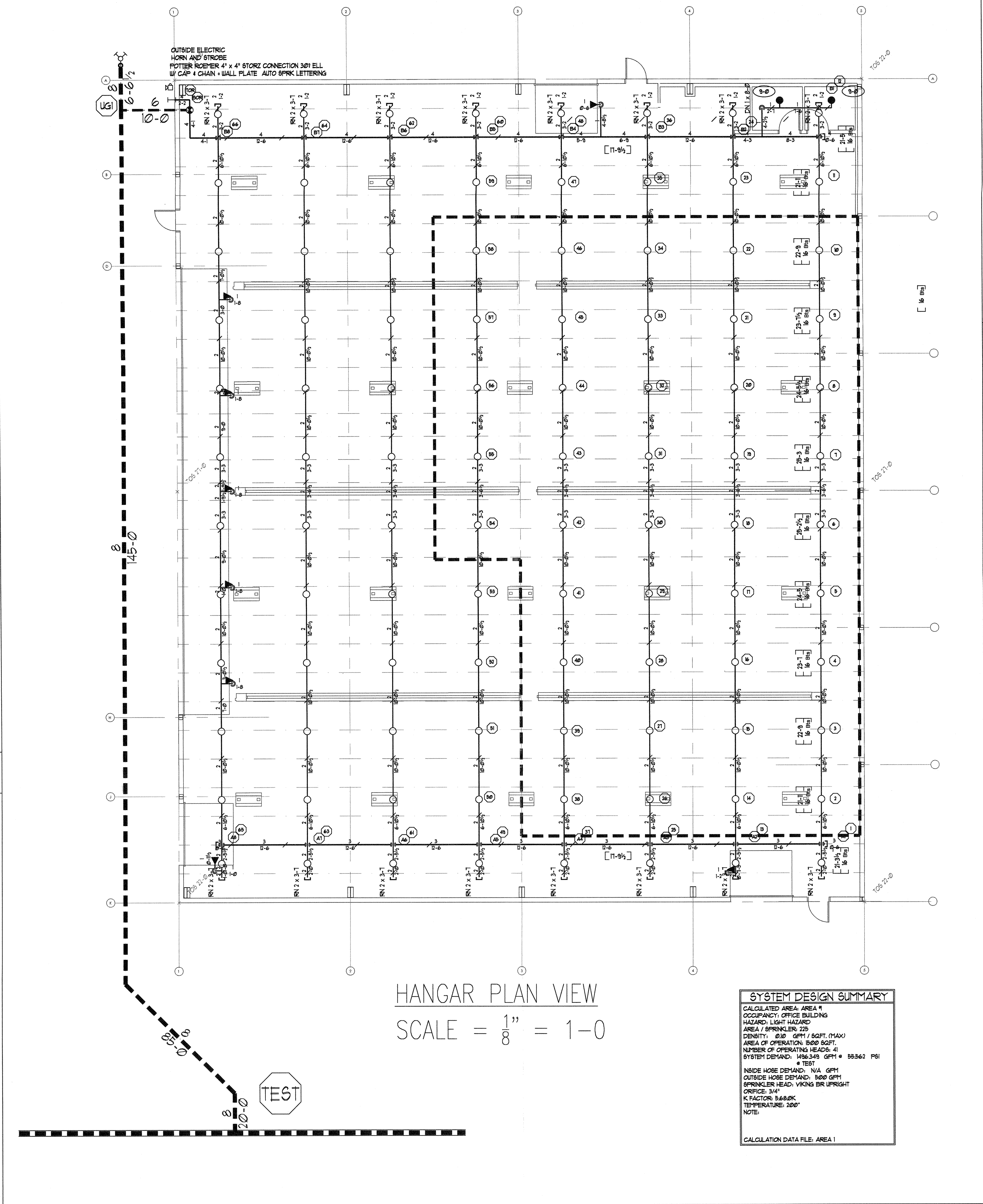
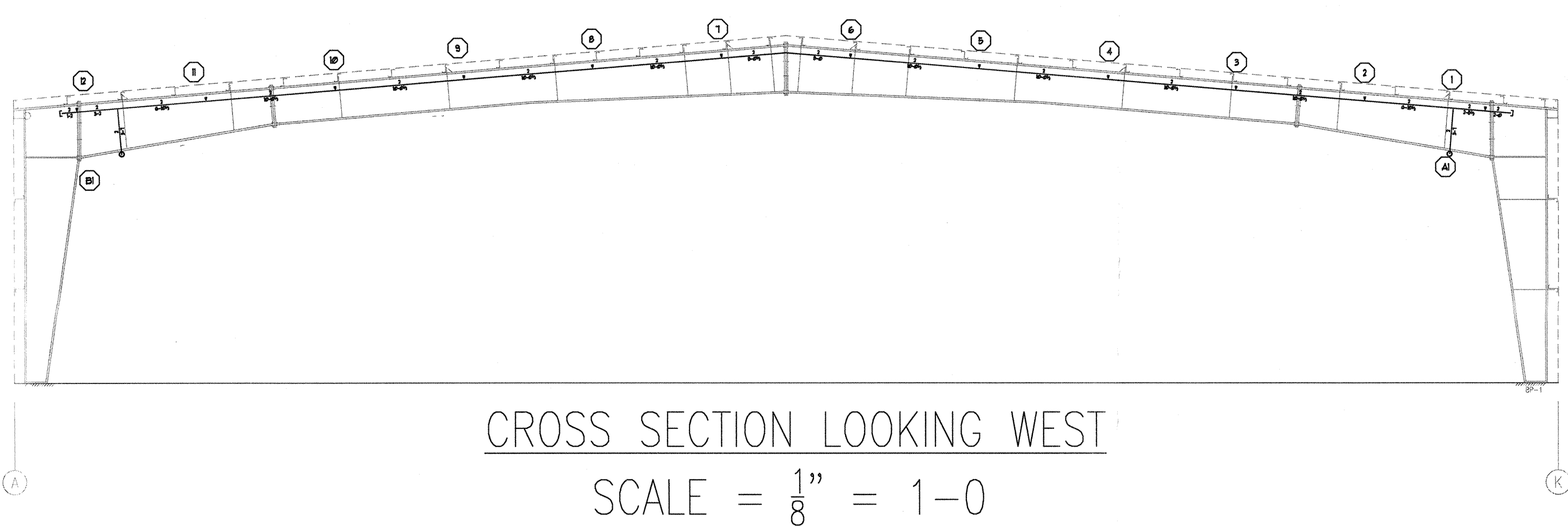


