

SPRINKLER REMOVAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
- VERIFY ALL GOVERNING DIMENSIONS, PIPE SIZES AND LOCATION OF THE PIPING AND EQUIPMENT TO BE REMOVED.
- NOTIFY BUILDING MANAGER AT LEAST 48 HOURS BEFORE DEMOLITION WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES. RISER SHUT DOWNS SHALL BE PERFORMED AT TENANT'S COST, AT DESIGNATED TIMES UNDER BUILDING MANAGER'S SUPERVISION AND ONLY WITH APPROVAL.
- THE CONTRACTOR'S WORK ACTIVITIES SHALL NOT INTERFERE WITH THE BUILDING SERVICES IN ANY WAY WITHOUT THE EXPRESS PERMISSION IN WRITING BY THE BUILDING MANAGER. SUCH INTERRUPTIONS AND INTERFERENCES SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE TIME STATED BY THE BUILDING MANAGER.
- ALL EQUIPMENT, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, RELOCATED, TURNED OVER TO THE TENANT OR SALVAGED AS DIRECTED BY THE BUILDING OWNER.
- UPON COMPLETION OF ALL NEW WORK NO ABANDONED PIPING SHALL REMAIN.
- THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
- LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. FIELD VERIFY EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING AT THE SITE.
- NO REMOVED EXISTING PIPING FITTINGS, VALVES, ETC. SHALL BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING HEIGHTS.
- CONTRACTOR & ITS SUB'S SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SPRINKLERS AND RELATED PIPING AS WELL AS REMOVING SPRINKLERS AS REQUIRED TO MEET NEW PROPOSED SPRINKLER HEAD LAYOUT.
- THE CONTRACTOR SHALL INCLUDE IN THE PRICE THE COST FOR DRAINING AND FILLING THE EXISTING SPRINKLER SYSTEM IN ORDER TO FACILITATE THE SPRINKLER SCOPE OF WORK. NOTIFY ALL MONITORING SERVICES OF SHUT-DOWNS AT LEAST 48 HOURS BEFORE ANY SHUT-DOWNS.

