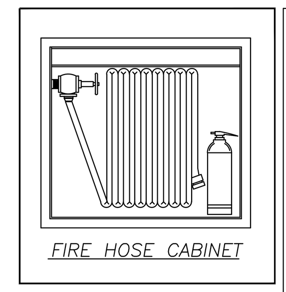
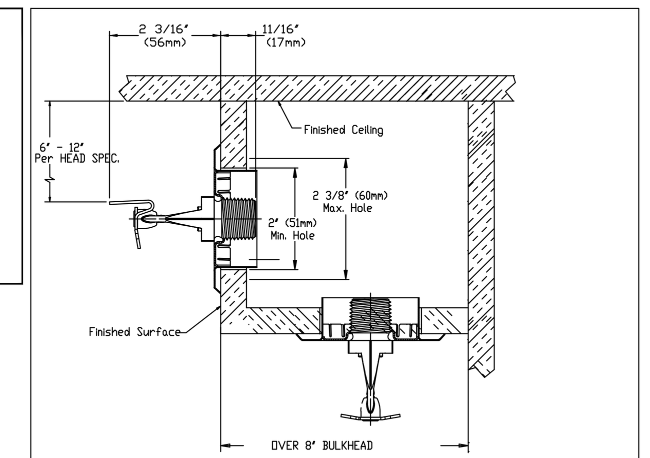
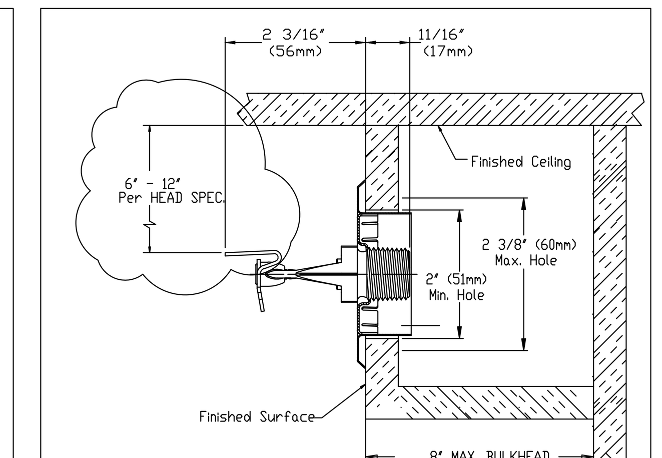
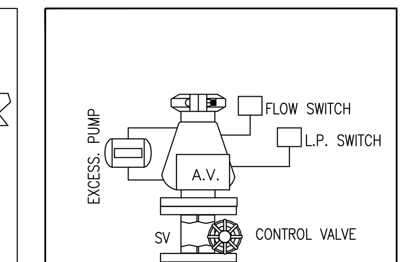

FIRE HOSE CABINET



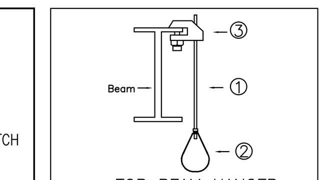
SIDEWALL & PDT. SPR. DETAIL
N.T.S.



SIDEWALL DETAIL
N.T.S.

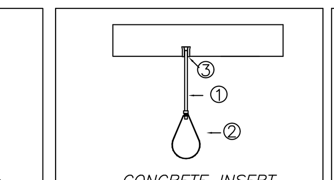


ALARM VALVE DETAIL

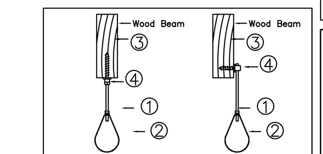


TOP BEAM HANGER
HANGER CODE #1

1		
①	ATR	1
②	SWIVEL RING	1
③	J.TOP BEAM CLAMP	1
④	NIL	0
⑤	NIL	0


CONCRETE INSERT
HANGER CODE #3

3		
①	ATR	1
②	SWIVEL RING	1
③	CONC. SHIELD	1
④	NIL	0
⑤	NIL	0



HANGER MATE

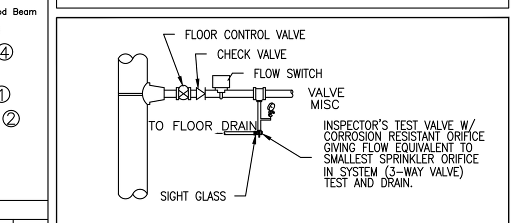
①	COACH SCREW ROD	1
②	SWIVEL RING	1
③	NIL	0
④	NIL	0
⑤	NIL	0

