

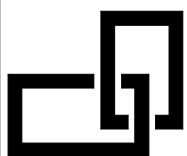
CORNELL UNIVERSITY BARNES HALL FIRST FLOOR SPRINKLER INSTALL

129 HO PLAZA
ITHACA, NY 14853



DRAWING LIST

GENERAL	
G001	COVER SHEET
ARCHITECTURAL	
AD111	FIRST FLOOR REFLECTED CEILING PLAN - EXISTING
A100	OVERALL PLAN / KEY PLAN
A111	FIRST FLOOR REFLECTED CEILING PLAN - PROPOSED
A112	ENLARGED CEILING PLAN - ROOM 100
A113	ENLARGED CEILING PLAN - ROOM 103E
MECHANICAL	
SM101	FIRST FLOOR DUCTWORK PLAN
FIRE PROTECTION	
F001	FIRE PROTECTION LEGEND SHEET
FD101	FIRST FLOOR FIRE PROTECTION PLAN- DEMOLITION
F101	FIRST FLOOR ABOVE AND BELOW CEILING FIRE PROTECTION PLAN
F501	FIRE PROTECTION DETAILS
ELECTRICAL	
E201	FIRST FLOOR LIGHTING PLAN



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PROJECT NAME: BARNES HALL FIRST FLOOR SPRINKLER INSTALL CLIENT: CORNELL UNIVERSITY
PROJECT ADDRESS: 129 HO PLAZA PROJECT #: 2242165
ITHACA, NY 14853

PROJECT STATUS: CONSTRUCTION
ISSUE DATE: 12/05/25

1. ALL ASBESTOS ABATEMENT WORK TO BE DONE UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH CODE RULE 56 OF NEW YORK STATE RULES AND REGULATIONS, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. IN LIEU OF THE ABOVE REFERENCED REQUIREMENTS, THE CONTRACTOR MAY APPLY FOR A SITE-SPECIFIC VARIANCE. TO UTILIZE A SITE-SPECIFIC VARIANCE THE CONTRACTOR SHALL MEET ALL CONDITIONS OF THE VARIANCE, AS STATED BY THE NYS DEPARTMENT OF LABOR. ALL COSTS ASSOCIATED WITH THE APPLICATION OF SITE-SPECIFIC VARIANCES SHALL BE BORNE BY THE CONTRACTOR. ALL PROPOSED SITE-SPECIFIC VARIANCES SHALL BE REVIEWED BY THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO SUBMITTAL TO THE NYSDOH.
3. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL, OR SUSPECT MATERIAL, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.
4. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT BE LIABLE FOR THEFT OR DAMAGE.
5. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION. CONTRACTOR SHALL ENSURE THAT CERTIFIED PERSONNEL OR UNAUTHORIZED VISITORS DO NOT ENTER ACTIVE WORK AREAS AT ANY TIME.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY PROTECTION TO KEEP THE BUILDING IN A WATERTIGHT CONDITION AND TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES DURING THE DURATION OF THE PROJECT. REPAIR OR DAMAGE CAUSED AS A RESULT OF IMPROPER TEMPORARY PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE LOCATION OF ANY SITE STORAGE OF MATERIAL, EQUIPMENT, AND WASTE TRAILER / DUMPSTER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
8. THE OWNER SHALL BE RESPONSIBLE FOR HIRING AND PAYING AN INDEPENDENT THIRD PARTY FIRM TO PERFORM ALL OF THE REQUIREMENTS OF MONITORING AS CALLED FOR IN CODE RULE 56.
9. MARKED AREAS DEPICTING WORK AREAS ARE APPROXIMATE ONLY. EXACT CUTOFF POINTS SHALL BE COORDINATED BY THE CONTRACTOR WITH OWNER'S REPRESENTATIVE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCESS AND ABATE MATERIALS SCHEDULED FOR REMOVAL.

11. ANY AND ALL ASSUMED ASBESTOS-CONTAINING MATERIALS SHALL BE ABATED AS ACM UNTIL TESTED OR PROVEN TO BE NEGATIVE OTHERWISE.
12. IF ADDITIONAL SUSPECT ACM IS DISCOVERED DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER IMMEDIATELY.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CURRENT WASTE HANDLING, TRANSPORTATION AND DISPOSAL REGULATIONS FOR THE WORK. THE CONTRACTOR MUST DISPOSE OF ALL ASBESTOS MATERIALS REMOVED AND COMPLY FULLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
14. THE CONDITIONS SHOWN ON THIS DRAWING ARE BASED ON FIELD OBSERVATIONS AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. CONSEQUENCES OF FAILURE TO FIELD VERIFY CONDITIONS SHALL BE BORNE BY THE CONTRACTOR. MORE INFORMATION ON THE KNOWN ASBESTOS-CONTAINING MATERIALS ASSOCIATED WITH THIS PROJECT CAN BE FOUND IN THE PROJECT MANUAL.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING WATER AND ELECTRICAL UTILITY CONNECTIONS REQUIRED OF ABATEMENT PROCEDURES. COORDINATE WITH BUILDING OWNER OR OWNER'S REPRESENTATIVE.

HM1 IN AREAS INDICATED, REMOVE AND DISPOSE OF ATTACHED 12" x 12" CEILING TILE, ASSOCIATED ASBESTOS-CONTAINING CEILING TILE MASTIC, AND EXISTING GWB / PLASTER CEILING. CONTRACTOR SHALL REMOVE ANY AND ALL CEILING-MOUNTED FIXTURES AS NECESSARY TO FACILITATE FULL REMOVAL. MASTIC AND ASSOCIATED MATERIALS SHALL BE DISPOSED OF AS AN ACM

- CEILING REMOVAL CAN START ONCE THE BUILDING PERMIT IS APPROVED AND PRIOR TO SPRINKLER SUBMITTALS TO THE AHJ

- REMOVE EXISTING CEILING SYSTEMS IN THEIR ENTIRETY AS INDICATED BY \\\ HATCHING (UNLESS OTHERWISE NOTED).
- GWB / PLASTER ON SUSPENDED HAT CHANNEL & COLD ROLLED CHANNEL FRAMING
- EXPOSED GRID SUSPENDED CEILING SYSTEM
- SURFACE APPLIED 12x12 SYSTEM ON GWB / PLASTER (SEE ABATEMENT NOTES)

- MULTIPLE LAYERED CEILINGS (CEILINGS ABOVE SUSPENDED CEILINGS) WERE NOT FOUND DURING DESIGN EXPLORATION. CONTRACTOR TO REMOVE ALL LAYERS OF CEILINGS TO EXPOSE FLOOR JOISTS AND SPRINKLER SYSTEM

- AT ROOMS 100 & 103E, REMOVE PORTIONS OF EXISTING GWB / PLASTER FINISH TO THE EXTENT REQUIRED TO ACCESS SPACE ABOVE FOR SPRINKLER INSTALLATIONS. EXISTING SUSPENDED FRAMING AND PORTIONS OF GWB / PLASTER TO REMAIN

- CEILING AREAS TO REMAIN ARE INDICATED 'ETR'

- CEILING AREAS TO BE REMOVED AND REINSTALLED ARE INDICATED 'R&R'. TEMPORARILY SUPPORT LIGHTS & DIFFUSERS

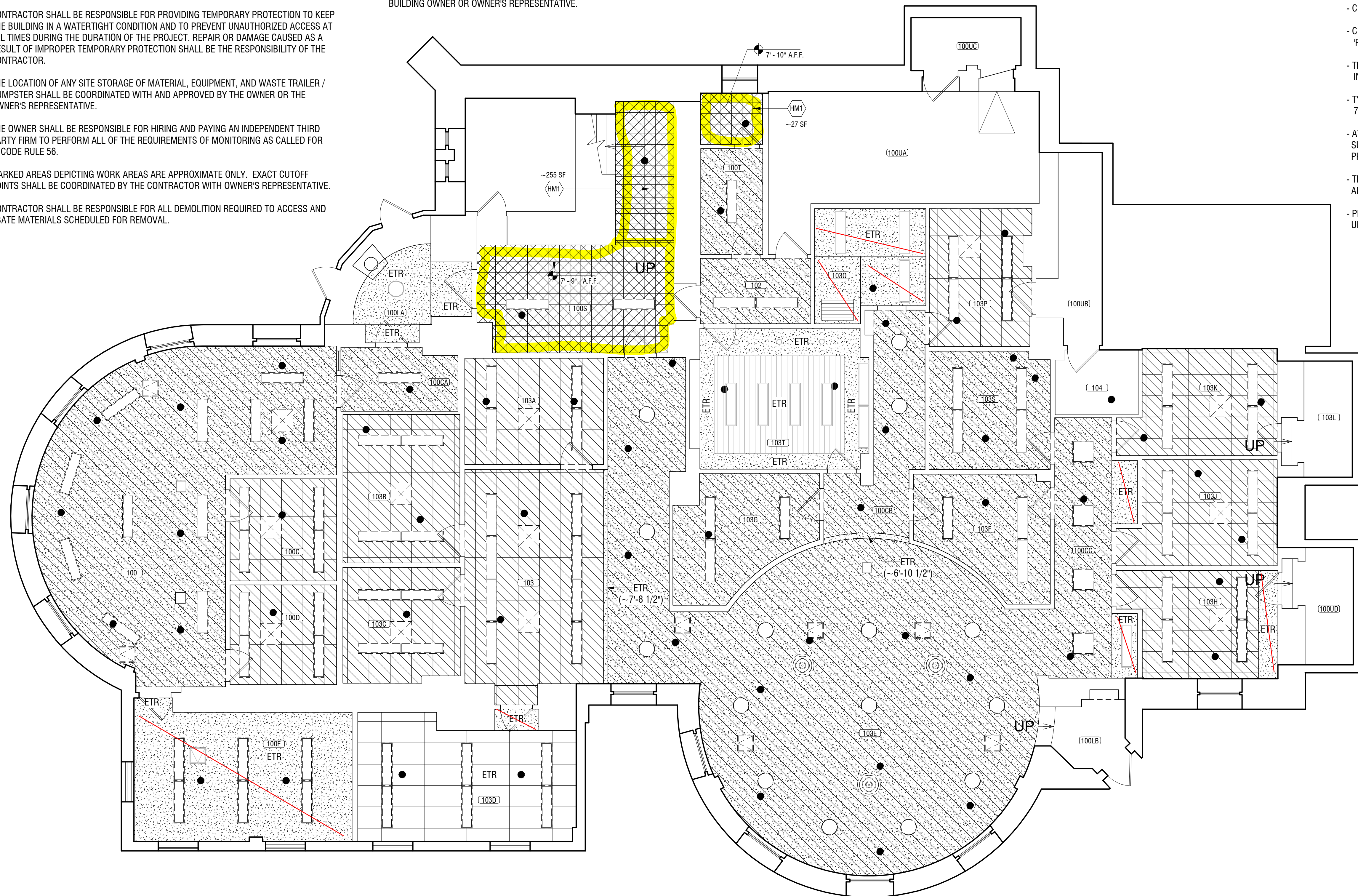
- TEMPORARILY SUPPORT DIFFUSERS FOR REINSTALLATION IN NEW CEILING SYSTEM

- TYPICAL EXISTING CEILING HEIGHTS ARE
7' - 10" +/- UNLESS OTHERWISE NOTED

- AT EXISTING 'HARD' CEILING REMOVALS BEING REPLACED WITH SUSPENDED CEILING SYSTEMS, PATCH & PAINT TOP OF WALL IN PREPARATION FOR SUSPENDED CEILING EDGE ANGLE INSTALLATION

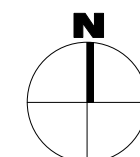
- THE CONTRACTOR IS TO PROTECT ALL PERSONAL OFFICE FURNITURE AND EQUIPMENT

- PROVIDE \$5,000 ALLOWANCE FOR T&M (TIME & MATERIALS) FOR UNFORSEEN CEILING DEMOLITION WORK, IF NEEDED



1 FIRST FLOOR REFLECTED CEILING PLAN - EXISTING
AD111 SCALE: 3/16" = 1'-0"

SCALE: $3/16" = 1'-0"$



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100 West Water Street, Suite 101
Elmira, NY 14901
607-734-8492
labellapc.com



Expiration: September 2026

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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CORNELL UNIVERSITY

ITHACA, NY 14853



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129 HO PLAZA
ITHACA, NY 14853

NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242165

DRAWN BY: IDB

REVIEWED BY: SAD

ISSUED FOR: CONSTRUCTION

DATE: 12/05/25

DRAWING NAME:

**FIRST FLOOR REFLECTED
CEILING PLAN - EXISTING**

DRAWING NUMBER:

AD111



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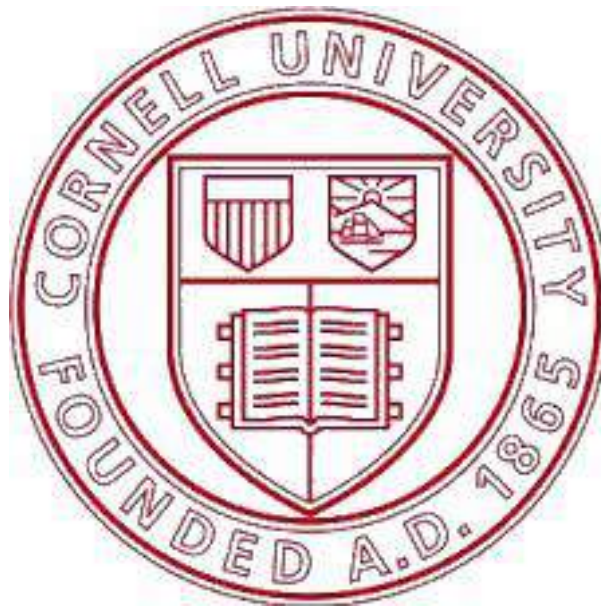
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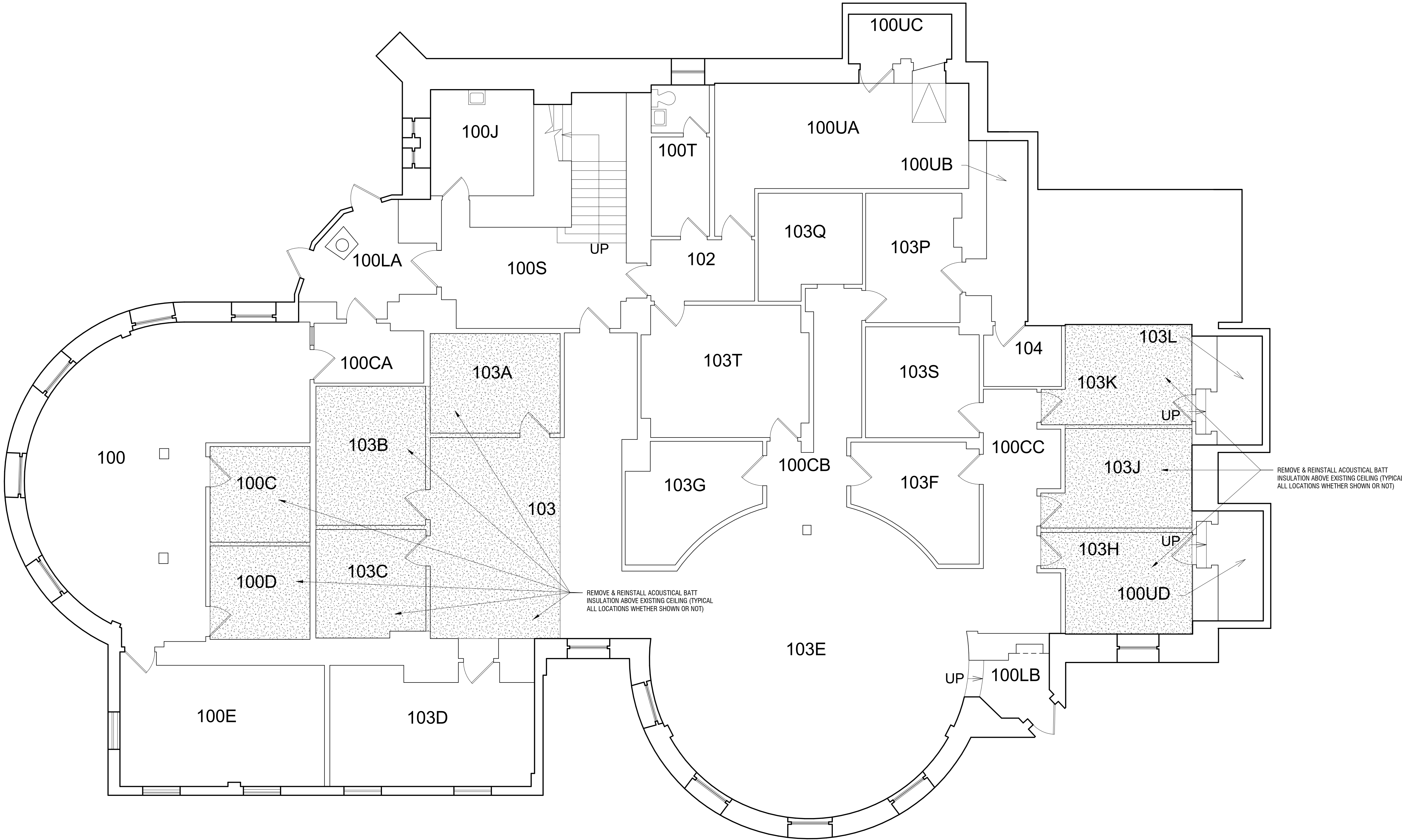
CORNELL UNIVERSITY

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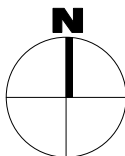


**BARNES HALL FIRST FLOOR
SPRINKLER INSTALL**

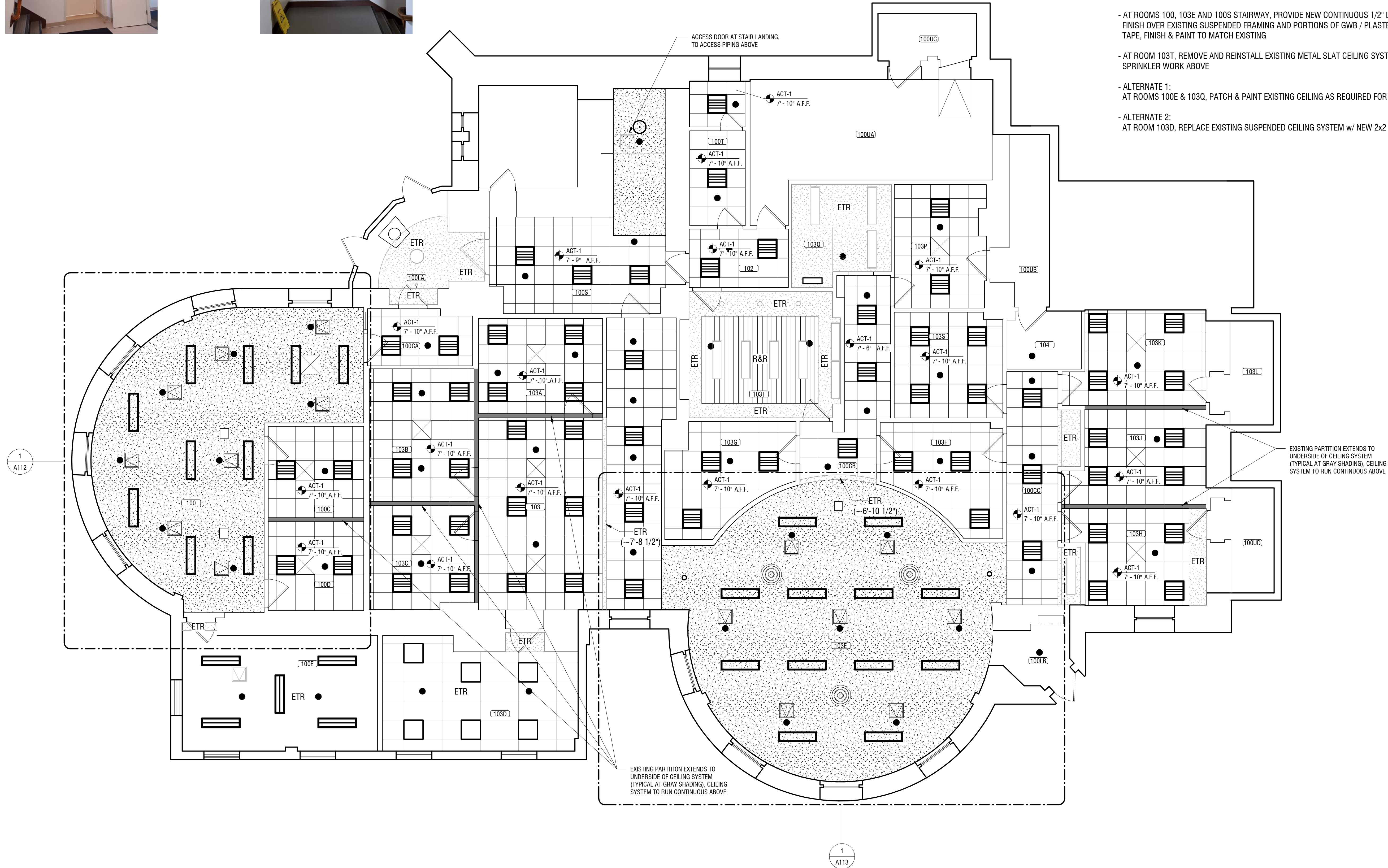
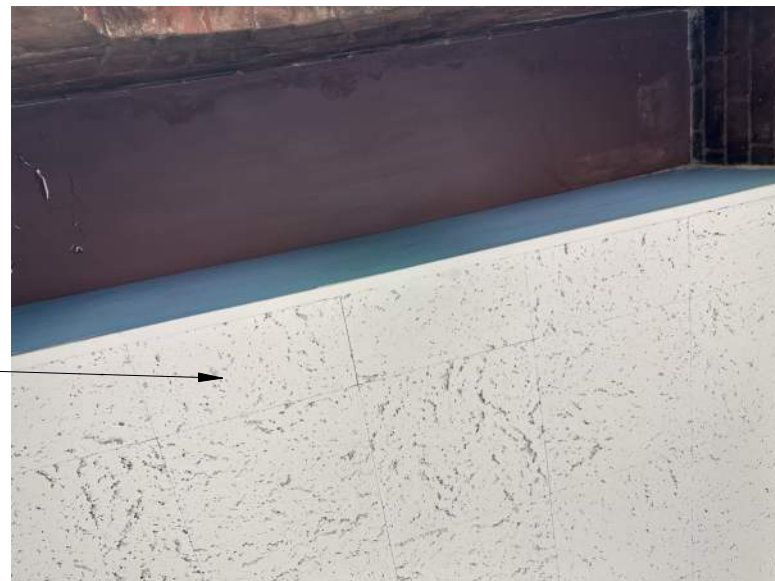
129 HO PLAZA
ITHACA, NY 14853



1
A100
OVERALL PLAN / KEY PLAN
SCALE: 3/16" = 1'-0"
0' 2' 4' 8' 12'



A100



INSTALLATION NOTES:

- ACT-1: PROVIDE 2x2 SUSPENDED CEILING SYSTEM AS INDICATED:

- BASIS-OF-DESIGN: ARMSTRONG
- 15/16" PRELUDE SUSPENSION GRID
- OPTIMA SQUARE EDGE PANELS

- TYPICAL EXISTING CEILING HEIGHTS ARE 7' - 10" +/- . NEW CEILING HEIGHTS TO MATCH EXISTING TO GREATEST EXTENT POSSIBLE. IF HEIGHT CANNOT BE MATCHED, REVIEW PROPOSED HEIGHT ON A CASE-BY-CASE BASIS w/ UNIVERSITY ARCHITECT PRIOR TO INSTALLATION

- AT EXISTING 'HARD' CEILING REMOVALS BEING REPLACED WITH SUSPENDED CEILING SYSTEMS, PATCH & PAINT TOP OF WALL IN PREPARATION FOR SUSPENDED CEILING EDGE ANGLE INSTALLATION

- THE GENERAL CONTRACTOR IS TO INSTALL A 16" x 16" LOCKABLE STEEL ACCESS DOOR IN GWB / PLASTER CEILINGS, ADJACENT TO EACH 'ABOVE CEILING' SPRINKLER HEAD, WITHIN 12" TO ALLOW FOR SERVICE OF THE HEAD. THE ACCESS DOOR LOCATIONS NOTED ON THE FIRE PROTECTION DRAWINGS AND THE GENERAL CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. THE FINAL QUANTITY / LOCATION IS TO BE COORDINATED WITH THE APPROVED FIRE PROTECTION CONTRACTORS SHOP DRAWING

