- 1. AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 903 & APPENDIX Q OF 2014 NEW YORK CITY BUILDING CODE & NFPA 13-2007.
- 2. CONSTRUCTION DOCUMENTS FOR STANDPIPE SYSTEM SHALL CONTAIN PLANS THAT INCLUDE THE INFORMATION AND DATA LISTED IN SEC. 903.1.2 OF NEW YORK CITY BUILDING CODE.
- 3. APPROVED AUTOMATIC SPRINKLER SYSTEM IN NEW BUILDINGS AND STRUCTURES SHALL BE PROVIDED IN THE LOCATIONS DESCRIBED IN SEC. 903.2 OF NEW YORK CITY BUILDING CODE.
- 4. AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SEC. 903.3.1 THROUGH 903.3.7 OF NEW YORK CITY BUILDING CODE.
- 5. WHERE THE PROVISIONS OF NEW YORK CITY BUILDING CODE REQUIRE THAT A BUILDING OR PORTION THERE OF BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SEC. 903.3.1.1, SPRINKLERS SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 AS MODIFIED IN APPENDIX Q EXCEPT AS PROVIDED IN SEC. 903.3.1.1.1. OF NEW YORK CITY BUILDING CODE.
- 6. AUTOMATIC SPRINKLERS SHALL NOT BE REQUIRED IN THE ROOMS OR AREAS WHICH ARE LISTED IN 903.3.1.1.1 OF NEW YORK CITY BUILDING CODE AS LONG AS AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM IN ACCORDANCE WITH SEC. 907.2 AND AN ALTERNATIVE EXTINGUISHING SYSTEM IN ACCORDANCE INSTALLED IN ACCORDANCE WITH SECTIONS 903.3.1 THROUGH 903.3.7 WITH SECTION 904.
- 7. SPRINKLERS SHALL NOT BE OMITTED FROM ANY ROOM MERELY BECAUSE IT IS DAMP, OF FIRE-RESISTANCE-RATED CONSTRUCTION OR CONTAINS ELECTRICAL EQUIPMENT.
- 8. WHERE ALLOWED IN BUILDINGS OF GROUP R, UP TO AND INCLUDING SIX STORIES IN HEIGHT, AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 R AS MODIFIED IN APPENDIX Q 903.3.1.2 OF NEW YORK CITY BUILDING CODE.
- 9. WHERE AUTOMATIC SPRINKLER SYSTEM ARE REQUIRED BY NEW YORK CITY BUILDING CODE, QUICK-RESPONCE OR RESIDENTIAL AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN THE AREAS LISTED SEC. 903.3.2 OF NEW YORK CITY BUILDING CODE.
- 10. AUTOMATIC SPRINKLERS SHALL BE INSTALLED WITH DUE REGARD TO OBSTRUCTIONS THAT WILL DELAY ACTIVATION OR OBSTRUCT THE WATER DISTRIBUTION PATTERN. AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN OR UNDER COVERED KIOSKS, DISPLAYS, BOOTH, CONCESSION STANDS, OR EQUIPMENT THAT EXCEEDS 4 FEET IN WIDTH. NOT LESS THAN 3 FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN AUTOMATIC SPRINKLERS AND TOP OF PILES OF COMBUSTIBLE FIBERS SEC. 903.3.3. OF NEW YORK CITY BUILDING CODE.
- 11. WATER SUPPLIES FOR AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 903.3.5 OF NEW YORK CITY BUILDING CODE AND SEC. 903.3.1 THE POTABLE WATER SUPPLY SHALL BE PROTECTED AGAINST BACK FLOW IN ACCORDANCE WITH THE REQUIREMENTS OF SEC.903.3.5 THE NEW YORK CITY PLUMBING CODE, AND RULES OF THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 12. A SECONDARY ON-SITE WATER SUPPLY EQUAL TO THE HYDRAULICALLY CALCULATED SPRINKLER DEMAND, INCLUDING THE HOSE STREAM REQUIREMENT, SHALL BE PROVIDED FOR HIGH-RISE BUILDINGS IN SEISMIC DESIGN CATEGORY "C" OR "D" AS DETERMINED BY THIS CODE, AND IN ANY HIGH-RISE BUILDING GREATER THAN 300 FEET IN HEIGHT. THE SECONDARY WATER SUPPLY SHALL HAVE A DURATION NOT LESS THAN 30 MINUTES AS DETERMINED BY THE OCCUPANCY HAZARD CLASSIFICATION IN ACCORDANCE WITH NFPA 13-2007
- 13. FIRE HOSE THREADS USED IN CONNECTION WITH AUTOMATIC SPRINKLER SYSTEMS SHALL BE APPROVED AND COMPATIBLE WITH FIRE DEPARTMENT HOSE THREADS.
- 14. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEM, PUMPS, TANKS, WATER LEVELS AND TEMPERATURES, CRITICAL AIR PRESSURES AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEM SHALL BE ELECTRICALLY SUPERVISED BY THE FIRE ALARM SYSTEM.
- 15. APPROVED SUPERVISED INDICATING CONTROL VALVES SHALL BE PROVIDED AT THE POINT

OF CONNECTION TO THE RISER ON EACH FLOOR IN HIGH-RISE BUILDINGS.

- 16. THE DOCUMENTS OR PORTIONS THERE OF LISTED IN CHAPTER 2 OF NFPA 13-2007 ARE REFERENCED WITHIN NFPA-13 AND SHALL BE CONSIDERED PART OF THE REQUIREMENTS OF THIS DOCUMENT.
- 17. OCCUPANCY CLASSIFICATION SHALL COMPLY WITH CHAPTER 5 OF NFPA 13-2007.
- 18. PROTECTION REQUIREMENTS FOR MIXED COMMODITIES SHALL BE ACCORDANCE WITH SEC. 5.6.1.2 OF NFPA 13-2007.
- 19. REQUIREMENTS FOR CORRECT USE OF SPRINKLER SYSTEM COMPONENTS SHALL COMPLY WITH CHAPTER 6 OF NFPA 13-2007.
- 20. THE K-FACTOR, RELATIVE DISCHARGE, AND MARKING IDENTIFICATION FOR SPRINKLERS HAVING DIFFERENT ORIFICE SIZES SHALL BE IN ACCORDANCE WITH TABLE 6.2.3.1 OF NFPA 13-2007.
- 21. LARGE DROP AND ESFR SPRINKLERS SHALL HAVE A MINIMUM NOMINAL K-FACTOR OF 11.2.
- 22. AUTOMATIC SPRINKLERS SHALL HAVE THEIR FRAME ARMS, DEFLECTOR, COATING MATERIAL, OR LIQUID BULB COLORED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 6.2.5.1 OF NFPA 13-2007.
- 23. LISTED CORROSION RESISTANT SPRINKLER SHALL BE INSTALLED IN LOCATIONS WHERE CHEMICALS, MOISTURE, OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH DEVICES EXIST.
- 24. ALL CONTROL, DRAIN, AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS, SEC. 6.7.4.1 OF NFPA 13-2007.
- 25. FIRE DEPARTMENT CONNECTIONS SHALL BE EQUIPPED WITH LISTED PLUGS OR CAPS, PROPERLY SECURED AND ARRANGED FOR EASY REMOVAL BY THE FIRE DEPARTMENT. SEC. 6.8.4 OF NFPA 13-2007.
- 26. REQUIREMENTS OF DRY PIPE SYSTEM INSTALLACTION SHALL COMPLY WITH SEC. 7.2 OF NFPA 13-2007.
- 27. REQUIREMENTS OF PREACTION & DELUGE SYSTEM INSTALLATION SHALL COMPLY WITH SEC. 7,3 OF NFPA 13-2007.
- 28. OUTSIDE SPRINKLERS FOR PROTECTION AGAINST EXPOSURE FIRE SHALL COMPLY WITH SEC. 7.7 OF NFPA 13-2007.

