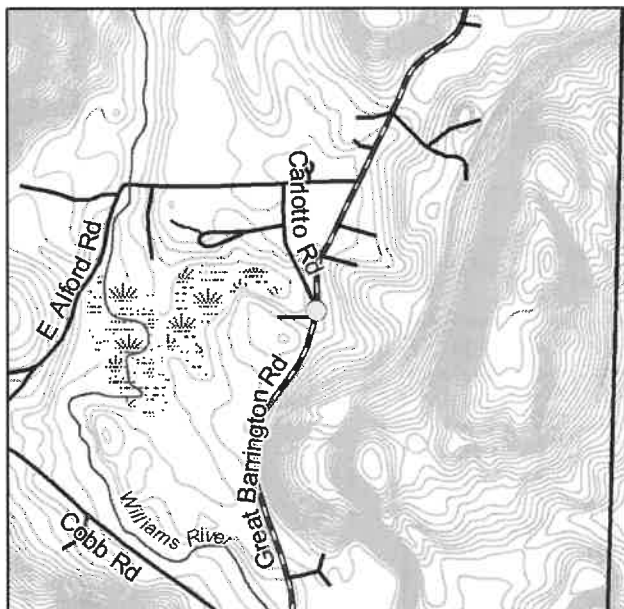
Width: 2.0, Height: 1.3

Substrate/Water Width: 0.0

Water Depth: 0.00

Road: Great Barrington Road

Stream: Unnamed



Crossing Code: xy4229845073374780

RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 10 (Ranked 25 of 45)

LOCATION

Coordinates: 42.298450, -73.374780
Location Description: Outlet is five feet south of
Carlotta Road where it intersects with Great Bar-
rington Road.
Date Observed: 2020-07-16
Crossing Code: xy4229845073374780

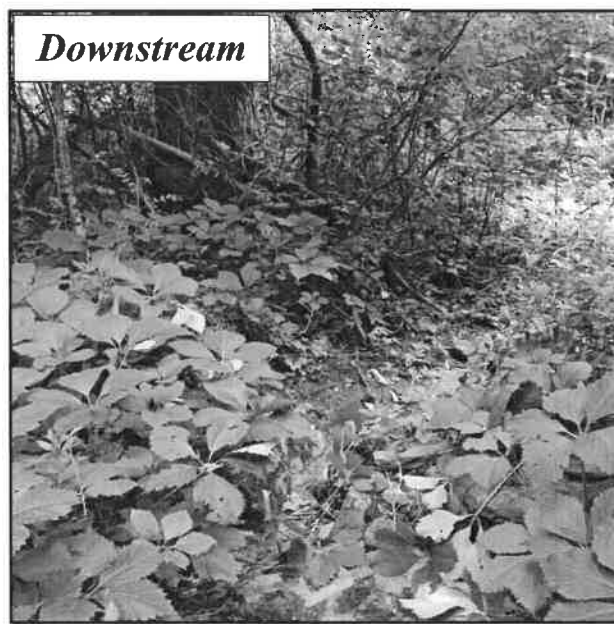
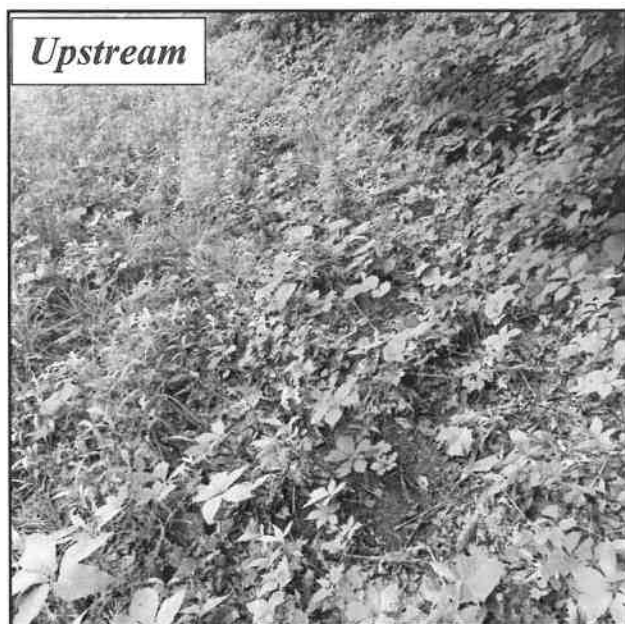
STREAM AND CROSSING

CROSSING CHARACTERISTICS

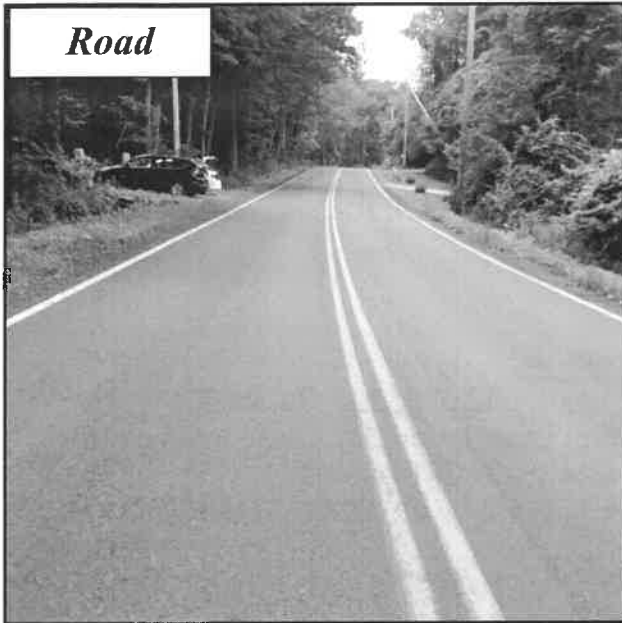
Crossing Type: Partially Inaccessible
Number of structures/cells: 1
Condition: OK
Constriction: Moderate
Alignment: Skewed ($>45^\circ$)
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 3.0
Water Depth/Velocity Matches Stream: Dry/Dry
Structure Substrate Type: None
Structure Substrate Matches Stream? None



Crossing Comments: Inlet is buried under a grate



ROAD

Road Type: Paved

Road Fill Height (feet): No data

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	9.24	No data		
5	10.3			
10	10.94			
25	11.68			
50	12.19			
100	12.66			

STRUCTURE 1 OF 1

Material: Concrete

Length (feet): 45.8

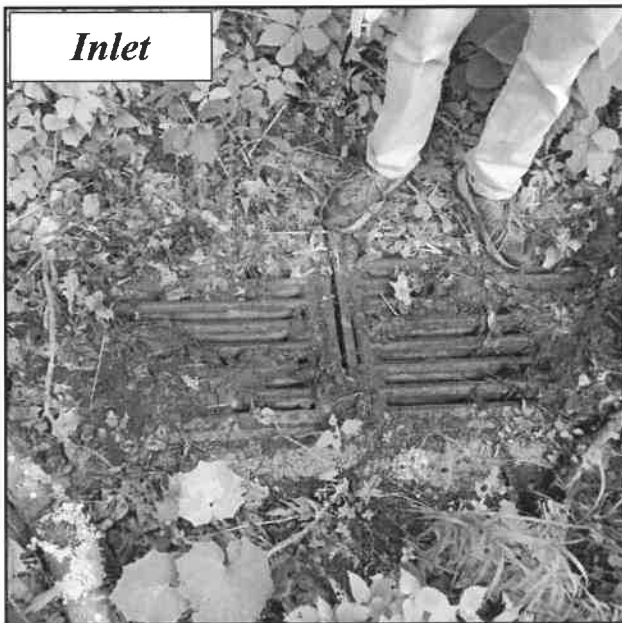
Dry Passage/Height: Yes (1.6)

Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: No data



INLET

Inlet Shape/Type: /

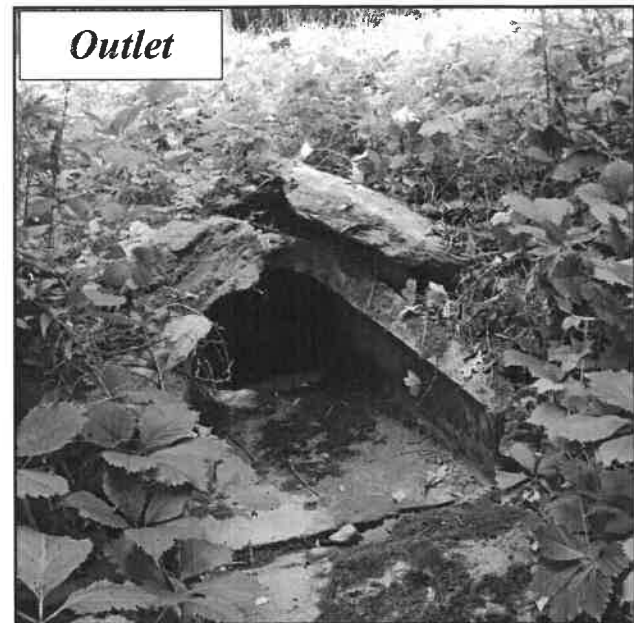
Inlet Drop/Grade:

Dimensions:

Width: No data, Height: No data

Substrate/Water Width: No data

Water Depth: No data



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

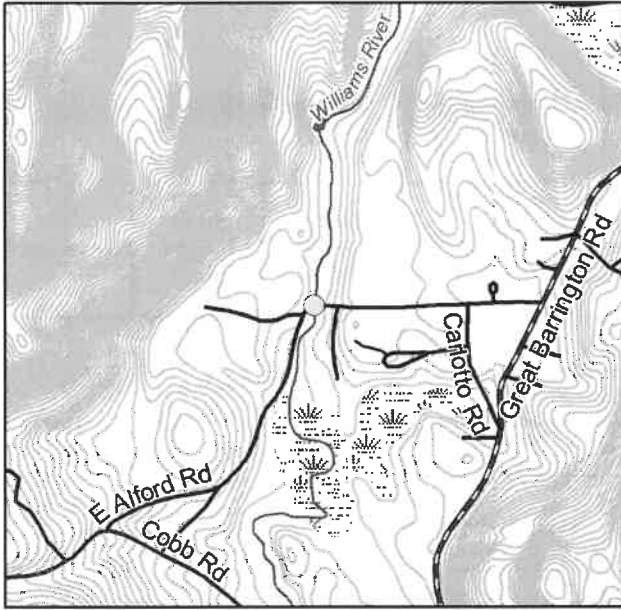
Width: 1.6, Height: 1.6

Substrate/Water Width: 0.0

Water Depth: 0.00

Road: East Alford Road

Stream: Williams River



RESULTS

Barrier Evaluation: Insignificant barrier
Aquatic Organism Passage Score: 0.95
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Not ranked

LOCATION

Coordinates: 42.302520, -73.380550
Location Description: By house number 18
Date Observed: 2019-06-07
Crossing Code: xy4230244773380660

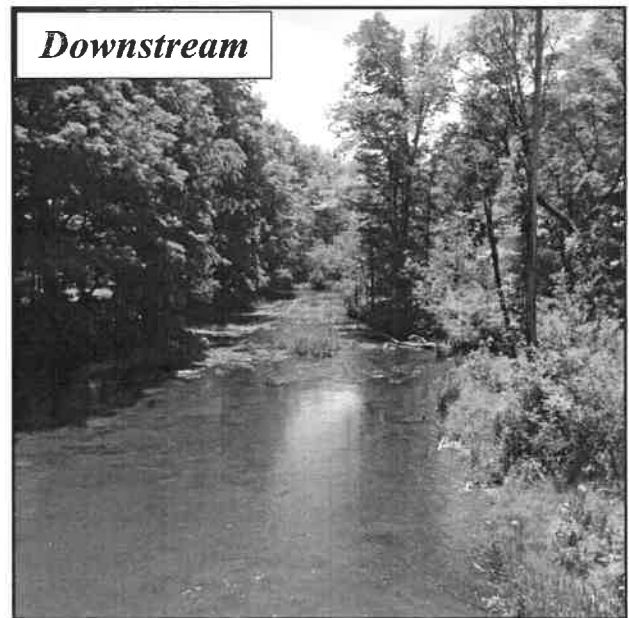
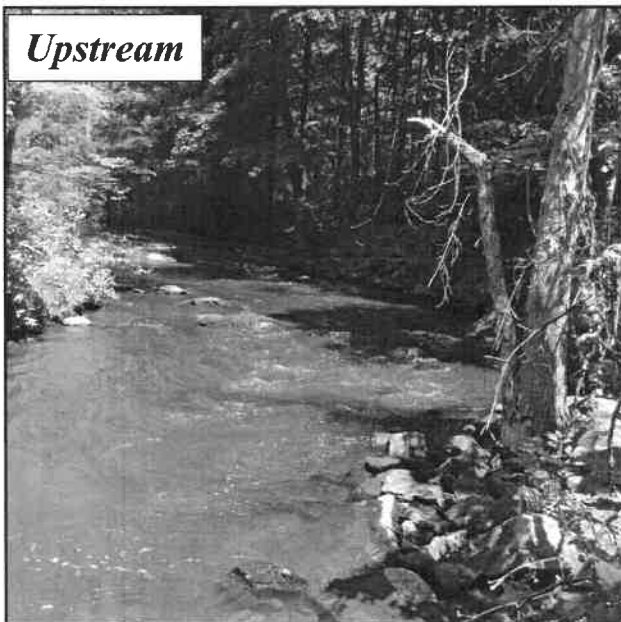
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Bridge
Number of structures/cells: 1
Condition: OK
Constriction: Spans Only Bankfull/Active Channel
Alignment: Flow-Aligned
Internal Features/Structures: None

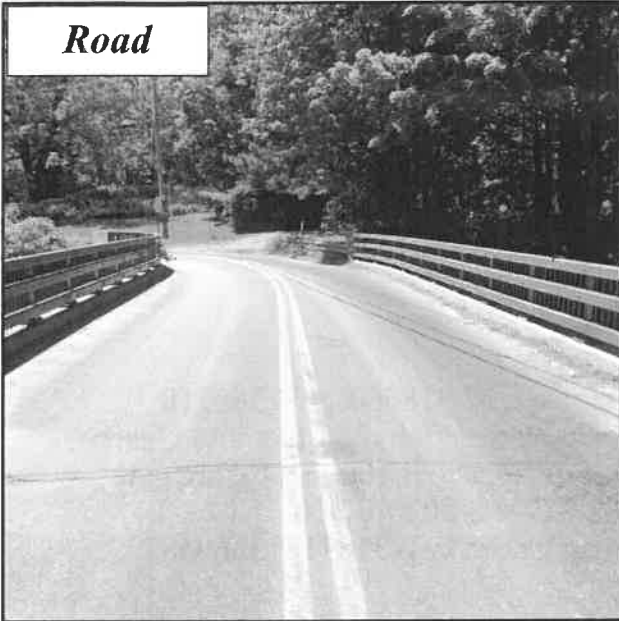
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 50.0
Water Depth/Velocity Matches Stream: No-
Deeper/Yes
Structure Substrate Type: Cobble
Structure Substrate Matches Stream? Comparable



Crossing Comments: Bridge built 1996

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 0

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	3081.02	No data		
5	3469.5			
10	3715.04			
25	4008.06			
50	4214.68			
100	4412.99			

STRUCTURE 1 OF 1

Material: Concrete

Length (feet): 21

Dry Passage/Height: Yes (2.8)

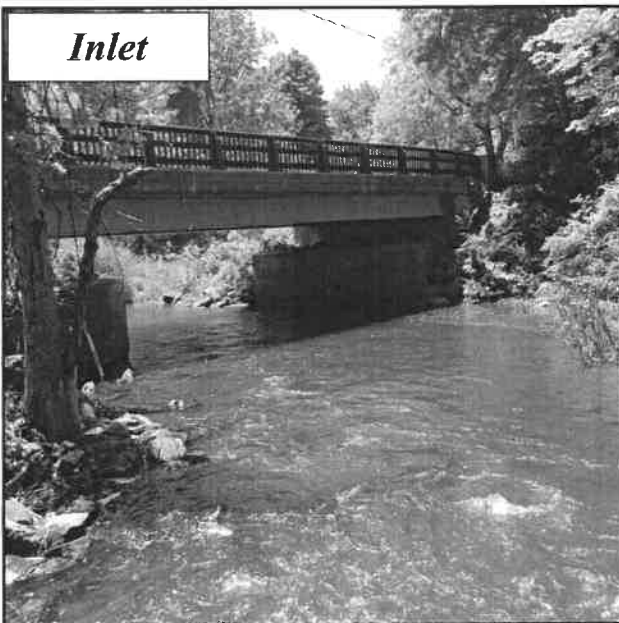
Outlet Armoring: None

Physical Barrier(s) (Severity): None

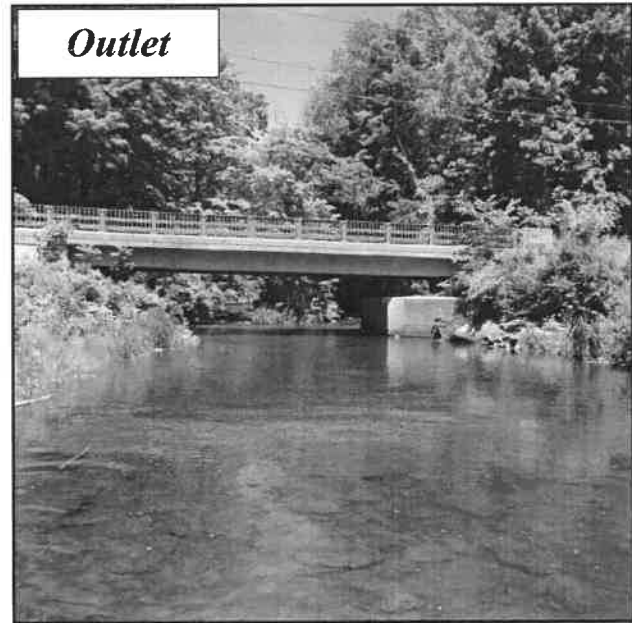
Slope (%): No data

Structure Comments: No data

Inlet



Outlet



INLET

Inlet Shape/Type: Box/Bridge with Abutments/
Headwall and Wingwalls

Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 53, Height: 12.4

Substrate/Water Width: 32

Water Depth: 4.5

OUTLET

Outlet Shape: Box/Bridge with Abutments

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

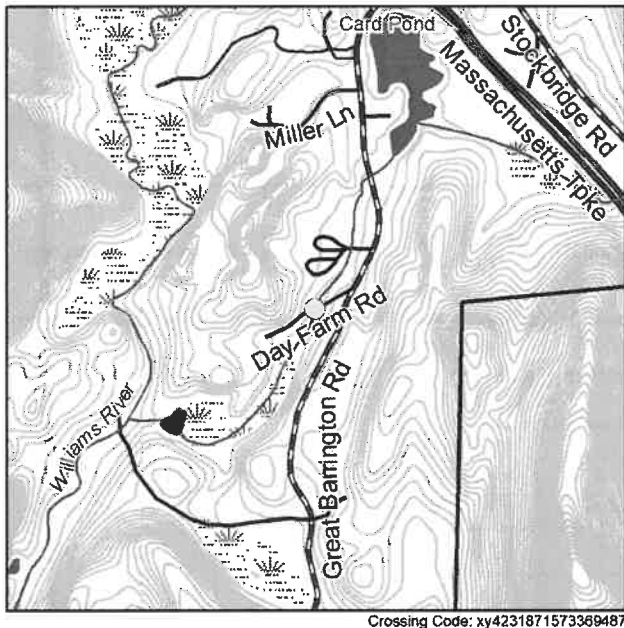
Width: 53.0, Height: 11.5

Substrate/Water Width: 30.0

Water Depth: 4.00

Road: Quarry Road

Stream: Unnamed



RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 7 (Ranked 13 of 45)

LOCATION

Coordinates: 42.318660, -73.369510
Location Description: 200 feet into Quarry
Road, private, about 100 feet before gate
Date Observed: 2020-07-10
Crossing Code: xy4231871573369487

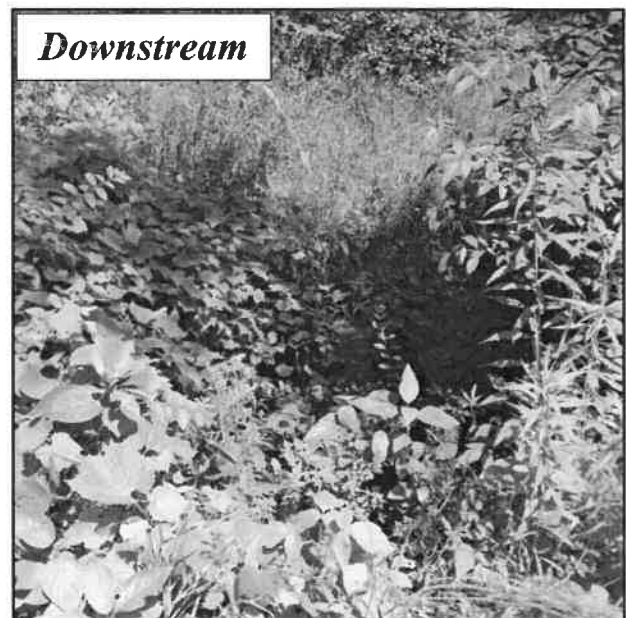
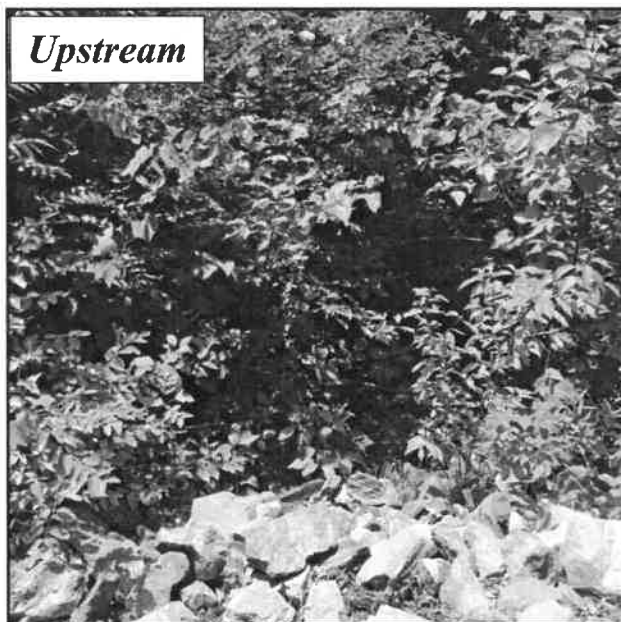
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Partially Inaccessible
Number of structures/cells: 1
Condition: Poor
Constriction: Unknown
Alignment: Flow-Aligned
Internal Features/Structures: Other

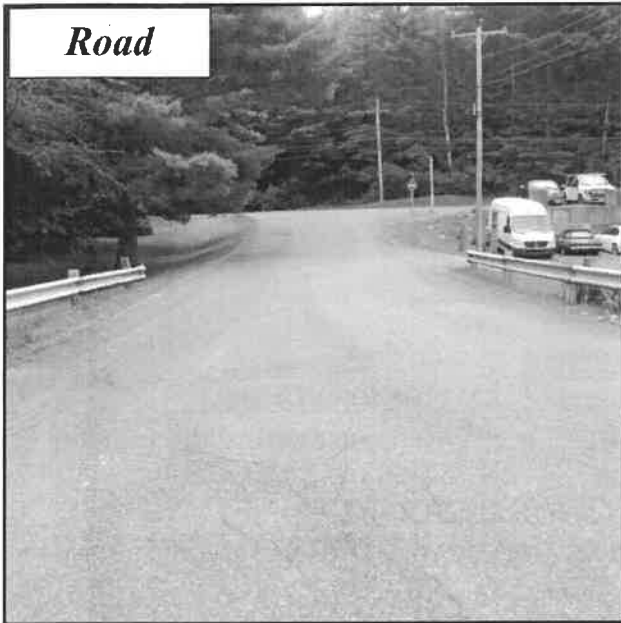
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 0.0
Water Depth/Velocity Matches Stream: Dry/Dry
Structure Substrate Type: Other (Describe in
comments section)
Structure Substrate Matches Stream? Unknown



Crossing Comments: Inlet pipe is not visible possibly buried under rip rap. Road fill estimated

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 3

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	91.37	No data		
5	103.58			
10	111.07			
25	119.85			
50	125.93			
100	131.66			

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 40

Dry Passage/Height: No

Outlet Armoring: None

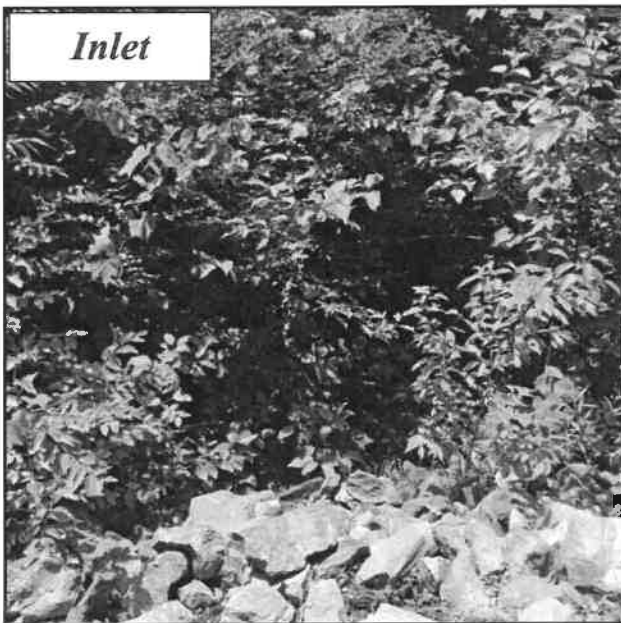
Physical Barrier(s) (Severity): Dry (Severe)

Slope (%): No data

Structure Comments: Inlet pipe not found - maybe buried under rip rap.

