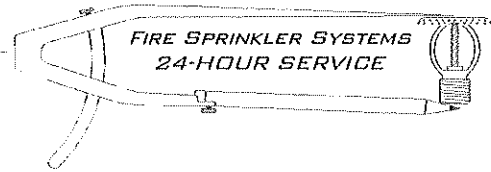


CBL
066A A001

HIGH TECH FIRE PROTECTION

PO Box 156 • Minot, ME 04258-0156

Phone: (207)998-2551 • Fax: (207)998-4187



NFPA Compliances Letter

Date: December 17, 2014

To: CCB Inc.

From: Richard Smith

Project: Nathan Clifford Residence 180 Falmouth St. Portland, ME.

Contract #: 020714-1

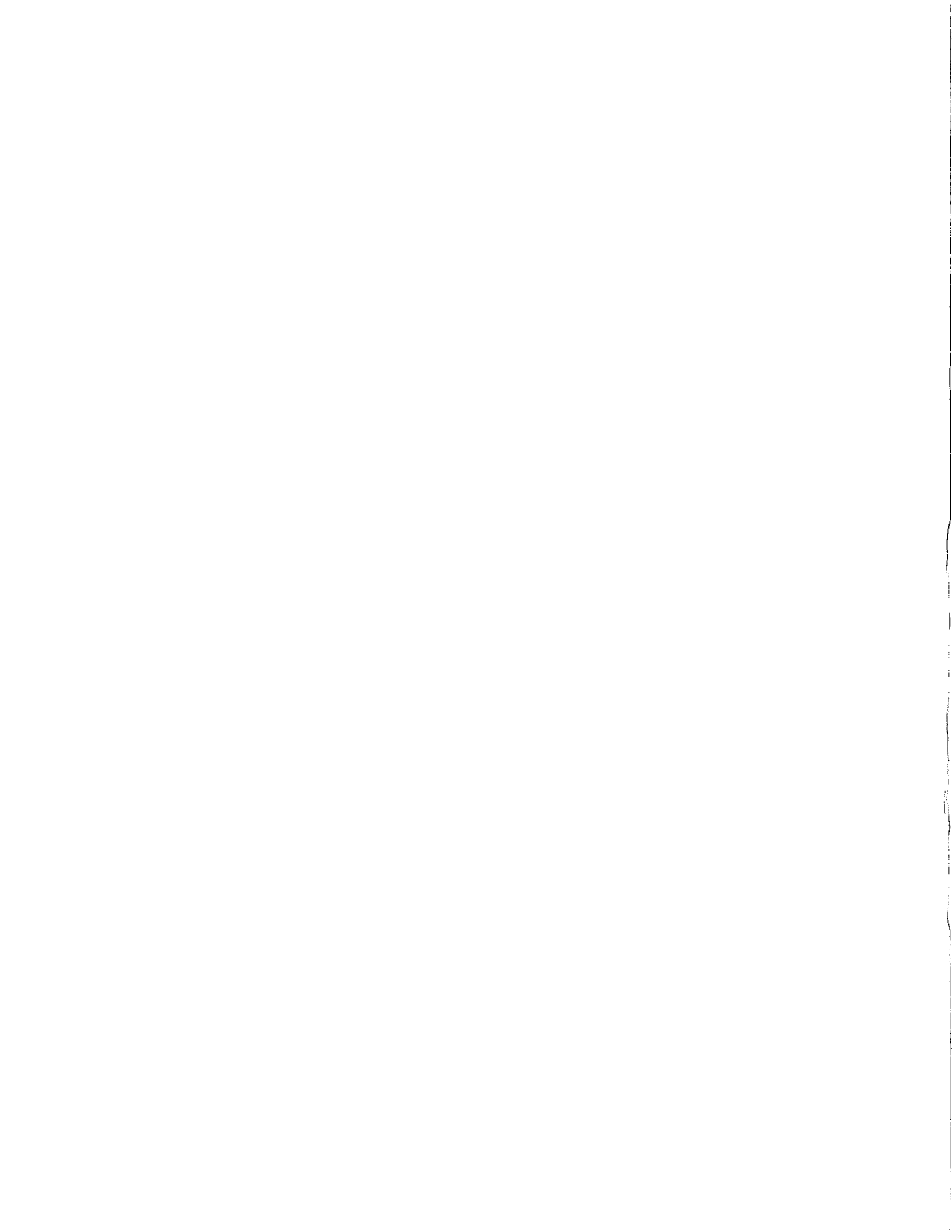
High Tech Fire Protection hereby guarantees the design, materials and workmanship to meet the necessary requirements for an NFPA #13R Automatic Fire Sprinkler System, and NFPA 14 Manual wet standpipe Class 1 system.

