

### SPRINKLER GENERAL NOTES

- ALL SPRINKLER WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF N.F.P.A.-13 AND ALL LOCAL AUTHORITIES.
- ALL SPRINKLER WORK SHALL COMPLY WITH BUILDING STANDARDS AND REQUIREMENTS.
- ALL SPRINKLER HEADS SHALL BE INSTALLED AT CENTER OF TILE IF CEILING IS PROVIDED.
- GENERAL CONTRACTOR SHALL COORDINATE FINAL FURNITURE/EQUIPMENT HEIGHT ELEVATIONS AND LOCATIONS WITH SPRINKLER INSTALLATION. ENGINEER SHALL BE NOTIFIED WHEN FURNITURE/EQUIPMENT IS LESS THAN 18" TO UNDERSIDE OF CEILING.
- THE SPRINKLER SYSTEMS ARE TO BE HYDROSTATIC TESTED FOR A (1) HOUR MINIMUM AT 200 PSI. PRESSURE AND ARE TO BE WITNESSED BY AUTHORIZED BUILDING PERSONNEL. COORDINATE ALL TESTING WITH BUILDING MANAGER.
- PIPES SIZES SHOWN ARE BASED ON DESIGN PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.
- DRAWING INDICATES SPRINKLER SYSTEM DESIGN ONLY. CONTRACTOR RESPONSIBLE FOR OFFSETS, DROPS AND RISES FOR COORDINATION WITH OTHER TRADES.
- G.C. SHALL BE RESPONSIBLE FOR ALL FINAL TESTS AND INSPECTIONS OF COMPLETED WORK REQUIRED BY THE BUILDING MANAGEMENT PRIOR TO OCCUPANCY OF SPACE.
- ALL SPRINKLER WORK SHALL BE TESTED AND MADE OPERATIONAL PRIOR TO CARPET AND FURNITURE INSTALLATION. G.C. SHALL REPAIR AND/OR REPLACE ALL FINISHES DAMAGED BY DEFECTIVE SPRINKLER WORK AT HIS EXPENSE.
- ALL BURNING, CUTTING, SOLDERING AND WELDING SHALL BE COORDINATED WITH BUILDING FIRE SYSTEMS WITH BUILDING MANAGEMENT, AS REQUIRED.
- G.C. SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND APPROVALS REQUIRED BY BUILDING INSPECTOR AND FIRE MARSHALL IN CONJUNCTION WITH CHANGES TO EXISTING SPRINKLER SYSTEM.
- REFER TO ENGINEERING DRAWINGS FOR SPRINKLER HEADS, LIGHT SENSORS AND FIRE DETECTION DEVICES.
- ALL WORK TO BE DONE DURING THE HOURS DESIGNATED BY OWNER.
- UPON COMPLETION OF ALL SPRINKLER WORK, CONTRACTOR SHALL TEST AND INSPECT ENTIRE SPRINKLER SYSTEM. ENTIRE SYSTEM SHALL BE FULLY OPERATIONAL AND APPROVED IN COMPLIANCE WITH ALL AHJ.
- UPON SUCCESSFUL COMPLETION OF ALL TESTING, CONTRACTOR SHALL PRIME AND PAINT ALL EXPOSED SPRINKLER PIPING. COLOR AND FINISH SHALL BE AS PER ARCHITECT.
- CONTRACTOR SHALL INCLUDE IN HIS BID THE COST TO PROVIDE (5) FIVE ADDITIONAL SPRINKLERS INSTALLED. EXACT LOCATIONS OF THESE SPRINKLER HEADS SHALL BE DETERMINED IN FIELD.
- FOR SPRINKLER WORK DONE IN ACCORDANCE WITH THE REQUIREMENTS OF N.F.P.A.-13, HYDROSTATIC TESTS IN ACCORDANCE WITH REFERENCE STANDARD NFPA 13, AS MODIFIED FOR NEW YORK CITY, ARE NECESSARY.
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND SHALL INSTALL NEW WORK TO CLEAR DUCTWORK AND LIGHTING FIXTURES.
- ALL SPRINKLER WORK SHALL COMPLY WITH BUILDING STANDARDS AND REQUIREMENTS.
- DRAWING INDICATES SPRINKLER SYSTEM DESIGN ONLY. CONTRACTOR RESPONSIBLE FOR OFFSETS, DROPS AND RISES FOR COORDINATION WITH OTHER TRADES.
- PIPES SIZES SHOWN ARE BASED ON SCHEDULE OF PIPE SIZE PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.
- PROVIDE AUXILIARY DRAINS AT TRAPPED SECTIONS OF PIPING AS REQUIRED BY NFPA.
- GENERAL CONTRACTOR SHALL COORDINATE FINAL FURNITURE/ EQUIPMENT HEIGHT ELEVATIONS AND LOCATIONS WITH SPRINKLER INSTALLATION. ENGINEER SHALL BE NOTIFIED WHEN FURNITURE/EQUIPMENT IS LESS THAN 18" TO UNDERSIDE OF CEILING PRIOR TO INSTALLATION.
- COMPOSITE DRAWINGS

CONTRACTOR SHALL BE GIVEN A SEPIA TRANSPARENCIES TO IMPOSE THEIR WORK FOR A COORDINATED ALLOCATION OF SPACE. PROCEDURE SHALL INCLUDE HVAC CONTRACTOR TO INDICATE DUCT WORK, PIPING, STRUCTURAL AND ARCHITECTURAL DETAILS. SEPIAS SHALL BE GIVEN TO PLUMBING, SPRINKLER AND ELECTRICAL TRADES WHO WILL DRAW HIS WORK ON DRAWINGS. HVAC CONTRACTORS SHALL HOLD A COORDINATION MEETING WITH ALL CONTRACTORS TO ELIMINATE INTERFERENCE OR CONFLICTS IN INSTALLING WORK. IF UNABLE TO EACH AGREEMENT ISSUE, ARCHITECT SHALL MAKE BINDING DECISION.