- AT ROOMS 100, 103E AND 100S STAIRWAY, PROVIDE NEW CONTINUOUS 1/2" LIGHTWEIGHT GWB FINISH OVER EXISTING SUSPENDED FRAMING AND PORTIONS OF GWB / PLASTER TO REMAIN. TAPE, FINISH & PAINT TO MATCH EXISTING

- AT ROOM 103T, REMOVE AND REINSTALL EXISTING METAL SLAT CEILING SYSTEM AS REQUIRED FOR SPRINKLER WORK ABOVE

- ALTERNATE 1:
AT ROOMS 100E & 103Q, PATCH & PAINT EXISTING CEILING AS REQUIRED FOR LIGHTING UPGRADES

- ALTERNATE 2:
AT ROOM 103D, REPLACE EXISTING SUSPENDED CEILING SYSTEM w/ NEW 2x2 SUSPENDED CEILING SYSTEM



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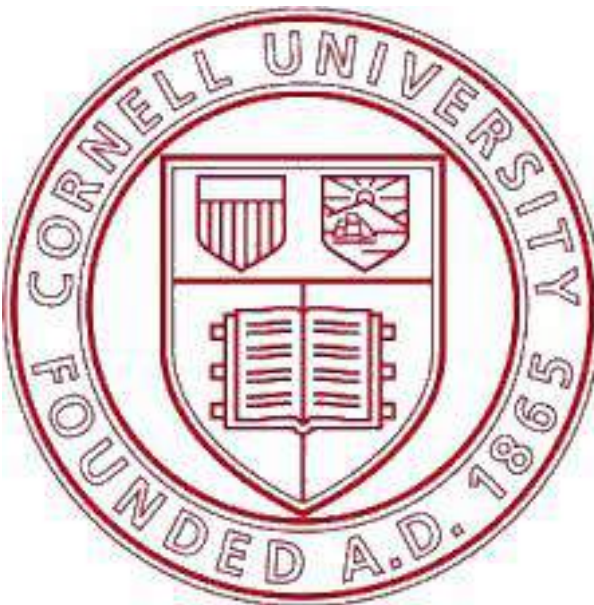
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LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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129 HO PLAZA
ITHACA, NY 14853

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242165

DRAWN BY: JPB

REVIEWED BY: SAD

ISSUED FOR: CONSTRUCTION

DATE: 12/05/25

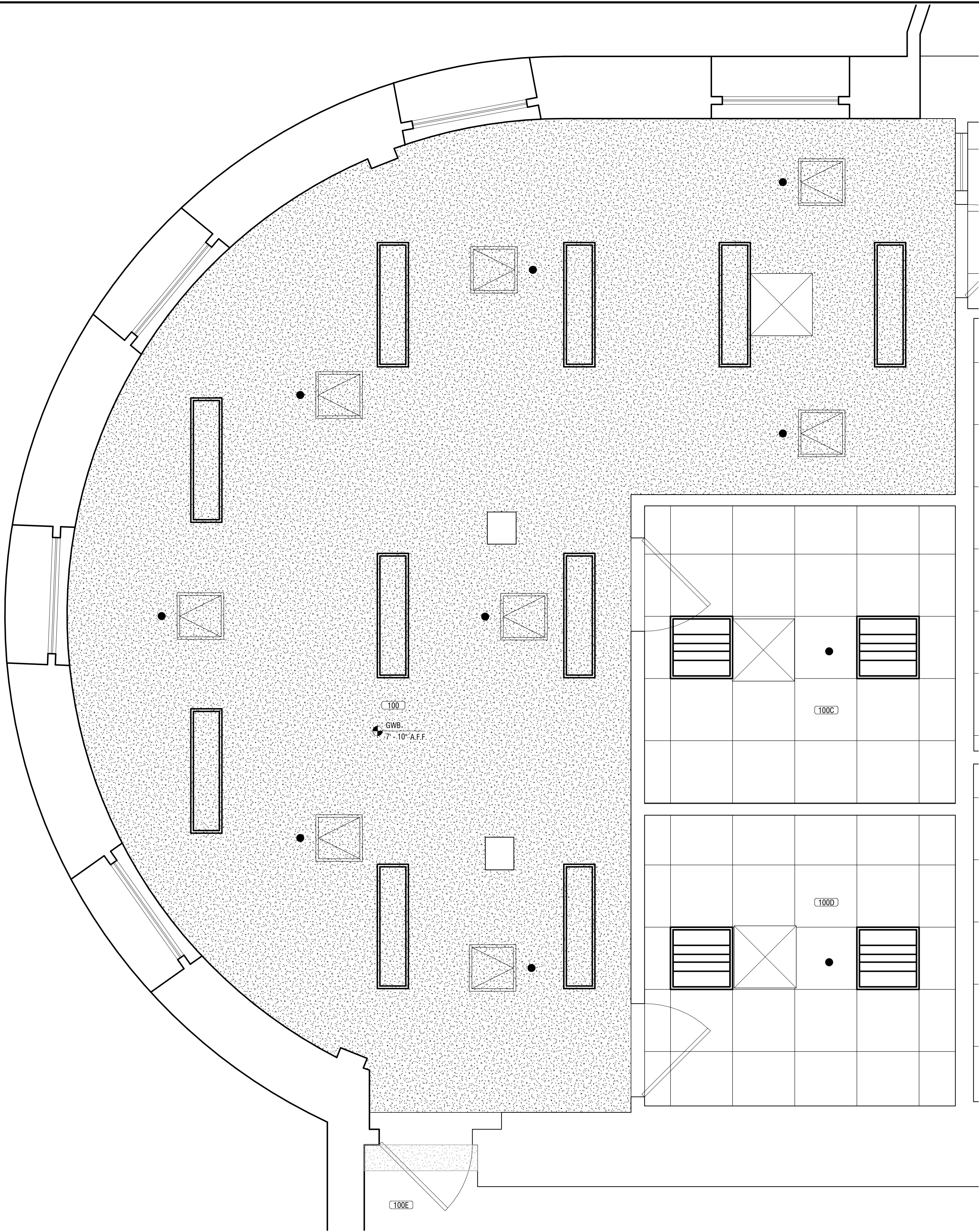
DRAWING NAME:

**FIRST FLOOR REFLECTED
CEILING PLAN - PROPOSED**

DRAWING NUMBER:

A111

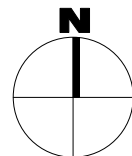
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A112

ENLARGED CEILING PLAN - ROOM 100

SCALE: 1/2" = 1'-0"



Expiration: September 2026

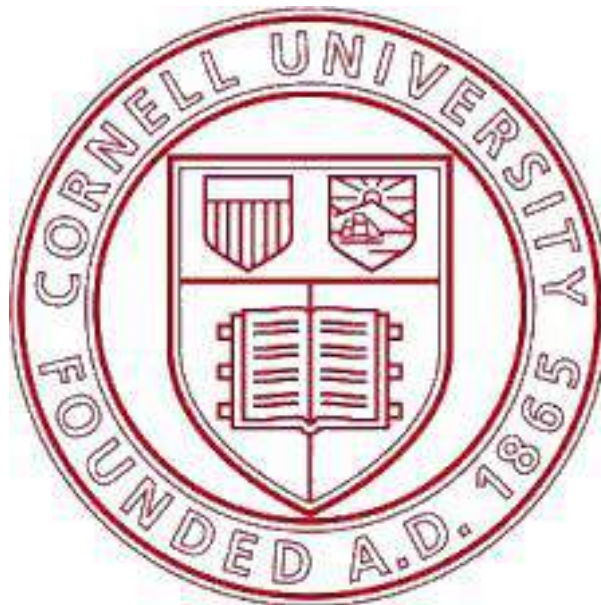
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DRAWING NAME:

**ENLARGED CEILING PLAN -
ROOM 100**

DRAWING NUMBER:

A112



Expiration: September 2026

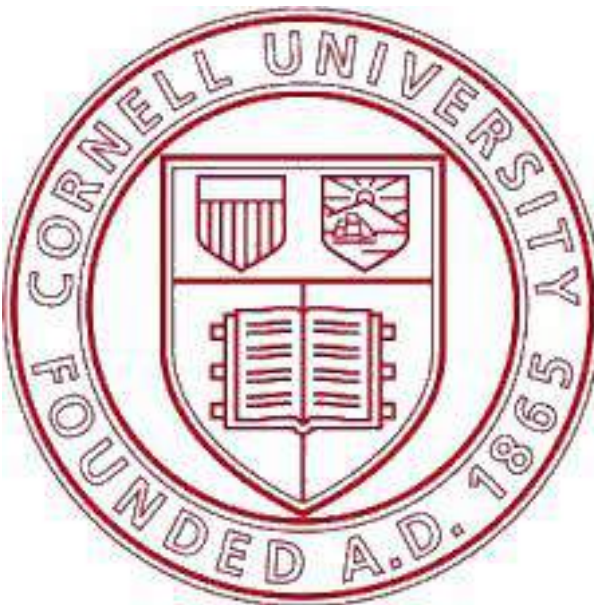
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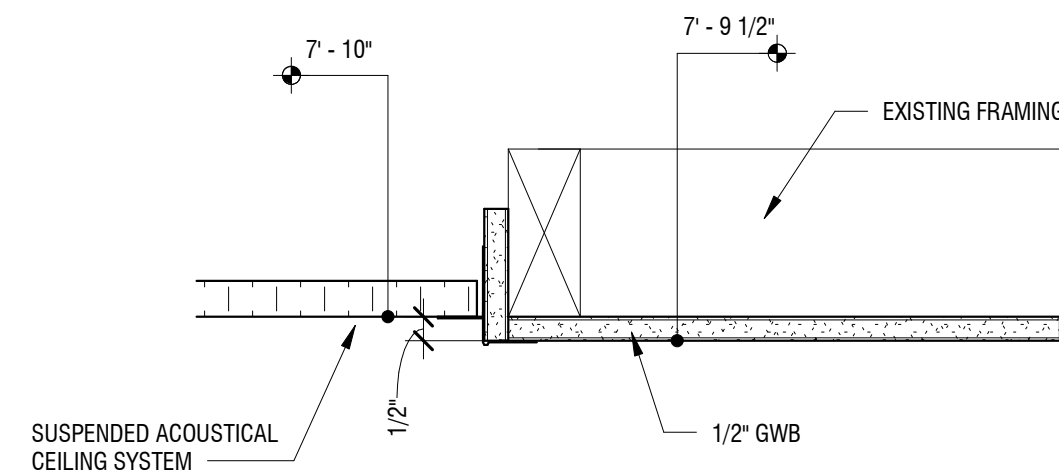
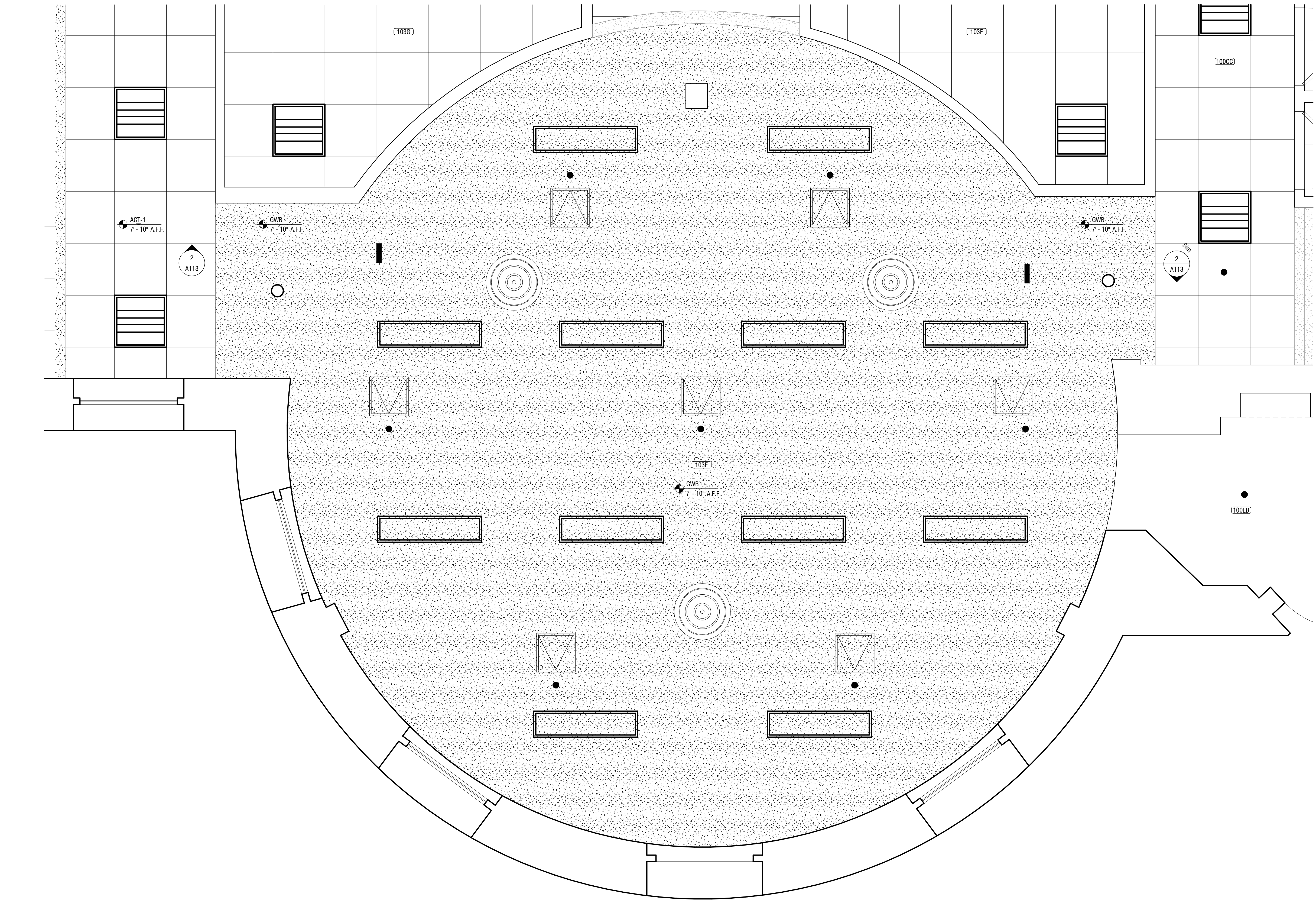
DATE: 12/05/25