HANGING NOTES:
A. STEEL PIPE

1. THE DISTANCE BETWEEN HANGERS SHALL NOT EXCEED 12'-0" FOR 1" AND 1¼" PIPE AND 15'-0" FOR 1½" AND LARGER PIPES.
2. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT BE GREATER 36" FOR 1" PIPE, 48" FOR 1¼" PIPE AND 60" FOR 1½" OR LARGER PIPE.
3. FOR UP TO AND INCLUDING 4" PIPE USE 3/8" ATR;
   FOR 6" PIPE USE 1/2" ATR.

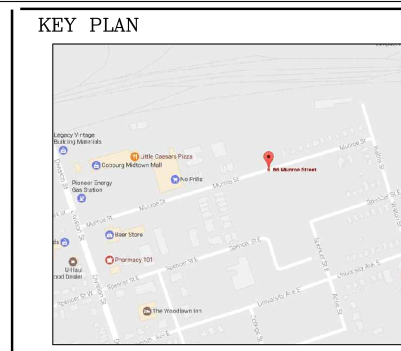
B. CPVC PIPE

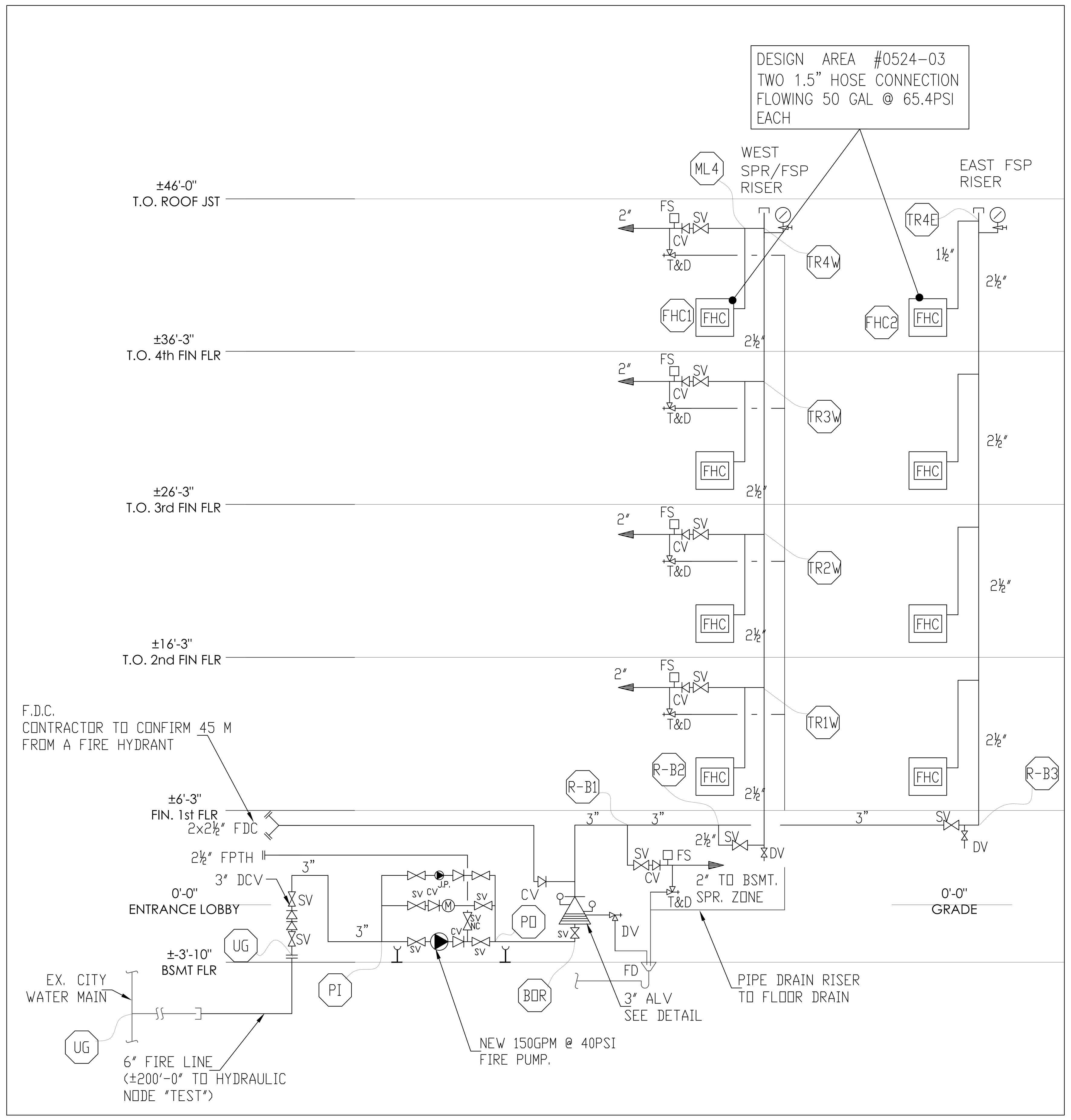
1. THE DISTANCE BETWEEN HANGERS SHALL NOT EXCEED 8'-0" FOR 1" PIPE, 10'-0" FOR 1¼" TO 1½" AND 12'-0" FOR 2" PIPE.



