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Building #17
Campus Expansion Child
Day-care Center

899 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

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JMC

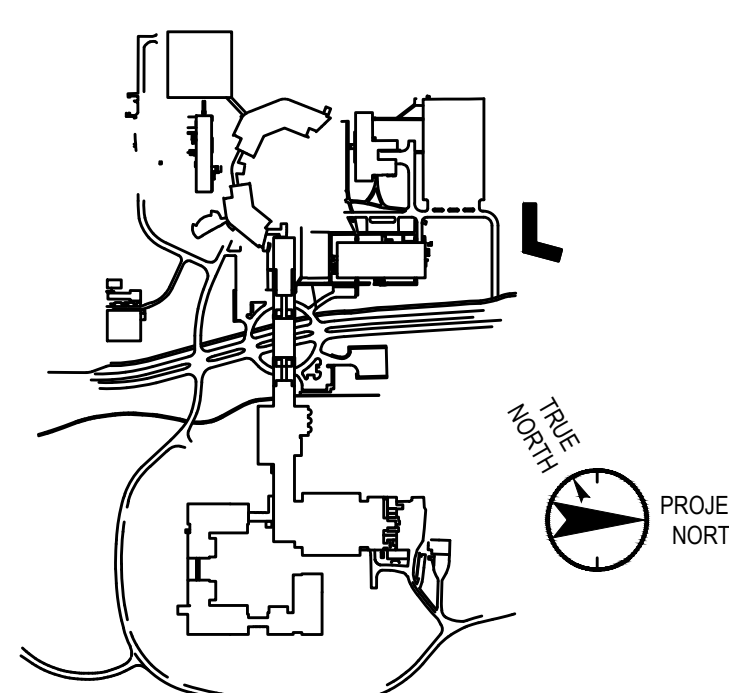
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Key Plan



No. Date Description

0 05.20.2022 ISSUED FOR PERMIT
1 06.20.2022 100% CONSTRUCTION DOCUMENTS
2 07.01.2022 100% CONSTRUCTION DOCUMENTS-1

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Plot Date: 07.01.2022

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GENERAL FIRE PROTECTION NOTES