ORIGINAL SHEET - ARCH D

29. THE MAXIMUM FLOOR AREA OR ANY ONE FLOOR TO BE PROTECTED BY A SINGLE RISER FROM A CONTROL VALVE AND ALARM DEVICE SHALL COMPLY WITH SEC. 8.2.1 OF NFPA 13-2007.

- 30. WHERE CIRCUMSTANCES REQUIRE THE USE OF OTHER THAN ORDINARY
 TEMPERATURE-RATED SPRINKLERS, STANDARD RESPONSE SPRINKLERS SHALL BE
 PERMITTED TO BE USED SEC. 8.3.3. OF NFPA 13-2007.
- 31. WHEN EXISTING LIGHT HAZARD SYSTEMS ARE CONVERTED TO USE QUICK-RESPONCE OR RESIDENTIAL SPRINKLERS ALL SPRINKLERS IN A COMPARTMENTED SPACE SHALL BE CHANGED. SEC. 8.3.3.4 OF NFPA 13-2007.
- 32. SPRINKLERS OF INTERMEDIATE AND HIGH TEMPERATURE RATINGS SHALL BE INSTALLED IN SPECIFIC LOCATIONS AS REQUIRED BY SEC. 8.3.2 OF NFPA 13-2007.
- 33. SPRINKLERS SHALL BE LOCATED, SPACED AND POSITIONED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 8.5.
- 34. PROTECTION AREAS AND MAXIMUM SPACING FOR EACH HAZARD SHALL COMPLY WITH TABLE 8.6.2.2.1 (a) (b) (c) (d) OF NFPA 13-2007.
- 35. REQUIREMENTS OF DWELLING UNITS PROTECTION SHALL COMPLY WITH SEC. 8.14.8 OF NFPA 13-2007.
- 37. DRAIN CONNECTIONS FOR SYSTEMS SUPPLY RISERS AND MAINS SHALL BE SIZED AS SHOWN IN TABLE 8.15.2.4.2 OF APPENDIX Q-NEW YORK CITY BUILDING CODE.
- 38. TYPES OF HANGERS SHALL BE ACCORDANCE WITH THE REQUIREMENT OF SEC. 9.1. OF NFPA 13-2007.
- 13-2007.

 40. HOSE STREAM DEMAND AND WATER SUPPLY DURATION REQUIREMENT SHALL COMPLY

39. MAXIMUM DISTANCE BETWEEN HANGERS SHALL BE COMPLY WITH TABLE 9.2.2.1 OF NFPA

41. THE WATER SUPPLY FOR SPRINKLERS SHALL BE DETERMINED BY DENSITY/AREA CURVE,

WITH TABLE 11.2.3.1.1 OF NFPA 13-2007

WITH FIGURE 11.2.3.2.3.1 OF NFPA 13-2007.

FIGURE 11.2.3.1.5 OF NFPA 13-2007.

- 42. HYDRAULIC DESIGN AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS SHALL COMPLY
- 44. DESIGN CRITERIA OF WATER CURTAIN SHALL COMPLY WITH SEC. 12.1.13 OF NFPA 13-2007.
- 45. TYPE OF SPRINKLER HEAD IN GENERAL STORAGE SHALL COMPLY WITH SEC. 11.2.3.8 OF NFPA 13-2007.
- 46. MINIMUM OPERATING PRESSURE OF ANY SPRINKLER SHALL BE 7 PSI. SEC. 14.4.4.8.1 OF NFPA 13-2007.
- 47. NUMBER OF WATER SUPPLY FOR SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 15.1.1 OF NFPA 13-2007 AND APPENDIX Q OF NEW YORK CITY BUILDING CODE.
- 48. A SPRINKLER SYSTEM ACCORDANCE WITH THIS STANDARD SHALL BE PROPERLY INSPECTED, TESTED AND ACCORDANCE WITH NFPA 25 AND NEW YORK CITY FIRE CODE.

GENERAL SPRINKLER NOTES:

- 1. PIPING ARRANGEMENTS ARE APPROXIMATE. CONTRACTOR MUST VERIFY EXACT LOCATION AND ROUTING PRIOR TO INSTALLATION.
- 2. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS ON THE JOB SITE AND MAINTAIN REQUIRED CEILING HEIGHTS AND CONDITIONS.
- 3. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, SERVICES, LABOR AND TESTS NECESSARY FOR COMPLETE EXECUTION OF ALL PLUMBING WORK.
- 4. MATERIALS, EQUIPMENT AND SYSTEMS INSTALLED SHALL MEET ALL PERTINENT REQUIREMENTS OF NEW YORK STATE BUILDING CODES, NATIONAL FIRE PROTECTION ASSOCIATION, NEW YORK CITY REGULATIONS, OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND ANY NATIONALLY
- PIPE SIZING AND PIPE LAYOUT SHOWN ARE BASED ON DESIGN PIPING LAYOUT ONLY. ACTUAL PIPE SIZES AND PIPING CONFIGURATION SHALL BE DETERMINED BY THE CONTRACTORS HYDRAULIC CALCULATIONS AND COORDINATION WITH THE OTHER TRADES BASED ON THEIR INSTALLATION DRAWINGS. THE CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN THEIR CONTRACT PRICE. THE CONTRACTOR IS TO SUBMIT TO NEW YORK CITY DEPARTMENT OF BUILDINGS.

RECOGNIZED APPROVAL AGENCIES AS WELL AS APPLICABLE LOCAL CODES AND REGULATIONS.

- 6. "BE ADVISED THAT IT IS THE SPRINKLER CONTRACTORS RESPONSIBLE FOR OBTAINING ANY AND ALL FINAL APPROVALS FOR THEIR INSTALLED SYSTEM BASED ON THEIR COORDINATED SHOP DRAWING(S) AND HYDRAULIC CALCULATIONS. THE INSTALLATION SHALL BE CERTIFIED BY THE SPRINKLER CONTRACTOR AND THESE SPRINKLER PLAN(S) AND HYDRAULIC CALCULATIONS SHALL BE SIGNED AND SEALED BY YOUR ENGINEER AND BE SUBMITTED TO THE NEW YORK CITY DOB TO REPLACE LIZARDOS AS THE ENGINEER OF RECORD."
- 7. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL FROM ALL OF THE AUTHORITIES HAVING JURISDICTION, INCLUDING THE NEW YORK CITY FIRE DEPARTMENT WITH ASSOCIATED INSPECTIONS AND BE AVAILABLE TO TEST THE SYSTEM AS REQUIRED.
- 8. CONTRACTOR SHALL INCLUDE IN THEIR BASE BID, 6 ADDITIONAL HEADS OF EACH TYPE AND ASSOCIATED BRANCH PIPING (UP TO 12' PER HEAD) TO COVER UNFORSEEN CONDITIONS.

NYC SPECIAL INSPECTIONS

SPRINKLER SYSTEM

- 1. NEW AND ALTERED SPRINKLER SYSTEMS SHALL BE INSPECTED IN ACCORDANCE WITH NEW YORK CITY BUILDING CODE SECTION 903 AND FIRESTOP, DRAFTSTOP & FIRELOCK SYSTEMS NEW YORK CITY BUILDING CODE SECTION 1704.25. THIS CONTRACTOR OR PERMIT HOLDER FOR THE SPRINKLER WORK SHALL PERFORM ALL REQUIRED ACCEPTANCE TESTS, COMPLETE AND SIGN THE APPROPRIATE CONTRACTOR'S MATERIAL AND TEST CERTIFICATES. THE SPECIAL INSPECTOR SHALL WITNESS ALL REQUIRED TESTS AND SHALL VERIFY THAT ALL INSTALLATIONS OF ALL MATERIALS, FITTINGS, HANGERS, ASSEMBLIES AND SIGNAGE ARE IN ACCORDANCE WITH THE APPROVED CONSTRUCTIONS DOCUMENTS AND THE CONTRACTOR HAS TRANSMITTED REQUIRED MAINTENANCE LITERATURE AND INSTRUCTIONS TO THE OWNER. THE SPECIAL INSPECTOR SHALL VERIFY THE MATERIAL AND TEST CERTIFICATION FORMS HAVE BEEN TRANSMITTED TO THE FIRE DEPARTMENT AND THE DEPARTMENT OF BUILDINGS.
- SPRINKLER SYSTEM BC 903FIRESTOP SYSTEM BC 1704.25
- 2. THE SPECIAL INSPECTOR SHALL BE HIRED DIRECTLY BY THE OWNER OR THE GENERAL CONTRACTOR. COST FOR THE SPECIAL INSPECTOR SHALL BE INCLUDED AS PART OF THE SPRINKLER CONTRACTORS OVERALL BID AND BE BROKEN OUT SO THE OWNER CAN HIRE THE SPECIAL INSPECTOR DIRECTLY WITH THE FUNDS PROVIDED UNDER THE SPRINKLER CONTRACTORS BYD.