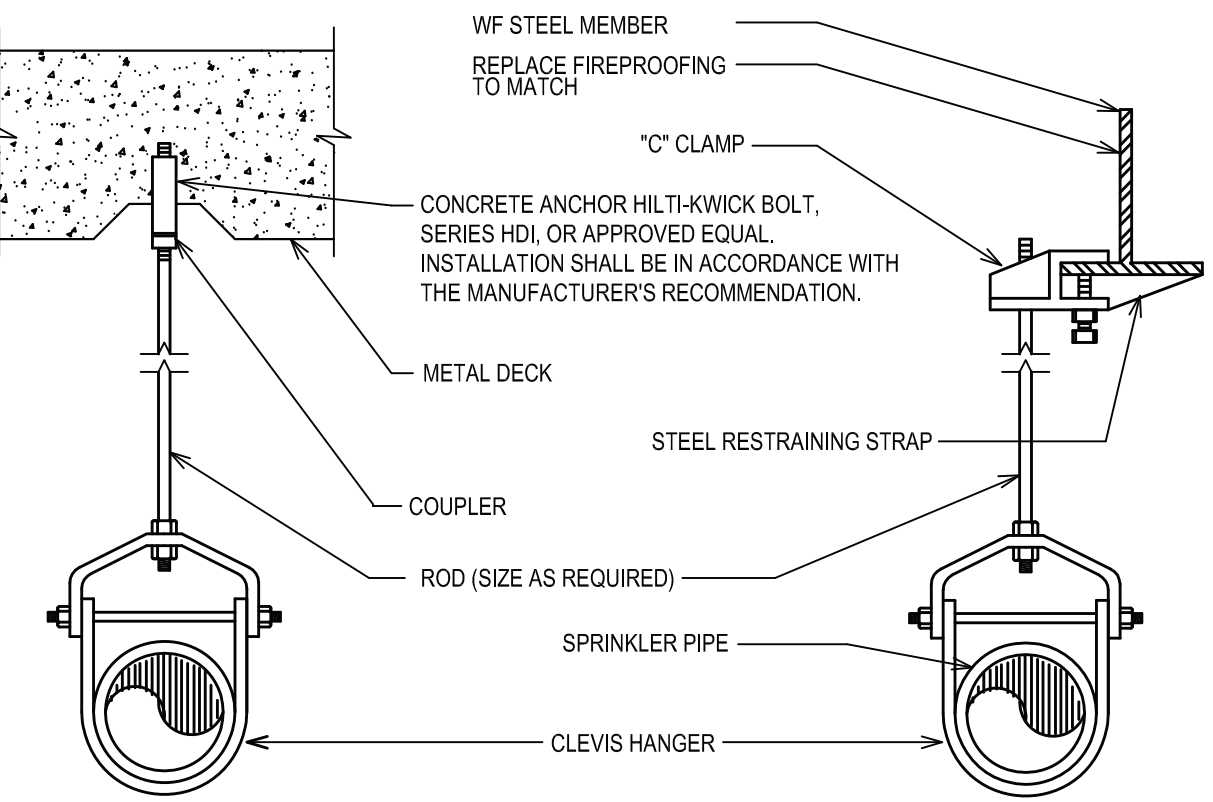
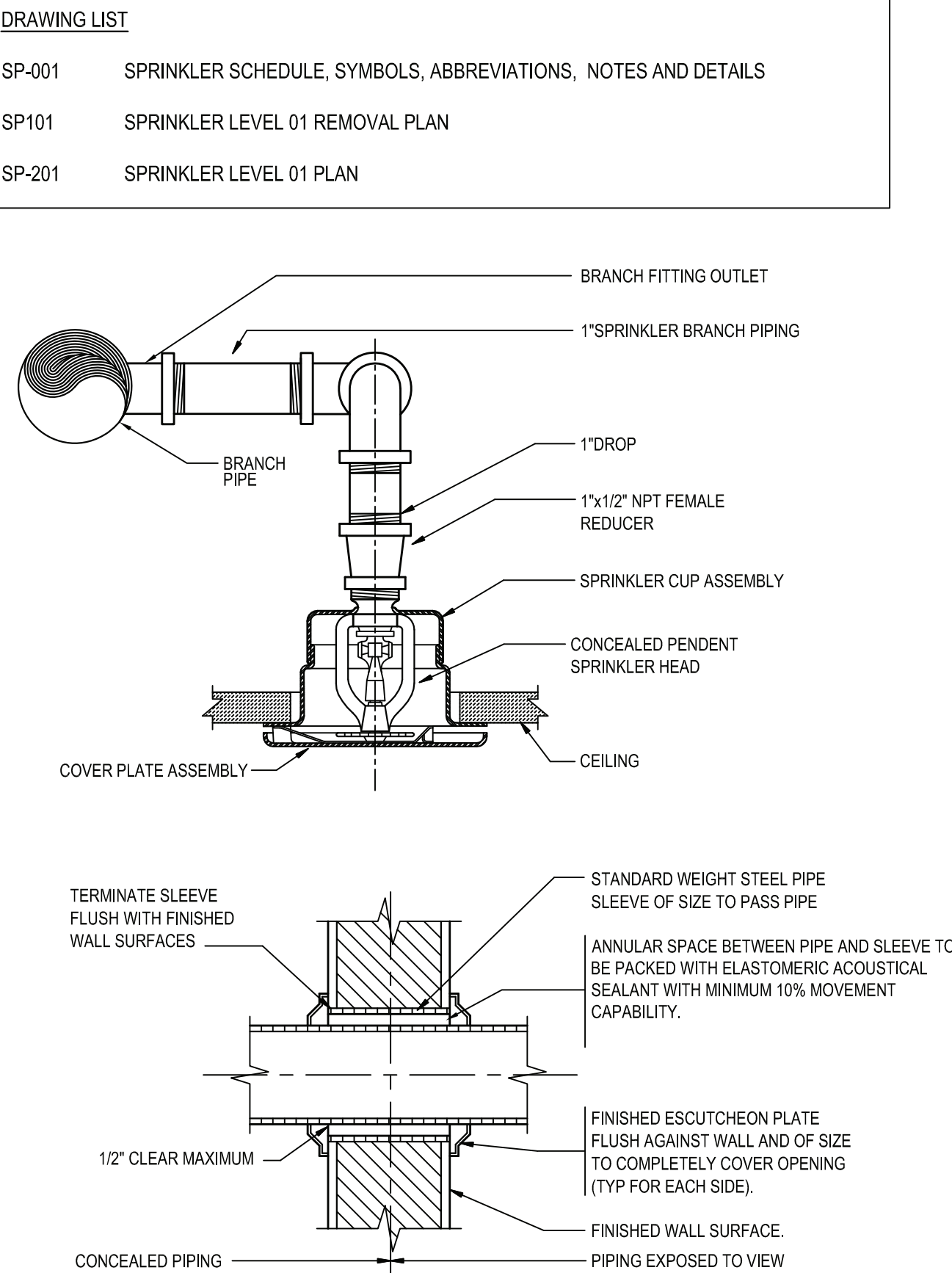
SPRINKLER NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING A FULL SET OF BID DOCUMENTS AND VISIT THE SITE TO MAKE THEMSELVES AWARE OF THE TOTAL JOB BEFORE SUBMITTING THE PRICE. FAILURE TO COMPLY SHALL NOT HOLD THE OWNER RESPONSIBLE FOR ANY ADDITIONAL COST.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH FACILITY'S BUILDING MANAGEMENT FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ARCHITECT PRIOR TO COMMENCEMENT OF SUCH WORK.
- THE CONTRACTOR SHALL INDICATE ON THE SHOP DRAWING THAT ALL PIPING LAYOUTS ARE COORDINATED WITH THE M.E.P. AND STRUCTURAL CONDITIONS. INCLUDE ON EACH WORKING DRAWING LAYOUT CERTIFICATE, THAT ALL RELATED CONDITIONS HAVE BEEN CHECKED, AND THAT NO CONFLICT EXISTS. SUBMISSION WILL NOT BE APPROVED WITHOUT SUCH CERTIFICATION.
- CONTRACTOR SHALL SUBMIT SPRINKLER HYDRAULIC CALCULATIONS FOR THE ENGINEER'S REVIEW TO VERIFY THE ADEQUACY OF THE INDICATED PIPE SIZES. SHOP DRAWINGS MUST INDICATE ALL HYDRAULIC CALCULATION NODE AND PIPE TAGS.
 - SPRINKLER PIPING SHALL BE INSTALLED AS PER APPROVED SHOP DRAWINGS.
 - CONTRACTOR SHALL BASE ALL HYDRAULIC CALCULATIONS ON THE AVAILABLE PRESSURE AND WATER FLOW DATA AT EXISTING FLOOR CONTROL ASSEMBLY.
 - PROVIDE HYDRAULICALLY DESIGNED SPRINKLER SYSTEM FOR ALL PIPING NOT SIZED.
