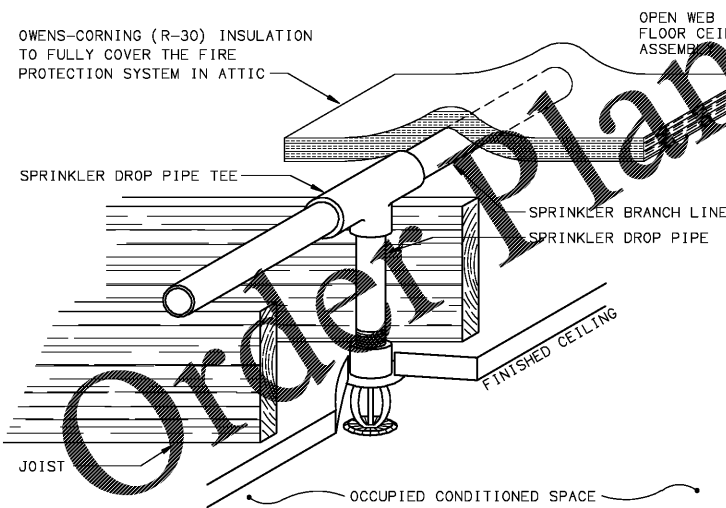


RISER WITH STANDPIPES
SCALE: N.T.S.



NOTE: ALL SPRINKLER PIPING TO BE INSTALLED ON THE CONDITIONED (HEATED) SIDE OF THE INSULATION.

PIPING INSULATION DETAIL
SCALE: N. T. S.

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- DWG DRAWING
- CONT CONTINUED
- UNO UNLESS NOTED OTHERWISE
- NO A/S NO AUTOMATIC SPRINKLER REQUIRED IN THIS SPACE
- TYP TYPICAL
- FDC FIRE DEPARTMENT CONNECTION
- PIV POST INDICATING VALVE
- B. O. R. BASE OF RISER
- HYD FIRE HYDRANT
- F. C. FLUSHING CONNECTION

LEGEND

- ABOVE GROUND PIPING
- - - UNDERGROUND PIPING BY THIS CONTRACTOR
- ⊥ ELBOW DOWN
- ⊕ TEE DOWN
- ⊖ ELBOW UP
- ⊕ TEE UP
- GROOVE CAP
- NIPPLE AND CAP
- DIELECTRIC UNION AT DISSIMILAR MATERIALS
- - - UNDERGROUND PIPING BY SITE CONTRACTOR
- ⊗ RISER/STANDPIPE LOCATION
- ⊗ OS&Y CONTROL VALVE WITH TAMPER SWITCH
- ⊗ INDICATING BUTTERFLY VALVE WITH TAMPER SWITCH
- ⊗ CONTROL VALVE WITH TAMPER SWITCH
- ⊗ SWING CHECK VALVE
- ⊗ SAFER CHECK VALVE
- ⊗ ANGLE VALVE
- ⊗ TEST AND DRAIN VALVE
- ⊗ WATER FLOW SWITCH
- ⊗ PRESSURE GAUGE WITH VALVE COCK
- ⊗ 2 1/2" ANGLE FIRE HOSE VALVE ON STANDPIPE
- ⊗ FREESTANDING FIRE DEPARTMENT SIAMESE CONNECTION
- ⊗ FREESTANDING MOUNTED ROOF MANIFOLD
- ⊗ 6" ELECTRIC BELL
- ⊗ DRAWING REFERENCE NOTE - NUMBER
- ⊗ HYDRAULIC CALCULATION NODE - NUMBER/LETTER
- DRY PIPE SYSTEM RISER

DESIGN CRITERIA NFPA-13:

- 1) ALL DESIGN, TESTING AND INSTALLATION TO BE IN ACCORDANCE WITH NFPA-13 2013 EDITION AND THE FLORIDA BUILDING CODE 6TH EDITION.
- 2) LIGHT HAZARD : 0.10 GPM PER SQUARE FEET OVER 1500 SQUARE FEET, 225 SQUARE FEET MAXIMUM HEAD SPACING AND 100 GPM HOSE ALLOWANCE. OCCUPANCIES HAVING CONDITIONS SIMILAR TO OFFICES, RESTROOMS, AND RESTAURANT SEATING.
- 3) ORDINARY HAZARD GROUP 1 : 0.15 GPM PER SQUARE FEET OVER 1500 SQUARE FEET, 130 SQUARE FEET MAXIMUM HEAD SPACING AND 250 GPM HOSE ALLOWANCE. OCCUPANCIES HAVING CONDITIONS SIMILAR TO MECHANICAL ROOMS, ELECTRICAL ROOMS AND KITCHEN SPACES.
- 4) ALL COMBUSTIBLE CONCEALED SPACES (ATTIC) TO BE FULLY PROTECTED BY A DRY PIPE SYSTEM. DESIGN DENSITY TO BE 0.10/ 1500 sq ft, WITH AN AREA INCREASE OF 30% FOR DRY SYSTEM AND AN ADDITIONAL 30% INCREASE FOR ROOF SLOPES OVER 4/12, FOR A TOTAL DESIGN AREA 0.13/ 1500 sq ft.
- 5) ALL SPRINKLER SYSTEMS TO BE MONITORED IN ACCORDANCE WITH NFPA 72.