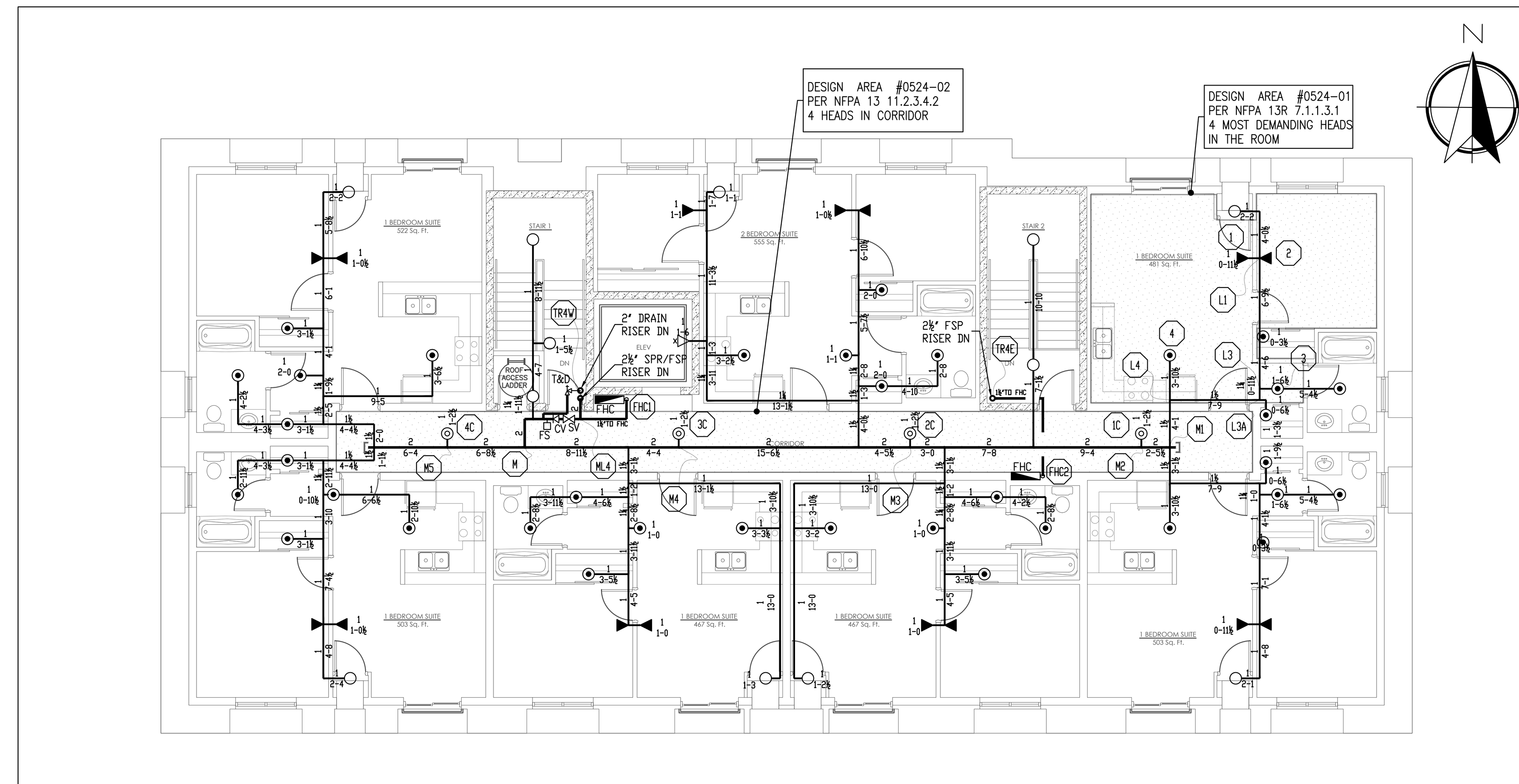
FLOOR CONTROL VALVE
N.T.S.