- DRAWINGS ARE NOT TO BE SCALED.
- CONTRACTOR SHALL COMPLY WITH ALL NEW YORK CITY BUILDING DEPARTMENT AND REGULATORY AGENCIES AND CODE REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS OF ALL TRADES.
- CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS SHALL FULLY PROTECT THEM FROM ANY DAMAGE RESULTING FROM CONTRACTOR'S WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
- ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
- UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
- UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURER'S DIRECTIONS, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT.
- RELOCATE ALL EXISTING SPRINKLER MAIN AND BRANCH PIPING IN THE AREA OF WORK THAT IS IN CONFLICT WITH THE LIGHTING FIXTURES AND HVAC DUCTWORK.
- PROVIDE SPRINKLER HEADS UNDER DUCTS OVER 4'-0" IN WIDTH IN AREAS WITHOUT HUNG CEILING.
- THE CONTRACTOR SHALL ALLOW FOR FOUR (4) ADDITIONAL SPRINKLERS NOT INDICATED ON PLANS TO ACCOMMODATE FIELD CONDITIONS. ALLOW FOR SPRINKLERS BELOW AND ABOVE THE DUCTS IN MECHANICAL ROOMS IN ACCORDANCE WITH 2007 NFPA 13.
- SPRINKLERS IN MECHANICAL ROOMS SHALL HAVE AN INTERMEDIATE TEMPERATURE RATING UNLESS OTHERWISE NOTED.
- ALL UPRIGHT SPRINKLER HEADS SHALL HAVE HEAD GUARDS.
- LOCATE ALL HORIZONTAL PIPING ABOVE SUSPENDED CEILING, UNLESS THERE IS NO CEILING.