- ALL WORK AND MATERIAL NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS SHALL BE PROVIDED BY THE FIRE PROTECTION SPRINKLER CONTRACTOR AND SHALL BE NEW, AND FIRST QUALITY OF THEIR RESPECTIVE KINDS, AND SUBJECT TO THE APPROVAL BY THE ARCHITECT/ENGINEER AND ALL AUTHORITIES HAVING JURISDICTION.
- NOTE: ALL MATERIAL FOR THE COMPLETE FIRE PROTECTION SYSTEM MUST BE UL, F.M. and/or ASHRAE N.C.T.C. APPROVED TYPE. WHERE, DUE TO UNION REGULATIONS OR TRADE AGREEMENTS, ANY OF THE WORK SHOWN ON THE DRAWINGS OR DESCRIBED IN SPECIFICATIONS IS NOT CONSIDERED THE FIRE PROTECTION CONTRACTOR'S WORK, THE FIRE PROTECTION CONTRACTOR SHALL SUBCONTRACT THIS WORK IN QUESTION, BUT THE FIRE PROTECTION CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE COMPLETE INSTALLATION.
- DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY COOPERATIVE AND TO AGREE, BUT SHOULD ANY DISCREPANCY OR APPARENT DIFFERENCES OCCUR BETWEEN THE DRAWINGS AND SPECIFICATIONS OR SHOULD OCCUR IN THE WORK OF OTHERS AFFECTING THE WORK, THE FIRE PROTECTION SYSTEMS, THE F.P. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AT ONCE. IF THE FIRE PROTECTION CONTRACTOR PROCEEDS WITH THE AFFECTED WORK WITHOUT INSTRUCTIONS FROM THE ARCHITECT/ENGINEER, HE SHALL MAKE GOOD FOR ANY RESULTANT DAMAGE, DEFECT OR VIOLATIONS OF THE APPLICABLE FIRE PROTECTION CODES AT HIS OWN EXPENSE. ALL MISUNDERSTANDINGS OF DRAWINGS AND SPECIFICATIONS SHALL BE CLARIFIED BY THE ARCHITECT/ENGINEER.
- ANY AND ALL SPRINKLER HEADS PLACED IN LOCATION WHERE THEY ARE LIABLE TO BE ACCIDENTALLY DAMAGED IN THE NORMAL COURSE OF EVENTS SHALL BE PROVIDED WITH HEAVY WIRE GUARDS.
- SPRINKLER HEADS, IN GENERAL, SHALL HAVE ORDINARY DEGREE TEMPERATURE RATING, UNLESS OTHERWISE NOTED. ALL HEADS SUBJECT TO ABNORMAL CONDITIONS, AS THOSE IN VICINITY OF HEATING UNITS, BOILERS, OR VERY CLOSE TO HOT PIPING, SHALL BE OF SUFFICIENTLY HIGH TEMPERATURE RATING BASED ON NFPA 413 REQUIREMENTS TO PREVENT THEIR ACCIDENTAL DISCHARGE WHEN NO FIRE IS PRESENT. COORDINATE LOCATION OF ALL THE ABOVE MENTIONED EQUIPMENT WITH HVAC CONTRACTOR AND INDICATE ON THE SHOP DRAWINGS PRIOR TO SUBMITTAL.
- SPRINKLER HEADS IN ALL AREAS ARE TO BE INSTALLED IN THE CENTER OF THE TILE, AND CENTERED WITH LIGHTS, DIFFUSERS OR SIMILAR ELEMENTS AS INDICATED ON ARCHITECTURAL REFLECTED CEILING DRAWINGS. SPRINKLER HEADS SHALL ALSO BE INSTALLED ON A TRUE AXIS LINE IN BOTH DIRECTIONS WITH A TOLERANCE OF +/- 1/2". AT THE COMPLETION OF THE INSTALLATION, IF ANY SPRINKLER HEADS ARE FOUND TO EXCEED THE ABOVE SPECIFIED TOLERANCES, THE FIRE PROTECTION CONTRACTOR SHALL RELOCATE ALL SPRINKLER HEADS THAT ARE NOT INSTALLED PROPERLY. ANY ADDITIONAL WORK OF ANOTHER TRADE THAT MAY BE DISTURBED IN RELOCATING MISALIGNED SPRINKLER HEADS SHALL BE REPAIRED AT NO COST TO THE OWNER.