Structure length estimated. Substrate coverage evident at outlet but it is unknown how far it extends and if it continues to be the same as streambed

Inlet



Outlet



INLET

Inlet Shape/Type: Unknown/Other (Describe in comments section)

Inlet Drop/Grade: Clogged/Collapsed/Submerged

Dimensions:

Width: No data, Height: No data

Substrate/Water Width: No data

Water Depth: No data

OUTLET

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

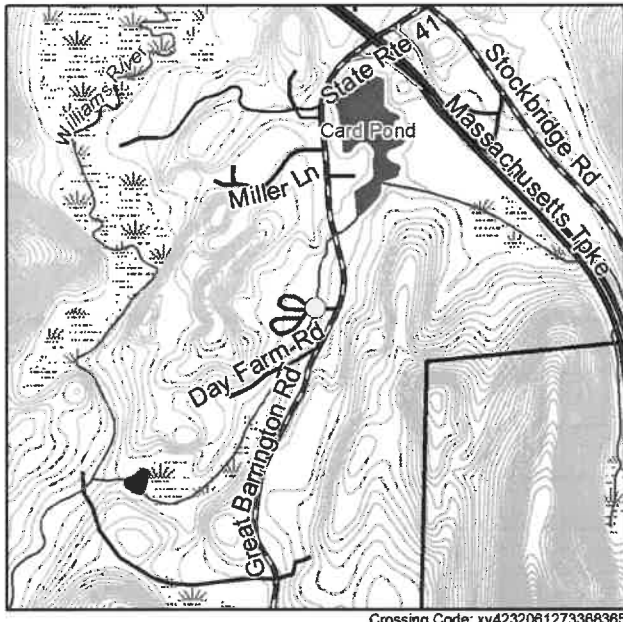
Width: 2.1, Height: 1.0

Substrate/Water Width: 0.0

Water Depth: 0.00

Road: Day Farm Road

Stream: Unnamed



RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 8 (Ranked 18 of 45)

LOCATION

Coordinates: 42.320640, -73.368490
Location Description: Just before the transfer
station
Date Observed: 2020-07-10
Crossing Code: xy4232061273368365

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert
Number of structures/cells: 1
Condition: Poor
Constriction: Unknown
Alignment: Flow-Aligned
Internal Features/Structures: Other

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 0.0
Water Depth/Velocity Matches Stream: Dry/Dry
Structure Substrate Type: Other (Describe in
comments section)
Structure Substrate Matches Stream? Unknown



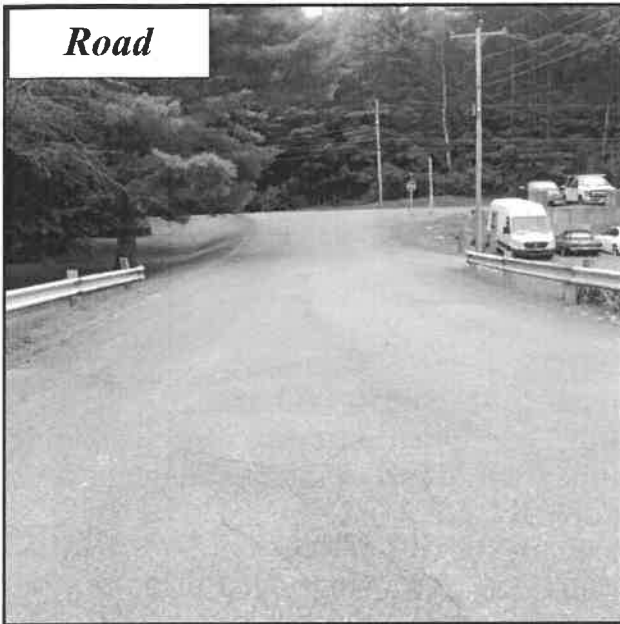
Upstream



Downstream

Crossing Comments: One side of pipe completely buried, possibly outlet The side measured had very thick vegetation and upstream was difficult to access.

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 3

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	86.15	No data		
5	97.48			
10	104.39			
25	112.46			
50	118.01			
100	123.23			

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 45

Dry Passage/Height: No

Outlet Armoring: None

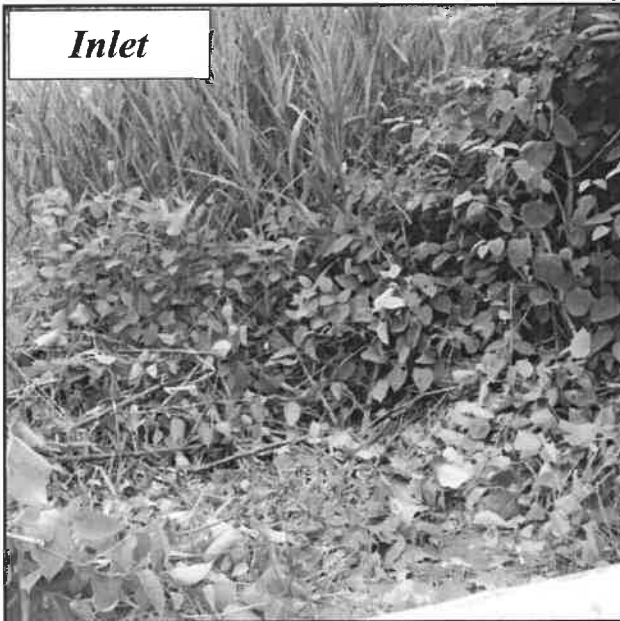
Physical Barrier(s) (Severity): Dry (Severe)

Slope (%): No data

Structure Comments: Outlet end was completely buried and therefore inaccessible. Substrate coverage unknown.

Structure length estimated based on previous UMass data.

Inlet



INLET

Inlet Shape/Type: Pipe Arch/Elliptical Culvert/Headwall and Wingwalls

Inlet Drop/Grade: At Stream Grade

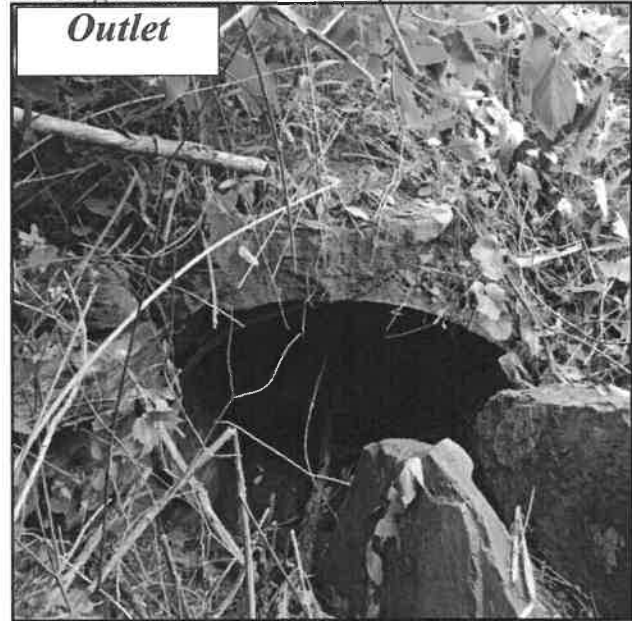
Dimensions:

Width: 3.5, Height: 2.6

Substrate/Water Width: 0

Water Depth: 0

Outlet



OUTLET

Outlet Shape: Unknown

Outlet Drop/Grade: Clogged/Collapsed/Submerged

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

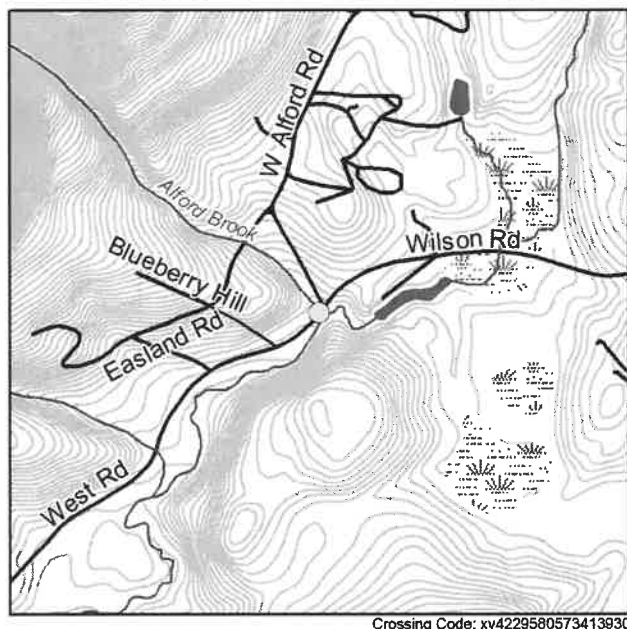
Width: 0.0, Height: 0.0

Substrate/Water Width: 0.0

Water Depth: 0.00

Road: Wilson Road

Stream: Alford Brook



RESULTS

Barrier Evaluation: Minor barrier
Aquatic Organism Passage Score: 0.74
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 8 (Ranked 18 of 45)

LOCATION

Coordinates: 42.296050, -73.414020
Location Description: Just past West Stockbridge town line from Alford, at intersection with West Alford Road
Date Observed: 2019-06-06
Crossing Code: xy4229580573413930

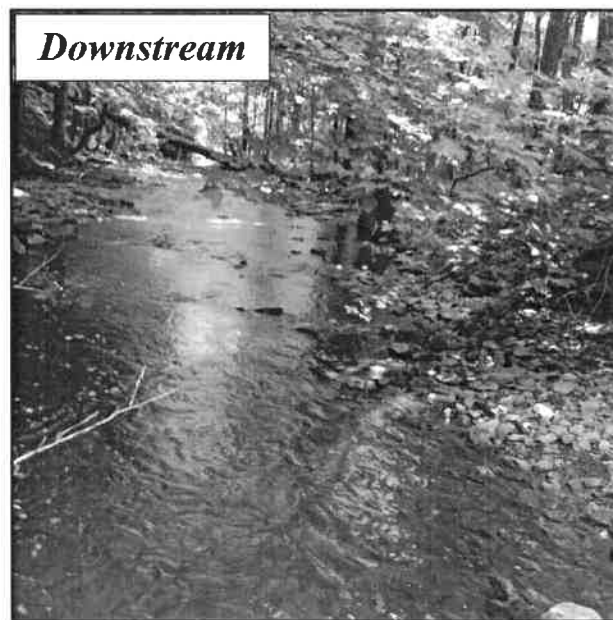
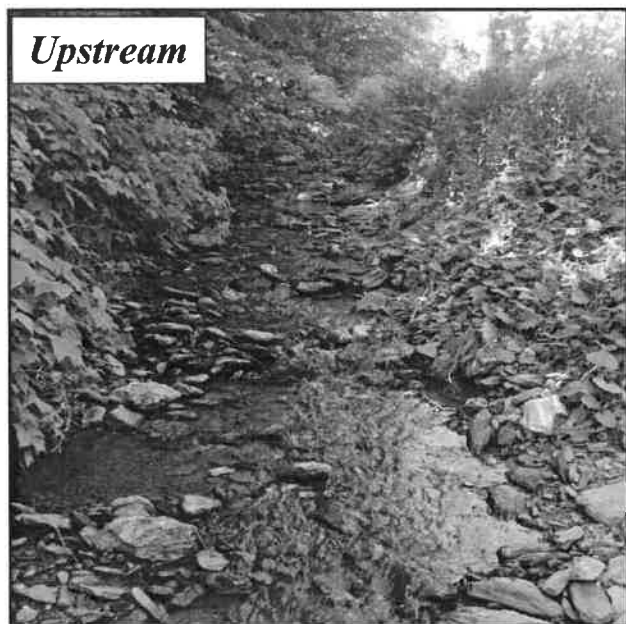
STREAM AND CROSSING

CROSSING CHARACTERISTICS

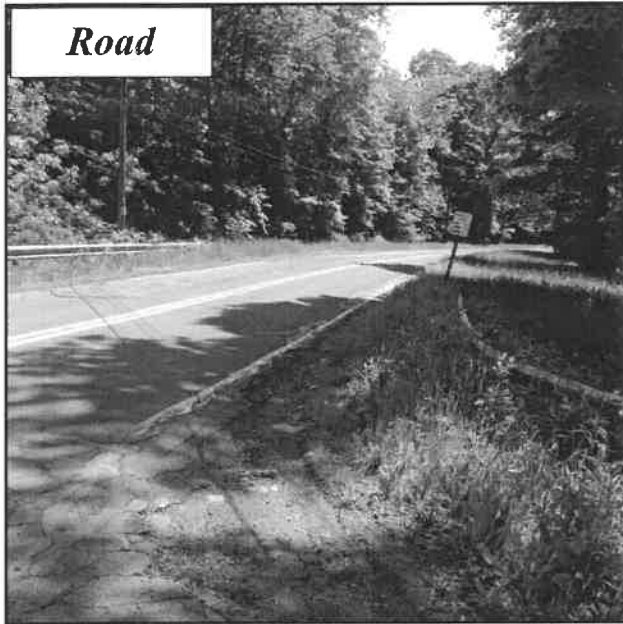
Crossing Type: Multiple Culvert
Number of structures/cells: 2
Condition: OK
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: Large
Bankfull Width (feet): 16.0
Water Depth/Velocity Matches Stream: No-
Shallower/No-Faster
Structure Substrate Type: None
Structure Substrate Matches Stream? None



Crossing Comments: Scour pools on both culverts. Outlet picture is structure 1, structure 2 outlet will be under other photo 2.



Road

ROAD

Road Type: Paved

Road Fill Height (feet): 2.61

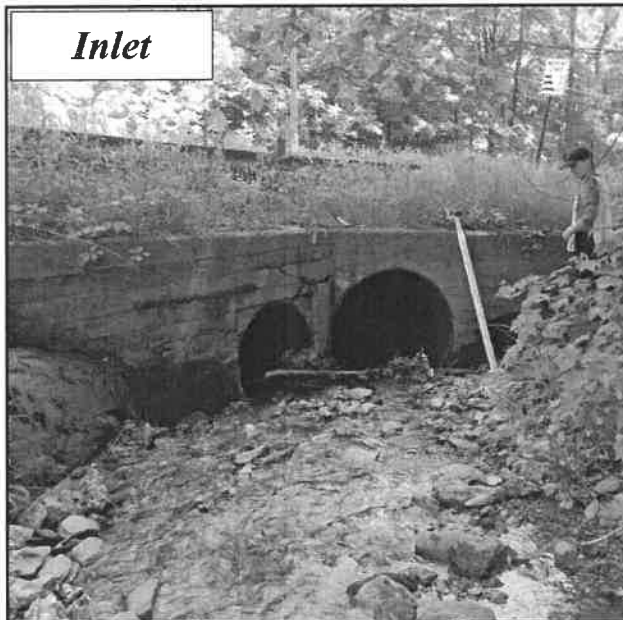
Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	51.58	5.61	1.31	No
5	57.67		1.44	No
10	61.41		1.52	No
25	65.78		1.62	No
50	68.81		1.7	No
100	71.67		1.78	No

STRUCTURE 1 OF 2

Material: Metal
Length (feet): 52
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): None
Slope (%): No data
Structure Comments: No data



Inlet

INLET

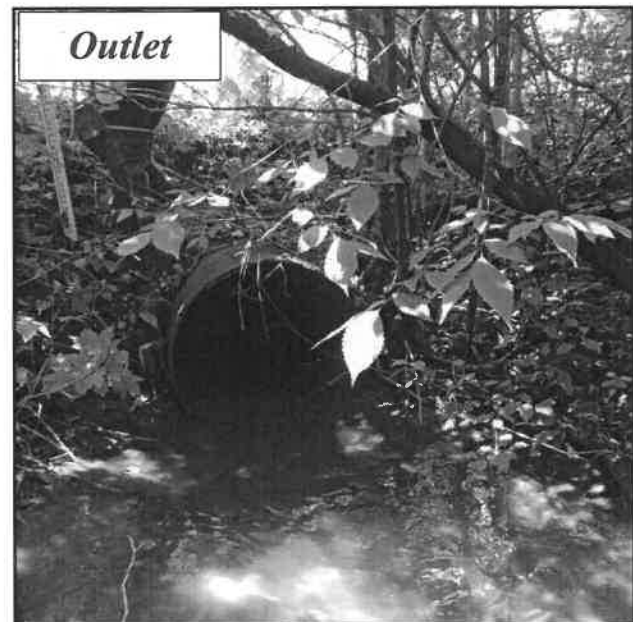
Inlet Shape/Type: Round Culvert/Headwall
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 2.9, Height: 3

Substrate/Water Width: 1

Water Depth: 0.3



Outlet

OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 2.8, Height: 3.0

Substrate/Water Width: 2.5

Water Depth: 0.64

STRUCTURE 2 OF 2

Material: Metal
Length (feet): 54
Dry Passage/Height (feet): No

Physical Barrier(s)/Severity: None
Slope (%): No data
Structure Comments: No data

INLET

Inlet Shape/Type: Round Culvert/Headwall
Inlet Drop/Grade: At Stream Grade
Dimensions (feet):
 Width: 4, Height: 4
 Substrate/Water Width: 2.3
 Water Depth: 0.5

OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: Free Fall
Drop to Stream Surface/Bottom (feet): 0.2/0.5
Dimensions (feet):
 Width: 4, Height: 4
 Substrate/Water Width: 1
 Water Depth: 0.1

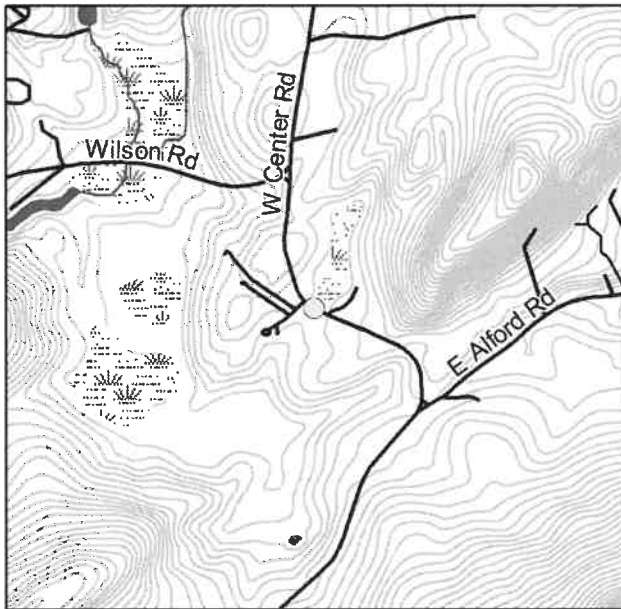
.....

ADDITIONAL PHOTO



Road: West Center Road

Stream: Unnamed



Crossing Code: xy4229313073402340

RESULTS

Barrier Evaluation: Minor barrier
Aquatic Organism Passage Score: 0.78
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.293130, -73.402340
Location Description: Just past 176 West Center
Road by the concrete fence posts
Date Observed: 2020-07-21
Crossing Code: xy4229313073402340

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

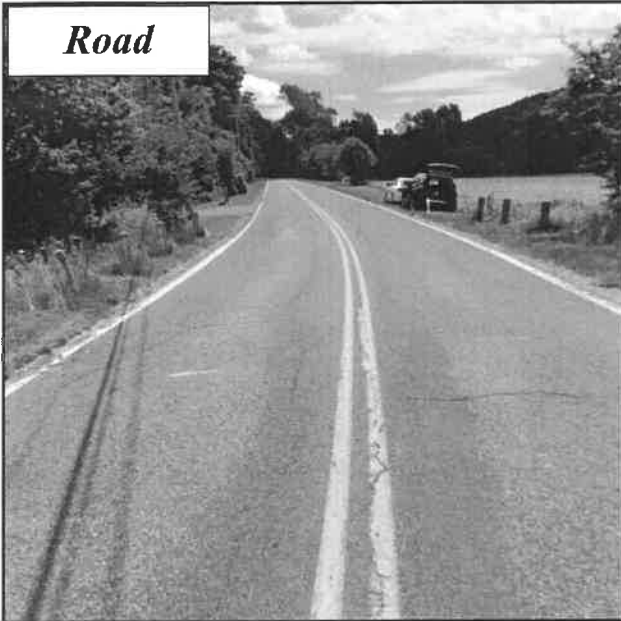
STREAM CHARACTERISTICS

Scour Pool: Small
Bankfull Width (feet): 8.0
Water Depth/Velocity Matches Stream: No-
Deeper/Yes
Structure Substrate Type: Gravel
Structure Substrate Matches Stream? Compara-
ble



Crossing Comments: Inlet photo very hard to get because of thick vegetation

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 4.88

Road Ownership: Town

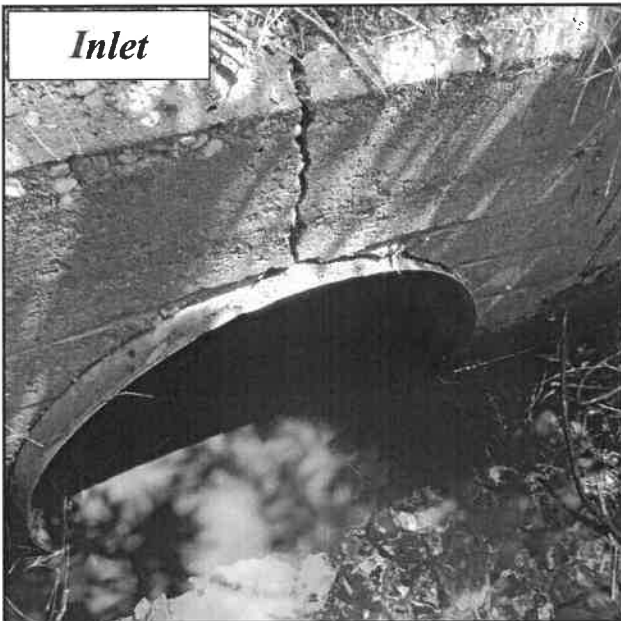
Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	10.76	7.28	0.2	No
5	11.78		0.24	No
10	12.36		0.26	No
25	13		0.29	No
50	13.43		0.31	No
100	13.81		0.33	No

STRUCTURE 1 OF 1

Material: Metal
Length (feet): 45.4
Dry Passage/Height: No
Outlet Armoring: None

Physical Barrier(s) (Severity): None
Slope (%): 0
Structure Comments: No data

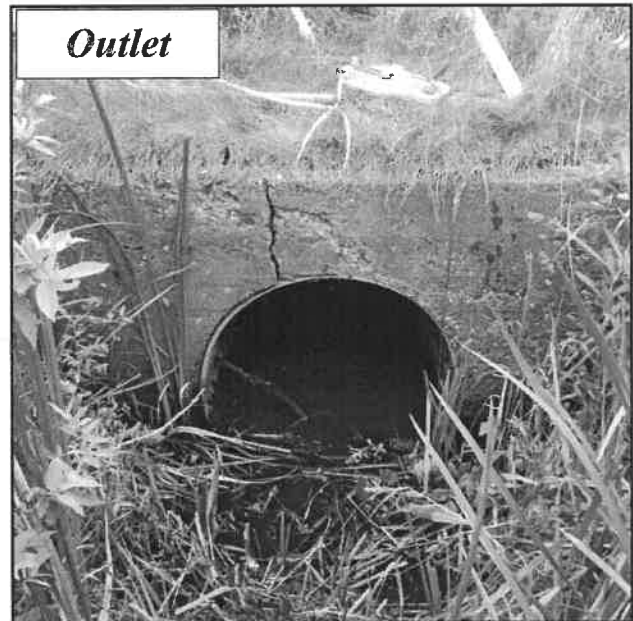
Inlet



INLET

Inlet Shape/Type: Round Culvert/Headwall
Inlet Drop/Grade: At Stream Grade
Dimensions:
Width: 3.1, Height: 2.4
Substrate/Water Width: 2.9
Water Depth: 0.6

Outlet



OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: At Stream Grade
Drop to Stream Surface/Bottom: 0.0/0.0
Dimensions:
Width: 3.1, Height: 2.9
Substrate/Water Width: 2.6
Water Depth: 0.80

Road: Shaw Road

Stream: Unnamed



Crossing Code: xy4229551073384850

RESULTS

Barrier Evaluation: Minor barrier

Aquatic Organism Passage Score: 0.68

Town Comments on Flooding/Condition/

Maintenance: No comment

Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.295510, -73.384850

Location Description: 200 feet into Shaw Road from the Shaw Road and Cobb Road intersection

Date Observed: 2020-07-16

Crossing Code: xy4229551073384850

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Severe

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

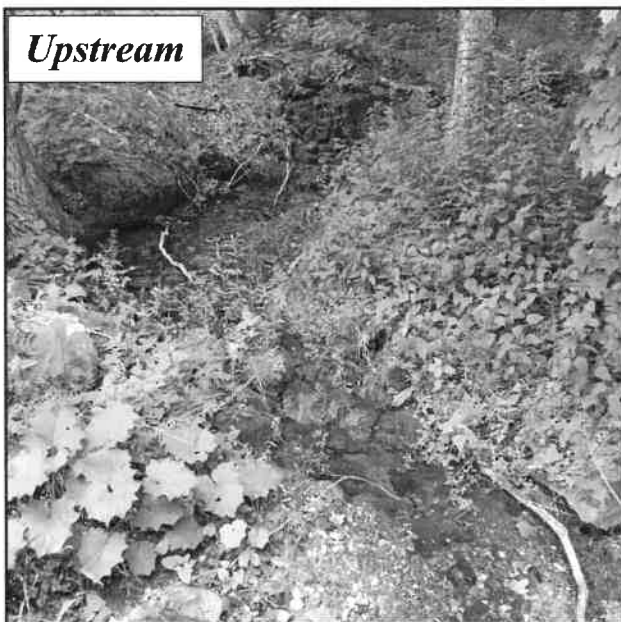
Scour Pool: Small

Bankfull Width (feet): 8.0

Water Depth/Velocity Matches Stream: Yes/Yes

Structure Substrate Type: Gravel

Structure Substrate Matches Stream? Comparable



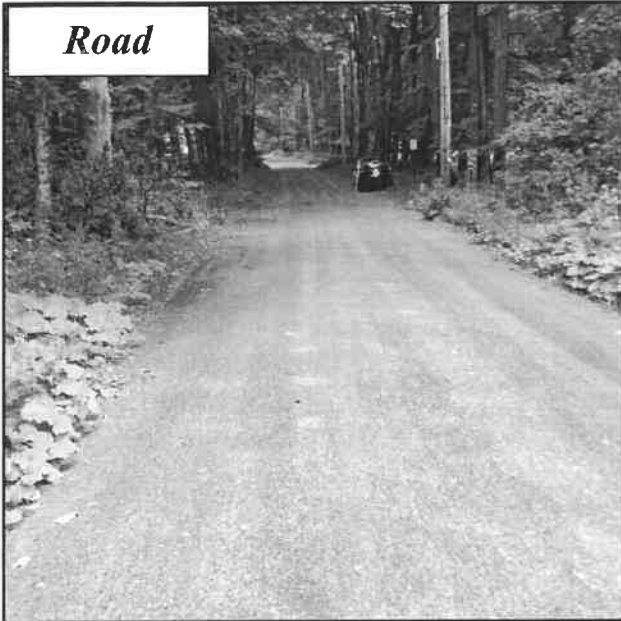
Upstream



Downstream

Crossing Comments: Property owner nearby reported that this crossing overtops about once every couple of years. This occurs when there is a long period of rain or a significant rain when the ground is frozen. He indicated that there are trout in this stream and was concerned about the perched nature of the culvert.

