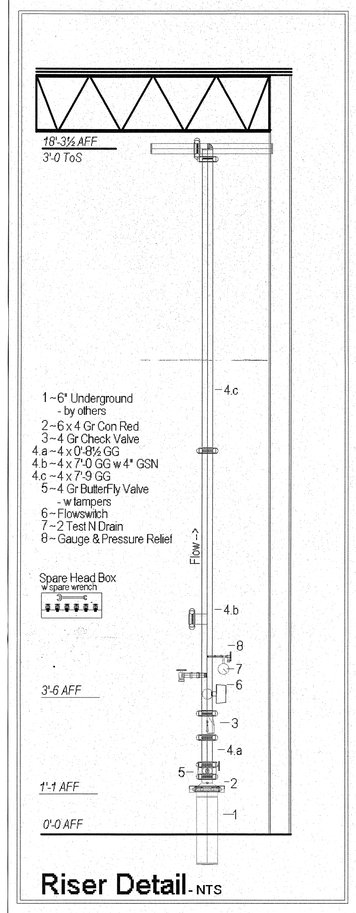
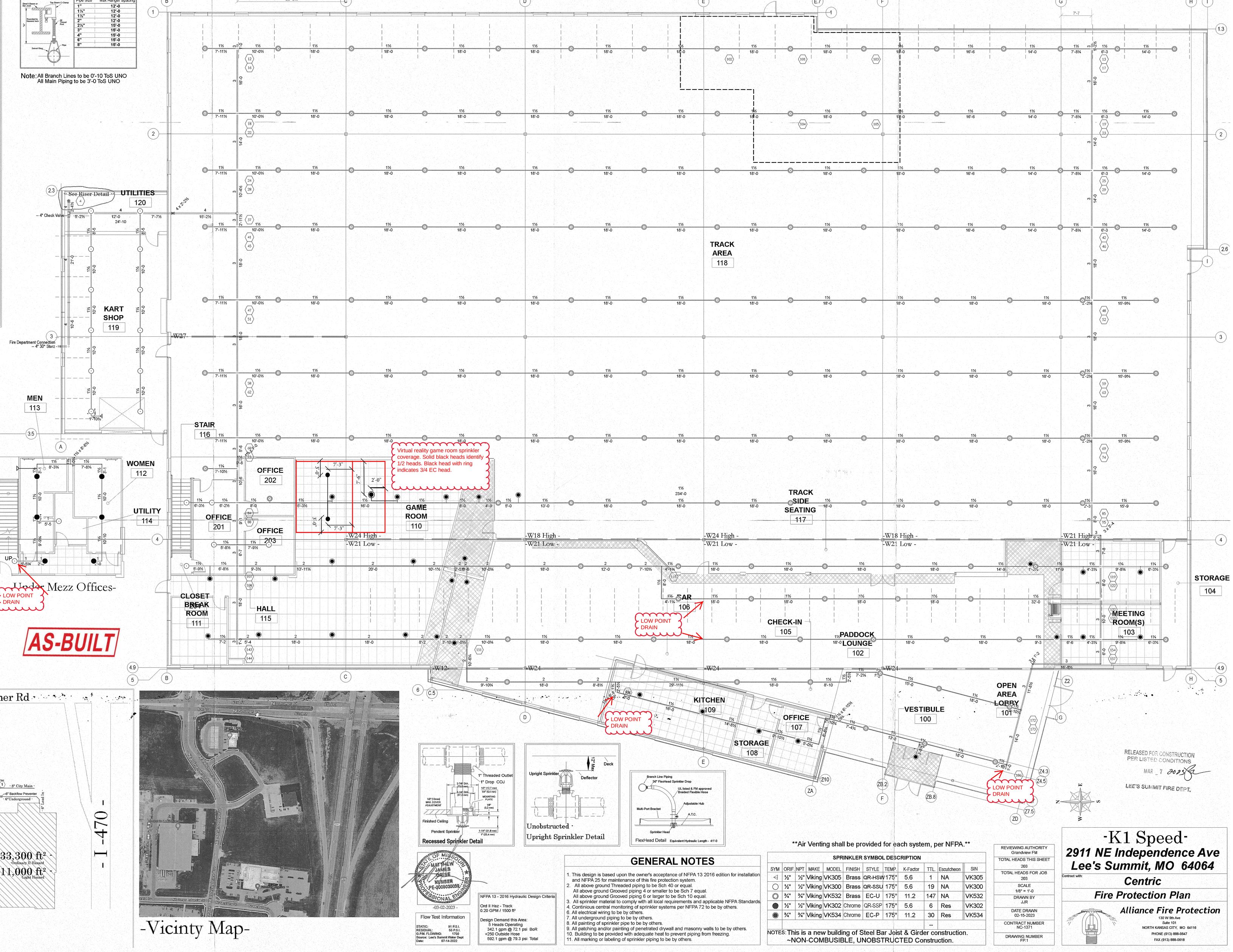