- PIPING AND FITTINGS SHALL BE ERCTED SO THAT THE ENTIRE SYSTEM MAY BE THOROUGHLY DRAINED. ON DRY-PIPE SYSTEMS, BRANCHES SHALL BE PITCHED 1/2" IN 10'; CROSS AND FEED MAINS SHALL BE PITCHED 1/4" IN 10' MINIMUM. ALL FIRE PROTECTION SYSTEMS DRAINS MUST BE PIPED TO A SAFE LOCATION BY THE FIRE PROTECTION CONTRACTOR. FOR EXACT LOCATIONS OF ALL DRAINAGE RECEIPT DRAWINGS. SPRINKLER FUNNEL, DRAINS, SUMP PITS, ETC. BY THE PLUMBING CONTRACTOR, COORDINATE WITH PLUMBING DRAWINGS.
- INSTALL O.S.&Y. TYPE GATE VALVES AND OTHER TYPES OF VALVES IN HORIZONTAL POSITION (WITH STEMS POINTED UP OR IN VERTICAL POSITION) WHERE POSSIBLE, BUT IN NO CASE WITH STEMS POINTED DOWNWARD.
- INSTALLATION OF CHECK VALVES:
 - SWING CHECK VALVES: INSTALL IN HORIZONTAL POSITION WITH HINGE PIN LOCATED ON THE UPSIDE OF THE PIPE AND PERPENDICULAR TO THE PIPE'S CENTERLINE.
 - WAFFER CHECK VALVES: INSTALL BETWEEN 2 FLANGES IN HORIZONTAL OR VERTICAL POSITION.
 - ALL SWAMESE F.I. DEPT. CONNECTION CHECK VALVES SHALL BE PROVIDED WITH AUTO-BALL DRIIPS WITH DRAIN PIPING.
- ALL FIRE PROTECTION SYSTEMS SHALL BE TESTED IN THE PRESENCE OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVES. THE OWNER OR HIS REPRESENTATIVES AND THE LOCAL AUTHORITIES HAVING JURISDICTION OF THE WORK TO BE TESTED, AS MAY BE DIRECTED, AT LEAST 72 HOURS NOTICE SHALL BE GIVEN IN ADVANCE TO ALL PARTIES CONCERNED OF ALL TESTS.
 - THE WORK OF THIS CONTRACTOR SHALL INCLUDE THE FURNISHING OF ALL TESTING INSTRUMENTS, GAUGES, PUMPS AND OTHER EQUIPMENT REQUIRED OR NECESSARY FOR TESTS, REQUIRED BY LAWS, RULES AND REGULATIONS AND AS SPECIFIED.
 - PROVIDE ALL ADDITIONAL TESTS REQUIRED BY LOCAL INSPECTORS AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
 - ALL DEFECTS DISCLOSED IN THE WORK BY TESTS AND OTHERWISE, SHALL BE MADE GOOD (BY THE FIRE PROTECTION CONTRACTOR) OR THE WORK REPLACED WITHOUT ADDITIONAL COST TO THE OWNER. NO CARULING OR PATCHING OF SCREWED JOINTS, CRACKS OR HOLES IN PIPING SYSTEM WILL NOT BE ACCEPTABLE.
- PORTABLE FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS, IF REQUIRED, THROUGHOUT THE BUILDING SHALL BE PROVIDED BY THE OWNER.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGMENT AND LOCATION OF EQUIPMENT, PIPING, SPRINKLER HEADS, ETC. THE FIRE PROTECTION CONTRACTOR SHALL MAKE ALL REQUIRED MODIFICATIONS IN THE LAYOUT WORK THAT MAY BE REQUIRED TO SUIT ACTUAL JOB CONDITIONS WITHOUT EXTRA COMPENSATION.