These systems also meets the requirements for State and local authorities.

High Tech Fire Protection warranty's the design, materials, and workmanship for this project for 1 year after our completion date of **12/19/14**.

Sincerely,
Richard Smith
High Tech Fire Protection
207-998-2551
RSmith@htfp.me

*Specializing in Commercial and Residential Fire Sprinkler Systems
Design • Installation • Inspection • Service*



Contractor's Material and Test Certificate for Aboveground Piping

PROCEDURE

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and contractors. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

PROPERTY NAME Nathan Clifford Residence DATE 12/30/14

PROPERTY ADDRESS 180 Falmouth Street Portland, ME

ACCEPTED BY State of Maine Fire Marshal's Office
 PLANS ADDRESS 45 Commerce Drive Suite 1 Augusta, ME 04330
 Installation conforms to accepted plans Yes No
 Equipment used is approved if no, explain deviations. Yes No

INSTRUCTIONS Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? Yes No
 If no, explain?
 Has copies of the following been left on the premises?
 1. System components instructions Yes No
 2. Care and maintenance instructions Yes No
 3. NFPA 25 (Owners Manual) Yes No

LOCATION OF SYSTEM Supplies buildings Attic (DRY SYSTEM)

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE/K-FACTOR	QUANTITY	TEMPERATURE RATING
	GLOBE	GL5615 UPRIGHT	2014	1/2"	98	200'

PIPING & FITTINGS Type of pipe BLACK IRON
 Type of fittings BLACK IRON

ALARM VALVE OR FLOW INDICT.	Alarm Device			Maximum time to operate through test connection.	
	Type	Make	Model	Minutes	Seconds
	<u>Pressure</u>	<u>System Service</u>	<u>TEPS 10-2</u>		<u>5</u>

DRY PIPE OPERATION TEST	Dry valve			Q.O.D.					
	Make	Model	Serial no.	Make	Model	Serial no.			
	<u>Astra</u>	<u>Model E</u>	<u>5314</u>						
	Time to trip through test connection ¹		Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet ¹	Alarm operated properly		
	Minutes	Seconds	Psi	Psi	Psi	Minutes	Seconds	Yes	No
Without Q.O.D.			<u>80</u>	<u>43</u>	<u>14</u>	<u>7:00</u>	<u>Cold</u>	<input checked="" type="checkbox"/>	
With Q.O.D.									

DELUGE & PREACTION VALVES Operation Pneumatic Electric Hydraulic
 Piping supervised Yes No
 Does valve operate from the manual trip, remote, or both control stations? Yes No
 Is there an accessible facility in each circuit for testing? Yes No If no, explain.

Make	Model	Does each circuit operate supervision loss alarm?		Does each circuit operate valve release?		Maximum time of operate release	
		Yes	No	Yes	No	Minutes	Seconds

PRESSURE REDUCING VALVES	Location and floor	Make & Model	Setting	Static Pressure		Residual Pressure (flowing)		Flow rate
				Inlet (psi)	outlet (psi)	Inlet (psi)	outlet (psi)	Flow (gpm)

¹ Measured from time inspector's test connection is opened.

