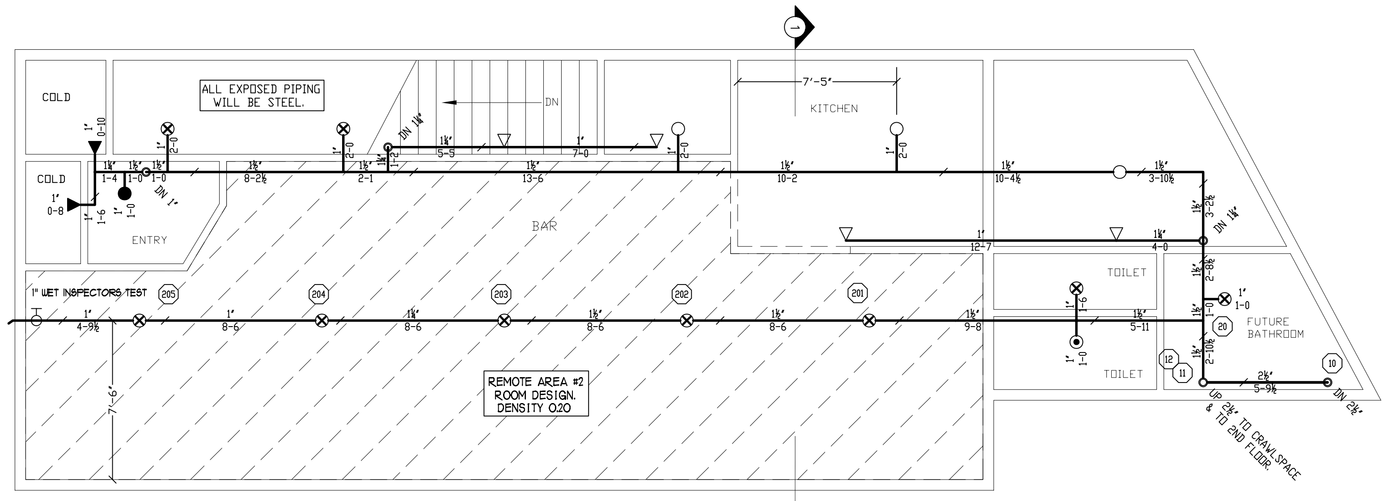
HYDRAULIC DESIGN	
SYSTEM	AREA #2 1ST FLOOR
SPRINKLERS CALCULATED	5 SPRINKLERS
SPRINKLER DENSITY REQ'D	0.20 GPM
AREA OF DISCHARGE	5 SPRINKLERS
HOSE ALLOWANCE	250 GPM
SPRINKLER SYSTEM DEMAND @ TEST PT	387 GPM
RESIDUAL PRESSURE @ TEST PT	64 PSI
SAFETY FACTOR @ BOR	5.46 PSI

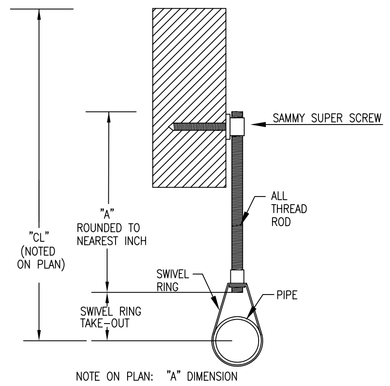
HYDRAULIC DESIGN	
SYSTEM	AREA #1 3RD FLOOR
SPRINKLERS CALCULATED	4 SPRINKLERS
SPRINKLER DENSITY REQ'D	0.05 GPM
AREA OF DISCHARGE	3RD FLOOR
HOSE ALLOWANCE	N/A
SPRINKLER SYSTEM DEMAND @ TEST PT	59 GPM
RESIDUAL PRESSURE @ TEST PT	58 PSI
SAFETY FACTOR @ BOR	12.82 PSI



GROUND FLOOR FIRE PROTECTION

SCALE 1/4"=1'-0"

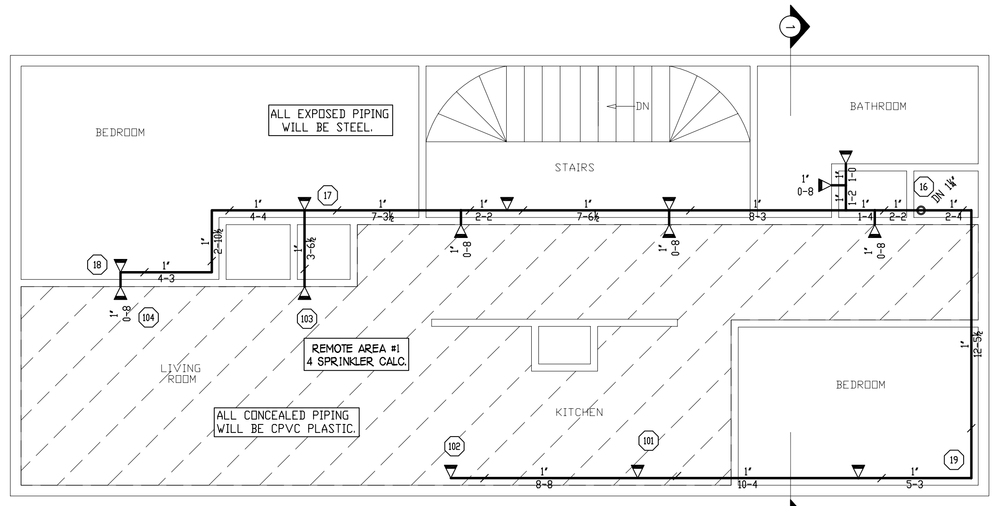
QUANTITY ○ = 12
QUANTITY ⊗ = 10
QUANTITY ● = 1
QUANTITY ◁ = 4
QUANTITY ◀ = 2



