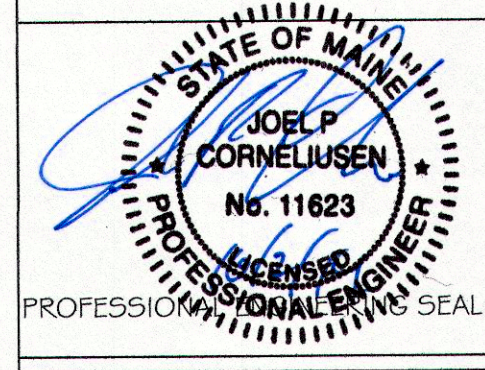


		EQUIPMENT LIST		QTY.	PART NO.
MANUFAC.	PC. NO.				
WATTS		1	4" BACKFLOW PREVENTER	1	
		2	EXTENDED COVERAGE SIDEWALL SPRINKLER QUICK RESPONSE 1.1.2K	16	
		3	UPRIGHT SPRINKLER QUICK RESPONSE 5.6K 1.65"	21	
		4	SIDEWALL SPRINKLER QUICK RESPONSE WITH CAGE 5.6K	4	
		5	PENDENT SPRINKLER QUICK RESPONSE 5.6	11	
		6	UPRIGHT SPRINKLER CONCEALED SPACE 2.8K	16	
		7	UPRIGHT SPRINKLER QUICK RESPONSE 5.6K 2.1 2"	45	
NOTE: PROVIDE EXTRA SPRINKLER HEADS WRENCH AND BOX AS REQUIRED PER NFPA 13					

WARNING:
IT IS A VIOLATION OF THE LAW TO ALTER ANY ITEM IN ANY WAY UNLESS ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER WHO SEALS THE DRAWING IDENTIFYING SUCH ALTERATIONS.

DO NOT USE FOR CONSTRUCTION UNLESS SEALED AND MARKED "FOR CONSTRUCTION". ALL PIPING, HANGERS AND EQUIPMENT IS SHOWN DIAGRAMMATICALLY. THE ACTUAL ROUTING OF PIPING AND EXACT LOCATIONS OF HANGERS AND EQUIPMENT SHALL BE DETERMINED IN THE FIELD AND INSTALLED IN ACCORDANCE WITH ALL THE APPLICABLE CODES. ANY CHANGES TO THE DESIGN SHALL BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.

THE INFORMATION SHOWN ON THIS DRAWING IS BASED UPON BUILDING PLANS AND LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION ON THE DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES PRIOR TO INSTALLATION.



OFFICIAL SEAL:
SHALL BE "WET" STAMPED AND SIGNED IN BLUE INK. ANY COPY OF THIS DRAWING SHALL NOT BE CONSIDERED ACCURATE AND SHALL NOT BE USED FOR ANY PURPOSE

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PREPARED FOR:

PREPARED BY:
CORNELIUSSEN CONSULTING INC.

IN CONJUNCTION WITH:

PROJECT:
1844 FOREST AVE BUILDING

ADDRESS: 1844 FOREST AVE, PORTLAND MAINE

DRAWN: JPC

CHECKED: JPC

FILE:

DATE: 17-JULY -2014

SCALE: AS NOTED

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PAGE 1 OF 2
REV 0.3

- 16 EXTENDED COVERAGE SIDEWALL SPRINKLER QUICK RESPONSE
- 155' SIDEWALL 3/4" NPT K=11.2
- 21 UPRIGHT SPRINKLERS QUICK RESPONSE
- 155' UPRIGHT 1/2" x 1/2" NPT K=5.6 BRASS
- 4 SIDEWALL SPRINKLERS (WITH CAGE) QUICK RESPONSE
- 165' PENDENT 1/2" x 1/2" NPT K=5.6 BRASS
- 11 PENDENT SPRINKLER QUICK RESPONSE
- 165' PENDENT 1/2" x 1/2" NPT K=5.6 BRASS
- 16 UPRIGHT SPRINKLER CONCEALED SPACE QUICK RESPONSE
- 175' 1/2" NPT K=2.8 BRASS

LEGEND

- PENDANT SPRINKLER HEAD 5.6K
- PENDANT & UPRIGHT CONCEALED SPACE SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD 5.6K
- EC ◁ EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD 11.2K
- C ◁ SIDEWALL SPRINKLER HEAD 5.6K (WITH CAGE)
- ⊞ HYDRAULIC REFERENCE NODE
- SPRINKLER PIPING
- SPRINKLER PIPING UNDER FLOOR
- - - HYDRAULIC MOST DEMANDING