Contractor's Material and Test Certificate for Aboveground Piping

PROCEDURE

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and contractors. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

PROPERTY NAME Nathan Clifford Residence DATE 12/30/14

PROPERTY ADDRESS 180 Falmouth Street Portland, ME

ACCEPTED BY State of Maine Fire Marshal's Office
 PLANS ADDRESS 45 Commerce Drive Suite 1 Augusta, ME 04330
 Installation conforms to accepted plans Yes No
 Equipment used is approved If no, explain deviations. Yes No

Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? If no, explain? Yes No

INSTRUCTIONS Has copies of the following been left on the premises?
 1. System components instructions Yes No
 2. Care and maintenance instructions Yes No
 3. NFPA 25 (Owners Manual) Yes No

LOCATION OF SYSTEM Supplies buildings **STANDPIPE** (NFPA 14 MANUAL WET CLASS 1 SYSTEM)

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE	QUANTITY
	CROKER	CROKER 5035	2014	2 1/2"	8

PIPING & FITTINGS Type of pipe BLACK IRON
 Type of fittings BLACK IRON

ALARM VALVE OR FLOW INDICT.	Alarm Device			Maximum time to operate through test connection.	
	Type	Make	Model	Minutes	Seconds
	<u>VANE</u>	<u>SYSTEM SENS</u>	<u>WFD 40</u>		<u>15</u>

DRY PIPE OPERATION TEST	Dry valve			Q.O.D.					
	Make	Model	Serial no.	Make	Model	Serial no.			
	Time to trip through test connection ¹		Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet ¹	Alarm operated properly		
	Minutes	Seconds	Psi	Psi	Psi	Minutes	Seconds	Yes	No
Without Q.O.D.									
With Q.O.D.									

DELUGE & PREACTION VALVES
 Operation Pneumatic Electric Hydraulic
 Piping supervised Yes No
 Does valve operate from the manual trip, remote, or both control stations? Yes No
 Is there an accessible facility in each circuit for testing? Yes No If no, explain.

Make	Model	Does each circuit operate supervision loss alarm?		Does each circuit operate valve release?		Maximum time of operate release	
		Yes	No	Yes	No	Minutes	Seconds

PRESSURE REDUCING VALVES	Location and floor	Make & Model	Setting	Static Pressure		Residual Pressure (flowing)		Flow rate
				Inlet (psi)	outlet (psi)	Inlet (psi)	outlet (psi)	Flow (gpm)

¹ Measured from time inspector's test connection is opened.

TEST DESCRIPTION
 Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13.6 bar) for 2 hours or 50 psi (3.4 bar) above static pressure in excess of 150 psi (10.2 bar) for 2 hours. Differential dry-pipe valve clappers shall be left open during the test to prevent damage. All aboveground piping leakage shall be stopped.
 Pneumatic: Establish 40 psi (2.7 bar) air pressure and measure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours. Test pressure tanks at normal water level and air pressure and measure air pressure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours.

TEST	All piping hydrostatically tested at <u>200</u> psi (13.8 bar) for <u>2</u> hours		If no, state reason
	Dry piping pneumatically tested <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<i>No Dry Piping</i>
	Equipment operates properly <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Do you certify as the sprinkler contractor that additives and corrosive chemicals, sodium silicate or derivatives of sodium silicate, brine, or other corrosive chemicals were not used for testing systems of stopping leaks? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Drain test	Reading of gauge located near water supply test connection: <u>80</u> psi (___ bar).	Residual pressure with valve in test connection open wide: <u>22</u> psi (___ bar).

Underground mains and lead in connections to system riser flushed before connection made to sprinkler piping?

Verified by copy of the U Form No. 85B flushed by installer of underground sprinkler piping? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	Other Explain <i>Existing Underground</i>
If power-driven fasteners are used in concrete, has representative sample testing be satisfactorily completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, explain <i>None used</i>

BLANK TESTING GASKETS	Number used <u>0</u>	Locations _____	Number removed <u>0</u>
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WELDING	Welding piping <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	If Yes...
	Do you certify as the sprinkler contractor that welding procedures comply with the requirements of at least AWS B2.1? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Do you certify that the welding was performed by welders qualified in compliance with the requirements of at least AWS B2.1? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Do you certify that the welding was carried out in compliance with a documented quality control procedure to ensure that all discs are retrieved, that openings in piping are smooth, that slag and other welding residue are removed, and that the internal diameters of piping are not penetrated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