DRAWING NAME:

ENLARGED CEILING PLAN - ROOM 103E

DRAWING NUMBER:

A113



2 SECTION / DETAIL 1
A113 SCALE: 3" = 1'-0"

1 ENLARGED CEILING PLAN - ROOM 103E
A113 SCALE: 1/2" = 1'-0"



1 FIRST FLOOR DUCTWORK PLAN
SM101 1/8" = 1'-0"

HVAC SYSTEM NOTES

1. PRIOR TO DEMOLITION, THE MECHANICAL CONTRACTOR IS TO PERFORM A SYSTEM TEST AND DOCUMENT AIR FLOW FOR ALL DIFFUSERS AND GRILLES ON THE FIRST FLOOR.
2. REMOVE EXISTING DIFFUSERS FROM CEILING. INSTALL DIFFUSERS IN NEW CEILING.
3. DIFFUSERS ARE GENERALLY CONNECTED USING FLEXDUCT, REPLACE FLEX CONNECTION AND SEAL CONNECTIONS TO SHEET METAL DUCTS.
4. WHERE DIFFUSERS ARE CONNECTED USING RIGID DUCT, REMOVE DUCT AND INSTALL FLEX DUCT TO NEW DIFFUSER LOCATION. LIMIT FLEX DUCT TO 3'-0" MAXIMUM LENGTH.
5. CONDUCT AIR FLOW TESTS ON SYSTEM AND BALANCE TO ORIGINAL AIR FLOW RATE.
6. SUBMIT BALANCE REPORT TO ENGINEER AND OWNER.
7. PROVIDE NEW DIFFUSERS ANYWHERE EXISTING CEILINGS HAVE CHANGED.

KEY

- EXHAUST GRILLE
- SUPPLY DIFFUSER
- RETURN GRILLE



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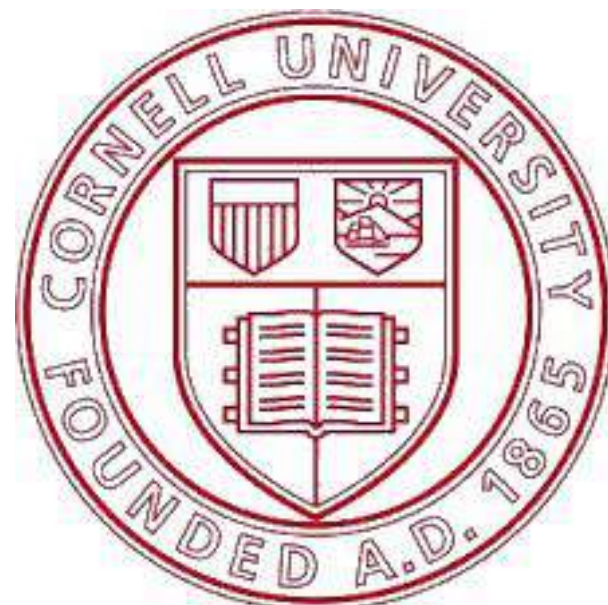
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SPRINKLER INSTALL

129 HO PLAZA
ITHACA, NY 14853

NO.	DATE:	DESCRIPTION:
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PROJECT NUMBER: 2242165

DRAWN BY: SIK

REVIEWED BY: SAD

ISSUED FOR: CONSTRUCTION

DATE: 12/05/25

DRAWING NAME:

FIRST FLOOR DUCTWORK
PLAN

DRAWING NUMBER:

SM101

GENERAL NOTES

1. BY EXECUTING THE CONSTRUCTION AGREEMENT, THE CONTRACTOR REPRESENTS THAT THEY HAVE VISITED THE SITE, FAMILIARIZED THEMSELVES WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, CORRELATED THEIR OBSERVATIONS WITH ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND IS AWARE OF THE OWNER'S INTENDED USE OF THE PROJECT AREA. ANY AREAS WHERE ADDITIONAL INFORMATION ARE TO BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER, IN WRITING.
2. THE CONTRACTOR SHALL INSTALL WORK SUBSTANTIALLY AS INDICATED ON THE DRAWINGS. VERIFY EXACT LOCATION AND ELEVATIONS AT THE SITE. DO NOT SCALE THE DRAWINGS. MAKE NECESSARY CHANGES IN ELEVATION, FITTINGS, OR OFFSETS TO ACCOMMODATE OBSTACLES OR INTERFERENCES. ALL DIMENSIONS ARE TO BE FIELD VERIFIED BEFORE START OF WORK.
3. THE CONTRACTOR IS TO PROTECT FURNISHINGS, EQUIPMENT, ETC. AND PROPERLY STORE MATERIAL REQUIRED UNTIL COMPLETION OF THE PROJECT.
4. CONTRACTOR TO VERIFY ALL MEASUREMENTS BEFORE ORDERING MATERIALS OR DOING ANY WORK. NO EXTRA COMPENSATION OR CHANGE ORDERS WILL BE ISSUED DUE TO DIFFERENCES BETWEEN ACTUAL MEASUREMENT AND DIMENSIONS ON THE DRAWINGS. CONTRACTOR SHALL LAY OUT ALL EQUIPMENT PRIOR TO FABRICATION OR INSTALLATION TO ASSURE PROPER FIT AND AVOIDANCE OF OBSTRUCTIONS, AND SHALL THOROUGHLY COORDINATE WORK WITH ALL TRADES AND DETERMINE EXACT ROUTE AND LOCATION OF EACH ELEMENT AND PIECE OF EQUIPMENT BEFORE FABRICATION AND INSTALLATION.
5. SYSTEM PIPING IS PARTIALLY VERIFIED, CONTRACTOR TO FIELD VERIFY ALL PIPING ON 1ST FLOOR TO DEVELOP SHOP DRAWINGS AND HYDRAULIC CALCULATIONS.
6. CONTRACTOR IS TO BE RESPONSIBLE FOR KEEPING THE GENERAL WORK AREA CLEAN AND FREE FROM DIRT AND CONSTRUCTION MATERIALS, AND CLEANING THE AREA THE END OF EACH DAY. ANY AND ALL DAMAGE TO THE EXISTING WALLS, CEILINGS, FLOOR, ETC. THAT OCCURS DURING THE WORK, SHALL BE REPAIRED AND PATCHED AT THE CONTRACTOR'S EXPENSE. IF THE SPECIFIC METHOD OF REPAIR IS IN QUESTION, THE CONTRACTOR IS TO CONFER WITH THE OWNER'S REPRESENTATIVE BEFORE COMMENCING THE REPAIR.
7. THE CONTRACTOR SHALL MAINTAIN ON THE SITE FOR THE OWNER A COMPLETE SET OF CONTRACT DOCUMENTS AND ALL COPIES OF APPROVED SHOP DRAWINGS, CHANGE ORDERS, FIELD ORDERS, AND BULLETINS PROGRESSIVELY FILED AND UPDATED TO REFLECT THE LATEST CHANGES.
8. THE CONTRACTOR IS TO PROVIDE AS-BUILT DRAWINGS AT THE COMPLETION OF THE PROJECT.
9. CONTRACTOR ACKNOWLEDGES THEY HAVE VERIFIED WITH THE OWNER'S REPRESENTATIVE ALL OF THE DETAILS OF THE WORK PERFORMED INCLUDING THE ACCURACY OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS. ALL MATERIALS AND EQUIPMENT ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE.
10. ALL DEFECTS IN EQUIPMENT OR MATERIALS, OR ERRORS IN THE DRAWINGS DISCOVERED DURING THE PERFORMANCE OF THE WORK SHALL BE REPORTED PROMPTLY TO THE OWNER'S REPRESENTATIVE. IN NO EVENT SHALL THE WORK PROCEED UNTIL DEFECTS AND/OR ERRORS HAVE BEEN RESOLVED.
11. THE CONTRACTOR IS TO PROTECT PERSONAL OFFICE FURNITURE AND EQUIPMENT.

CODES AND REGULATIONS:

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK, BOTH ON AND OFF SITE. IF ANY OF THE CONTRACT DOCUMENTS ARE AT VARIANCE THEREWITH IN ANY RESPECT, CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING.
2. CONTRACTOR REPRESENTS AND WARRANTS COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES AND REGULATIONS APPLICABLE TO THIS ORDER, INCLUDING THE NEW YORK STATE BUILDING CODE, AND LOCAL GOVERNING BODY.

FINAL COMPLETION:

1. PERFORM ALL OF THE WORK REQUIRED TO COMPLETE THE PROJECT, INCLUDING THE SATISFACTORY OPERATION OF ALL EQUIPMENT, AND THE CORRECTION OF ALL UNACCEPTABLE OR INCOMPLETE PORTIONS OF THE PROJECT TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. SETTLE ALL CLAIMS AND SECURE RELEASE OF ALL MECHANICS LIEN OR LENS OF A LIKE NATURE, AND SECURE THE ISSUANCE BY AN APPROPRIATE GOVERNMENT AUTHORITY OF A CERTIFICATE OF OCCUPANCY. REMOVE ALL RUBBISH, SURPLUS MATERIALS, SCAFFOLDING, AND EQUIPMENT FROM THE SITE WHETHER OR NOT LEFT BY OR BELONGING TO THE CONTRACTOR.

