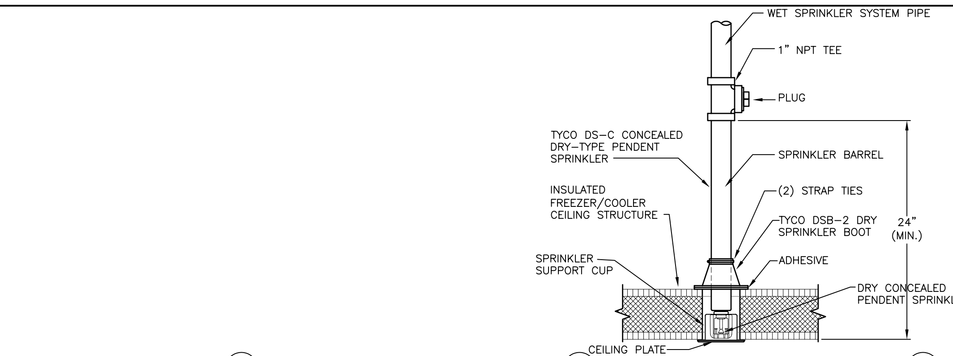
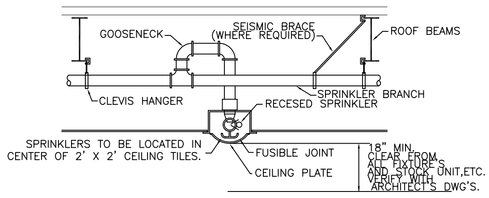


8 DRY PENDENT SPRINKLER INSTALLATION
NO SCALE



CONCEALED SPRINKLER HEAD INSTALLATION
NO SCALE
(TYPICAL FOR ALL AREAS OF FINISHED CEILING CONSTRUCTION)

SPRINKLER HEAD LEGEND

- ● FULLY CONCEALED SPRINKLER HEAD WITH WHITE CEILING PLATE (175°F TEMPERATURE RATING-U.O.N.)
- ○ UPRIGHT PENDENT SPRINKLER HEAD ON EXPOSED PIPE (175°F TEMPERATURE RATING U.O.N.)
- ⊠ CONCEALED DRY-PENDENT (NON-FREEZE) SPRINKLER HEAD (135°F TEMPERATURE RATING)