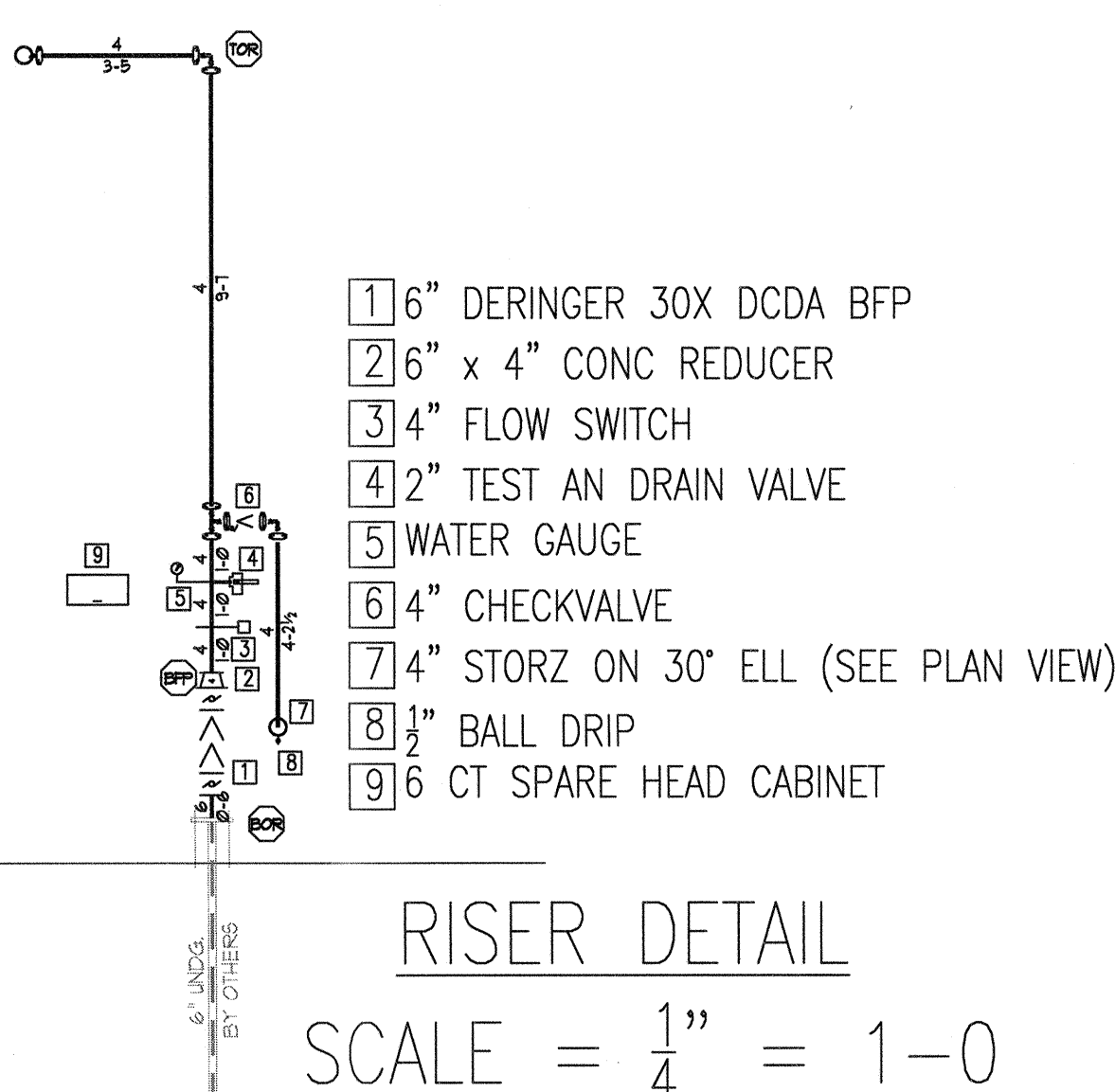


HANGAR PLAN VIEW
SCALE = $\frac{1}{8}'' = 1'-0''$

SYSTEM DESIGN SUMMARY	
CALCULATED AREA: AREA 1	
OCCUPANCY: OFFICE BUILDING	
HAZARD: LIGHT HAZARD	
AREA / SPRINKLER: 275	
DENSITY: 0.10 GPM / SQFT (MAX)	
AREA OF OPERATION: 1500 SQFT	
NUMBER OF OPERATING HEADS: 4	
SYSTEM DEMAND: 1456.348 GPM @ 88.362 PSI	
TEST	
INSIDE HOSE DEMAND: N/A GPM	
OUTSIDE HOSE DEMAND: 1500 GPM	
SPRINKLER HEAD: VIKING OR UPRIGHT	
OFFICE: 3/4"	
K-FACTOR: 5.68/OK	
TEMPERATURE: 200°	
NOTE:	
CALCULATION DATA FILE: AREA 1	



CROSS SECTION LOOKING WEST
SCALE = $\frac{1}{8}'' = 1'-0''$



- 1 6" DERINGER 30X DCDA BFP
- 2 6" x 4" CONC REDUCER
- 3 4" FLOW SWITCH
- 4 2" TEST AN DRAIN VALVE
- 5 WATER GAUGE
- 6 4" CHECKVALVE
- 7 4" STORZ ON 30" ELL (SEE PLAN VIEW)
- 8 1" BALL DRIP
- 9 6 CT SPARE HEAD CABINET

RISER DETAIL
SCALE = $\frac{1}{4}'' = 1'-0''$

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Lee's Summit Fire Department
Lee's Summit, Missouri

08/05/2025