FIRE PROTECTION NOTES

<p>1. THE DESIGN PRELIMINARY SHOWN ON THESE CONTRACT DOCUMENTS IS TO PROVIDE GUIDANCE FOR BIDDING AND TO OBTAIN APPROVAL OF THE AUTHORITIES HAVING JURISDICTION. SUBMIT COMPLETE FIRE SPRINKLER SHOP DRAWINGS AS REQUIRED BY CONTRACT DOCUMENTS TO THE OWNER'S DESIGNATED REVIEWER. BASE DESIGN UPON THESE DRAWINGS AND AS REQUIRED BY THE SPECIFICATIONS. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS, HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, FABRICATION METHODS, MATERIAL DATA, AND ADDITIONAL INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. CONTRACTOR SHALL PROVIDE PIPE SIZE, SPRINKLER SPACING, AND SYSTEM CONFIGURATION AS SHOWN. ALTERNATES MUST BE APPROVED IN WRITING BY FIRE PROTECTION ENGINEER OF RECORD DOCUMENTS PRIOR TO BID.</p> <p>2. NOTE CAREFULLY THAT THE FIRE PROTECTION DRAWINGS ARE INTENDED TO INDICATE, ONLY DIAGRAMMATICALLY, TO THE EXTENT AND GENERAL CHARACTER AND LOCATIONS OF THE WORK INCLUDED. PROVIDE ALL WORK OBVIOUSLY INTENDED, BUT HAVING MINOR DETAILS OMITTED OR NOT SHOWN. COMPLETE AS REQUIRED TO PERFORM THE FUNCTIONS INTENDED. FOLLOW THE CONTRACT DOCUMENTS FOR BUILDING DETAILS AND FIT THE WORK OF THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS THERETO.</p> <p>3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING CURRENT HYDRANT TEST DATA (PERFORMED WITHIN LAST 6 MONTHS) AND PERFORMING HYDRAULIC CALCULATIONS; THE CONTRACTOR MAY RESIZE SPRINKLER PIPING IN ACCORDANCE TO HYDRAULIC CALCULATIONS.</p> <p>4. COORDINATE LOCATIONS OF FIRE PROTECTION COMPONENTS, INCLUDING PIPING, ALARMS, DRAINS, TEST POINTS, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS. OBSTRUCTION TO SPRINKLER DISCHARGE MUST BE CONSIDERED DURING SHOP DRAWING PRODUCTION AND INSTALLATION. ADDITIONAL SPRINKLERS MAY BE REQUIRED AT NO ADDITIONAL COST TO OWNER, REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.</p> <p>5. SUBMIT A REQUEST FOR INFORMATION FOR QUESTIONS REGARDING THE FIRE PROTECTION DOCUMENTS.</p> <p>6. CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID. SHOULD MODIFICATIONS TO THESE PLANS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH ALL OTHER TRADES, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL OF THE CHANGES FROM BOTH THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S DESIGNATED REVIEW CONSULTANT IN ADDITION TO OBTAINING THE NECESSARY APPROVALS. THE CONTRACTOR MUST MAKE NOTE OF ANY FIELD OR COORDINATION CHANGES ON THE INSTALLATIONS DRAWINGS, AND PROVIDE A SET OF AS-BUILT DRAWINGS ONCE COMPLETE.</p> <p>7. CONTRACTOR SHALL ROUTE PIPING AROUND ALL OBSTRUCTIONS AND PROVIDE SPRINKLER PROTECTION UNDER OBSTRUCTIONS AS DETAILED IN NFPA 13 AS PART OF THE FIELD COORDINATION AT NO ADDITIONAL COST TO OWNER.</p> <p>8. ALL SPRINKLER DEFLECTOR DISTANCE REQUIREMENTS SHALL BE IN ACCORDANCE WITH NFPA 13 / FM GLOBAL STANDARDS.</p> <p>9. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH APPROVED MATERIALS PER METHODS DESCRIBED BY THE UL FIRE RESISTANCE DIRECTORY.</p> <p>10. PROVIDE FLUSHING CONNECTIONS IN ACCORDANCE WITH NFPA 13 AND CORNELL UNIVERSITY STANDARDS.</p> <p>11. PROVIDE ALL NECESSARY OFFSETS, RAISES, OR DROPS IN PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS. PIPE ELEVATION CHANGES ARE APPROXIMATE DIMENSIONS ONLY.</p> <p>12. ALL MATERIALS SHALL BE UL LISTED OR FM APPROVED. SPRINKLER PIPE SHALL BE MANUFACTURED TO STANDARDS RECOGNIZED BY NFPA 13. THREADED PIPE SHALL HAVE A CORROSION RESISTANCE RATING OF 1.0 OR GREATER. CRIMP-TYPE COUPLERS SHALL NOT BE USED.</p> <p>13. SPRINKLER PIPE SHALL HAVE A "MIC" RESISTANT COATING ON THE INTERIOR.</p> <p>14. HYDROSTATICALLY TEST NEW ABOVE GROUND SPRINKLER PIPING FOR LEAKAGE IN PRESENCE OF AUTHORITY HAVING JURISDICTION, (AHJ) AND CORNELL UNIVERSITY FIRE MARSHALL. SCHEDULE THROUGH CU LFMO AND AHJ.</p> <p>15. ROUTE SPRINKLER MAINS ABOVE BOTTOM CHORD OF JOISTS AND FOLLOW PITCH/SLOPE OF ALL CEILING PLANS WHERE PIPING IS EXPOSED.</p> <p>16. REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING AND WALL ELEVATIONS.</p> <p>17. COORDINATE SYSTEM SHUT-DOWNS WITH OWNER.</p> <p>18. COORDINATE SPRINKLER SYSTEM INSTALLATION WITH GENERAL CONTRACTOR FOR REMOVAL OF EXISTING CEILINGS AND INSTALLATION OF NEW CEILINGS.</p> <p>19. DESIGN TO MEET THE MOST STRINGENT REQUIREMENTS OF DESIGN STANDARDS NOTED ON THIS DRAWING.</p>	<p>20. SUBMIT HYDRAULIC CALCULATIONS, HYDRANT FLOW TEST DATA AND SHOP DRAWINGS TO THE AHJ, FOR APPROVAL PRIOR TO STARTING ANY SPRINKLER WORK.</p> <p>21. CEILING REMOVAL CAN START ONCE THE BUILDING PERMIT IS APPROVED AND PRIOR TO SPRINKLER SUBMITTALS TO THE AHJ.</p> <p>22. ALL TESTING MUST BE COORDINATED THROUGH CORNELL EHS.</p> <p>23. PROVIDE, INSTALL, AND TEST TEMPORARY HEAT DETECTORS IN CONSTRUCTION AREA. TESTING TO BE WITNESSED BY THE AHJ AND CU FIRE MARSHALL.</p>
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DRAWING SYMBOLS

	<p>FIRE PROTECTION EXISTING</p> <p>FIRE PROTECTION NEW</p> <p>WET PIPE</p> <p>SPRINKLER DRAIN</p> <p>PIPE, EQUIPMENT TO BE REMOVED</p> <p>BRANCH OFF TOP OF PIPE</p> <p>BRANCH OFF BOTTOM OF PIPE</p> <p>PIPE TURNED UP</p> <p>PIPE TURNED DOWN</p> <p>REDUCER</p> <p>CROSS MAIN CONNECTION</p> <p>PIPE BREAK</p> <p>GATE VALVE</p> <p>SHUT OFF VALVE (GATE, BALL, OR BUTTERFLY - REFER TO SPECS)</p> <p>CHECK VALVE</p> <p>MOTOR OR SOLENOID CONTROL VALVE</p> <p>MOTOR OR SOLENOID CONTROL VALVE (3-WAY)</p> <p>TRIPLE DUTY VALVE</p> <p>RELIEF VALVE</p> <p>STRAINER</p> <p>UNION</p> <p>PRESSURE GAUGE</p> <p>PUMP</p> <p>CLEAN OUT</p>	<p>POINT OF REMOVAL</p> <p>POINT OF CONNECTION</p> <p>SECTION CALLOUT</p> <p>DETAIL NUMBER</p> <p>DEMOLITION KEYNOTE</p> <p>KEYNOTE</p> <p>EQUIPMENT TO BE REMOVED</p>
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FIRE PROTECTION SYMBOLS

	<p>WP WET PIPE</p> <p>SD SPRINKLER DRAIN</p> <p>CHECK VALVE</p> <p>PIPE UP</p> <p>PIPE DOWN</p> <p>CROSS MAIN CONNECTION</p> <p>● CONCEALED PENDENT / WET SYSTEM</p> <p>⊗ UPRIGHT / WET SYSTEM</p> <p>● D DRY PENDENT / DRY SYSTEM</p> <p>○ D DRY UPRIGHT / DRY SYSTEM</p> <p>BFP BACKFLOW PREVENTER</p> <p>DIP DUCTILE IRON PIPE</p> <p>F.D.C. FIRE DEPARTMENT CONNECTION</p> <p>TS TAMPER SWITCH</p>
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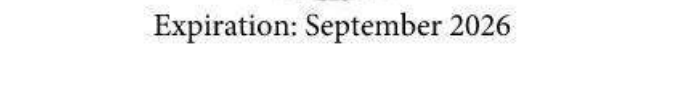
NOTE:
 NOT ALL SYMBOLS, ABBREVIATIONS AND EQUIPMENT DESIGNATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/ OR EXCLUSIONS OF ANY PARTICULAR ITEM FROM THIS PROJECT.

1. BUILDING CODE OF NEW YORK STATE, 2020 EDITION
2. ENERGY CODE OF NEW YORK STATE, 2020 EDITION.
3. PLUMBING CODE OF NEW YORK STATE, 2020 EDITION.
4. MECHANICAL CODE OF NEW YORK STATE, 2020 EDITION.
5. FIRE CODE OF NEW YORK STATE, 2020 EDITION.
6. ENERGY CONSERVATION CODE OF NEW YORK STATE, 2020 EDITION.
7. ACCESSIBLE AND USABLE BUILDING AND FACILITIES - ICC.A117.1 - 2009
8. NATIONAL ELECTRIC CODE 2016 EDITION.
9. NATIONAL FIRE CODE: NFPA 13, 2016 EDITION.
10. FM GLOBAL DATA SHEETS.
FMD 1-12, CEILINGS AND CONCEALED SPACES.
FMD 2-0, INSTALLATION GUIDELINES FOR AUTOMATIC SPRINKLERS
FMD 3-26, FIRE PROTECTION FOR NON-STORAGE OCCUPANCIES
11. FM GLOBAL HAZARD CLASS, HC-1.
12. CORNELL UNIVERSITY STANDARDS.

%	PERCENT	FA	FREE AREA	NIC	NOT IN CONTRACT
AD	ALTERNATING CURRENT	F.D.C.	FIRE DEPARTMENT CONNECTION	NO	NORMALLY OPEN
ACJ	ADJACENT	FF	FINISHED FLOOR	NPT	NATIONAL PIPE THREAD
AF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	NRS	NON-RISING STEM
AFG	ABOVE FINISHED GRADE	FPM	FEET PER MINUTE	NTS	NOT TO SCALE
ALT	ALTERNATE	FPS	FEET PER SECOND	OC	ON CENTER
AMB	AMBIENT	FT	FOOT OR FEET	OD	DIAMETER, OUTSIDE
AMP	AMPERE (AMP AMPS)	FUT	FUTURE	OS&Y	OUTSIDE SCREW AND YOKE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	GA	GAGE OR GAUGE	PL	PLUMBING CONTRACTOR
APPROX	APPROXIMATE (LY)	GAL	GALLONS	PLBG	PLUMBING
AVG	AVERAGE	GC	GENERAL CONTRACTOR	PH	PHASE (ELECTRICAL)
BFP	BACKFLOW PREVENTER	GPM	GALLONS PER MINUTE	PRESS	PRESSURE
BHP	BRAKE HORSEPOWER	GPD	GALLONS PER DAY	PSF	POUNDS PER SQUARE FOOT
BLDG	BUILDING	GPH	GALLONS PER HOUR	PSI	POUNDS PER SQUARE INCH
BD	BOTTOM OF	HD	HEAD	PSIG	PSI GAUGE
BSMT	BASEMENT	HG	MERCURY	PRV	PRESSURE REDUCING VALVE
BTU	BRITISH THERMAL UNIT	HORIZ	HORIZONTAL	RCVR	RECEIVER
BV	BALANCING VALVE	HP	HORSEPOWER	RECIRC	RECIRCULATE
CAP	CAPACITY	HPC	HIGH PRESSURE CONDENSATE	RECIR	NOT WATER OR CIRCULATION
CP	CAST IRON PIPE	HPS	HIGH PRESSURE STEAM	RO	ROUGH OPENING
CLG	CEILING	HR	HOUR	RPOA	REDUCED-PRESSURE DETECTOR ASSY.
CLR	CLEAR	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	RPM	REVOLUTIONS PER MINUTE
CL	CLEANOUT or CARBON MONOXIDE	ID	FREQUENCY	RIZ	REDUCED-PRESSURE ZONE
COL	COLUMN	IN	DIAMETER, INSIDE	SPEC	SPECIFICATION
CONN	CONNECTION	INCH	INCH	SPLY	SUPPLY
CONC	CONCRETE	INSUL	INSULATION	SO	SQUARE
CONT	CONTINUOUS	INT	INTERIOR	SQ FT	SQUARE FOOT (FEET)
CU	CUBIC FEET	IPS	IRON PIPE SIZE	SQ IN	SQUARE INCH (INCHES)
CV	VALVE FLOW COEFFICIENT	INVT	INVERT	STD	STANDARD
CW	DOMESTIC COLD WATER	KW	KILOWATT	SUCT <td>SUCTION</td>	SUCTION
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	KWH	KILOWATT HOUR	TSTAT	THERMOSTAT
DCV	DETECTOR CHECK VALVE	LBS	POUNDS	TBD	TO BE DETERMINED
DOW	DOMESTIC COLD WATER	LF	LINEAR FEET	TD	TEMPERATURE DIFFERENCE
DEM	DEMOLISH or DEMOLITION	LG	LENGTH	TEMP	TEMPERATURE
DHW	DOMESTIC HOT WATER	LOC	LOCATION	TMTV	THERMOSTATIC MIXING VALVE
DIA	DIAMETER	LPC	LOW PRESSURE CONDENSATE	TS	TEMPERATURE SWITCH
DIP	DUCTILE IRON PIPE	LPS	LOW PRESSURE STEAM	TYP	TYPICAL
DWH	DOMESTIC WATER HEATER	LRA	LOCKED ROTOR AMPS	V	VOLT
DW	DRAIN, WASTE, & VENT	LWT	LEAVING WATER TEMPERATURE	VAC	VACUUM
DWG	DRAWING	MATL	MATERIAL	VAR	VARIABLE
(E)	EXISTING	MAX	MAXIMUM	VEL	VELOCITY
ENGR	ENGINEER	MBH	BTU PER HOUR (THOUSAND)	VIF	VERIFY IN FIELD
EQ	EQUAL	MECH	MECHANICAL	VOL	VOLUME
EST	ESTIMATED	MFG	MANUFACTURER	W	WATT
ETR	EXISTING TO REMAIN	MIN	MINIMUM	W	WITH
EWH	ELECTRIC WATER HEATER	MISC	MISCELLANEOUS	W/O	WITHOUT
EWT	ENTERING WATER TEMPERATURE	MOPC	MAXIMUM OVERCURRENT PROTECTION	WCO	WALL CLEANOUT
EX	EXISTING	MPC	MEDIUM PRESSURE CONDENSATE	WHA	WATER HAMMER ARRESTER
EXIST	EXISTING	MPS	MEDIUM PRESSURE STEAM	WM	WATER METER
EXP	EXPANSION	MTG	MOUNTING	WPD	WATER PRESSURE DROP
EXT	EXTERIOR	N/A	NOT APPLICABLE	WT	WEIGHT
°F	DEGREES FAHRENHEIT	NC	NORMALLY CLOSED	WVP	WORKING WATER PRESSURE