SPRINKLER SYSTEM NOTES

1. FIRE PROTECTION CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND FULLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS, ANY DEVIATIONS OR DISCREPANCIES BETWEEN THESE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE TENANT'S PROJECT MANAGER FOR CLARIFICATION. BID SHALL INCLUDE ALL COSTS DUE TO EXISTING CONDITIONS.
2. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL LANDLORD SPECIFIC DESIGN AND INSTALLATION REQUIREMENTS, AND SHALL INCLUDE ALL COSTS DUE TO THOSE REQUIREMENTS IN THE BASE BID.
3. FIRE PROTECTION CONTRACTOR SHALL DESIGN AND INSTALL THE REQUIRED MODIFICATIONS TO THE EXISTING HYDRAULICALLY CALCULATED WET PIPE SPRINKLER SYSTEM FOR THE ENTIRE DEMISED SPACE INDICATED HEREIN THESE DOCUMENTS. THE SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13 FOR ORDINARY HAZARD OCCUPANCY, PROVIDING A MINIMUM SPRINKLER DENSITY OF .20 GPM OVER THE MOST REMOTE 1500 SQ.FT. OF FLOOR AREA.
4. FIRE PROTECTION CONTRACTOR SHALL PREPARE AND FILE SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS WITH THE LANDLORD, THE LANDLORD'S INSURANCE RATING AGENCY, THE ARCHITECT, AND ALL STATE, LOCAL AND MUNICIPAL AUTHORITIES IN JURISDICTION, AND SHALL RECEIVE ALL NECESSARY APPROVALS PRIOR TO COMMENCEMENT OF ANY INSTALLATION WORK.
5. CONSTRUCTION DOCUMENTS FOR FIRE PROTECTION / SPRINKLER SYSTEMS ARE TO BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION BY SPRINKLER CONTRACTOR UNDER SEPARATE PERMIT APPLICATION. FIRE PROTECTION SYSTEMS ARE TO BE MAINTAINED IN ACCORDANCE WITH ORIGINAL INSTALLATION STANDARDS. REQUIRED FIRE PROTECTION SYSTEM SHALL BE MODIFIED AS NECESSARY TO MAINTAIN PROTECTION WHENEVER BUILDING IS ALTERED.
6. REMOVE OR RELOCATE EXISTING SPRINKLER HEADS AND FURNISH AND INSTALL NEW AS PER NFPA-13 RECOMMENDATIONS, TO PROVIDE ADEQUATE COVERAGE OF THE ENTIRE DEMISED PREMISES.
7. SPRINKLER HEAD SPACING SHALL NOT EXCEED 130 SQ.FT. PER HEAD.
8. NEW SPRINKLER HEADS SHALL BE APPROVED STANDARD TYPES, PENDENT AND UPRIGHT, AND DESIGNED FOR ORDINARY HAZARD COVERAGE. CHROME PLATED "TYCO", "GRINNELL", "VIKING", "STAR" OR EQUAL. SEE PLANS FOR SPRINKLER HEAD TYPES.
9. ALL SPRINKLER WORK SHALL COMPLY WITH ALL NFPA-13 RECOMMENDATIONS, AND SHALL BE PERFORMED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE LANDLORD, LOCAL FIRE RATING ORGANIZATION, FIRE AND/OR BUILDING DEPARTMENTS AND ALL AUTHORITIES IN JURISDICTION.
10. ALL SPRINKLER SYSTEM WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE LANDLORD'S INSURERS AND SHALL BE DESIGNED TO SECURE THE BEST POSSIBLE INSURANCE RATES ON THE BUILDING AND IT'S CONTENTS.
11. FIRE PROTECTION CONTRACTOR SHALL FILE FOR, OBTAIN, AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
12. FIRE PROTECTION CONTRACTOR SHALL ARRANGE FOR ANY SHUTDOWNS OF THE EXISTING SYSTEM WITH THE LANDLORD AND LOCAL FIRE DEPARTMENT REPRESENTATIVE, AND SHALL SECURE IN WRITING PRIOR TO SHUTDOWN, APPROVALS FROM SAME. ADDITIONALLY, THE FIRE PROTECTION CONTRACTOR SHALL PAY FOR ANY LABOR, MATERIALS, AND FEES NECESSARY FOR SHUTDOWN.
13. IN THE EVENT OF THE FIRE PROTECTION SYSTEM BEING "OUT OF SERVICE", THE FIRE DEPARTMENT & LOCAL CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY, AND IF REQUIRED BY CODE OFFICIAL, SAID BUILDING TO BE EVACUATED OR PROVIDED WITH AN APPROVED FIRE WATCH SYSTEM WILL BE PROVIDED FOR ALL UNPROTECTED OCCUPANTS UNTIL SYSTEM IS RETURNED TO SERVICE.
14. WHEN UTILIZED, FIRE WATCHES SHALL BE PROVIDED W/ MIN. OF ONE APPROVED MEANS OF NOTIFICATION OF THE FIRE DEPT. THE ONLY DUTY OF THE FIRE WATCH IS TO PERFORM CONSTANT PATROLS OF THE PREMISES AND KEEP WATCH FOR FIRES.
15. FIRE PROTECTION CONTRACTOR SHALL CAREFULLY EXAMINE ALL EXISTING SPRINKLER SYSTEM PIPING AND COMPONENTS, AND SHALL REPAIR OR REPLACE ANY LEAKING OF DEFECTIVE PIPING OR COMPONENTS.
16. SPRINKLER PIPE MATERIAL AND INSTALLATION SHALL MATCH EXISTING.
17. FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL REQUIRED TEST AND DRAIN CONNECTIONS, WHETHER OR NOT THEY ARE INDICATED HEREON THESE PLANS.
18. FIRE PROTECTION CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY ALARM INITIATING DEVICES AND SUPERVISORY DEVICES, AND SHALL COORDINATE THE ELECTRICAL REQUIREMENTS FOR THEM WITH THE E.C. AND/OR FIRE ALARM CONTRACTOR FOR THEIR CONNECTION TO THE FIRE ALARM SYSTEM.
19. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO ANY PORTION OF THE EXISTING SPRINKLER SYSTEM ON ANY PORTION OF THE BUILDING INCURRED BY HIM DURING CONSTRUCTION.
20. UPON COMPLETION OF THE INSTALLATION, FIRE PROTECTION CONTRACTOR SHALL DEMONSTRATE TO THE SATISFACTION OF THE AUTHORITIES IN JURISDICTION AND THE LANDLORD'S INSURANCE UNDERWRITERS, THE OPERATION OF THE ENTIRE PROTECTION SYSTEM, INCLUDING ALL ALARM INITIATING DEVICES AND SYSTEM SUPERVISORY DEVICES.
21. FIRE PROTECTION SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH CODES LISTED ON SHEET T-1. WHEN REQUIRED THE TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE BUILDING OFFICIAL. TESTS SHALL BE CONDUCTED AT THE EXPENSE OF THE LANDLORD. IT WILL BE UNLAWFUL TO OCCUPY PORTIONS OF THE STRUCTURE UNTIL SYSTEMS ARE TESTED AND APPROVED.
22. PRIOR TO REQUESTING FINAL APPROVAL, THE SPRINKLER CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE CODE OFFICIAL INDICATING THAT THE FIRE PROTECTION SYSTEM HAS BEEN INSTALLED PER APPROVED PLANS, AND HAS BEEN TESTED AS REQUIRED, ANY EXCEPTIONS FROM THE D DESIGN STANDARDS SHALL BE NOTED AND COPIES OF APPROVALS ATTACHED TO THE FORE MENTIONED WRITTEN STATEMENT.
23. PARTIAL OCCUPANCY OF THIS AREA SHOULD NOT BE PERMITTED UNLESS ALL FIRE PROTECTION SYSTEMS FOR THE OCCUPIED AREAS HAVE BEEN TESTED AND APPROVED. THE CODE ASSUMES THAT FULL PROTECTION FOR ALL AREA WILL BE PROVIDED AS QUICKLY AS POSSIBLE. FINAL APPROVAL OF PARTIAL OCCUPANCY CONDITIONS IS SUBJECT TO THE BUILDING OFFICIAL.