- CONTRACTOR SHALL COORDINATE SPRINKLER MAIN AND BRANCHES WITH NEW CONSTRUCTION TO AVOID CONFLICTS WITH CEILING HEIGHTS, DUCTWORK, LIGHTING FIXTURES, BEAMS. CONTRACTOR TO ADJUST PIPING ACCORDINGLY TO ACCOMMODATE NEW CONSTRUCTION.
- WET SPRINKLER SYSTEM SUBJECTED TO FREEZING SHOULD COMPLY WITH NYC BC 903.3 AND NFPA 13 SEC. 8.16.4.1.

### BUILDING DEPARTMENT SPRINKLER NOTES

- THE INSTALLATION, COMPONENTS, SIZING, SPACING, CLEARANCES, POSITION AND TYPE OF SYSTEMS SHALL CONFORM TO THE 2014 NEW YORK CITY BUILDING CODE APPENDIX Q, SECTION BC Q102, SECTION BC Q103 AND SECTION BC903.
- ONLY APPROVED MATERIALS SHALL BE USED AS PER CHAPTER 6 OF APPENDIX Q, SECTION BCQ102
- DIRECT CONNECTION OF SPRINKLERS TO THE PUBLIC WATER SYSTEM SHALL CONFORM TO SECTION BCQ102.1 SEE 15.2.1 AND 15.1.1 (d).
- SPRINKLER SHALL BE PROTECTED AGAINST FREEZING AND INJURY AS PER APPENDIX Q BCQ102, SEC 8.15.3 AND 6.2.8.
- INSPECTION AND TESTS OF SPRINKLERS SHALL BE CONDUCTED AS SEC. 901.5 AND APPENDIX Q, SEC. BCQ102, CH. 16.
- THE OCCUPANCY OF THE AREAS TO BE SPRINKLERED IN ACCORDANCE WITH SECTION 5.2 AND A.5.2 OF APPENDIX Q SECTION BCQ102.
- WATER SUPPLY TEST PIPES AND GAUGES SHALL BE PROVIDED AS PER SECTION 8.16.1 AND 8.16.4 OF APPENDIX Q, SECTION BCQ102.
- PIPING, FITTINGS, SPECIFICATIONS, PIPE SCHEDULES, SYSTEM TEST PIPES, PROTECTION AGAINST CORROSION, DAMAGE, VALVES, HANGERS, SPRINKLERS GUARDS AND SHIELDS SHALL BE AS PER APPENDIX Q SECTION BCQ102, CHAPTERS 6 AND 9.
- STOCK OF EXTRA SPRINKLERS WILL BE FURNISHED AS PER SECTION 6.2.9 APPENDIX Q, SECTION BCQ102 (REQUIRED FOR EACH TEMPERATURE RATING).
- SPRINKLER ALARM SHALL BE IN ACCORDANCE WITH SECTION 8.16.1 OF APPENDIX Q, SECTION BCQ102.

- SPACING, LOCATION AND POSITION OF SPRINKLER WILL BE AS PER SECTION 8 OF APPENDIX Q, SECTION BCQ102.
- ALL BLIND SPACES EXCEEDING 6" IN WIDTH OR DEPTH WHICH CONTAIN COMBUSTIBLE MATERIAL WILL BE SPRINKLERED.
- ALL PIPE PASSING THROUGH WALLS WILL COMPLY WITH SECTION BC712.
- THERE IS NO HIGH PILED STORAGE AS DEFINED IN SECTION 3-3.12 OF APPENDIX Q, SECTION BC Q102
- DISTANCE OF SPRINKLERS FROM HEAT SOURCE SHALL BE IN AS PER TABLES 9.3.2.5 (a) AND 8.3.2.5 (b).
- AS PER SECTION BC903.1.2 PROVIDE DEPARTMENT OF WATER SUPPLY LETTER WITH FLOW TEST DATE IF THERE IS A DIRECT CONNECTION TO THE STREET WATER SUPPLY.
- THIS APPLICATION IS NOT FILED AS A RESULT OF ACTION BY THE FIRE COMMISSIONER AS AUTHORIZED BY BS & A TO MODIFY THE CERTIFICATE OF OCCUPANCY NOR IS SUCH ACTION PENDING.
- ALL VALVES SHALL BE IDENTIFIED AS REQUIRED BY SECTION 6.7.4. OF APPENDIX Q, SECTION BCQ102.
- DRAINAGE SHALL CONFORM TO SECTION 8.15.2 OF APPENDIX Q, SECTION BCQ102.
- A ONE PIECE REDUCING FITTING OF GOOD DESIGN SHOULD BE USED WHEREVER A CHANGE IS MADE IN THE SIZE OF PIPE, AS PER SECTION 6.4.6 OF APPENDIX Q, SECTION BCQ102.
- ALL VALVES ON CONNECTIONS TO WATER SUPPLIES TO SPRINKLER SHALL BE APPROVED O.S. & Y. OR APPROVED INDICATOR TYPE.
- DRAIN VALVES AND TEST VALVES SHALL BE APPROVED TYPE AS PER 6.7.3 OF APPENDIX Q, SECTION BCQ102.
- HANGERS SHOULD BE SUPPORTED BY WROUGHT IRON U TYPE OR APPROVED ADJUSTABLE HANGERS. HANGERS SHALL BE OF THE TYPE APPROVED FOR USE WITH THE PIPE OR TUBE INVOLVED, AS PER CHAPTER 9, OF APPENDIX Q, SECTION BCQ102.
- PROVISIONS SHOULD BE MADE TO FACILITATE FLUSHING SYSTEM PIPING BY PROVIDING FLUSHING CONNECTIONS CONSISTING OF A CAPPED NIPPLE 4" LONG ON END OF A CROSS MAIN AS PER SECTION 8.14.16 OF APPENDIX Q, SECTION BCQ102.
- SPRINKLER SHALL BE AN APPROVED TYPE AS PER SECTION 8.3 OF APPENDIX Q, SECTION BCQ102.
- TEMPERATURE RATING SHALL COMPLY WITH SECTION 8.3.2 OF APPENDIX Q, SECTION BCQ102.
- 18" MINIMUM CLEARANCE TO BELOW SPRINKLER DEFLECTOR AS PER SECTION 8.5.6. OF APPENDIX Q, SECTION BCQ102.
- SPACING AND LOCATION OF SPRINKLERS SHALL COMPLY WITH CHAPTER 8 OF APPENDIX Q, SECTION BCQ102.
- SPRINKLER SYSTEM COMPLIES WITH NFPA 13 AS MODIFIED BY APPENDIX Q, SECTION BCQ102.
- SOURCES OF WATER SUPPLY FOR SPRINKLER SYSTEMS AS PER CHAPTER 15 OF APPENDIX Q, SECTION BCQ102 AND AS PER CHAPTER 8 OF APPENDIX Q, SECTION BCQ103.
- PIPE SCHEDULE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION 14.5 OF APPENDIX Q, SECTION BCQ102.
- HYDRAULICALLY DESIGNED SYSTEMS SHALL BE IN ACCORDANCE WITH CHAPTER 14 OF APPENDIX Q, SECTION BCQ102.
- MINIMUM BRANCH PIPE SIZE TO BE ONE INCH (1").
- THIS APPLICATION IS MADE ONLY FOR WORK INDICATED ON THE SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- PAINTING FOR DEDICATED SPRINKLER PIPING AND VALVES HANDLES SHOULD BE AS PER NYC BC SECTION 903.6.

