- CONTRACTOR(S) SHALL VERIFY EXISTING CONDITIONS AND CORRELATE DIMENSIONS PRIOR TO PROVIDING THE WORK DETAILED IN THESE DRAWINGS. AND SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
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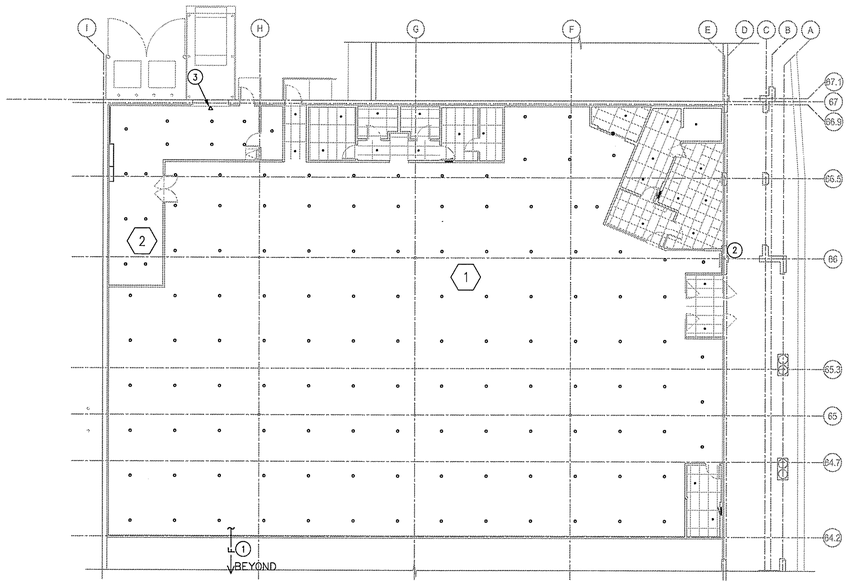
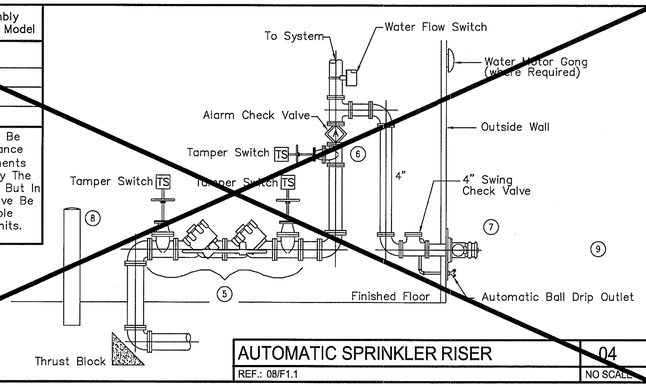


Note:
Refer to specifications for limitations and specific requirements and criteria for PETCO and PETCO's insurance carriers

Double Check Detector Assembly Acceptable Manufacturer And Model	
Manufacturer	Model
Watts	709DCDA
Wilkins	950DA
Ames	3000DCDA

NOTE: Backflow Preventer May Be Mounted Vertically In Accordance With Manufacturer's Requirements And If Deemed Acceptable By The Authority Having Jurisdiction, But In No Case Shall The Alarm Valve Be Mounted Outside Of Acceptable Clearance Or Accessibility Limits.



0 1/4" 1/2" 1" 2" 3" 4" 5"

AUTOMATIC SPRINKLER RISER	04
REF.: 08/F1.1	NO SCALE

REDUCED SCALE PLAN	08
REF.:	1/16"=1'-0"

OCCUPANCY CLASSIFICATIONS AND DESIGN DENSITIES

Tag	Area	Product/Use	Method Of Storage Or Display	Density
1	Retail	Live Animals Supplies And Accessories, Some Plastics Stored At > 5' AFF.	Standard Retail Sales, Island Gondolas, W/ Shelves Back To Back 4' Total Width, 6' And 8' High, Perimeter Gondolas Max 10' High And Merchandise To Max 12' High	See Fire Suppression Criteria.
2	Pre-Sales	Perimeter rack storage and some palletized storage	Perimeter racks Max 10' High And Merchandise To Max 12' High	See Fire Suppression Criteria.

