

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

FREEMAN LEONARD S & TERRY S FREEMAN
JTS/Sprinkler Services Inc.

PERMIT ID: 2012-65615

Located at

36 BROOKSIDE RD

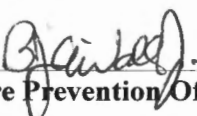
CBL: 158 B009001

has permission to **install NFPA 13D sprinkler system**

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be procured prior to occupancy.


Fire Prevention Officer

58

Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
THERE IS A PENALTY FOR REMOVING THIS CARD**

BUILDING PERMIT INSPECTION PROCEDURES
Please call 874-8703 (ONLY)
or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

REQUIRED INSPECTIONS:

Final - Fire

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 201265615	Date Applied For: 12/13/2012	CBL: 158 B009001
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Location of Construction: 36 BROOKSIDE RD	Owner Name: FREEMAN LEONARD S & TERR	Owner Address: 159 HIGH HEAD RD	Phone:
Business Name:	Contractor Name: Sprinkler Services Inc.	Contractor Address: PO Box 809 Windham	Phone (207) 892-1415
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression System	

Proposed Use: Single Family	Proposed Project Description: install NFPA 13D sprinkler system
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Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 12/13/2012
Note:	Ok to Issue: <input checked="" type="checkbox"/>		

Dept: Fire	Status: Approved w/Conditions	Reviewer: Ben Wallace Jr	Approval Date: 12/24/2012
Note:	Ok to Issue: <input checked="" type="checkbox"/>		
1) A copy of the required state sprinkler permit with RMS signoff shall be provided prior to the final inspection. 2) All control valves shall be supervised in accordance with NFPA 13D. 3) Pad locks shall only be installed on valves designed to be secured in the open position by pad lock.			

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 2012-65615	Issue Date:	CBL: 158 B009001
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Location of Construction: 36 BROOKSIDE RD	Owner Name: FREEMAN LEONARD S & TERR	Owner Address: 159 HIGH HEAD RD	Phone:
Business Name:	Contractor Name: Sprinkler Services Inc.	Contractor Address: PO Box 809 Windham	Phone (207) 892-1415
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression System	Zone: R3
Past Use: Single Family	Proposed Use: Single Family	Permit Fee:	Cost of Work: \$0.00
Proposed Project Description: SF Fire Suppression		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A <i>12/24/12 w/ conditions</i>	INSPECTION: Use Group: Type:
		Signature: <i>[Signature]</i>	Signature:
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)			
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied			
Signature:		Date:	

Permit Taken By: bjs	Date Applied For: 12/13/2012	Zoning Approval		
<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>		<p>Special Zone or Reviews</p> <p><input checked="" type="checkbox"/> Shoreland <i>256' kitchen fronted lot Not house</i></p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input checked="" type="checkbox"/></p> <p><i>oik</i> Date: <i>12/13/12</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

874-8400

One- or Two-family Fire Sprinkler Permit

If you or the property owner owes real estate or property taxes or user charges on any property within the city, payment arrangements must be made before permits of any kind are accepted.

Installation address: 36 Brookside Dr

Building owner: Len Freeman Phone: 751-0900

Installer: Sprinkler Services Inc. Phone: 892-1415

Total sq/ft of building floor space per unit: 1800 Single-family home
or

Sq/ft of sprinklered floor space per unit: _____ Two-family home

Is this a multipurpose piping system? Y / N Sprinkler piping uses Pex? Y / N

Water supply: Municipal Water Well pump Stored water Other

Include electronic copy of approved State Sprinkler Permit plans:

Additional cost to the owner for the home fire sprinkler system for each dwelling unit minus costs necessary for domestic needs (See below): **A=** 2,950

Attach cost breakdown: A City plumbing permit has been pulled:

RECEIVED
DEC 13 2012

Dept. of Building Inspections
City of Portland Maine

COST OF WORK: _____
(A times number of units)

NO FEE REQUIRED

Additional information and Frequently asked questions about home fire sprinkler systems may be found at www.portlandmaine.gov/fireprevention.

Sprinkler system cost must deduct costs that would have been incurred if the system did not provide sprinkler service. In a well pump system it would include the difference between the well pump to be installed and the one that would have been installed if there were no sprinkler demand on the system. Includes additional piping and valves that are required only because of NFPA Standard 13D, and not already required for domestic needs. Includes cost of sprinkler heads and additional installation costs.