GENERAL NOTES:

- DESIGN & INSTALLATION TO CONFORM TO NFPA 13
- ALL EQUIPMENT TO BE UL LISTED EXCEPT AS ALLOWED BY NFPA 13
- ALL PIPE AND HANGERS TO BE INSTALLED PER NFPA 13
- ALL PIPES TO BE SIZE PER HYDRAULIC CALCULATIONS
- ALL PIPING TO BE BLACK IRON. ALL 1/4" PIPE AND SMALLER SCHED 40. ALL 1/2" AND LARGER MAY BE SCHED 10.
- OCCUPANCY:
BASEMENT- STORAGE & DANCE HALL
1ST FLOOR- DANCE HALL
2ND FLOOR- STORAGE (FUTURE APARTMENT)
- SPRINKLER HEADS AND PIPING CALCULATED AS SHOWN. ACQUIRE WRITTEN AUTHORIZATION FROM THE ENGINEER OF RECORD BEFORE MAKING ANY CHANGES TO THE SPRINKLER HEAD OR PIPING LOCATION.
- LOCATE FDC PER FIRE DEPARTMENT REQUIREMENTS
- BUILDING FIRE ALARM BY OTHERS

WATER SUPPLY:

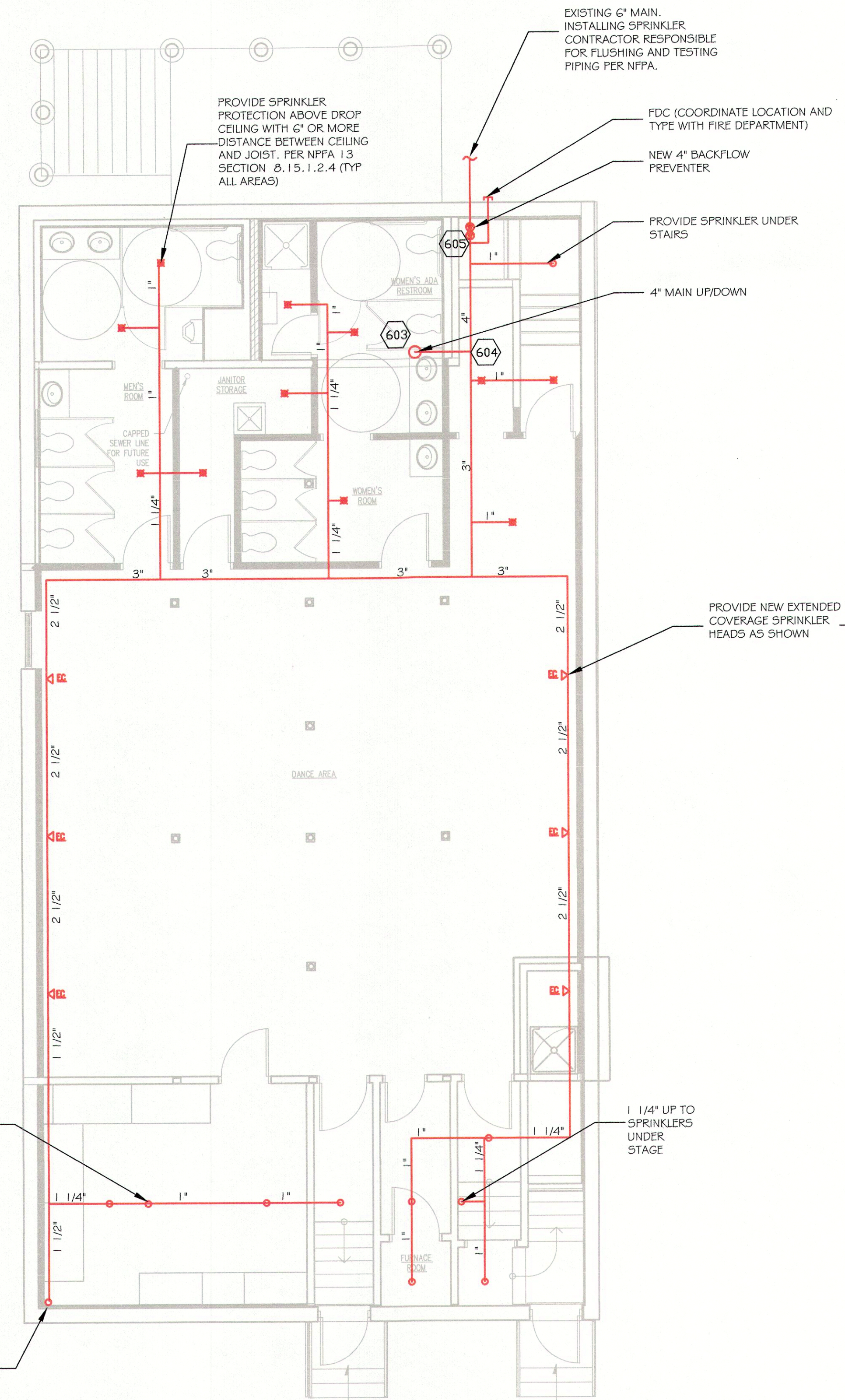
WATER SUPPLY PER PORTLAND WATER DEPARTMENT
STATIC: 68 PSI
RESIDUAL: 66 PSI
FLOW: 1087 GPM

