GENERAL NOTES

- It is the building owner's responsibility to provide adequate heat for all areas in the building protected by wet 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 hood 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)
  - Gridded wet pipe systems shall be provided with a relief valve not less than 1/4" in size. (NFPA 13).

Building construction –

- This building is a combustible structure on a concrete slab. Roof is constructed out of prefabbed wood trusses with plywood exterior and shingled roof. Interior partitions consist of both metal and wood studs with gypsum wallboard exterior. Fire rated partitions are shown on Architectural drawings.
- Ceiling construction is as shown on plans.
- All mechanical trades are to coordinate their work with sprinkler work as shown on these plans. Work to be done under this contract is limited to what is shown on these plans.
- All hangers and locations are to be in accordance with N.F.P.A. 13.
- All piping is to be pitched in accordance with N.F.P.A. 13.
- The building owner is The Volunteers of America Northern New England Brunswick Brunswick, Maine. The building is identified as a health care facility/elderly housing units. The building has a footprint of 12,150+– sq. feet.
- Hydraulic data reference points: ◁ ○
- Center line of pipe above finish floor ▭ Below steel ○
- Sprinklers shall be installed in all areas.

Exception No. 1: Sprinklers may be omitted from all closets where the least dimension does not exceed 3 ft. and the area does not exceed 24 sq. ft. and the walls and ceilings are surfaced with non-combustible, or limited combustible, materials.

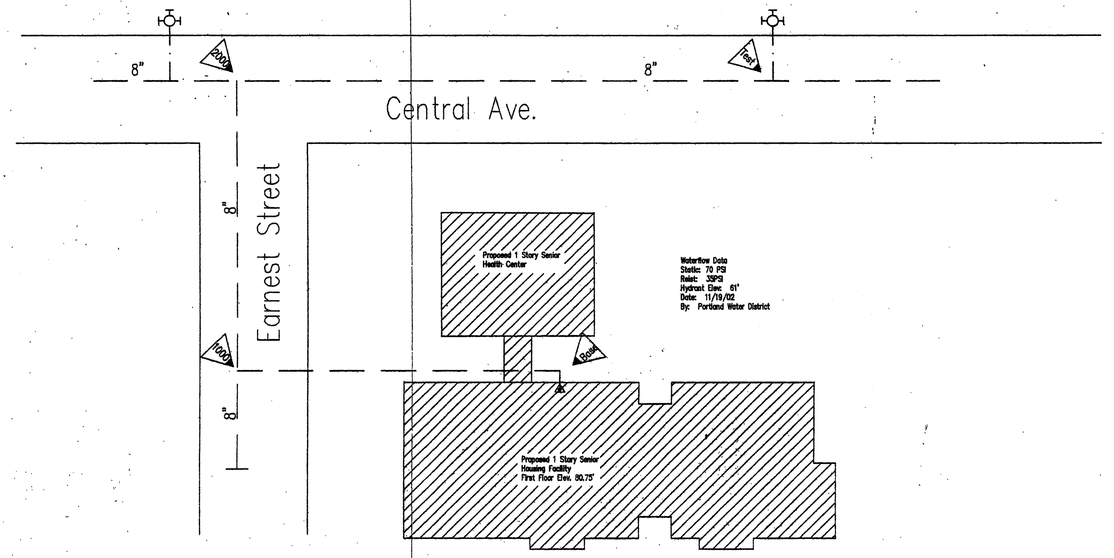
Exception No. 2: Sprinklers may be omitted from open attached porches.

Exception No. 3: Sprinklers may be omitted from carports, garages and similar structures.

Exception No. 4: Sprinklers may be omitted from attics, and accessible crawl spaces which are not used or intended for living purposes or storage.