KEY PLAN

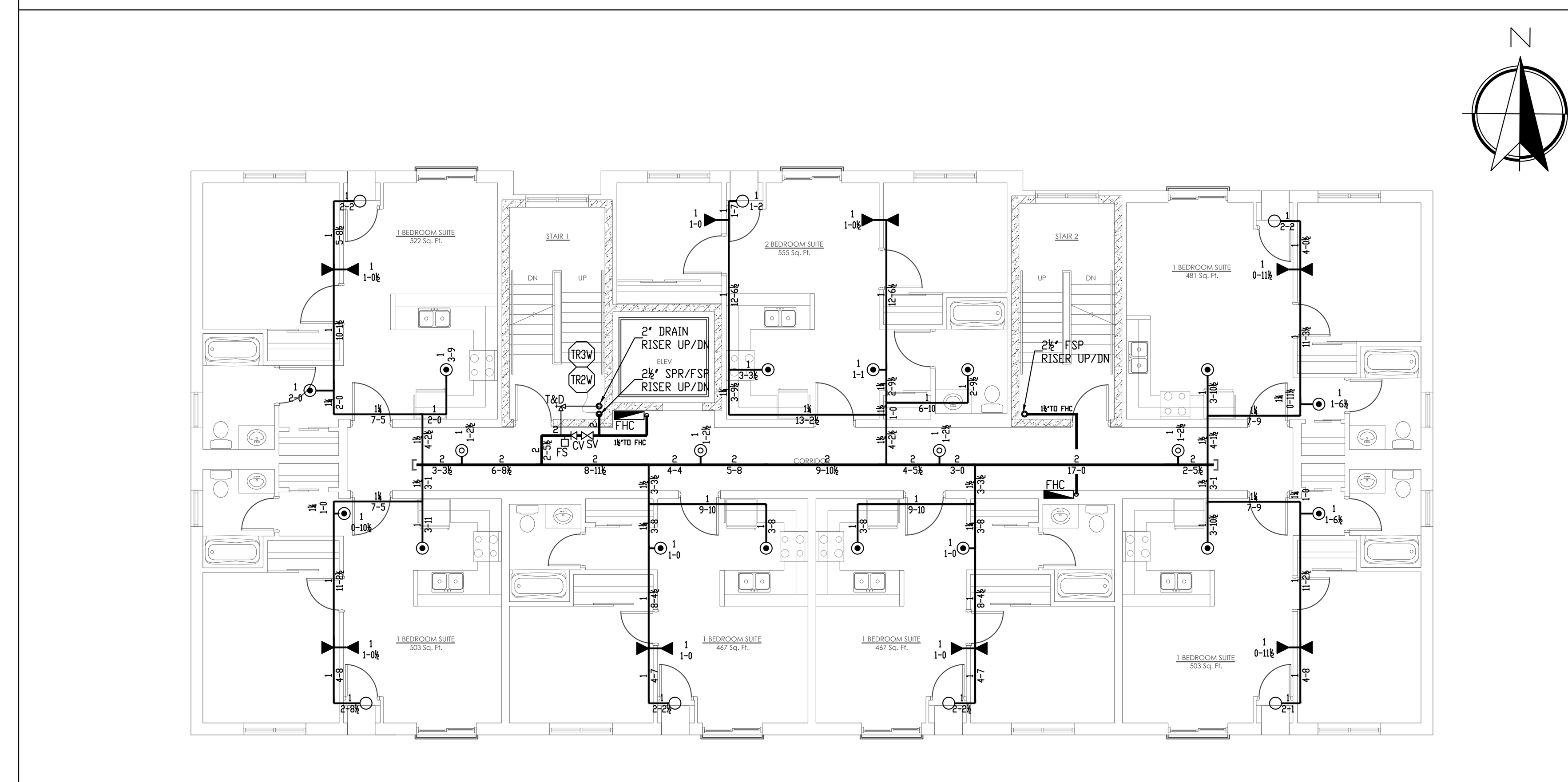




