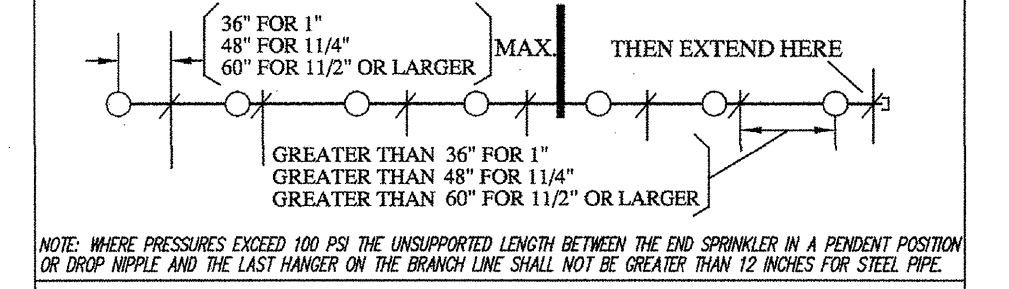


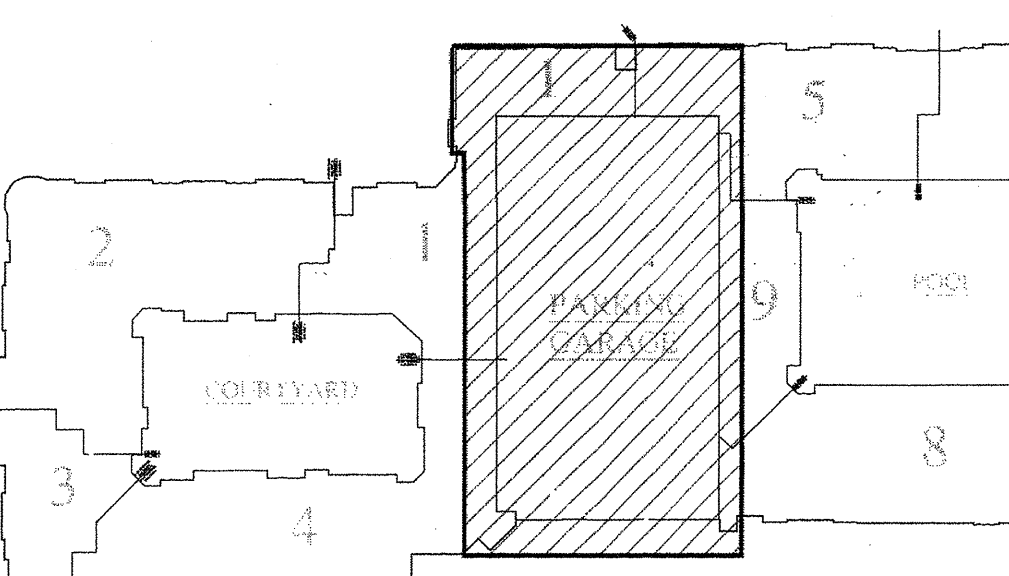
HANGER SPACING CHART
TABLE 9.2.2.1 MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN.)

PIPE SIZE (IN)	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
BRIDGEMAN	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	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A

