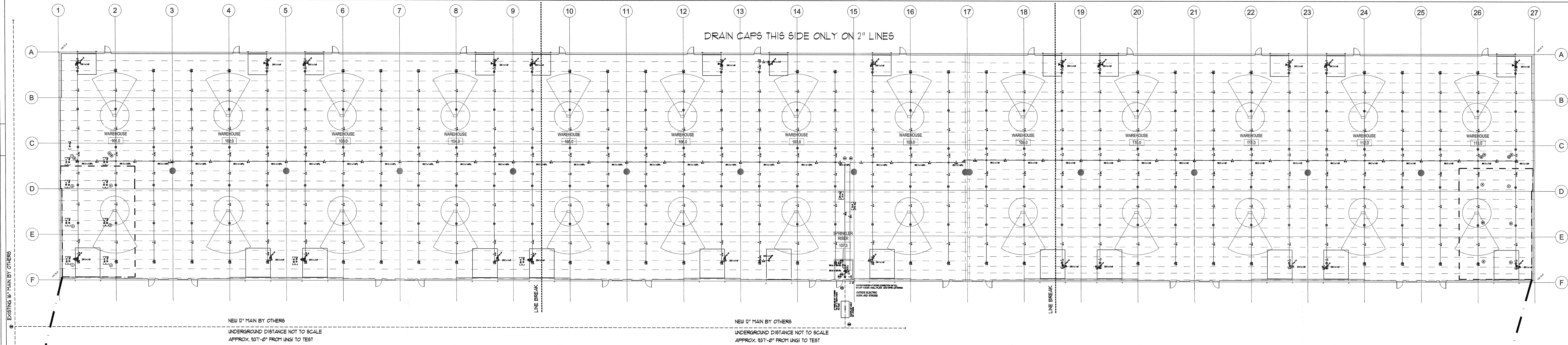




N.T.S.-FOR REFERENCE ONLY

SYSTEM DESIGN SUMMARY

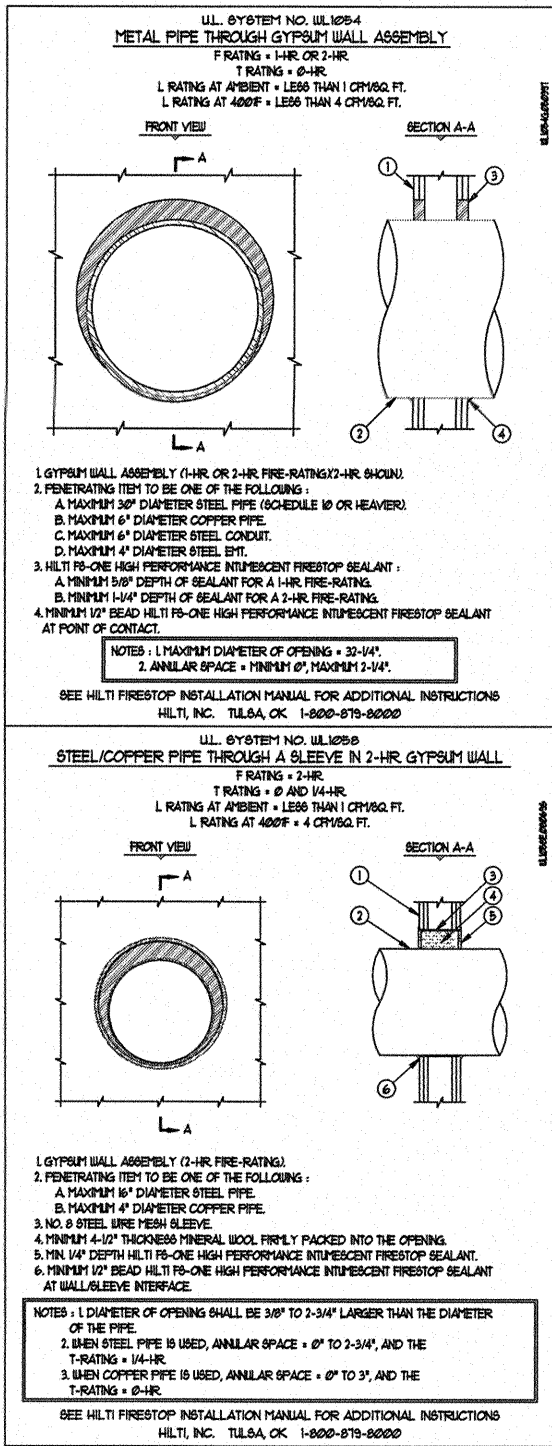
CALCULATED AREA: AREA 1
OCCUPANCY: WAREHOUSE
HAZARD: OH
AREA / SPRINKLER: 400
DENSITY: 0.20 GPM / SQFT (MAX)
AREA OF OPERATION: 5000 SQFT
NUMBER OF OPERATING HEADS: 6
SYSTEM DEMAND: 145.164 GPM @ 20.04 PSI
+ TEST
INSIDE HOSE DEMAND: N/A GPM
OUTSIDE HOSE DEMAND: 250 GPM
SPRINKLER HEAD: RELIABLE GFR VELO ECCH R6593
ORIFICE: 3/4"
K FACTOR: 14
TEMPERATURE: 22"
NOTE:
CALCULATION DATA FILE:

SYSTEM DESIGN SUMMARY

CALCULATED AREA: AREA 2
OCCUPANCY: WAREHOUSE
HAZARD: OH
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 R6593
ORIFICE: 3/4"
K FACTOR: 14
TEMPERATURE: 22"
NOTE:
CALCULATION DATA FILE:

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 WITH 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.



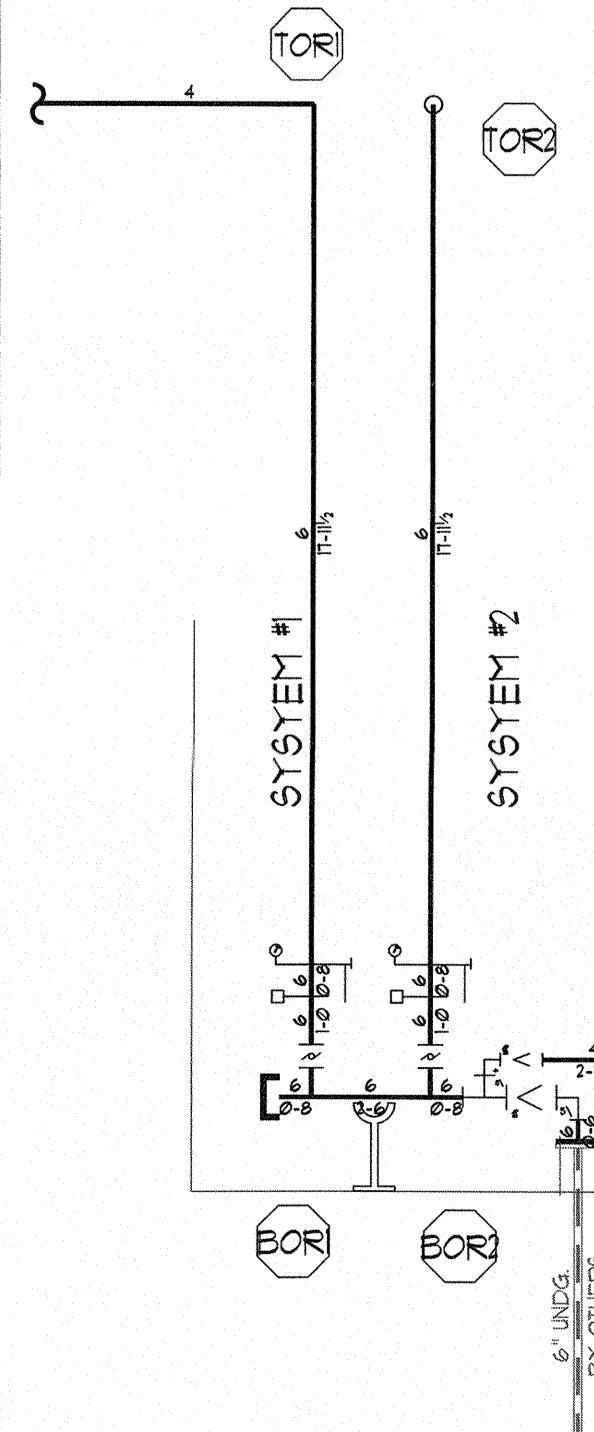
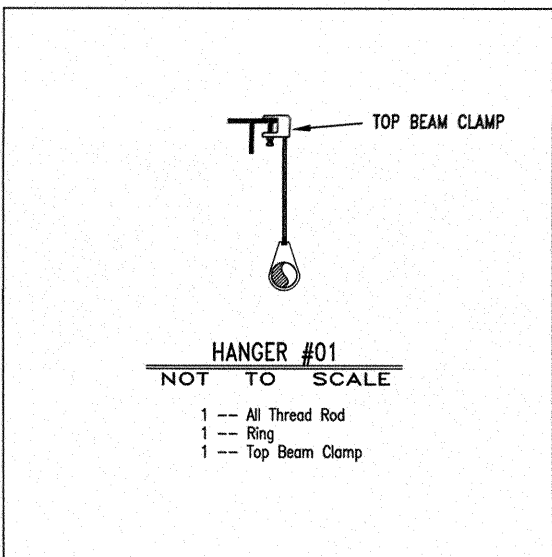
HANGER SPACING TABLE