- ACCESS DOORS SHALL BE PROVIDED ADJACENT TO ALL VALVES.
- EACH CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL PENETRATIONS, CUTTING, PATCHING, SLEEVES, AND FIRE-STOPPING REQUIRED TO COMPLETE THE INSTALLATION OF ALL WORK INCLUDED UNDER THEIR CONTRACT IN ACCORDANCE WITH THE FIRE EGRESS AND SECURITY PLAN DRAWINGS AND IN ACCORDANCE WITH DIVISION 16.
- UPON COMPLETION OF THE WORK, CONTRACTOR SHALL COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE, INCLUDING REMOVAL OF ALL LABELS (AFTER ARCHITECT'S INSPECTION), CLEANING OF ALL THE EQUIPMENT, CONSTRUCTION WORK, WINDOWS AND OTHER WORK, NEW AND OLD, IN THAT CONSTRUCTION AREA.
- BUILDING DEPARTMENT APPROVED PLANS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
- AT THE FINAL COMPLETION OF THE JOB, CONTRACTOR SHALL SUBMIT TO THE FACILITY AND TO ENGINEER A NOTARIZED AFFIDAVIT STATING COMPLIANCE WITH ALL PROVISIONS OF THIS CONTRACT, INCLUDING ALL NOTES, EXCEPT FOR THOSE CHANGES SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT.
- CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL ACCEPTANCE OF ALL WORK.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL FITTINGS AND PIPING REQUIRED TO MODIFY EXISTING SPRINKLER PIPING DESIGNATED AS EXISTING TO REMAIN IF IN CONFLICT WITH NEW MEP EQUIPMENT OR NEW ARCHITECTURAL FEATURES.
- THE MINIMUM SPRINKLER BRANCH PIPE SIZE SHALL BE 1".