State of Maine
Department of Public Safety
Fire Sprinkler System Permit



10382

36 Brookside

Located at: 36 Brookside Road
 In the Town of: Portland
 Occupancy/Use: Single Family Home
 Type of System: NFPA 13D

Permission is hereby given to:

Sprinkler Services

PO Box 809
 Windham, ME 04062
 Contractor License # 22

to begin installation according to plans submittal approved by the Office of State Fire Marshal.
 The submittal is filed under log # 2121557 , and no departure from the application submittal shall be made
 without prior approval in writing. This permit is issued under the provisions of Title 32, Chapter 20, Section 12004-I.
 Nothing herein shall excuse the holder of this permit from failure to comply with local ordinances, zoning laws, o
 other pertinent legal restrictions. This permit shall be displayed at the construction site or be made readily available.

This permit was issued on 12/11/2012 for a fee paid of \$25.00

This permit will expire at midnight on Sunday, June 09, 2013

The expiration date applies only if the installation has not begun by that date and no permission has been granted to extend the date. Once installation begins, then the permit is valid for however long it takes to complete the installation, assuming that the work is fairly continuous.

John E. Morris
 Commissioner

The type of Fire Department Connection and its location is to be according to the Local Fire Department

Within 30 days of the completion of a new fire sprinkler system or an addition to an existing fire sprinkler system, a fire sprinkler system contractor shall provide to the Office of State Fire Marshal a copy of this permit signed and dated by the certified Responsible Managing Supervisor representing that the fire sprinkler system has been installed according to specifications of the approved plan to the best of the supervisor's knowledge, information, and belief. This requirement is part of the sprinkler law, and neglect of this duty is grounds to not renew the contractor's license to do work in the State of Maine. All renewed sprinkler licenses are good for two years and expire on a June 30th.

Job completed, tested and verified by date of _____

RMS for this job: Cummings, (FPE) W. Mark

RMS Signature: _____

NOTES

ALL DIMENSIONS HEIGHTS AND DIMENSIONS OF THE BUILDING AND ITS SYSTEMS SHALL BE VERIFIED FROM TO THE FLOOR OF WORK. THIS INCLUDES LOCATION OF SYSTEM COMPONENTS WITHIN MECHANICAL SPACES/AREAS.

DRAINAGE INSTALLATIONS, RISER AND SPRINKLER LOCATIONS WILL BE COORDINATED TO ENSURE ADEQUATE CLEARANCE FROM LEVELS, STRUCTURES, ELECTRICAL AND MECHANICAL EQUIPMENT, ETC. ARE MAINTAINED.

ALL COMPANIES, UTILITIES, AND AGENCIES/STATE, FEDERAL, STATES, SPRINKLER CODES (IF APPLICABLE) SHALL BE CONTACTED TO VERIFY ALL LOCAL REQUIREMENTS AND ALL APPLICABLE CODES.

ALL PIPE HANGERS LOCATIONS WILL BE VERIFIED IN ACCORDANCE WITH ALL INTERFERENCES AND COMPLIANCE TO ALL LOCAL REQUIREMENTS. SPREADS, CLIPS SHALL BE TAKEN INTO CONSIDERATION WHEN HANGING REQUIREMENTS AND CODES.

AFTER INSTALLATION PERFORM INSPECTION OF SPRINKLER SYSTEM AND CHECKS IS STRONGLY RECOMMENDED. OWNER'S REPRESENTATIVE FOR INSPECTION MUST BE PRESENT AT ALL TIMES. CONTRACTOR SHALL PROVIDE ACCESS TO ALL SYSTEMS FOR TESTING, COMMISSIONING AND MAINTENANCE OF THE SYSTEM.

IT IS ASSUMED THAT THE ENGINEER DOES NOT INSURE MECHANICAL ROOMS OR OTHER ROOMS AND IS THEREFORE NOT REQUIRED TO BE SPRINKLERED IN ACCORDANCE WITH NFPA 101.

STANDARDS

ALL SPRINKLERS SHALL BE DRAIN RESPONSE TYPE AS INDICATED BY DWG.

