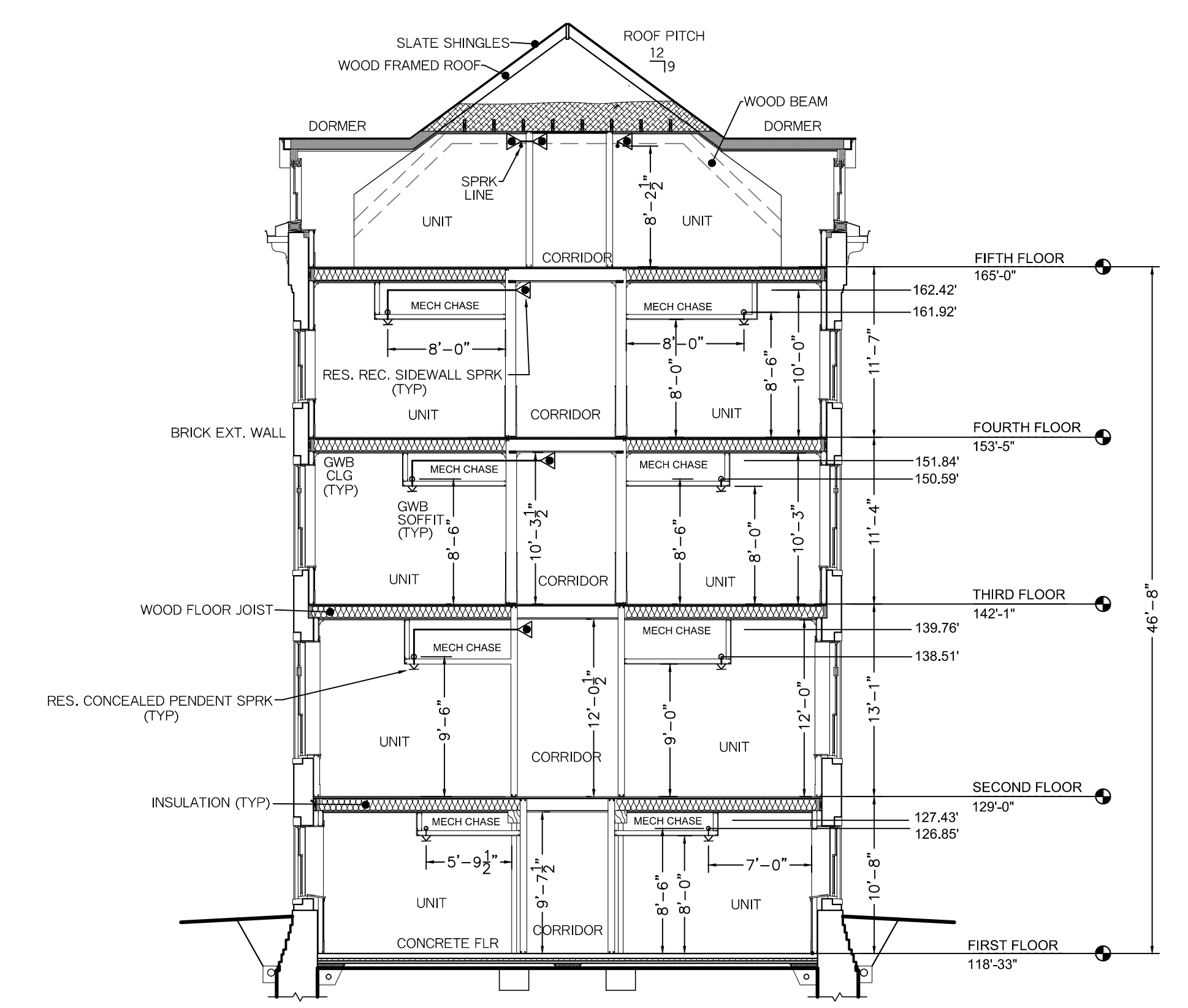


HYDRAULIC DATA:			
LOBBY AREA (AREA #6)			
BASIS OF DESIGN (NFPA 13)			
DENSITY	AREA OF COVERAGE		
.1	813 SF		
SPRINKLERS	TOTAL	THREAD	TEMP
7	155'	1/2"	155'
SYSTEM DEMAND AT BOR:			
PRESSURE	FLOW	HOSE	
55.17	139.57	100	
SAFETY MARGIN: 3.86 PSI			
OCCUPANCY: LIGHT HAZARD			