- THE FIRE PROTECTION CONTRACTOR SHALL ASCERTAIN THAT ALL HIS EQUIPMENT, SUCH AS VALVES, CONTROL PANELS FOR PRE-ACTION SYSTEMS, ETC., IS MADE EASILY ACCESSIBLE FOR OPERATION AND MAINTENANCE, AS MAY BE NECESSARY TO BE REACHED FROM TIME TO TIME FOR OPERATION AND MAINTENANCE.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE SPRINKLER SYSTEM HYDRAULIC CALCULATIONS AND SUBMIT THEM AS PART OF THE SHOP DRAWINGS. THE CALCULATIONS SHALL BE PREPARED IN ACCORDANCE WITH N.F.P.A. CHAPTER 13 AND REQUIREMENTS SPECIFIED HEREIN. CALCULATIONS SHALL BE PREPARED FOR AS MANY AREAS OF APPLICATION PER FLOOR, AND FOR ALL FLOORS AS REQUIRED TO DEMONSTRATE TO THE SATISFACTION OF THE ARCHITECT/ENGINEER THAT THE WHOLE SYSTEM MEETS THE OUTLINED DESIGN CRITERIA INDICATED ON THIS DRAWING.
- BEFORE STARTING ANY WORK, THE FIRE PROTECTION CONTRACTOR SHALL CONSULT THE ARCHITECT'S DETAILED DRAWINGS AND STRUCTURAL DRAWINGS FOR SPACES AND HEADROOM ALLOWED FOR THE INSTALLATION OF ALL PIPING, EQUIPMENT, ETC. SHOULD ANY PIPING OR EQUIPMENT REQUIRE MORE SPACE THAN ALLOWED FOR, OR ENOUGH UPON SUSPENDED CEILINGS OR AVAILABLE HEADROOM AS PLANNED, THE FIRE PROTECTION CONTRACTOR SHALL CALL THE ARCHITECT'S/ENGINEER'S ATTENTION TO SAME AND OBTAIN HIS APPROVAL BEFORE INSTALLING THE WORK.
- REDUCING TYPE COUPLING SIMILAR TO "VICTAULIC" (OR APPROVED EQUAL) FIG. NO. 750 AND FITTING STYLE FIG. NO. 925 WILL NOT BE PERMITTED.
- FITTINGS AND COUPLINGS FOR PLAIN END PIPE SIMILAR TO "VICTAULIC" (OR OTHER APPROVED EQUAL) FIT TYPE FITTINGS AND "ROBUST-A-BOLT" AND "PLAINLOCK" COUPLINGS WILL NOT BE PERMITTED.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL NECESSARY STRUCTURAL MEMBERS, HANGERS AND SUPPORTS OF APPROVED DESIGN TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES, WHERE HANGERS, BRACKETS, ETC. ARE SUPPORTED FROM CONCRETE CONSTRUCTION, CARE SHALL BE TAKEN NOT TO WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SUREW ADJUSTMENT AFTER IT IS ERCTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED, BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION.
 - PIPING SHALL NOT BE SUPPORTED FROM METAL DECKING.
 - TRAPEZE TYPE HANGERS, IF REQUIRED, SHALL BE MADE UP OF ANGLES OR CHANNELS BOLTED BACK-TO-BACK FOR SUPPORTING PARALLEL LINES OF PIPING. TRAPEZE TYPE HANGERS SHALL BE SUPPORTED WITH SUSPENSION RODS HAVING DOUBLE NUTS SECURELY ATTACHED TO CONSTRUCTION WITH INSERTS, BEAM CLAMPS, STEEL FISH PLATES, CANTILEVER BRACKETS, LAG SCREWS OR OTHER APPROVED MEANS. USE APPROVED TYPE BRACKETS FOR SUPPORTING PIPING ATTACHED ALONG WALLS. FIRE PROTECTION PIPING SUPPORTED BY TRAPEZE HANGERS SHALL BE PROVIDED WITH HOLD DOWN CLAMPS.