SPRINKLER SCHEDULE						
SYMBOL	TYPE	LOCATION	TEMPERATURE RATING	K-FACTOR	MANUFACTURER	MODEL/ID No.
			ORDINARY			
●	CONCEALED PENDENT	HUNG CEILINGS	165°F	5.6	RELIABLE	G5-56/RA3415
○	UPRIGHT	NO CEILINGS	155°F	5.6	RELIABLE	F1FR56/RA1425
	PENDENT	NO CEILINGS	155°F	5.6	RELIABLE	F1FR56/RA1414
⊗	EXISTING SPRINKLER TO BE REMOVED					
● E O E	EXISTING SPRINKLER TO REMAIN					
NOTES: <ol style="list-style-type: none">QUICK RESPONSE SPRINKLERS USED THROUGHOUT.PROVIDE INTERMEDIATE TEMPERATURE SPRINKLERS FOR MECHANICAL SPACES.						

CLASSIFICATION OF HAZARD OCCUPANCIES				
CLASSIFICATION	MAXIMUM COVERAGE PER SPRINKLER	HYDRAULIC AREA	DENSITY	ROOMS
LIGHT	225 SQ. FT.	1,500 SQ. FT. (SEE NOTE 2)	0.1 GPM/SQ. FT.	CATH LAB
NOTES: <ol style="list-style-type: none">SEE ROOM NAMES ON PLAN FOR APPLICABLE ROOM DESIGNATIONS.AREA REDUCTION PER 2007 NFPA 13 SECTION 11.2.3.2.3; 1,500 SQ.FT MINUS PERCENTAGE ALLOWED BASED ON CEILING HEIGHTS. REFER TO FLOOR PLANS ACTUAL AREA CALCULATED.				