Riser Detail - NTS

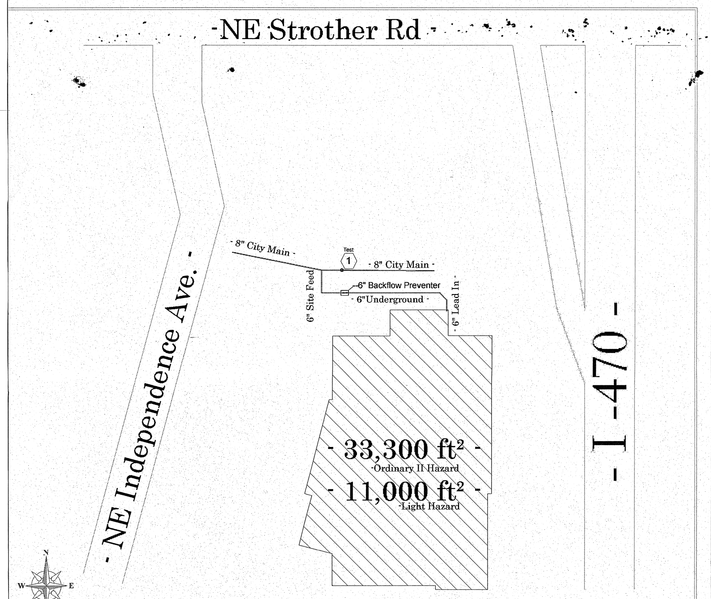
Hanger Schedule for Steel Pipe	
Pipe Size	Max Hanger Spacing
1"	12'-0
1¼"	12'-0
1½"	12'-0
2"	12'-0
2½"	15'-0
3"	15'-0
4"	15'-0
6"	15'-0
8"	15'-0

Hanger No. 01S
Top Beam C-Clamp

Note: All Branch Lines to be 0'-10 ToS UNO
All Main Piping to be 3'-0 ToS UNO



-Side Sectional View-



Enlarged Key Plan
N.T.S.

-Vicinty Map-

Recessed Sprinkler Detail

Unobstructed Upright Sprinkler Detail

FlexHead Detail Equivalent Hydraulic Length - 41'-0

STATE OF MISSOURI
MATTHEW JAMES GRUSE
NUMBER PE-2008030059
PROFESSIONAL ENGINEER
-03-02-2023-

NFPA 13 - 2016 Hydraulic Design Criteria
Ord II Haz - Track
0.20 GPM / 1500 ft²
Design Demand this Area:
5 Heads Operating
342.1 gpm @ 72.1 psi BoR
+250 Outside Hose
592.1 gpm @ 79.3 psi Total

Flow Test Information
STATIC: 91 P.S.I.
RESIDUAL: 55 P.S.I.
@ P.M. FLOWING: 1750
Source: Lee's Summit Water Dept
Date: 07-14-2022

GENERAL NOTES

1. This design is based upon the owner's acceptance of NFPA 13 2016 edition for installation and NFPA 25 for maintenance of this fire protection system.
2. All above ground Threaded piping to be Sch 40 or equal.
   All above ground Grooved piping 4 or smaller to be Sch 7 equal.
   All above ground Grooved piping 6 or larger to be Sch 10 equal.
3. All sprinkler material to comply with all local requirements and applicable NFPA Standards.
4. Continious central monitoring of sprinkler systems per NFPA 72 to be by others.
5. All electrical wiring to be by others.
6. All underground piping to be by others.
7. All painting of sprinkler pipe to be by others.
8. All patching and/or painting of penetrated drywall and masonry walls to be by others.
9. Building to be provided with adequate heat to prevent piping from freezing.
10. All marking or labeling of sprinkler piping to be by others.

Air Venting shall be provided for each system, per NFPA.

SPRINKLER SYMBOL DESCRIPTION

SYM	ORIF	NPT	MAKE	MODEL	FINISH	STYLE	TEMP.	K-Factor	TTL	Escutcheon	SIN
◁	½"	½"	Viking	VK305	Brass	QR-HSW	175°	5.6	1	NA	VK305
○	½"	½"	Viking	VK300	Brass	QR-SSU	175°	5.6	19	NA	VK300
◎	¾"	¾"	Viking	VK532	Brass	EC-U	175°	11.2	147	NA	VK532
●	½"	½"	Viking	VK302	Chrome	QR-SSP	175°	5.6	6	Res	VK302
◉	¾"	¾"	Viking	VK534	Chrome	EC-P	175°	11.2	30	Res	VK534
									--		

NOTES: This is a new building of Steel Bar Joist & Girder construction.
~NON-COMBUSIBLE, UNOBSTRUCTED Construction.

REVIEWING AUTHORITY	Grandview FM
TOTAL HEADS THIS SHEET	203
TOTAL HEADS FOR JOB	203
SCALE	1/8" = 1'-0
DRAWN BY	JJR
DATE DRAWN	02-15-2023
CONTRACT NUMBER	NC-1371
DRAWING NUMBER	FP.1

RELEASED FOR CONSTRUCTION
PER LISTED CONDITIONS
MAR _ 7 2023
LEE'S SUMMIT FIRE DEPT.

-K1 Speed-

2911 NE Independence Ave
Lee's Summit, MO 64064

Contract with:
Centric

Fire Protection Plan

Alliance Fire Protection
130 W 9th Ave
Suite 101
NORTH KANSAS CITY, MO 64116
PHONE (913) 888-0047
FAX (913) 888-0818