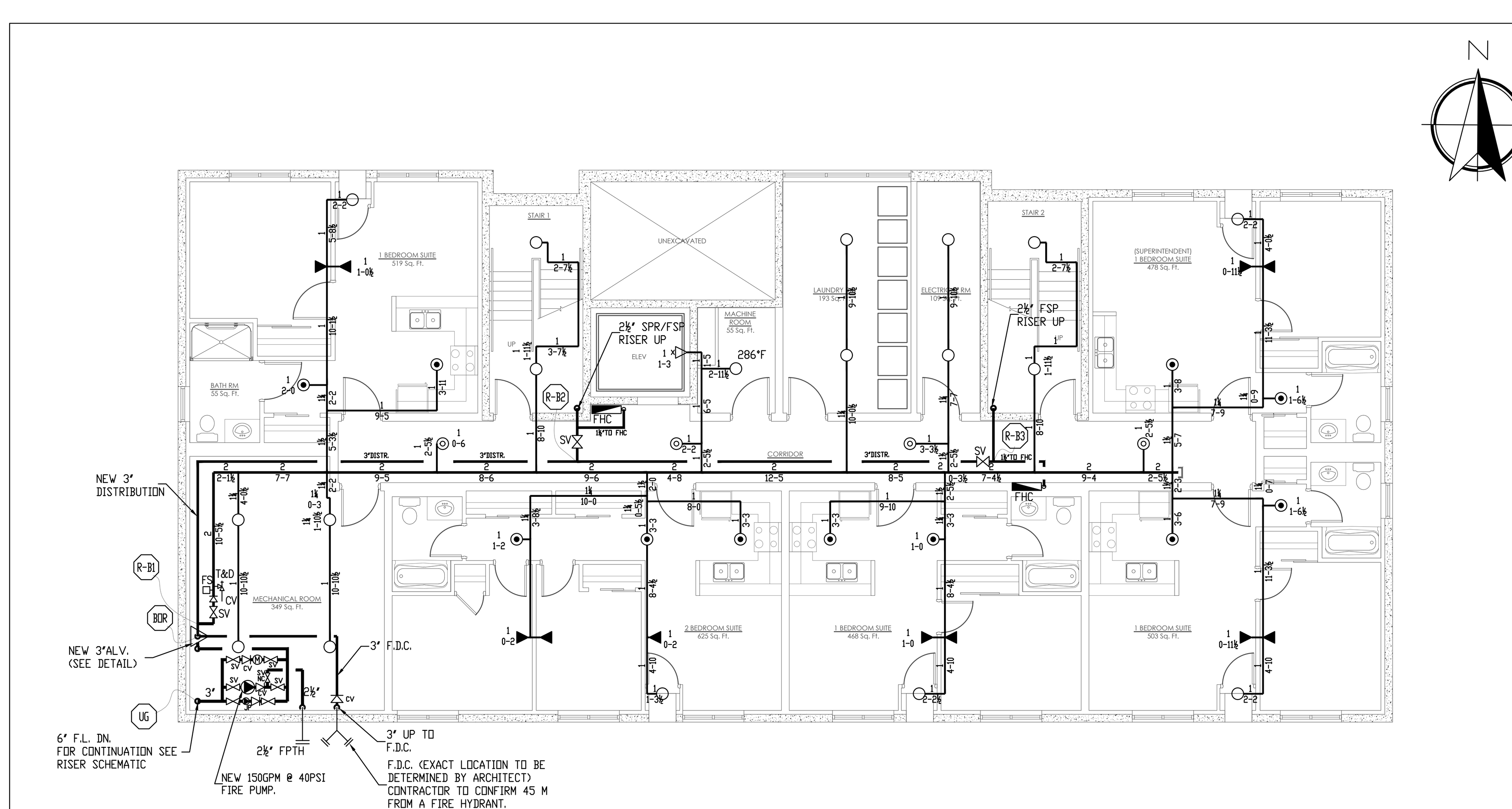
FIRE PROTECTION RISER SCHEMATIC
N.T.S.