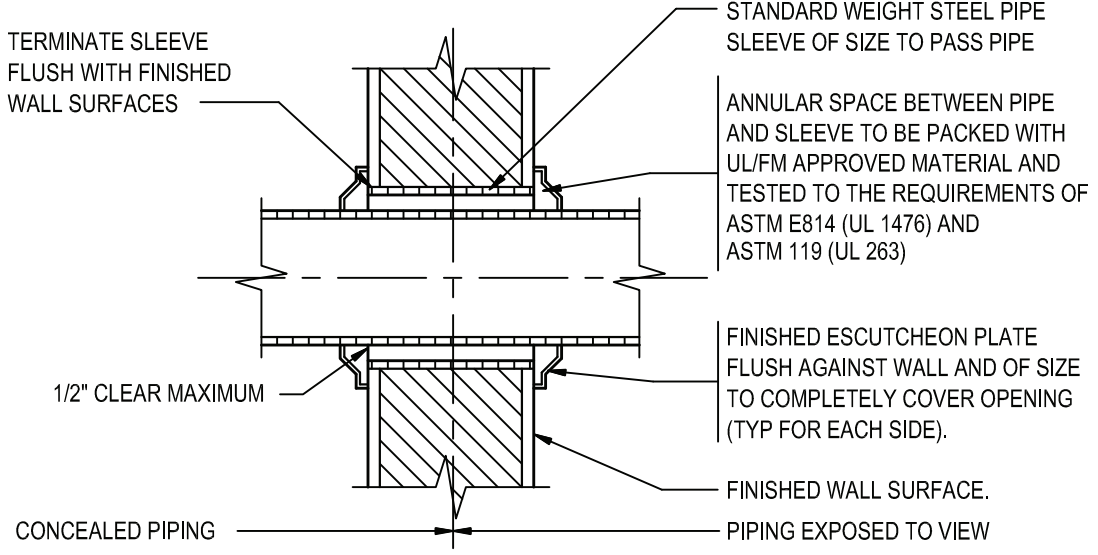
ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF THE PIPE
CH	CEILING HEIGHT
DN	DOWN
DR	DRAIN
DWG	DRAWING
EL	ELEVATION
F	FIRE SERVICE
FDC	FIRE DEPARTMENT CONNECTION
FHR	FIRE HOSE RACK
FP	FIRE PROTECTION
FSP	FIRE STAND PIPE
NTS	NOT TO SCALE
PA	PRE-ACTION
QTY	QUANTITY
SPR	SPRINKLER
SQ.FT.	SQUARE FOOT (FEET)
TEMP	TEMPERATURE
TS	TAMPER SWITCH
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY



- NOTES:
- CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1"
 - GENERAL PURPOSE HANGERS MAY BE USED ON 1" SPRINKLER PIPING ONLY.

