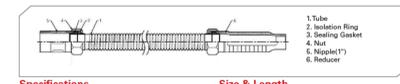


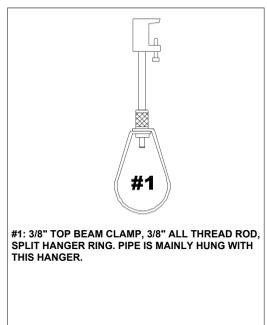
KEY PLAN
- NOT TO SCALE -

Commercial Flexible Fire Sprinkler Drops
Unbraided Flexible Hose



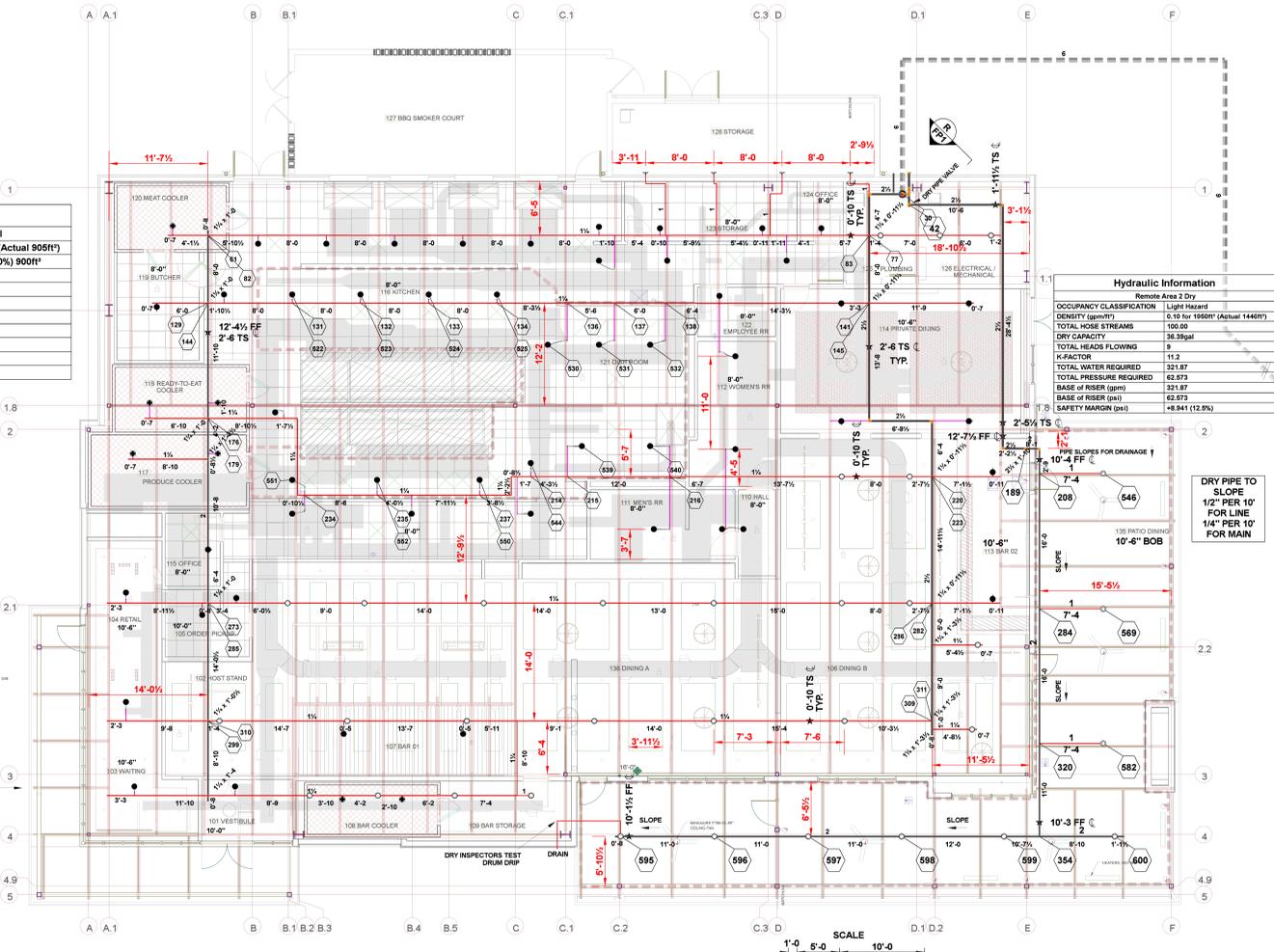
Specifications		Size & Length	
Max. Temp.	228°F	Outer	1/2", 3/4"
Min. Pressure	175 psi	Inner	1" NPT
Min. Bend Radius	4"	Length	20', 40', 60', 80', 100'
K-Factors	1/2" Outlet: 5.6 3/4" Outlet: 8.0		