### BUILDING DEPARTMENT STANDPIPE NOTES

- THE COMPLETE STANDPIPE SYSTEM COMPLY WITH THE FULL REQUIREMENTS OF N.Y.C. BUILDING CODE SEC. 905, APPENDIX Q AND NFPA 14-2007.
- STANDPIPE SYSTEM COMPONENTS AND HARDWARE SHALL BE IN ACCORDANCE WITH CHAPTER 4 OF NFPA 14-2007 AND APPENDIX Q OF NYC BUILDING CODE.
- THE LOCATION OF FIRE DEPARTMENT HOSE CONNECTIONS SHALL BE APPROVED BY THE FIRE COMMISSIONER PER SEC 905.1 OF NYC BUILDING CODE.
- THE INSTALLATION COMPONENTS, SIZING, LOCATION AND TYPE OF SYSTEMS SHALL CONFORM TO CHAPTER 9 & APPENDIX Q SECTION BC 105 OF 2014 NEW YORK CITY BUILDING CODE.
- INSTALLATION OF STANDPIPE SYSTEMS SHALL COMPLY WITH THE SPECIAL INSPECTION REQUIREMENTS OF CHAPTER 17 OF NYC BUILDING CODE PER SEC 905.1.
- SIAMSE SHALL BE 5"x3"x3" ON 6" OR LARGER SUPPLY, 4" ON 4" AND SMALLER SUPPLY FROM SIAMSE CONNECTION FIRE STANDPIPE AS PER CHAPTER 4.8 OF NFPA 14, 2007 AND PARA. 4.8.2 OF APPENDIX Q.
- SIAMSE SHALL BE LOCATED 18" TO 36" ABOVE FINAL GRADE AND BE PROVIDED WITH APPROVED METAL "STANDPIPE" SIGN.
- SIAMSE CHECK VALVE ON HORIZONTAL LOW POINT SHALL HAVE APPROVED TYPE 3/4" AUTOMATIC BALL DRIP (ABD) PER SECTION BCQ105-PARA 4.8.2.2 OF APPENDIX Q.
- HOSE SHALL BE "FLEX-LINE" UNLINED LINEN HOSE AS PER SECTION 4.6.2 OF NFPA 14-2007.
- HOSE VALVES SHALL BE APPROVED TYPE 2-1/2" ANGLE GLOBE VALVE LOCATED NOT MORE THAN SIX FEET AND NOT LESS THAN FIVE FEET FLOOR OR STAIR LANDING.
- HOSE RACKS SHALL BE APPROVED TYPE, AS PER SECTION 4.6.3 OF NFPA 14-2007.
- COUPLING AND NOZZLES SHALL BE APPROVED TYPE, AS PER SECTION BCQ105-PARA 4.8.2 OF APPENDIX Q.
- APPROVED 3-WAY MANIFOLD WILL BE LOCATED ABOVE ROOF AS PER SECTION 7.3.2.2 OF APPENDIX Q. IF AREA IS NOT HEATED A CONTROL VALVE AND AUTOMATIC BALL DRIP IN HEATED SPACE BELOW WILL BE PROVIDED.
- PIPE AND FITTINGS FOR STANDPIPE WILL BE ACCORDING TO SECTION BCQ105-PARA 4.2.2 OF APPENDIX Q. ALL PIPE AND FITTINGS AS APPROVED BY BOARD OF STANDPIPES AND APPEALS.
- SUPPORTS WILL COMPLY WITH CHAPTER 6.4 OF NFPA 14-2007.
- TEST SHALL BE COMPLY WITH 1701.22 OF NEW YORK CITY BUILDING CODE.
- FROST PROTECTION TO BE PROVIDED AS PER BC Q105.1 6.1.2.3.1.
- RISER LOCATION TO COMPLY WITH PARA 905.4, 905.5, 905.6 OF NEW YORK CITY BUILDING CODE.