TYPICAL HANGER
NOT TO SCALE

DETAIL OF PIPE PENETRATING
THRU NON FIRE RATED WALL
NOT TO SCALE



DETAIL OF PIPE PENETRATING
THRU FIRE RATED WALL AND FLOOR
NOT TO SCALE

SYMBOLS

—	EXISTING SPRINKLER PIPING TO REMAIN
— DR —	EXISTING SPRINKLER DRAIN PIPING TO REMAIN
////////	EXISTING PIPING TO BE REMOVED
—	SPRINKLER SYSTEM PIPING
—	FIRE STANDPIPE SYSTEM PIPING
— PA —	PRE-ACTION SYSTEM PIPING
→	DIRECTION ARROW
○	PIPE-UP UNLESS OTHERWISE NOTED
○	PIPE DROP UNLESS OTHERWISE NOTED
⌋	TOP CONNECTION
⌋	BOTTOM CONNECTION
⌋	CAPPED OUTLET
LOW — G — HIGH	DROP OR RISE
⌋	NEW CONNECTION
●	PRE-ACTION VALVE
MR	MANUAL PULL STATION
B	SUPERVISORY HORN (TAMPER SWITCH & LOW AIR ALARM)
B	MULTITONE HORN/STROBE (COMMON TROUBLE)
B	MULTITONE HORN/STROBE (WATER FLOW, SMOKE DETECTOR, MANUAL STATION &
S	SMOKE DETECTOR
⌋	FIRE HOSE RACK (RISER DIAGRAM/ELEVATION)
⌋	EXISTING FIRE HOSE RACK (RISER DIAGRAM/ELEVATION)
⌋	EXISTING FIRE HOSE RACK (RISER DIAGRAM/ELEVATION)
○	EXISTING FIRE HOSE RACK (PLAN)
⌋	EXISTING FLOOR CONTROL ASSEMBLY
FCA	EXISTING FLOOR CONTROL ASSEMBLY
⌋	EXISTING FLOOR CONTROL ASSEMBLY
⌋	EXISTING WATER FLOW DETECTOR
⌋	EXISTING SHUT-OFF VALVE
⌋	EXISTING NORMALLY CLOSED DRAIN VALVE
⌋	EXISTING CHECK VALVE
⌋	EXISTING O.S.&Y. VALVE
⌋	EXISTING O.S.&Y. VALVE WITH TAMPER SWITCH
⌋	EXISTING PRESSURE REDUCING VALVE (PRV)
⌋	EXISTING PRE-ACTION VALVE
⌋	EXISTING 3 WAY ROOF MANIFOLD
⌋	EXISTING 3 WAY ROOF MANIFOLD
⌋	EXISTING 3 WAY ROOF MANIFOLD
⌋	EXISTING SIAMESE CONNECTION
⌋	EXISTING SIAMESE CONNECTION
⌋	EXISTING PRESSURE GAUGE (PG)
⌋	EXISTING UNION
⌋	EXISTING WATER-PROOF PIPE SLEEVE
⌋	EXISTING PUMP
●	POINT OF DISCONNECTION FROM EXISTING
●	POINT OF NEW CONNECTION TO EXISTING
⌋	SHEET KEYNOTE DESIGNATION
⌋	HYDRAULIC CALCULATION NODE DESIGNATION

NOTES:

- SYMBOLS AND ABBREVIATIONS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF WORK.

GENERAL NOTES

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KEY NOTES

Date	Description
10.04.21	ISSUE FOR BID
10.12.21	ADDENDUM #1

Seal / Signature

Project Name

INTERVENTIONAL
RADIOLOGY - TARRYTOWN

Project Number

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Description

SPRINKLER
SCHEDULE, SYMBOLS,
ABBREVIATIONS, NOTES AND DETAILS

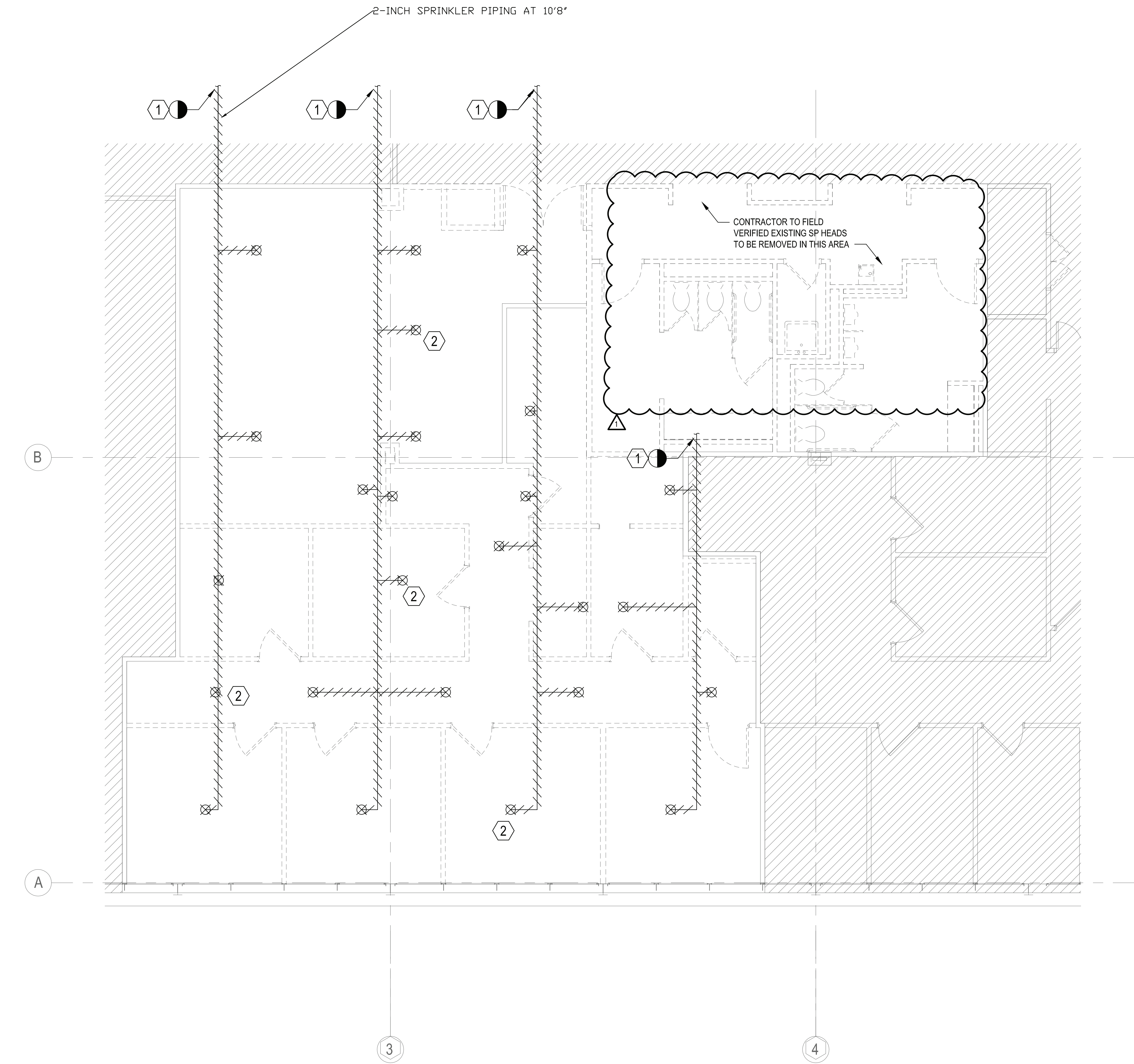
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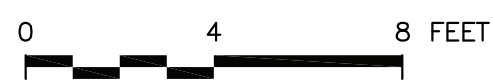
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DOB NOW JOB#