<u>SPRINKLER HEAD TYPES</u>			
ROOM	TYPE	FINISH	SPRINKLER HEAD TEMP. RATING
ROOMS WITH SUSPENDED CEILINGS	CONCEALED	BRASS	165 F
ROOMS WITH NO CEILINGS	UPRIGHT	BRASS	165 F
ALL VESTIBULES, LOBBIES, AND CORRIDORS	SEMI-RECESSED	CHROME	165 F
WHERE INDICATED ON PLANS	SIDEWALL	BRASS	165 F

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ITHACA, NY 14853



NO:	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242165

DRAWN BY: SIK

REVIEWED BY: SAD

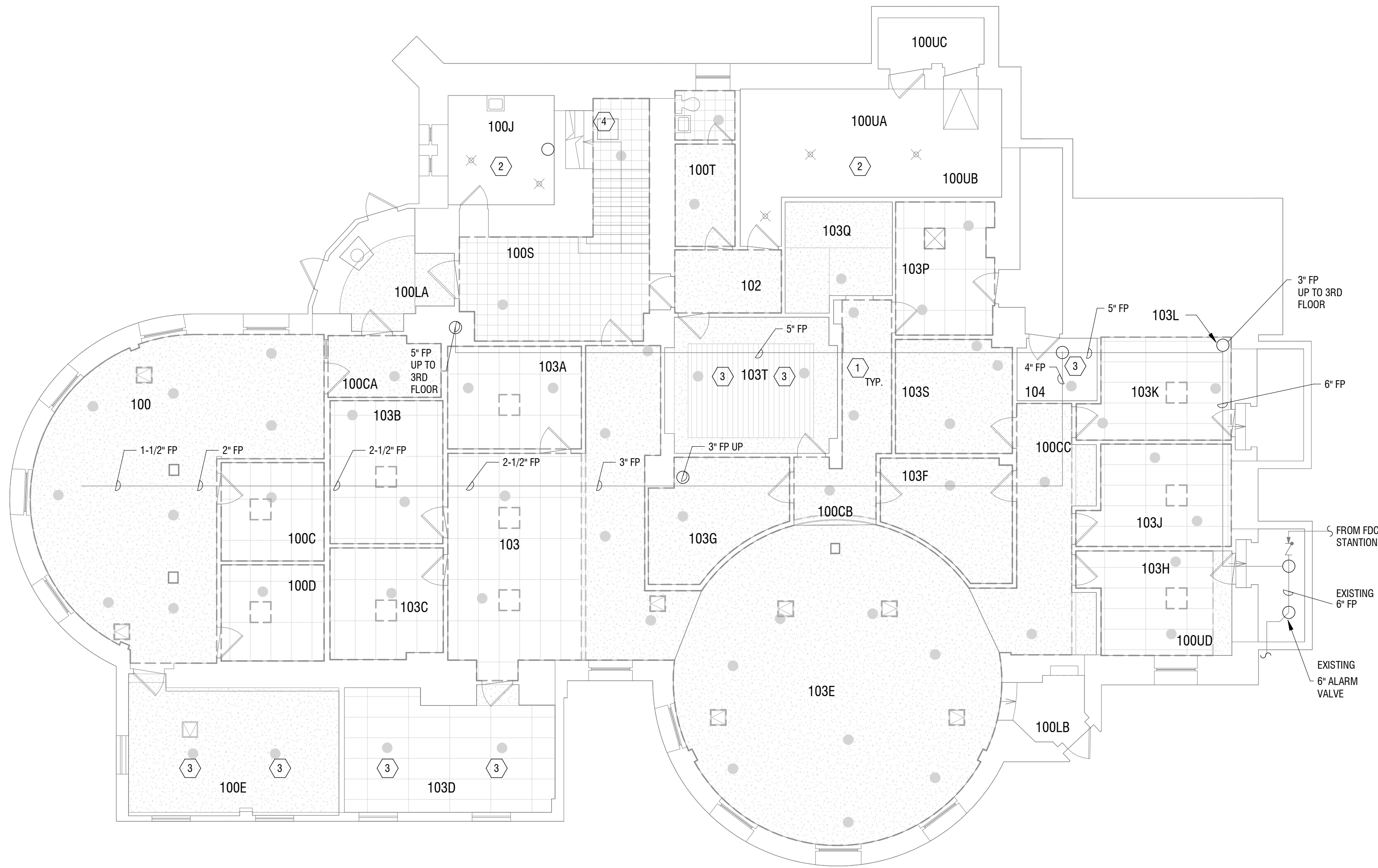
ISSUED FOR: CONSTRU

DATE: 12/05/25

DRAWING NAME:

DRAWING NUMBER:

F001



1 FIRST FLOOR FIRE PROTECTION PLAN - DEMOLITION
FD101 1/8" = 1'-0"



GENERAL NOTES

- EXISTING SYSTEM PIPING IS PARTIALLY VERIFIED. CONTRACTOR TO FIELD VERIFY ALL PIPING ON 1ST FLOOR TO DEVELOP SHOP DRAWINGS AND HYDRAULIC CALCULATIONS.
- COORDINATE PIPE AND CEILING DEMOLITION WITH OWNER.
- CONTRACTOR TO PERFORM FLOW TEST ON FIRE PROTECTION SYSTEM FOR HYDRAULIC CALCULATIONS.
- REMOVE ALL DEMOLITION DEBRIS FROM WORK AREA AT END OF EACH DAY. DO NOT STORE DEBRIS ON SITE.

DEMOLITION NOTES

- TYPICAL IN ALL LOCATIONS NOT DESIGNATED WITH KEYED NOTES 2 & 3. REMOVE ALL SPRINKLERS AND BRANCH LINES. EXISTING SPRINKLER MAINS TO REMAIN AS SHOWN ON THIS PLAN.
- SPRINKLER HEADS IN THIS AREA TO REMAIN.
- SPRINKLER AND BRANCH LINES TO REMAIN. RECONNECT TO NEW PIPING OUTSIDE OF 100E AND 103D.
- REMOVE SPRINKLERS BELOW LANDING. PIPING TO REMAIN.



Expiration: September 2026

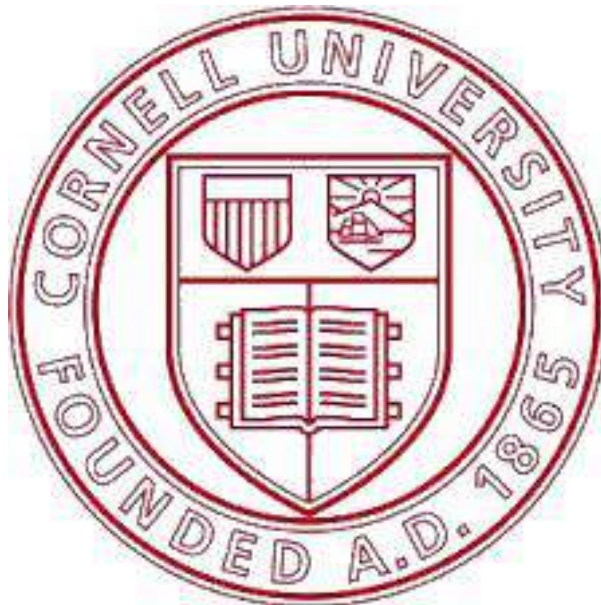
CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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CORNELL UNIVERSITY

ITHACA, NY 14853



BARNES FIRST FLOOR
SPRINKLER INSTALL

129 HO PLAZA
ITHACA, NY 14853

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242165

DRAWN BY: SIK

REVIEWED BY: SAD

ISSUED FOR: CONSTRUCTION

DATE: 12/05/25

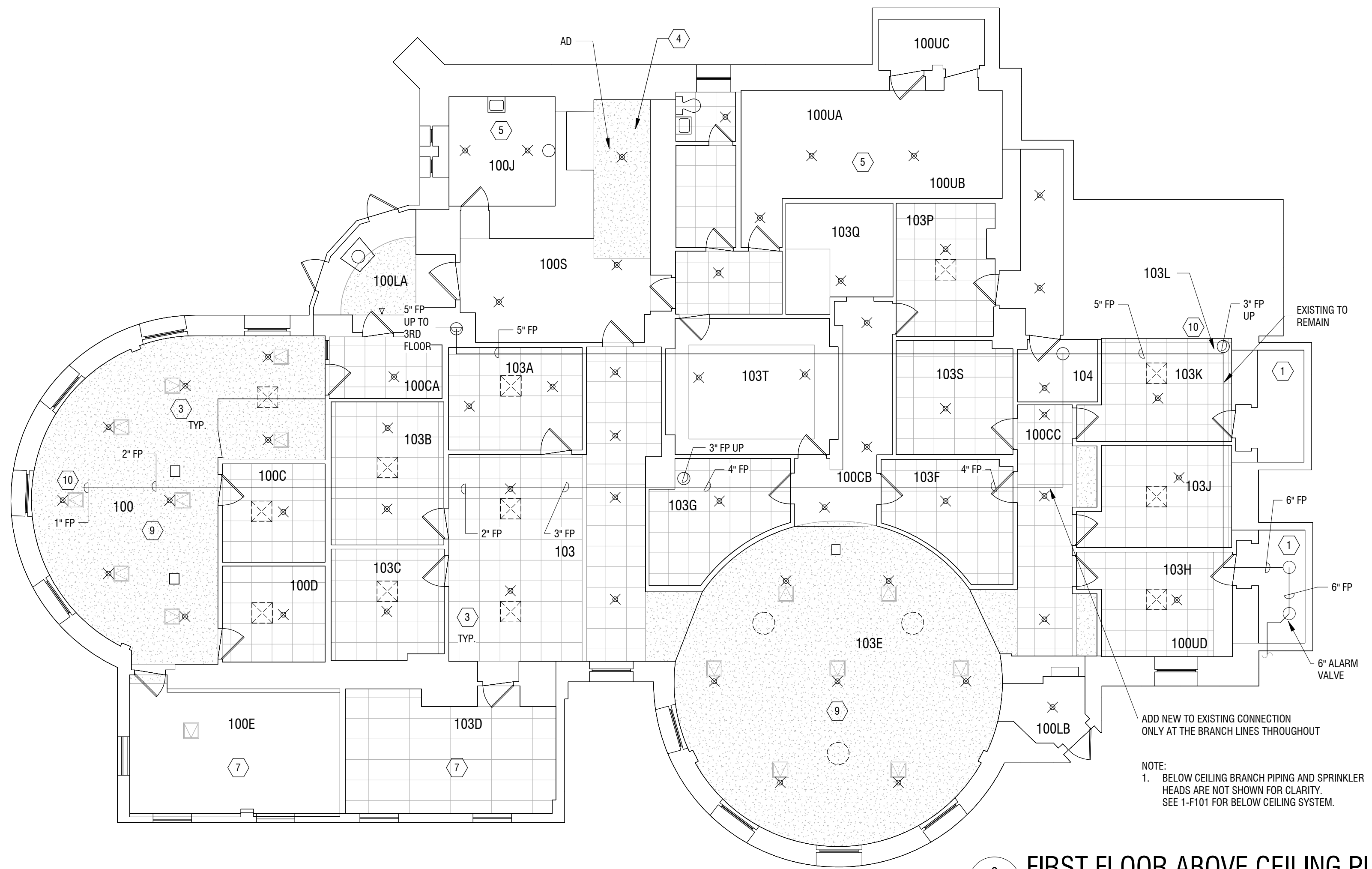
DRAWING NAME:

FIRST FLOOR FIRE
PROTECTION PLAN-
DEMOLITION

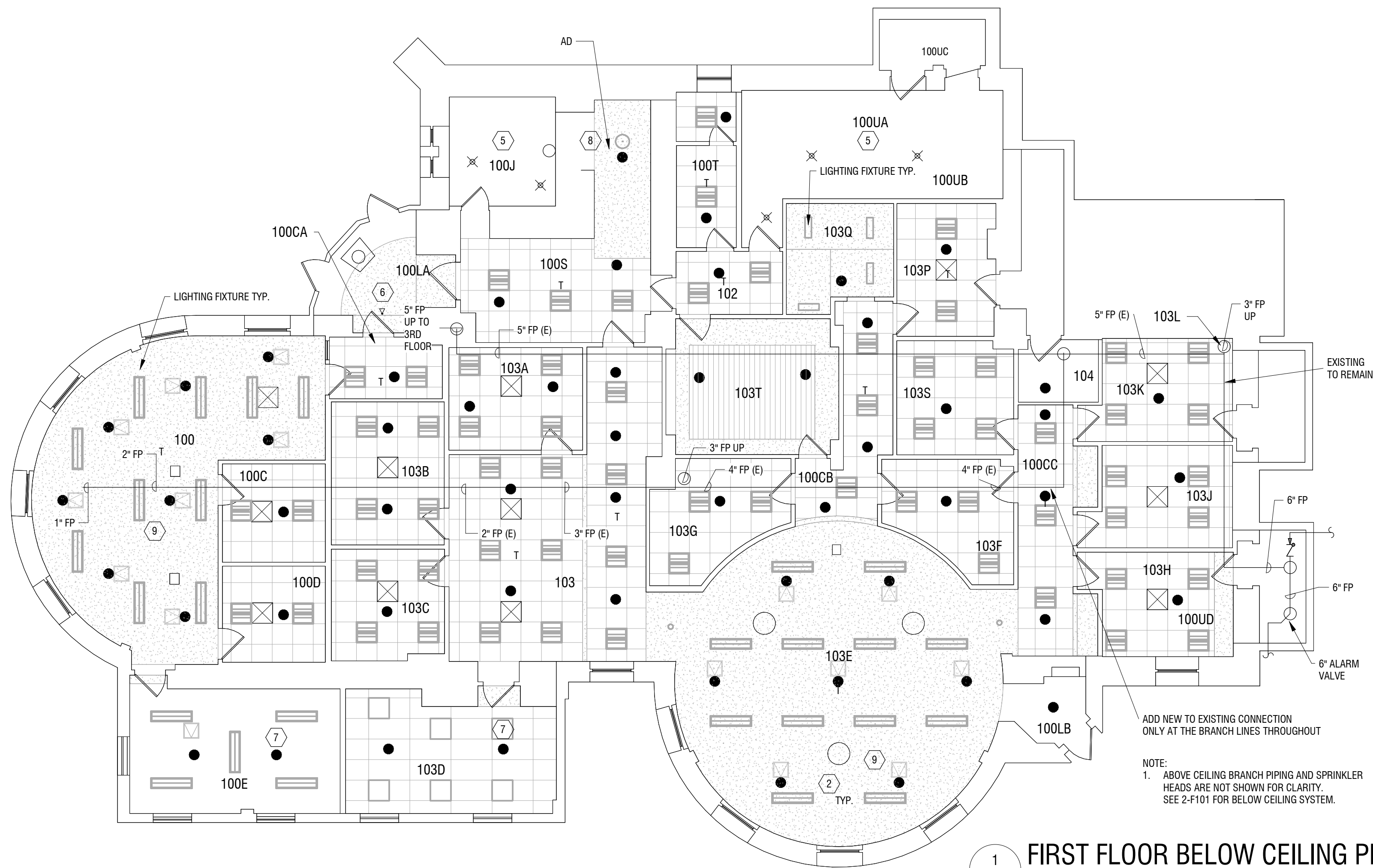
DRAWING NUMBER:



FD101



2 FIRST FLOOR ABOVE CEILING PLAN - INSTALLATION
1/8" = 1'-0"



1 FIRST FLOOR BELOW CEILING PLAN - INSTALLATION
1/8" = 1'-0"

GENERAL NOTES

- EXISTING SYSTEM PIPING IS PARTIALLY VERIFIED. CONTRACTOR TO FIELD VERIFY ALL PIPING ON 1ST FLOOR TO DEVELOP SHOP DRAWINGS AND HYDRAULIC CALCULATIONS.
- COORDINATE PIPE AND CEILING DEMOLITION WITH OWNER.
- CONTRACTOR TO PERFORM FLOW TEST ON FIRE PROTECTION SYSTEM FOR HYDRAULIC CALCULATIONS.
- REMOVE ALL DEMOLITION DEBRIS FROM WORK AREA AT END OF EACH DAY. DO NOT STORE DEBRIS ON SITE.
- FIRE SPRINKLER SYSTEM TO BE WET PIPE, DESIGNED TO F.M. GLOBAL DATA SHEET, HAZARD CLASS, HC-1.
 - FMD 1-12, CEILING AND CONCEALED SPACES.
 - FMD 2-0, INSTALLATION GUIDELINES FOR AUTOMATIC SPRINKLERS.
 - FMD 3-26, FIRE PROTECTION FOR NON-STORAGE OCCUPANCIES.
- SYSTEM TO COMPLY WITH NFPA13 AND THE FIRE CODE OF NEW YORK STATE.
- THE DESIGN IS TO MEET THE MOST STRINGENT REQUIREMENTS OF THE ABOVE REFERENCED STANDARDS.
- COMPLY WITH THE REQUIREMENTS OF THE AHJ.
- FIELD VERIFY EXISTING PIPING AFTER CEILING DEMOLITION.
- SUBMIT SHOP DRAWINGS TO THE ENGINEER AND THE CORNELL UNIVERSITY FIRE PROTECTION ENGINEER FOR REVIEW PRIOR TO ORDERING MATERIAL OR PERFORMING CONSTRUCTION WORK.
- PROVIDE HYDRAULIC CALCULATIONS FOR REVIEW AND APPROVAL.
- COORDINATE FIRE SPRINKLER WORK WITH OTHER TRADES.
- SUBMIT REDLINE DRAWINGS TO ENGINEER SHOWING ANY DEVIATIONS FROM APPROVED SHOP DRAWINGS.
- SPRINKLERS SHOWN ON THIS SHEET ARE NEW UNLESS OTHERWISE NOTED.
- CRAWL SPACE NOT IN SCOPE.
- PROVIDE CORNELL STANDARD END-OF-LINE FLUSHING VALVES PER DETAILS ON DRAWING F501 AT THE END OF ALL BRANCHES. CROSS BRANCH MAINS, MAINS AND WHEN SHOWN NOTED ON DRAWINGS. PROVIDE 12" X12" ACCESS PANELS MATCHING THE FINAL FINISHES EXCEPT IN AREAS WITH SUSPENDED ACOUSTIC TILE (SAT) CEILINGS
- PROVIDE ISOLATION VALVE ON THE 1ST FLOOR AFTER THE FULL BUILDING SHUTDOWN SO THAT THE REST OF THE BUILDING CAN BE TURNED BACK ON WHILE WORK OCCURS ON THE 1ST FLOOR. ISOLATION VALVE TO REMAIN AFTER CONSTRUCTION. PROVIDE FLOW SWITCH. ELECTRIC WILL CONNECT TO FIRE ALARM SYSTEM

KEYED NOTES

- ROUTE UPRIGHT SPRINKLER HEAD BELOW WIDE DUCT IN MECHANICAL ROOM.
- TYPICAL UNLESS SUPERCEDED BY ADDITIONAL KEYED NOTE; CONNECTION LOCATIONS ARE APPROXIMATE. CONTRACTOR MUST SHOW ALL CONNECTION LOCATIONS ON SHOP DRAWINGS.
- TYPICAL UNLESS SUPERCEDED BY ADDITIONAL KEYED NOTE; INSTALL ABOVE CEILING SPRINKLER HEADS FOR APPROX. 60 PLACES. CONTRACTOR TO FIELD VERIFY LOCATIONS.
- INSTALL ABOVE CEILING SPRINKLER IN CEILING ABOVE LANDING. COORDINATE LOCATION WITH GENERAL CONTRACTOR FOR INSTALLATION OF ACCESS DOOR.
- EXISTING UPRIGHT SPRINKLERS.
- SIDEWALL HEAD (SINGLE HEAD BELOW EXISTING CEILING TO REMAIN (ETR)).
- NO ABOVE CEILING HEADS REQUIRED IN THIS AREA.
- REPLACE EXISTING SPRINKLER HEADS BELOW STAIR LANDING (2 HEADS). HEAD RATING TO MATCH EXISTING.
- GENERAL CONTRACTOR IS TO INSTALL 16"x16" LOCKABLE STEEL ACCESS DOOR IN GWB CEILINGS, ADJACENT TO EACH ABOVE CEILING SPRINKLER HEAD, WITHIN 12" TO ALLOW FOR SERVICE OF THAT HEAD. ACCESS DOOR LOCATIONS NOTED ON FIRE PROTECTION DRAWINGS AND GENERAL CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. FINAL LOCATION IS TO BE COORDINATED WITH THE APPROVED FIRE PROTECTION CONTRACTOR'S SHOP DRAWINGS.
- PROVIDE CORNELL STANDARD END-OF-LINE FLUSHING VALVES PER DETAILS ON DRAWING F501. SEE ALSO GENERAL NOTES ABOVE.