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 2.78

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	11.15	4.58	1.23	No
5	12.18		1.46	No
10	12.77		1.61	No
25	13.44		1.78	No
50	13.88		1.89	No
100	14.29		2	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 32.5

Dry Passage/Height: No

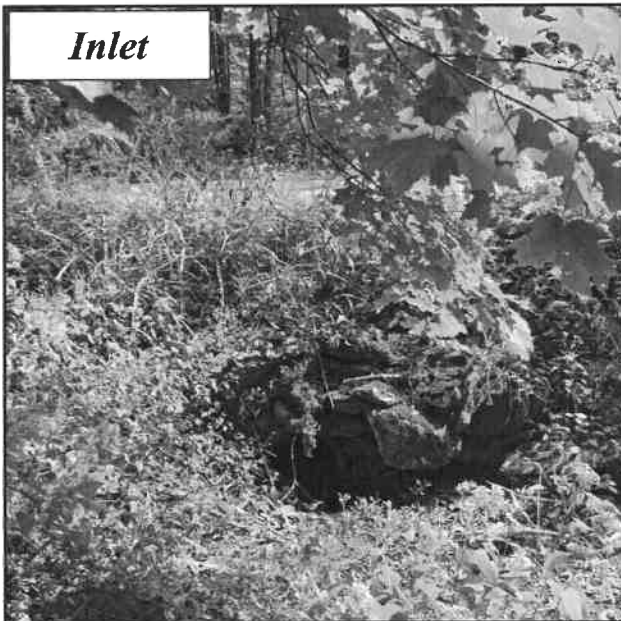
Outlet Armoring: None

Physical Barrier(s) (Severity): Debris/Sediment/
Rock (Moderate)

Slope (%): 2

Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Round Culvert/Headwall

Inlet Drop/Grade: At Stream Grade

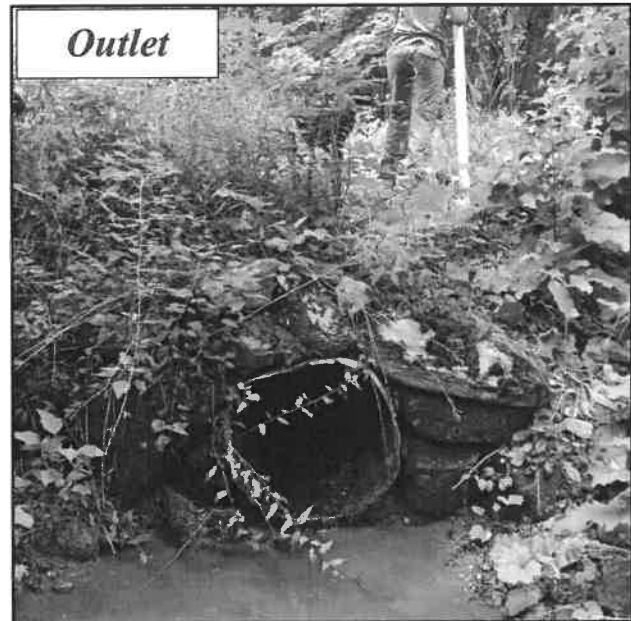
Dimensions:

Width: 2, Height: 1.8

Substrate/Water Width: 1.7

Water Depth: 0.2

Outlet



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: Free Fall

Drop to Stream Surface/Bottom: 0.2/0.6

Dimensions:

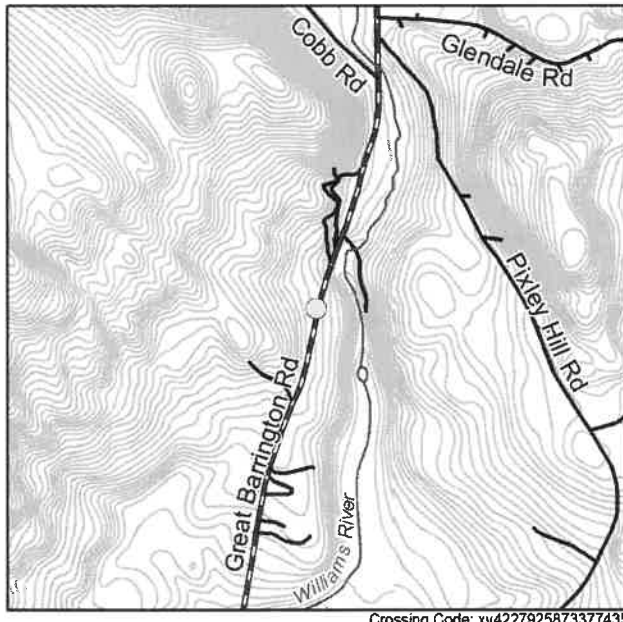
Width: 2.6, Height: 2.5

Substrate/Water Width: 1.2

Water Depth: 0.10

Road: Great Barrington Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Minor barrier
Aquatic Organism Passage Score: 0.74
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 7 (Ranked 13 of 45)

LOCATION

Coordinates: 42.279540, -73.377430
Location Description: By telephone pole MECO
134
Date Observed: 2020-06-23
Crossing Code: xy4227925873377435

STREAM AND CROSSING

CROSSING CHARACTERISTICS

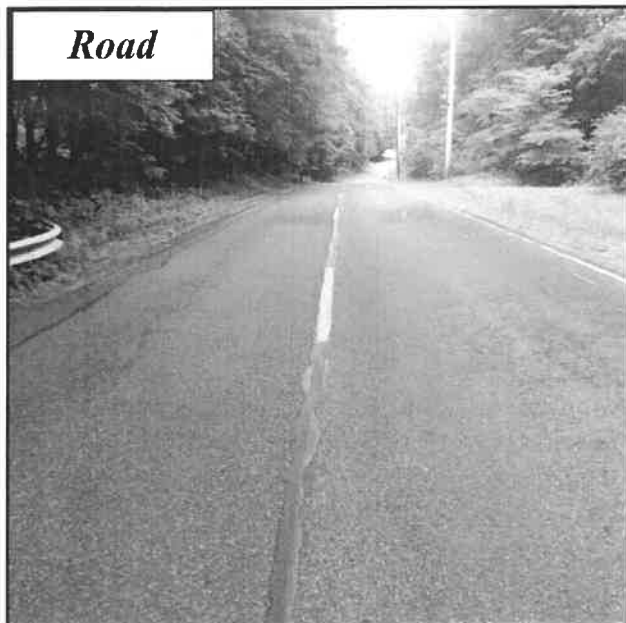
Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 5.0
Water Depth/Velocity Matches Stream: Dry/Dry
Structure Substrate Type: None
Structure Substrate Matches Stream? Contrasting



Crossing Comments: No data

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): 3.16

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	3281.4	4.66	7.06	Yes
5	3695.15		8.95	Yes
10	3957.48		10.27	Yes
25	4271.24		11.96	Yes
50	4492.82		13.24	Yes
100	4705.89		14.52	Yes

STRUCTURE 1 OF 1

Material: Concrete

Length (feet): 42

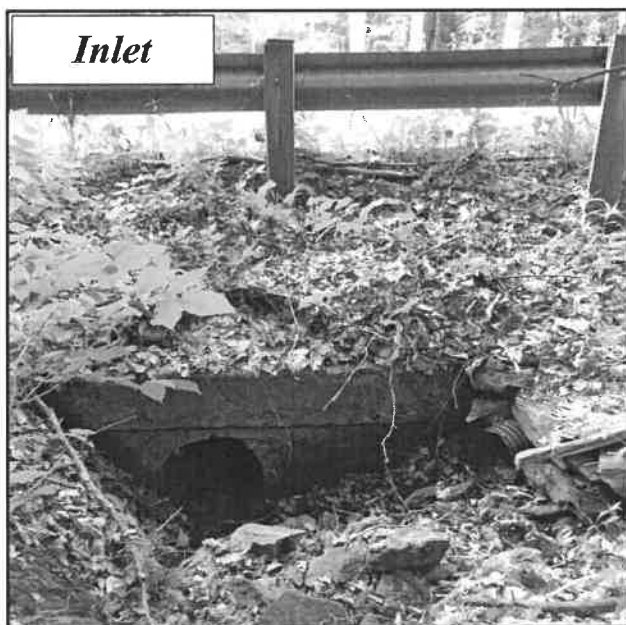
Dry Passage/Height: Yes (1.5)

Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): 3

Structure Comments: One storm water pipe next to inlet

Inlet**INLET**

Inlet Shape/Type: Round Culvert/Headwall

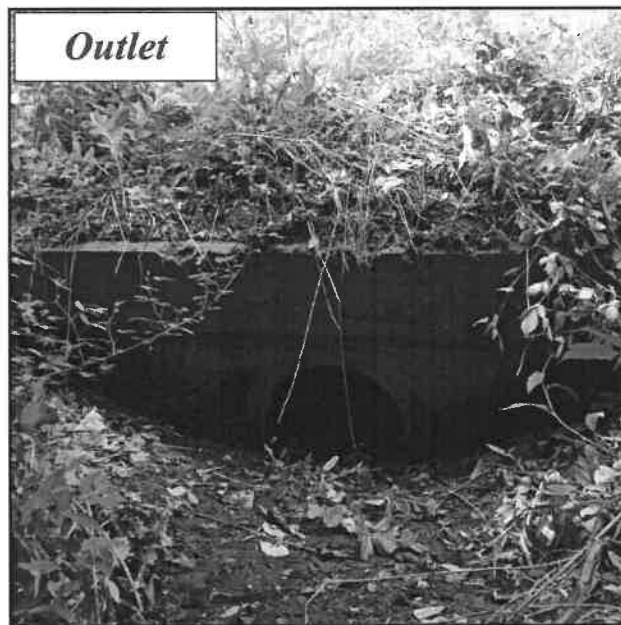
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 1.5, Height: 1.5

Substrate/Water Width: 0

Water Depth: 0

Outlet**OUTLET**

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

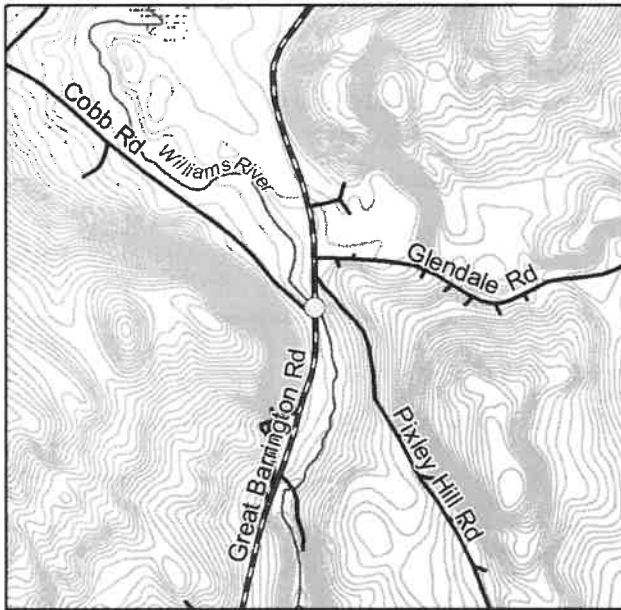
Width: 1.5, Height: 0.9

Substrate/Water Width: 0.0

Water Depth: 0.00

Road: Great Barrington Road

Stream: Williams River



Crossing Code: xy4228683573375494

RESULTS

Barrier Evaluation: Insignificant barrier
Aquatic Organism Passage Score: 0.91
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Not ranked

LOCATION

Coordinates: 42.286780, -73.375600
Location Description: Adjacent to the intersection of Great Barrington Road and Cobb Road
Date Observed: 2020-06-22
Crossing Code: xy4228683573375494

STREAM AND CROSSING

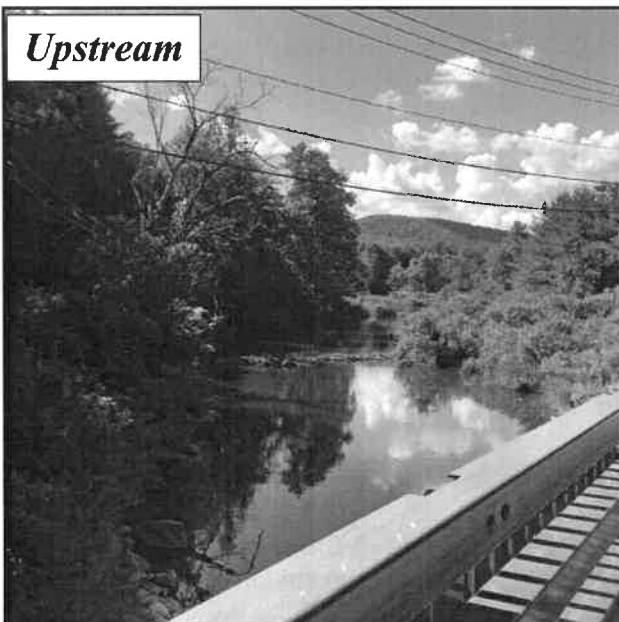
CROSSING CHARACTERISTICS

Crossing Type: Bridge
Number of structures/cells: 1
Condition: OK
Constriction: Spans Only Bankfull/Active Channel
Alignment: Flow-Aligned
Internal Features/Structures: None

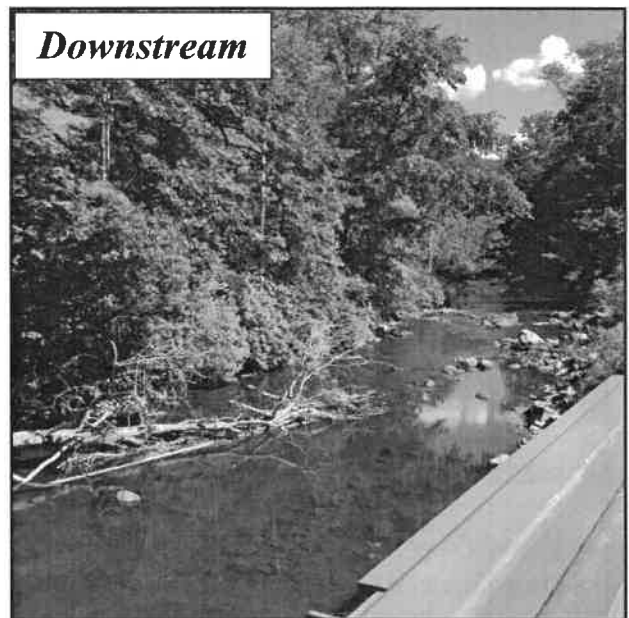
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 48.0
Water Depth/Velocity Matches Stream: No-Deeper/No-Slower
Structure Substrate Type: Boulder
Structure Substrate Matches Stream? Comparable

Upstream

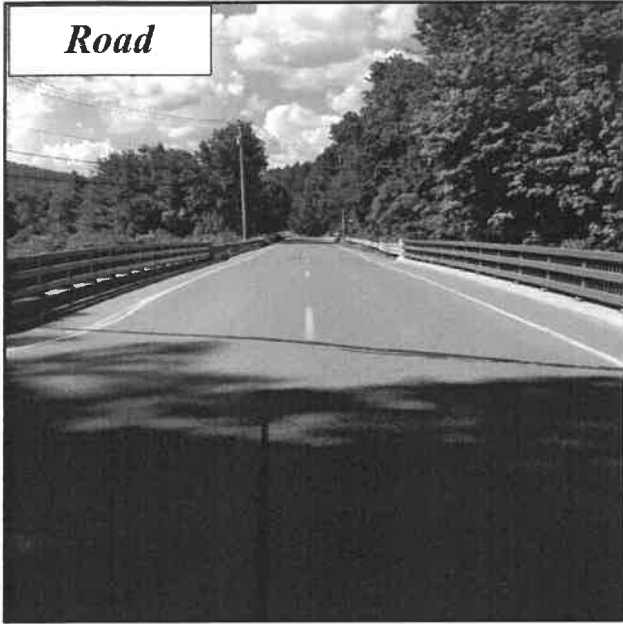


Downstream



Crossing Comments: Large dead snapping turtle on grass verge next to bridge. Built 2016.

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 0

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	3247.32	No data		
5	3656.34			
10	3915.64			
25	4225.72			
50	4444.69			
100	4655.23			

STRUCTURE 1 OF 1

Material: Concrete

Length (feet): 42

Dry Passage/Height: Yes (5.2)

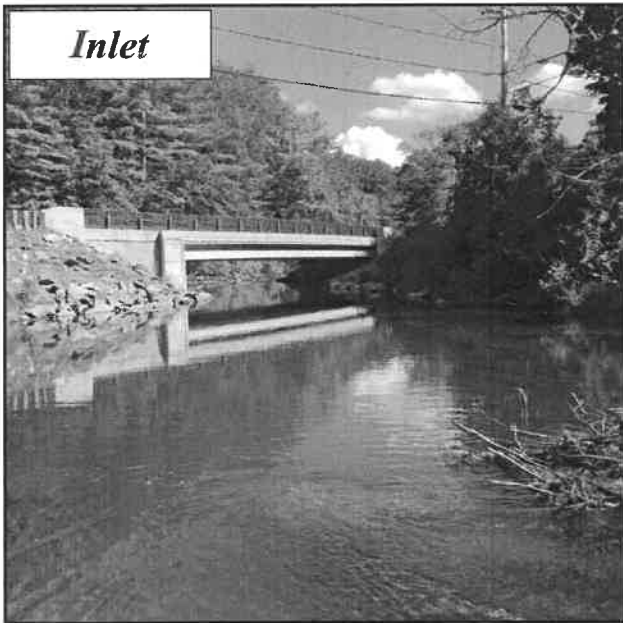
Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Box/Bridge with Abutments/Headwall

Inlet Drop/Grade: At Stream Grade

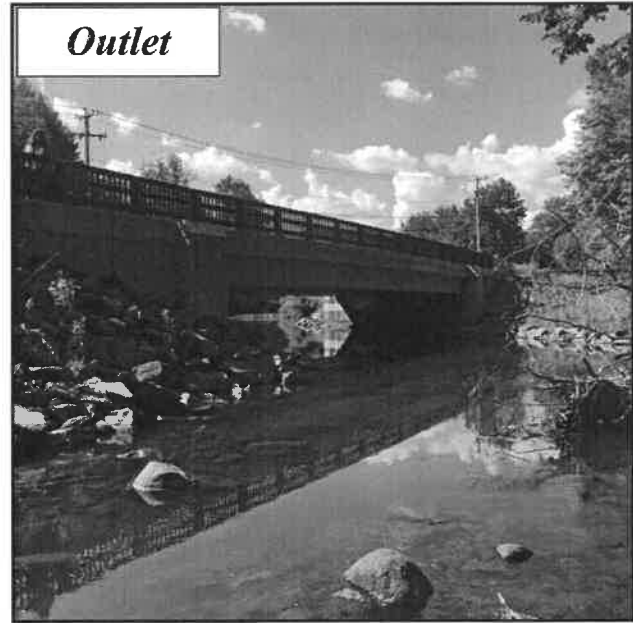
Dimensions:

Width: 90, Height: 8.6

Substrate/Water Width: 90

Water Depth: 4

Outlet



OUTLET

Outlet Shape: Box/Bridge with Abutments

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

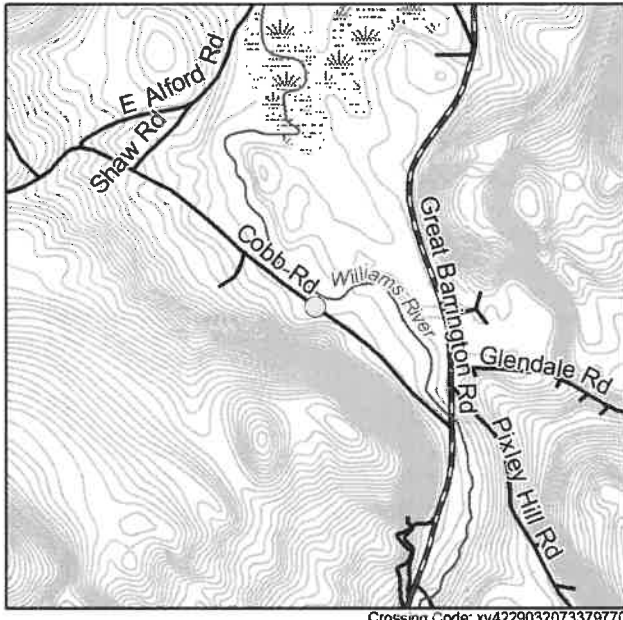
Width: 90.0, Height: 8.6

Substrate/Water Width: 82.0

Water Depth: 2.60

Road: Cobb Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Minor barrier
Aquatic Organism Passage Score: 0.79
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 7 (Ranked 13 of 45)

LOCATION

Coordinates: 42.290320, -73.379770
Location Description: About 50-100 feet north of
29 Cobb Road
Date Observed: 2020-06-23
Crossing Code: xy4229032073379770

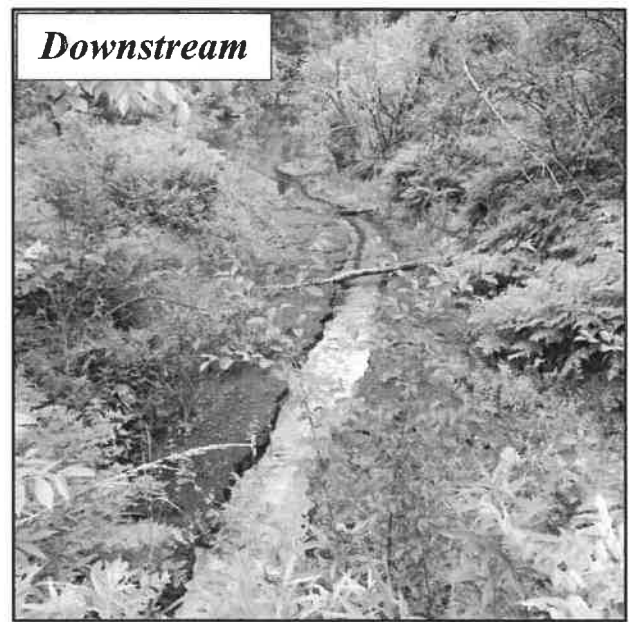
STREAM AND CROSSING

CROSSING CHARACTERISTICS

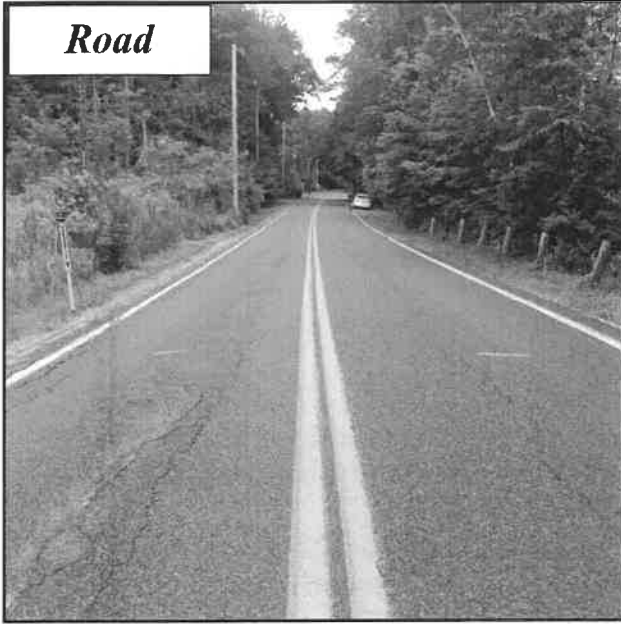
Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 8.0
Water Depth/Velocity Matches Stream: No-
Deeper/Yes
Structure Substrate Type: Silt
Structure Substrate Matches Stream? Compara-
ble



Crossing Comments: Crossing is caving downward around halfway through the pipe about 20 percent

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): 3.32

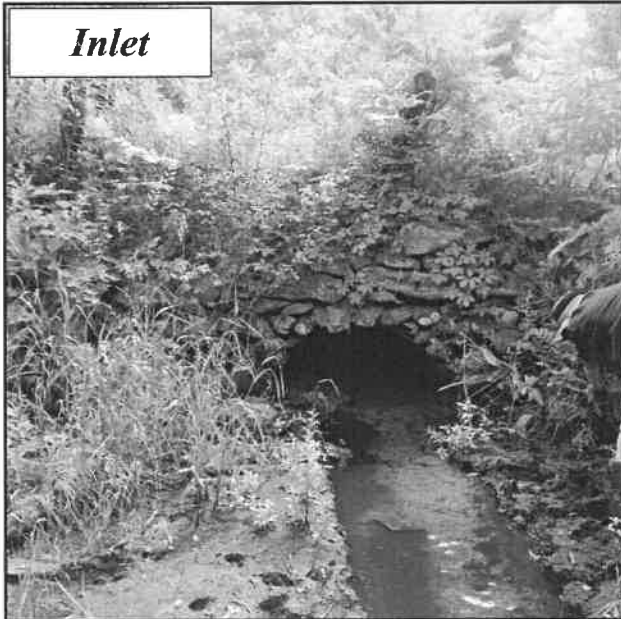
Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	3197.12	5.78	5.92	Yes
5	3552.6		7.31	Yes
10	3762.41		8.2	Yes
25	4001.11		9.28	Yes
50	4162.05		10.04	Yes
100	4310.68		10.77	Yes

STRUCTURE 1 OF 1

Material: Metal
 Length (feet): 40
 Dry Passage/Height: No
 Outlet Armoring: None

Physical Barrier(s) (Severity): None
 Slope (%): 0
 Structure Comments: No data

Inlet**INLET**

Inlet Shape/Type: Pipe Arch/Elliptical Culvert/
 Headwall

Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 3.8, Height: 2.1

Substrate/Water Width: 2.6

Water Depth: 0.4

Outlet**OUTLET**

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

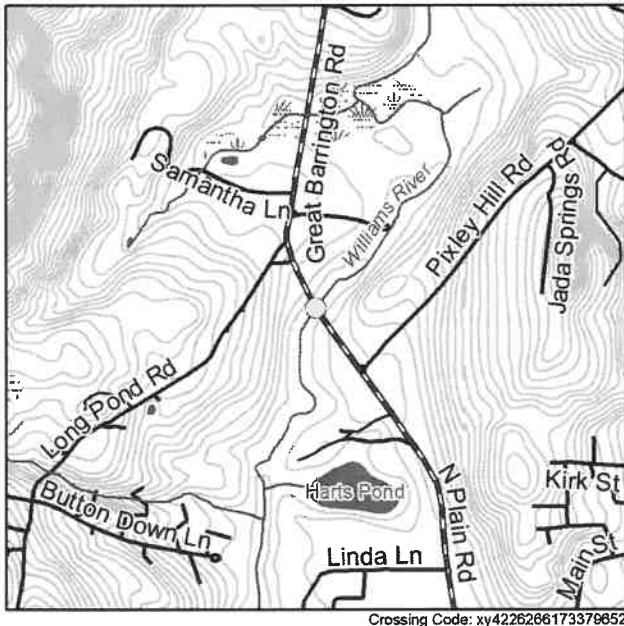
Width: 4.2, Height: 2.4

Substrate/Water Width: 2.4

Water Depth: 0.25

Road: Great Barrington Road

Stream: Williams River



RESULTS

Barrier Evaluation: Insignificant barrier
Aquatic Organism Passage Score: 0.89
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Not ranked

LOCATION

Coordinates: 42.262600, -73.379750
Location Description: Bridge after the abandoned Denny's Autobody, between telephone pole 479 and 480 MECO
Date Observed: 2020-06-22
Crossing Code: xy4226266173379652

STREAM AND CROSSING

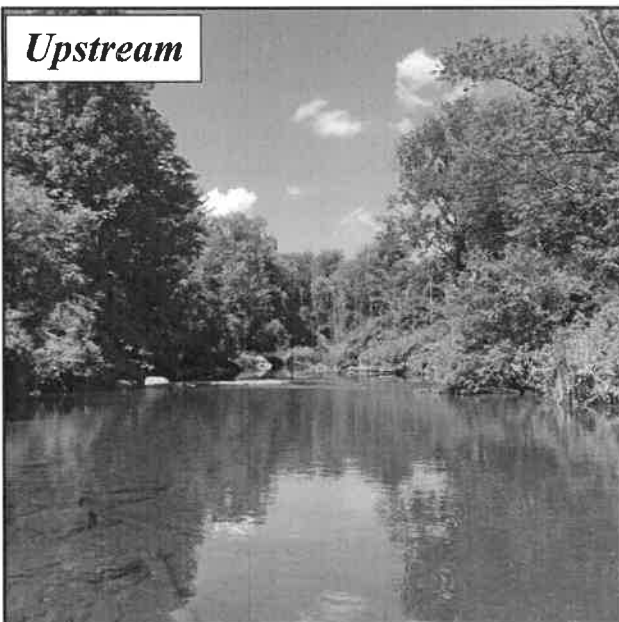
CROSSING CHARACTERISTICS

Crossing Type: Bridge
Number of structures/cells: 1
Condition: OK
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