HYDRAULIC DATA:			
COMMUNITY RM (AREA #7)			
BASIS OF DESIGN (NFPA 13)			
DENSITY	AREA OF COVERAGE		
.1	943 SF		
SPRINKLERS	TOTAL	THREAD	TEMP
8	155'	1/2"	155'
SYSTEM DEMAND AT BOR:			
PRESSURE	FLOW	HOSE	
44.09	160.04	100	
SAFETY MARGIN: 14.87 PSI			
OCCUPANCY: LIGHT HAZARD			

HYDRAULIC DATA:			
MECHANICAL RM (AREA #8)			
BASIS OF DESIGN (NFPA 13)			
DENSITY	AREA OF COVERAGE		
.15	1061 SF		
SPRINKLERS	TOTAL	THREAD	TEMP
8	155'	1/2"	155'
SYSTEM DEMAND AT TEST:			
PRESSURE	FLOW	HOSE	
48.56	214.8	250	
SAFETY MARGIN: 9.94 PSI			
OCCUPANCY: MECHANICAL RM			

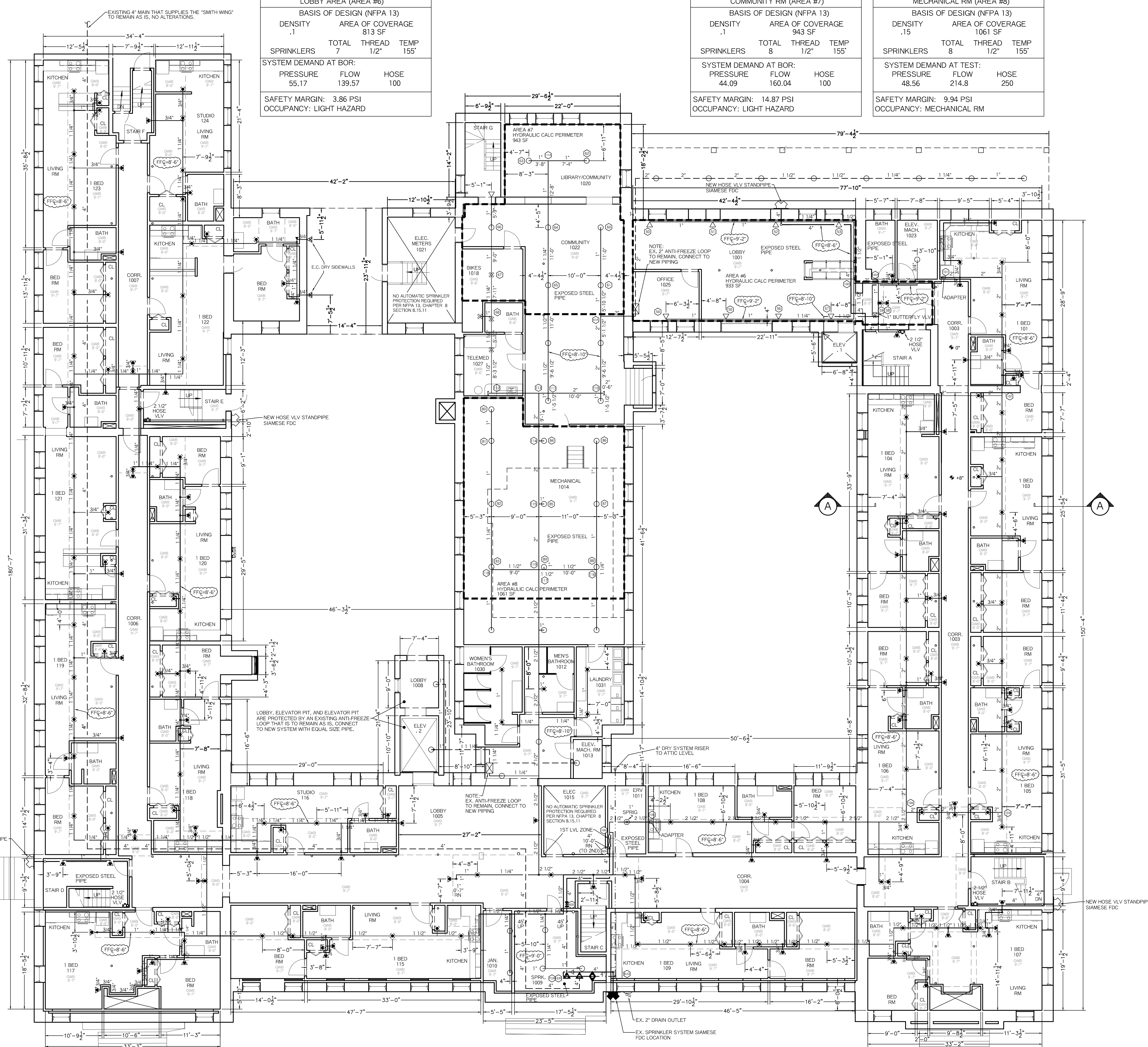


BUILDING SECTION -AA-
SCALE: 1/8" = 1'-0"

- SYSTEM GENERAL NOTES:**
- A NEW WET PIPE SYSTEM OF AUTOMATIC SPRINKLERS DESIGNED, INSTALLED AND TESTED PER NFPA 13 (2016 EDITION) THROUGHOUT THE ENTIRE BUILDING EXCEPT FOR THE ATTIC SPACES WHICH ARE PROTECTED BY AN EXISTING DRY SYSTEM THAT IS TO REMAIN AS IS.
 - A NEW 6" DIOL FIRE SPRINKLER WATER LINE TO BE INSTALLED, TESTED AND FLUSHED BY OTHERS IN ACCORDANCE WITH NFPA 24 AND LOCAL CODES. CONNECT NEW 6" DIOL TO THE EXISTING 8" FLANGED ELBOW IN THE BUILDING WITH A NEW 8" X 6" CONCENTRIC REDUCER.
 - THE EXISTING VALVE RISERS, TWO WET ALARM VALVES AND A DRY PIPE VALVE, LOCATED IN THE SPRINKLER ROOM ON THE FIRST FLOOR ARE TO REMAIN AS IS WITH NO ALTERATIONS.
 - RESIDENTIAL FIRE PROTECTION TO START WORK AT THE END OF THE EXISTING 4" MAIN OUTSIDE THE SPRINKLER ROOM ON THE FIRST FLOOR.
 - A NEW 4" WET STANDPIPE RISER WILL BE INSTALLED VERTICALLY THROUGH THE BUILDING IN THE "EVR" ROOMS (1011, 2011, 3011, 4011 AND 5011) TO SUPPLY THE NEW ZONE CONTROL ASSEMBLIES FOR EACH FLOOR.