CODE ANALYSIS	03
REF.:	NO SCALE

FIRE SUPPRESSION GENERAL NOTES

1. The sprinkler head layout shown is a general type indicating the scope of the required sprinkler head placement. The Contractor shall include all required piping, offsets, heads, risers, drops and all necessary items to provide a complete sprinkler system approved by all governing agencies. The contractor shall arrange for/or make and pay for the required "flow test" in the street mains in order to determine the actual sprinkler system final design. The Contractor shall hydraulically calculate the required pipe sizes. Confirm piping routing with Architect.
2. The Contractor shall hire a Professional Engineer licensed in the State and qualified to prepare the necessary coordinated drawings, calculations, and equipment specification and submit these along with all other required information and data to the project Architect/Engineer and to all Authorities Having Jurisdiction, i.e. State and/or local agencies, insurance company, approval agency, the local Fire Marshal, ISO, etc.
3. The Contractor shall coordinate the sprinkler system layout with all trades including, but not limited to, heating ventilating and air conditioning, sheet metal, plumbing, electrical, ceiling and structural steel. Refer to the reflected ceiling plan for the exact layout of sprinkler heads in relation to ceiling grid where applicable.
4. The completed sprinkler system including all components and their installation shall be in strict accordance with all applicable codes.
5. If installation of sprinkler system commences prior to receipt of approved shop drawings, the Contractor shall make all necessary changes to piping at no additional cost to the owner.
6. All piping that penetrates walls shall be sleeved and have escutcheons. Any penetrations through fire rated partitions shall be sealed with scotch-3M #FS195 wrap and #CP25 caulk as per manufacturer's recommendations.
7. See architectural drawings for reflected ceiling plan.
8. Furnish and install additional sprinkler heads below HVAC ductwork and overhead doors to conform with the requirements of NFPA 13 and Local Authorities. Furnish and install dry sprinkler heads above suspended ceiling and/or type sprinkler system in canopy where required by local jurisdiction.
9. All exposed piping must be free of rust upon completion of installation. Piping with apparent rust must be cleaned and painted prior to approval by Architect.
10. In areas with lay-in ceilings, sprinkler heads shall be located in the center of the tile in the 2'-0" direction only.
11. Where required provide 1-1/2" class # fire hose cabinet such as manufactured by Potter-Romer, Inc. Provide and install #1024-A cabinet with #1952 decal (3" horizontal red "fire hose"). #2010-A-1-1/2" hose assembly with #2935 couplings and #2947 nozzle. Connect to nearest source 4" fire sprinkling main line. Confirm exact location.
12. Shop drawings shall include the following information:
    a. Available static and residual water pressure.
    b. Available water flow in gallons per minute and duration.
    c. Source of water supply.
    d. Classification of hazards.
    e. Occupancy use of the building.
    f. Type of system(s) to be installed.
    g. Applicable NFPA standards to be followed for each component of the system(s).
    h. Other state and local statutes, regulations, codes or ordinances that must be followed.
    i. Name, address, and phone number of the sprinkler system design engineer of record.
    j. Other information required by the State or municipality.

    Documents shall bear the signature and seal and be dated by the Sprinkler Contractor's design engineer.
13. Refer to architectural plans for applicable codes, construction type(s), occupancy classification, and building square footage(s).
14. Provide metal placard with system hydraulic characteristics in accordance with NFPA 13, and fasten to the fire sprinkler riser. Fasten with metal strapping or worm gear straps top & bottom (plastic zip ties are not acceptable).