- INSTALL RISER CONTROL VALVES AS PER SECTION BCQ105-PARA 4.5.1 OF APPENDIX Q.
- FIRE PUMP IF REQUIRED, SHALL BE INSTALLED AS PER CHAPTER 9 OF APPENDIX Q.
- ALL DEVICES USED SHALL BEAR MANUFACTURER'S NAME AND NUMBER OF APPROVAL.
- CONTROL VALVES SHALL BE INDICATED BY SIGNS AND ARROWS. VALVES INSTALLED HIGHER THAN 7'-0" ABOVE FLOOR SHALL BE MADE ACCESSIBLE BY MEANS OF APPROVED IRON LADDERS.
- VALVES SHALL BE SEALED OPEN BY MEANS OF HEAVY CHAIN OR APPROVED TYPE LOCKS.
- AN ELEVATOR SHALL BE MAINTAINED AT ALL TIMES FOR FIRE DEPARTMENT.
- THE COMPLETE STANDPIPE SYSTEM SHALL COMPLY WITH CHAPTER 9 OF NEW YORK CITY BUILDING CODE.
- ALL BRANCH LINES TO HOSE RACKS SHALL BE IN ACCORDANCE WITH PARA 7.6 OF NFPA 14-2007. 2-1/2" BRANCH SHALL NOT EXCEED 4 FEET.
- PRESSURE REDUCING VALVES SHALL COMPLY WITH PARA 7.9.4.2.1 OF APPENDIX Q.
- CONSTRUCTION DOCUMENTS FOR STANDPIPE SYSTEMS SHALL CONTAIN PLANS THAT INCLUDE THE INFORMATION AND DATA LISTED IN SEC. 905.1.1 OF NYC BUILDING CODE.
- STANDPIPE SYSTEMS ARE PERMITTED TO BE COMBINED WITH AUTOMATIC SPRINKLER SYSTEMS. SEC. 905.3 OF NYC BUILDING CODE.
- THE LOCATION OF CLASS I STANDPIPE HOSE CONNECTION SHALL COMPLY WITH SEC. 905.4 OF NYC BUILDING CODE.
- WHERE THE MOST REMOTE PORTION OF A FLOOR OR STORY IS MORE THAN 150 FEET FROM A HOSE CONNECTION, ADDITIONAL HOSE CONNECTIONS SHALL BE PROVIDED IN APPROVED LOCATIONS, SEC. 905.4.
- CLASS I STANDPIPE HOSE CONNECTIONS SHALL BE PROVIDED IN ALL LOCATIONS PER SEC. 905.4 OF NYC BUILDING CODE.
- PROTECTION OF RISERS AND LATERALS OF CLASS I STANDPIPE SYSTEM SHALL COMPLY WITH SEC. 905.4.1 OF NYC BUILDING CODE.
- CLASS II STANDPIPE HOSE CONNECTIONS SHALL BE ACCESSIBLE AND LOCATED SO THAT ALL PORTIONS OF THE BUILDING ARE WITHIN 30 FEET OF A NOZZLE ATTACHED TO 125 FEET OF HOSE AS PER SEC 905.5 AS MODIFIED BY APPENDIX Q.
- IN FULLY SPRINKLERED BUILDINGS HAVING A COMBINED STANDPIPE SYSTEM THAT IS HYDRAULICALLY CALCULATED, THE MINIMUM STANDPIPE SIZE IN BUILDINGS WITH FLOOR HEIGHTS LESS THAN 150 FT. ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS SHALL BE 4 IN. SEC. 7.6.3 OF APPENDIX Q.
- CLASS III STANDPIPE SYSTEMS SHALL HAVE HOSE CONNECTIONS LOCATED AS REQUIRED FOR CLASS I STANDPIPES IN SEC. 905.4 AND SHALL HAVE CLASS II HOSE CONNECTIONS AS REQUIRED IN SEC. 905.8.
- CABINETS CONTAINING FIRE-FIGHTING EQUIPMENT SUCH AS STANDPIPES, FIRE HOSES, FIRE EXTINGUISHERS OR FIRE DEPARTMENT VALVES SHALL NOT BE BLOCKED FROM USE OR OBSCURED FROM VIEW AS PER SEC 905.7.
- STANDPIPE SYSTEMS ARE REQUIRED DURING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS SHALL BE PROVIDED IN ACCORDANCE WITH SEC. 3303.8 OF NYC BUILDING CODE. 21. CLASS II STANDPIPE SYSTEM PROVIDES 1-1/2" (38MM) HOSE STATIONS TO SUPPLY WATER FOR USE PRIMARILY BY THE BUILDING OCCUPANTS OR BY THE FIRE DEPARTMENT DURING INITIAL RESPONSE. CLASS II STANDPIPE SYSTEMS ARE PERMITTED FOR HIGH PILE AND RACK STORAGE OCCUPANCIES ONLY. SEC. 3.3.2.2 OF APPENDIX Q.
- FITTINGS SHALL BE EXTRA-HEAVY PATTERN WHERE PRESSURES EXCEED 175 PSI (12.1 BAR). SEC. 4.3.3 OF NFPA 14-2007.
- PROTECTION OF STANDPIPE SYSTEM WHERE A STANDPIPE OR LATERAL PIPE THAT IS NORMALLY FILLED WITH WATER PASSES THROUGH AN AREA SUBJECT TO FREEZING TEMPERATURES IT SHALL BE PROTECTED TO MAINTAIN THE TEMPERATURE OF THE WATER IN THE PIPING BETWEEN 40°F AND 120°F (4.4°C AND 48.9°C). SEC. 6.1.2.3 OF NFPA 14-2007.
- FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED NOT LESS THAN 18 IN. NOR MORE THAN 36 IN. ABOVE THE LEVEL OF THE ADJOINING GROUND, SIDEWALK OR GRADE SURFACE. SEC. 6.3.6 OF NFPA 14-2007.
- THE MAXIMUM PRESSURE AT ANY POINT IN THE SYSTEM AT ANY TIME SHALL NOT EXCEED 350 PSI (24.1 BAR). SEC. 7.2 OF NFPA 14-2007.
- BRANCH LINE SHALL BE SIZED BASED ON THE HYDRAULIC CRITERIA ESTABLISHED IN SEC. 7.8 & 7.10 BUT NOT LESS THAN 2-1/2" SEC. 7.6.4 OF NFPA 14-2007.
- HYDRAULICALLY DESIGNED STANDPIPE SYSTEMS SHALL BE DESIGNED TO PROVIDE THE WATER FLOW RATE AT A MINIMUM RESIDUAL PRESSURE OF 65 PSI AT THE OUTLET OF THE HYDRAULICALLY MOST REMOTE 2-1/2" & 1-1/2" HOSE CONNECTION. SEC.7.8.1 OF BCQ105, APPENDIX Q OF N.Y.C. BUILDING CODE & SEC.7.8.1.1 OF NEC 14-2007.
- HOSE CONNECTIONS AND HOSE STATIONS SHALL BE UNOBSTRUCTED AND SHALL BE LOCATED NOT LESS THAN 3 FT. OR MORE THAN 5 FT. ABOVE THE FLOOR. SEC. 7.3.1 OF NFPA 14-2007.
- AT THE TOP OF THE HIGHEST RISER THERE SHALL BE PROVIDED ABOVE THE MAIN FLOOR LEVEL A THREE WAY MANIFOLD EQUIPPED WITH THREE 2-1/2" HOSE VALVE WITH HOSE VALVE CAPS. SEC. 7.3.2.2 OF APPENDIX Q.
- WHERE THE RESIDUAL PRESSURE AT A 1-1/2" OUTLET ON A HOSE CONNECTION EXCEED 100 PSI, AN APPROVED PRESSURE RESTRICTED DEVICE SHALL BE PROVIDED. SEC. 7.8.3.1 OF NFPA 14-2007.
- FOR CLASS I AND CLASS III SYSTEMS THE MINIMUM FLOW RATE FOR THE HYDRAULICALLY MOST REMOTE STANDPIPE SHALL BE 500 GPM SEC. 7.10.1.1.1 OF NFPA 14-2007.
- WHERE A HORIZONTAL STANDPIPE ON A CLASS I AND CLASS III SYSTEM SUPPLIES THREE OR MORE HOSE CONNECTIONS ON ANY FLOOR, THE MINIMUM FLOW RATE FOR THE HYDRAULICALLY MOST DEMANDING HORIZONTAL STANDPIPE SHALL BE 750 GPM. 7.10.1.1.2 OF NFPA 14-2007.
- THE MINIMUM FLOW RATE FOR ADDITIONAL STANDPIPES SHALL BE 250 GPM PER STANDPIPE WITH THE TOTAL NOT TO EXCEED 1250 GPM OR 1000 GPM FOR BUILDINGS SPRINKLERED THROUGHOUT. SEC. 7.10.1.1.3 OF NFPA 14-2007.
- CLASS I AND CLASS III STANDPIPES IN BUILDINGS WITH FLOOR HEIGHTS LESS THAN 150 FT. ABOVE GRADE PLANE SHALL BE AT LEAST 4 INCHES IN SIZE. STANDPIPES IN BUILDINGS WITH FLOOR HEIGHTS GREATER THAN 150 FT ABOVE GRADE PLANE SHALL BE NO LESS THAN 6 INCHES IN DIAMETER. SEC. 7.6.1 OF APPENDIX Q.
- VALVES CONTROLLING WATER SUPPLIES SHALL BE SUPERVISED IN THE OPEN POSITION SO THAT A CHANGE IN THE NORMAL POSITION OF THE VALVE WILL GENERATE A SUPERVISORY SIGNAL AT THE SUPERVISING STATION REQUIRED BY SECTION 903.4. WHERE A FIRE ALARM SYSTEM IS PROVIDED, A SIGNAL SHALL ALSO BE TRANSMITTED TO THE CONTROL UNIT.
- THE STANDPIPE SYSTEMS ARE TO BE HYDROSTATIC TESTED FOR A (1) HOUR MINIMUM AT 300 PSI PRESSURE AS PER NFPA 14 MODIFIED UNDER NYC BC APPENDIX Q AND ARE TO BE WITNESSED BY AUTHORIZED BUILDING PERSONNEL. COORDINATE ALL TESTING WITH BUILDING MANAGER.