 - NEW 4" MANUAL WET STANDPIPE RISERS WITH 2 1/2" HOSE VALVES WILL BE INSTALLED VERTICALLY IN STAIRWELLS "A", "B", "D" AND "E". DESIGN BASED ON NFPA 14 CLASS I STANDPIPE SYSTEM. THESE HOSE VALVES ARE FOR THE FIRE DEPARTMENT OR TRAINED PERSONNEL ONLY. THERE WILL BE A 2 1/2" X 2 1/2" X 4" SIAMESE FDC ON THE OUTSIDE OF THE BUILDING AT THE EXIT DOOR OF EACH STAIRWELL, EXCEPT FOR STAIRWELL "A", WHICH THE FDC IS LOCATED AT THE BACK OF THE BUILDING.
 - EXISTING DRY SYSTEM TO REMAIN INSTALLED AS IS (N.I.C.), ALL DRY SYSTEM PIPING IN THE EXISTING ATTIC SPACES AND OTHER SMALL SPACES SHALL REMAIN WITH NO ALTERATIONS. RFP TO REPLACE ALL SPRINKLERS IN ATTIC SPACES AND PERFORM A 5 YEAR INTERNAL.
 - ALL FIRE SPRINKLER TAMPER AND FLOW SWITCHES, NEW AND EXISTING, ARE TO BE CONNECTED TO THE NEW FIRE ALARM SYSTEM.
 - NEW EXPOSED MAIN PIPING (2"-4") TO BE SCHEDULE 10 BLACK STEEL WITH GROOVED ENDS AND DUCTILE IRON GROOVED FITTINGS.
 - NEW EXPOSED LINE PIPING (1"-1 1/2") TO BE SCHEDULE 40 BLACK STEEL WITH THREADED ENDS AND THREADED C.I. FITTINGS.
 - NEW CONCEALED PIPING (1"-2 1/2") TO BE CPVC BLAZEMASTERS PLASTIC WITH GLOUED ON PLASTIC FITTINGS.
 - WHITE CONCEALED RESIDENTIAL PENDENT SPRINKLERS WILL BE INSTALLED IN ALL THE CEILINGS WITHIN THE RESIDENTIAL PORTIONS OF THE BUILDING.
 - BRASS "QR" UPRIGHT SPRINKLERS WILL BE INSTALLED IN ALL CONCEALED SPACES
 - BATHROOMS IN APARTMENT UNITS THAT MEET THE REQUIREMENTS OF NFPA 13 (2016 EDITION), CHAPTER 8, SECTION 8.15.8.1.1 (65 SQ FT OR LESS, NON-COMBUSTIBLE OR LIMITED COMBUSTIBLE WALL AND CEILING SURFACE) WILL NOT REQUIRE FRIE SPRINKLER PROTECTION.
 - OWNER TO MAINTAIN A MINIMUM OF 40'F IN ALL AREA'S WHERE THERE IS WATER FILLED FIRE SPRINKLER PIPING.
 - PAINTING OF PIPE IS RESPONSIBILITY OF OWNER, IF REQUIRED (NOT IN RFP CONTRACT)

