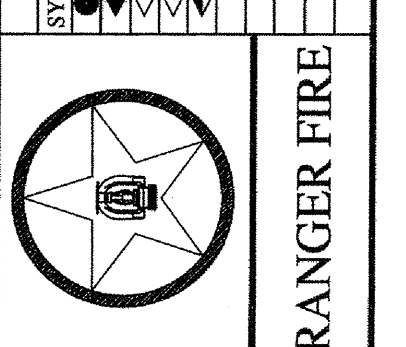


CONFIDENTIALITY STATEMENT
 The drawings are prepared for the use of the project named herein and are not to be used for any other project without the written consent of Ranger Fire, Inc. All information herein shall be held in confidence and shall not be disclosed to any third party without the written consent of Ranger Fire, Inc.

GENERAL CONTRACTOR:
 RANGER FIRE, INC.
 920 SOUTH MAIN STREET
 SUITE 200
 GRAPEVINE, TEXAS 76051
 PHONE: 817-410-9070

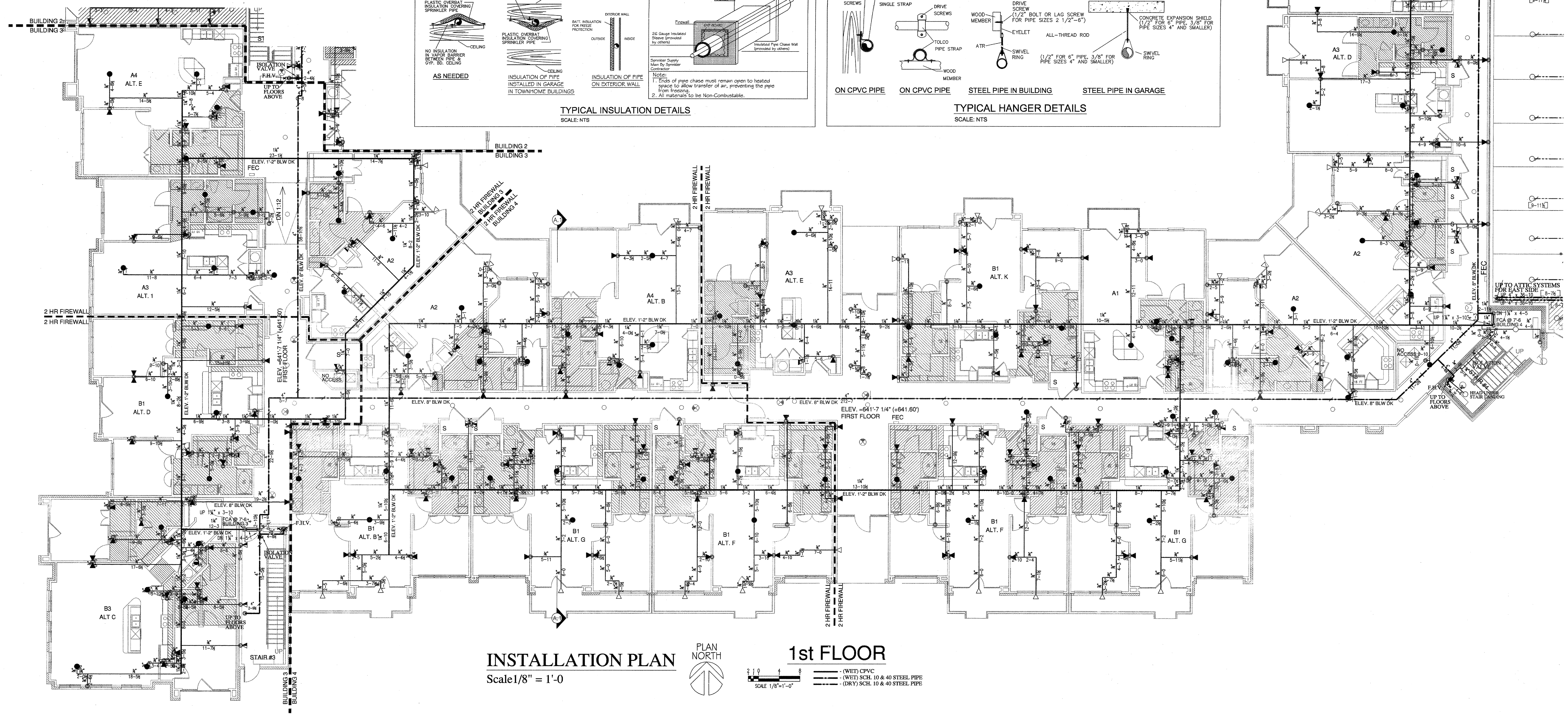