LEGEND		
•	NEW CONCEALED TYPE SPRINKLER HEAD	
X _R	EXISTING SPRINKLER HEAD TO BE RELOCATED	
\mathbf{X}_{D}	EXISTING SPRINKLER HEAD TO BE DEMOLISHED. PIPING CUT AND CAPPED	
© E	EXISTING SPRINKLER HEAD TO REMAIN	
X _R ●	NEW SPRINKLER HEAD ARMED OVER FROM EXISTING HEAD LOCATION.	
├	NEW SPRINKLER PIPING	
\vdash	EXISTING SPRINKLER PIPING	
•	NEW CONNECTION TO EXISTING	
•	POINT OF DISCONNECTION	
Е	EXISTING	
SPR	SPRINKLER	
CONN	CONNECTION	
SP	SPRINKLER PIPING	
DN	DOWN	
TYP	TYPICAL	

	SPRINKLER DRAWING LIST	
SP-001.00	SPRINKLER LEGENDS, NOTES AND DETAILS	
SP-101.00	SPRINKLER SECOND FLOOR PLAN - DEMOLITION	
SP-201.00	SPRINKLER SECOND FLOOR PLAN - NEW WORK	
SP-301.00	SPRINKLER SPECIFICATIONS	
SP-401.00	SPRINKLER SPECIFICATIONS	

SPRINKLER DESIGN CRITERIA:

(NEW YORK CITY BUILDING CODE AND NFPA 13)

OCCUPANCY CLASSIFICATION LIG

LIGHT HAZARD ORDINARY HAZARD

(OFFICES, EXAM RMS.,
TREATMENT RMS. AND RMS.)

CORRIDORS)

DENSITY 0.10 GPM/SQ.FT. 0.20 GPM /SQ.FT. AREA OF APPLICATION 1,500 SQ.FT. 1500 SQ.FT. MAXIMUN COVERAGE PER SPRINKLER 225 SQ.FT. 130 SQ.FT.

FDNY NOTE:

PER NEW YORK CITY DOB BULLETIN 2012-009 THE "OWNER SHALL NOTIFY FDNY OF SPRINKLER SYSTEM DISCONNECTION BY SUBMITTING A LETTER OF NOTIFICATION". SUCH LETTER SHALL INDICATE SCOPE OF WORK, DATE AND TIME AND THE DURATION OF DISCONNECTIONS.

WORK DESCRIPTION:

1. DISCONNECT AND REMOVE THE EXISTING SPRINKLER HEADS, FURNISH AND INSTALL NEW SPRINKLER HEADS IN THE CENTER OF NEW CEILING.

SPECIAL INSPECTIONS NOTES:

PROVIDE SPECIAL INSPECTIONS FOR THE FOLLOWING:

SPRINKLER SYSTEMS
 POST-INSTALLED ANCHORS
 BC 1704.23
 BC 1704.32



REFERENCES: BUILDING CODE, 2014 EDITION AND NFPA-13-2007 AS MODIFIED BY THE

NFPA-13-2007 AS MODIFIED BY THE
NEW YORK CITY BUILDING CODE APPENDIX Q.

MODIFICATION OF AN EXISITNG SYSTEM NOTES:

- 1. SPRINKLER HEAD ORIFICE SIZES, TYPE, AND DEFLECTOR POSITIONS FOR MODIFICATIONS OF AN EXISTING SYSTEM SHALL REMAIN THE SAME.
- 2. SPRINKLER MODIFICATIONS SHALL NOT ALTER THE TYPE OF SPRINKLER SYSTEM.
- 3. SPRINKLER PIPING RELOCATION SHALL NOT AFFECT THE OPERATION OF THE SPRINKLER SYSTEM.
- THE HAZARD OCCUPANCY FOR THIS SPRINKLER SYSTEM UNDER THIS APPLICATION SHALL REMAIN THE SAME.
- 5. SPRINKLER MODIFICATIONS SHALL NOT AFFECT THE HYDRAULICALLY DESIGNED AREA OF APPLICATION OF THE FLOOR.
- 6. NEW WORK UNDER THIS APPLICATION IS A MODIFICATION TO AN EXISTING HYDRAULICALLY DESIGNED SPRINKLER SYSTEM PREVIOUSLY SUBMITTED AND APPROVED UNDER NEW YORK CITY BUILDING DEPARTMENT APPLICATION. THIS MODIFICATION IS OUTSIDE OF THE HYDRAULICALLY CALCULATED MOST REMOTE AREA.
- 7. PER BULLETIN 2017-009 THE "OWNER SHALL NOTIFY FDNY OF SPRINKLER SYSTEM DISCONNECTION BY SUBMITTING A LETTER OF NOTIFICATION". SUCH LETTER SHALL INDICATE DETAILED SCOPE OF WORK, DATE AND TIME AND THE DURATION OF DISCONNECTION, AND TEMPORARY FIRE PROTECTION MEASURES TO BE PROVIDED IN THE AFFECTED AREA, AND SHALL BE SENT TO:

FIRE DEPARTMENT OF THE CITY OF NEW YORK CONSTRUCTION, DEMOLITION AND ABATEMENT UNIT 9 METROTECH CENTER BROOKLYN, NY 11201-3857

8. THE PROPOSED HYDRAULIC DEMAND OF THE SYSTEM IS EQUAL TO, OR LESS THAN, THE HYDRAULIC DEMAND OF THE EXISTING SYSTEM.



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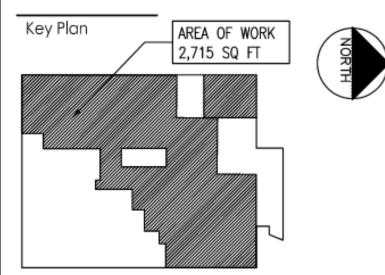
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Notes

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 2023.10.16

 OMH FILING
 By
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 YY.MM.DD

 File Name:
 7024.02-SP-001.dwg
 Dwn.
 Chkd.
 Dsgn.
 YY.MM.DD



Client/Project

RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVENUE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

Title

SPRINKLER LEGENDS, NOTES AND DETAILS

Project No. 7024.02

Drawing No.