 - PROVIDE NECESSARY LONGITUDINAL AND LATERAL SWAY BRACING FOR FEED AND CROSS MAINS. INDICATE LOCATION OF THE BRACES ON THE SHOP DRAWINGS. SUBMIT ALL DETAILS FOR SEISMIC HANGERS.
 - SUPPORTS FOR VERTICAL PIPING SHALL BE DOUBLE BOLT RISER CLAMPS, WITH EACH END HAVING EQUAL BEARING ON THE BUILDING STRUCTURE. EXISTING RISERS AND PROVIDE FLEXIBLE COUPLING ON ALL RISERS 4" AND LARGER AS REQUIRED BY NFPA. PROVIDE FLEXIBLE COUPLINGS AT ALL OTHER OTHER LOCATIONS AS REQUIRED BY NFPA-13. USE 4-WAY SWAY BRACE TO SECURE TOP OF EACH RISER AGAINST DRIFTING IN ANY DIRECTION.
 - USE OF "C"-TYPE CLAMPS WITHOUT A RETAINING STRAP TO ATTACH HANGERS TO A BUILDING STRUCTURE IS PROHIBITED. USE OF "C"-TYPE CLAMPS WITH OR WITHOUT RETAINING STRAPS TO ATTACH BRACES TO THE BUILDING STRUCTURE IS PROHIBITED.
 - THE ARCHITECT/ENGINEER MUST APPROVE METHOD OF SUPPORTING PIPES FROM BUILDING STRUCTURE BEFORE WORK IS STARTED. THIS CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR MATERIALS AND WORKMANSHIP AS DESCRIBED IN THESE NOTES, AND SHALL MAKE SURE THAT ALL HANGERS AND SUPPORTS ARE PROPERLY AND PERMANENTLY CONNECTED TO THE BUILDING STRUCTURE.
- WATERFLOW DETECTORS SHALL BE DESIGNED FOR MOUNTING ON EITHER VERTICAL OR HORIZONTAL PIPING, BUT SHALL NOT BE MOUNTED IN A FITTING OR WITHIN MINIMUM DISTANCE, AS DESCRIBED IN MANUFACTURER'S INSTALLATION RECOMMENDATIONS, OF ANY FITTING THAT CHANGES THE DIRECTION OF WATER FLOW.
- RISER AND BRANCH ASSEMBLIES, INCLUDING TRIMMINGS, SHALL BE INSTALLED AT LOCATIONS AS DIRECTED. APPROVED TYPE DEVICES SHALL BE INSTALLED FOR THE AUTOMATIC ANNUNCIATION OF THE FLOW OF WATER. EACH NET PIPE ASSEMBLY AND ITS APPURTENANCES SHALL BE SO ARRANGED AND EQUIPPED IN AN APPROVED MANNER THAT THE TRANSMISSION OF ACCIDENTAL WATERFLOW ALARMS (DUE TO SURGES OR RELATED CONDITIONS) WILL POSITIVELY BE PREVENTED.
- DIRECT CONNECTION FROM ANY DRAIN TO ANY COMPONENT OF THE SANITARY OR STORM DRAINAGE SYSTEM SHALL BE PROHIBITED.
- SPRINKLER HEADS INSTALLED IN FITTINGS BEFORE PIPING IS ERCTED SHALL BE PROHIBITED.
 - TESTS ARE NOT PERMITTED TO BE MADE WITH AIR, EXCEPT WHEN SPECIFICALLY INDICATED, OR FOR DRY-PIPE SYSTEMS.
 - THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY TEST PLUGS OR TEE FITTINGS DURING ERECTION OF PIPE SYSTEM FOR THE PURPOSE OF PERFORMING SYSTEMS TESTING.
 - ALL PIPING WHICH IS TO BE ENCLOSED IN PARTITIONS OR SUSPENDED CEILINGS SHALL BE TESTED AND MADE TIGHT WHEN DIRECTED BY THE CONSTRUCTION SUPERVISOR AND IN ADEQUATE TIME TO PERMIT THE INSTALLATION OF PARTITIONS AND CEILINGS. WHEN NECESSARY, THIS CONTRACTOR SHALL DRAIN THE PIPING AND/OR TAKE SUCH PRECAUTIONS AS REQUIRED TO PREVENT DAMAGE BY FREEZING.