GENERAL NOTES

- THE SYSTEM DESIGN CRITERIA COMPLIES WITH THE REQUIREMENTS OF NFPA 13 2016 EDITION.
- ALL PIPING SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 13 2016 EDITION.
- ALL FITTINGS SHALL CONFORM WITH THE REQUIREMENTS OF NFPA 13 2016 EDITION.
- ALL HANGERS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13 2016 EDITION.
- FITTINGS FOR 1" THRU 2" SHALL BE CAST IRON THREADED. FITTINGS FOR 2 1/2" THRU 4" PIPING ARE TO BE GROOVED OR WELDED OUTLETS.
- LENGTHS OF PIPING 1" THRU 2" ARE SHOWN AS THREAD TO THREAD UNLESS NOTED AS: G- GROOVE OR C- CENTER. 2 1/2" THRU 4" PIPE LENGTHS ARE SHOWN AS CENTER TO CENTER UNLESS NOTED AS: G - GROOVE, W - WELD, F - FACE OR FLANGE OR T - THREAD.
- ALL SECTIONS OF TRAPPED PIPING SHALL HAVE AUXILIARY DRAINS WHERE REQUIRED.
- THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE HEAT TO PREVENT THE PIPING FROM FREEZING.
- ALL SWITCHBOARDS, PANEL BOARDS, DISTRIBUTION BOARDS AND MOTOR CONTROL CENTERS SHALL BE PROTECTED FROM DAMAGE BY OTHERS.