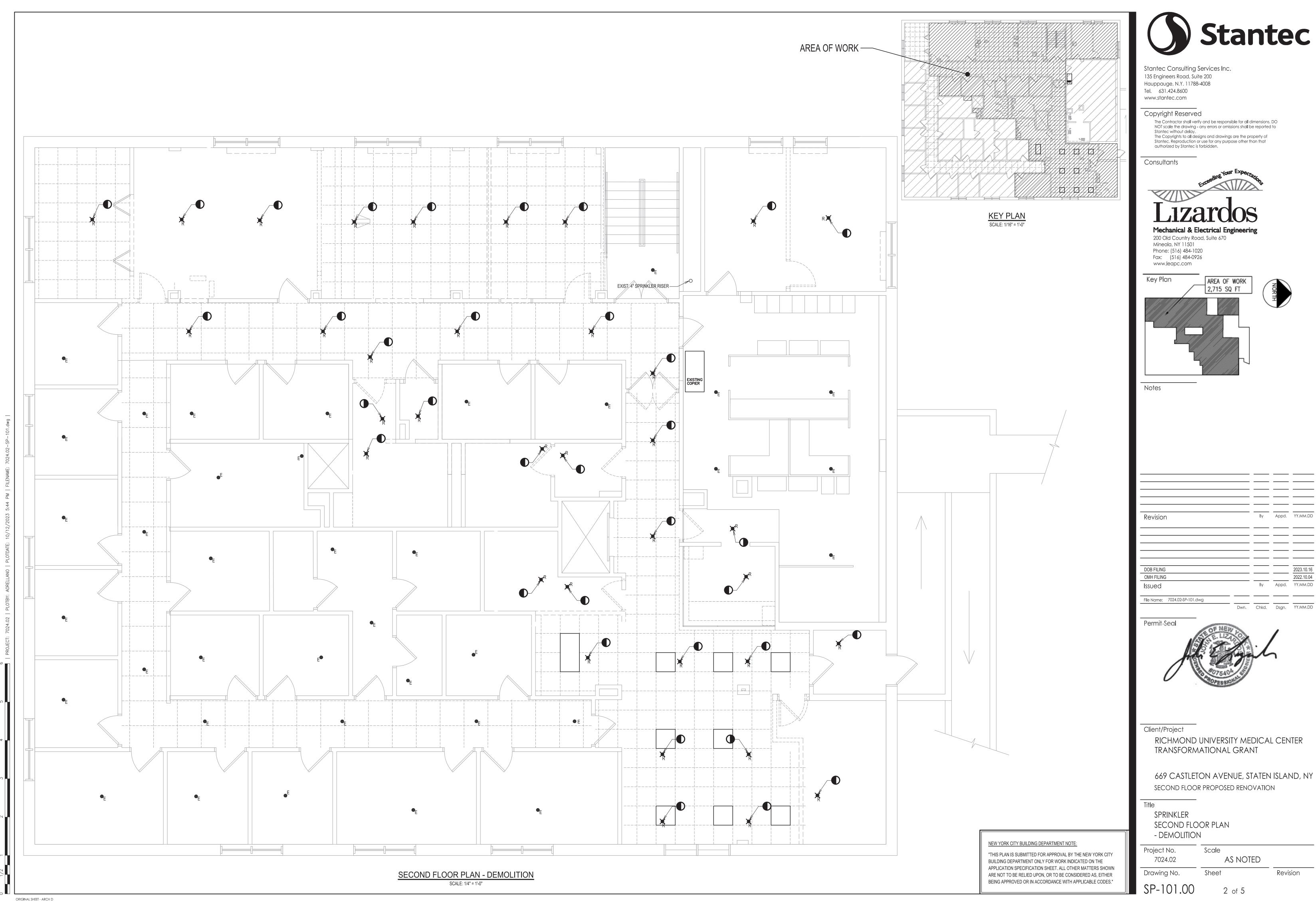
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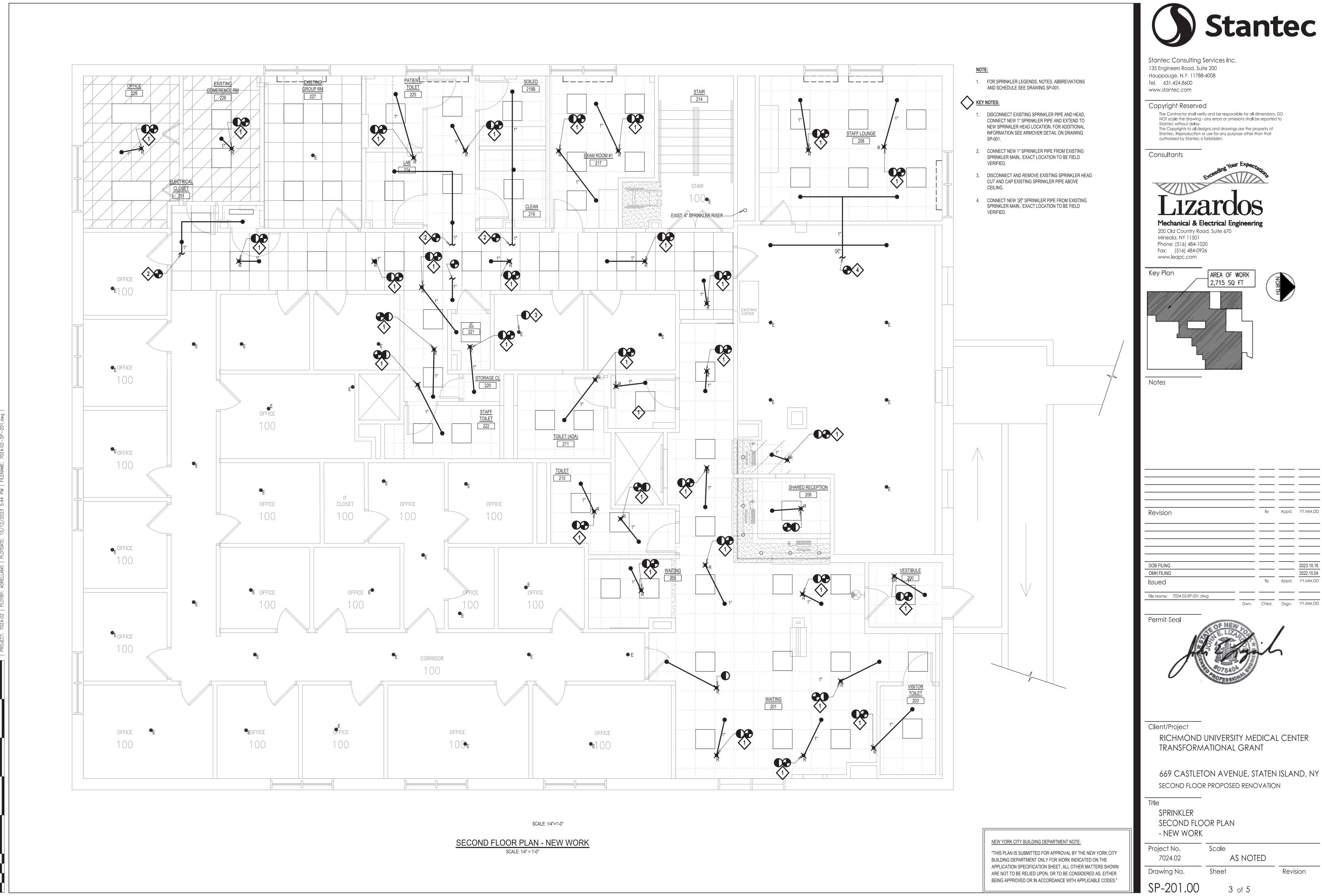
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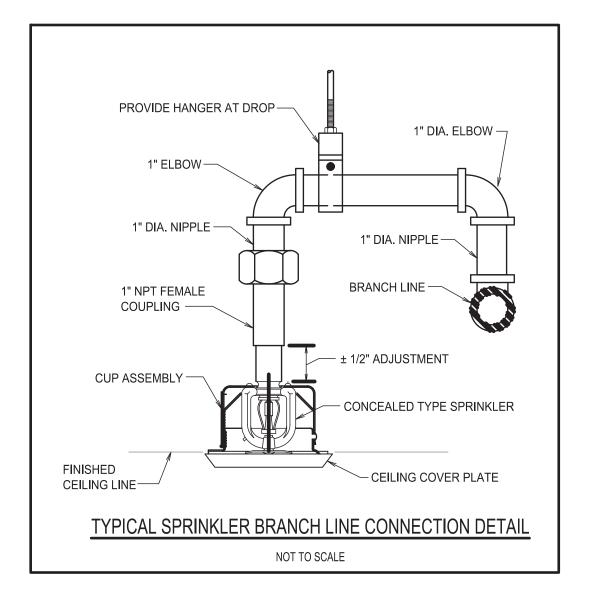
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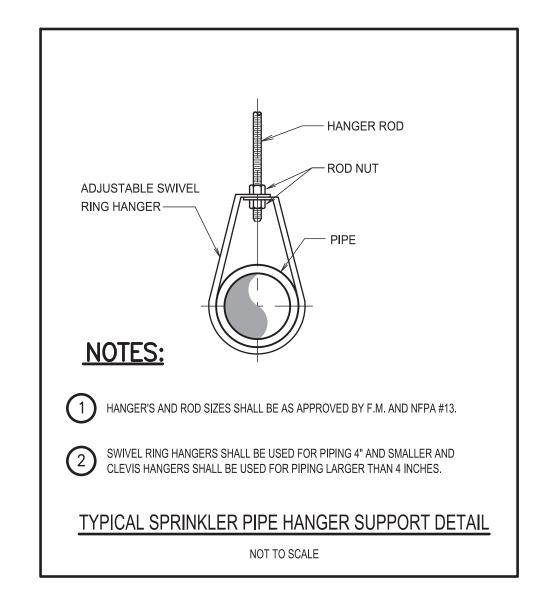