1 LEVEL 01 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



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SPRINKLER
LEVEL 01 REMOVAL PLAN

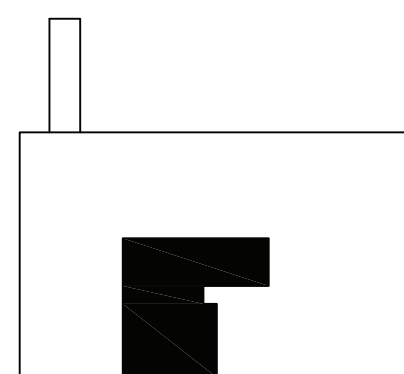
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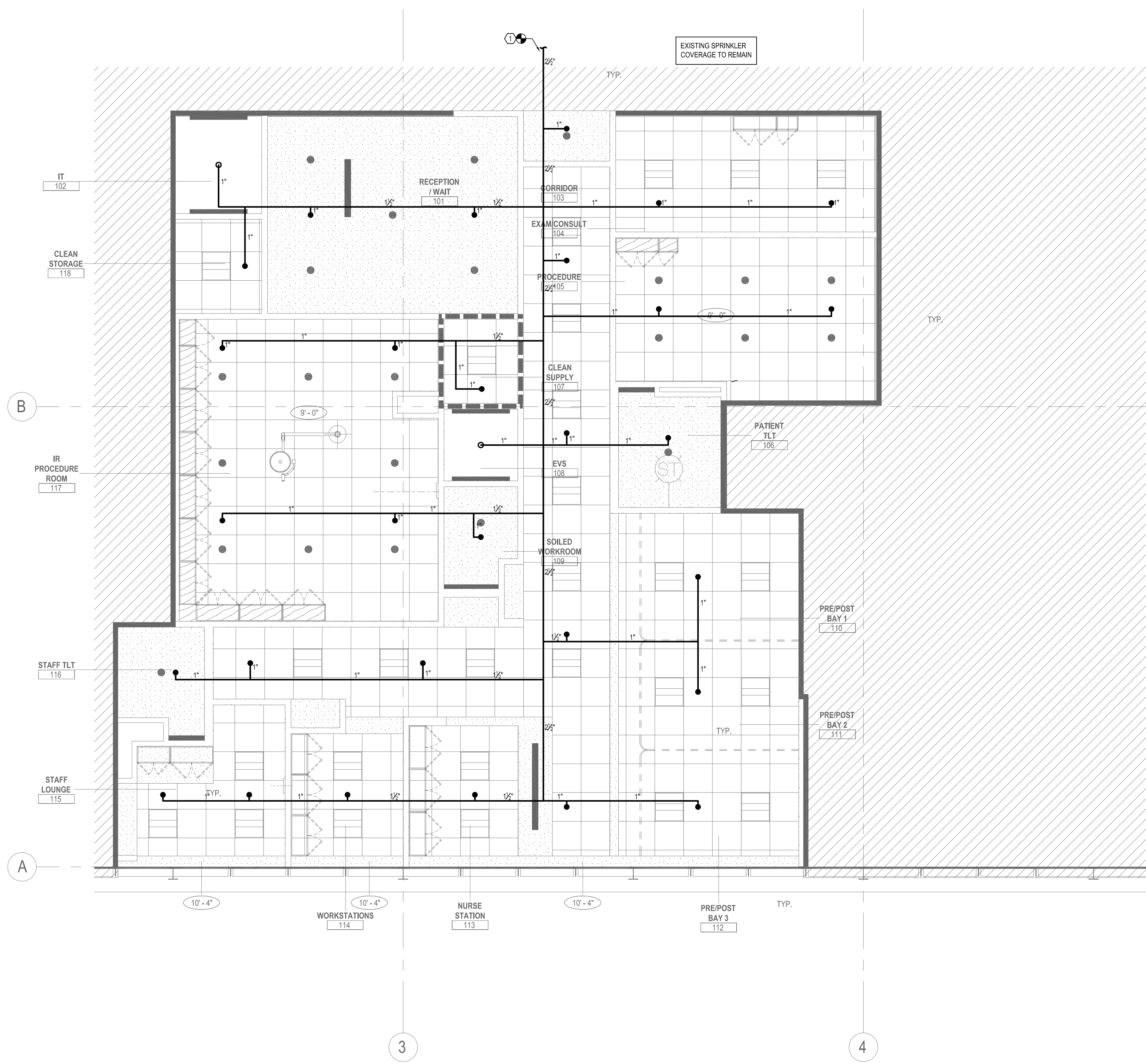
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KEY PLAN





KEY NOTES

1 CUT AND CONNECT NEW SPRINKLER SYSTEM TO EXISTING 2-1/2" SP MAIN IN CORRIDOR.

- GENERAL NOTES:**
- EXISTING SPRINKLER HEADS OUTSIDE OF SCOPE TO REMAIN.
 - COORDINATE NEW SPRINKLER PIPE WITH EXISTING TRADES.
 - COORDINATE THE ROUTING OF ALL EXISTING SPRINKLER PIPING WITH NEW EXISTING DUCTS AND NEW EXISTING LIGHT FIXTURES.
 - CONTRACTOR SHALL VERIFY IN FIELD EXISTING CONDITIONS BEFORE PROCEEDING WITH WORK. PRESSURE AVAILABLE AT FLOOR. LOCATION OF EXISTING FIRE STANDPIPE AND/OR SPRINKLER RISERS, ETC.
 - CONTRACTOR SHALL PROVIDE AUXILIARY DRAINS WHERE A CHANGE IN PIPING DIRECTIONS PREVENTS DRAINAGE OF SYSTEM PIPING THROUGH MAIN DRAIN VALVE AS PER NFPA 2007 EDITION - SUBCHAPTER 8.16.2.5. AUXILIARY DRAINS.
 - PROVIDE A FIRE WATCH FOR THE DURATION OF THE SPRINKLER SHUT-DOWN. RESTORE SPRINKLER SYSTEM TO ACTIVE CONDITIONS WHEN THE FIRE WATCH IS NOT PROVIDED. COORDINATE SCHEDULING WITH BUILDING MANAGEMENT.

1 LEVEL 01 SPRINKLER PLAN
SCALE: 1/4" = 1'-0"

0 4 8 FEET

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SPRINKLER
LEVEL 01 PLAN

Scale

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