40" FLEX DROPS TO BE USED FOR CENTER OF TILE INSTALLATION



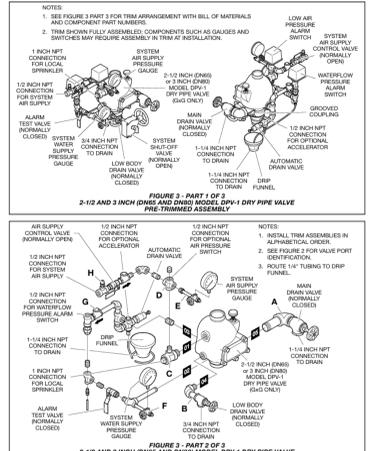
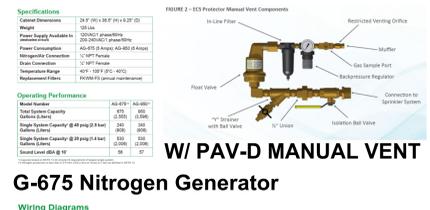
Hydraulic Information

OCCUPANCY CLASSIFICATION	Ordinary Group I
DENSITY (gpm/ft ²)	0.15 for 1500ft ² (Actual 905ft ²)
QUICK RESPONSE REDUCTION	9'-0" Ceiling (40.0%) 900ft ²
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	13
K-FACTOR	5.6
TOTAL WATER REQUIRED	509.26
TOTAL PRESSURE REQUIRED	68.884
BASE OF RISER (gpm)	509.26
SAFETY MARGIN (psi)	+11.979 (16.9%)



Supply Flow Test Data

Test Conducted By	Lee's Summit
Date of Test	12-9-25
Location	South-West Oldham Xing
Hydrant Numbers	Q38-192
Static Pressure	72.000
Residual Pressure	56.000
Flow	2127.00



System Capacity (gpm @ 1.8 psi)	Model Number	Average CFM	Motor HP	Voltage (volts)	Average Amps (amps)	Recommended Wire Size (AWG)	Recommended Breaker (amps)	Unit Weight (lbs)
100	OLR12016AC	1.46	1/4	240	1.5	14	15	25
250	OLR25033AC	3.03	1/2	240	3.2	12	15	35
400	OLR40058AC	4.85	3/4	240	4.9	10	15	45
500	OLR50070AC	6.08	1	240	6.3	10	15	45
600	OLR60084AC	7.28	1 1/2	240	7.6	10	15	45
915	OLR915108AC	11.10	1 1/2	240	11.6	10	15	60
1225	OLR122020AC	14.85	2	240	15.6	10	15	70

