

FIRE PROTECTION DESIGN CRITERIA						
CLASSIFICATION	DENSITY	AREA OF COVERAGE	COVERAGE PER SPRINKLER	DISCHARGE TEMPERATURE	MAXIMUM SPACING	HOSE STREAM ALLOWANCE
LIGHT HAZARD	0.10 GPM/ SQ. FT.	1500 SQ. FT.	225 SQ. FT.	135°F	15 FT.	100 GPM
ORDINARY HAZARD GROUP 2	0.20 GPM/ SQ. FT.	1500 SQ. FT.	130 SQ. FT.	165°F	12 FT.	250 GPM
						30 MIN

SPRINKLER LEGEND	
SYMBOL	DESCRIPTION
AF	ABOVE FINISHED FLOOR
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FS	FLOW SWITCH
TS	TAMPER SWITCH
SP	SPRINKLER PIPE
F	FIRE MAIN
AG	ABOVE GROUND SPRINKLER PIPING
TV	CONTROL VALVE WITH TAMPER SWITCH
HS	HORIZONTAL SIDEWALL SPRINKLER HEAD
CS	CONCEALED PENDANT SPRINKLER HEAD
US	UPRIGHT SPRINKLER HEAD
USC	UPRIGHT SPRINKLER HEAD WITH PROTECTIVE CASE

SCALE:  
1. INSTALL SPRINKLERS IN ACCORDANCE WITH NFPA 13R, 13, SPRINKLER LISTINGS AND MANUFACTURER'S RECOMMENDATIONS.

SPRINKLER HEAD SCHEDULE					
TAG	MFGR	MODEL	K-FACTOR	TEMP RATING	SPRINKLER HEAD TYPE
SP-1	TYCO	TY3531	5.6	135°F	CONCEALED PENDANT
SP-2	TYCO	TY3321	5.6	135°F	HORIZONTAL SIDEWALL
SP-3	TYCO	TY3151	5.6	135°F	UPRIGHT (PROVIDE GUARD IN MECHANICAL ROOMS)
SP-5	TYCO	TY3255	5.6	135°F	DRY PENDANT SPRINKLER HEAD
SP-6	TYCO	TY3332	5.6	165°F	EXTENDED COVERAGE HORIZONTAL SIDEWALL