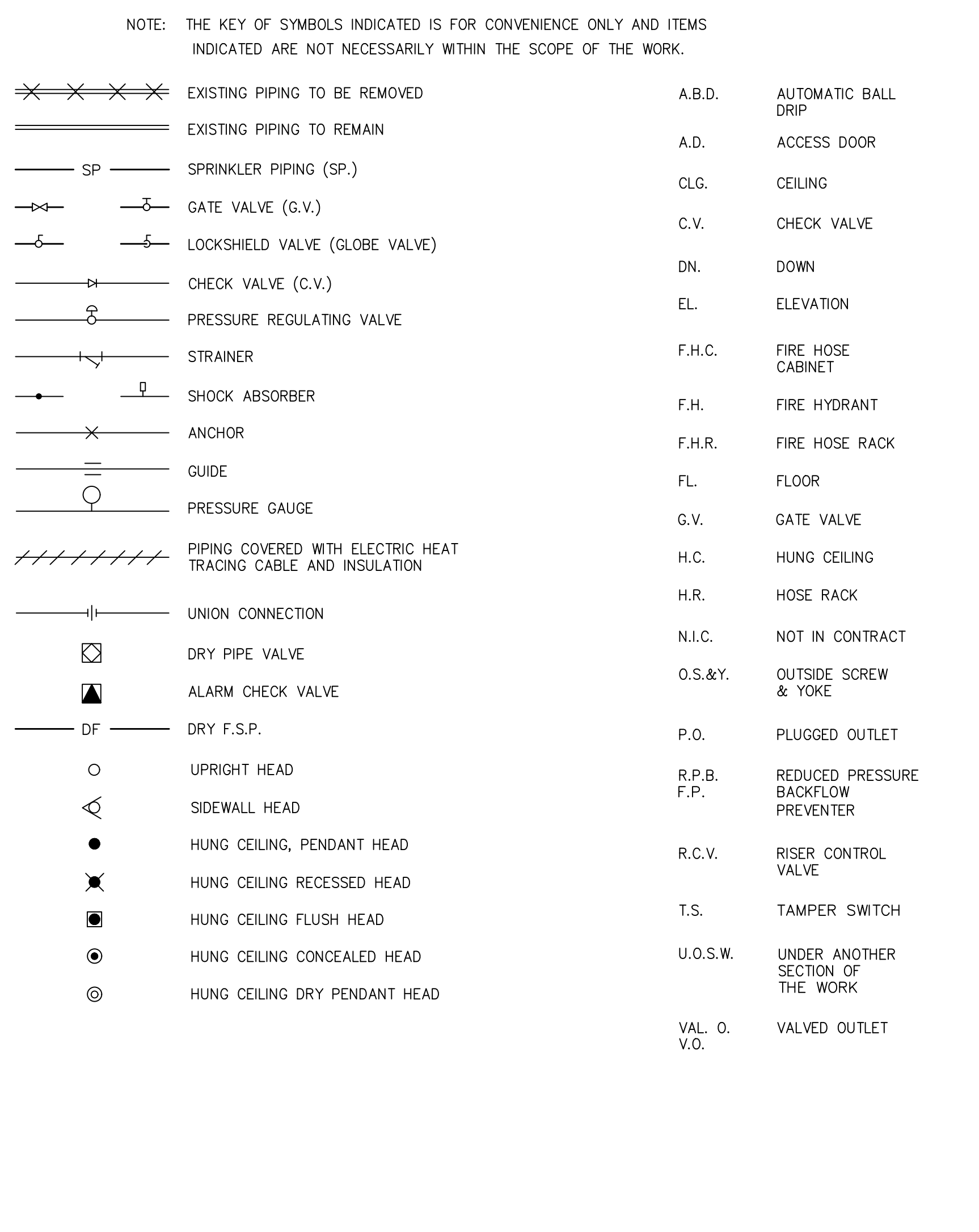
SPRINKLER DESIGN CRITERIA

- THE COMPLETE FIRE PROTECTION SYSTEM FOR THIS BUILDING IS DESIGNED AS A SPRINKLER SYSTEM.
- THE ENTIRE FACILITY SHALL BE FULLY SPRINKLERED INCLUDING ELECTRICAL AND TELEPHONE CLOSETS (AND OTHER SELECT AREAS INDICATED ON THE CONTRACT DRAWINGS), EXCEPT ELEVATOR MACHINE ROOMS AND SWITCHGEAR SPACES AND OTHER AREAS WITH THE (N.A.S.) "NO AUTOMATIC SPRINKLER" NOTE. ALL AREAS WITHOUT AUTOMATIC SPRINKLER PROTECTION SHALL BE PROVIDED WITH SMOKE DETECTORS (SMOKE DETECTORS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR). SEE ELECT./TELE. SPACES NOTE, THIS DRAWING.
- IN AREAS WITH SUSPENDED CEILINGS, REFER TO THE LATEST ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT SPRINKLER HEAD LOCATIONS, BASED ON "AESTHETIC" VALUES ONLY.
- ALL AREAS WITHOUT SUSPENDED CEILINGS: MECHANICAL ROOMS, STORAGE AREAS, HOUSEKEEPING CLOSETS, ETC. SHALL BE PROVIDED WITH EXPOSED UPRIGHT OR PENDENT SPRINKLER HEADS, AS REQUIRED TO SUIT CONSTRUCTION CONDITIONS.
- LOCATION AND TYPE OF SPRINKLER HEADS IN AREAS WITHOUT SUSPENDED CEILINGS SHALL BE FULLY COORDINATED WITH ARCHITECTURAL ELEMENTS (ACOUSTICAL PANELS, ETC.), EXPOSED STRUCTURAL ELEMENTS (BEAMS, COLUMNS, ETC.), LIGHTING EQUIPMENT AND HVAC EQUIPMENT (DUCTWORK, UNIT HEATERS, ETC.). ALL OF THE ABOVE ELEMENTS SHALL BE INDICATED ON THE SHOP DRAWINGS.
- LOCATION OF ALL HVAC UNIT HEATERS SHALL BE COORDINATED WITH HVAC CONTRACTOR AND SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS WITH PROPER RATING OF ADJACENT SPRINKLER HEADS.
- COORDINATE LOCATION OF ALL HVAC DUCTS AND ELECTRICAL CONDUIT BANKS AND CABLE TRAYS IN AREAS WITH EXPOSED CEILINGS WITH HVAC AND ELECTRICAL CONTRACTOR AND PROVIDE ADDITIONAL SPRINKLER HEADS AND PIPING FOR SAME UNDER DUCTS OR CLUSTER OF DUCTS, PIPING AND CONDUITS 48 INCHES IN WIDTH AND WIDER.