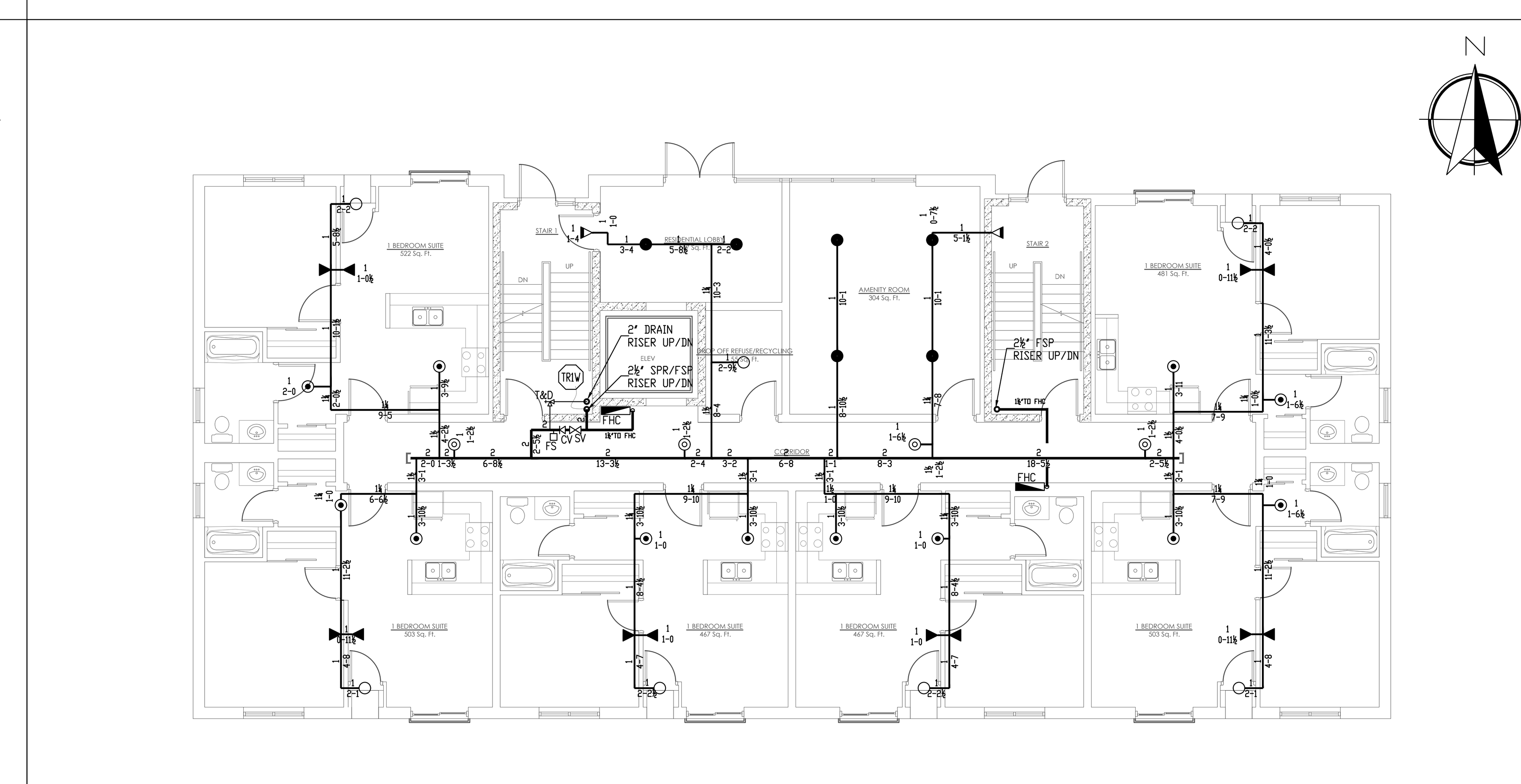
FOURTH FLOOR PLAN
SCALE: 1:1/8"=1'-0" (7 UNITS/FLOOR)