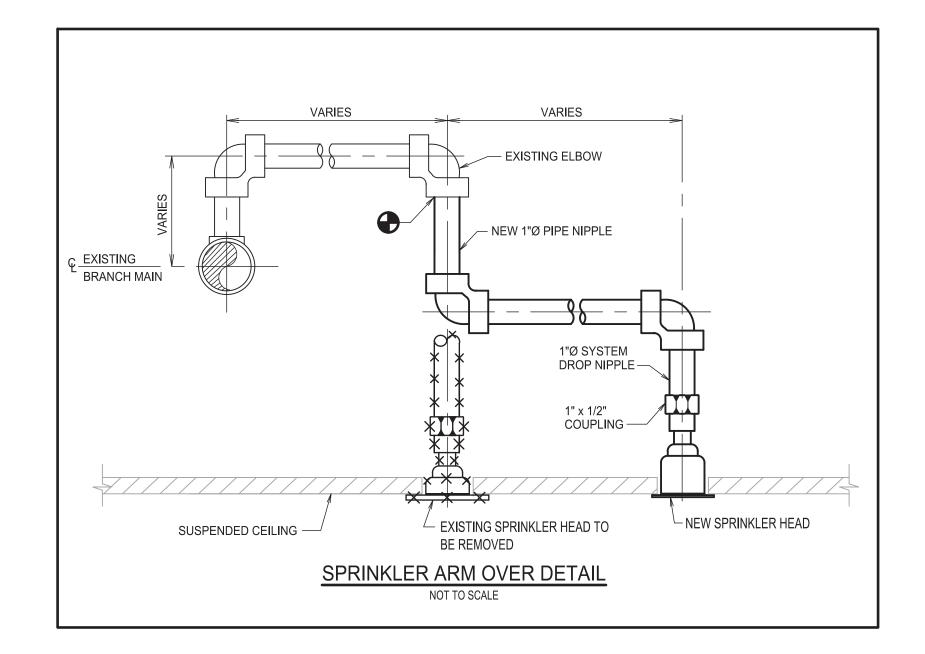
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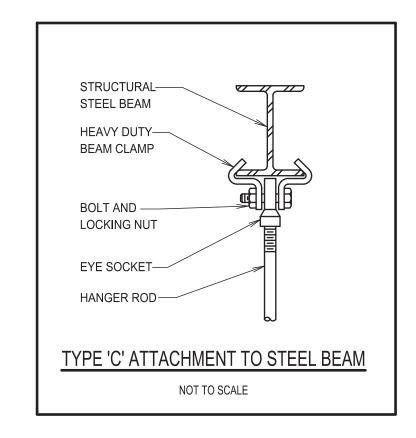
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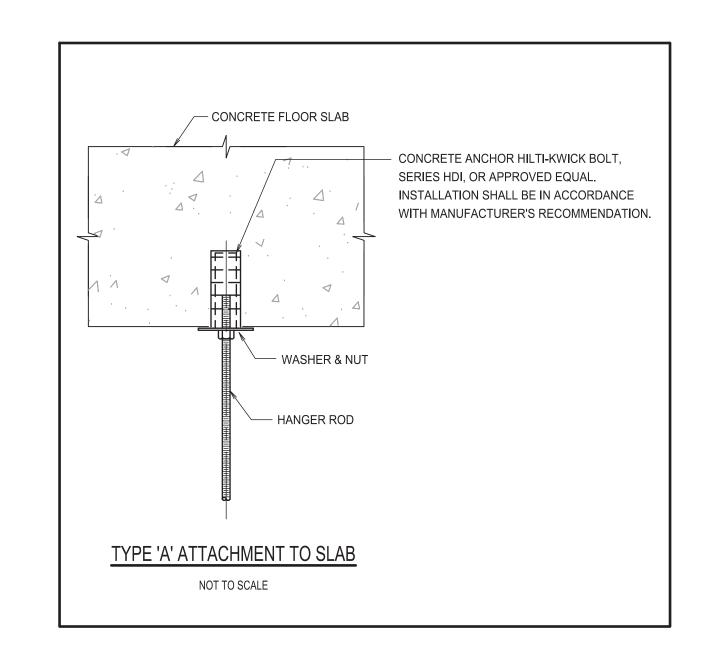
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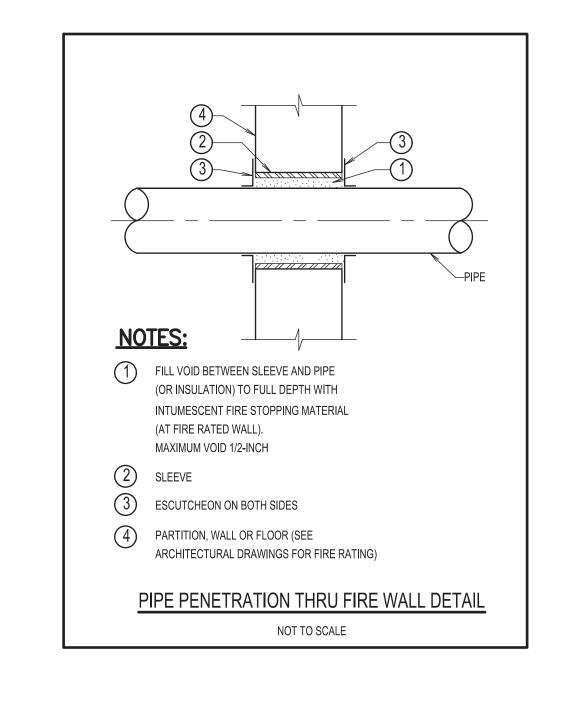


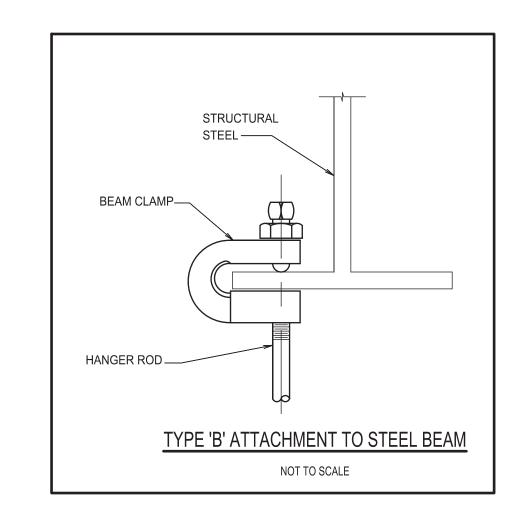












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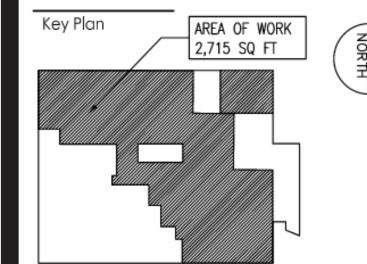
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Client/Project

RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVENUE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

SPRINKLER DETAILS

Project No. Scale **AS NOTED** Sheet Drawing No. Revision

NEW YORK CITY BUILDING DEPARTMENT NOTE:

"THIS PLAN IS SUBMITTED FOR APPROVAL BY THE NEW YORK CITY BUILDING DEPARTMENT ONLY FOR WORK INDICATED ON THE APPLICATION 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."

