

EXISTING 16" MAIN BY OTHERS

NEW 12" MAIN BY OTHERS

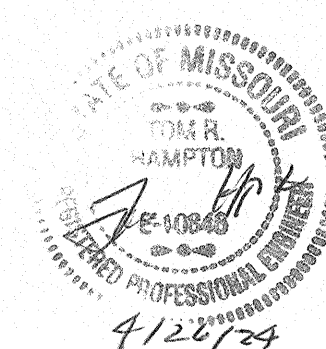
UNDERGROUND DISTANCE NOT TO SCALE
APPROX. 93'-0" FROM UNGI TO TEST

SYSTEM DESIGN SUMMARY
CALCULATED AREA: AREA *
OCCUPANCY: WAREHOUSE
HAZARD: OUI
AREA / SPRINKLER: 130
DENSITY: 0.20 GPM / SQFT (MAX)
AREA OF OPERATION: 800 SQFT
NUMBER OF OPERATING HEADS: 4
SYSTEM DEMAND: 145.164 GPM @ 95.24 PSI
4 TEST
INSIDE HOSE DEMAND: N/A GPM
OUTSIDE HOSE DEMAND: 250 GPM
SPRINKLER HEAD: VIKING VK 3200 OR UPRIGHT
ORFICE: 1/2"
K FACTOR: 5.6
TEMPERATURE: 20°
NOTE:
CALCULATION DATA FILE

*SEE PAGE 1 FOR GENERAL NOTES

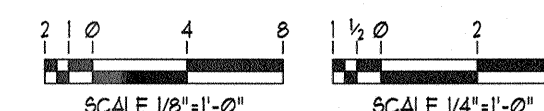
RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Lee's Summit Fire Department
Lee's Summit, Missouri
05/03/2024



FIRE SPRINKLER WEST

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



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FIRE PROTECTION SYSTEMS INC.

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REVIEWING AUTHORITY
LS FIRE DEPT.
HEADS THIS SHEET
80
TOTAL HEADS FOR JOB
260
SCALE
1/8" = 1'-0"
DRAWN BY
DANIEL LOGSTON
REVISION DATE
4-4-2024
DATE DRAWN
1-16-2024
CONTRACT NUMBER
J-2351
DRAWING NUMBER
2 OF 4

CONSTRUCTION:
INSULATED METAL DECK ROOF ON STEEL BEAMS 4 BAR JOIST @ 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 13, ORDINARY HAZARD OR II, 0.20 GPM/SQFT FOR 800 SQFT. OPERATING
MAX 130 GPM/HEAD SPACING 1.250 GPM FOR HOSE ALLOWANCE.

FLOW TEST DATA:
STATIC: 105 PSI
RESIDUAL: 76 PSI
CONDUCTED BY LS WATER
ON 8-10-2023 10:10AM
HYDRANTS 014-011 AND 014-013

DATE	REVISION
4-15-2024	SYSTEM NOW INCLUDES 5PSI SAFETY

Symbol	Description
○	Hydraulic Reference Points
⊖	Elev. Below Top of Steel
⊕	Elev. Above Finished Floor
⊙	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	NPT	Orif.	Make	Model	Finish	Style	Temp.	K=
⊗	12	3/4"	3/4"	RELIABLE	SR	BRASS	UPRIGHT GFR VELO ECHO	20°	14
◀	8	1/2"	1/2"	VIKING	QR	BRASS	HOR SIDEWALL	200°	5.6