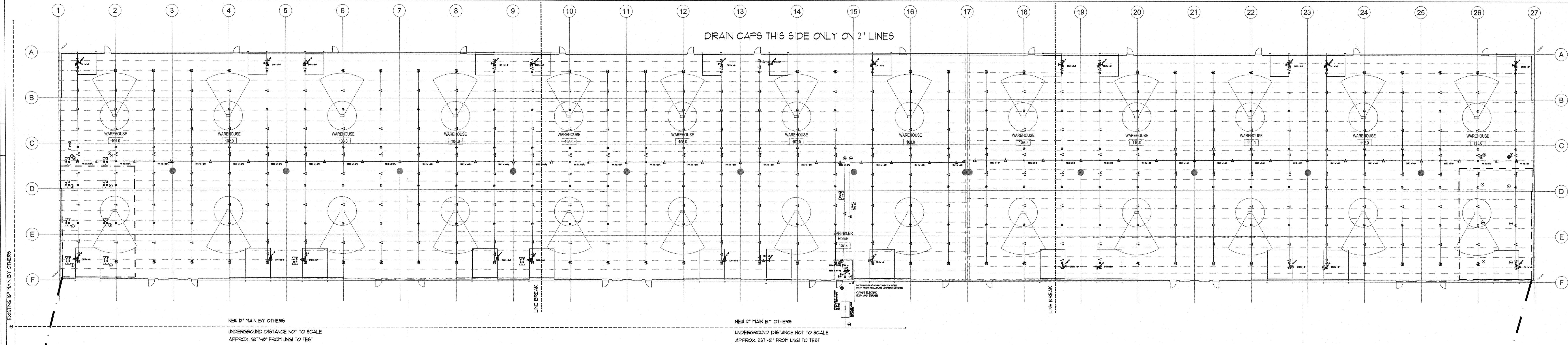




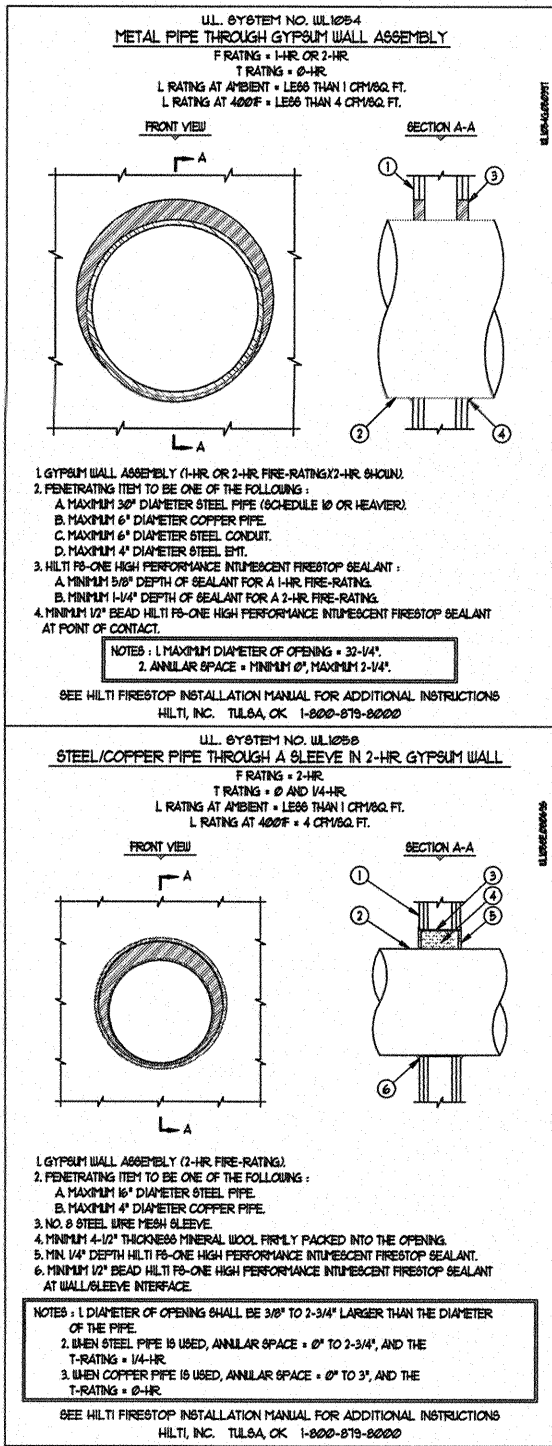
SYSTEM DESIGN SUMMARY
CALCULATED AREA: AREA 4
OCCUPANCY: WAREHOUSE
HAZARD: CH
AREA / SPRINKLER: 400
DENSITY: 0.20 GPM / SQFT (MAX)
AREA OF OPERATION: 5000 SQFT
NUMBER OF OPERATING HEADS: 6
SYSTEM DEMAND: 145.164 GPM @ 20.04 PSI
TEST
INSIDE HOSE DEMAND: N/A GPM
OUTSIDE HOSE DEMAND: 250 GPM
SPRINKLER HEAD: RELIABLE GFR VELO ECCH R6853
ORifice: 3/4"
K FACTOR: 14
TEMPERATURE: 22"
NOTE:
CALCULATION DATA FILE:

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NOTE:
CALCULATION DATA FILE:

N.T.S.-FOR REFERENCE ONLY

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.