### SPRINKLER DRAWING LIST

SP-001.00	SPRINKLER SYMBOLS, ABBREVIATIONS, NOTES, PLOT PLAN & RISER DIAGRAM
SP-002.00	SPRINKLER SCHEDULE, NOTES & SPECIFICATIONS
SP-101.00	SPRINKLER PLAN - FIRST & SECOND FLOOR
SP-501.00	SPRINKLER DETAILS

### SPACING BETWEEN SPRINKLER HEADS

LIGHT HAZARD: 15' MAX.  
ORDINARY HAZARD: 15' MAX

NOTE: MAXIMUM DISTANCE BETWEEN SPRINKLER HEADS & WALLS IS 1/2 THE DISTANCE BETWEEN HEADS.

### PROTECTION AREA OF SPRINKLER HEADS

LIGHT HAZARD : 225 SQ. FT.  
ORDINARY HAZARD : 130 SQ. FT.

### SPRINKLER NOTES:

- AS PER NFPA 13,
- 6.9.2 BATHROOMS: SPRINKLERS SHALL NOT BE REQUIRED IN BATHROOMS WHERE THE BATHROOM AREA DOES NOT EXCEED 55 FT<sup>2</sup>.
  - 6.9.3 CLOSETS: SPRINKLERS SHALL NOT BE REQUIRED IN CLOTHES CLOSETS, LINEN CLOSETS, AND PANTRIES THAT MEET ALL OF THE FOLLOWING CONDITIONS:
    - THE AREA OF THE SPACE DOES NOT EXCEED 24 SQ. FT.
    - THE LEAST DIMENSION DOES NOT EXCEED 3 FT.
    - THE WALLS AND CEILING ARE SURFACED WITH NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS AS DEFINED IN NFPA 220, STANDARD ON TYPES OF BUILDING CONSTRUCTION.

### DESIGN CRITERIA SUMMARY:

HYDRAULIC CALCULATIONS FOR RESTAURANT SERVING AREA BASED ON THE FOLLOWING:

OCCUPANCY: ORDINARY I  
MINIMUM DESIGN DENSITY: 0.15 GPM/SQ. FT.  
DESIGN AREA OF APPLICATION: 1500 SQ. FT.

### NOTE:

DESIGN AREA OF APPLICATION HAS BEEN REDUCED TO 1000 SQ.FT. AS PER AREA REDUCTION METHOD BASED ON NFPA 13, SECTION 11.2.3.2.3.1 MODIFIED BY NYC BC 2014 APPENDIX Q.

### SPECIAL INSPECTION SPRINKLER NOTE:

- SPECIAL INSPECTION OF SPRINKLER SYSTEM TO BE PERFORMED IN ACCORDANCE WITH NY CITY BUILDING CODE SECTION BC 1704-23
- FIRE RESISTANT PENETRATION & JOINTS IN ACCORDANCE WITH NY CITY BUILDING CODE BC-1704.27
- POST INSTALLATION ANCHOR INSPECTION TO BE DONE IN ACCORDANCE WITH NY CITY BUILDING CODE BC-1704.32

### NOTES AS PER TECHNICAL BULLETIN #2010-029:

- PROPOSED HYDRAULIC DEMAND OF THE SYSTEM FOR WORK FILED UNDER THIS APPLICATION IS EQUAL TO, OR LESS THAN THE HYDRAULIC DEMAND OF THE EXISTING SYSTEM.