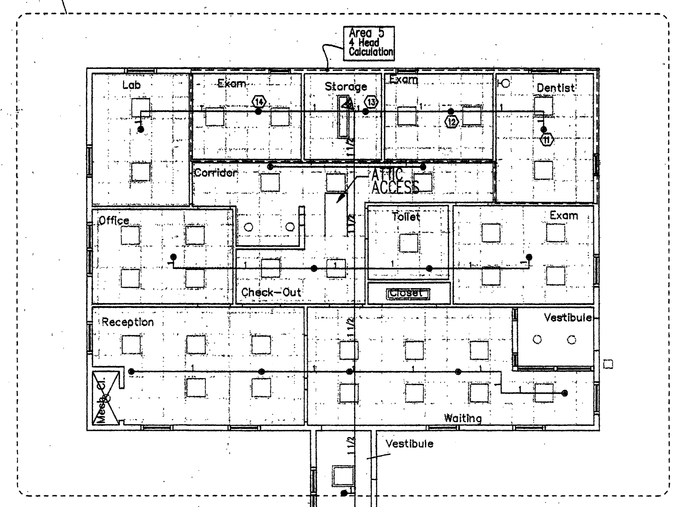
Exception No. 5: Sprinklers may be omitted from entrance foyers which are not the only means of egress, that has sprinkler protection.

Exception No. 6: Sprinklers may be omitted from walk-in refrigerators, freezers, coolers, and similar unheated areas.



Site Plan
N.T.S.

HEALTH CENTER UNIT
NOT IN HUD CONTRACT



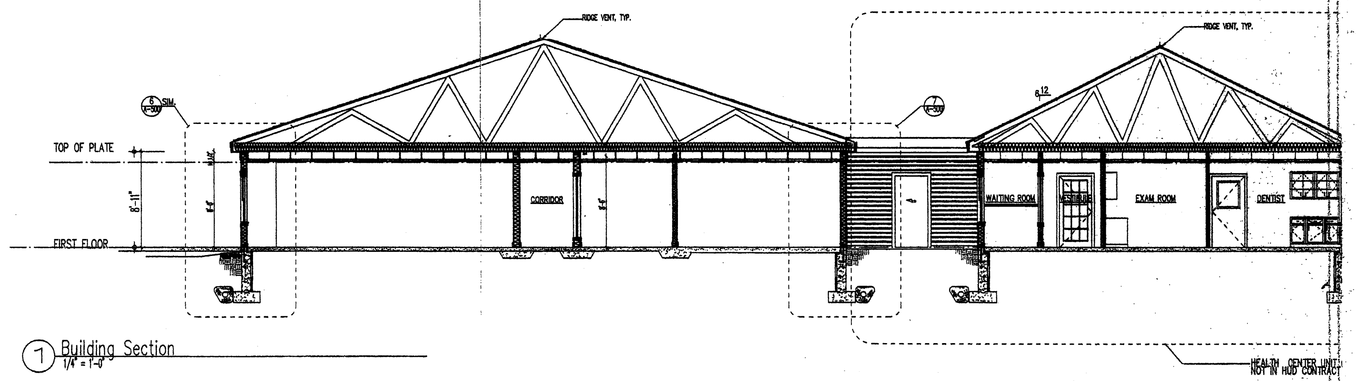
HYDRAULIC DATA NAMEPLATE	
This Building is protected by a hydraulically designed Automatic Sprinkler System	
Location	Area 1
No. of Sprinkler	1
Basis of design N.F.P.A. 13R	
1. Density	.05 GPM/FT²
2. Design area of discharge	1 HEAD FT²
System Demand	
1. Water Flow Rate @ Base	20.02 GPM
2. Residual Pressure at the base of the riser	35.882 PSI

HYDRAULIC DATA NAMEPLATE	
This Building is protected by a hydraulically designed Automatic Sprinkler System	
Location	Area 2
No. of Sprinkler	2
Basis of design N.F.P.A. 13R	
1. Density	.05 GPM/FT²
2. Design area of discharge	2 HEADS FT²
System Demand	
1. Water Flow Rate @ Base	34.43 GPM
2. Residual Pressure at the base of the riser	35.484 PSI

