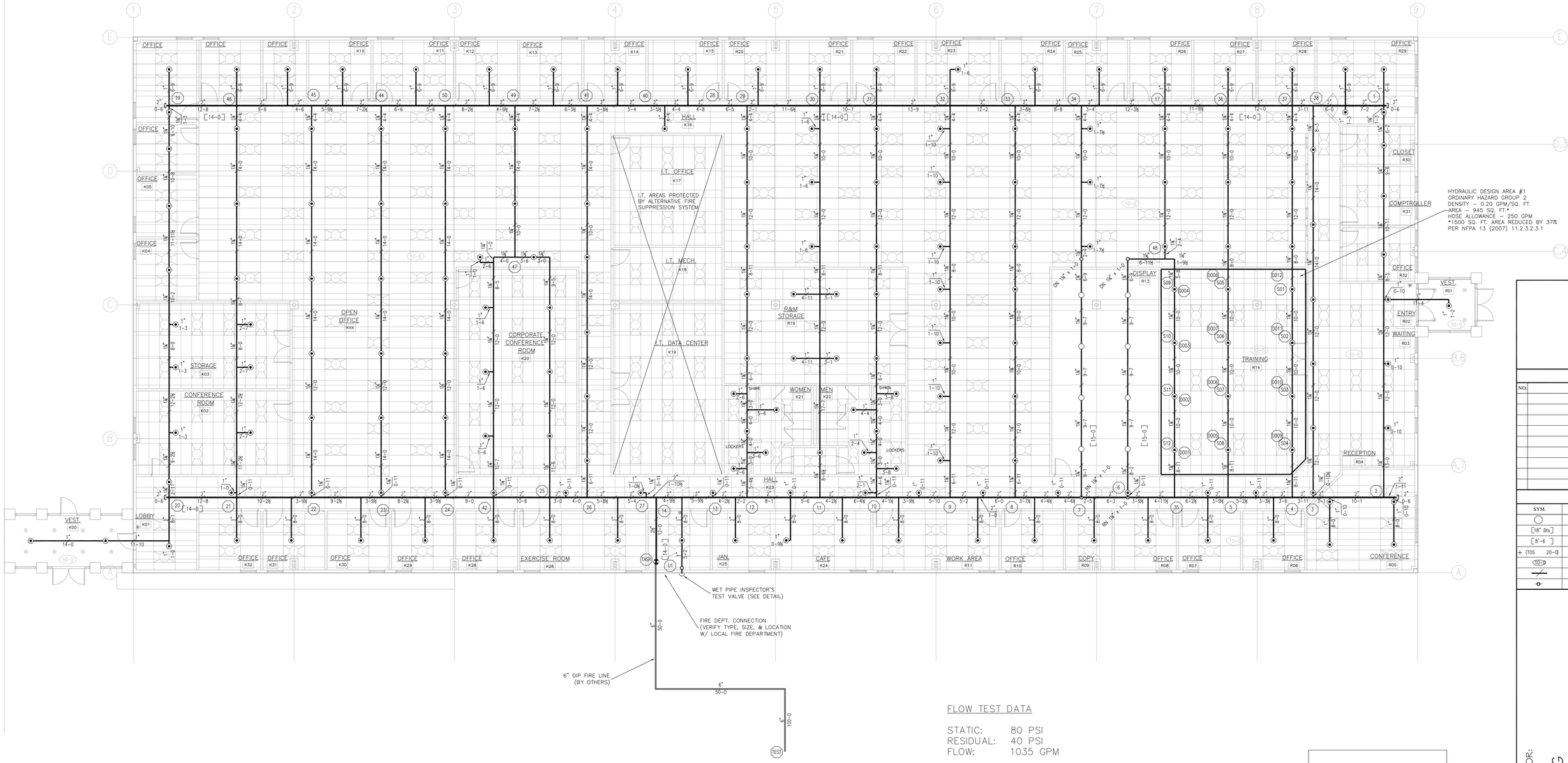
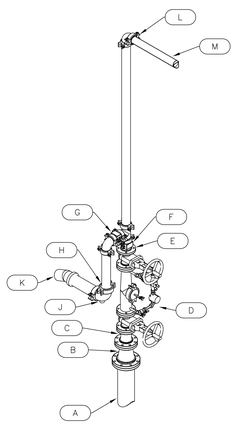


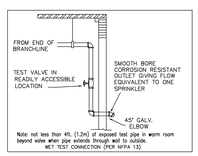
1 FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"