NOTE ON PLAN: "A" DIMENSION
PIPE SIZES 1" THROUGH 4" – ROD SIZE 3/8"
PIPE SIZES 5" THROUGH 8" – ROD SIZE 1/2"

TYPE #10 HANGER

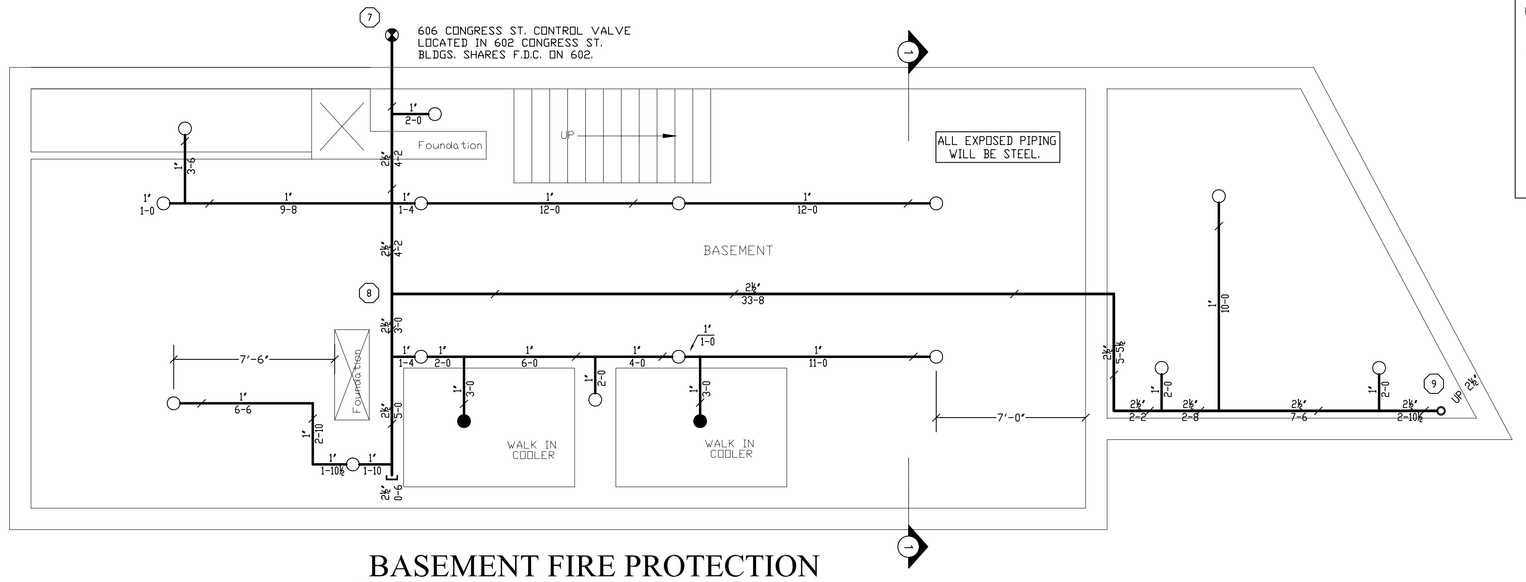
NO SCALE



THIRD FLOOR FIRE PROTECTION

SCALE 1/4"=1'-0"

