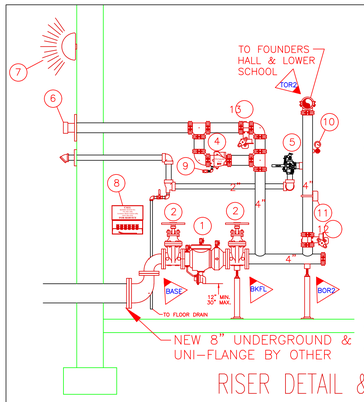
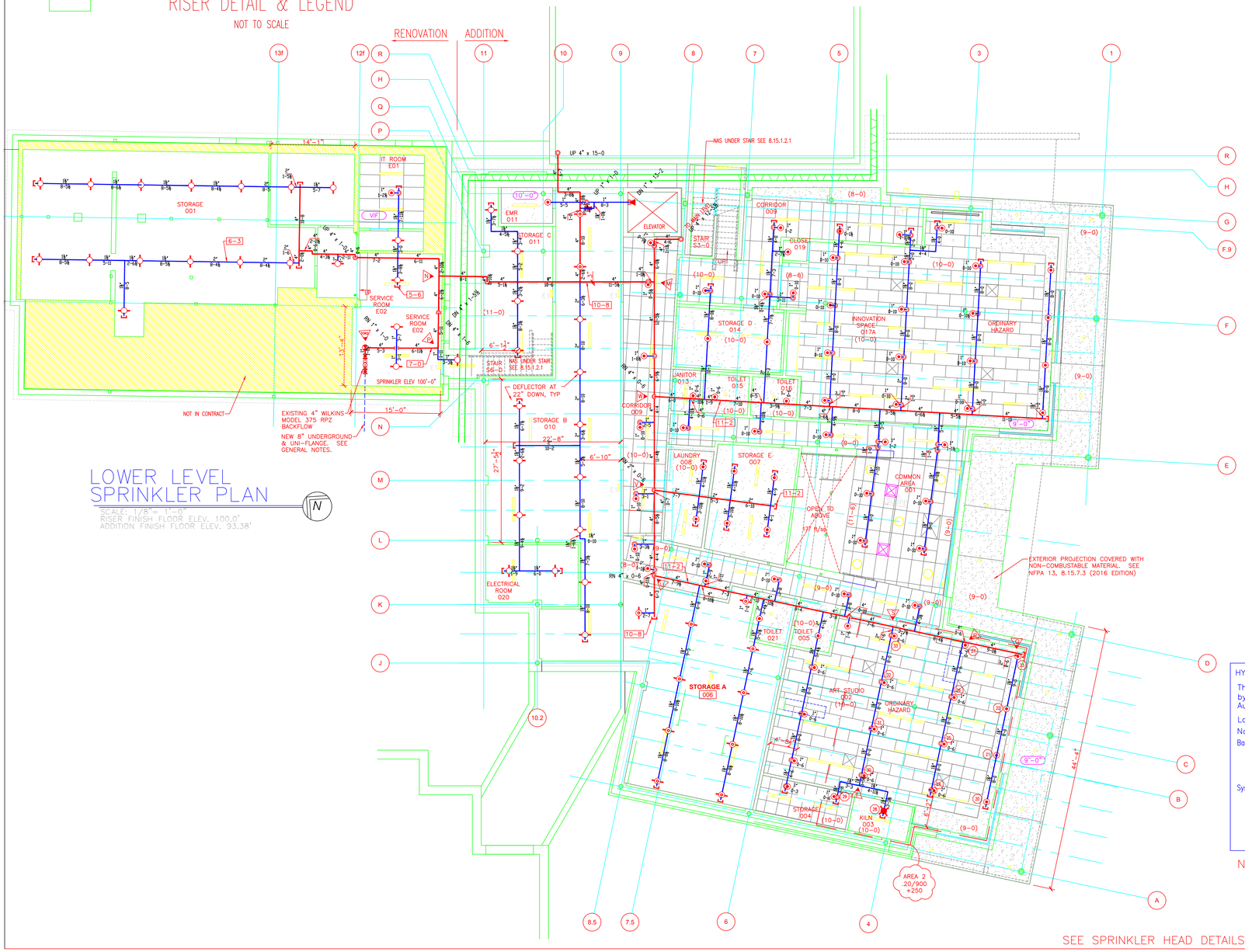