NOTES FOR THIS PROJECT

1. Modify and extend the existing sprinkler system to suit the new conditions and in accordance with all requirements of authorities having jurisdiction. These modifications shall be coordinated with existing and new conditions including lighting layout and new ceiling height(s).
2. At the discretion of the contractor and with the approval of the PETCO PM, Local Authority Having Jurisdiction and in accordance with all local, state and NFPA codes all or parts of the existing system(s) may be reused and modified. In areas containing a ceiling, the sprinkler heads and mains shall be relocated as required to coordinate with the new diffuser and lighting layout, and with the new ceiling height(s). This may include but not be limited to the modification or relocation of; branch or main sprinkler piping and sprinkler heads. The final sprinkler head layout will be based upon the final fixture plan layout. See architectural drawings for final layout.

FIRE SUPPRESSION SYMBOLS

Identifier	Description
⋈	OS&Y Gate Valve
●	Pendant Mounted Sprinkler Head w/ Recessed Chrome Escutcheon
○	Upright Sprinkler Head
⊗	Concealed Sprinkler Head
◁	Sidewall Mounted Sprinkler Head
FS ■	Water Flow Switch
TS ■	Tamper Switch

FIRE SUPPRESSION KEY NOTES

1. Landlord's Fire service entrance.
2. Inspector's test in furred out wall, behind access panel. Verify location with PETCO Project Manager prior to design and installation of sprinkler system. Refer to Project Manual for access panel specifications.
3. Side wall sprinkler head below overhead door in open position (if required).
4. Install sprinkler branch piping drop in close proximity to exhaust duct down to ceiling. Refer to Architectural Plans for designated, limited area for sprinkler pipe and other trades' work. Offset to sprinkler head location above ceiling, and drop through ceiling with concealed sprinkler head.
5. Not used.
6. Not used.
7. Not used.
8. Not used.

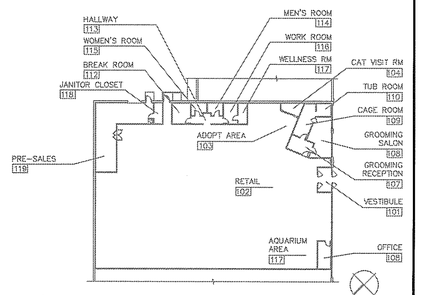
FIRE SUPPRESSION CRITERIA

A. Group "A" plastics routinely and periodically exist in this building to no higher than twelve feet on shelves in Retail and Pre Sales areas.

B. Sprinkler system density .4 over 2500 sq. /ft. based on:
   a. Utilizing the decision tree NFPA–13 2002 figure 12.2.3.1.1 and table 12.2.3.1.6
   b. Group "A" plastics on shelves and displays between five and twelve foot high. Non–expanded, stable loads, exposed.
   c. Design density for shelf storage </= twelve foot high table 12.3.1.6 col–E roof height > 15' to 20' curve 5.
   d. Figure 12.1.10 Curve 5 Density .4/2500 sq. /ft. and 500 GPM for hose streams (see table 12.2.1.2) don not revise the area down for high temperature heads

C. Sprinkler heads K–11 or larger per 12.1.13.3 for new construction.

D. Based on prototypical building height of </=20'.



KEY PLAN	01
REF.:	NO SCALE

MEP Engineer of Record
Randall A. Nelson, P.E.
14817 West 95th Street
Lenexa, Kansas 66215
Phone 913 322 5150

PETCO ANIMAL SUPPLIES STORES, INC.
PETCO "CARY, NC"
213 CROSSROADS BOULEVARD
CARY, NC 27518

PETCO
9125 RUSSCO ROAD
SAN DIEGO, CALIFORNIA 92121

DISTRIBUTION:	DATE:
25% SUBMISSION	01-15-10
75% SUBMISSION	01-29-10
98% SUBMISSION	02-25-10
ISSUED FOR CONSTRUCTION	02-26-10

SBLM JOB#	PETCO P.M. JOB #
09147	09277
DRAWN:	CHECKED:
MTH/JCC/JMM	BJT

DRAWING TITLE:
FIRE SUPPRESSION GENERAL INFORMATION AND SCHEDULES

F1.1