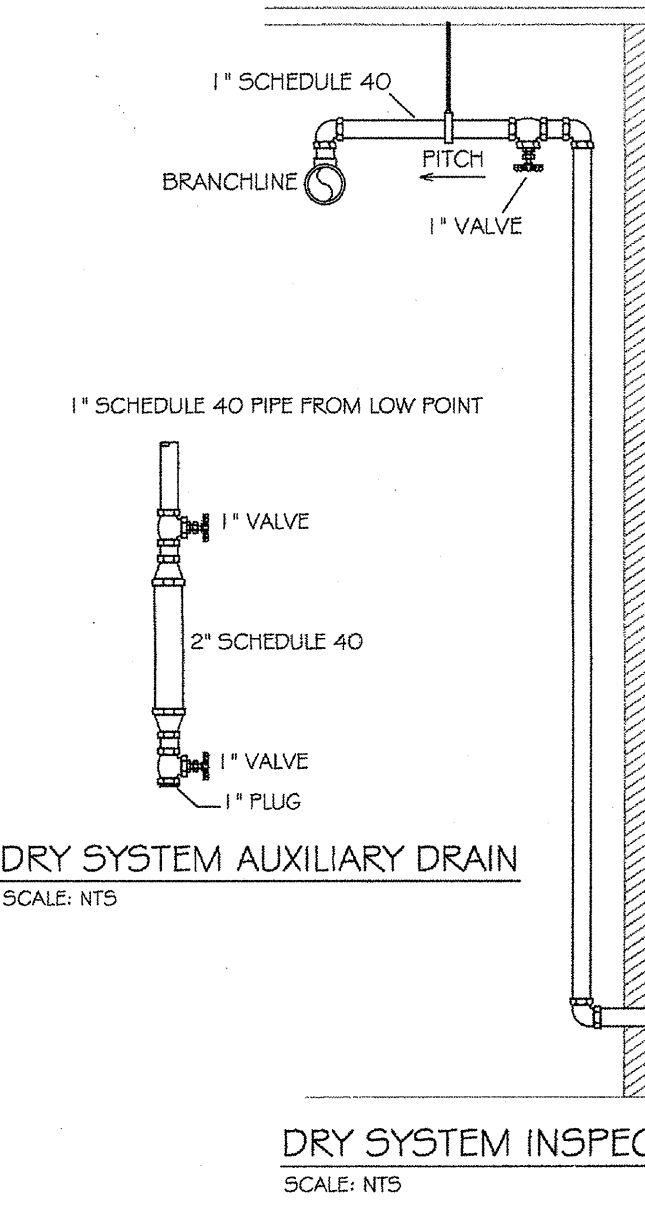
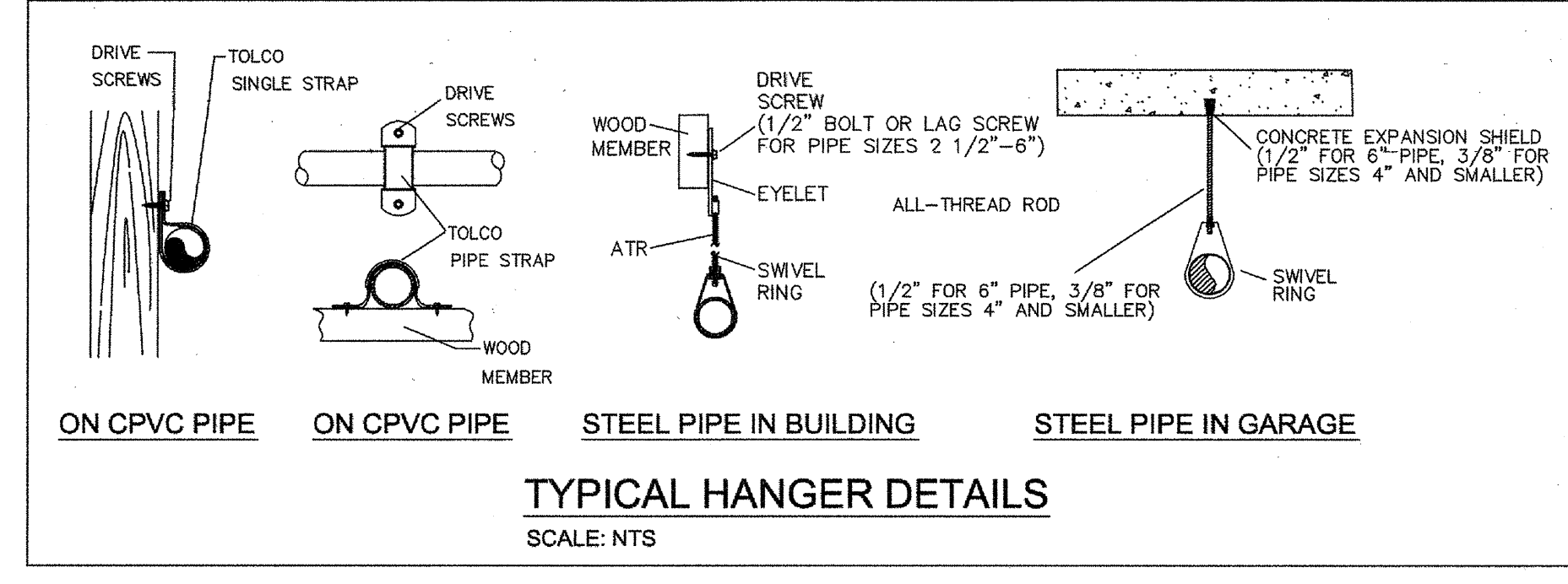
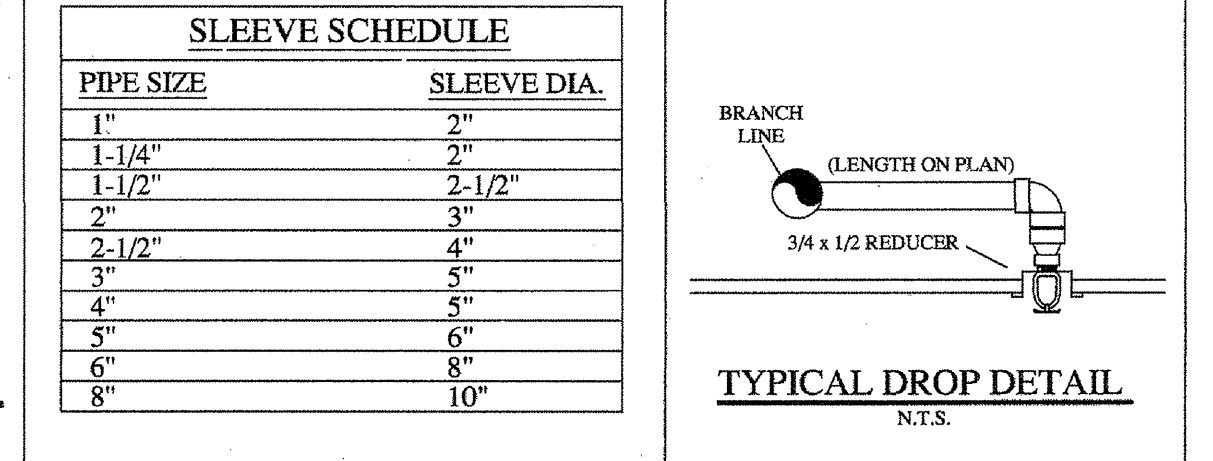
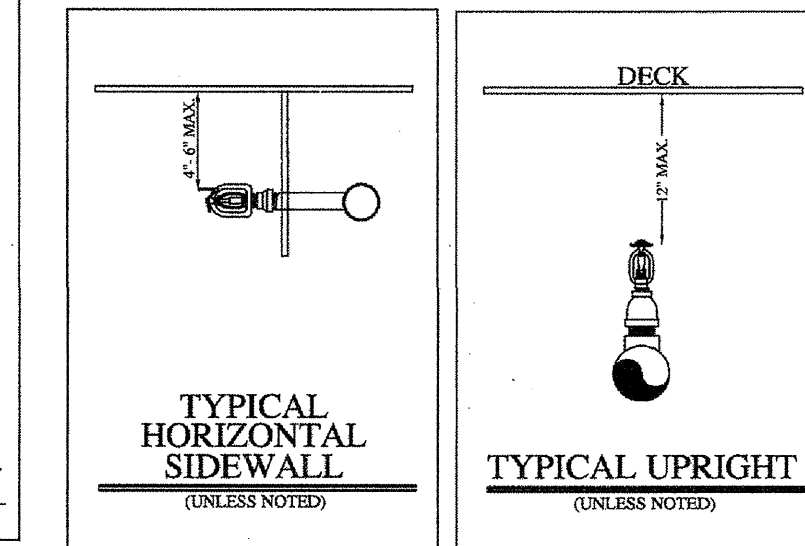
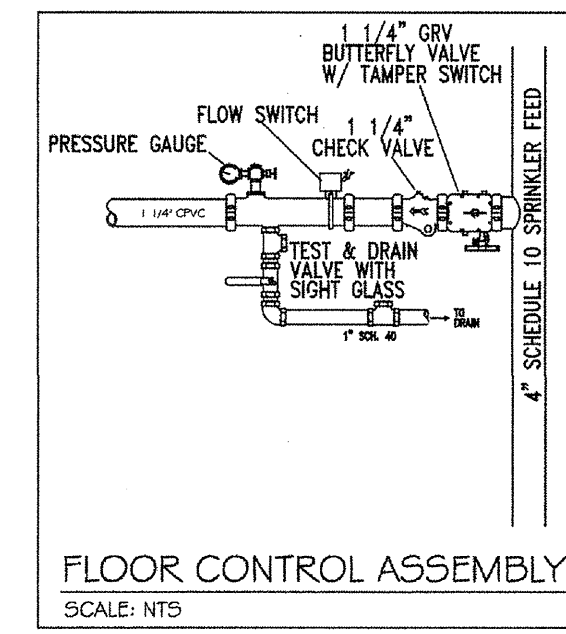