1. 6" NEW FIRE LINE BY OTHERS, HYDROSTATIC & FLUSHING INSPECTIONS PERFORMED PER NFPA AND AHJ STANDARDS. NFPA INSPECTION FORMS TO BE FILLED OUT BY INSTALLING CONTRACTOR.
2. 6" SPLIT FLANGE & BOLT PACK ATTACHED TO FIRELINE ABOVEGROUND SPIGOT FLANGE TERMINATING 1'-6" ABOVE FINISHED FLOOR.
3. 6" X 2-1/2" CONCENTRIC REDUCER.
4. 2-1/2" DERRINGER 30 BFP DOUBLE CHECK DETECTOR. PER LEE'S SUMMIT STANDARDS. ALARM WIRING AND MONITORING BY OTHERS.
5. 2-1/2" FLUSHING T WITH CAP.
6. 2-1/2" FLOW SWITCH. ALARM WIRING AND MONITORING BY OTHERS.
7. WATER PRESSURE GAUGE ASSEMBLY.
8. 2" GROOVED AGF TEST N DRAIN WITH 1/2" PRV & K5.6 ORIFICE.
9. 2" GALVANIZED 45 ON SYSTEM DRAIN PIPED TO EXTERIOR.
10. 2-1/2" TEE TO FDC AND DRY RISER.
11. FDC 30 DEGREE 4" STORZ.
12. BFP FLUSHING T CAPPED.
13. DRY PIPE VALVE 2-1/2" (TYCO DVP-1 PRE TRIM) W/ AG675 NITROGEN GENERATOR & PAV-D VENT CONTROLLER & GENERAL AIR COMPRESSOR (OLR12016AC), 37 GALLON CAPACITY.
14. GENERAL INFORMATION SIGNAGE. INSTALL VALVE ID SIGNS.
15. SPARE HEAD BOX WITH WRENCH PER NFPA13 6.2.9.
16. MANUAL AIR VENT NEAR HIGHEST POINT IN SYSTEM PER NFPA13 8.16.6 (1" GROOVE VALVE WITH PLUG).

COVERAGE EXCLUDED PER NFPA 13 8.15.7.2

BLD
1/8" = 1 Foot



Sprinkler Legend

Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Type	Size	Response	Finish	Temperature	Note	
●	Viking	VK3021		52	5.6	Pendent	1/2	Quick	Chrome	175°F		
●	Viking	VK3001		30	5.6	Upright	1/2	Quick	Brass	175°F		
●	Tyco	TY2335 Dry		7	5.6	Pendent	1	Quick	Chrome	175°F	Dry	
●	Tyco	TY3335 DRY		4	5.6	Horizontal Sidewall	1	Quick	Chrome	175°F		
●	Viking	VK532 EC		3	11.2	Upright	3/4	Quick	Brass	175°F		
				Total =	96							

TOS= TOP OF STEEL
 FDC = FIRE DEPARTMENT CONNECTION
 FT = FOOT
 BLD = BUILDING
 GPM = GALLONS PER MINUTE
 PSI = POUNDS PER SQUARE INCH

1. FIRE SPRINKLER DESIGN PER NFPA 13 2016 EDITION.
2. OWNER SHALL MAINTAIN SYSTEM PER NFPA 25.
3. ALL MATERIALS USED SHALL COMPLY WITH SPECIFIED REQUIREMENTS.
4. CONTINUOUS CENTRAL MONITORING OF ALARM COMPONENTS PER NFPA 72 SHALL BE BY OTHERS.
5. ALL ALARM AND ELECTRICAL WORK ASSOCIATED WITH INSTALLED COMPONENTS SHALL BE BY OTHERS.
6. ALL UNDERGROUND WORK BY OTHERS. FIRE LINE SHALL BE FLUSHED PER NFPA 24 REQUIREMENTS OVER AND ABOVE LOCAL WATER JURISDICTION REQUIREMENTS. NFPA TEST PAPERS FILLED OUT AND SIGNED BY INSTALLER SHALL BE SUBMITTED TO GENERAL CONTRACTOR PRIOR TO THE ABOVEGROUND SYSTEM BEING PUT INTO SERVICE.
7. ANY PAINTING OF PIPE BY OTHERS.
8. CONDITIONING OF BUILDING ENVELOPE TO PREVENT WATER FREEZING IN PIPES SHALL BE BY OTHERS BEFORE AND AFTER OCCUPANCY.
9. ANY LABELING OF PIPE BY OTHERS.
10. PIPE WITH GROOVED ENDS SHOULD BE SCHEDULE 10.
11. PIPE WITH THREADED ENDS SHALL BE SCHEDULE 40.

REVISIONS:
SCALE: 1/8" = 1'

Alliance FIRE PROTECTION
130 W 9th Ave, Suite 101
North Kansas City, MO 64116
PH: 913-888-0647 FAX: 913-888-0618
WWW.AFSPRINK.COM

DRAWN BY: DB
DATE: 2-5-26
JOB #: NC1505
SHEET NO: 1 OF 1

JOB NAME:
Q39 Lee's Summit
Lee's Summit Mo Oldham Village
CONTRACTOR:
Centric Build
620 W Penway St #100, Kansas City, MO 64108