SYSTEM SYMBOL LEGEND

◆ = EX. DRY PIPE VALVE RISER	N.I.C. = NOT IN CONTRACT
▲ = EX. WET SHOT-GUN RISER	LPD = LOW POINT DRAIN
○ = HYDRAULIC CALC REF PT	N.O. = NORMALLY OPEN
⊗ = DRAIN VALVE	N.C. = NORMALLY CLOSED
⊕ = NEW ZONE ASSEMBLY	FW = FIRE WALL
⊖ = PLUG	— = NEW WET SPRINKLER PIPE
⊞ = HOSE VALVE	- - - = EXISTING WET SPRINKLER PIPE
	- · - · - = EXISTING DRY SPRINKLER PIPE



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"
FLR ELEV: 117'-5 1/4"
TOTAL FLR AREA= 20,752 SF

SPRINKLER HEAD INFORMATION, FOR THIS FLOOR ONLY

QTY	SIZE	ORIFICE	K-FACTOR	DESCRIPTION	MODEL	TEMP	ESCUTCHEON	SYMBOL
110	1/2"	7/16"	4.9	VIKING WHITE RESIDENTIAL PENDENT	VK468	155'	CONCEALED	◆
72	1/2"	7/16"	4.0	VIKING WHITE RESIDENTIAL HOR. SIDEWALL	VK486	155'	RECESSED	○
34	1/2"	1/2"	5.6	VIKING BRASS "QR" UPRIGHT	VK300	155'	NONE	⊕
10	1/2"	1/2"	5.6	VIKING WHITE "QR" HOR. SIDEWALL	VK305	155'	RECESSED	◁
4	1/2"	1/2"	5.6	VIKING WHITE "QR" PENDENT	VK302	155'	RECESSED	⊞
2	1/2"	1/2"	5.6	VIKING WHITE "EQ/RECT" DRY SIDEWALL	VK188	155'	RECESSED	⊞

TOTAL HD'S= 232

PROJECT NAME: MOTHERHOUSE SENIOR HOUSING 605 STEVENS AVE PORTLAND, ME. 04103	FIRE SPRINKLER PLANS AND DETAILS REQUIRED APPROVALS: STATE FIRE MARSHALS OFFICE LOCAL FIRE DEPARTMENT OWNER	RESIDENTIAL FIRE PROTECTION, LLC DATE: 7-27-2017
CONTRACT WITH: PORTLAND BUILDERS, INC 70 CENTER STREET, SUITE 304 PORTLAND, ME. 04101 PH: (207) 879-0118	DRAWN BY: TPP NICET III (00864) CERTIFICATION # 100854	SCALE: 1/8" = 1'-0"
RESIDENTIAL FIRE PROTECTION 64 DAGGETT HILL ROAD, GREENE, MAINE 04236 PH: (207) 946-3473 FAX: (207) 946-3474		CHECKED BY: SJC NICET III (00864) CERTIFICATION # 78065
CONTRACTOR LICENSE #511		CONTRACT NO. C17011
CONTRACTOR RMS #80		DRAWING NO. 1 OF 5