

Bel Inspection Services Inc.

PO Box 2432
Hyannis, MA 02601

Brian Celia

Phone: (617)-943 -4910

September 9, 2022

Town of Harwich
Planning Board
732 Main Street
Harwich, MA 02645

Re: Water and Sewer installation, Elijah's Woods

Dear Board Members:

I have been inspecting the progress of the installation of water and sewer utilities at the above referenced subdivision project. The installation of the water and sewer are completed. The water and sewer lines/manholes have been pressure tested and passed in accordance with the Town guidelines. To date the following items have been constructed in accordance with the approved plans, attached pictures, and test results

- Municipal Water
- Municipal Sewer

Should you have any questions please contact me.

Sincerely yours,

Bel Inspection Services Inc.



Brian Celia, Construction Inspector

Copy: Eastward Companies



Inspection Date 6/14/2022

Water Main – Tying into existing main on Chris Jobeth Circle



Inspection Date 6/18/2022

Water Main – Final connection to main for Elijah’s Woods at entrance



Inspection Date 7/21/2022

Water Main-Station 00+50 Final hydrant installed

Hydrostatic Pressure Test

Client: Barrows Construction

Address: Elisabeth's Woods Location: Harwich
Ma

Water System: Harwich water

Test Date: 7-15-22 Inspector: Steven Hicks

Diameter of Main: 8" Length of Main: 1583'

Test Requirements: 150 PSI for 1 Hrs.

Allowable Leakage Loss: ∅ Gallons for 1 Hrs.

Actual Loss: ∅ Gallons for 1 Hrs.

Hydrostatic Pressure Test: PASS Passed / Failed

Approved By: Steven Hicks Date 7/15/22

Tester: Jeremy Corra Date 7-15-22

Chlorination Requirements: 200 ppm of 50/50 % Solution

Results and Comments: _____

Job No. _____
 Contract No. _____

LOW PRESSURE AIR TESTING OF NEW SEWERS

Date: 12-10-21
 Project: Rt 137 Norwich MA
 Contractor: Barrows Construction
 Weather: Cloudy

Section Tested (List Manholes)	Length (Feet)	Diameter (Inches)	Material	Time Start/Time Finish	Time Interval (Minutes)	Air Pressure Initial/Final (psig)	Total Pressure Loss (psig)	Pass / Fail
1 to 2	172'	8"	SDR 35	9:49-10:57	7:34	5 psi	0	Pass
2 to 3	259'	8"	SDR 35	11:07-11:44	7:34	5 psi	0	Pass
3 to 4	177'	8"	SDR 35	11:45-11:53	7:34	5 psi	0	Pass
4 to 5	278'	8"	SDR 35	12:15-12:23	7:34	5 psi	0	Pass
5 to 6	87'	8"	SDR 35	1:10-1:18	7:34	5 psi	0	Pass
5 to 7	54'	8"	SDR 35	1:50-1:58	7:34	5 psi	0	Pass
7 to 8	260'	8"	SDR 35	2:25-2:33	7:34	5 psi	0	Pass
8 to 9	141'	8"	SDR 35	11:00-11:08	7:34	5 psi	0	Pass

COMMENTS:

12/11/21

WITNESS:
 OWNER/ENGINEER Barrows Construction
 Name Saman Celia
 Title Inspector
 Signature [Signature]

WITNESS:
 CONTRACTOR CCC Testing
 Name Sidney Corina
 Title Testing Specialist
 Signature [Signature]

Job No. _____

Contract No. _____

MANHOLE VACUUM TEST

Date: 12-10-21
 Project: RTE 137 Harwich
 Contractor: BeStow3
 Weather: Cloudy

Manhole No.	Inside Diameter (Feet)	Required Test Time (Seconds)	Initial Vacuum (10 inches)	Final Vacuum	Pass/Fail
1	4' / 3.5' Deep	120	10 IN HG	9.8 IN HG	PASS
2	4' / 3' Deep	120	10 IN HG	9.9 IN HG	PASS
3	4' / 4.5' Deep	120	10 IN HG	9.5 IN HG	PASS
4	4' / 6' Deep	120	10 IN HG	9.7 IN HG	PASS
5	4' / 12'	180	10 IN HG	10 IN HG	PASS
6	4' / 12'	180	10 IN HG	10 IN HG	PASS
7	4' / 16'	180	10 IN HG	10 IN HG	PASS
9	4' / 5'	120	10 IN HG	9.5 IN HG	PASS

COMMENTS:

WITNESS:
 OWNER/ENGINEER
 Name Brian Cella
 Title Inspector
 Signature [Signature]

WITNESS:
 CONTRACTOR
 Name Seaway Contract
 Title Testing Specialist
 Signature [Signature]

END OF SECTION

02735-8

LEAKAGE TEST OF SEWERS

Job No. _____
Contract No. _____

MANHOLE VACUUM TEST

Date: 12-11-21
Project: RTE 137 Norwich
Contractor: Barrows
Weather: Clearing/Rain

Manhole No.	Inside Diameter (Feet)	Required Test Time (Seconds)	Initial Vacuum (10 inches)	Final Vacuum	Pass/Fail
9	4/8.5	120	10 INHg	9.5 INHg	Pass

COMMENTS:

WITNESS: OWNER/ENGINEER Name: Brian Celia Title: Inspector Signature: [Signature]	WITNESS: CONTRACTOR Name: CCCC Testing Title: Testing Specialist Signature: [Signature]
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END OF SECTION