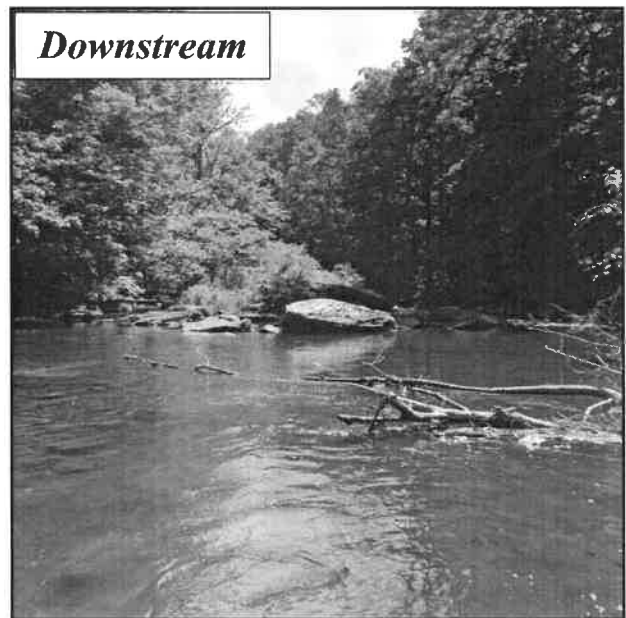
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 48.0
Water Depth/Velocity Matches Stream: No-
Deeper/Yes
Structure Substrate Type: Boulder
Structure Substrate Matches Stream? Contrasting

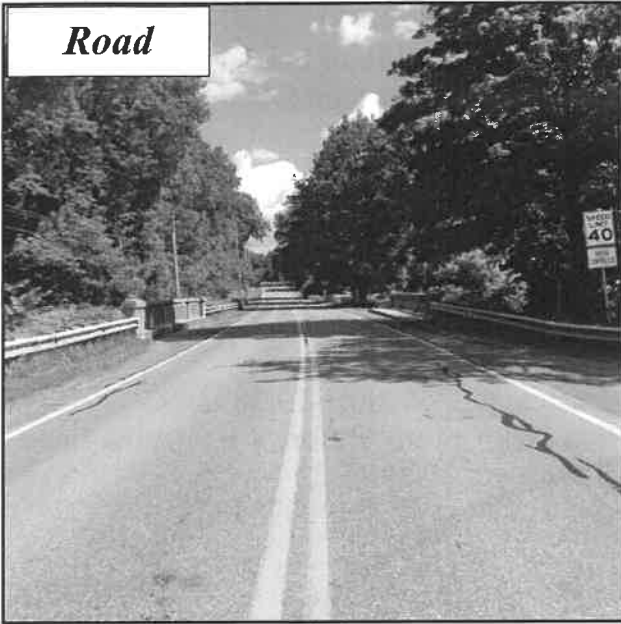
Upstream



Downstream



Crossing Comments: Bridge built 1931

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): 0

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	3419.91	No data		
5	3800.56			
10	4025.99			
25	4283.1			
50	4456.83			
100	4617.51			

STRUCTURE 1 OF 1

Material: Concrete

Length (feet): 50

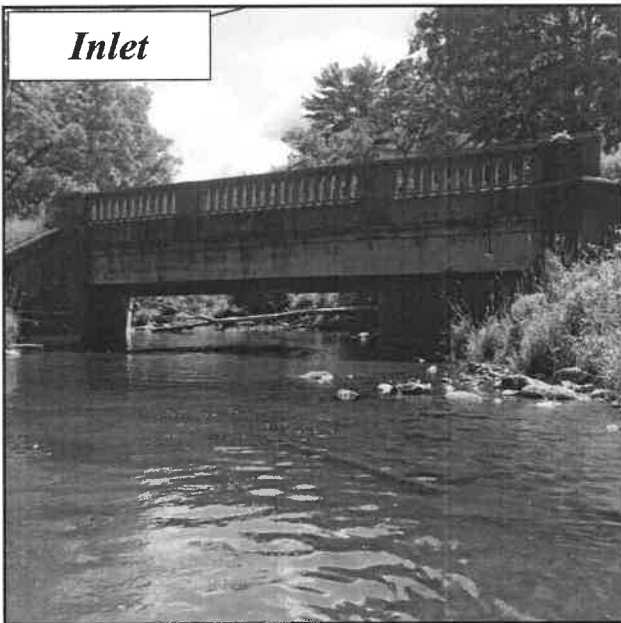
Dry Passage/Height: No

Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: No data

Inlet**INLET**Inlet Shape/Type: Box/Bridge with Abutments/
Headwall and Wingwalls

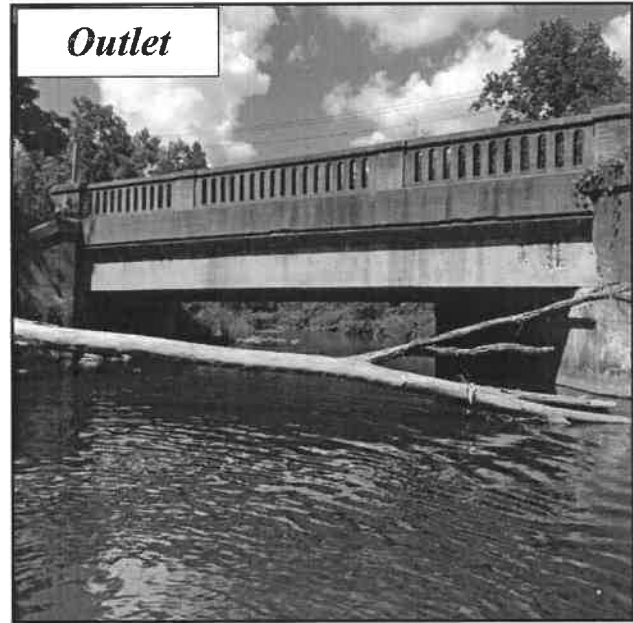
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 42.5, Height: 9

Substrate/Water Width: 42.5

Water Depth: 2.6

Outlet**OUTLET**

Outlet Shape: Box/Bridge with Abutments

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

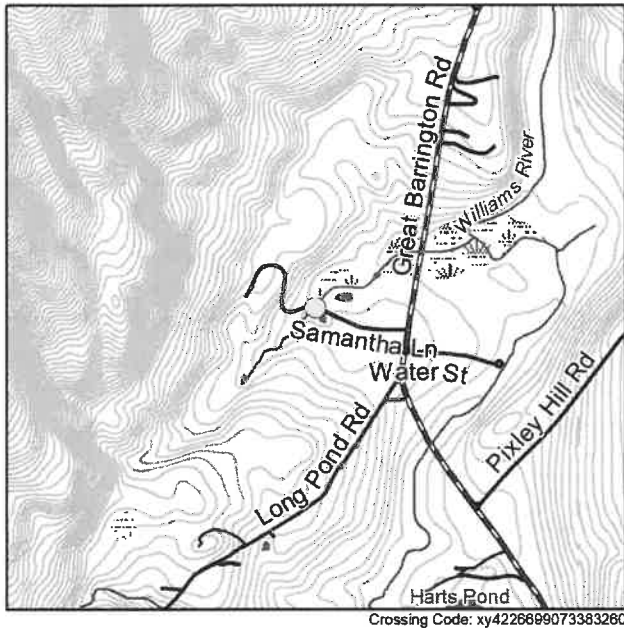
Width: 42.5, Height: 8.0

Substrate/Water Width: 42.5

Water Depth: 2.70

Road: Samantha Lane

Stream: Unnamed



RESULTS

Barrier Evaluation: Minor barrier
Aquatic Organism Passage Score: 0.75
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 10 (Ranked 25 of 45)

LOCATION

Coordinates: 42.266980, -73.383290
Location Description: Before 4 Samantha Lane
Date Observed: 2020-06-22
Crossing Code: xy4226699073383260

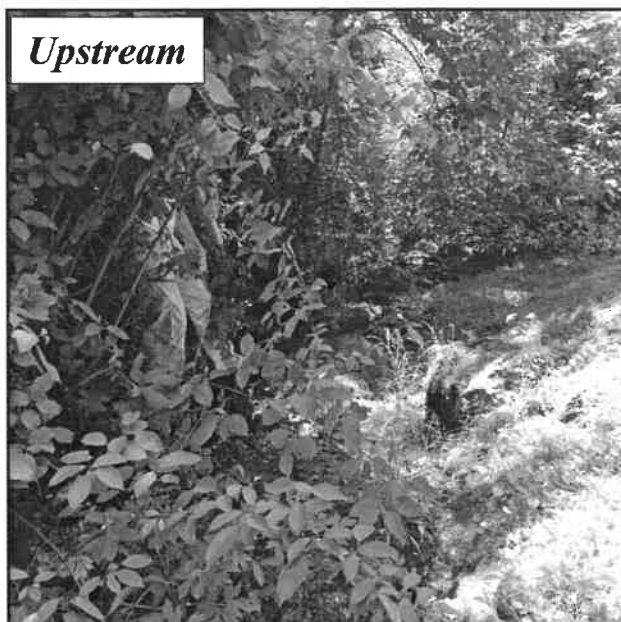
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Multiple Culvert
Number of structures/cells: 3
Condition: OK
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 8.0
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: None
Structure Substrate Matches Stream? None



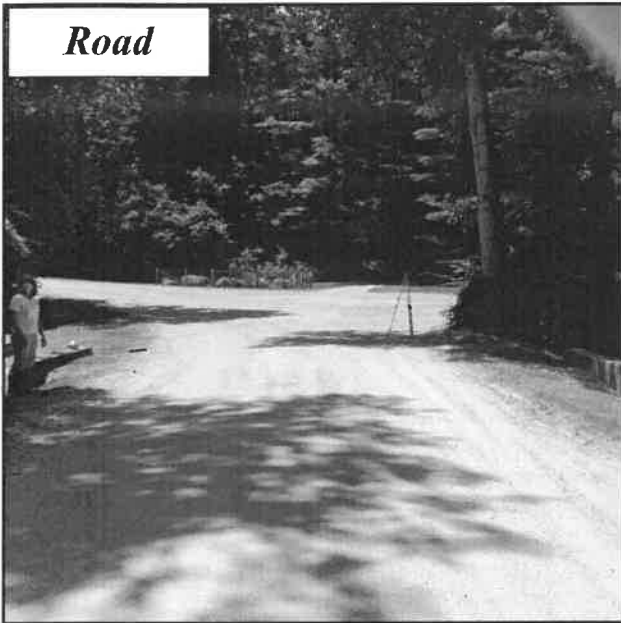
Upstream



Downstream

Crossing Comments: Road fill measured for structure 2

Road



ROAD

Road Type: Unpaved

Road Fill Height (feet): 3

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	29.73	3.36	0.83	No
5	32.67		0.9	No
10	34.4		0.94	No
25	36.38		1	No
50	37.72		1.03	No
100	38.96		1.07	No

STRUCTURE 1 OF 3

Material: Concrete

Length (feet): 32

Dry Passage/Height: No

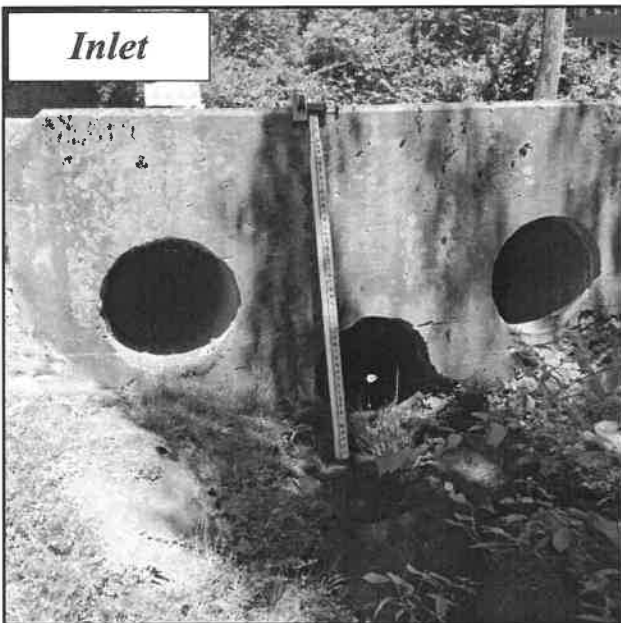
Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): 1

Structure Comments: No data

Inlet



INLET

Inlet Shape/Type: Round Culvert/Headwall

Inlet Drop/Grade: At Stream Grade

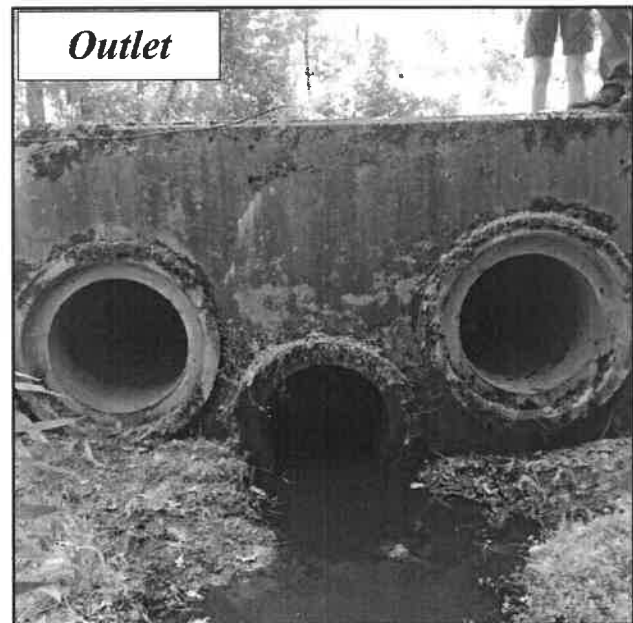
Dimensions:

Width: 2, Height: 2

Substrate/Water Width: 1.3

Water Depth: 0.25

Outlet



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 2.0, Height: 2.0

Substrate/Water Width: 1.6

Water Depth: 0.40

STRUCTURE 2 OF 3

Material: Concrete
Length (feet): 32
Dry Passage/Height (feet): Yes (2)

Physical Barrier(s)/Severity: Dry (Moderate)
Slope (%): 1
Structure Comments: No data

INLET

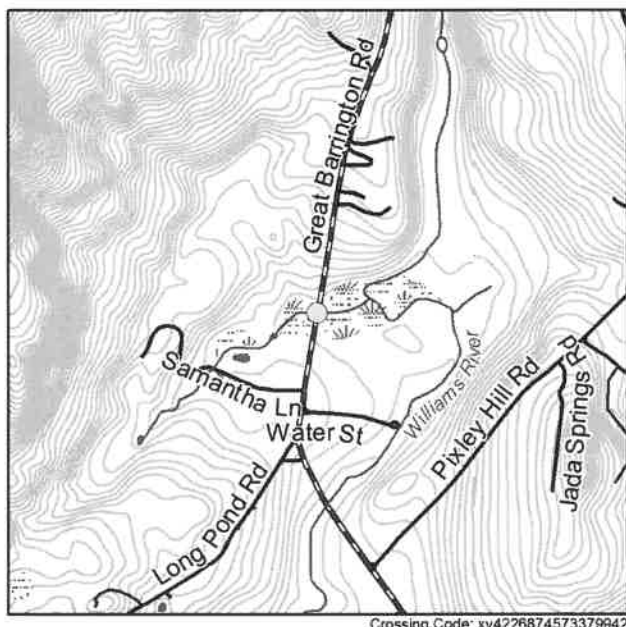
Inlet Shape/Type: Round Culvert/Headwall
Inlet Drop/Grade: Perched
Dimensions (feet):
 Width: 2, Height: 2
 Substrate/Water Width: 0
 Water Depth: 0

OUTLET

Outlet Shape: Round Culvert
Outlet Drop/Grade: Free Fall
Drop to Stream Surface/Bottom (feet): 0/0.4
Dimensions (feet):
 Width: 2, Height: 2
 Substrate/Water Width: 0
 Water Depth: 0

Road: Great Barrington Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Insignificant barrier

Aquatic Organism Passage Score: 0.8

Town Comments on Flooding/Condition/

Maintenance: Curt mentioned that this is a seasonal flow, but is undersized. While it is on Route 41, this stretch is town owned.

Overall Ranking: Tier 6 (Ranked 11 of 45)

LOCATION

Coordinates: 42.268770, -73.380040

Location Description: Great Barrington Road north of Samantha Lane intersection

Date Observed: 2020-07-20

Crossing Code: xy4226874573379942

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Severe

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

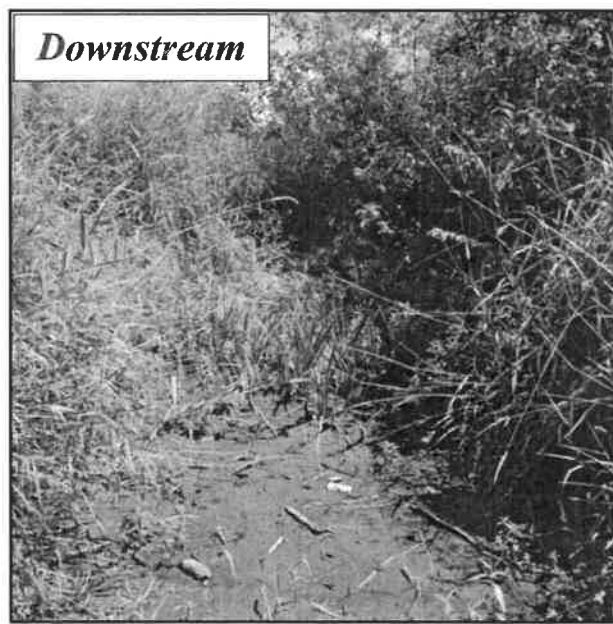
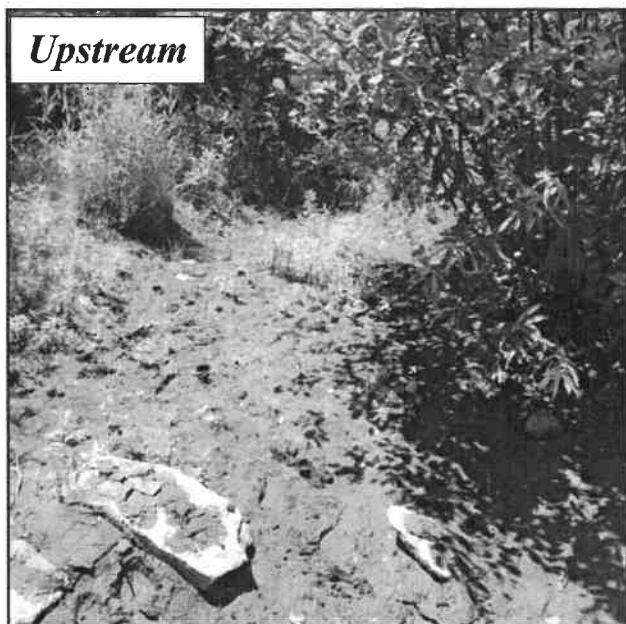
Scour Pool: None

Bankfull Width (feet): 100.0

Water Depth/Velocity Matches Stream: Dry/Dry

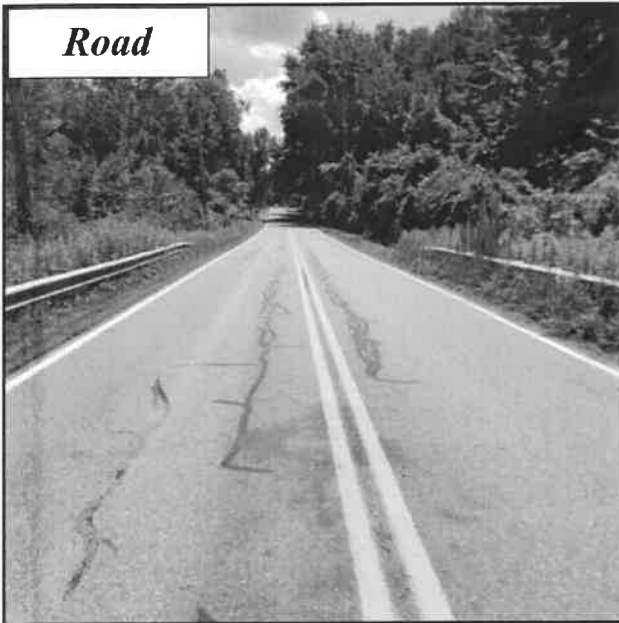
Structure Substrate Type: Sand

Structure Substrate Matches Stream? Comparable



Crossing Comments: No data

Road



ROAD

Road Type: Paved

Road Fill Height (feet): 1.95

Road Ownership: Town

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	103.75	5.55	1.56	No
5	116.46		1.6	No
10	124.49		1.63	No
25	134.06		1.66	No
50	140.81		1.69	No
100	147.28		1.71	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 38.5

Dry Passage/Height: Yes (3.6)

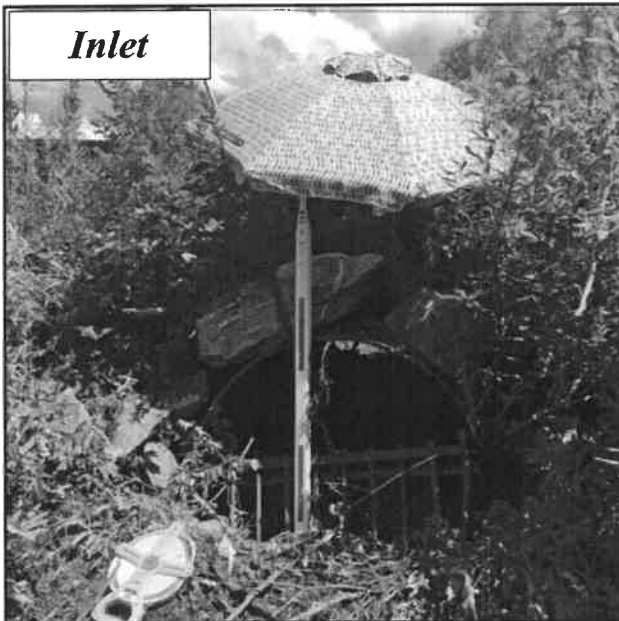
Outlet Armoring: None

Physical Barrier(s) (Severity): Debris/Sediment/
Rock,Fencing,Other (Moderate)

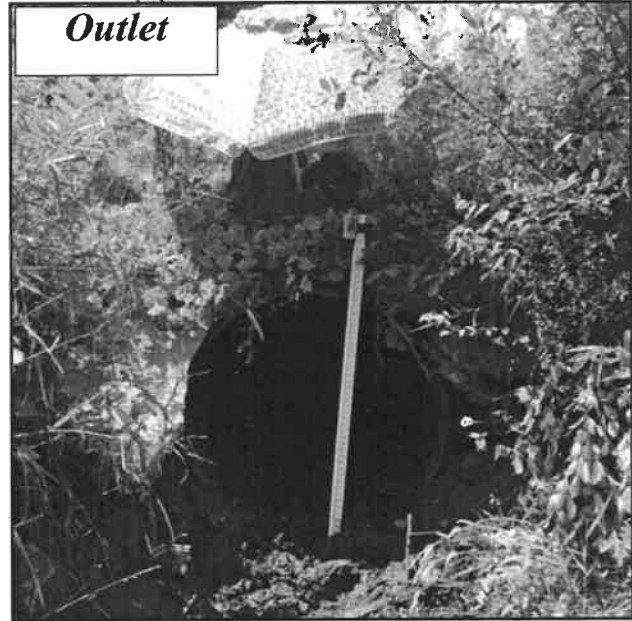
Slope (%): 6

Structure Comments: Pipe edge deformed at inlet, thick
mud inside pipe but stream is also dry and muddy.