HANGER SPACING FOR STEEL PIPE (SCH. 40)

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

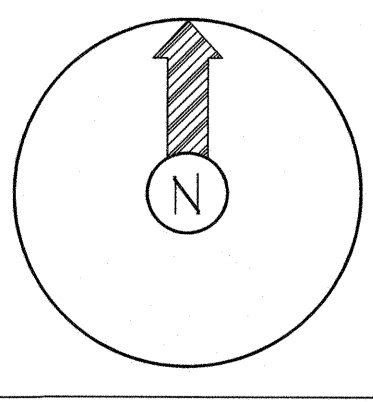
HANGER SPACING FOR STEEL PIPE (THINWALL)

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



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"



CONSTRUCTION:
INSULATED METAL DECK ROOF ON STEEL BEAMS 4 BAR JOIST 4' ELEV. AS NOTED ON PLAN
PIPE TYPE:
SCHEDULED 2" AND SMALLER TO BE SCH. 40 PIPE WELDED 2" AND LARGER TO BE SCH. 10 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.

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

DATE	REVISION
4-19-2024	SYSTEM NOW INCLUDES 80% SAFETY

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	

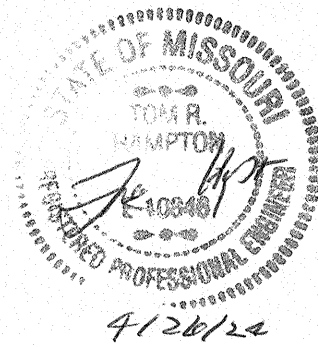
Symbol	Count	NPT	Orif.	Make	Model	Finish	Style	Temp.	K	SN
⊕	260	3/4"	3/4"	RELIABLE	BR	BRASS	UPRIGHT GFR VELO ECCH	22"	14	R6593
⊖	26	1/2"	1/2"	Viking	GR	BRASS	HOR SIDEWALL	200"	5.6	YK305

NOTICE OF NONRESPONSIBILITY
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FIRE SPRINKLER SITE/RISER PLAN

LAKEWOOD BUSINESS CENTER
LOT 1
NE MAGUIRE BLVD.
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 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