DESIGN METHOD

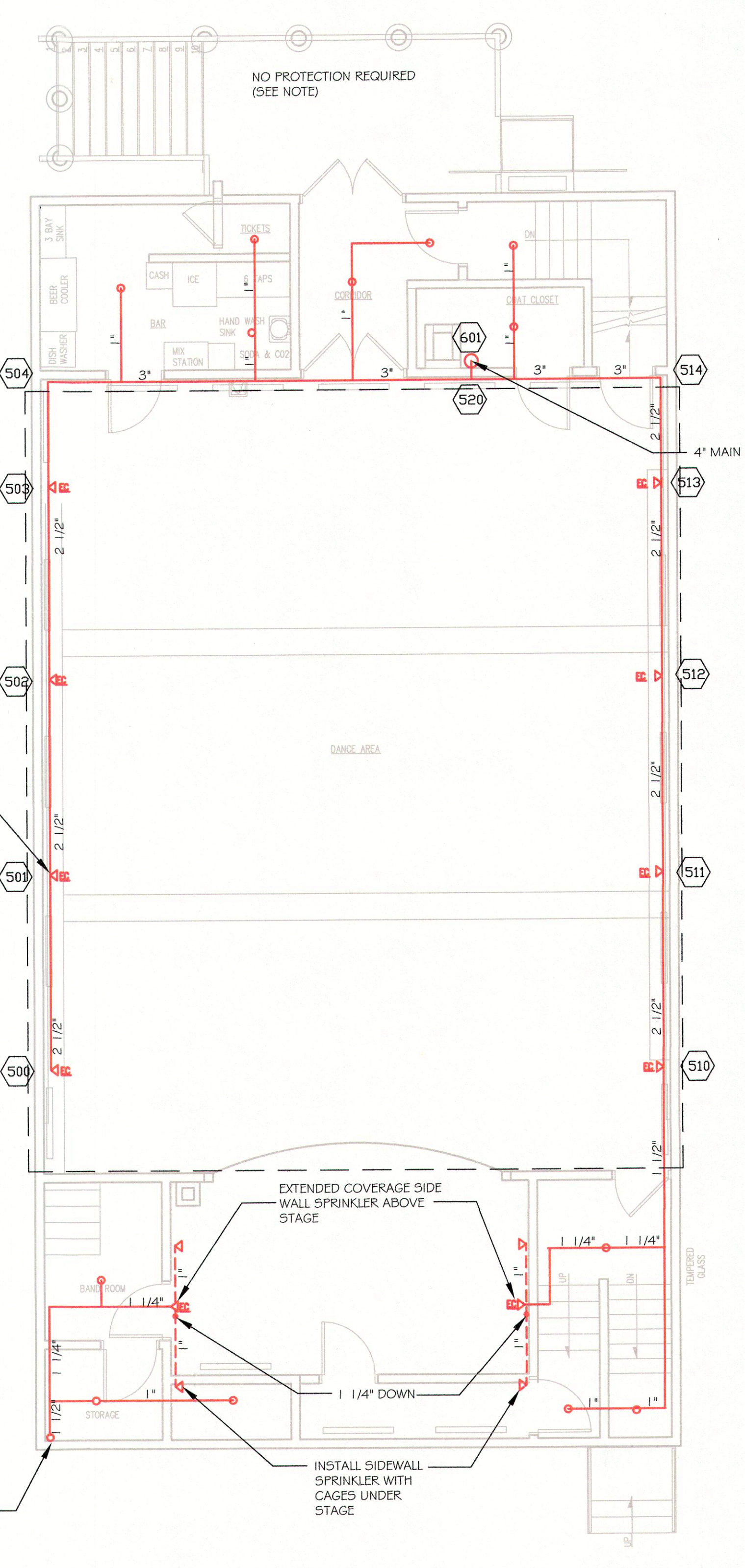
BUILDING: 2 STORY + 1 BASEMENT
SQUARE FOOTAGE: 2589 SQ FT PER FLOOR, 7767 SQ FEET TOTAL
OCCUPANCY: LIGHT & ORDINARY HAZARD
CONSTRUCTION: COMBUSTIBLE, WOOD FRAMED.
SPRINKLER SYSTEM DESIGN: FULL SPRINKLER COVERAGE IN ALL AREAS.
SPRINKLER CALCULATIONS: PER NFPA 13
WATER SUPPLY: EXISTING 6"