SP-301.00

4 of 5

- IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE INSTALLATION FOR FINISHED WORK, TESTED AND READY FOR OPERATION, THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST AND MOST THOROUGH MANNER UNDER THE DIRECTION OF AND TO THE SATISFACTION OF THE OWNER.
- A.3. EACH CONTRACTOR MUST PROVIDE OWNER'S CONSTRUCTION REPRESENTATIVE WITH COPIES OF REQUIRED INSURANCE. COPIES TO BE FURNISHED TO THE OWNER BEFORE COMMENCING WORK.
- THIS CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS IN ACCORDANCE WITH OSHA REQUIREMENTS.

B. WORK INCLUDED

- FURNISH ALL LABOR, MATERIALS, EQUIPMENT, INCIDENTALS AND SUPERVISION REQUIRED TO MODIFY THE EXISTING SPRINKLER SYSTEMS TO SUIT NEW CONSTRUCTION AND DEMOLITION. FINAL INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE INSURANCE COMPANY, NFPA SECTION 13, AND NYC BUILDING CODE FOR THE PROPOSED OCCUPANCY AND USE. WORK SHALL, IN GENERAL, BE AS SPECIFIED HEREIN, BUT SHALL NOT NECESSARILY BE LIMITED TO THE FOLLOWING:
- CONTRACTOR SHALL PREPARE DETAILED WORKING DRAWINGS AND HYDRAULIC CALCULATIONS IMMEDIATELY AFTER AWARD OF CONTRACT AND SHALL HAVE SAME APPROVED BY LOCAL BUILDING DEPARTMENT, FIRE MARSHAL AND INSURANCE UNDERWRITERS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FILING AND OBTAINING PERMITS AND APPROVALS. AND PAYMENT OF ALL FEES. ALL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER.
- ALL DEMOLITION, REMOVAL, RELOCATION, ALTERATION AND NEW WORK AS REQUIRED OR CALLED FOR IN SPECIFICATIONS OR INDICATED ON DRAWINGS.
- MODIFYING EXISTING SPRINKLERS IN NEW AND EXISTING AREAS WHERE HUNG CEILINGS ARE TO BE INSTALLED OR REVISED.
- MODIFICATION AND REARRANGEMENT OF EXISTING HEADS TO CONFORM TO NEW PARTITIONS, WALLS, EQUIPMENT, ETC., AS REQUIRED.
- INSTALLATION OF HANGERS, SLEEVES, SUPPORTS, AND ACCESSORIES, AS REQUIRED.
- MODIFICATION OF EXISTING SPRINKLER PIPING AS REQUIRED FOR THE
- INSTALLATION OF NEW MECHANICAL EQUIPMENT AND/OR DUCTWORK. PRIOR TO INSTALLING NEW PIPING AND FITTINGS, THE CONTRACTOR SHALL VERIFY THE EXISTING/NEW PRESSURE LEVELS IN THE ZONE AND/OR FLOOR

LEVEL THEY ARE WORKING IN SO TO INSTALL THE PROPER PRESSURE RATING

PRESSURE SHALL BE TESTING PER THE REQUIREMENTS OF NFPA TO SUIT THE NEW

- OF THE NEW PIPE AND FITTINGS. THE CONTRACTOR SHALL TEST THE NEW PIPING AND FITTINGS BASED ON THE REQUIREMENTS OF NFPA BASED ON THE OPERATING MAXIMUM PRESSURE IN THE ZONE AND/OR THE FLOOR LEVEL THEY ARE WORKING IN. IF THE NEW WORK IS INCREASING THE OPERATING PRESSURE IN THE ZONE AND/OR FLOOR OR IN THE ENTIRE BUILDING, ALL EXISTING SYSTEMS AFFECTED BY THE NEW INCREASED
- THE PIPING AND COMPONENTS FOR A STANDARD OR NORMAL PRESSURE SYSTEM SHALL BE LISTED FOR A HIGH PRESSURE OR "IN EXCESS OF NORMAL PRESSURE" SYSTEM SHALL BE LISTED FOR 250 PSIG MINIMUM.

INCREASED PRESSURE.

C. GENERAL REQUIREMENTS

C.1. GENERAL

- AFTER CAREFULLY STUDYING THE DRAWINGS AND SPECIFICATIONS, AND C.1.a. BEFORE SUBMITTING THEIR PROPOSAL, EACH BIDDER SHALL VISIT THE SITE TO ASCERTAIN CONDITIONS OF THE SITE, AND THE NATURE AND EXACT QUANTITY OF WORK TO BE PERFORMED. NO EXTRA WILL BE ALLOWED IF THE CONTRACTOR FAILS TO EXAMINE THE SITE, OR HAVING EXAMINED THE SITE, THE CONTRACTOR FAILS TO NOTIFY THE OWNER IN WRITING OF ANY DISCREPANCIES THAT HE MAY HAVE NOTED BETWEEN THE EXISTING CONDITIONS, AND DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS OF HIS OWN OR OTHERS AT THE SITE, AND SHALL BE RESPONSIBLE FOR CORRECTNESS OF SAME AS RELATED TO HIS WORK.
- CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS WHO FURNISH AND INSTALL WORK IN CONNECTION WITH THE WORK OF THIS PROJECT. GIVE THEM COMPLETE DATA AS TO HIS REQUIREMENTS, AND NOTIFY OWNER OF ANY CONDITION THAT WILL INTERFERE WITH PROPER COMPLETION OF THIS WORK. COOPERATE N THE SCHEDULING OF THIS WORK WITH THE WORK OF OTHER CONTRACTS SO AS NOT TO DELAY JOB PROGRESS.
- THE WORK SHALL BE CAREFULLY LAID OUT IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. WHERE SUCH WORK IS NECESSARY, HOWEVER, THE WORK SHALL BE CAREFULLY DONE. ANY DAMAGE TO THE BUILDING OR EQUIPMENT SHALL BE PATCHED AND/OR REPAIRED IN AN APPROVED MANNER BY SKILLED MECHANICS AT NO ADDITIONAL COST TO THE

C.2. CODES, REGULATIONS AND STANDARDS

- ALL WORK SHALL BE DONE ACCORDING TO THE REQUIREMENTS OF ALL APPLICABLE CODES AND SHALL RECEIVE THE APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION. PREPARE ALL REQUIRED DOCUMENTS AND DRAWINGS, PERFORM ALL REQUIRED TESTS AND PAY ALL REQUIRED CHARGES TO OBTAIN THESE APPROVALS.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE FEDERAL, STATE AND NYC BUILDING CODES, NFPA 13, OWNER'S INSURANCE UNDERWRITER AND ANY OTHER AGENCIES HAVING JURISDICTION.
- C.3. SECURITY
- OBEY ALL SECURITY REGULATIONS ESTABLISHED BY THE OWNER, AND ABIDE BY ALL BUILDING RULES AND REGULATIONS, OWNER'S APPROVAL SHALL BE OBTAINED BEFORE ENTERING SECURED AREAS OF THE BUILDING.