POTTER ROEMER 4" x 5" STORZ CONNECTION 30° ELL
W/ CAP & CHAIN + WALL PLATE AUTO SPRK LETTERING
4" DRAIN 90° W/BALL DRIP
1/2 CT. HEAD BOX
WATER GAUGE X 2
2" TEST & DRAIN X 2
6" FLOW SWITCH X 2
6" BUTTERFLY VALVE X 2
4" CHECK VALVE X 1
6" CHECK VALVE X 1
6" GR FLANGE ADAPTER

RISER DETAIL: 1/4" = 1'-0"

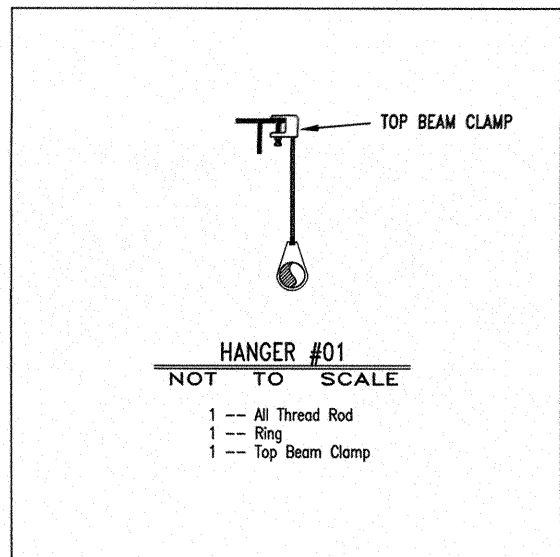
HANGER SPACING TABLE

HANGER SPACING FOR STEEL PIPE (SCH. 40)

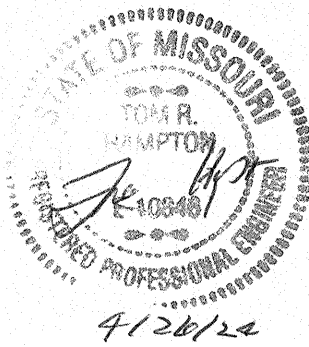
PIPE SIZE	HANGER SPACING
1", 1 1/4"	12'
1 1/2" & LARGER	15'

HANGER SPACING FOR STEEL PIPE (THINWALL)

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

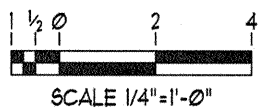


RELEASED FOR CONSTRUCTION
As Noted on Plan Review
Lee's Summit Fire Department
Lee's Summit, Missouri
05/03/2024



FIRE SPRINKLER SITE/RISER PLAN

LAKEWOOD BUSINESS CENTER
LOT 1
NE MAGUIRE BLVD.
LEE'S SUMMIT, MO 64064



NOTICE OF NONRESPONSIBILITY

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ADVANTAGE FIRE PROTECTION SYSTEMS, INC.

ADVANTAGE

FIRE PROTECTION SYSTEMS INC.

"We are your Advantage"

4048 N.W. 11th Street
Blue Springs, MO. 64015
Tel. (816) 224-3400

REVIEWING AUTHORITY LS FIRE DEPT. HEADS THIS SHEET 260 TOTAL HEADS FOR JOB 260 SCALE 1/4" = 1'-0" DRAWN BY DANIAL LOGSTON REVISION DATE 4-4-2024 DATE DRAWN 1-16-2024 CONTRACT NUMBER J-2351 DRAWING NUMBER 1 OF 4

FLOW TEST DATA:
STATIC: 105 PSI
RESIDUAL: 76 PSI
W/ 2300 GPM
CONDUCTED BY LS WATER
ON 8-10-2023 10:20 AM
HYDRANTS 014-011 AND 014-023

CONSTRUCTION:
INSULATED METAL DECK ROOF ON STEEL BEAMS 4 BAR JOIST 4' ELEV. AS NOTED ON PLAN
PIPE TYPE:
SCHEDULE 40 AND SMALLER TO BE SCH. 40 PIPE WELDED 2" AND LARGER TO BE SCH. 40 PIPE
DESIGN CRITERIA:
PER NFPA 13, ORDINARY HAZARD OR II, 0.20 GPM/SQFT FOR 5000 SQFT, OPERATING
MAX 100 SQFT/HEAD SPACING + 250 GPM FOR HOSE ALLOWANCE

Symbol	Description
○	Hydraulic Reference Points
⊖	Elev. Below Top of Steel
⊕	Elev. Above Finished Floor
+ r/c	Elev. of Top of Steel
⊕	Ceiling Height
○	Denotes Hanger Location
○	Run up or down
ALL PIPE CUTS ARE CENTER TO CENTER	

Symbol	Count	NPT	Orif.	Make	Model	Finish	Style	Temp.	K=	SN
⊕	260	3/4"	3/4"	RELIABLE	BR	BRASS	UPRIGHT GFR VELO ECCH	20°	14	R6853
⊖	26	1/2"	1/2"	Viking	GR	BRASS	HOR SIDEWALL	200°	5.6	YK305

DATE	REVISION
4-19-2024	SYSTEM NOW INCLUDES 8PM SAFETY