NOTE: WHERE PRESSURES EXCEED 200 PSI FOR THE UNINSULATED LENGTH BETWEEN THE END SPRINKLER IN A PENDENT POSITION OR DROP PIPE AND THE LAST HANGER ON THE BRANCH LINE SHALL NOT BE GREATER THAN 12 INCHES FOR STEEL PIPE.

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



KEY MAP
N.T.S.



- 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
 - 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, and 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: [Signature]
PRINTED RME NAME: Matthew B. Claxton
RME NUMBER: 0778 DATE: 7-31-13

AS-BUILT SUBMITTAL OTHER

AS-BUILT

RANGER FIRE, INC.
920 SOUTH MAIN STREET
SUITE 200
GRAPEVINE, TEXAS 76051
PHONE: 817-410-9070
TEXAS LICENSE: 0590

AS-BUILT SUBMITTAL OTHER

NO.	DATE	BY	REVISIONS

GENERAL CONTRACTOR: TEMBERY PARTNERS LTD.
1000 N. LOOP 410, STE 700
SAN ANTONIO, TX 78215
210-824-6044

OWNER: TEMBERY PARTNERS LTD.
1000 N. LOOP 410, STE 700
SAN ANTONIO, TX 78215
210-824-6044

DESIGNER: RANGER FIRE, INC.
1000 S. MAIN ST., SUITE 150
GRAPEVINE, TX 76051
817-410-9070

CONTRACT NAME: KELLER SPRINGS LOFTS
4800 KELLER SPRINGS PKWY
ADDISON, TEXAS 75001

CONTRACT #: 11-05
DESCRIPTION: 3RD FLOOR

SCALE: 1/8" = 1'-0"
DRAWN BY: C. ALEXANDER
CHECKED BY: [Signature]
DATE: 04-01-12
DATE: 07-31-13