CUTOUTS (DISCS)	Do you certify that you have a control feature to ensure that all cutouts (discs) are retrieved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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HYDRAULIC DATA NAMEPLATE	Nameplate provided <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, explain
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REMARKS	Date left in service with all control valves open <u>11/25/15</u>
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SIGNATURES	Name of sprinkler contractor <u>High Tech Fire Protection</u>	
	Test witnessed by	
	For property owner (signed) <i>Richard [Signature]</i>	Title <u>Project Engineer</u> Date <u>12/31/14</u>
	For sprinkler contractor (signed) <i>[Signature]</i>	Title <u>Inspector 310</u> Date <u>12/30/14</u>

Additional Explanations and notes

Contractor's Material and Test Certificate for Aboveground Piping

PROCEDURE

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and contractors. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

PROPERTY NAME Nathan Clifford Residence DATE 12/30/14

PROPERTY ADDRESS 180 Falmouth Street Portland, ME

ACCEPTED BY State of Maine Fire Marshal's Office
 PLANS ADDRESS 45 Commerce Drive Suite 1 Augusta, ME 04330
 Installation conforms to accepted plans Yes No
 Equipment used is approved If no, explain deviations. Yes No

INSTRUCTIONS Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? Yes No
 If no, explain?
 Has copies of the following been left on the premises?
 1. System components instructions Yes No
 2. Care and maintenance instructions Yes No
 3. NFPA 25 (Owners Manual) Yes No

LOCATION OF SYSTEM Supplies buildings 1ST FLOOR (13R WET SYSTEM)

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE/K-FACTOR	QUANTITY	TEMPERATURE RATING
	GLOBE	GL5615 UPRIGHT	2014	5.6	116	200'
	RELIABLE	F1RES44 HSW	2014	4.4	3	155'
	GLOBE	GL4910 RES PEND	2014	4.9	26	155'
	GLOBE	GL5601 PEND	2014	5.6	17	155'

PIPING & FITTINGS Type of pipe BLACK IRON/ CPVC
 Type of fittings BLACK IRON/ CPVC

ALARM VALVE OR FLOW INDICT.	Alarm Device			Maximum time to operate through test connection.	
	Type	Make	Model	Minutes	Seconds
	<u>VANE</u>	<u>System Sensor</u>	<u>NFD 20</u>		<u>20</u>

DRY PIPE OPERATION TEST	Dry valve			Q.O.D.			Alarm operated properly		
	Make	Model	Serial no.	Make	Model	Serial no.	Yes	No	
	Time to trip through test connection ¹		Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet ¹		Alarm operated properly	
	Minutes	Seconds	Psi	Psi	Psi	Minutes	Seconds	Yes	No

Without Q.O.D.
 With Q.O.D.

If no, explain

DELUGE & PREACTION VALVES Operation Pneumatic Electric Hydraulic
 Piping supervised Yes No
 Does valve operate from the manual trip, remote, or both control stations? Yes No
 Is there an accessible facility in each circuit for testing? Yes No If no, explain.

Make	Model	Does each circuit operate supervision loss alarm?		Does each circuit operate valve release?		Maximum time of operate release	
		Yes	No	Yes	No	Minutes	Seconds

PRESSURE REDUCING VALVES	Location and floor	Make & Model	Setting	Static Pressure		Residual Pressure (flowing)		Flow rate
				Inlet (psi)	outlet (psi)	Inlet (psi)	outlet (psi)	Flow (gpm)

¹ Measured from time inspector's test connection is opened.

TEST DESCRIPTION
 Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13.6 bar) for 2 hours or 50 psi (3.4 bar) above static pressure in excess of 150 psi (10.2 bar) for 2 hours. Differential dry-pipe valve clappers shall be left open during the test to prevent damage. All aboveground piping leakage shall be stopped.
 Pneumatic: Establish 40 psi (2.7 bar) air pressure and measure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours. Test pressure tanks at normal water level and air pressure and measure air pressure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours.