- C.4. CLEANING
- C.4.a. MAINTAIN ALL AREAS, UNDER CONTRACTOR'S CONTROL, FREE OF EXTRANEOUS
- SCHEDULE REGULAR COLLECTION AND DISPOSAL OF DEBRIS DAILY AND MORE FREQUENTLY IF NECESSARY.

D. SPECIAL REQUIREMENTS

D.1. CLEARANCES AND COOPERATION OF OTHER TRADES

- CONTRACTOR SHALL COOPERATE WITH CONTRACTORS WHOSE WORK IS CONTIGUOUS IN ORDER TO AVOID FIELD INTERFERENCES, REDUCTION IN HEADROOM, INACCESSIBILITY, UNSATISFACTORY OR DEFECTIVE WORK, NEEDLESS CUTTING AND PATCHING AND DELAY IN EXECUTION OF THE WORK OF ALL TRADES.
- MAINS AND BRANCHES, AS WELL AS HEADS, MUST BE LOCATED TO CLEAR LIGHTING FIXTURES, DIFFUSERS, DUCTWORK, ETC. THE SPRINKLER CONTRACTOR SHALL COOPERATE WITH OTHER TRADES SO THAT THERE WILL BE NO INTERFERENCE. NEW MAINS AND BRANCHES SHALL BE RUN AS TIGHT TO STRUCTURAL STEEL AS POSSIBLE, ARRANGEMENT SHALL BE SUCH THAT MAXIMUM HEADROOM MINIMUM INTERFERENCE WITH THE FUNCTION OF THE BUILDING SHALL BE ACHIEVED.

CUTTING AND PATCHING

- ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING REQUIRED FOR THE WORK SHALL BE PROVIDED BY THE CONTRACTOR.
- ALL CUTTING. DRILLING OR OTHER CONSTRUCTION OPERATIONS WHICH CREATE EXCESSIVE NOISE OR VIBRATION SHALL BE SCHEDULED WITH THE OWNER. CONTRACTOR SHALL PAY FOR ANY OVERTIME WORK REQUIRED.
- CUTTING OF WALLS SHALL BE DONE AS APPROVED BY THE OWNER IN A CAREFUL MANNER, WITH CORE DRILLS, SO AS NOT TO SERIOUSLY IMPAIR THE APPEARANCE OR STRENGTH OF THE STRUCTURE.
- PROVIDE ALL DRILLING AND PATCHING FOR EXPANSION BOLTS, HANGERS AND OTHER SUPPORTS FOR PROPER AND SAFE INSTALLATION OF THE WORK.

MAINTENANCE OF EXISTING FACILITIES AND CONDUCT OF THE WORK

- THE BUILDING WILL BE OCCUPIED AND IN OPERATION DURING THE PROGRESS OF THE WORK. WHEN NECESSARY TO TEMPORARILY HALT BUILDING EGRESS OR FLOW OF PERSONNEL TRAFFIC, CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON. IT IS REQUIRED THAT THE WORK INDICATED AND/OR SPECIFIED SHALL BE CARRIED OUT WITH A MINIMUM OF INTERFERENCE TO THE ESTABLISHED ROUTINE OF THE BUILDING.
- NO WORK SHALL BE LEFT INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. AT NO TIME SHALL THE WORK INTERFERE WITH OR CUT OFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S WRITTEN PERMISSION.
- WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING BUILDING UTILITIES OR SERVICE SYSTEMS, CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON.
- BEFORE SHUTTING-OFF A SECTION OF THE FIRE SERVICE SYSTEM TO MAKE SPRINKLER SYSTEM CONNECTIONS, NOTIFY THE AUTHORITY HAVING JURISDICTION, PLAN THE WORK CAREFULLY, AND ASSEMBLE ALL MATERIALS TO ENABLE COMPLETION IN THE SHORTEST POSSIBLE TIME. WORK STARTED ON CONNECTIONS SHALL BE RUSHED TO COMPLETION WITHOUT INTERRUPTION, AND PROTECTION RESTORED AS PROMPTLY AS POSSIBLE. DURING THE IMPAIRMENT, PROVIDE EMERGENCY HOSE LINES, ADDITIONAL FIRE PAILS AND EXTINGUISHERS. AND MAINTAIN EXTRA WATCH SERVICE IN THE AREAS AFFECTED.
- WHEN CHANGES INVOLVE SHUTTING-OFF WATER FROM ANY CONSIDERABLE NUMBER OF SPRINKLERS FOR MORE THAN A FEW HOURS, TEMPORARY WATER SUPPLY CONNECTIONS SHALL BE MADE TO SPRINKLER SYSTEMS SO THAT REASONABLE PROTECTION CAN BE MAINTAINED. IN ADDING TO OLD SYSTEMS OR REVAMPING THEM. PROTECTION SHALL BE RESTORED EACH NIGHT. NOTIFY THE MEMBERS OF THE PRIVATE FIRE BRIGADE AS WELL AS THE PUBLIC FIRE DEPARTMENT AS TO PRESENT CONDITIONS.

D.4. SCAFFOLDING, RIGGING AND HOISTING

PROVIDE, ERECT, MAINTAIN AND BE RESPONSIBLE FOR THE SAFE AND LEGAL USE OF ALL SCAFFOLDING, HOISTING AND RIGGING. ALSO, PROVIDE ADDITIONAL BRACING AND SERVICES REQUIRED FOR THE DELIVERY OR ERECTION OF THE EQUIPMENT AND CONSTRUCTION MATERIALS PROVIDED OR INSTALLED UNDER THIS CONTRACT.

D.5. SUBMITTALS

D.5.a. SHOP DRAWINGS

- D.5.a.1. SUBMIT ONE SEPIA AND THREE PRINTS OF SYSTEM FABRICATION DRAWINGS AND HYDRAULIC CALCULATIONS. PLANS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER.
- SUBMIT SIX COPIES OF MANUFACTURER'S SUBMITTAL SHEETS OR CATALOG CUTS.

AS-BUILT DRAWINGS D.5.b.

- D.5.b.1. PROVIDE OWNER WITH A COMPLETE SET OF AS-BUILT DRAWINGS COVERING EVERY ASPECT OF THE WORK. THE COMPLETE SET SHALL INCLUDE A SET OF MYLARS OR QUALITY SEPIAS CAPABLE OF PRODUCING QUALITY PRINTS, AND TWO FULL SETS OF ALL AS-BUILT DRAWINGS.
- FURNISH COPIES OF INSURANCE COMPANY AND BUILDING DEPARTMENT APPROVED PLANS AND CALCULATIONS.

E. PIPING SYSTEMS, ACCESSORIES, SUPPORTS, SLEEVES

INSTALL ALL EQUIPMENT AND PIPING SYSTEMS USING THE BEST STANDARD PRACTICES OF THE TRADE AND LEAVE SYSTEM COMPONENTS COMPLETE AND READY FOR OPERATION. UNLESS OTHERWISE NOTED, SPECIFIED OR INDICATED, ALL PIPING AND EQUIPMENT SHALL BE CONNECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DETAILS AND AS APPROVED BY THE OWNER.

- E.2. PROMPTLY INSTALL PIPING REQUIRED TO BE CONCEALED IN FLOOR, WALL OR CEILING CONSTRUCTION TO NOT CAUSE DELAY TO OTHER WORK, AND TO ALLOW AMPLE TIME FOR NECESSARY TASKS AND APPROVALS.
- E.3. MODIFY PIPING ARRANGEMENTS AS NECESSARY TO SUIT CONDITIONS IN THE BUILDING, AND TO PERMIT ACCESS TO EQUIPMENT AND ACCESSORIES.