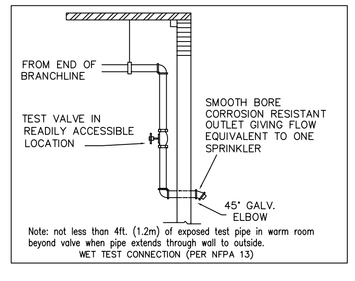
QUANTITY ◁ = 14

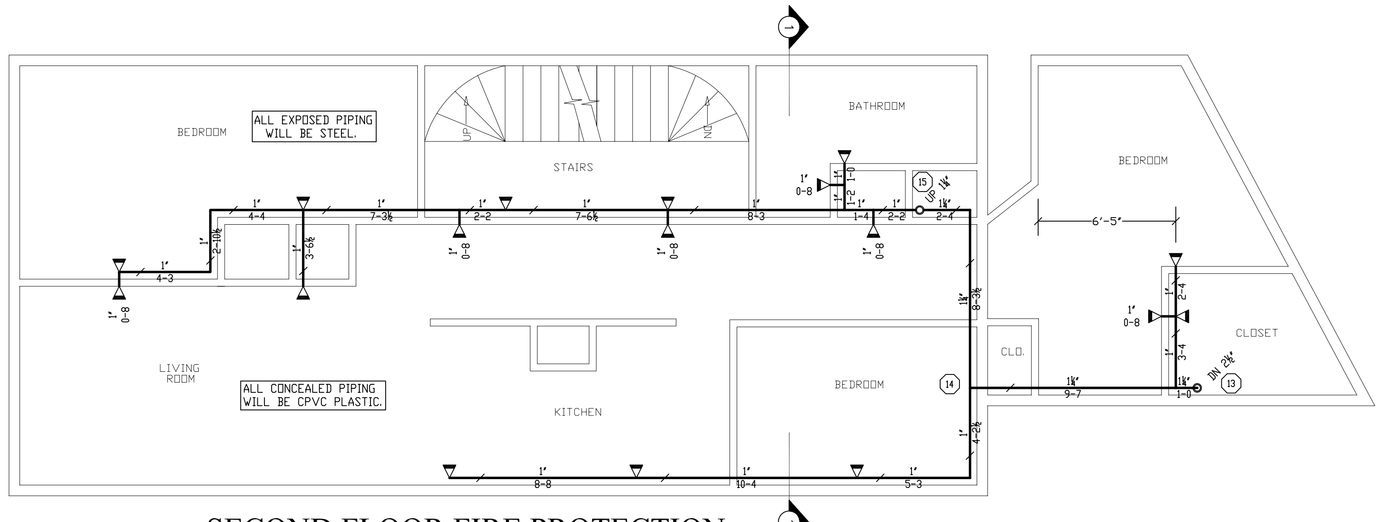


BASEMENT FIRE PROTECTION

SCALE 1/4"=1'-0"

QUANTITY ○ = 15
QUANTITY ● = 2





SECOND FLOOR FIRE PROTECTION

SCALE 1/4"=1'-0"

QUANTITY ◁ = 17

⊗ = UPRIGHT WITH PENDANT BELOW.

REVISIONS	NOTES

HEAD COUNT									
SPRINKLER TYPE	IDENTIFICATION NO.	MFG.	ESC.	MODEL	FINISH	ORIFICE	TEMP.	SYMBOL	QUANT.
QUICK RESP. UPRIGHT K= 5.6	TY3131	TYCO	N/A	TY-FRB	BRASS	1/2"	155°	○	27
Q.R. DRY PENDANT K= 5.6	TY3255	TYCO	SEMI-REC.	DS-1	WHITE	1/2"	155°	●	3
QUICK RESP. PENDANT K= 5.6	TY 3231	TYCO	SEMI-REC.	TY-FRB	WHITE	1/2"	155°	⊗	10
QUICK RESP. SIDEWALL K= 5.6	TY 3331	TYCO	SEMI-REC.	TY-FRB	WHITE	1/2"	155°	◁	4
Q.R. DRY SIDEWALL K= 5.6	TY3355	TYCO	2 PIECE	DS-1	CHROME	1/2"	155°	◀	2
QUICK RESP. SIDEWALL K= 4.2	TY1334	TYCO	N/A	LF11	WHITE	1/2"	155°	◁	31
TOTAL SPRINKLERS THIS DRAWING									77

STANDARD SYMBOLS	
	– POST INDICATOR VALVE
	– KEY VALVE
	– FIRE HYDRANT
	– FIRE DEPT. CONNECTION
	– O.S. & Y GATE VALVE
	– SWING CHECK VALVE
	– NEW UNDERGROUND
	– EXIST UNDERGROUND

STANDARD SYMBOLS	
	– ALARM CHECK VALVE
	– RISER W/ALARM VALVE
	– RISER W/DRY VALVE
	– RISER W/ELEC. FLOW SWITCH
	– RISER W/DELUGE VALVE
	– WATER MOTOR BELL
	– ELECTRIC BELL
	– FLUSH FIRE DEPT. CONNECTION

INSPECTIONS	
1.	
2.	
3.	
4.	
5.	
RESPONSIBLE MANAGING SUPERVISOR #348	
CONTRACTOR LICENSE #295	

606 CONGRESS STREET
PORTLAND, MAINE 04101

FIRE PROTECTION PLAN

FREEDOM FIRE PROTECTION, INC.
209 QUAKER RIDGE ROAD
CASCO, MAINE 04015

JOB No.	M0040
DATE	6/27/11
DRAWN BY	MJN
SCALE	AS NOTED
SHEET No.	FP-2of2

N/A