(13) 4" BUTTERFLY VALVE VICTAULIC 705W, NORMALLY CLOSED
(12) 4" BUTTERFLY VALVE VICTAULIC 705W, NORMALLY OPEN
(11) 4" FLOW SWITCH POTTER VSR-F
(10) ¾" THREE WAY VALVE WITH WATER PRESSURE GAUGE
(9) ½" BALL DRIP VALVE
(8) SPARE HEAD AND WRENCH BOX 6 COUNT
(7) ELECTRIC ALARM BELL POTTER
(6) 4"x2½ SIEMESE FIRE DEPARTMENT CONNECTION
(5) 2" TEST AND DRAIN VALVE, ½" ORIFICE & RELIEF VALVE.
(4) 4" SWING CHECK VALVE VICTAULIC MODEL 717
(3) 8"x4" REDUCING FLANGED REDUCING 90 ELBOW
(2) EXISTING 4" OS&Y VALVE WITH TAMPER SWITCH
(1) EXISTING 4" WILKINS DOUBLE CHECK RPZ BACK FLOW MODEL 375

RISER DETAIL & LEGEND

NOT TO SCALE



LOWER LEVEL SPRINKLER PLAN

SCALE: 1/8"= 1'-0"
RISER FINISH FLOOR ELEV. 100.0'
ADDITION FINISH FLOOR ELEV. 93.38'

LOWER LEVEL ART STUDIO

HYDRAULIC DATA NAMEPLATE

This Building is protected by a hydraulically designed Automatic Sprinkler System

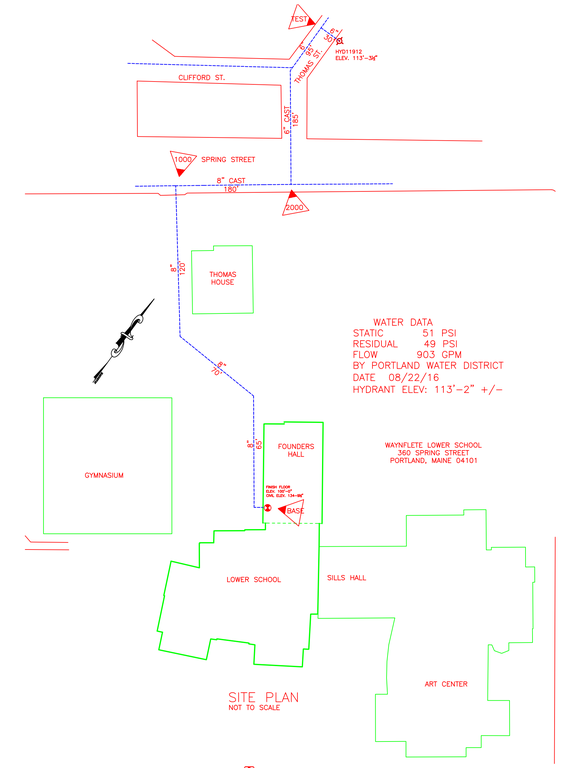
Location AREA-2
No. of Sprinkler 14
Basis of design
1. Density .20 GPM/ft²
2. Design area of discharge 900 ft²
System Demand
1. Water Flow Rate
@ Base 303.928 GPM
2. Residual Pressure
@ Base 42.352 PSI
CUSHION = 6.847 psi

NOT MOST REMOTE

SEE SPRINKLER HEAD DETAILS

GENERAL NOTES:

- IT IS THE BUILDING OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEAT FOR ALL AREAS IN THE BUILDING PROTECTED BY WET SPRINKLER SYSTEMS AND FOR ALL WATER FILLED SUPPLY PIPES, VALVES AND SYSTEM RISERS IN ALL DRY PIPE SPRINKLER SYSTEMS.
- ALL NEW PIPING IS TO BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS, OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHEN THE MAXIMUM PRESSURE TO BE MAINTAINED IS IN EXCESS OF 150 PSI. (PER NFPA 13)
- WHETHER OR NOT INDICATED ON DRAWINGS, THE FOLLOWING ITEMS ARE TO BE PROVIDED:
  . SPARE HEAD CABINET WITH WRENCH (NFPA 13).
  . PROVISIONS FOR FLUSHING CONNECTIONS AND DRAINING OF ALL PIPE.
  . INSPECTORS TEST CONNECTION SHALL BE PROVIDED FOR EACH SYSTEM
    A) FOR WET PIPE SYSTEMS SEE NFPA 13)
    B) FOR DRY PIPE SYSTEMS SEE NFPA 13)
  . AIR PRESSURE SHALL BE MAINTAINED ON ALL DRY PIPE SYSTEMS BY AN APPROVED AUTOMATIC AIR COMPRESSOR OR PLANT AIR SYSTEM SPECIFICALLY APPROVED FOR AND CAPABLE OF AUTOMATICALLY MAINTAINING THE REQUIRED AIR PRESSURE.
  . WET PIPE SYSTEMS SHALL BE PROVIDED WITH A RELIEF VALVE NOT LESS THAN 1/2" IN SIZE. (NFPA 13).
- 1" PIPE SHALL BE SCHEDULE 40 STEEL WITH MALLEABLE IRON THREADED FITTINGS.
- 1¼" THRU 2" PIPE SHALL BE SCHEDULE 40 STEEL, WITH ANVIL GROOVED COUPLINGS AND MECHANICAL FITTINGS OR EQUIVALENT.
- ALL PIPE 2½" AND LARGER, SHALL BE SCHEDULE 10 STEEL, ANVIL GROOVED COUPLINGS AND MECHANICAL FITTINGS OR EQUIVALENT.
- ALL MECHANICAL TRADES ARE TO COORDINATE THEIR WORK WITH SPRINKLER WORK AS SHOWN ON THESE PLANS.
- ALL HANGERS AND LOCATIONS ARE TO BE IN ACCORDANCE WITH N.F.P.A. 13.
- ALL SPRINKLER HEADS IN SUSPENDED CEILING TILES ARE TO BE LOCATED IN THE CENTER OF THE NARROW DIMENSION, AND QUARTER OF THE ACOUSTICAL CEILING PANEL.
- ALL PIPING IS TO BE PITCHED IN ACCORDANCE WITH N.F.P.A. 13.
- HYDRAULIC DATA REFERENCE POINTS: (25) (26)
- CENTER LINE OF PIPE ABOVE FINISH FLOOR 12'-0" BELOW DECK (12")
- PROTECTIVE CAPS ARE TO REMAIN ON THE SPRINKLER HEADS UNTIL AFTER CEILINGS ARE INSTALLED.
- WORK IS LIMITED TO THE WORK SHOWN ON THESE DOCUMENTS.
- UNDERGROUND PIPING TO BE INSTALLED, TESTED, AND FLUSHED BY OTHERS IN ACCORDANCE WITH NFPA 24. ALL UNDERGROUND PIPING IS BY OTHERS.

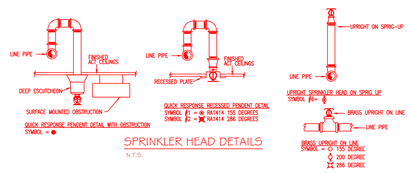


WATER DATA
STATIC 51 PSI
RESIDUAL 49 PSI
FLOW 903 GPM
BY PORTLAND WATER DISTRICT
DATE 08/22/16
HYDRANT ELEV: 113'-2" +/-

WAYNFLETE LOWER SCHOOL
360 SPRING STREET
PORTLAND, MAINE 04101

SITE PLAN

NOT TO SCALE

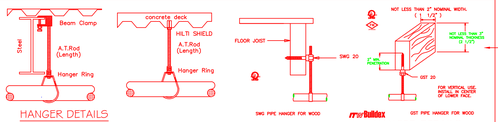


SPRINKLER HEAD DETAILS

N.T.S.