Inlet



Outlet



INLET

Inlet Shape/Type: Round Culvert/Headwall and Wingwalls

Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 4, Height: 3.6

Substrate/Water Width: 3.4

Water Depth: 0

OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 4.4, Height: 4.3

Substrate/Water Width: 3.4

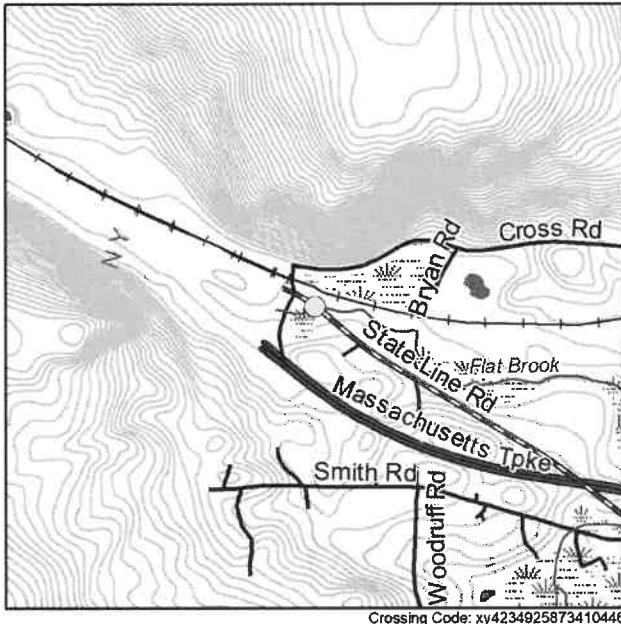
Water Depth: 0.00

State-Managed Crossings

Entries are organized geographically by Map Index Key,
beginning with 1A

Road: State Line Road, Route 102

Stream: Unnamed



RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.349230, -73.410630
Location Description: In between the Welcome
to MA and Welcome to NY signs
Date Observed: 2020-06-26
Crossing Code: xy4234925873410446

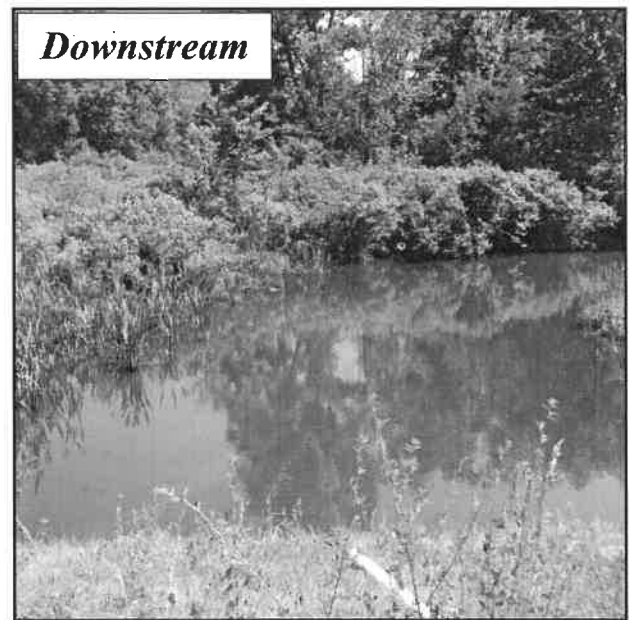
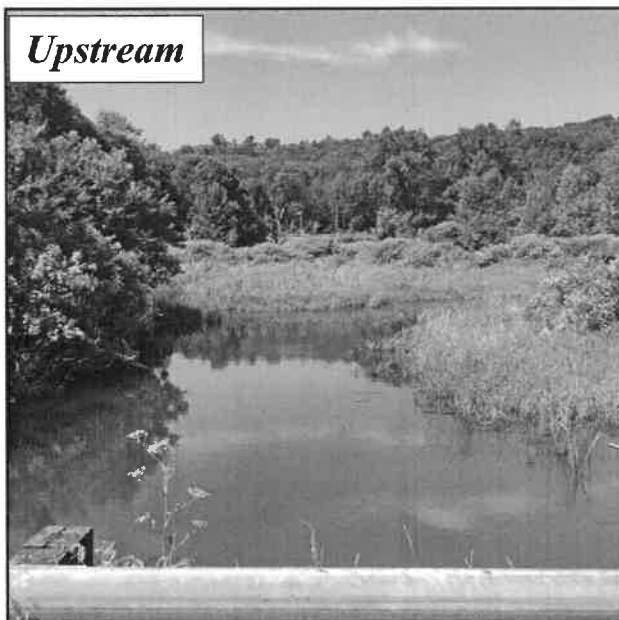
STREAM AND CROSSING

CROSSING CHARACTERISTICS

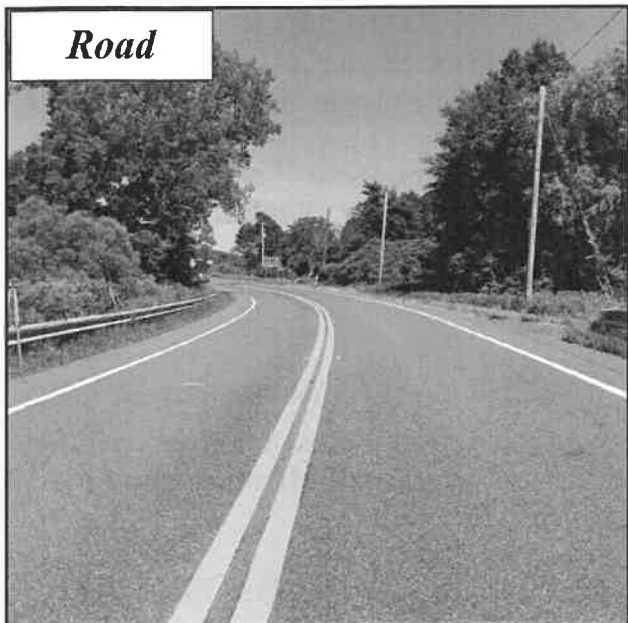
Crossing Type: Partially Inaccessible
Number of structures/cells: 1
Condition: Unknown
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: No data

STREAM CHARACTERISTICS

Scour Pool: Unknown
Bankfull Width (feet): 0.0
Water Depth/Velocity Matches Stream: Un-
known/Unknown
Structure Substrate Type: Unknown
Structure Substrate Matches Stream? Unknown



Crossing Comments: Stream crossing and many measurements and photos are almost completely inaccessible due to high water from wetland. May be more accessible during extremely low flow conditions.

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): No data

Road Ownership: State

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	619.39	No data		
5	700.62			
10	750			
25	807.42			
50	846.91			
100	883.87			

STRUCTURE 1 OF 1

Material: Concrete

Length (feet): 47.5

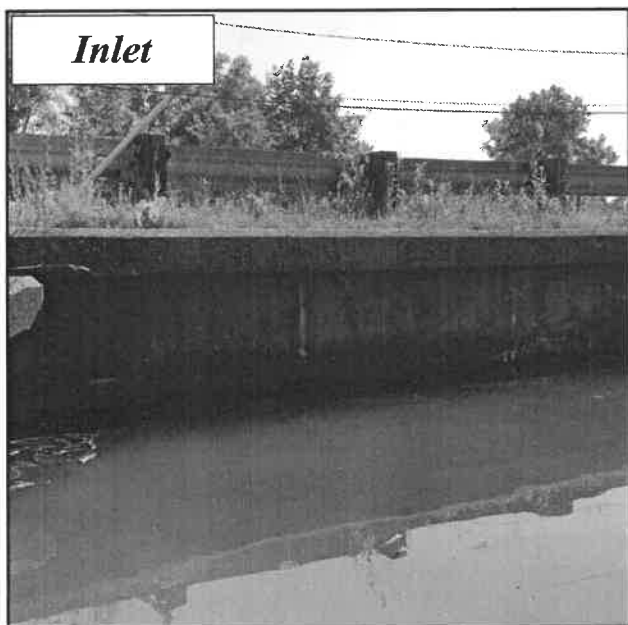
Dry Passage/Height: No data

Outlet Armoring:

Physical Barrier(s) (Severity): No data

Slope (%): 0

Structure Comments: No data

Inlet**INLET**

Inlet Shape/Type: Unknown/Headwall and Wingwalls

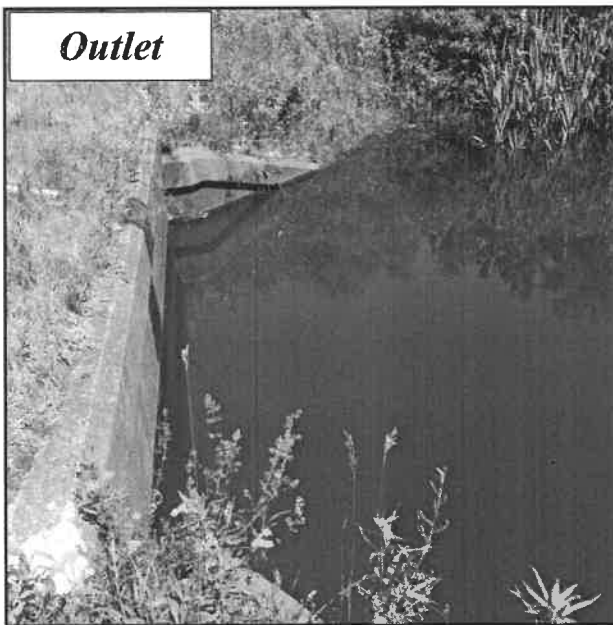
Inlet Drop/Grade: Unknown

Dimensions:

Width: No data, Height: No data

Substrate/Water Width: No data

Water Depth: No data

Outlet**OUTLET**

Outlet Shape: Unknown

Outlet Drop/Grade: Clogged/Collapsed/Submerged

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

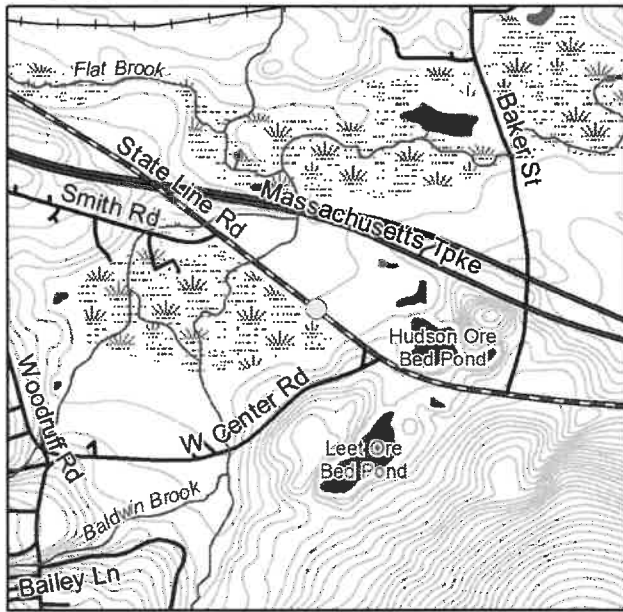
Width: 0.0, Height: 0.0

Substrate/Water Width: 0.0

Water Depth: 0.00

Road: State Line Road, Route 102

Stream: Unnamed



RESULTS

Barrier Evaluation: Moderate barrier

Aquatic Organism Passage Score: 0.56

Town Comments on Flooding/Condition/

Maintenance: No comment

Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.339830, -73.397020

Location Description: State Line Road, parallel to the road crossing a pull off at the gate for a solar panel field

Date Observed: 2020-07-15

Crossing Code: xy4233983073397020

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Severe

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

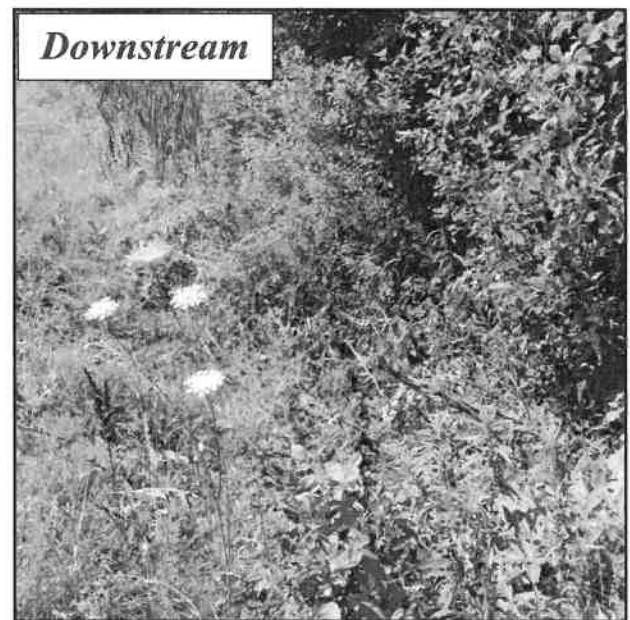
Scour Pool: None

Bankfull Width (feet): 5.0

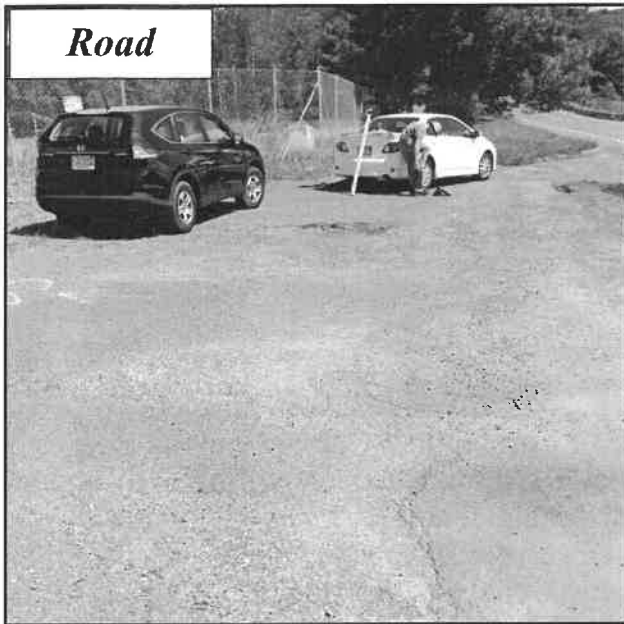
Water Depth/Velocity Matches Stream: No-Shallower/Yes

Structure Substrate Type: None

Structure Substrate Matches Stream? None



Crossing Comments: Appears to be for stormwater runoff



ROAD

Road Type: Paved

Road Fill Height (feet): 1.36

Road Ownership: State

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	20.02	2.36	0.84	No
5	22.52		0.87	No
10	24.08		0.9	No
25	25.91		0.92	No
50	27.19		0.94	No
100	28.4		0.96	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 130

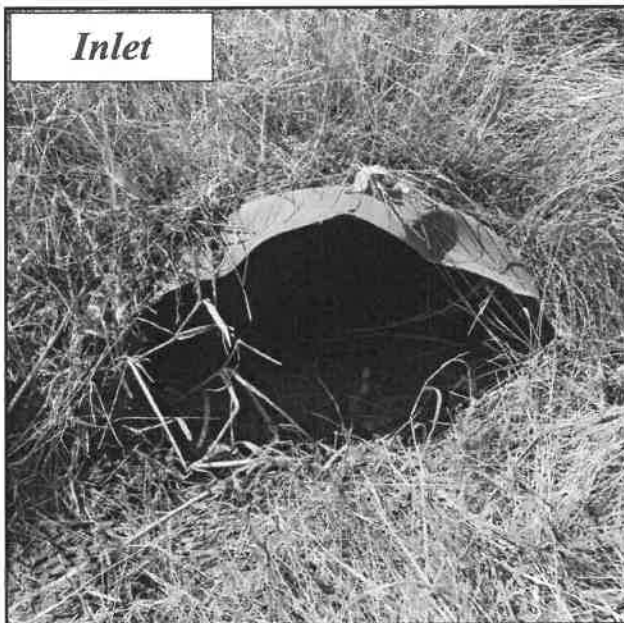
Dry Passage/Height: No

Outlet Armoring: None

Physical Barrier(s) (Severity): Dry (Minor)

Slope (%): 1

Structure Comments: Inlet is half buried



INLET

Inlet Shape/Type: Pipe Arch/Elliptical Culvert/Projecting

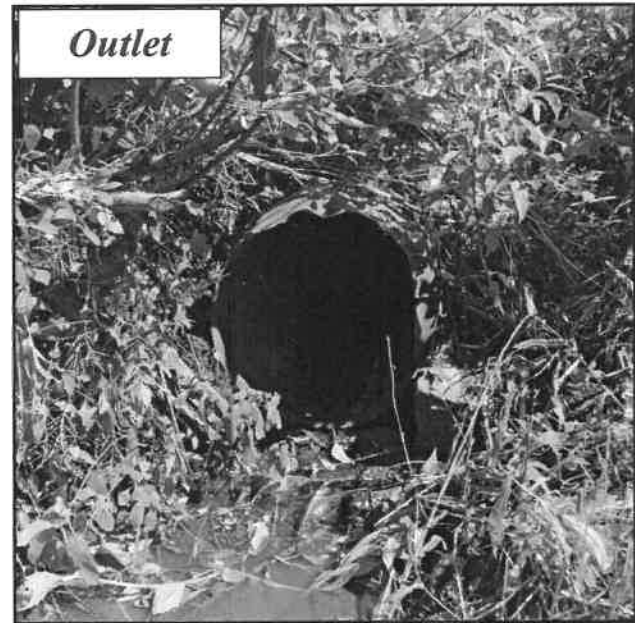
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 1.6, Height: 1

Substrate/Water Width: 0

Water Depth: 0



OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: Cascade

Drop to Stream Surface/Bottom: 0.2/0.3

Dimensions:

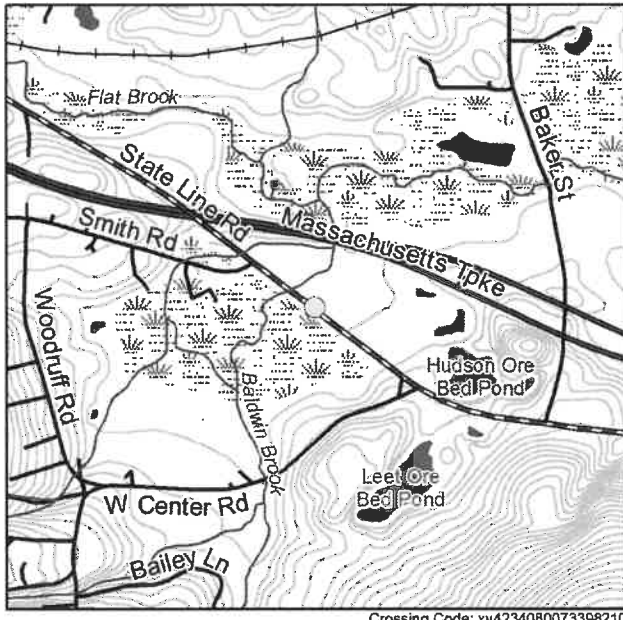
Width: 1.5, Height: 1.6

Substrate/Water Width: 0.0

Water Depth: 0.00

Road: State Line Road, Route 102

Stream: Unnamed



RESULTS

Barrier Evaluation: Minor barrier

Aquatic Organism Passage Score: 0.73

Town Comments on Flooding/Condition/

Maintenance: No comment

Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.340800, -73.398210

Location Description: Culvert actually crosses parallel to the road, under a pull-off area next to a high voltage fence.

Date Observed: 2020-07-15

Crossing Code: xy4234080073398210

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Moderate

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

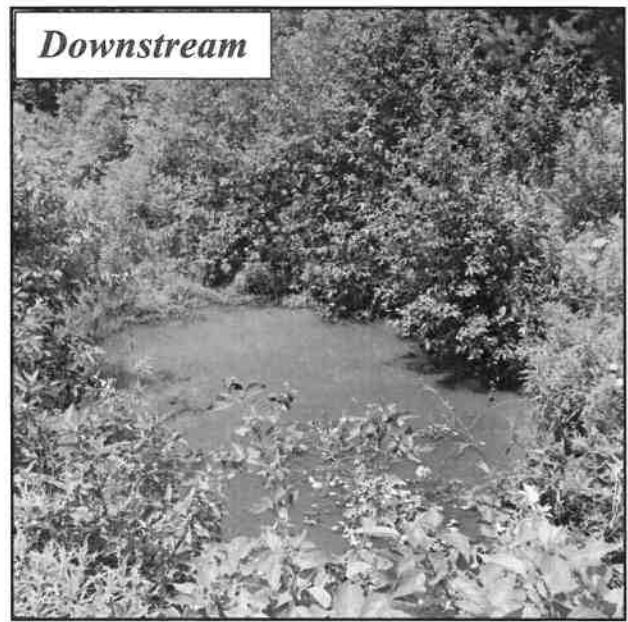
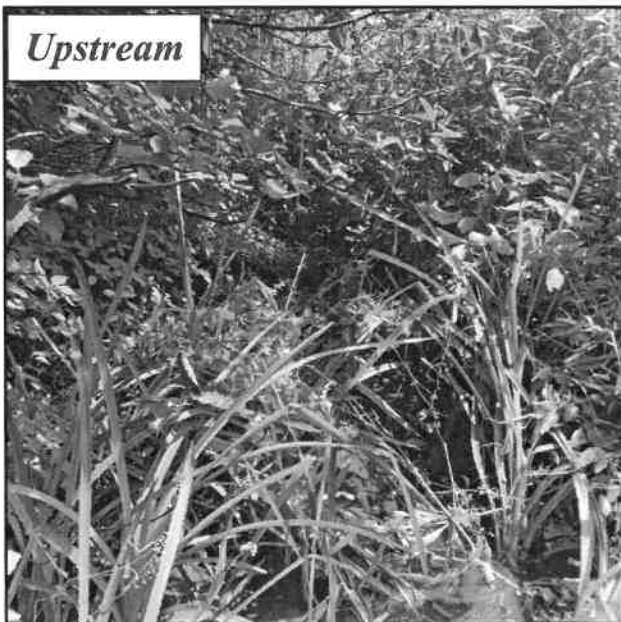
Scour Pool: Small

Bankfull Width (feet): 6.0

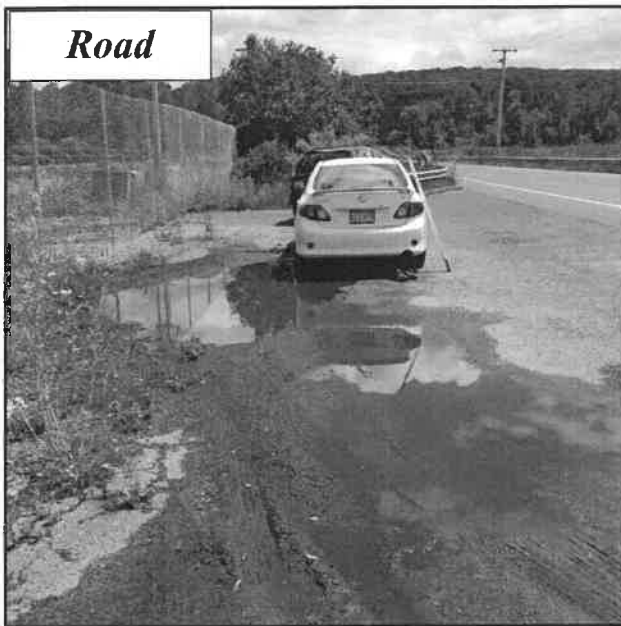
Water Depth/Velocity Matches Stream: No-Shallower/Yes

Structure Substrate Type: Silt

Structure Substrate Matches Stream? Comparable



Crossing Comments: No data



Road

ROAD

Road Type: Paved

Road Fill Height (feet): 3.37

Road Ownership: State

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	480.03	6.57	2.1	No
5	537.12		2.47	No
10	572.73		2.71	No
25	614.81		3.01	No
50	644.27		3.22	No
100	672.31		3.43	No

STRUCTURE 1 OF 1

Material: Metal

Length (feet): 112

Dry Passage/Height: No

Outlet Armoring: None

Physical Barrier(s) (Severity): Debris/Sediment/Rock (Minor)

Slope (%): 0

Structure Comments: No data



Inlet

INLET

Inlet Shape/Type: Round Culvert/Projecting

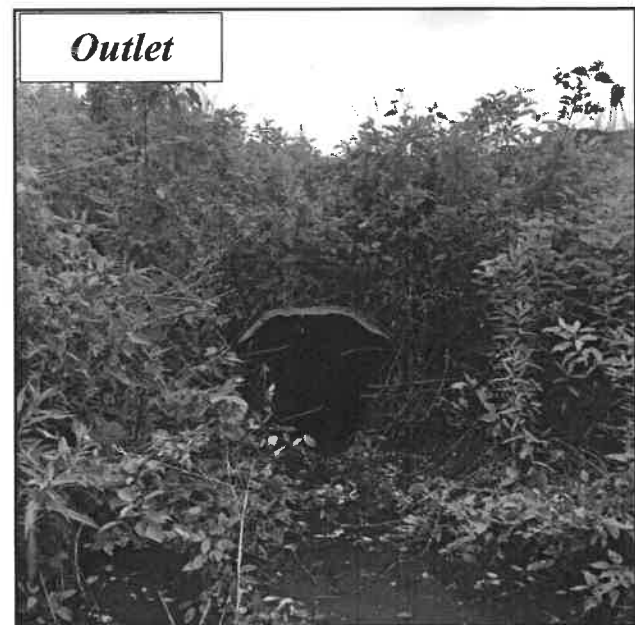
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 3.2, Height: 3.2

Substrate/Water Width: 2.7

Water Depth: 0.4



Outlet

OUTLET

Outlet Shape: Round Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

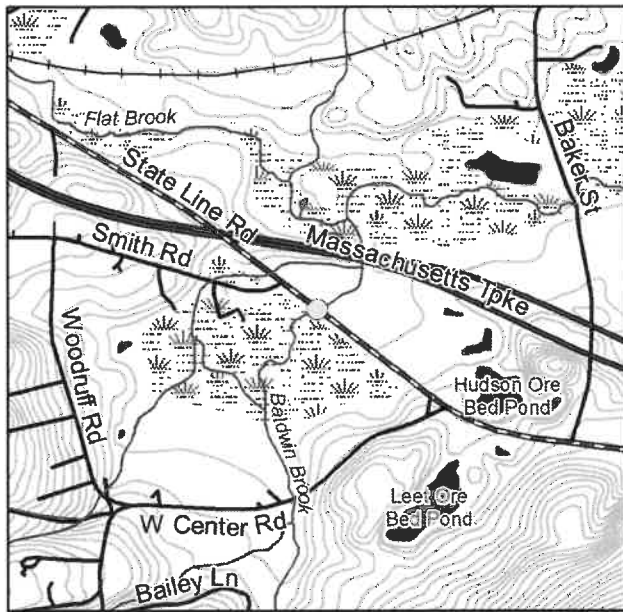
Width: 3.7, Height: 3.2

Substrate/Water Width: 1.8

Water Depth: 0.10

Road: State Line Road, Route 102

Stream: Baldwin Brook



RESULTS

Barrier Evaluation: Insignificant barrier

Aquatic Organism Passage Score: 0.94

Town Comments on Flooding/Condition/

Maintenance: No comment

Overall Ranking: Tier 11 (Ranked 33 of 45)

LOCATION

Coordinates: 42.341270, -73.399100

Location Description: On State Line Road, about 100 feet southeast of Smith Road

Date Observed: 2020-07-13

Crossing Code: xy4234135073399031

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Culvert

Number of structures/cells: 1

Condition: OK

Constriction: Moderate

Alignment: Flow-Aligned

Internal Features/Structures: None

STREAM CHARACTERISTICS

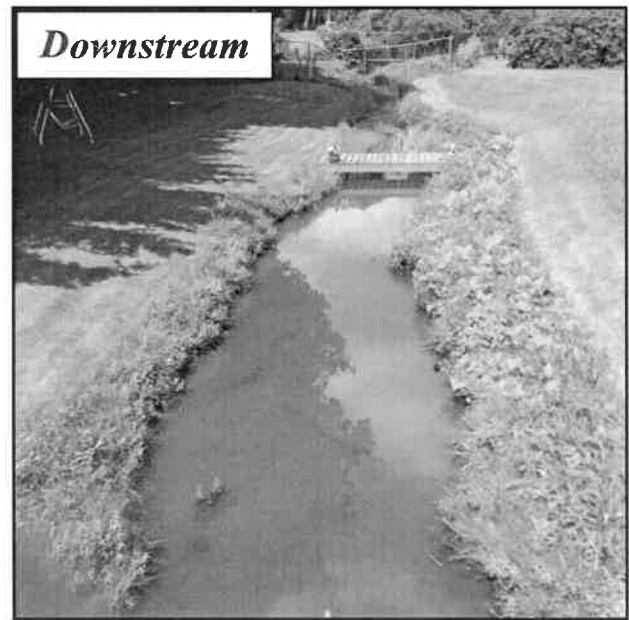
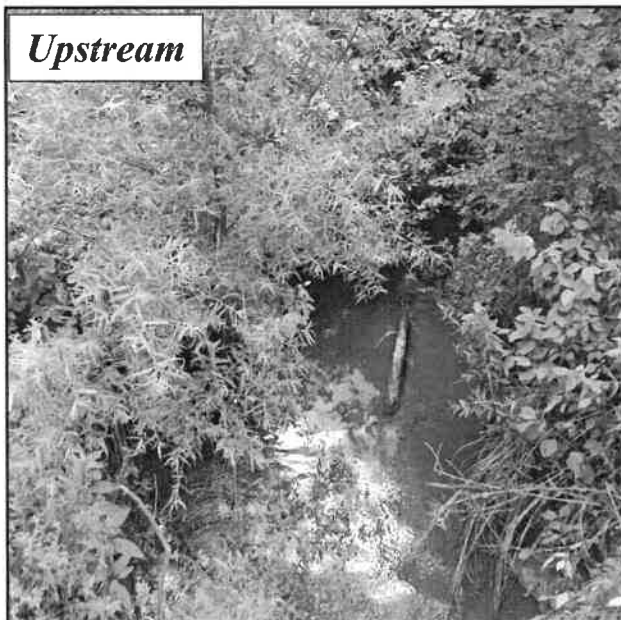
Scour Pool: None