All piping hydrostatically tested at 200 psi (13.8 bar) for 2 hours
 Dry piping pneumatically tested Yes No
 Equipment operates properly Yes No
 If no, state reason, No dry piping

Do you certify as the sprinkler contractor that additives and corrosive chemicals, sodium silicate or derivatives of sodium silicate, brine, or other corrosive chemicals were not used for testing systems of stopping leaks? Yes No

TEST
 Drain test Reading of gauge located near water supply test connection: 85 psi (___ bar). Residual pressure with valve in test connection open wide: 80 psi (___ bar).

Underground mains and lead in connections to system riser flushed before connection made to sprinkler piping?

Verified by copy of the U Form No. 85B flushed by installer of underground sprinkler piping? Yes No Yes No
 Other Explain Existing Underground

If power-driven fasteners are used in concrete, has representative sample testing be satisfactorily completed? Yes No
 If no, explain None used

BLANK TESTING GASKETS
 Number used 0 Locations _____ Number removed 0

WELDING
 Welding piping Yes No
 If Yes...

Do you certify as the sprinkler contractor that welding procedures comply with the requirements of at least AWS B2.1? Yes No

Do you certify that the welding was performed by welders qualified in compliance with the requirements of at least AWS B2.1? Yes No

Do you certify that the welding was carried out in compliance with a documented quality control procedure to ensure that all discs are retrieved, that openings in piping are smooth, that slag and other welding residue are removed, and that the internal diameters of piping are not penetrated? Yes No

CUTOUTS (DISCS)
 Do you certify that you have a control feature to ensure that all cutouts (discs) are retrieved? Yes No

HYDRAULIC DATA NAMEPLATE
 Nameplate provided Yes No If no, explain

REMARKS
 Date left in service with all control valves open 1/27/15

SIGNATURES
 Name of sprinkler contractor High Tech Fire Protection

Test witnessed by

For property owner (signed) Richard L. Gatten Title Project Engineer Date 12/31/14

For sprinkler contractor (signed) Liam J. Hill Title Inspector S/D Date 12/30/14

Additional Explanations and notes

Contractor's Material and Test Certificate for Aboveground Piping

PROCEDURE

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and contractors. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

PROPERTY NAME Nathan Clifford Residence DATE 12/30/14

PROPERTY ADDRESS 180 Falmouth Street Portland, ME

ACCEPTED BY State of Maine Fire Marshal's Office
 PLANS ADDRESS 45 Commerce Drive Suite 1 Augusta, ME 04330
 Installation conforms to accepted plans Yes No
 Equipment used is approved If no, explain deviations. Yes No

INSTRUCTIONS Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? Yes No
 If no, explain?
 Has copies of the following been left on the premises?
 1. System components instructions Yes No
 2. Care and maintenance instructions Yes No
 3. NFPA 25 (Owners Manual) Yes No

LOCATION OF SYSTEM Supplies buildings 2ND FLOOR (13R WET SYSTEM)

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE/K-FACTOR	QUANTITY	TEMPERATURE RATING
		GLOBE	GL5615 UPRIGHT	2014	5.6	6
	RELIABLE	F1RES44 HSW	2014	4.4	38	155°
	GLOBE	GL4910 RES PEND	2014	4.9	27	155°
	VIKING	VK467 RES UPR.	2014	4.9	18	155°
	GLOBE	GL5641 DRY HSW	2014	5.6	4	155°

PIPING & FITTINGS Type of pipe BLACK IRON/ CPVC
 Type of fittings BLACK IRON/ CPVC

ALARM VALVE OR FLOW INDICT.	Alarm Device			Maximum time to operate through test connection.	
	Type	Make	Model	Minutes	Seconds
	<u>VAN</u>	<u>SYSTEM SENSE</u>	<u>WFD 20</u>		<u>20</u>

DRY PIPE OPERATION TEST	Dry valve			Q.O.D.			
	Make	Model	Serial no.	Make	Model	Serial no.	
		Time to trip through test connection ¹	Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet ¹	Alarm operated properly
		Minutes Seconds	Psi	Psi	Psi	Minutes Seconds	Yes No
	Without Q.O.D.						
	With Q.O.D.						