SEISMIC BRACING NOTES:

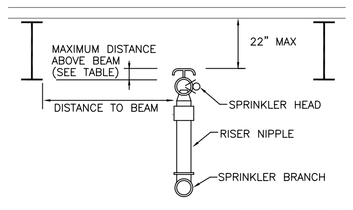
A) ALL PIPING 2-1/2 IN. NOMINAL DIAMETER AND LARGER MUST BE BRACED.

B) TRANSVERSE AND VERTICAL BRACING SHALL OCCUR AT 40 FT. INTERVALS (MAX) AND LONGITUDINAL BRACING AT 80 FT. INTERVALS (MAX).

C) BRACING IS NOT REQUIRED FOR PIPING SUSPENDED BY HANGERS 12 IN. OR LESS IN LENGTH AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED.

EXISTING CONDITIONS NOTE

A SURVEY OF EXISTING CONDITIONS WAS NOT COMPLETED BY THIS ENGINEER. THE EXISTING CONDITIONS DEPICTED ARE BASED ON INFORMATION PROVIDED BY OTHERS. THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL VERIFY THAT ALL EXISTING CONDITIONS DOCUMENTED ON THESE DRAWINGS MATCH THE FIELD CONDITIONS. UNDER ANY CIRCUMSTANCE THAT THERE ARE DISCREPANCIES BETWEEN THE DOCUMENTED EXISTING CONDITIONS AND THE ACTUAL FIELD CONDITIONS, THE ENGINEER SHALL BE NOTIFED IMMEDIATELY FOR DECISIONS AND INSTRUCTIONS REGARDING ANY CHANGES THAT MAY NEED TO BE INCORPORATED INTO THE WORK TO FULFILL THE INTENT OF SYSTEM DESIGN.