2 RISER DETAIL
SCALE: ½" = 1'-0"

RISER LEGEND

A	6" FIRE MAIN LEAD-IN (BY OTHERS)
B	6" X 4" FLANGED CONCENTRIC REDUCER
C	4" X 3" FLANGED CONCENTRIC REDUCER
D	3" AMES 3000SS BACKFLOW PREVENTER W/ OS&Y VALVES AND TAMPER SWITCHES (WIRING BY OTHERS)
E	3" FLANGE-GROOVE ADAPTER
F	3" RISER CHECK VALVE W/ GAUGES, MAIN DRAIN PIPED OUTSIDE BUILDING
G	3" GROOVED CHECK VALVE
H	4" X 3" GROOVED REDUCING COUPLING
J	4" DRAIN ELL W/ ¾" BALL DRIP
K	FIRE DEPARTMENT CONNECTION (VERIFY TYPE, SIZE, AND LOCATION WITH LOCAL FIRE DEPARTMENT)
L	3" X 2½" GROOVED REDUCING COUPLING
M	2½" SCHEDULE 10 SPRINKLER PIPE TO SYSTEM
	3" WATERFLOW SWITCH (NOT SHOWN)
	10" EXTERIOR ELECTRIC ALARM BELL (COORDINATE VOLTAGE WITH ELECTRICAL CONTRACTOR)
	SPARE HEAD CABINETS STOCKED WITH SPARE SPRINKLERS PER NFPA 13 (2007)



SPRINKLER HEAD LEGEND

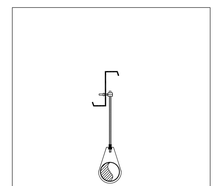
◉ (200) RELIABLE F1FR QR RECESSED CHROME PENDENT ½" NPT, 5.6K, 155°

○ (8) RELIABLE F1FR QR BRASS UPRIGHT ½" NPT, 5.6K, 155°

TOTAL HEADS FOR PROJECT – 208

FLOW TEST DATA

STATIC: 80 PSI
RESIDUAL: 40 PSI
FLOW: 1035 GPM



HANGER DETAIL #21
NO SCALE

3/8" All Thread Rod
Sammy Sidewinder w/ Retaining Nut
Swivel Hanger Ring

CONSTRUCTION NOTES

GENERAL NOTES

SPRINKLER SYSTEM TEST TO BE WITNESSED BY OWNER OR OWNER'S REPRESENTATIVE

SPRINKLER SYSTEM IS A WET PIPE SYSTEM. IT IS OWNER'S RESPONSIBILITY TO PROVIDE ADEQUATE HEAT THROUGHOUT BUILDING TO PREVENT FREEZE UPS.

INSTALLATION / FABRICATION NOTES

SPARE SPRINKLERS, WRENCHES, CABINETS, SIGNS, TESTS, DRAINS, FLUSHING PROVISIONS, AND INSPECTOR'S TEST PROVIDED PER NFPA 13, & OBC.

1¼" AND LARGER PIPE TO BE SCHEDULE 10 WITH GROOVED FITTINGS AND WELDED OUTLETS.

1" PIPE TO BE SCHEDULE 40 BLACK STEEL WITH THREADED FITTINGS.

CONTRACTOR TO FIELD VERIFY ALL JOB CONDITIONS AND PIPE/HEAD LOCATIONS PRIOR TO FABRICATION AND INSTALLATION.

MRH SPRINKLER DESIGN'S TOTAL LIABILITY ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS DRAWING SHALL NOT EXCEED THE AMOUNT OF THE DESIGN CONTRACT BETWEEN MRH AND INSTALLATION CONTRACTOR.

FIRE PROTECTION / SPRINKLER

SPRINKLER SYSTEM TO BE DESIGNED, FABRICATED, AND INSTALLED PER NFPA 13, & OBC.

INTERIOR AND EXTERIOR ALARMS AND SUPERVISION TO BE PER OBC AND NFPA.

ALL DIMENSIONS SHOWN ARE CENTER-TO-CENTER UNLESS OTHERWISE NOTED.

HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED.

ALL PIPES AND HANGERS ARE TO BE INSTALLED PER NFPA 13, & OBC.

FIRE EXTINGUISHERS, CABINETS, AND ELECTRIC WIRING BY OTHERS.

REVISIONS

NO.	DESCRIPTION OF REVISION	DATE

COMMON SYMBOLS

SYM.	DESCRIPTION
○	HYDRAULIC REFERENCE POINT
[18" Bts.]	ELEVATION BELOW TOP OF STEEL
[8'-6]	ELEVATION ABOVE FINISHED FLOOR
+ (TOS 20-9)	ELEVATION OF TOP OF STEEL
(10'-0")	CEILING HEIGHT
	DENOTES HANGER LOCATION
	RISE UP OR DOWN

FIRE PROTECTION PLANS FOR:
OFFICE BUILDING
NEW ADDITION

COMPANY	SIGNATURE	DATE

PROJECT NUMBER:	DATE: 08.02.2008
DRAWN BY: T. LIDDIC	CHECKED BY:
SCALE: 1/8" = 1'-0"	CHECKED DATE:

PREPARED BY: MRH SPRINKLER DESIGN, LLC
356 LAUREL GLEN DR.
SPRINGBORO, OH 45066
937.369.7926
415.534.1397 FAX

DESIGN AUTHORIZATION #: 0802

SHEET TITLE: FIRE PROTECTION PLAN

SHEET NUMBER: FP1.0

FILE: C:\Docs\2008\subs.dwg
DATE: 10/27/08 September 14, 2009