### SPRINKLER LEGEND

EX.SP	EXISTING SPRINKLER RISER PIPING TO REMAIN
SP	NEW SPRINKLER PIPING
●	CONCEALED SPRINKLER HEAD (NEW)
○	PENDANT SPRINKLER HEAD (NEW)
●(D)	DRY PENDENT SPRINKLER HEAD (NEW)
⊕	POINT OF CONNECTION
⊕(E)	EXISTING FIRE HOSE
⊕	NEW FIRE HOSE
SD	STANDPIPE PIPING
○	PIPE UP
⊖	PIPE DOWN

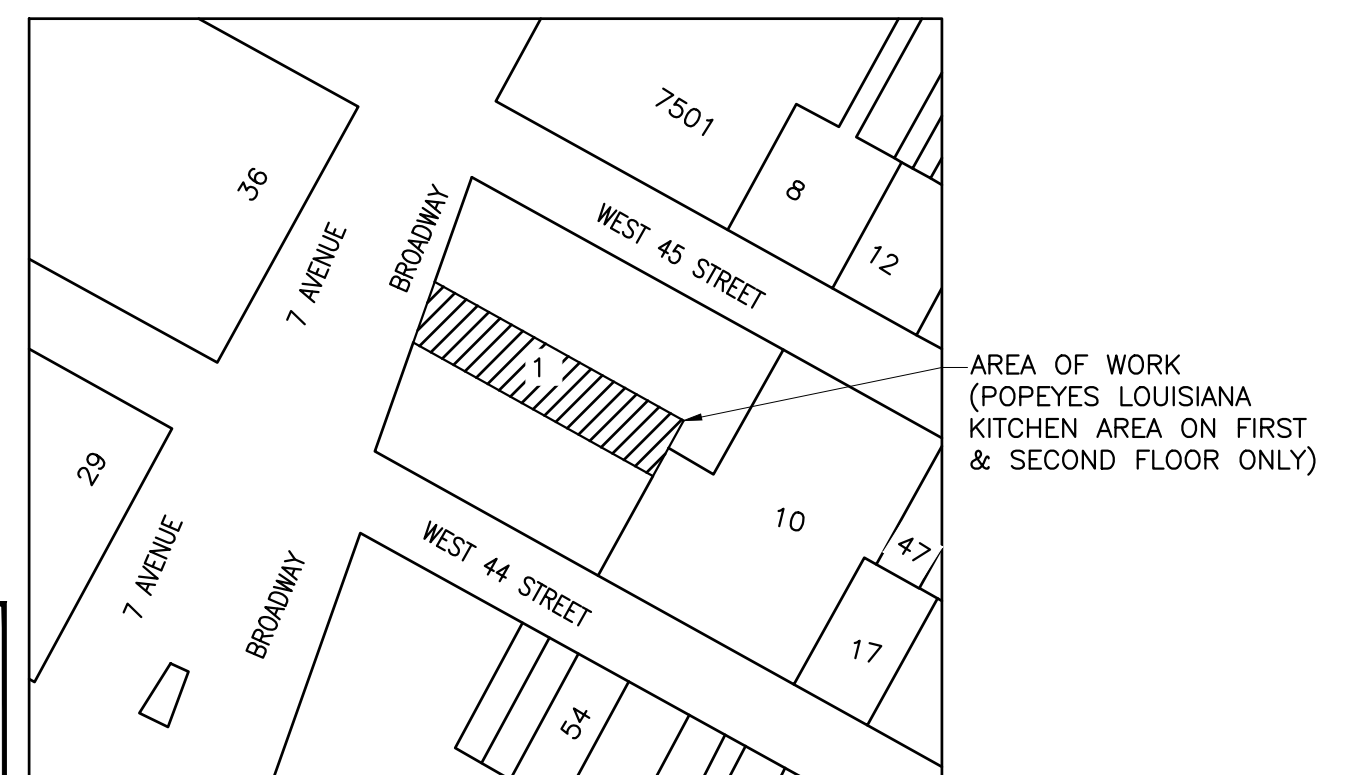
### ECC NOTES:

- 2020 NYCECC COMPLIANCE: NEW YORK CITY CONSERVATION CODE. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS EXEMPT FROM THE NYCECC IN ACCORDANCE WITH ONE OF THE FOLLOWING: FA, FP, SD, SP, FS, EQ, CC, OT/BPP, OT/FPP