SPRINKLER JOINTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL JOINTS SHALL BE PROTECTED FROM MECHANICAL DAMAGE AND SHALL BE PROTECTED FROM MECHANICAL DAMAGE AND SHALL BE PROTECTED FROM MECHANICAL DAMAGE.

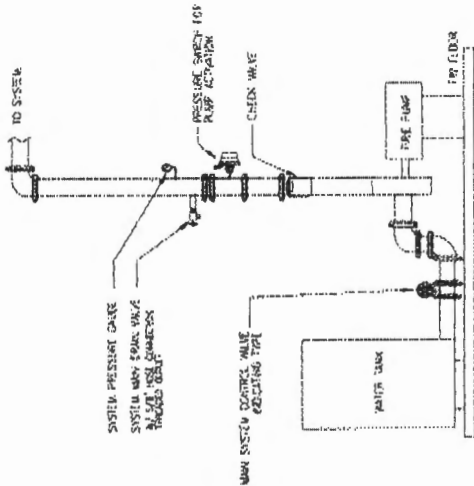
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DESIGN

THE BASIS FOR THE DESIGN SHALL BE THE BASIS FOR THE DESIGN. THE BASIS FOR THE DESIGN SHALL BE THE BASIS FOR THE DESIGN. THE BASIS FOR THE DESIGN SHALL BE THE BASIS FOR THE DESIGN.

NOTES

THE WATER SUPPLY FROM THE MAIN WATER MAIN SHALL BE PROVIDED TO THE DESIGN. THE WATER SUPPLY FROM THE MAIN WATER MAIN SHALL BE PROVIDED TO THE DESIGN.



RISER DIAGRAM

MINIMUM SPECIFICATIONS FOR SPRINKLER SYSTEM

INSTALLATION OF A NEW WET SPRINKLER SYSTEM IN A ONE-FAMILY BUILDING THE SYSTEM SHALL BE PROVIDED WITH A SPRINKLER SYSTEM WITH A 100-2000 GPM AND ALL OTHER SIZE AND TECH. CODES ON MANUFACTURER'S REQUIREMENTS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN.

WATER MAIN SERVICE SIZE	WATER MAIN	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
MINIMUM SERVICE SIZE	MINIMUM SERVICE SIZE	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"

SYSTEM REQUIREMENTS SUMMARY

1.5" WET SERVICE - 0.15" PRESSURE PER FOOT (1.5")
 SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN.
 SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN.
 SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN.

36 BROOKSIDE DRIVE
 Cumberland, ME

SPRINKLER PLAN

FP-001

Job No.: 120877
 Date: 11/30/2017
 Drawn: JLM
 Checked: JLM
 Scale: 1/4" = 1'-0"

Designed By: **FIRE RISK MANUFACTURING, INC.**
 Project No.: 001 - 11/30/2017
 11/30/2017

Hydraulic Summary

WATER SUPPLY INFORMATION:

Static (psi):	41.00
Residual (psi):	40.00
@ (gpm):	50.00
Hose (gpm):	0.00
System req. (gpm):	26.53
@ (psi):	23.87
Supply available:	40.69 psi
Safety margin:	16.82 psi

Maximum velocity in the system is: 9.85 ft/sec in the pipe between Nodes: 2 and 3