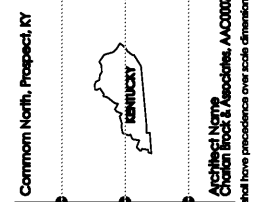
GENERAL NOTES

- A. ALL DESIGN, INSTALLATION AND MATERIALS SHALL MEET THE LATEST EDITIONS OF NFPA CODES AND ALL RELATED CODES UTILIZED BY THE AUTHORITY HAVING JURISDICTION.
- B. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CHANGES IN THE CONTRACT DOCUMENTS THAT MAY BE REQUIRED IN ORDER TO MEET CODES PRIOR TO BID.
- C. COORDINATE WITH OTHER EXISTING AND NEW WORK (INCLUDING MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL) FOR AVAILABLE SPACE AND INSTALLATION REQUIREMENTS, PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CHANGES TO THE CONTRACT DOCUMENTS THAT MAY BE REQUIRED FOR THE WORK TO BE PERFORMED.
- D. FIELD CONDITIONS: THE CONTRACT DOCUMENTS INDICATE THE DESIGN INTENT USING AVAILABLE INFORMATION. THE CONTRACTOR IS TO ADVISE THE ARCHITECT AND ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN. ALSO ADVISE THE ARCHITECT AND ENGINEER IF CODE OR SAFETY CONFLICTS EXIST. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE (PRIOR TO THE BID) TO BECOME FAMILIAR WITH CONDITION AND INSTALLATION DETAILS THAT WILL AFFECT HIS WORK. CHANGES IN THE CONTRACT SUM AT CONTRACT TIME WILL NOT BE ALLOWED FOR FAILURE TO INVESTIGATE FIELD CONDITIONS. ALL WORK IS NEW, UNLESS NOTED OTHERWISE.
- E. SHOP DRAWINGS SHALL BE CAD DETAILED INSTALLATION/COORDINATION DRAWINGS IN ACCORDANCE WITH NFPA-13, CHAPTER 6. INCLUDE TABBED, INDEXED EQUIPMENT SUBMITTALS.
- F. ALL CONTROL VALVES SHALL HAVE TAMPER SWITCHES. OPERATION OF VALVE WILL NOT AFFECT THE OPERATION OF SPRINKLER FLOW SWITCH.
- G. FLOW SWITCHES SHALL BE CONNECTED TO FIRE ALARM SYSTEM AS AN AUTOMATIC INDICATING DEVICE.
- H. ALTHOUGH NOT SHOWN. ALL PIPING TO BE SUPPORTED FROM BUILDING STRUCTURE, IN ACCORDANCE WITH NFPA-13.
- I. ALL ELECTRICAL, CONTROL, AND OR ALARM SYSTEM WIRING TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE SYSTEM TO BE MONITORED IN ACCORDANCE WITH NFPA-72.
- J. SPRINKLER SYSTEMS SHALL BE PROVIDED WITH FLUSHING CONNECTIONS.
- K. SPRINKLER HEADS IN AREAS SUBJECT TO DAMAGE SHALL HAVE HEAD GUARDS. AREAS SUCH AS MECHANICAL ROOMS, ELECTRICAL ROOMS, SHAFTS, ETC.
- L. NO SPRINKLER PIPING SHALL PASS OVER ELECTRICAL PANELS OR SWITCH BOARDS.
- M. FIELD VERIFY PIPE ROUTING AND ACTUAL LENGTHS OF PIPE, PRIOR TO FABRICATION OR INSTALLATION.
- N. SPRINKLER HEADS SHALL BE IN ALIGNMENT WITH EACH OTHER FOR INDIVIDUAL LINE OF SIGHT.
- O. BEFORE ANY SPRINKLER PIPING IS CONCEALED, THE SPRINKLER CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION 48 HOURS IN ADVANCE, SO THAT THEY MAY INSPECT THE SYSTEM PIPING FOR CONFORMANCE WITH CODE REQUIREMENTS.
- P. ALL FIRE PROTECTION PIPING SHALL BE TESTED IN ACCORDANCE WITH NFPA-13.
- Q. COPY OF MATERIAL AND TEST CERTIFICATE, WARRANTY AND INSTRUCTIONS TO THE OWNER.
- R. THIS CONTRACTOR SHALL INSTALL HYDRAULIC PLACARDS ON BUILDING RISERS.
- S. SPARE HEAD CABINET WITH SPRINKLERS OF EACH TYPE PER NFPA-13.
- T. PROVIDE (3) THREE OPERATIONS AND MAINTENANCE MANUALS.

FIRE SPRINKLER SCHEDULE

HEAD TYPE	HEAD TYPE	HAZARD CLASS	ORIFICE INCHES	K FACTOR	TEMP.	FINISH	RESPONSE TIME TYPE
⊗	PENDENT RECESSED	LIGHT OR ORDINARY	1/2"	5.6	155°	WHITE	QUICK
●	PENDENT CONCEALED	FLAT PLATE	1/2"	5.6	155°	MATCH * CEILING	QUICK
⊗	RECESSED PENDENT	RESIDENTIAL	1/2"	4.9	155°	WHITE	QUICK
◀	RECESSED SIDEWALL	RESIDENTIAL	1/2"	4.4	155°	WHITE	QUICK
⊗	DRY PENDENT	LIGHT OR ORDINARY	1/2"	5.6	200°	CHROME	QUICK
⊗	DRY SIDEWALL	LIGHT OR ORDINARY	1/2"	5.6	200°	CHROME	QUICK
○	UPRIGHT BRASS	LIGHT OR ORDINARY	1/2"	5.6	200°	BRASS	QUICK
◀	SIDEWALL	LIGHT OR ORDINARY	1/2"	5.6	200°	BRASS	STANDARD
⊗	DRY FLEX PENDENT	LIGHT OR ORDINARY	1/2"	5.6	155°	WHITE	QUICK
◀	EXT COVERAGE DRY SIDEWALL	LIGHT OR ORDINARY	1/2"	8.0 / 16' x 24'	165°	WHITE	QUICK

* OWNER TO SPECIFY CEILING PLATE FINISH IF OTHER THAN WHITE



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FIRE PROTECTION SCHEDULES AND DETAILS
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