GENERAL INFORMATION

DESIGN ENGINEER: JOEL CORNELIUSSEN PE, FIRE PROTECTION ENGINEER
ENGINEER OF RECORD-CONSTRUCTION: TBD
INSTALLING CONTRACTOR: A-AMERICAN FIRE
FIRE ALARM -BY OTHERS



BASEMENT FLOOR PLAN LAYOUT
SCALE: 3/16" = 1'-0"



FIRST FLOOR PLAN LAYOUT
SCALE: 3/16" = 1'-0"

IMPORTANT NOTE

OCCUPANCY CLASSIFICATION IS BASED ON INFORMATION FROM BUILDING OWNER. IT IS THE BUILDING OWNERS RESPONSIBILITY TO MAINTAIN THE OCCUPANCY CLASSIFICATION OF THE BUILDING. ANY CHANGE TO THE TYPE OF OCCUPANCY WILL REQUIRE A REVIEW OF THE SPRINKLER SYSTEM AND POSSIBLE UPGRADES

IT IS THE BUILDING OWNERS RESPONSIBILITY TO MAINTAIN HEAT IN THE BUILDING AT ALL TIMES TO PREVENT FREEZING OF THE PIPES. THIS INCLUDED THE ATTIC SPACE.
IT IS THE BUILDING OWNERS RESPONSIBILITY TO MAINTAIN THE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 25.

IMPORTANT NOTE

PER NFPA 13 SECTION 8.15.6 SPACE UNDER GROUND FLOORS, EXTERIOR DOCKS AND PLATFORMS DETAILS THE REQUIREMENT FOR OMITTING SPRINKLER HEADS IN SUB-SECTION 8.15.6.2 WHICH STATES "SPRINKLERS SHALL BE PERMITTED TO BE OMITTED FROM SPACE UNDER GROUND FLOORS, EXTERIOR DECKS AND PLATFORMS WHERE ALL OF THE FOLLOWING CONDITIONS PREVAIL"
1) THE SPACE IS NOT ACCESSIBLE FOR STORAGE PURPOSES AND IS PROTECTED AGAINST THE ACCUMULATION OF WIND-BORNE DEBRIS
2) THE SPACE CONTAINS NO EQUIPMENT SUCH AS CONVEYORS OR FUEL FIRE EQUIPMENT
3) THE FLOOR OVER THE SPACE IS OF TIGHT CONSTRUCTION
4) NO COMBUSTIBLE OR FLAMMABLE LIQUIDS OR MATERIALS THAT UNDER FIRE CONDITIONS WOULD CONVERT INTO COMBUSTIBLE OR FLAMMABLE LIQUIDS ARE PROCESSED, HANDLED, OR STORED ON THE FLOOR ABOVE THE SPACE.
IT IS THE BUILDING OWNERS RESPONSIBILITY TO PREVENT THE ACCUMULATION OR STORAGE OF FLAMMABLE MATERIALS UNDER THE STAIRS LEADING INTO THE BUILDING.
NO SPRINKLER PROTECTION IS PROVIDED UNDER THE FRONT STAIRS.