Continuity at all nodes satisfied to: 0.01 gpm

Pipe Type Legend

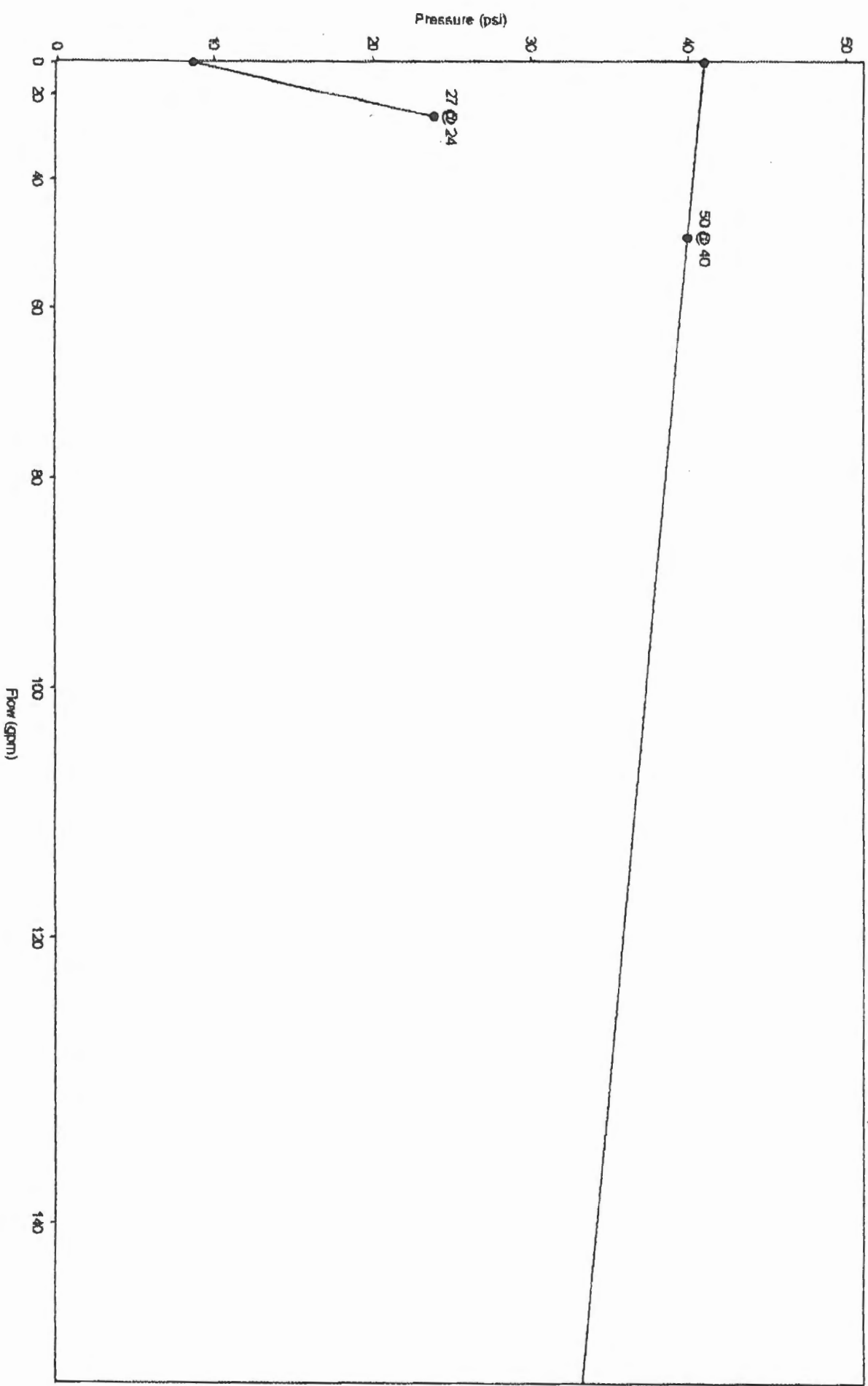
40 = Schedule 40

Fitting Type Legend

E = 90 degree standard elbow
 T = Tee (flow turned 90 degrees)
 GV = Gate valve
 CV = Swing check valve

NOTES:

Reference	Nozzle Type & Location	Flow in gpm	Pipe Fittings Size & inches Devices	Pipe Eqiv. Length	Friction Loss psi/ft	Req. psi	Notes
1	4.90	q	1.049	lgth 12.000		Pt	7.00
to		Q	120	ftg 0.000	0.058	Pf	0.70
2				tot 12.000		Pe	0.00
2	4.90	q	1.049	lgth 15.000		Pt	7.70
to		Q	120 E	ftg 2.000	0.219	Pf	3.73
3				tot 17.000		Pe	0.00
3		q	1.610	lgth 43.000		Pt	11.43
to		Q	120 2T	ftg 16.000	0.027	Pf	1.61
4				tot 59.000		Pe	0.00
4		q	1.610	lgth 10.000		Pt	13.04
to		Q	120 T	ftg 8.000	0.027	Pf	0.49
5				tot 18.000		Pe	4.33
5		q	1.610	lgth 40.000		Pt	17.86
to		Q	120 3E GV CV	ftg 21.500	0.027	Pf	1.68
6	Source			tot 61.500		Pe	4.33
		Qt	26.53			Pt	23.87



60

Water Supply vs. Sprinkler Demand