SUBMITTAL COPY

1. Type of Hazard LIGHT/ORDINARY
2. Pipe Type Used BLK SCH 10/40
4. Sprinkler Area PER SPEC
5. Type of Construction NON COMBUSTIBLE
6. Maximum Spacing Allowed PER NFPA 13
7. PIPE SIZING METHOD: PIPE SCHEDULE ☐ HYDRAULICALLY CALCULATED ■
8. ALL HANGERS AND LOCATIONS TO BE IN ACCORDANCE WITH N.F.P.A. PAMPHLET NO. 13
9. HIGH DEGREE TEMPERATURE SPRINKLER HEADS TO BE INSTALLED IN ACCORDANCE WITH N.F.P.A. PAMPHLET NO. 13
2. Deflector Distance PER SPEC



HANGER DETAILS
N.T.S.

HANGER DETAILS
N.T.S.

HANGERS
AS SHOWN IN DETAIL

ABBREVIATIONS	
B	Bottom of Beam
D	Bottom of Deck
P	Bottom of Pipe
HV	Hose Valve
N & C	Nipple and Cap
NIC	Not in Contract
NTS	Not to Scale
OBJ	Open Bar Joists
PRV	Pressure Red Valve
RM	Roof Manifold
SP	Standpipe
TOB	Top of Beam
TOP	Top of Pipe
TOS	Top of Steel
UON	Unless Otherwise Noted
CL	Centerline
NAS	No Automatic Sprinklers
OTA	Open to Above

CONTRACT RESPONSIBILITIES	FPC	OTHERS
STREET CONN		●
UGD. MAIN		●
EXCAVATION		●
FLUSHING		●
WIRING		●
PAINTING		●
TAMPER SWITCHES	●	
FLOW SWITCHES	●	
STREET CONN		●

SPRINKLER HEAD LEGEND

#	SYMBOL	MAKE	MODEL	SIN	FINISH	TYPE	TEMP	NPT	ORIFICE	K-FACTOR	TOTAL
1		RELIABLE	F1FR 56	RA1414	WHITE/ BRONZE	SEMI-RECS PENDENT	155° F	1/2"	1/2"	5.6	298
2		RELIABLE	F1FR 56	RA1414	WHITE	SEMI-RECS PENDENT	286° F	1/2"	1/2"	5.6	1
3		RELIABLE	F1FR 56	RA1425	BRONZE	UPRIGHT	200° F	1/2"	1/2"	5.6	52
4		RELIABLE	F1FR 56	RA1435	BRONZE	HORIZ SIDEWALL	200° F	1/2"	1/2"	5.6	1
5		VICTAULIC	VS1	V3506	BRONZE	DRY FLEX PENDENT	200° F	1"	1/2"	5.6	1
6		SPRIG-UP HEAD #3									
7											
8										TOTAL →	353

SUBMITTALS	SENT TO	DATE RECEIVED
	DATE SENT 10/17/17	
I S O		
F M		
L M		
I R I		
L A		
STATE FIRE	●	
LOCAL FIRE	●	
LOCAL WATER		
OWNER	●	

LICENSE# 093
R.M.S.# 442
PERMIT # ????

SPRINKLER SYSTEMS INC.
P.O. BOX 1285
LEWISTON MAINE
04243-1285

WAYNFLETE LOWER SCHOOL

360 SPRING STREET
PORTLAND, MAINE 04101

CONTRACT WITH WRIGHT-RYAN CONSTRUCTION

SYSTEM TYPE	
WET	■
DRY	☐
DELUGE	☐
PREACTION	☐
ME. LIFE	☐
HYDRO-PRO	☐

REVISIONS			
NO.	DATE	DESCRIPTION	

SCALE	AS NOTED
DRAWN BY	JJP
CHECKED BY	CDS
DATE	06/13/2017
TOTAL SPKRS ON JOB	353
SHEET#	1 of 3
JOB#	17058