- COORDINATE LOCATION OF ALL PENDANT LIGHTING FIXTURES WITH LIGHTING CONTRACTOR AND INDICATE SAME ON THE SHOP DRAWINGS. TREAT ALL PENDENT LIGHTING AS AN OBSTRUCTION TO WATER DISTRIBUTION.
- PROVIDE HYDRAULIC CALCULATIONS AND SUBMIT THEM AS PART OF THE SHOP DRAWINGS. ALL CALCULATIONS SHALL BE PREPARED IN ACCORDANCE WITH THE "DESIGN CRITERIA FOR HYDRAULIC CALCULATIONS" AS INDICATED IN CONTRACT DOCUMENTS, THIS DRAWING.

DESIGN CRITERIA FOR ELECTRICAL/TELEPHONE SPACES

- ALL SWITCHGEAR SPACES AND ELEVATOR MACHINE ROOMS SHALL BE EXEMPT OF SPRINKLER PROTECTION.
- ALL ELECTRICAL CLOSETS SHALL HAVE A NON-FERROUS METAL DRIP PAN DIRECTLY BELOW THE SPRINKLER PIPING ABOVE THE BUSWAY.
- ALL TELEPHONE SPACES SHALL BE PROVIDED WITH SPRINKLER PROTECTION.

KEY OF SYMBOLS



FIRE SUPPRESSION DRAWING LIST		
SHEET	TITLE	SCALE
FX-000	FIRE SUPPRESSION SYMBOLS, ABBREVIATIONS, NOTES AND DRAWING LIST	NTS
FX-100	FIRE SUPPRESSION 1ST FLOOR PLAN	1/8" = 1'-0"
FX-501	FIRE SUPPRESSION DETAILS	NTS
FX-600	FIRE SUPPRESSION SCHEDULES	NTS
FX-700	FIRE SUPPRESSION RISER DIAGRAM	NTS

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

This plan is approved only for work indicated on the application specification sheet. All other matters shown are not to be relied upon, shall be confirmed as either being approved or in accordance with applicable codes.

Alterations or additions to this engineering document by an unlicensed person is a violation of Chapter 16, Title VIII, Article 145 § 7209.2 of the New York State Education Law.

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Fire Suppression Drawn By: DH
FIRE SUPPRESSION
SYMBOLS, ABBREVIATIONS,
AND DRAWING LIST

Scale: NTS Floor: N/A

FX-000