DELUGE & PREACTION VALVES
 Operation Pneumatic Electric Hydraulic
 Piping supervised Yes No
 Does valve operate from the manual trip, remote, or both control stations? Yes No
 Is there an accessible facility in each circuit for testing? Yes No If no, explain.

Make	Model	Does each circuit operate supervision loss alarm?		Does each circuit operate valve release?		Maximum time of operate release	
		Yes	No	Yes	No	Minutes	Seconds

PRESSURE REDUCING VALVES	Location and floor	Make & Model	Setting	Static Pressure		Residual Pressure (flowing)		Flow rate
				Inlet (psi)	outlet (psi)	Inlet (psi)	outlet (psi)	Flow (gpm)

¹ Measured from time inspector's test connection is opened.

TEST DESCRIPTION
 Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13.6 bar) for 2 hours or 50 psi (3.4 bar) above static pressure in excess of 150 psi (10.2 bar) for 2 hours. Differential dry-pipe valve clappers shall be left open during the test to prevent damage. All aboveground piping leakage shall be stopped.
 Pneumatic: Establish 40 psi (2.7 bar) air pressure and measure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours. Test pressure tanks at normal water level and air pressure and measure air pressure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours.

TEST	All piping hydrostatically tested at <u>200</u> psi (13.8 bar) for <u>2</u> hours		If no, state reason
	Dry piping pneumatically tested <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<i>No dry Piping</i>
	Equipment operates properly <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Do you certify as the sprinkler contractor that additives and corrosive chemicals, sodium silicate or derivatives of sodium silicate, brine, or other corrosive chemicals were not used for testing systems of stopping leaks? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Drain test	Reading of gauge located near water supply test connection: <u>80</u> psi (___ bar).	Residual pressure with valve in test connection open wide: <u>75</u> psi (___ bar).	
Underground mains and lead in connections to system riser flushed before connection made to sprinkler piping?			
Verified by copy of the U Form No. 85B flushed by installer of underground sprinkler piping? <input type="checkbox"/> Yes <input type="checkbox"/> No		Other Explain	
		<i>Existing Underground</i>	
If power-driven fasteners are used in concrete, has representative sample testing be satisfactorily completed? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If no, explain	
		<i>None used</i>	

BLANK TESTING GASKETS	Number used <u>0</u>	Locations _____	Number removed <u>0</u>
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WELDING	Welding piping <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	If Yes...
	Do you certify as the sprinkler contractor that welding procedures comply with the requirements of at least AWS B2.1? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Do you certify that the welding was performed by welders qualified in compliance with the requirements of at least AWS B2.1? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Do you certify that the welding was carried out in compliance with a documented quality control procedure to ensure that all discs are retrieved, that openings in piping are smooth, that slag and other welding residue are removed, and that the internal diameters of piping are not penetrated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

CUTOUTS (DISCS)	Do you certify that you have a control feature to ensure that all cutouts (discs) are retrieved? <input type="checkbox"/> Yes <input type="checkbox"/> No
------------------------	---

HYDRAULIC DATA NAMEPLATE	Nameplate provided <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, explain
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REMARKS	Date left in service with all control valves open <u>1/23/15</u>
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SIGNATURES	Name of sprinkler contractor <u>High Tech Fire Protection</u>	
	Test witnessed by	
	For property owner (signed) <i>Richard A. [Signature]</i>	Title <u>Project Engineer</u> Date <u>12/31/14</u>
	For sprinkler contractor (signed) <i>[Signature]</i>	Title <u>Inspector SIO</u> Date <u>12/30/14</u>

Additional Explanations and notes

Contractor's Material and Test Certificate for Aboveground Piping

PROCEDURE

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and contractors. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