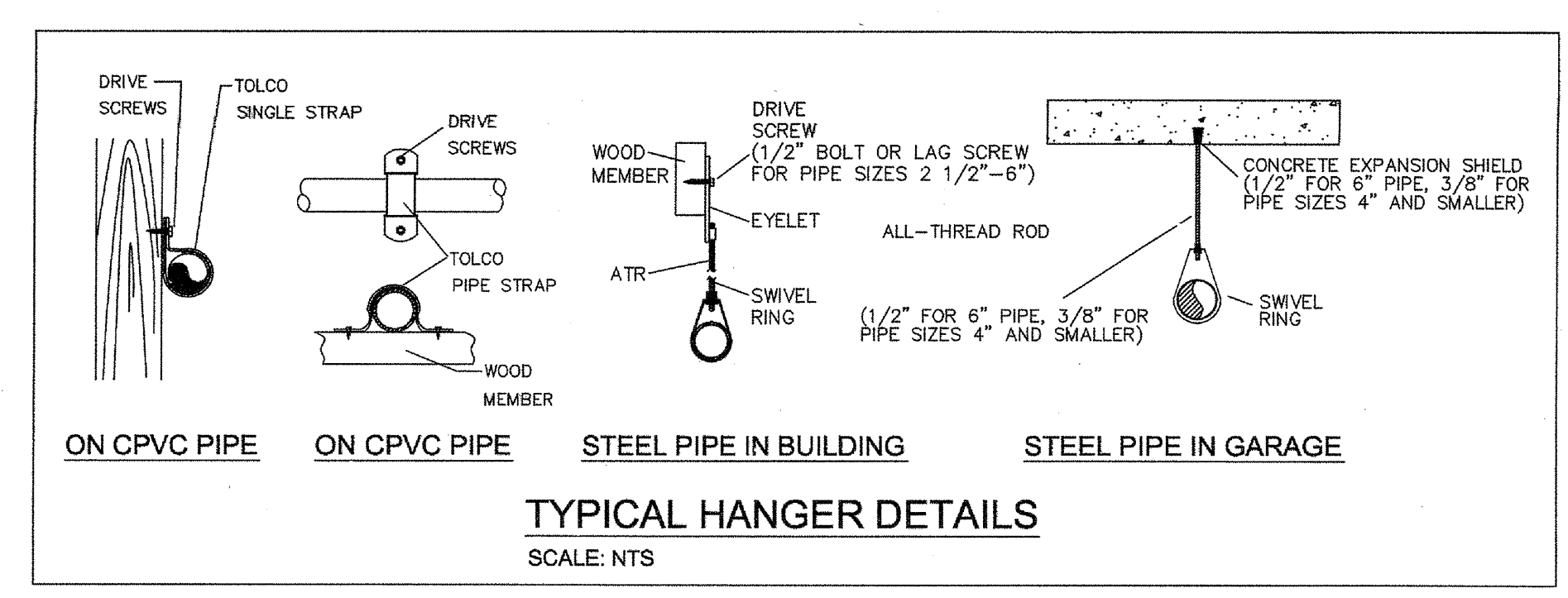
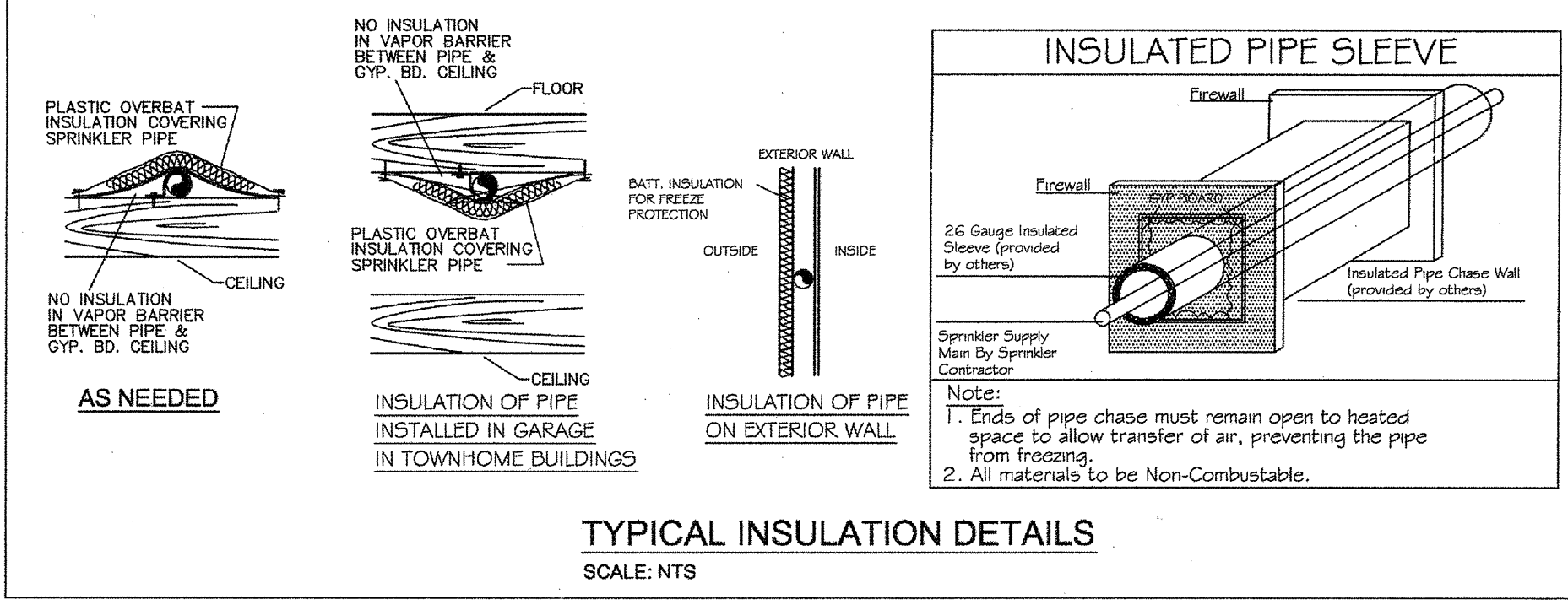
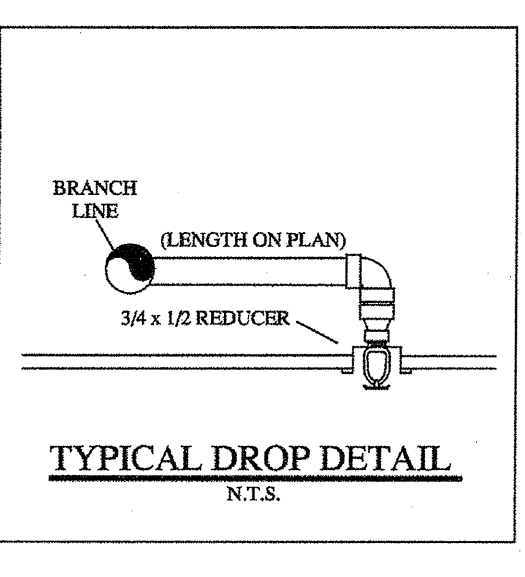
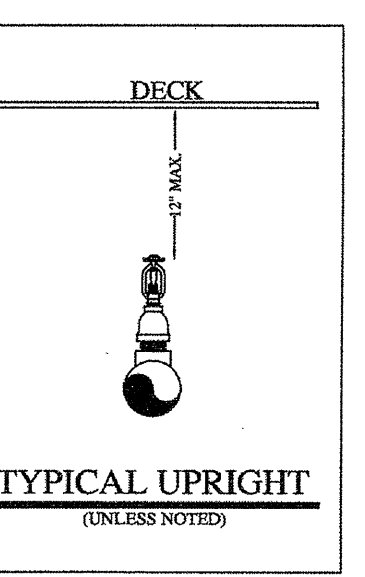
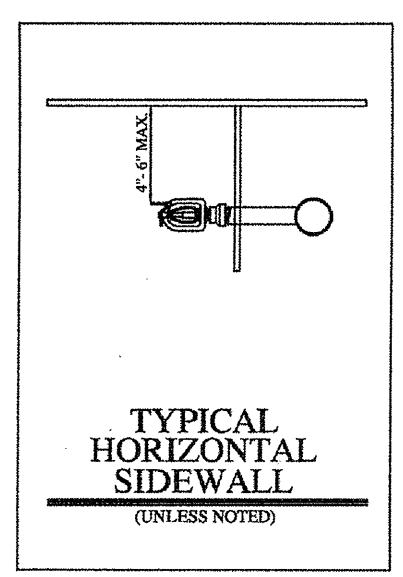
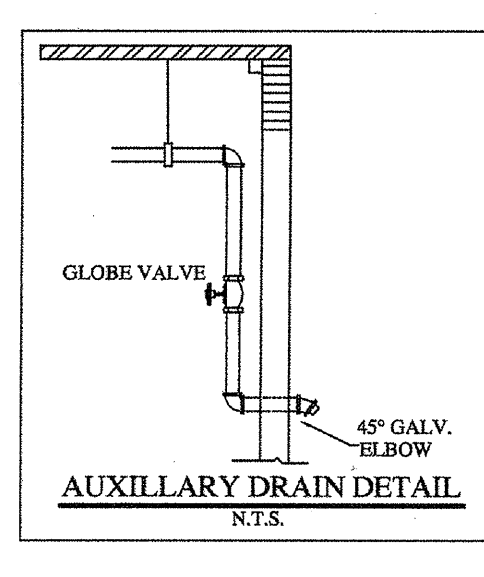
REVISIONS:

NO.	DATE	BY	DESCRIPTION
1	04-01-12	MA	ISSUED FOR PERMIT
2	04-01-12	MA	ISSUED FOR PERMIT
3	04-01-12	MA	ISSUED FOR PERMIT
4	04-01-12	MA	ISSUED FOR PERMIT
5	04-01-12	MA	ISSUED FOR PERMIT

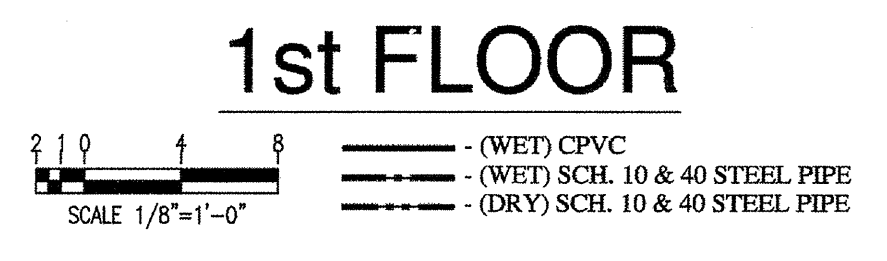


SLEEVE SCHEDULE

PIPE SIZE	SLEEVE DIA.
1"	2"
1-1/4"	2"
1-1/2"	2-1/2"
2"	3"
2-1/2"	4"
3"	5"
4"	6"
6"	8"
8"	10"



INSTALLATION PLAN
 Scale 1/8" = 1'-0"



HANGER SPACING CHART

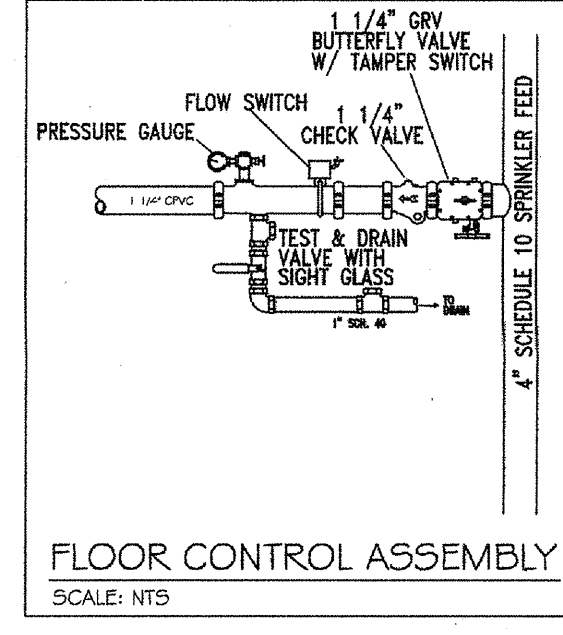
TABLE 9.2.2.1 MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN.)

PIPE SIZE (DN)	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
STEEL PIPE	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED	N/A	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A
COPPER	8-0	8-0	10-0	10-0	12-0	12-0	12-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A

FIGURE A.9.2.3.4 DISTANCE FROM SPRINKLER TO HANGER

TABLE 9.1.2.1 HANGER ROD SIZES

PIPE SIZE	DIAM. OF ROD	PIPE SIZE	DIAM. OF ROD
UP TO AND INCLUDING 4"	3/8"	6 AND 8"	1/2"



- LEGEND:**
- SYSTEM RISER
 - 4" X 2 1/2" X 2 1/2" F.D.C.
 - VERTICAL PIPE (UP OR DN)
 - HYDRAULIC NODE POINT
 - REMOTE AREA OUTLINE
 - 2 1/2" HOSE VALVE
 - BUTTERFLY VALVE
 - HANGERS (SIZE VARIES)
 - CEILING ELEVATION
 - C PIPE ELEVATION

GENERAL NOTES:

- Ranger Fire's work shall consist of all necessary labor and material to design and install new automatic fire sprinkler systems in the referenced (9) Apartment Buildings and attached Parking Garage.
- Ranger Fire excludes all electrical and ceiling work.
- All design and installation shall conform to NFPA 13, 13R, 14, 20, & the City of Addison requirements.
- All material to be UL/FM approved for fire services.
- All new plastic piping shall be Schedule 40 CPVC with CPVC plastic fittings (u.o.n.). All steel piping shall be Black Sch. 10 with grooved fittings for the mains and Black Sch. 40 with threaded fittings for the branchlines.
- Owner or tenant is responsible for maintaining adequate heat to prevent the system from freezing (Min. 40 degrees F.).
- Sprinkler equipment room and equipment components shall be properly identified.
- Install signage on sprinkler equipment room door stating "Sprinkler Valve Room" in at least 4 inches in height.
- All hangers shall be in accordance with NFPA 13 requirements.
- All systems shall be tested at 200 psi for 2 hours and witnessed by a representative of the Addison Fire Department. Any leaks shall be repaired.
- The system has been hydraulically calculated per NFPA 13, 13R, 14, & 20 requirements.
- Install Black steel piping in Parking Garage.

RESIDENTIAL BUILDING INFO

OCCUPANCY: R-2 / A-3
 GROSS BLDG AREA: 424,139 S.F.
 TYPE OF CONSTRUCTION: V-A

GARAGE BUILDING INFO

OCCUPANCY: S-2
 GROSS BLDG AREA: 181,834 S.F.
 TYPE OF CONSTRUCTION: 2-B

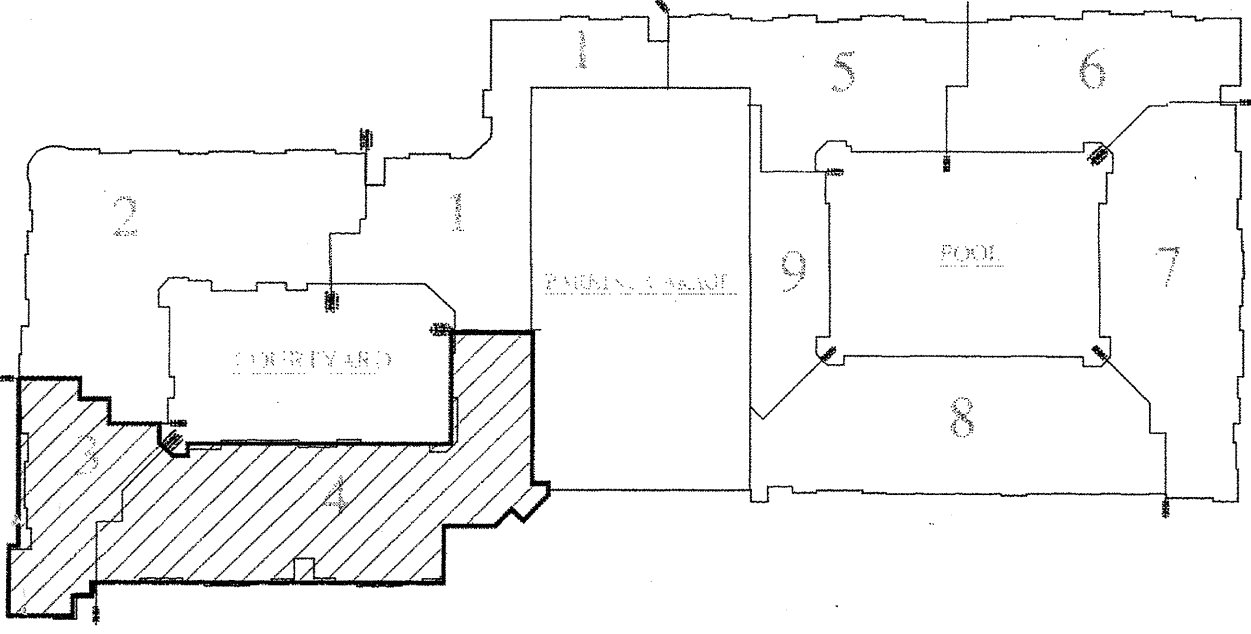
I have reviewed these plans and certify that they comply with the adopted NFPA standards.

Ranger Fire, Inc.
 1000 South Main Street
 Suite 150
 Grapevine, Texas 76051
 Phone: 817-410-9070
 SCR-0590

RME SIGNATURE: *Matthew B. Claxton*
 PRINTED RME NAME: Matthew B. Claxton
 RME NUMBER: 0778 DATE: 7-3-13

AS-BUILT SUBMITTAL OTHER

AS-BUILT



KEY MAP
 N.T.S.