- ### FIRE PROTECTION NOTES
- THE CONTRACTOR SHALL PROVIDE A COMPLETE AUTOMATIC SPRINKLER SYSTEM AS INDICATED ON THE FLOOR PLANS. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED.
  - SPRINKLER CONTRACTOR SHALL INSTALL A WET PIPE SPRINKLER SYSTEM IN ENTIRE PROJECT AREA.
  - SPRINKLER CONTRACTOR SHALL PROVIDE TURNKEY SERVICE, DESIGN, INSTALLATION AND CERTIFICATION. PROVIDE ALL ADDITIONAL DRAWINGS, SPECIFICATIONS, AND CALCULATIONS AS MAY BE REQUIRED BY ALL CODES AND AUTHORITIES HAVING JURISDICTION. ALL WORK SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER.
  - THE SPRINKLER SYSTEM SHALL BE DESIGNED, CALCULATED, AND INSTALLED IN ACCORDANCE WITH NFPA 13 LATEST EDITION AND LOCAL JURISDICTION.
  - SPRINKLER CONTRACTOR SHALL OBTAIN AND PAY FOR ALL STATE AND LOCAL PERMITS REQUIRED FOR SCOPE OF WORK AND SCHEDULE ANY INSPECTIONS REQUIRED.
  - THE CONTRACTOR SHALL GUARANTEE INSTALLATION AGAINST DEFECTS IN WORKMANSHIP, EQUIPMENT AND MATERIAL FURNISHED ON PROJECT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
  - SUBMIT SHOP DRAWINGS, CALCULATIONS AND MANUFACTURER'S LITERATURE ON ALL MATERIALS AS REQUIRED TO THE ARCHITECT OR OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
  - SUBMIT DEFERRED SET OF SHOP DRAWINGS AND CALCULATIONS TO THE STATE, ONE SET TO THE LOCAL FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION.
  - THE CONTRACTOR SHALL VISIT THE JOB SITE AND EXAMINE THE PREMISES AT AND ADJACENT TO THE PROPOSED WORK. VERIFY PIPE SIZES, LOCATION AND SUITABILITY FOR CONNECTION TO THE NEW SYSTEM PRIOR TO BID.
  - SPRINKLER CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY POTENTIAL COORDINATION ISSUES AND COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
  - SPRINKLER CONTRACTOR SHALL PROVIDE STAINLESS STEEL FLEXIBLE CONNECTIONS AT EACH SPRINKLER HEAD CONNECTION AT LAY IN CEILING.
  - DRAWINGS ARE DIAGRAMMATIC AND INTEND TO SHOW APPROXIMATE LOCATIONS. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND COORDINATE WITH OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. INSTALL ALL WORK WITHOUT CONFLICT WITH OTHER TRADES AND MAKE MINOR ALTERATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.
  - THE SPRINKLER SYSTEM SHALL BE INSTALLED BY A FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR WITH A VALID CERTIFICATE OF REGISTRATION ISSUED BY THE AUTHORITY HAVING JURISDICTION.
  - THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC. OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO PURCHASING EQUIPMENT. ALL EQUIPMENT SHALL BE U.L. LISTED AND NEMA APPROVED. THE CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR THE QUANTITIES AND LOCATIONS OF FLOW SWITCH AND TAMPER SWITCHES.
  - MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL PANELS AND 1'-0" ON EITHER SIDE OF THE ELECTRICAL PANELS TO STRUCTURE. ALL PIPING SHALL BE ROUTED AROUND THIS AREA.
  - ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH NFPA 13 AND STATE AND LOCAL REQUIREMENTS. SUPPORTS SHALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR STATIC AND OPERATIONAL CONDITIONS OF THE VARIOUS SYSTEMS, AND SHALL NOT BE SUBJECT TO ELECTROLYTIC ACTION.
  - ALL SPRINKLER SYSTEM MATERIALS INSTALLED SHALL BE U.L. LISTED AND FACTORY MUTUAL APPROVED FOR FIRE PROTECTION USE.
  - CONTROL VALVES SHALL BE SLOW CLOSING INDICATING VALVES LISTED FOR FIRE PROTECTION USE. EACH CONTROL VALVE SHALL HAVE A SUPERVISORY SWITCH.
  - SPRINKLER PIPING PENETRATING ONE-HOUR OR GREATER RATED FIRE WALLS SHALL BE SLEEVED AND CALKED WITH U.L. LISTED THROUGH PENETRATION FIRE STOP SYSTEM TO MEET U.L. LISTED ASSEMBLY FOR RATINGS OF WALL.
  - SPRINKLER HEADS SHALL BE RELIABLE, CENTRAL, VIKING OR EQUAL.
  - ALL SPRINKLER HEADS LOCATED IN A C.T. CEILING SHALL BE WHITE SEMI-RECESSED PENDANT TYPE WITH TEMPERATURE RATINGS AS CONDITIONS DICTATE. SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES. ASSOCIATED SPRINKLER PIPING SHALL BE RUN IN FURRED SPACES, CHASES, ETC. TO COMPLETELY CONCEAL ALL PIPING.
  - ALL SPRINKLER HEADS LOCATED IN GYPSUM CEILINGS SHALL BE CHROME-PLATED RECESSED PENDANT TYPE WITH TEMPERATURE RATINGS AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN IN FURRED SPACES, CHASES, ETC., TO COMPLETELY CONCEAL ALL PIPING.
  - ALL SPRINKLER HEADS LOCATED IN WOOD CEILINGS SHALL BE CHROME-PLATED RECESSED PENDANT TYPE WITH TEMPERATURE RATINGS AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN IN FURRED SPACES, CHASES, ETC., TO COMPLETELY CONCEAL ALL PIPING.
  - SPRINKLER HEADS IN AREAS WITHOUT FINISHED CEILINGS SHALL BE BRASS UPRIGHT HEADS WITH TEMPERATURE RATING AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN EXPOSED.
  - THE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF PIPING AND HEADS WITH LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PLUMBING LINES, ETC. AND MAKE MINOR ADJUSTMENTS IN THE SPRINKLER LAYOUT WHERE REQUIRED OR DEEMED NECESSARY BY THE ARCHITECT.
  - THE SPRINKLER CONTRACTOR SHALL OBTAIN A RECENT FLOW TEST FROM THE LOCAL FIRE DEPARTMENT AUTHORITY DONE WITHIN THE LAST SIX MONTHS PRIOR TO INSTALLATION.