Bankfull Width (feet): 20.0

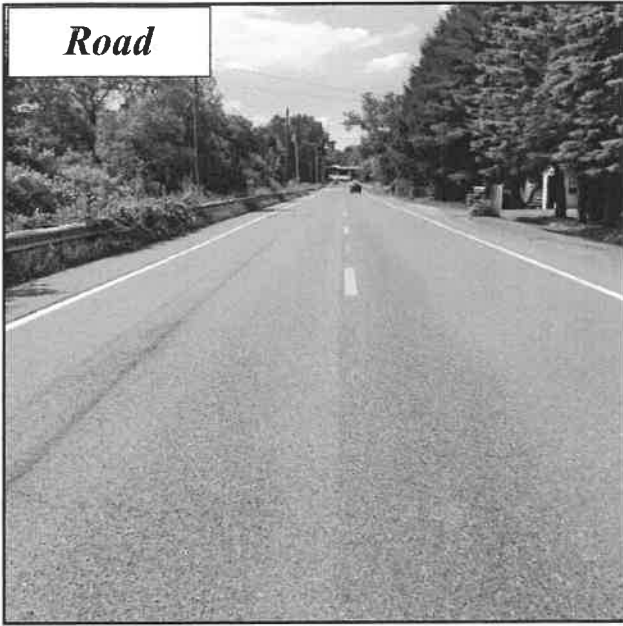
Water Depth/Velocity Matches Stream: Yes/Yes

Structure Substrate Type: Sand

Structure Substrate Matches Stream? Comparable



Crossing Comments: No data

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): 3.2

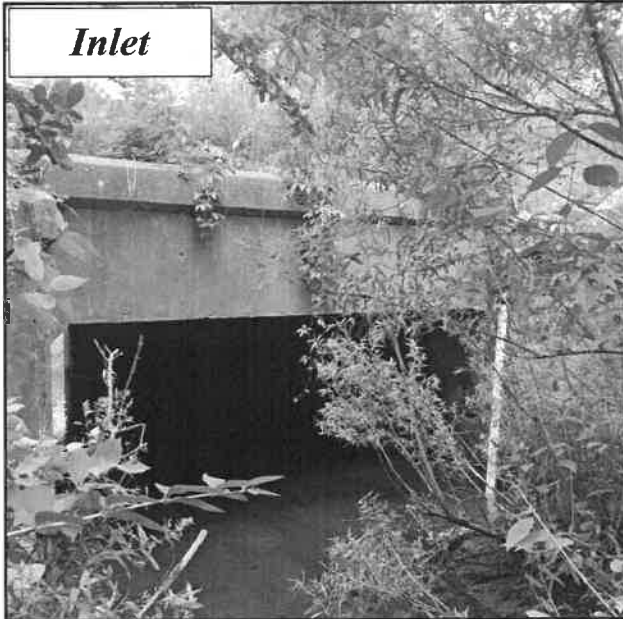
Road Ownership: State

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	480.48	8.2	4.29	No
5	537.66		4.65	No
10	573.35		4.87	No
25	615.55		5.12	No
50	645.09		5.3	No
100	673.23		5.46	No

STRUCTURE 1 OF 1

Material: Concrete
 Length (feet): 42.5
 Dry Passage/Height: No
 Outlet Armoring: None

Physical Barrier(s) (Severity): None
 Slope (%): 1
 Structure Comments: No data

Inlet**INLET**

Inlet Shape/Type: Box Culvert/Headwall and Wingwalls

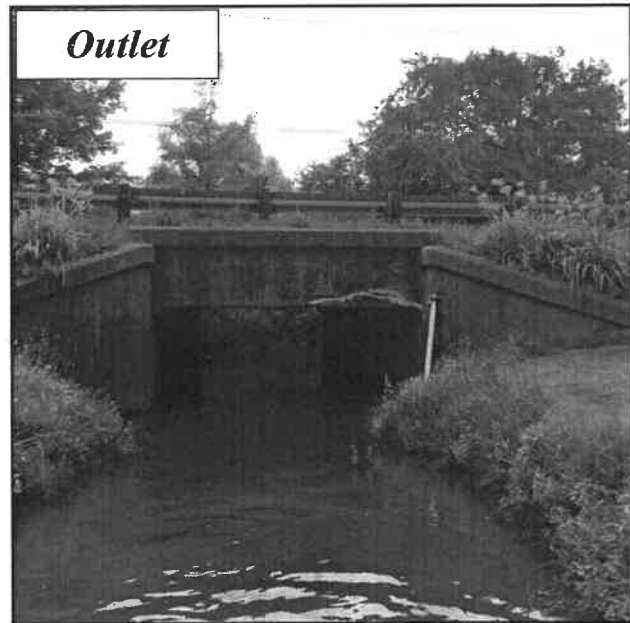
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 12.5, Height: 5

Substrate/Water Width: 12.5

Water Depth: 2.6

Outlet**OUTLET**

Outlet Shape: Box Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 12.5, Height: 5.0

Substrate/Water Width: 12.5

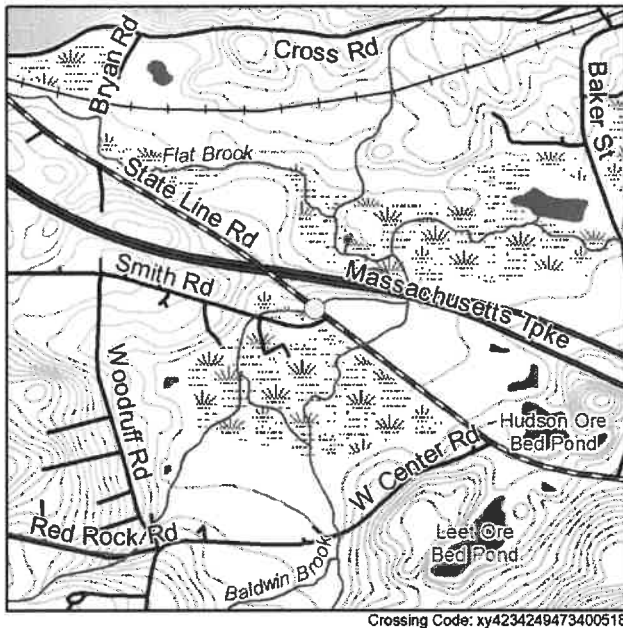
Water Depth: 0.50

ADDITIONAL PHOTO



Road: State Line Road, Route 102

Stream: Unnamed



RESULTS

Barrier Evaluation: Minor barrier
Aquatic Organism Passage Score: 0.67
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 9 (Ranked 23 of 45)

LOCATION

Coordinates: 42.342450, -73.400580
Location Description: State Line Road, about
100 feet northwest of the Smith Road intersec-
tion
Date Observed: 2020-07-13
Crossing Code: xy4234249473400518

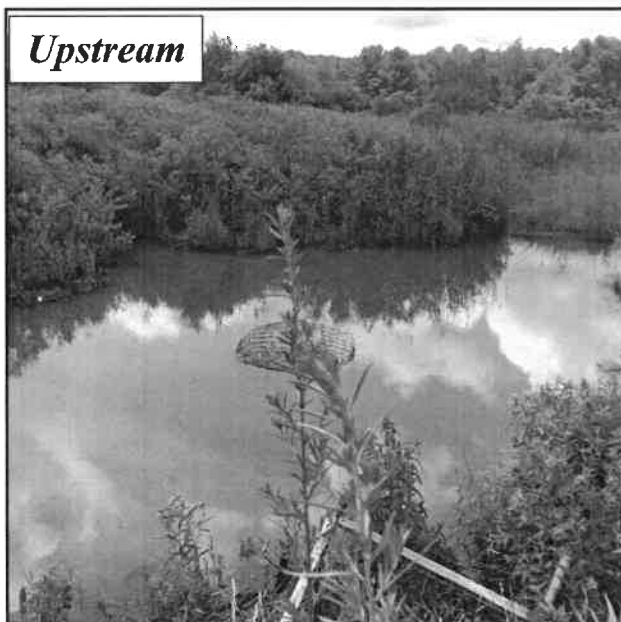
STREAM AND CROSSING

CROSSING CHARACTERISTICS

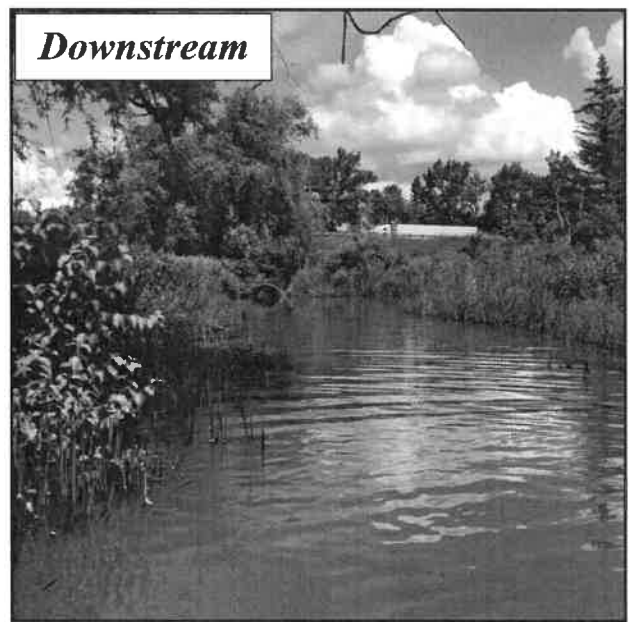
Crossing Type: Culvert
Number of structures/cells: 1
Condition: OK
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 100.0
Water Depth/Velocity Matches Stream: No-
Shallower/Yes
Structure Substrate Type: Silt
Structure Substrate Matches Stream? Compara-
ble

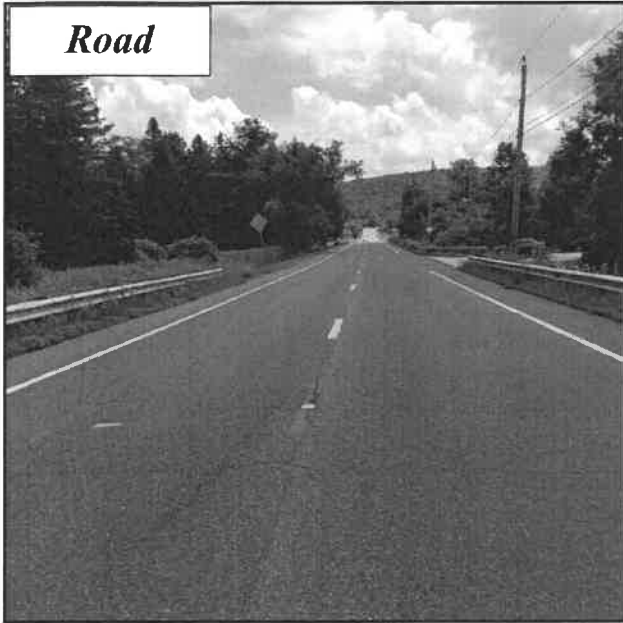


Upstream



Downstream

Crossing Comments: No data

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): 3

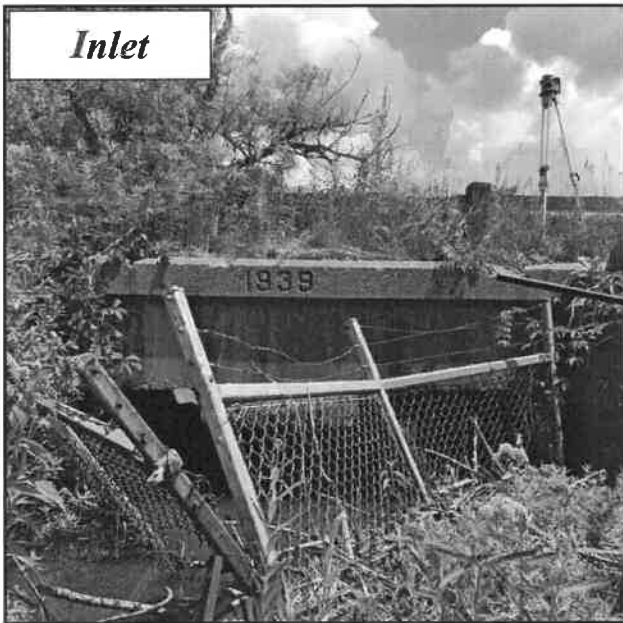
Road Ownership: State

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	482.13	8.04	1.08	No
5	539.61		1.31	No
10	575.56		1.46	No
25	618.13		1.64	No
50	647.97		1.78	No
100	676.43		1.92	No

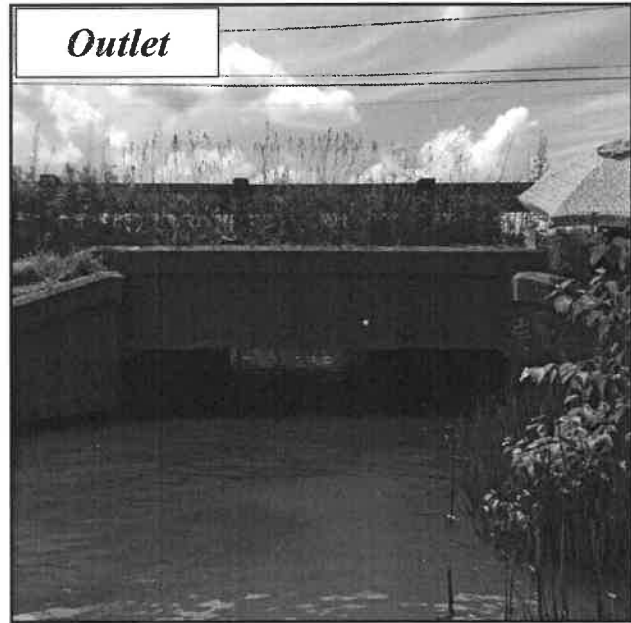
STRUCTURE 1 OF 1

Material: Concrete
 Length (feet): 42.5
 Dry Passage/Height: No
 Outlet Armoring: None

Physical Barrier(s) (Severity): Debris/Sediment/
 Rock, Fencing (Severe)
 Slope (%): 0
 Structure Comments: No data

Inlet**INLET**

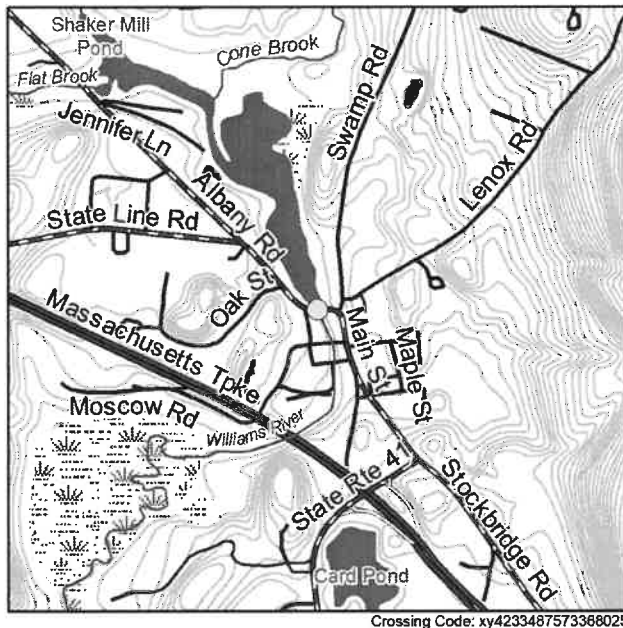
Inlet Shape/Type: Box Culvert/Headwall and Wingwalls
 Inlet Drop/Grade: At Stream Grade
 Dimensions:
 Width: 12.5, Height: 5
 Substrate/Water Width: 12.5
 Water Depth: 2.7

Outlet**OUTLET**

Outlet Shape: Box Culvert
 Outlet Drop/Grade: At Stream Grade
 Drop to Stream Surface/Bottom: 0.0/0.0
 Dimensions:
 Width: 12.5, Height: 4.2
 Substrate/Water Width: 12.5
 Water Depth: 2.24

Road: Albany Road, Route 102

Stream: Williams River



RESULTS

Barrier Evaluation: Minor barrier
Aquatic Organism Passage Score: 0.72
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Not ranked

LOCATION

Coordinates: 42.334820, -73.368030
Location Description: Route 102 bridge adjacent
to Depot Street
Date Observed: 2020-08-31
Crossing Code: xy4233487573368025

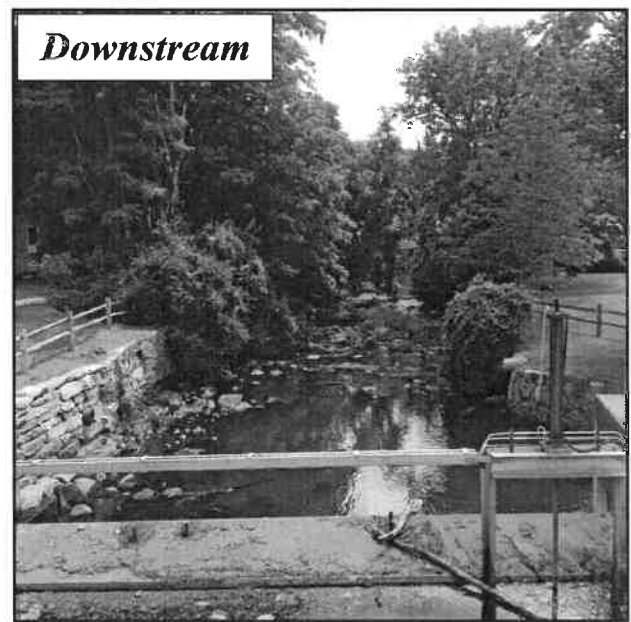
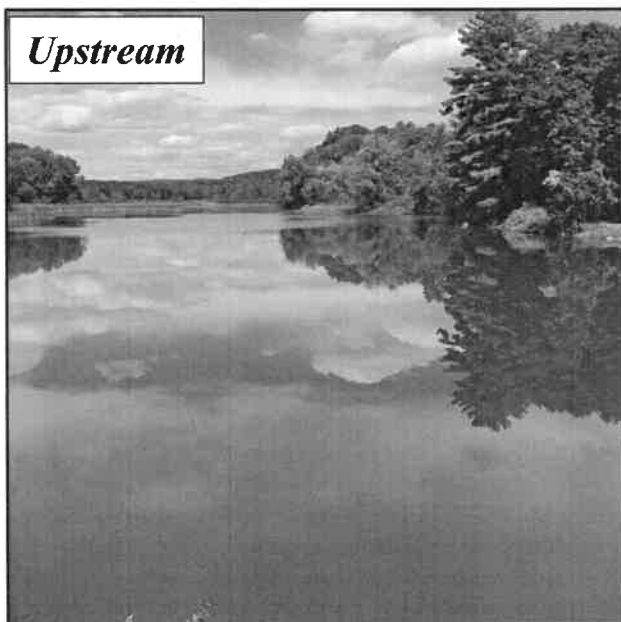
STREAM AND CROSSING

CROSSING CHARACTERISTICS

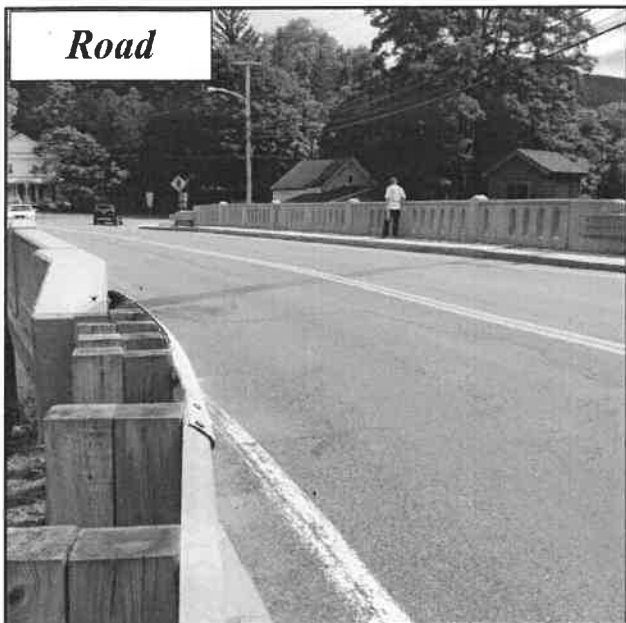
Crossing Type: Bridge
Number of structures/cells: 1
Condition: OK
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 100.0
Water Depth/Velocity Matches Stream: No-
Deeper/No-Slower
Structure Substrate Type: Unknown
Structure Substrate Matches Stream? Unknown



Crossing Comments: Bridge built 2007; outlet of Shaker Mill Pond to the Williams River

Road**ROAD**

Road Type: Paved

Road Fill Height (feet): 0

Road Ownership: State

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	2734.5	No data		
5	3078.23			
10	3294.47			
25	3551.68			
50	3732.62			
100	3905.76			

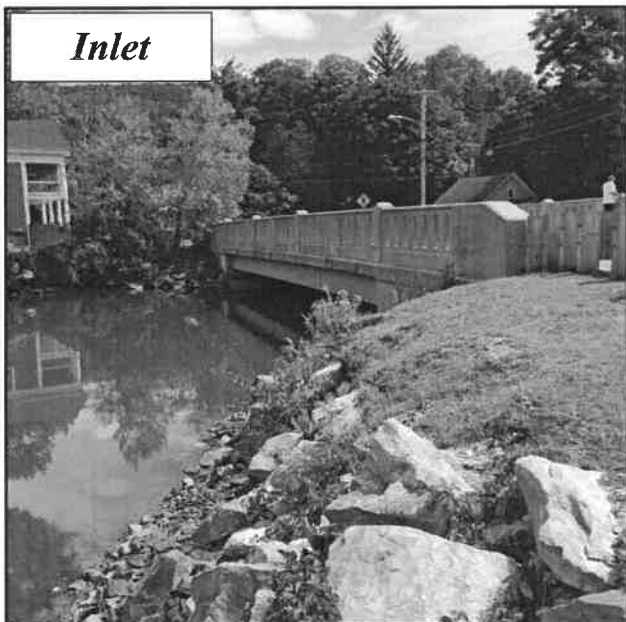
STRUCTURE 1 OF 1

Material: Concrete
 Length (feet): 40
 Dry Passage/Height: No
 Outlet Armoring: None

Physical Barrier(s) (Severity): Other (Severe)

Slope (%): 0

Structure Comments: Dam spillway at outlet is approximately 12 feet high. Height and water depth estimated as it was inaccessible to measure. Water depth and velocity matches upstream Shaker Mill Pond but not the river downstream. Structure substrate is unknown, but it is assumed to be 100 percent as it is a bridge.

Inlet**INLET**

Inlet Shape/Type: Box/Bridge with Abutments/
 Headwall and Wingwalls

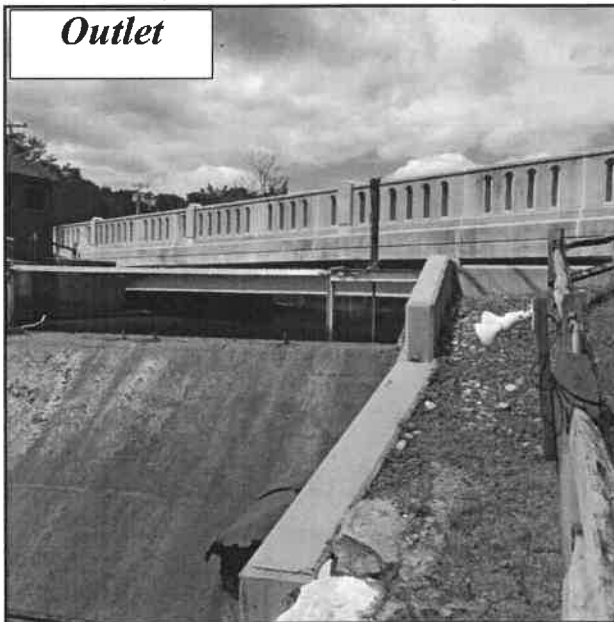
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 73, Height: 10

Substrate/Water Width: 44

Water Depth: 6

Outlet**OUTLET**

Outlet Shape: Box/Bridge with Abutments

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

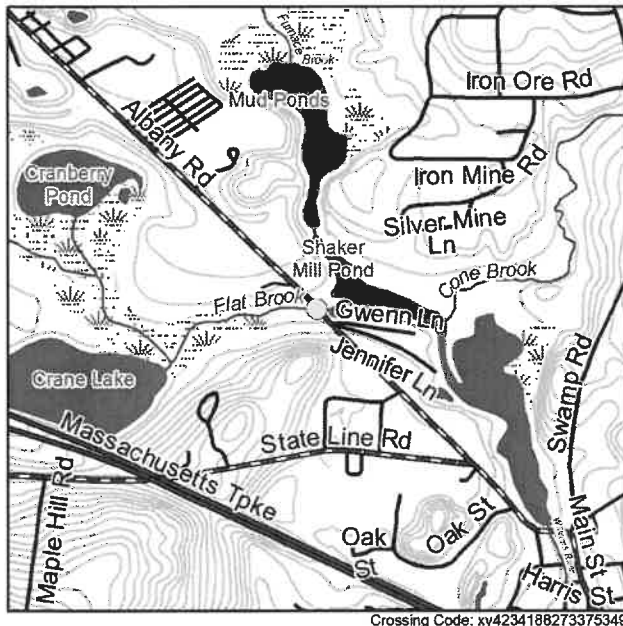
Width: 73.0, Height: 10.0

Substrate/Water Width: 44.0

Water Depth: 6.00

Road: Albany Road, Route 41

Stream: Unnamed



RESULTS

Barrier Evaluation: Insignificant barrier
Aquatic Organism Passage Score: 0.91
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: *Not ranked*

LOCATION

Coordinates: 42.341980, -73.375620
Location Description: Bridge on Albany Road,
Route 41, north of Gwenn Lane
Date Observed: 2020-07-14
Crossing Code: xy4234188273375349

STREAM AND CROSSING

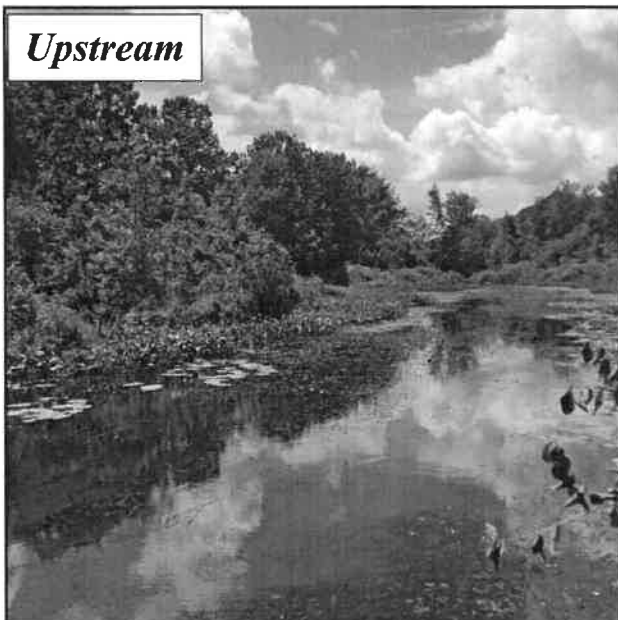
CROSSING CHARACTERISTICS

Crossing Type: Bridge
Number of structures/cells: 1
Condition: OK
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: None