PROPERTY NAME Nathan Clifford Residence DATE 10/30/14

PROPERTY ADDRESS 180 Falmouth Street Portland, ME

ACCEPTED BY State of Maine Fire Marshal's Office
 PLANS ADDRESS 45 Commerce Drive Suite 1 Augusta, ME 04330
 Installation conforms to accepted plans Yes No
 Equipment used is approved If no, explain deviations. Yes No

INSTRUCTIONS Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? Yes No
 If no, explain?
 Has copies of the following been left on the premises?
 1. System components instructions Yes No
 2. Care and maintenance instructions Yes No
 3. NFPA 25 (Owners Manual) Yes No

LOCATION OF SYSTEM Supplies buildings 3RD FLOOR (13R WET SYSTEM)

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE/K-FACTOR	QUANTITY	TEMPERATURE RATING
	GLOBE	GL5615 UPRIGHT	2014	5.6	7	200'
RELIABLE	F1RES44 HSW	2014	4.4	33	155'	
GLOBE	GL4910 RES PEND	2014	4.9	35	155'	
VIKING	VK467 RES UPR.	2014	4.9	16	155'	

PIPING & FITTINGS Type of pipe BLACK IRON/ CPVC
 Type of fittings BLACK IRON/ CPVC

ALARM VALVE OR FLOW INDICT.	Alarm Device			Maximum time to operate through test connection.	
	Type	Make	Model	Minutes	Seconds
	<u>NONE</u>	<u>System Sensor</u>	<u>WFP 20</u>		<u>20</u>

DRY PIPE OPERATION TEST	Dry valve			Q.O.D.				
	Make	Model	Serial no.	Make	Model	Serial no.		
	Time to trip through test connection ¹		Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet ¹	Alarm operated properly	
	Minutes	Seconds	Psi	Psi	Psi	Minutes	Seconds	Yes
Without Q.O.D.								
With Q.O.D.								

DELUGE & PREACTION VALVES Operation Pneumatic Electric Hydraulic
 Piping supervised Yes No
 Does valve operate from the manual trip, remote, or both control stations? Yes No
 Is there an accessible facility in each circuit for testing? Yes No If no, explain.

Make	Model	Does each circuit operate supervision loss alarm?		Does each circuit operate valve release?		Maximum time of operate release	
		Yes	No	Yes	No	Minutes	Seconds

PRESSURE REDUCING VALVES	Location and floor	Make & Model	Setting	Static Pressure		Residual Pressure (flowing)		Flow rate
				Inlet (psi)	outlet (psi)	Inlet (psi)	outlet (psi)	Flow (gpm)

¹ Measured from time inspector's test connection is opened.

Contractor's Material and Test Certificate for Aboveground Piping

PROCEDURE

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and contractors. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances.

PROPERTY NAME Nathan Clifford Residence DATE 12/30/14

PROPERTY ADDRESS 180 Falmouth Street Portland, ME

PLANS ACCEPTED BY State of Maine Fire Marshal's Office
 ADDRESS 45 Commerce Drive Suite 1 Augusta, ME 04330
 Installation conforms to accepted plans Yes No
 Equipment used is approved if no, explain deviations. Yes No

INSTRUCTIONS Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? If no, explain? Yes No
 Has copies of the following been left on the premises?
 1. System components instructions Yes No
 2. Care and maintenance instructions Yes No
 3. NFPA 25 (Owners Manual) Yes No

LOCATION OF SYSTEM Supplies buildings 4TH FLOOR (13R WET SYSTEM)

SPRINKLERS	MAKE	MODEL	YEAR OF MANUFACTURE	ORIFICE/K-FACTOR	QUANTITY	TEMPERATURE RATING
	GLOBE	GL5615 UPRIGHT	2014	5.6	7	200'
	RELIABLE	F1RES44 HSW	2014	4.4	27	155'
	GLOBE	GL4910 RES PEND	2014	4.9	47	155'
	VIKING	VK467 RES UPR.	2014	4.9	21	155'
	GLOBE	GL5632 VSW	2014	5.6	5	155'

PIPING & FITTINGS Type of pipe BLACK IRON/ CPVC
 Type of fittings BLACK IRON/ CPVC