- ### FIRE PROTECTION SYSTEM SPECIFICATIONS:
- THE FIRE PROTECTION SUBCONTRACTOR IS RESPONSIBLE FOR CODE COMPLIANCE, RESEARCH, DESIGN, COORDINATION, AND INSTALLATION OF A COMPLETE AND FUNCTIONAL HYDRAULICALLY CALCULATED SPRINKLER SYSTEM THAT MEETS THE APPROVAL OF AND IS IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND REQUIREMENTS OF THE FOLLOWING AND AS FURTHER SPECIFIED PER CURRENT EDITIONS OF NFPA 13, 13R, APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
  - THE DESIGN, MATERIALS, EQUIPMENT, INSTALLATION, INSPECTION, AND TESTING OF THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH THE REQUIRED ADVISORY PROVISIONS OF NFPA 13R AND AUTHORITY HAVING LOCAL JURISDICTION IN BUILDING TYPE I AND TYPE II.
  - ALARM SYSTEM DEVICES INCLUDING ALARM VALVES, FLOW SWITCHES, PRESSURE SWITCHES, TAMPER SWITCHES AND COORDINATION WITH FIRE ALARM AND DETECTION SUBCONTRACTOR.
  - SHOP DRAWINGS AND CALCULATIONS PREPARED AND SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OBTAINING ALL PERMITS AND APPROVALS OF THE FIRE PROTECTION SYSTEM.
  - NFPA 13R "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS IN RESIDENTIAL OCCUPANCIES UP TO AND INCLUDING FOUR STORIES IN HEIGHT."
  - NFPA 25 "STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS."
  - SYSTEM SHALL BE A DESIGN BUILD SYSTEM PER NFPA 13R. COORDINATE ALL LOCAL REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION.
- ### SPRINKLER SYSTEM SPECIFICATIONS:
- PROVIDE THE BUILDING WITH A COMPLETE, APPROVED, OPERATIONAL SPRINKLER SYSTEM.
  - ALL PIPING INSTALLED WHERE SUBJECT TO FREEZING SHALL BE INSULATED.
  - CPVC PIPING LISTED FOR USE IN FIRE SPRINKLER SYSTEMS MAY BE UTILIZED WHERE INSTALLED IN ACCORDANCE WITH THE U.L. LISTING AND APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION. CPVC PIPING MAY ONLY BE INSTALLED IN RESIDENTIAL AND LIGHT HAZARD OCCUPANCIES WHEN THE PIPING IS INSTALLED AND PROTECTED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED REQUIREMENTS. PROVIDE CPVC FITTINGS THAT ARE LISTED WITH THE CPVC PIPING BEING UTILIZED.
- ### SPRINKLER HEAD SPECIFICATIONS:
- SPRINKLER HEADS SHALL BE U.L. LISTED. SPRINKLER HEADS AND ESCUTCHEONS SHALL HAVE A WHITE FINISH UNLESS NOTED OTHERWISE.

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