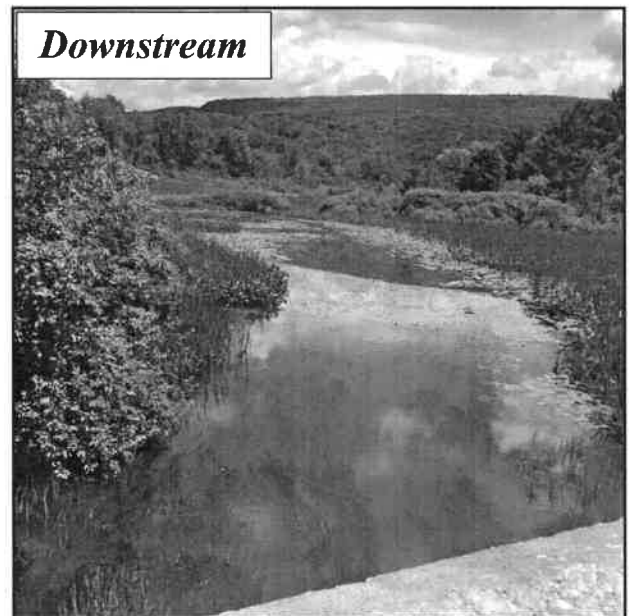
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 100.0
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: Silt
Structure Substrate Matches Stream? Comparable

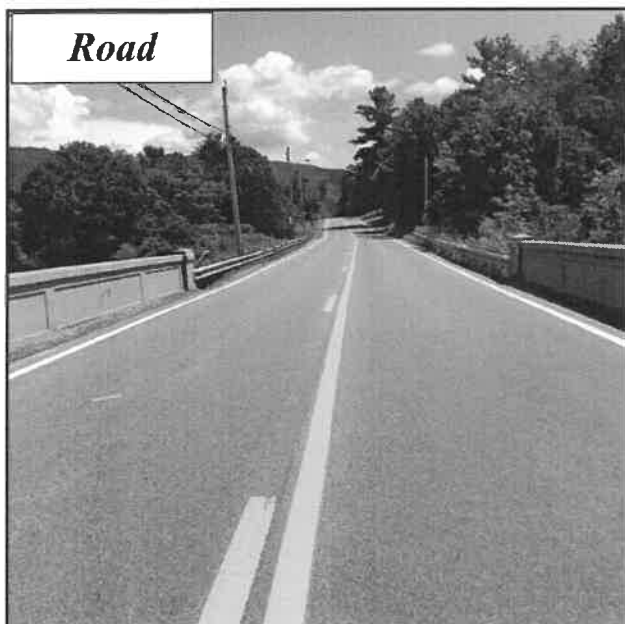
Upstream



Downstream



Crossing Comments: Some crumbling of the concrete on the right side of the inlet. Built in 1924. Connects Crane Lake with Shaker Mill Pond, possibly Flat Brook

Road

ROAD

Road Type: Paved

Road Fill Height (feet): 0

Road Ownership: State

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	1866.41	No data		
5	2105.74			
10	2254.04			
25	2428.68			
50	2550.47			
100	2665.83			

STRUCTURE 1 OF 1

Material: Concrete

Length (feet): 31

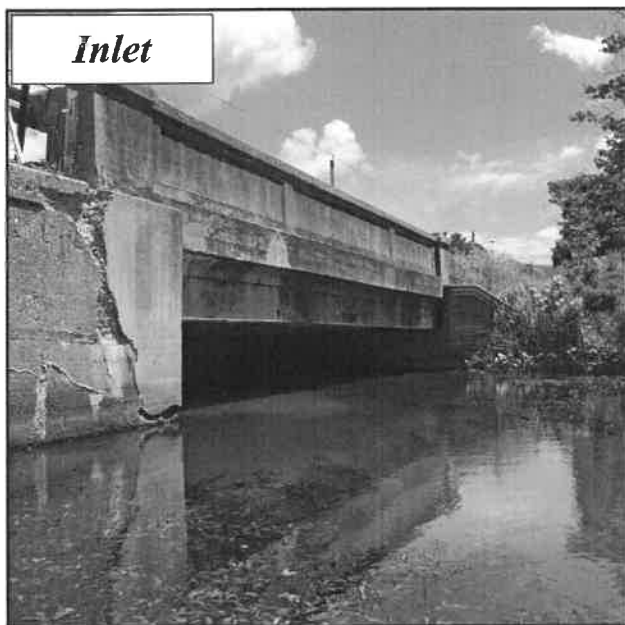
Dry Passage/Height: No

Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: No data

Inlet

INLET

Inlet Shape/Type: Box/Bridge with Abutments/Wingwalls

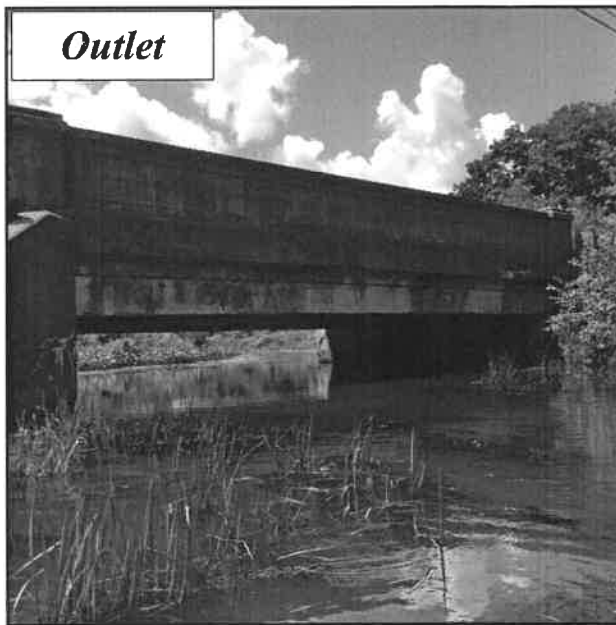
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 37, Height: 9.5

Substrate/Water Width: 37

Water Depth: 5.5

Outlet

OUTLET

Outlet Shape: Box/Bridge with Abutments

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 37.0, Height: 8.1

Substrate/Water Width: 37.0

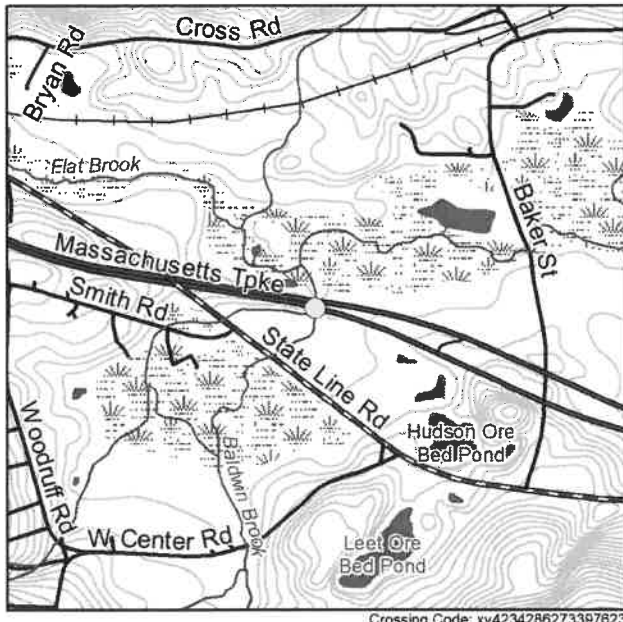
Water Depth: 4.50

Federal Crossings

Entries are organized geographically by Map Index Key,
beginning with 1A

Road: I-90

Stream: Baldwin Brook



RESULTS

Barrier Evaluation: Insignificant barrier
Aquatic Organism Passage Score: 0.97
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 10 (Ranked 25 of 45)

LOCATION

Coordinates: 42.342750, -73.397610
Location Description: This box culvert can be accessed from the South, with landowner permission only, from Three Maples Market Garden, 98 State Line Road aka route 102.
Date Observed: 2018-06-13
Crossing Code: xy4234286273397623

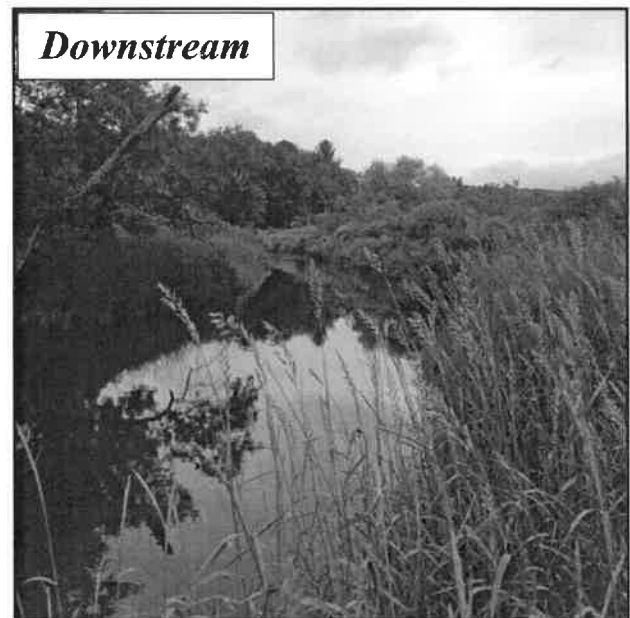
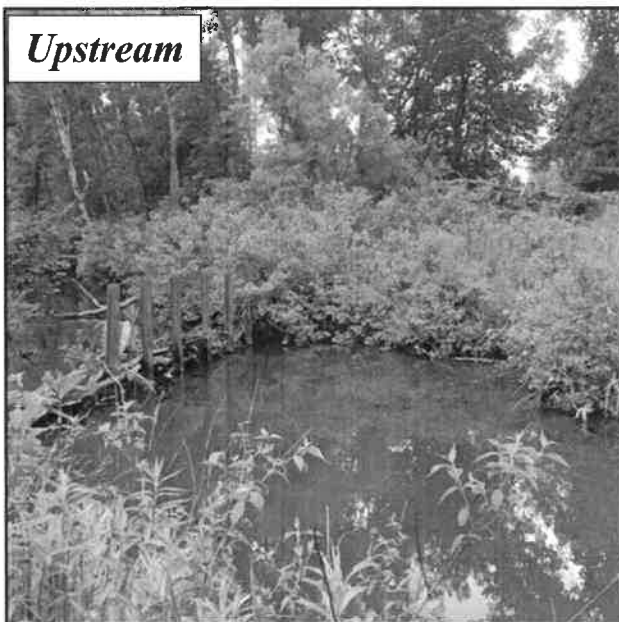
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Multiple Culvert
Number of structures/cells: 3
Condition: OK
Constriction: Spans Only Bankfull/Active Channel
Alignment: Flow-Aligned
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: Small
Bankfull Width (feet): 0.0
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: Silt
Structure Substrate Matches Stream? Comparable



Crossing Comments: This culvert extends across both spans of the Mass Pike and the median. In the database it is shown as two crossings, but there is only a single one.

ROAD

Road Type: Multilane road (>2 lanes)

Road Fill Height (feet): 2

Road Ownership: Federal

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	482.9	No data		
5	540.48			
10	576.52			
25	619.2			
50	649.12			
100	677.67			

STRUCTURE 1 OF 3

Material: Concrete

Length (feet): 142

Dry Passage/Height: No

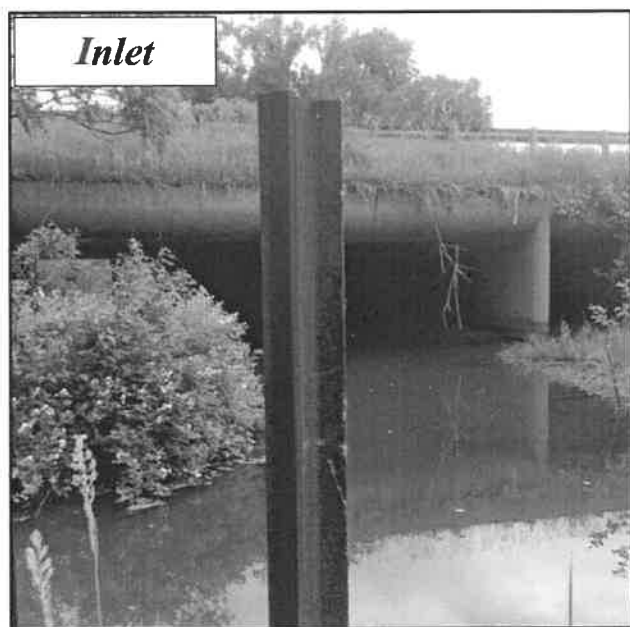
Outlet Armoring: None

Physical Barrier(s) (Severity): None

Slope (%): No data

Structure Comments: Cell 1 of this culvert is full of water, as is cell 2.

Cell 3 is completely dry and likely provides year-round terrestrial passage.

**INLET**

Inlet Shape/Type: Box Culvert/Wingwalls

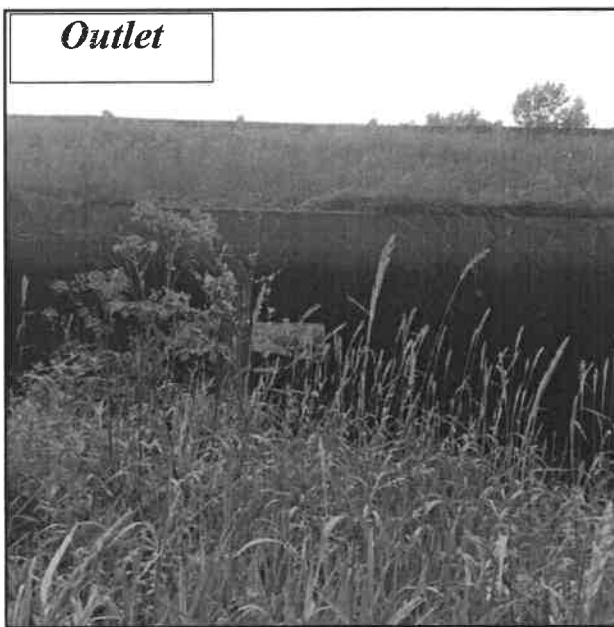
Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 16, Height: 7

Substrate/Water Width: 16

Water Depth: 1.4

**OUTLET**

Outlet Shape: Box Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 16.0, Height: 7.0

Substrate/Water Width: 16.0

Water Depth: 1.50

STRUCTURE 2 OF 3

Material: Concrete
Length (feet): 142
Dry Passage/Height (feet): No

Physical Barrier(s)/Severity: None
Slope (%): No data
Structure Comments: Cell 1 of this culvert is full of water, as is cell 2. Cell 3 is completely dry and likely provides year-round terrestrial passage.

INLET

Inlet Shape/Type: Box Culvert/None
Inlet Drop/Grade: At Stream Grade
Dimensions (feet):
 Width: 16, Height: 16
 Substrate/Water Width: 16
 Water Depth: 1.5

OUTLET

Outlet Shape: Box Culvert
Outlet Drop/Grade: At Stream Grade
Drop to Stream Surface/Bottom (feet): 0/0
Dimensions (feet):
 Width: 16, Height: 7
 Substrate/Water Width: 16
 Water Depth: 1.5

STRUCTURE 3 OF 3

Material: Concrete
Length (feet): 142
Dry Passage/Height (feet): Yes (5.8)

Physical Barrier(s)/Severity: Debris/Sediment/Rock (Severe)
Slope (%): No data
Structure Comments: Cell 1 of this culvert is full of water, as is cell 2. Cell 3 is completely dry and likely provides year-round terrestrial passage.

INLET

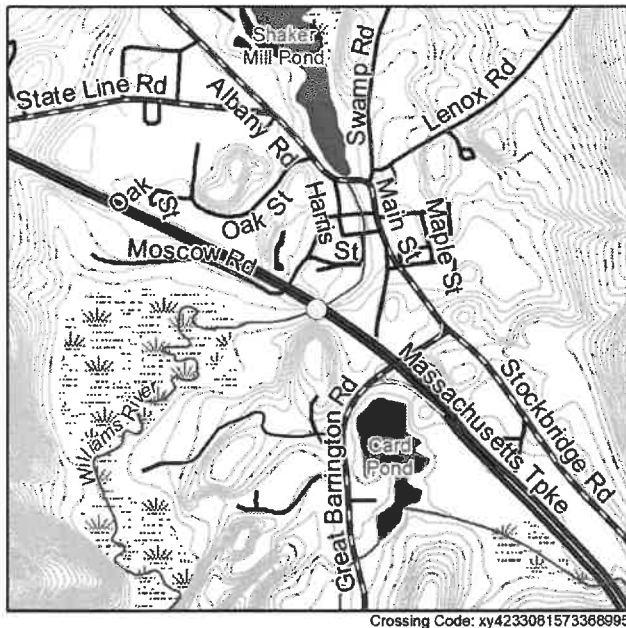
Inlet Shape/Type: Box Culvert/Wingwalls
Inlet Drop/Grade: At Stream Grade
Dimensions (feet):
 Width: 16, Height: 7
 Substrate/Water Width: 0
 Water Depth: 0

OUTLET

Outlet Shape: Box Culvert
Outlet Drop/Grade: At Stream Grade
Drop to Stream Surface/Bottom (feet): 0/0
Dimensions (feet):
 Width: 16, Height: 7
 Substrate/Water Width: 3
 Water Depth: 1.5

Road: I-90

Stream: Williams River



RESULTS

Barrier Evaluation: No barrier
Aquatic Organism Passage Score: 1
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Not ranked

LOCATION

Coordinates: 42.330800, -73.369200
Location Description: Bridge easily accessed by
taking Moscow Road south, crossing underneath
I-90, and parking on your right at W. Stock-
bridge building.
Date Observed: 2018-06-13
Crossing Code: xy4233081573368995

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Bridge Adequate
Number of structures/cells: 1
Condition: OK
Constriction: No data
Alignment: No data
Internal Features/Structures: No data

STREAM CHARACTERISTICS

Scour Pool: No data
Bankfull Width (feet): 0.0
Water Depth/Velocity Matches Stream: /
Structure Substrate Type:
Structure Substrate Matches Stream?

Crossing Comments: This crossing provides adequate aquatic and terrestrial passage. See
terrestrial passage assessment for details.

ROAD

Road Type: Multilane road (>2 lanes)

Road Fill Height (feet): No data

Road Ownership: Federal

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	2792.9	No data		
5	3144.71			
10	3366.04			
25	3629.32			
50	3814.54			
100	3991.78			

STRUCTURE 1 OF 1

Material: No data

Length (feet): No data

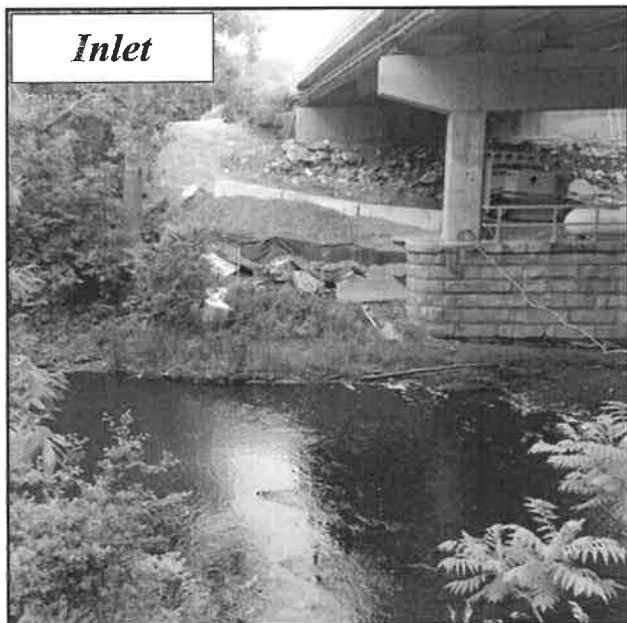
Dry Passage/Height: No data

Outlet Armoring:

Physical Barrier(s) (Severity): No data

Slope (%): No data

Structure Comments: No data



Inlet

INLET

Inlet Shape/Type: /

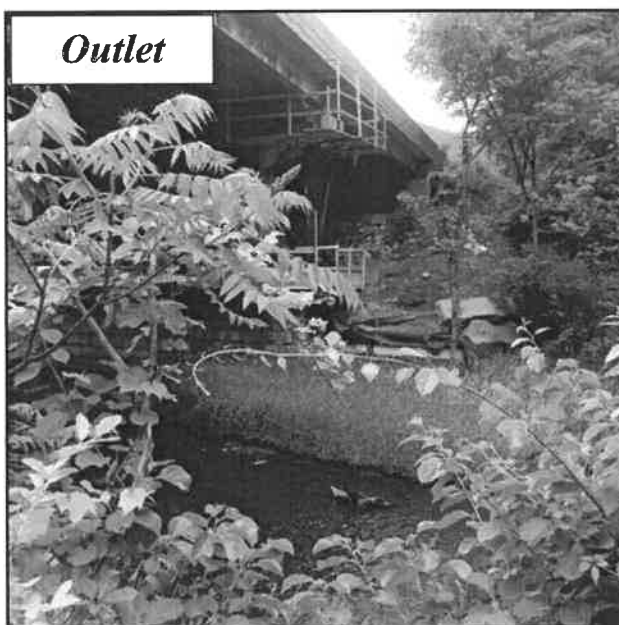
Inlet Drop/Grade:

Dimensions:

Width: No data, Height: No data

Substrate/Water Width: No data

Water Depth: No data



Outlet

OUTLET

Outlet Shape:

Outlet Drop/Grade:

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 0.0, Height: 0.0

Substrate/Water Width: 0.0

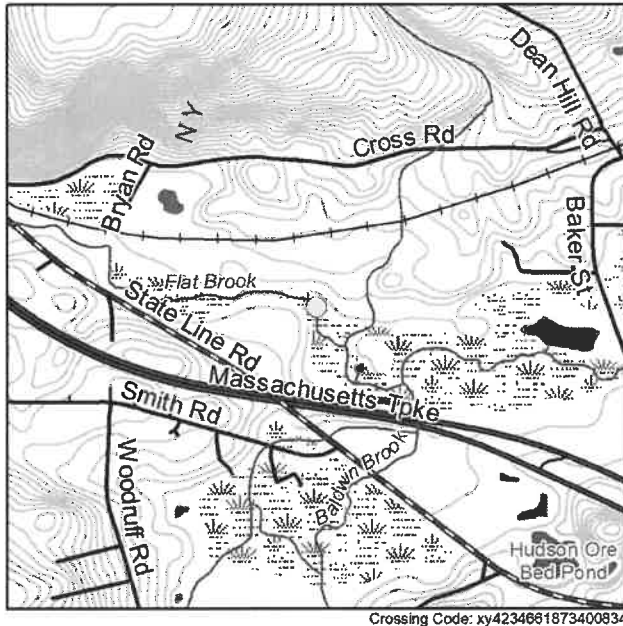
Water Depth: 0.00

Private/Other Crossings

Entries are organized geographically by Map Index Key,
beginning with 1A

Road: Trail

Stream: Flat Brook



RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 10 (Ranked 25 of 45)

LOCATION

Coordinates: 42.346520, -73.400580
Location Description: Crossing does not exist on
a road - appears to be on an old railroad trail bed
Date Observed: 2020-08-04
Crossing Code: xy4234661873400834

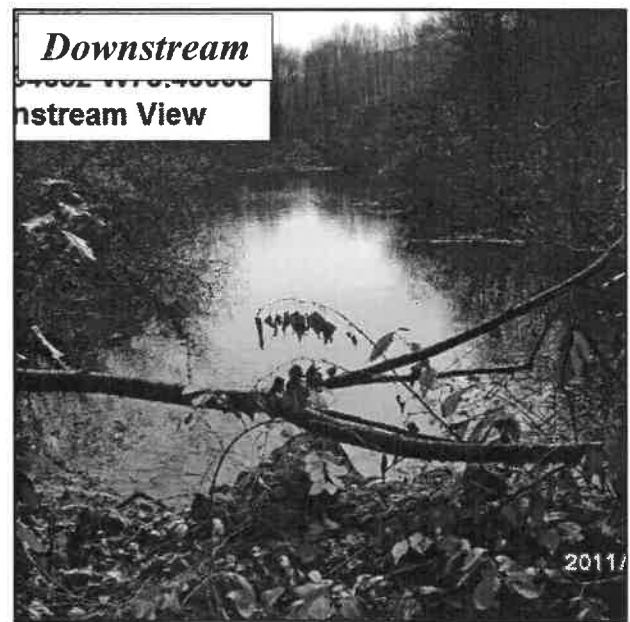
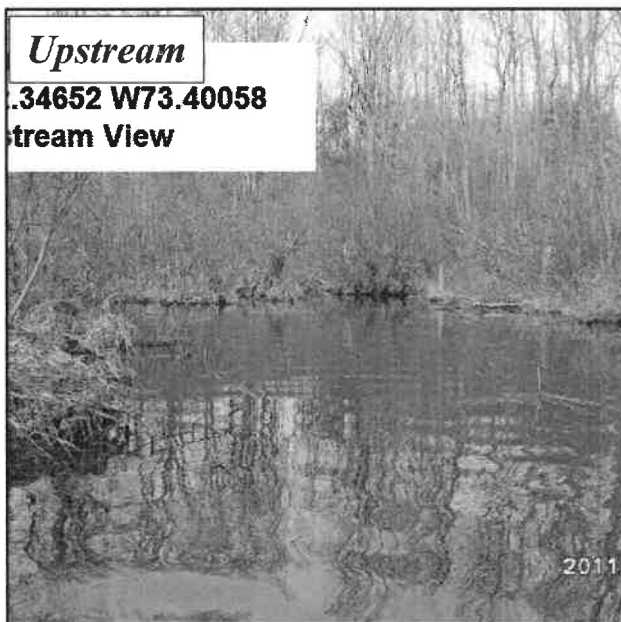
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Partially Inaccessible
Number of structures/cells: 2
Condition: Unknown
Constriction: Severe
Alignment: No data
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: Small
Bankfull Width (feet): 100.0
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: Unknown
Structure Substrate Matches Stream? Unknown



Crossing Comments: Unable to find crossing in 2020. Data and photos taken from original assessment in 2011.