Distance from Sprinkler to Side of Beam	Maximum Allowable Distance Deflector above Bottom of Beam
Less than 1 ft	0 in.
1 ft to less than 1 ft 6 in	2½ in.
1 ft 6 in to less than 2 ft	3½ in.
2 ft to less than 2 ft 6 in	5½ in.
2 ft 6 in to less than 3 ft	7½ in.
3 ft to less than 3 ft 6 in	9½ in.
3 ft 6 in to less than 4 ft	12 in.
4 ft to less than 4 ft 6 in	14 in.
4 ft 6 in to less than 5 ft	16½ in.
5 ft to less than 5 ft 6 in	18 in.
6 ft 6 in to less than 6 ft	20 in.
6 ft to less than 6 ft 6 in	24 in.
6 ft 6 in to less than 7 ft	30 in.
7 ft to less than 7 ft 6 in	35 in.

UPRIGHT SPRINKLER INSTALLATION
NO SCALE
(TYPICAL FOR ALL AREAS OF EXPOSED STRUCTURE CONSTRUCTION)

SALES AREA
101

VESTIBULE
103

WOMEN'S ROOM
103

EXIST. COMMON EGRESS COORIDOR

MEN'S ROOM
104

CORRIDOR
106

DEMO STATION
131

DEMO ROOM
130

BEVERAGE COOLER
120

STOCKROOM
121

EXIST. REFRIGERATION ROOM
112

EXIST. WATER CLOSET
113

EXIST. ELECTRICAL ROOM
114

SALES SUPPORT RM.
105

CAPTAIN'S STATION
133

RESERVE FREEZER
131

EXISTING DRY LOOP SPRINKLER SYSTEM CURRENTLY PROTECTING THE AREA UNDER THE CANOPY TO BE EXTENDED TO NEW CANOPY SECTIONS AS REQUIRED TO PROVIDE FULL COVERAGE

7'-2 1/2" | 25'-5 1/2" | (TYPICAL FOR WALK-IN COOLER/FREEZER BOXES) | 174'-6 1/2" | 141'-10 1/2"

63'-5" | 30'-10 1/4" | 11'-7 5/8" | 92'-4 1/2" | 71'-8 3/8" | 16'-8" | 22'-10" | 40'-0" | 25'-0" | 113'-0" | 5'-0" | 25'-0" | 1'-9" | 9'-1" | 9'-4" | 30'-6" | 9'-1" | 1'-3"

31'-6" | 3'-6" | 32'-0" | 3'-6" | 32'-0" | 3'-6" | 32'-0" | 8'-0" | 31'-6" | 2" | 13'-6" | 1'-0" | 1'-10½" | 10'-0" | 161'-1" | 15'-5"

SPRINKLER PLAN
SCALE: 1/8" = 1'-0"

Jeffrey Taylor Architect
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White Plains, N.Y. 10603
tel 914 289 0011
fax 914 289 0022

SEAL

COMMENTS

REVISIONS NO.	DATE

DATE: 04/28/10
JOB NO.: FT-1912
DRAWN BY: FTA
TENANT STORE No.: XXX
SPACE No.: XXXX

SALES: 11,224 sq. ft.
STOCK: 5,424 sq. ft.
MISC.: 1,464 sq. ft.
TOTAL: 23,350 sq. ft.

PROJECT: TRADER JOE'S
87 MARGINAL WAY
PORTLAND, ME. 04101

SHEET NAME: SPRINKLER PLAN

SP-1

DON PENN
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