ALARM VALVE OR FLOW INDICT.	Alarm Device			Maximum time to operate through test connection.	
	Type	Make	Model	Minutes	Seconds
	<u>VALE</u>	<u>System Senior</u>	<u>WPD 20</u>		<u>20</u>

DRY PIPE OPERATION TEST	Dry valve			Q.O.D.					
	Make	Model	Serial no.	Make	Model	Serial no.			
	Time to trip through test connection ¹		Water pressure	Air pressure	Trip point air pressure	Time water reached test outlet ¹	Alarm operated properly		
	Minutes	Seconds	Psi	Psi	Psi	Minutes	Seconds	Yes	No
Without Q.O.D.									
With Q.O.D.									

DELUGE & PREACTION VALVES Operation Pneumatic Electric Hydraulic
 Piping supervised Yes No
 Does valve operate from the manual trip, remote, or both control stations? Yes No
 Is there an accessible facility in each circuit for testing? Yes No If no, explain.

Make	Model	Does each circuit operate supervision loss alarm?		Does each circuit operate valve release?		Maximum time of operate release	
		Yes	No	Yes	No	Minutes	Seconds

PRESSURE REDUCING VALVES	Location and floor	Make & Model	Setting	Static Pressure		Residual Pressure (flowing)		Flow rate
				Inlet (psi)	outlet (psi)	Inlet (psi)	outlet (psi)	Flow (gpm)

¹ Measured from time inspector's test connection is opened.

TEST DESCRIPTION
 Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13.6 bar) for 2 hours or 50 psi (3.4 bar) above static pressure in excess of 150 psi (10.2 bar) for 2 hours. Differential dry-pipe valve clappers shall be left open during the test to prevent damage. All aboveground piping leakage shall be stopped.
 Pneumatic: Establish 40 psi (2.7 bar) air pressure and measure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours. Test pressure tanks at normal water level and air pressure and measure air pressure drop, which shall not exceed 1 1/2 psi (0.1 bar) in 24 hours.

All piping hydrostatically tested at 200 psi (13.8 bar) for 2 hours
 Dry piping pneumatically tested Yes No
 Equipment operates properly Yes No
 If no, state reason
No dry piping

Do you certify as the sprinkler contractor that additives and corrosive chemicals, sodium silicate or derivatives of sodium silicate, brine, or other corrosive chemicals were not used for testing systems of stopping leaks? Yes No

TEST
 Drain test Reading of gauge located near water supply test connection: 67 psi (___ bar). Residual pressure with valve in test connection open wide: 65 psi (___ bar).

Underground mains and lead in connections to system riser flushed before connection made to sprinkler piping?
 Verified by copy of the U Form No. 85B flushed by installer of underground sprinkler piping? Yes No Yes No
 Other Explain
Existing Underground

If power-driven fasteners are used in concrete, has representative sample testing be satisfactorily completed? Yes No
 If no, explain
None used

BLANK TESTING GASKETS
 Number used 0 Locations _____ Number removed 0

WELDING
 Welding piping Yes No
 If Yes...

Do you certify as the sprinkler contractor that welding procedures comply with the requirements of at least AWS B2.1? Yes No

Do you certify that the welding was performed by welders qualified in compliance with the requirements of at least AWS B2.1? Yes No

Do you certify that the welding was carried out in compliance with a documented quality control procedure to ensure that all discs are retrieved, that openings in piping are smooth, that slag and other welding residue are removed, and that the internal diameters of piping are not penetrated? Yes No

CUTOUTS (DISCS)
 Do you certify that you have a control feature to ensure that all cutouts (discs) are retrieved? Yes No

HYDRAULIC DATA NAMEPLATE
 Nameplate provided Yes No If no, explain

REMARKS
 Date left in service with all control valves open 1/28/15

SIGNATURES
 Name of sprinkler contractor High Tech Fire Protection

Test witnessed by

For property owner (signed) [Signature] Title Project Engineer Date 12/31/14
 For sprinkler contractor (signed) [Signature] Title Inspector 310 Date 12/30/14

Additional Explanations and notes