E.4. PIPING INSTALLATION

- WHERE SPRINKLER PIPING IS SHOWN TO BE REMOVED. PLUG EXISTING FITTING AT BRANCH/MAIN TO REMAIN.
- SPRINKLER WORK SHALL BE CLOSELY COORDINATED WITH EXISTING AND NEW DUCTWORK, DIFFUSERS, VAV BOXES AND LIGHTING FIXTURES; MODIFICATIONS IN LAYOUT NEEDED TO ACHIEVE SAME SHALL BE WITHOUT EXTRA CHARGE TO
- ALL SPRINKLER HEADS SHALL BE CENTERED IN CEILING PANELS UNLESS OTHERWISE INDICATED.
- ALL SPRINKLER PIPING IN HUNG CEILING AREAS SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- PROVIDE SLEEVES AND ESCUTCHEONS WHERE LINES GO THROUGH FLOORS, WALLS AND CEILINGS. PROVIDE FIRE STOPPING AT RATED WALLS AND PARTITIONS.
- FABRICATE AND INSTALL HANGERS AND SUPPORTS IN COMPLIANCE WITH NFPA 13, CHAPTER 3-15 AND LOCAL CODES.

F. MATERIALS:

- F.1. ALL MATERIALS REQUIRED FOR THIS WORK SHALL BE CODE APPROVED, NEW, UNUSED, BEST OF ITS RESPECTIVE KINDS, FREE FROM DEFECTS AND OF FIRST CLASS QUALITY. BASIS OF QUALITY SHALL BE THE LATEST STANDARDS OF ASTM, ANSI FEDERAL SPECIFICATIONS, NFPA 13 OR OTHER ACCEPTABLE STANDARDS.
- F.2. CEILING MOUNTED CONCEALED SPRINKLER HEADS TO BE VICTAULIC MODEL "3802" OR EQUAL MANUFACTURER.
- F.3. SPRINKLER AND FIRE STANDPIPE PIPING FOR WET SYSTEM SHALL BE SCHEDULE 40 BLACK STEEL, CLASS 150 MALLEABLE IRON FITTINGS FOR PRESSURE ZONES ABOVE 175 PSI, RATED @ 300 PSI @150 DEGREES WATER, OIL, GAS, ASTM B16.3.
- F.4. SPRINKLER FITTINGS SHALL BE FIRELOCK GROOVED WITH FIRELOCK EZ RIDGID COUPLINGS OR APPROVED EQUAL. FITTINGS AND COUPLINGS SHALL MEET ASTM A-536, GRADE 65-45-12 WITH WORKING PRESSURE OF 350 PSI. COUPLINGS SHALL BE APPROVED FOR 365 PSI, GASKET SHALL BE GRADE "E" EPDM.
- F.5. OS&Y VALVE SHALL BE VICTAULIC GATE VALVE MODEL "771" OR APPROVED EQUAL. VALVE SHALL MEET ASTM A-126-B. WITH WORKING PRESSURE OF 250 PSI. PROVIDE TAMPER SWITCH SYSTEM SENSOR MODEL OSY2 SUPERVISORY SWITCH.
- PROVIDE VICTAULIC FIRE LOCK ZONE CONTROL MODULE MODEL No. 747M OR EQUAL MANUFACTURER. MODULE INCLUDES TEST AND DRAIN VALVE, FM APPROVED, FLOW SWITCH AND PRESSURE GUAGE.
- F.7. MECHANICAL TEES ARE NOT PERMITTED TO BE USED. INSTALL MECHANICAL GROOVED COUPLINGS AND FITTINGS FOR SIZES 2-1/2" AND LARGER AND SCREWED PIPE FITTINGS FOR PIPING 2" AND SMALLER.

G. TESTING

- G.1. PERFORM ALL REQUIRED TESTS AND OBTAIN FINAL CERTIFICATES OF INSPECTION AND APPROVAL FROM INSURANCE UNDERWRITERS AND LOCAL BUILDING
- G.2. THE CONTRACTOR SHALL TEST THE NEW PIPING AND FITTINGS BASED ON THE REQUIREMENTS OF NFPA BASED ON THE OPERATING MAXIMUM PRESSURE IN THE ZONE AND/OR THE FLOOR LEVEL THEY ARE WORKING IN. IF THE NEW WORK IS INCREASING THE OPERATING PRESSURE IN THE ZONE AND/OR FLOOR OR IN THE ENTIRE BUILDING, ALL EXISTING SYSTEMS AFFECTED BY THE NEW INCREASED PRESSURE SHALL BE TESTING PER THE REQUIREMENTS OF NFPA TO SUIT THE NEW INCREASED PRESSURE.
- G.3. TEST PIPING AND PROVE TIGHT FOR AT LEAST 1-HOURS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND/OR AS SPECIFIED. TEST SHALL BE PERFORMED IN THE PRESENCE OF OWNER'S REPRESENTATIVE AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED. FOR PRESSURE ZONES OF 175 PSI OR LESS, TEST AT 200 PSI FOR 1 HOURS AND FOR PRESSURE ZONES IN EXCESS OF 175 PSI TEST AT 50 PSI ABOVE THE MAXIMUM OPERATING PRESSURE (SHUT-OFF HEAD) IN THAT ZONE OF
- G.4. TEST SPRINKLER AND FIRE STANDPIPE PIPING AS PER NFPA 13 AND NFPA 14.
- G.5. HANGERS, SUPPORTS, ANCHORS AND SEALS SHALL CONFORM TO THE FOLLOWING STANDARDS:
- PIPE SUPPORTS: ANSI B31.1 MSS SP-58 NFPA 13
- G.6. SUBMIT CONTRACTOR'S MATERIAL AND TEST CERTIFICATE.

H. GUARANTEES

- H.1. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK UNTIL ITS COMPLETION AND FINAL ACCEPTANCE, AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED. LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE
- H.2. SPRINKLER CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED AND MATERIALS INSTALLED BY THEM TO BE FREE FROM INHERENT DEFECTS, AND SHALL KEEP IN REPAIR AND REPLACE ANY DEFECTIVE MATERIALS OF WORKMANSHIP, FREE OF COST TO THE OWNER, FOR A PERIOD OF ONE YEAR AFTER COMPLETION.
- H.3. ANY EQUIPMENT FOUND DEFECTIVE AT SUCH TESTING OR DURING THE GUARANTEE PERIOD SHALL BE REPLACED OR REPAIRED BY THIS CONTRACTOR WITHOUT ANY ADDITIONAL CHARGE. ANY LABOR, MATERIAL, EQUIPMENT OR INSTRUMENT NECESSARY FOR SUCH REPAIR OR REPLACEMENT SHALL BE INCLUDED AND FREE OF

2. SPRINKLER HEADS

a. FLUSH SPRINKLER HEADS RELIABLE MODEL G5-56 QUICK RESPONSE, SIN RA3415. FM APPROVED AND UL LISTED, ADJUSTABLE TYPE. HEADS SHALL BE 1/2" STANDARD ORIFICE WITH 1/2" NPT THREAD, 165 DEG. TEMPERATURE RATING.



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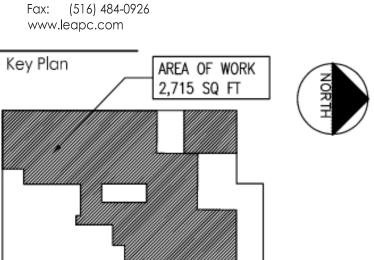
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Appd. YY.MM.DD Revision DOB FILING OMH FILING 2022.10.04 By Appd. YY.MM.DD Issued File Name: 7024.02-SP-401.dwg

Permit-Seal

Dwn. Chkd. Dsgn. YY.MM.DD

Revision

Client/Proiect

RICHMOND UNIVERSITY MEDICAL CENTER TRANSFORMATIONAL GRANT

669 CASTLETON AVENUE, STATEN ISLAND, NY SECOND FLOOR PROPOSED RENOVATION

SPRINKLER

SPECIFICATIONS

Scale Project No. 7024.02 AS NOTED Sheet Drawing No.

5 of 5