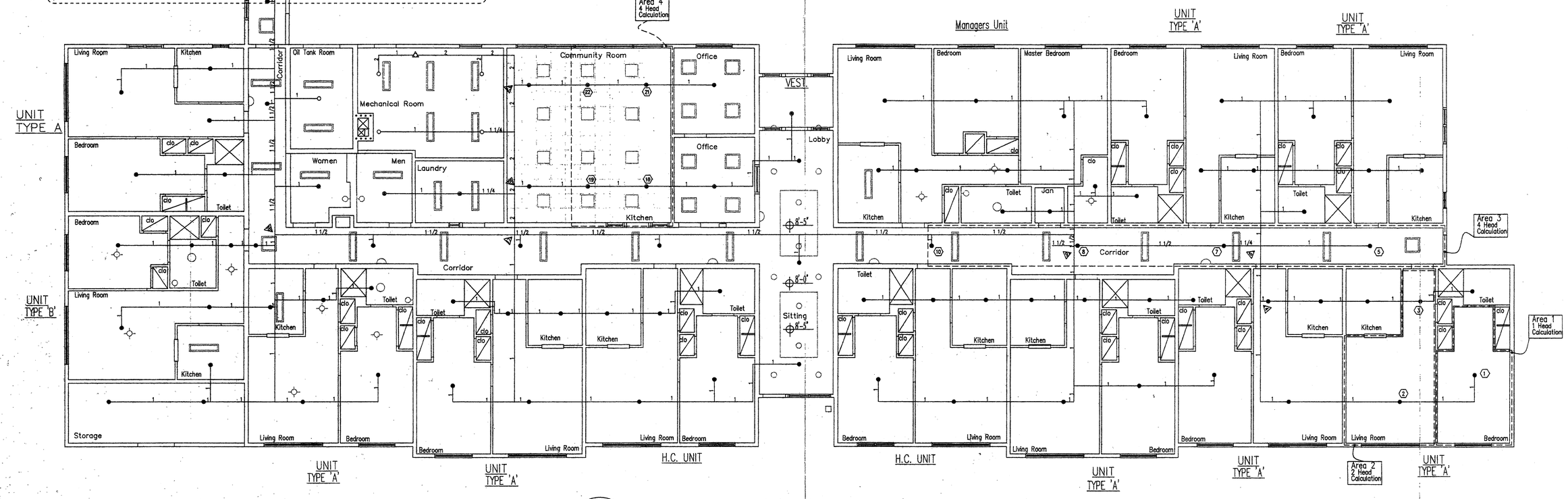
HYDRAULIC DATA NAMEPLATE	
This Building is protected by a hydraulically designed Automatic Sprinkler System	
Location	Area 3
No. of Sprinkler	4
Basis of design N.F.P.A. 13R	
1. Density	.05 GPM/FT²
2. Design area of discharge	4 HEADS FT²
System Demand	
1. Water Flow Rate @ Base	86.01 GPM
2. Residual Pressure at the base of the riser	53.684 PSI

HYDRAULIC DATA NAMEPLATE	
This Building is protected by a hydraulically designed Automatic Sprinkler System	
Location	Area 4
No. of Sprinkler	4
Basis of design N.F.P.A. 13R	
1. Density	.10 GPM/FT²
2. Design area of discharge	4 HEADS FT²
System Demand	
1. Water Flow Rate @ Base	60.61 GPM
2. Residual Pressure at the base of the riser	22.206 PSI

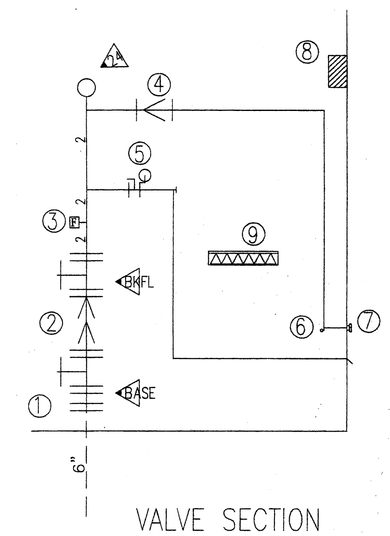
HYDRAULIC DATA NAMEPLATE	
This Building is protected by a hydraulically designed Automatic Sprinkler System	
Location	Area 5
No. of Sprinkler	4
Basis of design N.F.P.A. 13R	
1. Density	.10 GPM/FT²
2. Design area of discharge	4 HEADS FT²
System Demand	
1. Water Flow Rate @ Base	66.98 GPM
2. Residual Pressure at the base of the riser	43.086 PSI



1 Building Section
1/4" = 1'-0"



FIRST FLOOR REFLECTED CEILING PLAN
SCALE 1/8" = 1'-0" (11 1 BRM UNITS 1 MANAGER'S UNIT)



VALVE SECTION
N.T.S.