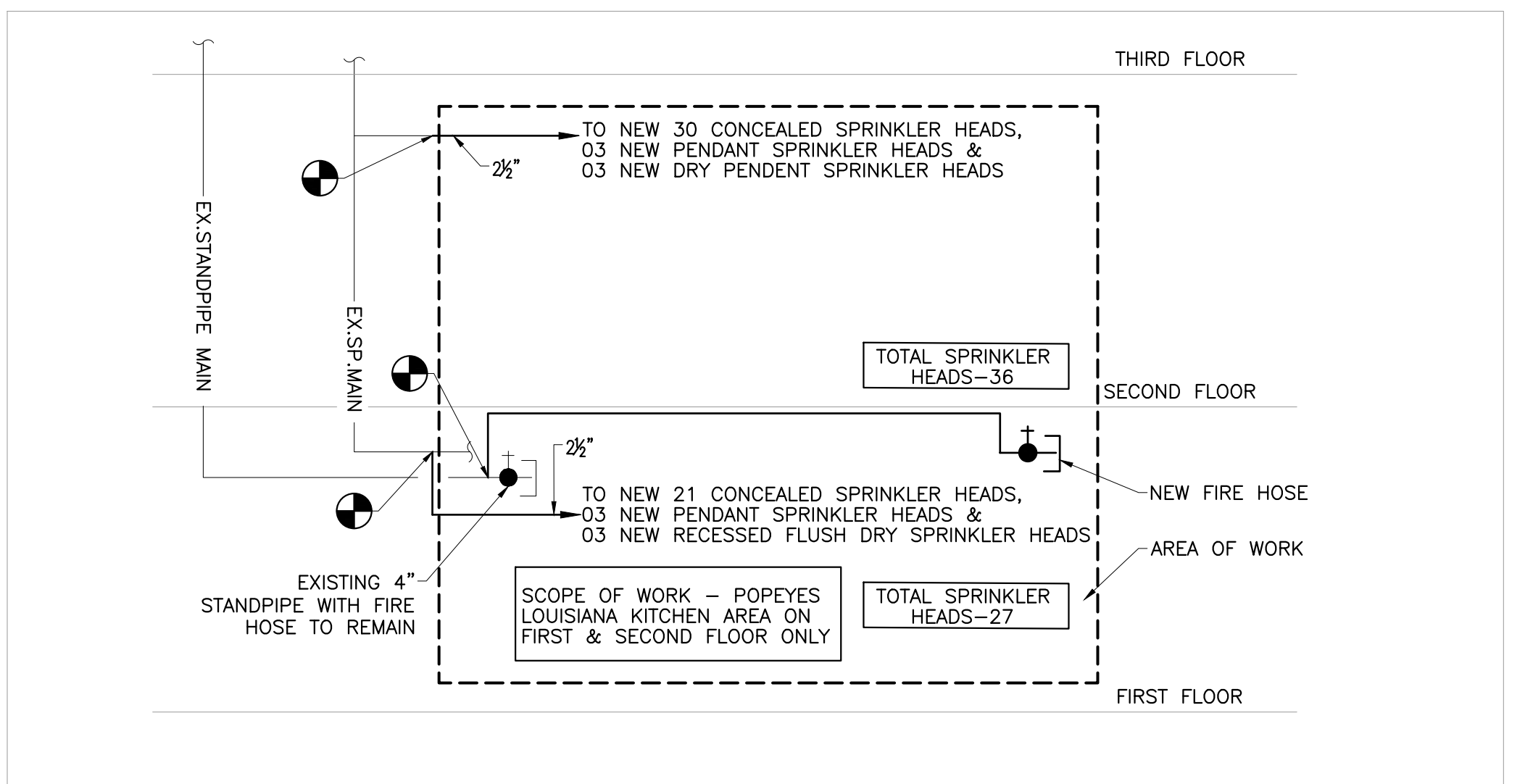
### GENERAL NOTES:

- FOR SPRINKLER WORK ONLY.
- ALL SPRINKLER HEADS MEET DESIGN CRITERIA PER COVERAGE.

### KEY PLAN:



1530 BROADWAY, MANHATTAN, NY, 10036  
BLOCK: 997  
LOT: 01  
ZONE: C6-7T  
MAP: 8D  
NO OF BUILDINGS: 1  
NO OF FLOORS: 4  
SCOPE OF WORK : POPEYES LOUISIANA KITCHEN AREA ON FIRST & SECOND FLOOR ONLY