TYPICAL 2nd-3rd FLOOR PLAN
SCALE: 1:1/8"=1'-0" (7 UNITS/FLOOR)



BASEMENT FLOOR PLAN
SCALE: 1:1/8"=1'-0"



FIRST FLOOR PLAN
SCALE: 1:1/8"=1'-0" (6 UNITS)

FIRE PUMP NOTES:

1. PROVIDE PACKAGED FIRE PUMP.
2. INSTALLATION OF THE FIRE PUMP TO COMPLY WITH NFPA 20, OBC AND AHJ.
3. POWER TO THE FIRE PUMP TO BE PROVIDED BY DIV. 16.

SYSTEM NOT DESIGNED FOR FLEX DROPS

NEW WET SPR. SYST. - PIPE SCHEDULE
1" TO 2" SCH. CPVC INSIDE ENCLOSURES
(FOR THE RESIDENTIAL UNITS)
1" TO 1¼" SCH. 40 BLACK
1½" TO 6" SCH. 10 BLACK

COORDINATION NOTES:

1. JOB SITE VISIT REQUIRED. THE FIRE PROTECTION CONTRACTOR, AFTER VISITING THE SITE TO SURVEY ALL SITE CONDITIONS, SHALL REPORT IN WRITING, ANY CONDITIONS WHICH PREVENT OR INHIBIT THE CONTRACTOR FROM INSTALLING THE SPRINKLER SYSTEM ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IF THE CONTRACTOR DOES NOT FORWARD SUCH REPORT TO THE DESIGN ENGINEER IN ADVANCE OF THE INSTALLATION PROCESS, IT SHALL BE DEEMED THAT THE CONTRACTOR ACCEPTS THE PREVAILING SITE CONDITIONS WITHOUT ADJUSTMENT FOR INSTALLATION.
2. HANGER TO SUIT STRUCTURE & NFPA STANDARDS - CONFIRM STRUCTURE CAPACITY TO CARRY THE LOAD OF THE SPRINKLER SYSTEM WITH A STRUCTURAL ENGINEER.
3. PRIOR FABRICATION AND INSTALLATION, THE SYSTEM MUST BE FULLY COORDINATED WITH ALL THE EQUIPMENT INSIDE THE CEILING SPACE.