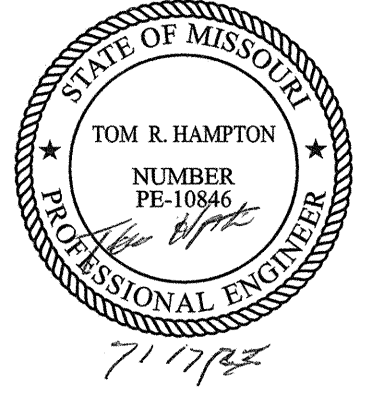
HANGER SPACING TABLE

HANGER SPACING FOR STEEL PIPE (SCH 40)

PIPE SIZE	HANGER SPACING
1", 1 1/4"	12'
1 1/2" & LARGER	15'

HANGER SPACING FOR STEEL PIPE (THINWALL)

PIPE SIZE	HANGER SPACING
1" - 3"	12'
4" & LARGER	15'



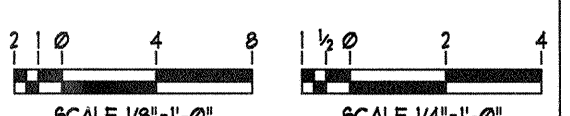
SPRINKLER PIPING PLAN

LS MANAGEMENT HANGAR
2751 NE DOUGLAS ROAD
LEE'S SUMMIT, MO 64064

ADVANTAGE
FIRE PROTECTION SYSTEMS, INC.
"We are your Advantage"

404B N.W. 11th Street
Blue Springs, MO 64015
Tel. (816) 224-3400

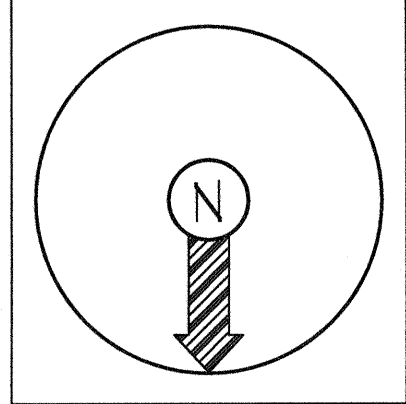
REVIEWING AUTHORITY	
LEES SUMMIT FIRE DEPT	
HEADS THIS SHEET	
98	
TOTAL HEADS FOR JOB	
98	
SCALE	
1/8" = 1'-0"	
DRAWN BY	
MATT KNOX	
REVISION DATE	
DATE DRAWN	
7/13/25	
CONTRACT NUMBER	
J-2492	
DRAWING NUMBER	
1 OF 1	



NOTICE OF NONRESPONSIBILITY

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ADVANTAGE FIRE PROTECTION SYSTEMS, INC.



CONSTRUCTION:
INSULATED METAL DECK ROOF ON STEEL PURLINS AND BEAMS • ELEV. AS NOTED ON PLAN

PIPE TYPE:
SCREWED 2" AND SMALLER TO BE SCH 40 PIPE WELDED 2" AND LARGER TO BE SCH 10 PIPE

DESIGN CRITERIA:
PER NFPA 409 GROUP 11 DEFUELED AIRCRAFT HANGAR 175000 SQFT
MAX 150 SQFT/HEAD SPACING • 1500 GPM FOR HOSE ALLOWANCE

FLOW TEST DATA:	
STATIC	174 PSI
RESIDUAL	63 PSI
W	1300 GPM
	2/10/25
BY LEE'S SUMMIT WATER	

Symbols	
○	Hydraulic Reference Points
⊖	Elev. Below Top of Steel
⊕	Elev. Above Finished Floor
+ rtoe 0'-0"	Elev. of Top of Steel
⊕	Ceiling Height
—	Denotes Hanger Location
o	Rise up or down
ALL PIPE CUTS ARE CENTER TO CENTER	

Sprinkler Head Summary	
Symbol	Count
○	96
●	2
◀	6

Count	NPT	Orif.	Make	Model	Finish	Style	Temp.	K-	SN
96	3/4"	3/4"	VIKING	OR	BRASS	OR UPRIGHT	2861	8.0K	VK350
2	1/2"	1/2"	VIKING	MICROFAST	CHROME	OR CHR PENDANT w/ CHR REG BGC	200°	5.6K	VK320
6	3/4"	3/4"	VIKING	OR	BRASS	OR BR HOR SIDEWALL (BELOW CH DOORS) 200°	8.0K	VK360	

DATE	REVISION