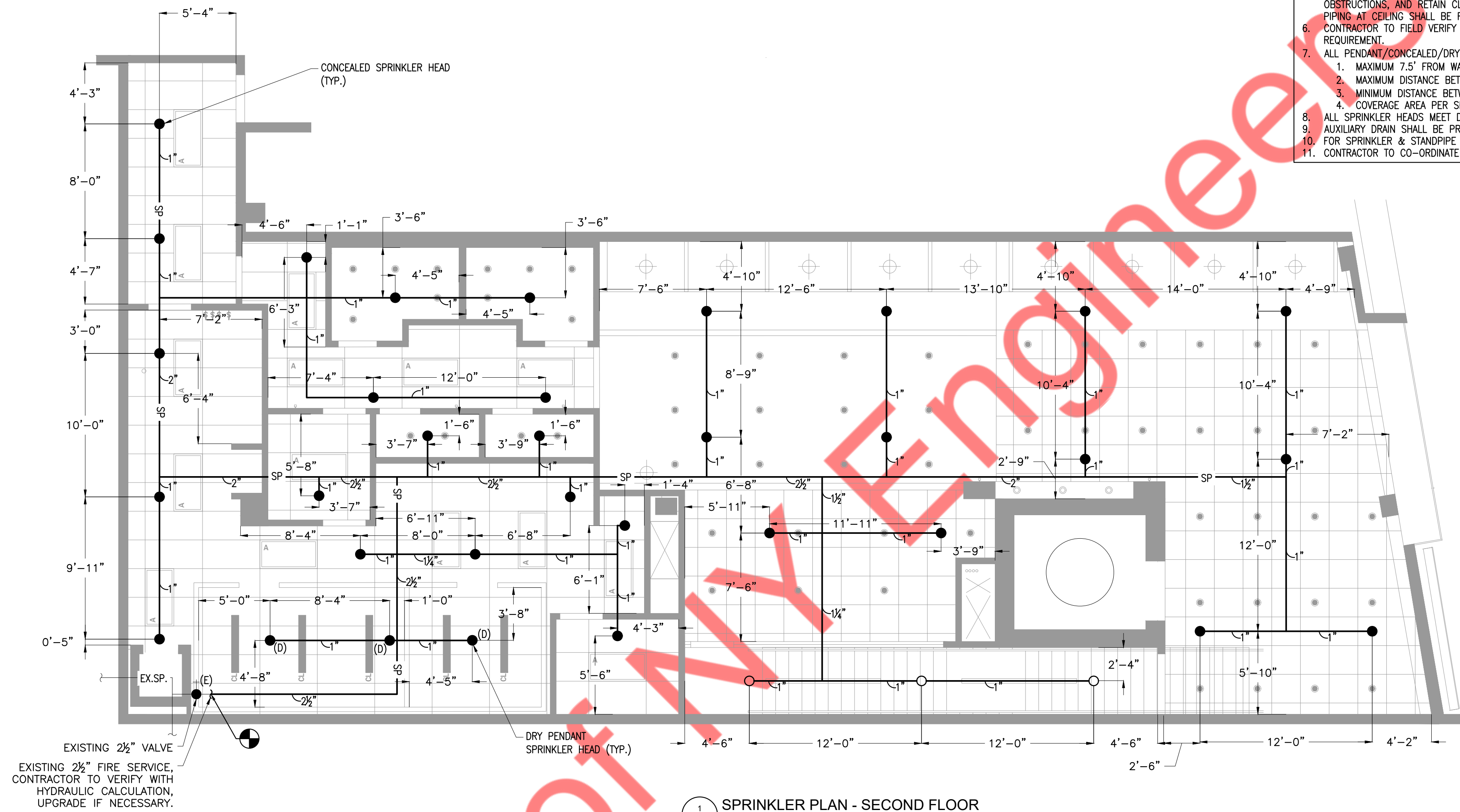


SPRINKLER RISER DIAGRAM

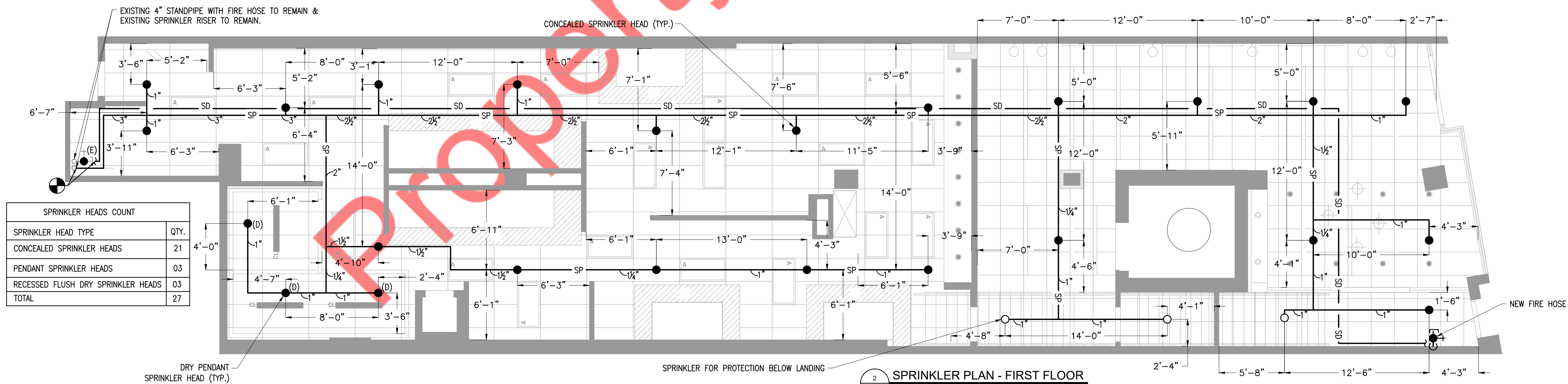
- GENERAL NOTES:
1. CONTRACTOR TO FIELD VERIFY TO INSTALL ALL SPRINKLER HEADS TO BE MAX. 12" FROM CEILING.
  2. ALL NEW SPRINKLER HEADS LOCATION TO BE COORDINATED WITH LIGHTING AND DIFFUSERS TO AVOID CONFLICT.
  3. ALL SPRINKLER HEADS & PIPING TO BE COORDINATED WITH EXISTING & NEW SERVICES.
  4. ANY WORK SHOWN ON THE DRAWINGS AND NOT PARTICULARLY DESCRIBED IN THE SPECIFICATIONS OR DETAILS, OR ANY WORK WHICH MAY BE DEEMED NECESSARY TO COMPLETE THE CONTRACT SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THIS CONTRACT.
  5. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, SPRINKLER DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND SIZE AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE. THE DRAWINGS INDICATE SIZE, CONNECTION POINTS, AND ROUTED OF PIPES. IT IS NOT INTENDED, HOWEVER, THAT ALL OFFSETS, RISES AND DROPS ARE SHOWN. PROVIDE PIPING AS REQUIRED TO FIT STRUCTURE, AVOID OBSTRUCTIONS, AND RETAIN CLEARANCES, HEADROOM OPENINGS AND PASSAGEWAYS. ALL SPRINKLER PIPING AT CEILING SHALL BE ROUTED TIGHT TO EXISTING SLAB AS REQUIRED.
  6. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION IF REQUIRED AS PER STRUCTURAL REQUIREMENT.
  7. ALL PENDANT/CONCEALED/DRY PENDANT SPRINKLERS MUST BE SPACED AS FOLLOWS -
    1. MAXIMUM 7.5' FROM WALL
    2. MAXIMUM DISTANCE BETWEEN 2 SPRINKLER HEADS IS 15'
    3. MINIMUM DISTANCE BETWEEN 2 SPRINKLER HEADS IS 6'
    4. COVERAGE AREA PER SPRINKLER SHALL BE MAX. 150 SQ.FT.
  8. ALL SPRINKLER HEADS MEET DESIGN CRITERIA PER COVERAGE.
  9. AUXILIARY DRAIN SHALL BE PROVIDED AT THE TRAPPED SECTIONS.
  10. FOR SPRINKLER & STANDPIPE WORK ONLY.
  11. CONTRACTOR TO CO-ORDINATE ALL SPRINKLER LOCATION WITH LIGHTS, DIFFUSER.

SPRINKLER HEADS COUNT	
SPRINKLER HEAD TYPE	QTY.
CONCEALED SPRINKLER HEADS	30
PENDANT SPRINKLER HEADS	03
DRY PENDANT SPRINKLER HEADS	03
TOTAL	36

HAZARD CLASSIFICATION AND DESIGN DENSITY:	
AREA : KITCHEN PREPARATION AREA	
OCCUPANCY: ORDINARY HAZARD	
MINIMUM DESIGN DENSITY: 0.15 GPM/SQ. FT.	
AREA : RESTAURANT DINING AREA	
OCCUPANCY: LIGHT HAZARD	
MINIMUM DESIGN DENSITY: 0.10 GPM/SQ. FT.	



1 SPRINKLER PLAN - SECOND FLOOR  
SP-101 3/16"=1'-0"



SPRINKLER HEADS COUNT	
SPRINKLER HEAD TYPE	QTY.
CONCEALED SPRINKLER HEADS	21
PENDANT SPRINKLER HEADS	03
RECESSED FLUSH DRY SPRINKLER HEADS	03
TOTAL	27

2 SPRINKLER PLAN - FIRST FLOOR  
SP-101 3/16"=1'-0"