NOTES:

1. ALL DIMENSIONS ARE CENTER TO CENTER
2. MAX. DEFLECTOR DISTANCE 12" U/S DECK OR SLAB U.N.O.
3. CONTRACTOR TO MAKE SITE CHECK FOR INTERFERENCES, DIMENSIONS, PIPING LOCATION & ELEVATION PRIOR TO FABRICATION & INSTALLATION
4. ALLOW FOR PIPING, FITTINGS, ETC. TO INSTALL PENDANT HEADS
5. HANGER TO SUIT STRUCTURE & NFPA STANDARDS
6. ALL BIDDERS TO VISIT SITE PRIOR TO PRICING & MAKE FAMILIAR WITH EXISTING SITE CONDITIONS
7. ALLOW FOR OFFSET DUE TO INTERFERENCE & COORDINATION
8. CONTRACTOR TO ALLOW FOR HEADS U/S OBSTRUCTIONS OVER 1200mm (4'-0" WIDE) AND AS OUTLINED BY NFPA #13.
9. CONTRACTOR TO CONFIRM APPROVALS BEFORE INSTALLATION
10. THE OWNER TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE WET SPRINKLER PIPE ARE INSTALLED.
11. SYSTEM DESIGNED TO NFPA #13, 13R STANDARD & OBC CODE.
12. CONTRACTOR TO ALLOW TWENTY (20) ADDITIONAL HEADS FOR UNFORESEEN OBSTRUCTIONS.
13. ALL EXPOSED PIPE TO BE STEEL PIPE.
14. PROVIDE HIGH TEMPERATURE HEADS IN CLOSE VICINITY OF UNIT HEATER.
15. PROVIDE SPRINKLER PROTECTION TO EVERY COMBUSTIBLE CONCEALED SPACE.

REVISION/ISSUED FOR

DATE	DESCRIPTION	BY
APR.2017	ISSUED FOR PERMIT	M.S.

IMPORTANT
TO PREVENT FREEZING OF WATER IN WET PIPE SPRINKLER PIPING, OWNERS TO PROVIDE SUFFICIENT HEAT THROUGHOUT AREAS WHERE SPRINKLER PIPES ARE INSTALLED.

SPRINKLER SCHEDULE & LEGEND

SYMBOL	SPRINKLER DESCRIPTION	ORIFICE	"K"	TEMP.	FINISH	QTY.
⦿	RAPID RESPONSE LFII-TY2234. (16'x16')	1/2"	4.9	155°F	T.B.D.	88
◀	RAPID RESPONSE LFII-TY2334 (16'x16')	1/2"	4.4	155°F	T.B.D.	68
▷	STD. RESP. S'WALL C/W GUARD	1/2"	5.6	212°F	BRS.	2
◎	Q.R. RELIABLE LT56(CORRIDOR) 8'x28'	1/2"	5.6	155°F	T.B.D.	16
○	QUICK RESP. UPRIGHT	1/2"	5.6	155°F	BRS	91
▷	Q.R. DRY S'WALL IN VESTIBULE	1/2"	5.6	155°F	CHR.	2
●	QUICK RESP. SEMI-RECESSED	1/2"	5.6	155°F	CHR.	6

BMGA SPRINKLERS LTD.
FIRE PROTECTION ENGINEERING
297 CREEK PATH AVENUE, OAKVILLE, ONT., L6L 6T8
email: sales@bmgasprinklers.ca PHONE: (905) 510-0865
www.bmgasprinklers.ca

REGISTERED PROFESSIONAL ENGINEER
APR.24.2017
G. A. STOITA
100140042
PROVINCE OF ONTARIO

IMPORTANT
In locations subject to freezing conditions, it is the owner's responsibility to provide heat (min. 4 °C.) throughout wet pipe sprinkler systems areas and in enclosures for dry pipe, deluge and other types of valves controlling water supplies to sprinkler systems.

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PROJECT:
PROPOSED DEVELOPMENT
BUILDING 'B'
86 MUNROE STREET, COBOURG, ONTARIO

DRAWING TITLE:
FIRE PROTECTION - SPRINKLER LAYOUT

DESIGNER	M.S.
SCALE	1/8" = 1'-0"
DATE	APR. / 2017
CHECK BY	G.S.
CONTRACT NO.	0524
DWG. NO.	SP - 1

CONSTRUCTION NORTH