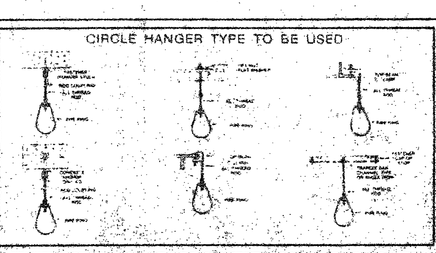
1. Uni-Flange
2. Backflow Preven
3. Flow Switch
4. Fire Dept. Conne
5. Test and Drain
6. 1/2" Ball Drip
7. Fire Dept. Conne
8. Electric Horn
9. 6 ct. Spare Hea

SP-1
2/4/04

HYDRAULIC DESIGN CRITERIA	
Density	
Remote area	
K-Factor	Head Size
Hose Allowance	
Water Supply	
Static	
Residual	
Water Flowing	
Sized at Supply	

1) Type of Hazard NFPA 13R 2) Deflector Distance 1" TO 12"
3) Pipe Type Used SCHEDULE 10 4) Sprinkler Area 12.200 FT²
5) Type of Construction COMBUSTIBLE
6) Maximum Spacing Allowed 40'OFT² RESIDENTIAL / 196 FT² COMMON AREAS
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

CIRCLE HANGER TYPE TO BE USED



HANGERS	
Symbol	Description
—	GST 20 SUPER SAMMYS
—	SWS 10 SUPER SAMMYS
—	3/8 SIDE BEAM CONN.

ABBREVIATIONS	
@	Bottom of Beam
B	Bottom of Pipe
BP	Bottom of Pipe
HW	Hose Valve
M & E	Mechanical & Elec
N.I.C.	Not in Contract
N.T.S.	Not to Scale
O.B.B.	On Bar Joists
PRV	Pressure Reducing Valve
RM	Roof Mounted
SP	Standpipe
TOB	Top of Beam
TOP	Top of Pipe
TOS	Top of Steel
Under	Unless Otherwise Noted
W	Partitioning
W/O	With Automatic Sprinklers
W/A	Open To Above

CONTRACT RESPONSIBILITIES		
ITEM	F.P.	OTHERS
ASPECT FORM		
LIQUID MAN		
EXCAVATION		
PLUMBING		
WIRING		
PAINTING		
TAMPER SWITCHES		
FLOW SWITCHES		
CUT & PATCHING		

SPRINKLER HEAD LEGEND

SYMBOL	MAKE	MODEL	FINISH	TYPE	TEMP	N.P.T	ORIFICE	K-FACTOR	TOTAL
○	RELIABLE	F1FR	BRASS	UPR	155°	1/2	1/2	5.6	72
⊕	RELIABLE	F1FR	WHITE	PEND	155°	1/2	1/2	5.6	22
●	RELIABLE	FIRE49	WHITE	CONCEALED PEND	155°	1/2	1/2	4.9	50

SUBMITTALS		
SENT TO	DATE SENT	DATE RECEIVED
ISO	☐	
FM	☐	
LM	☐	
IRI	☐	
LA	☐	
STATE FIRE	☒	
LOCAL FIRE	☒	
LOCAL WATER	☐	
GC	☒	
	☐	

LICENSE TYPE
R.M.S. # 0147

SPRINKLER SYSTEMS, INC.
P.O. BOX 160
KENNEBUNK, MAINE
04043

CONTRACT WITH OWNER

SYSTEM TYPE	
WET	☐
DRY	☐
DELUGE	☐
PREACTION	☐
MIS. LIFE	☐
13 R	☒

REVISIONS		
NO	DATE	DESCRIPTION

SCALE	AS NOTED
DRAWN BY	SPS
CHECKED BY	CDS
DATE	2/4/04
TOTAL SPKRS ON JOB	113
SHEET #	1 OF 1
JOB #	03427