ROAD

Road Type: Trail

Road Fill Height (feet): No data

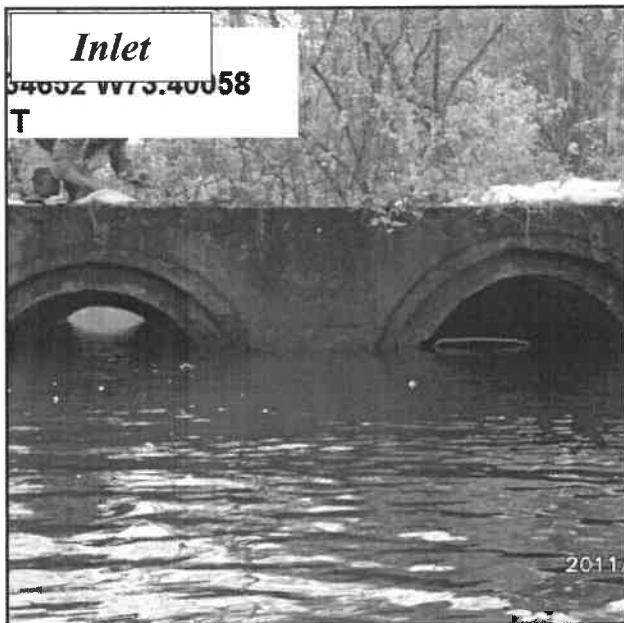
Road Ownership: Private

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	673.27	No data		
5	761.37			
10	815.07			
25	877.63			
50	920.73			
100	961.14			

STRUCTURE 1 OF 2

Material: Concrete
 Length (feet): 37.2
 Dry Passage/Height: No
 Outlet Armoring: None

Physical Barrier(s) (Severity): None
 Slope (%): No data
 Structure Comments: No data

**INLET**

Inlet Shape/Type: Pipe Arch/Elliptical Culvert/
 Headwall

Inlet Drop/Grade: Unknown

Dimensions:

Width: 5, Height: 0.8

Substrate/Water Width: 4

Water Depth: No data

**OUTLET**

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 5.0, Height: 1.2

Substrate/Water Width: 4.3

Water Depth: 0.00

STRUCTURE 2 OF 2

Material: Concrete
Length (feet): 37.3
Dry Passage/Height (feet): No

Physical Barrier(s)/Severity: None
Slope (%): No data
Structure Comments: No data

INLET

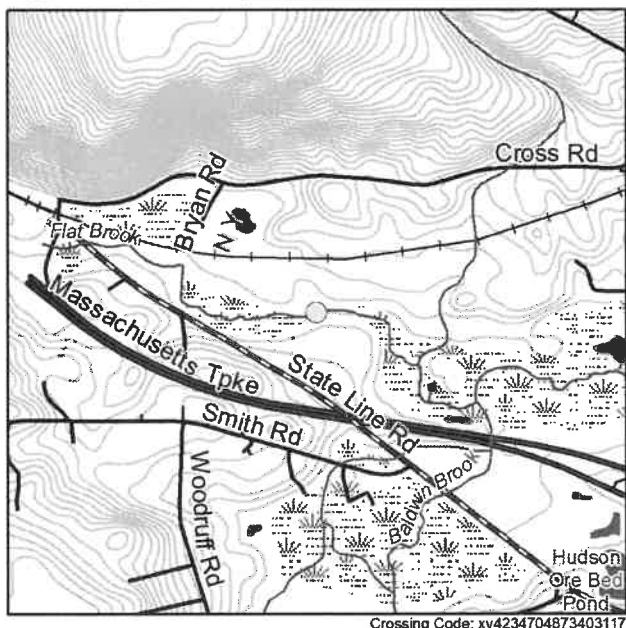
Inlet Shape/Type: Pipe Arch/Elliptical Culvert/
Headwall
Inlet Drop/Grade: At Stream Grade
Dimensions (feet):
 Width: 5, Height: 5
 Substrate/Water Width: 4
 Water Depth: No data

OUTLET

Outlet Shape: Pipe Arch/Elliptical Culvert
Outlet Drop/Grade: At Stream Grade
Drop to Stream Surface/Bottom (feet): No data/No data
Dimensions (feet):
 Width: 5, Height: 1.2
 Substrate/Water Width: 4.3
 Water Depth: No data

Road: Trail

Stream: Flat Brook



RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 10 (Ranked 25 of 45)

LOCATION

Coordinates: 42.346930, 4.000000
Location Description: Behind house 110 State
Line Road, on an abandoned railroad bed
Date Observed: 2020-08-04
Crossing Code: xy4234704873403117

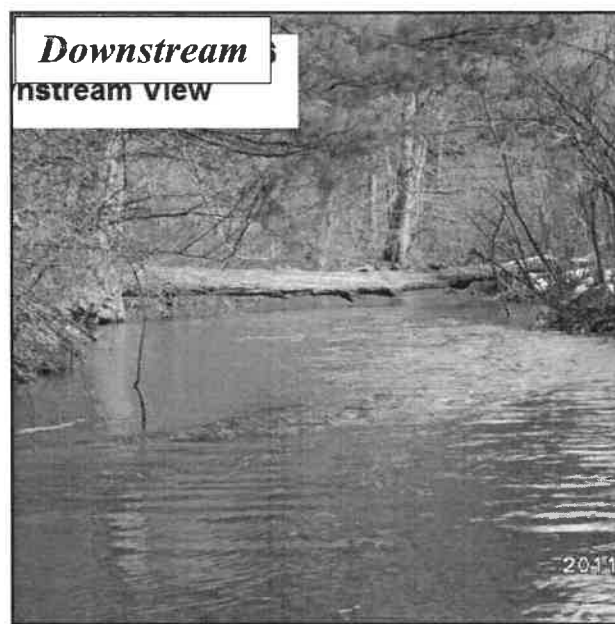
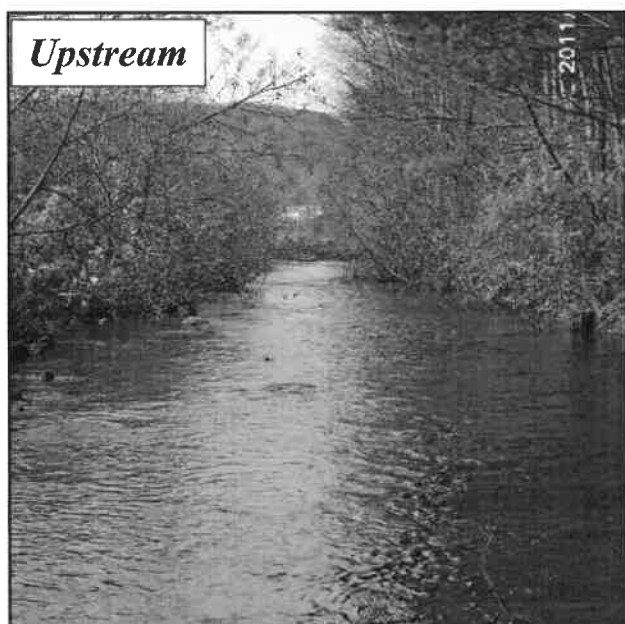
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Partially Inaccessible
Number of structures/cells: 2
Condition: Unknown
Constriction: Severe
Alignment: No data
Internal Features/Structures: None

STREAM CHARACTERISTICS

Scour Pool: No data
Bankfull Width (feet): 15.0
Water Depth/Velocity Matches Stream: No-
Deeper/Yes
Structure Substrate Type: None
Structure Substrate Matches Stream? None



Crossing Comments: Crossing impossible to find in 2020, data and photos taken from original assessment in 2011.

ROAD

Road Type: Trail

Road Fill Height (feet): No data

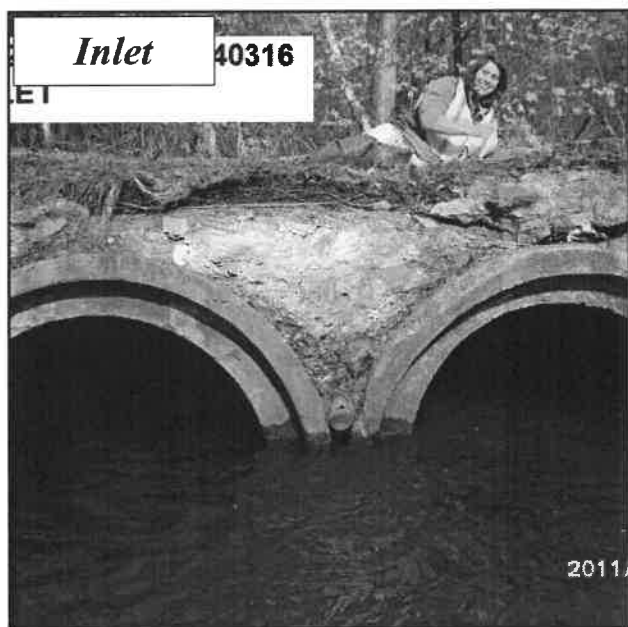
Road Ownership: Private

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	664.1	No data		
5	751.02			
10	804			
25	865.74			
50	908.29			
100	948.18			

STRUCTURE 1 OF 2

Material: Concrete
 Length (feet): 67.2
 Dry Passage/Height: No
 Outlet Armoring: None

Physical Barrier(s) (Severity): None
 Slope (%): No data
 Structure Comments: No data

**INLET**

Inlet Shape/Type: Pipe Arch/Elliptical Culvert/
 Headwall

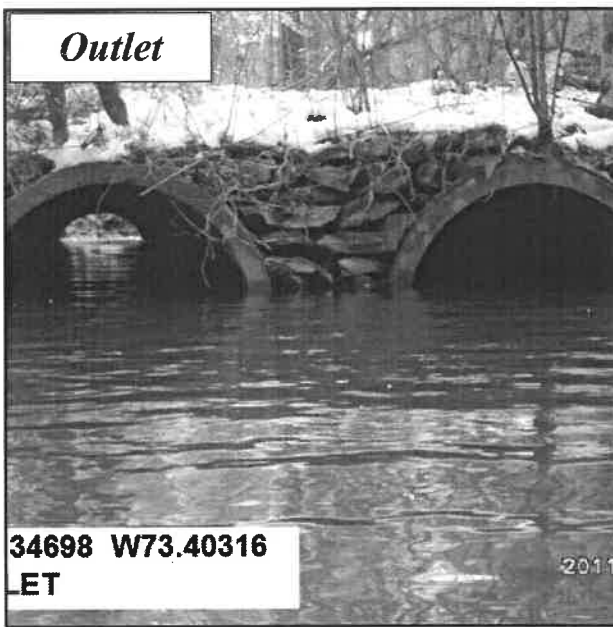
Inlet Drop/Grade: Unknown

Dimensions:

Width: 5, Height: 1.8

Substrate/Water Width: 4.7

Water Depth: No data

**OUTLET**

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: Unknown

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 5.0, Height: 2.0

Substrate/Water Width: 4.8

Water Depth: 0.00

STRUCTURE 2 OF 2

Material: Concrete
Length (feet): No data
Dry Passage/Height (feet): No

Physical Barrier(s)/Severity: None
Slope (%): No data
Structure Comments: No data

INLET

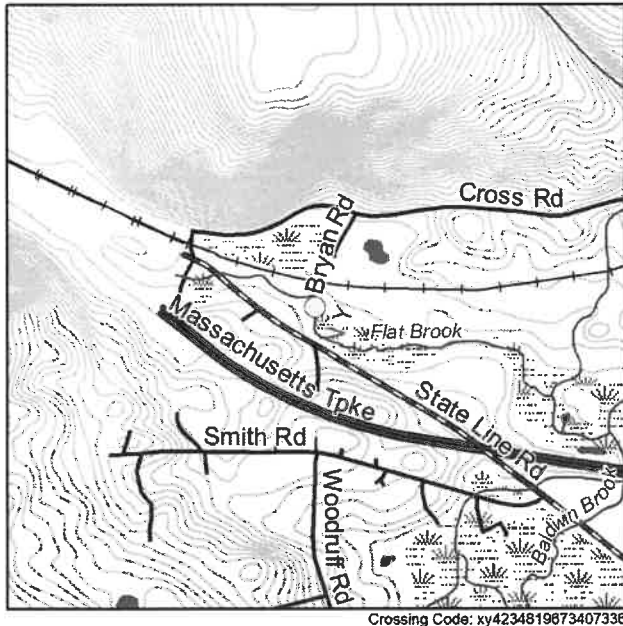
Inlet Shape/Type: Pipe Arch/Elliptical Culvert/
Inlet Drop/Grade:
Dimensions (feet):
 Width: 5, Height: 5
 Substrate/Water Width: 4.7
 Water Depth: No data

OUTLET

Outlet Shape: Pipe Arch/Elliptical Culvert
Outlet Drop/Grade: Unknown
Drop to Stream Surface/Bottom (feet): No data/No data
Dimensions (feet):
 Width: 5, Height: 2
 Substrate/Water Width: 4.8
 Water Depth: No data

Road: Trail

Stream: Flat Brook



RESULTS

Barrier Evaluation: no score - missing data
Aquatic Organism Passage Score: No data
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Tier 8 (Ranked 18 of 45)

LOCATION

Coordinates: 42.34813, -73.40735
Location Description: Off the railroad tracks,
deep in the woods
Date Observed: 2020-08-04
Crossing Code: xy4234819673407336

STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Partially Inaccessible
Number of structures/cells: 2
Condition: Poor
Constriction: Severe
Alignment: Flow-Aligned
Internal Features/Structures: No data

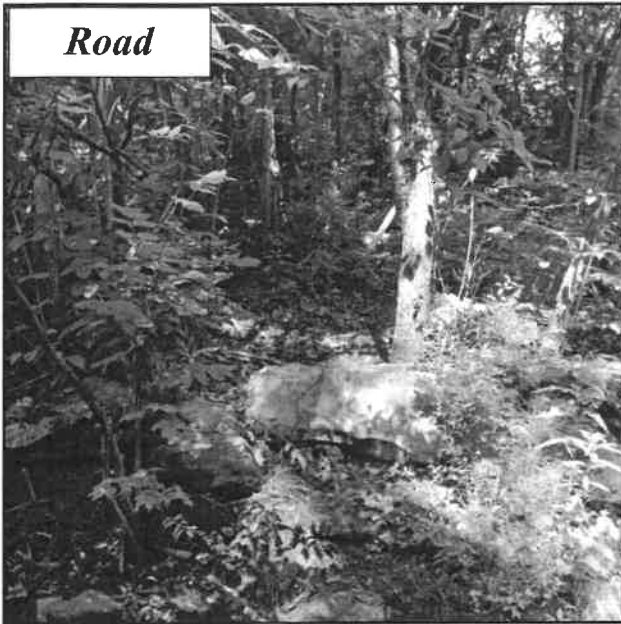
STREAM CHARACTERISTICS

Scour Pool: Large
Bankfull Width (feet): 0.0
Water Depth/Velocity Matches Stream: Yes/No-
Slower
Structure Substrate Type: Silt
Structure Substrate Matches Stream? Compara-
ble



Crossing Comments: Both inlets are buried— some data is from the older UMass survey.
Photos are also from the UMass survey.

Road



ROAD

Road Type: Trail

Road Fill Height (feet): No data

Road Ownership: Private

Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	639.41	No data		
5	723.46			
10	774.57			
25	834.02			
50	874.92			
100	913.21			

STRUCTURE 1 OF 2

Material: Concrete

Length (feet): 60

Dry Passage/Height: No

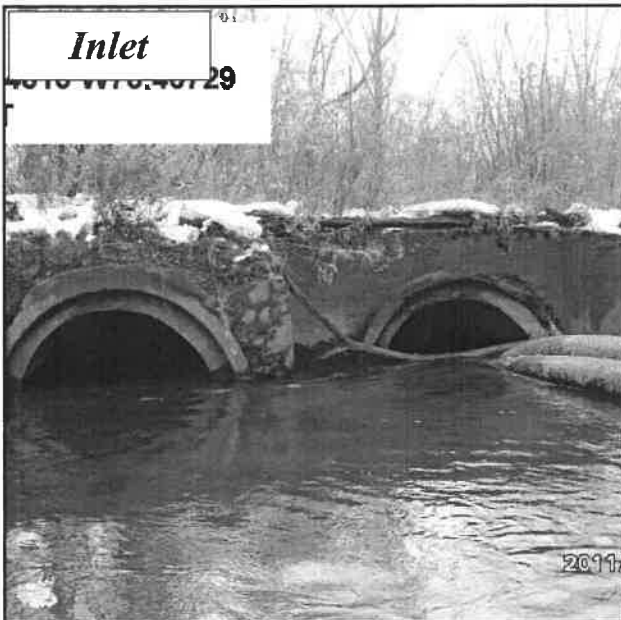
Outlet Armoring: None

Physical Barrier(s) (Severity): Debris/Sediment/
Rock, Deformation (Severe)

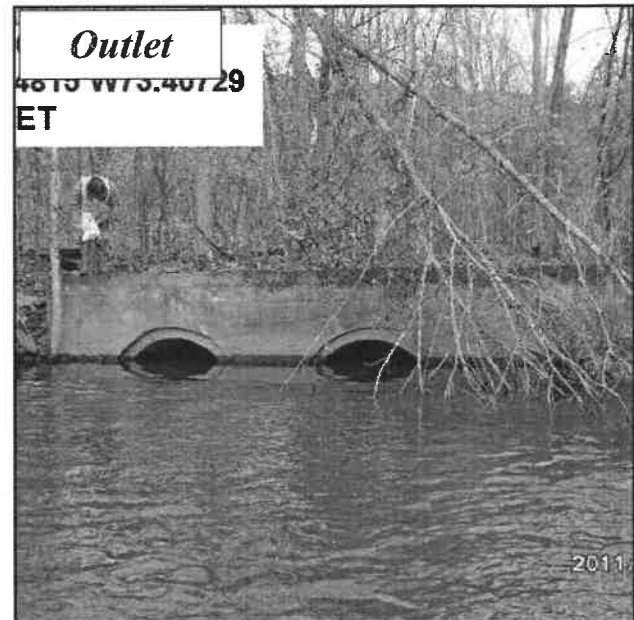
Slope (%): No data

Structure Comments: No data

Inlet



Outlet



INLET

Inlet Shape/Type: Pipe Arch/Elliptical Culvert/
Headwall

Inlet Drop/Grade: At Stream Grade

Dimensions:

Width: 5, Height: 1.7

Substrate/Water Width: 4

Water Depth: No data

OUTLET

Outlet Shape: Pipe Arch/Elliptical Culvert

Outlet Drop/Grade: At Stream Grade

Drop to Stream Surface/Bottom: 0.0/0.0

Dimensions:

Width: 4.8, Height: 3.7

Substrate/Water Width: 4.8

Water Depth: 2.9

STRUCTURE 2 OF 2

Material: Concrete
Length (feet): 64
Dry Passage/Height (feet): No

Physical Barrier(s)/Severity: Debris/Sediment/
Rock, Deformation (Severe)
Slope (%): No data
Structure Comments: No data

INLET

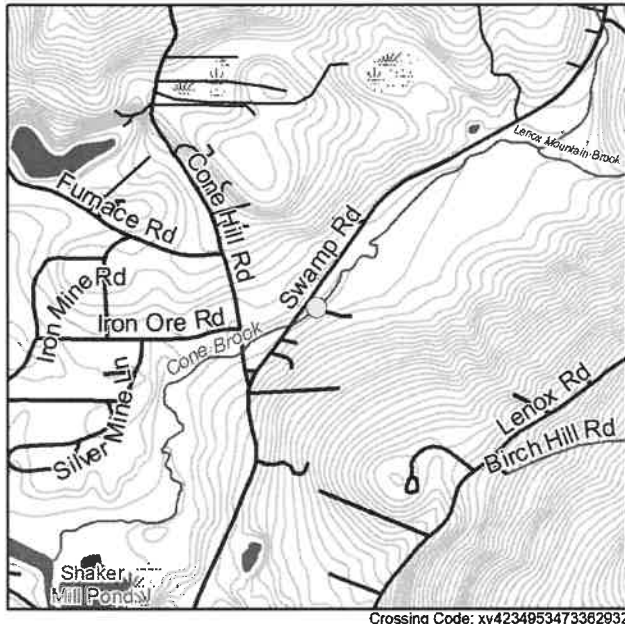
Inlet Shape/Type: Pipe Arch/Elliptical Culvert/
Headwall
Inlet Drop/Grade: At Stream Grade
Dimensions (feet):
 Width: 5, Height: 5
 Substrate/Water Width: 4.8
 Water Depth: No data

OUTLET

Outlet Shape: Pipe Arch/Elliptical Culvert
Outlet Drop/Grade: At Stream Grade
Drop to Stream Surface/Bottom (feet): No data/No data
Dimensions (feet):
 Width: 4.8, Height: 3.5
 Substrate/Water Width: 4.8
 Water Depth: 2.6

Road: Driveway off Swamp Road

Stream: Unnamed



RESULTS

Barrier Evaluation: Insignificant barrier
Aquatic Organism Passage Score: 0.9
Town Comments on Flooding/Condition/
Maintenance: No comment
Overall Ranking: Not ranked

LOCATION

Coordinates: 42.349560, -73.362960
Location Description: In driveway of 76 Swamp
Road
Date Observed: 2020-07-14
Crossing Code: xy4234953473362932

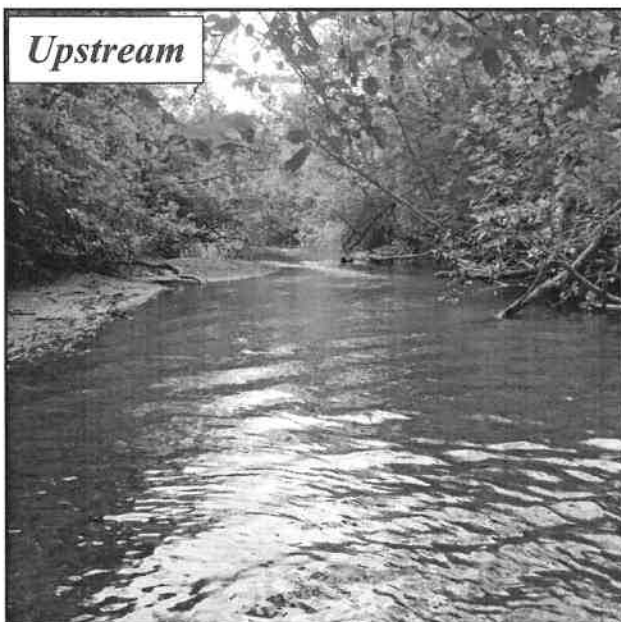
STREAM AND CROSSING

CROSSING CHARACTERISTICS

Crossing Type: Bridge
Number of structures/cells: 1
Condition: OK
Constriction: Moderate
Alignment: Flow-Aligned
Internal Features/Structures: None

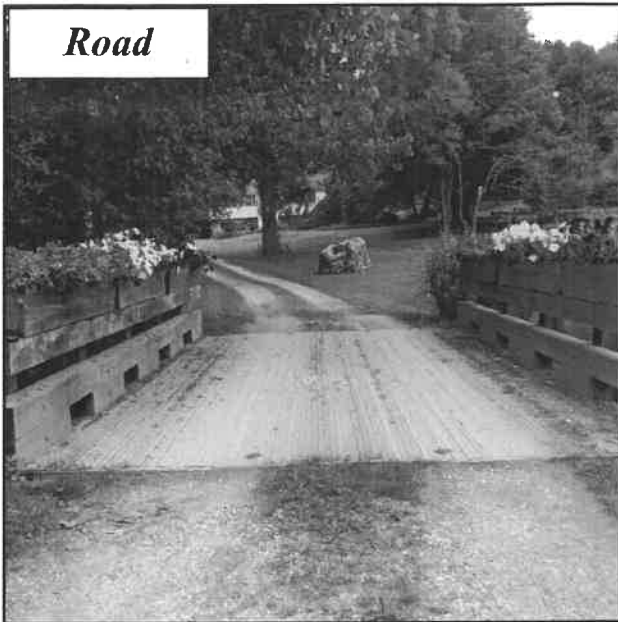
STREAM CHARACTERISTICS

Scour Pool: None
Bankfull Width (feet): 35.0
Water Depth/Velocity Matches Stream: Yes/Yes
Structure Substrate Type: Gravel
Structure Substrate Matches Stream? Contrasting



Crossing Comments: Private crossing

Road



ROAD

Road Type: Driveway
Road Fill Height (feet): 0
Road Ownership: Private

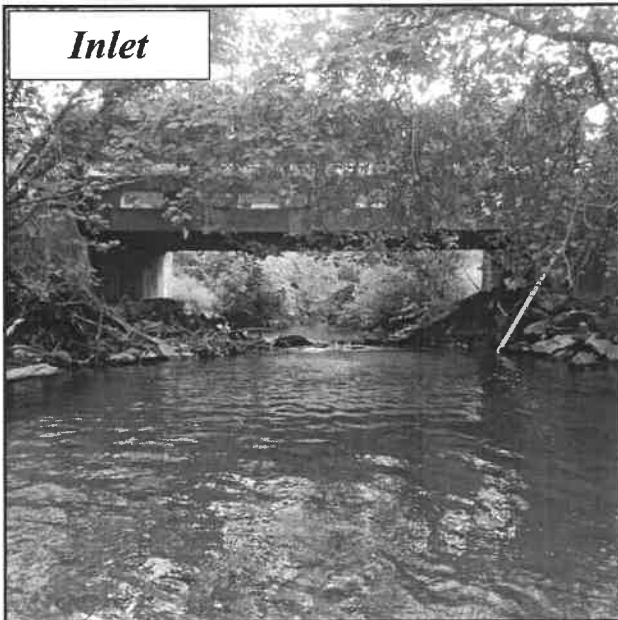
Return Interval (Years)	Peak Flow (cfs)	Road Height (feet)	Stage Height (feet)	Overtop
2	814.05	No data		
5	911.14			
10	972.69			
25	1046.26			
50	1098.15			
100	1148.06			

STRUCTURE 1 OF 1

Material: Combination
Length (feet): 13.5
Dry Passage/Height: Yes (3.5)
Outlet Armoring: None

Physical Barrier(s) (Severity): Debris/Sediment/
Rock (Minor)
Slope (%): No data
Structure Comments: No data

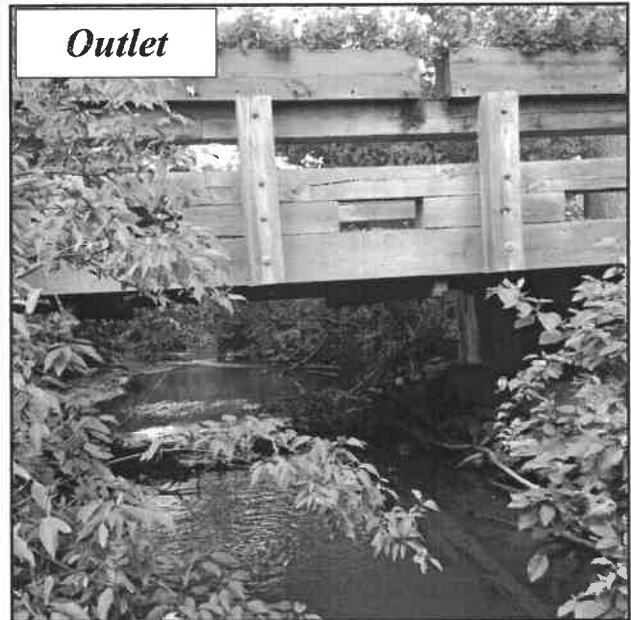
Inlet



INLET

Inlet Shape/Type: Box/Bridge with Abutments/
Headwall and Wingwalls
Inlet Drop/Grade: At Stream Grade
Dimensions:
Width: 21.4, Height: 5
Substrate/Water Width: 9
Water Depth: 0.3

Outlet



OUTLET

Outlet Shape: Box/Bridge with Abutments
Outlet Drop/Grade: At Stream Grade
Drop to Stream Surface/Bottom: 0.0/0.0
Dimensions:
Width: 21.4, Height: 6.3
Substrate/Water Width: 10.0
Water Depth: 1.40

West Stockbridge Road-Stream Crossings