Expiration: September 2026

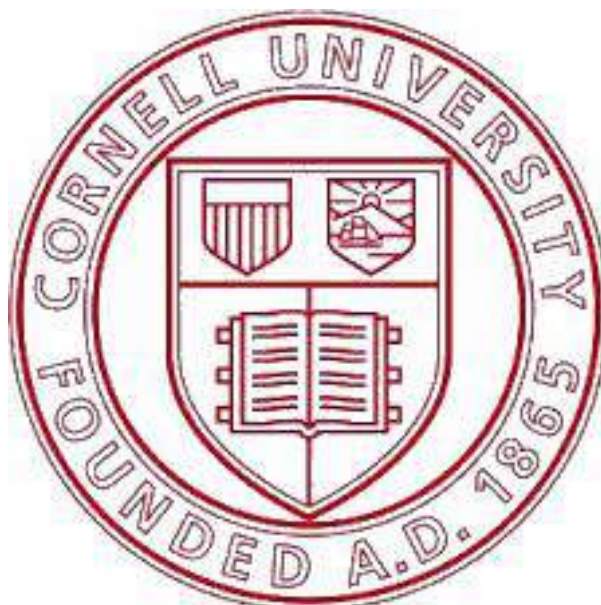
CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

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CORNELL UNIVERSITY

ITHACA, NY 14853



BARNES HALL FIRST FLOOR SPRINKLER INSTALL

129 HO PLAZA
ITHACA, NY 14853

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242165

DRAWN BY: SIK

REVIEWED BY: SAD

ISSUED FOR: CONSTRUCTION

DATE: 12/05/25

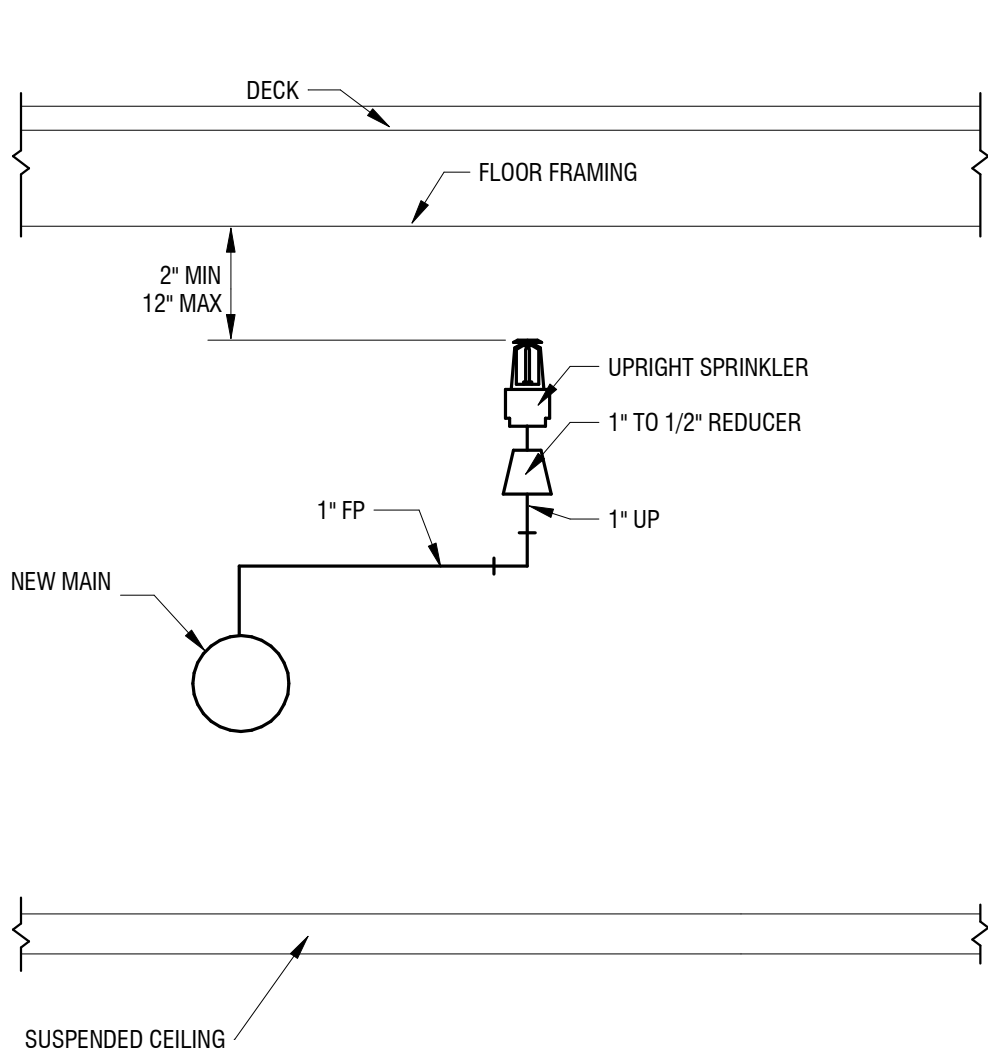
DRAWING NAME:

FIRST FLOOR ABOVE AND BELOW CEILING FIRE PROTECTION PLAN

DRAWING NUMBER:

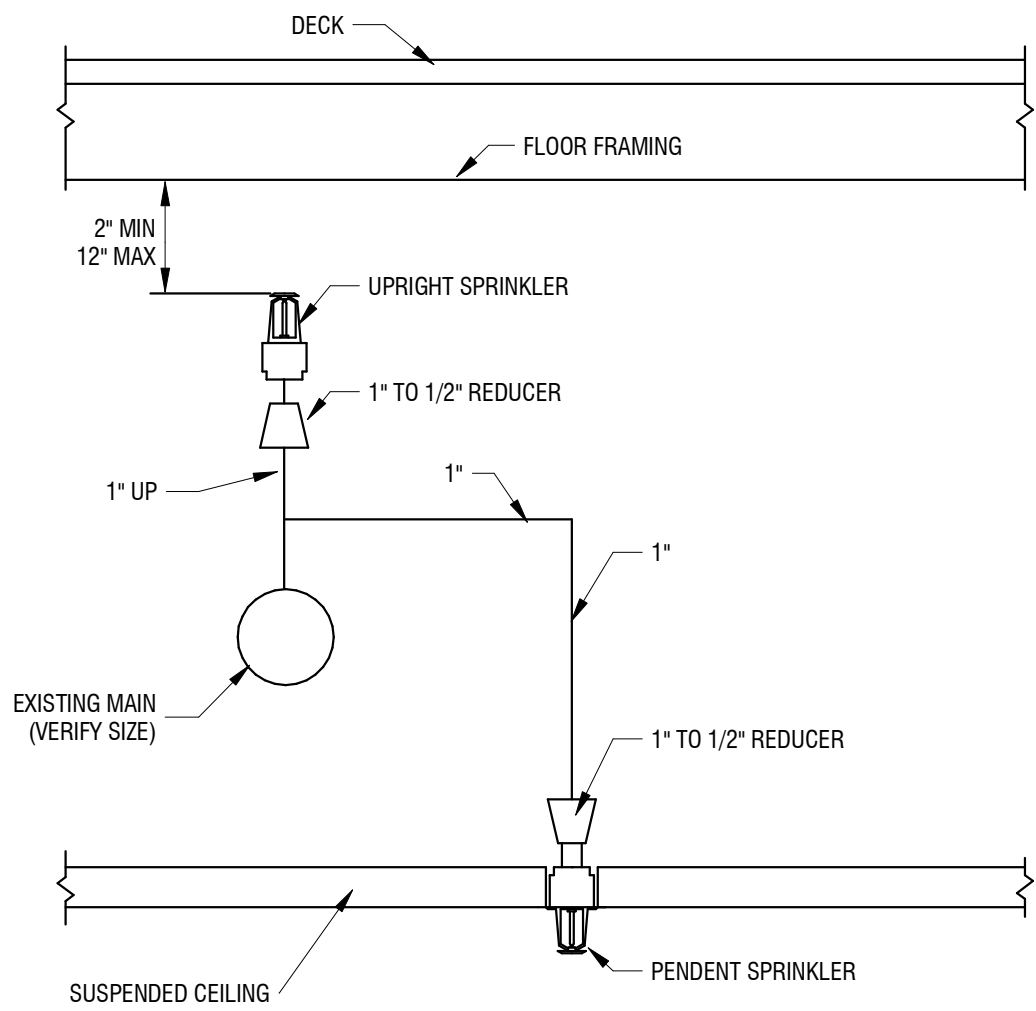
F101

12/12/2025 6:58:05 AM



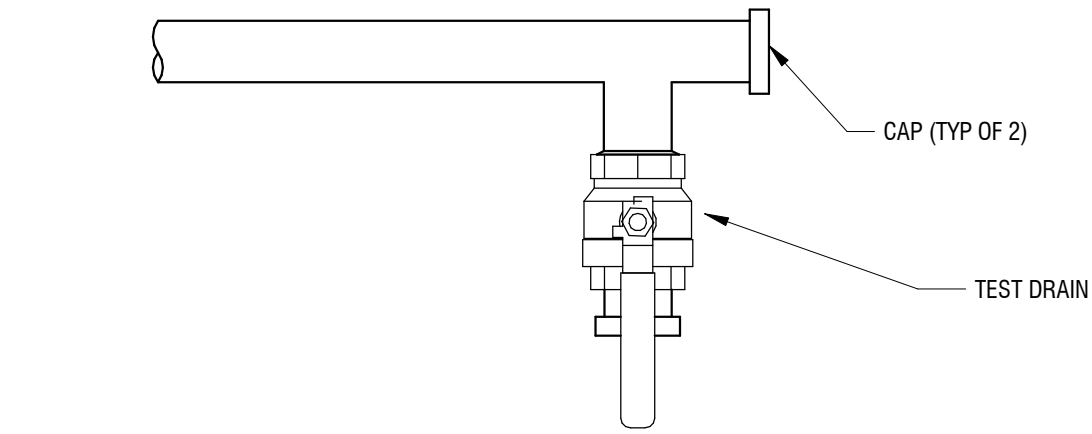
NOTE:
1. COORDINATE LOCATIONS WITH EXISTING DUCTWORK TO AVOID OBSTRUCTIONS TO SPRAY PATTERN.

1
F501
ABOVE CEILING SPRINKLER HEAD
NOT TO SCALE

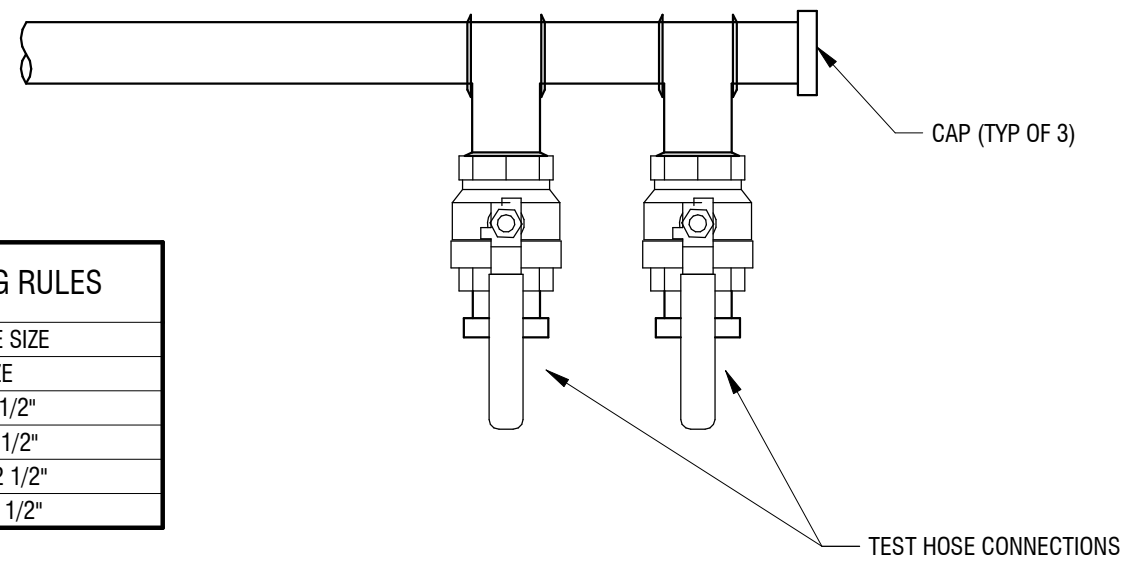


NOTE:
1. POINT OF CONNECTION TO BE DETERMINED CASE BY CASE BY CONTRACTOR. ADDITIONAL PIPING MAY BE REQUIRED WHERE UPRIGHT AND PENDENT DO NOT LIN EUP EXACTLY.

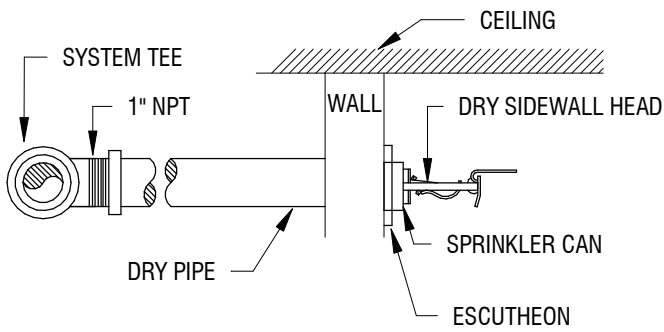
2
F501
ABOVE AND BELOW CONNECTION TO EXISTING MAIN
NOT TO SCALE



5
F501
FLUSHING FULL PORT VALVE DETAIL
12\"/>



4
F501
MULTIPLE DRAIN VALVES DETAIL
12\"/>



3
F501
DRY SIDE WALL HEAD
1/8\"/>

FLUSHING FULL-PORT BALL VALVE SIZING RULES	
PIPE SIZE	BALL VALVE SIZE
1"-2 1/2"	LINE SIZE
3"	ONE (1) 2 1/2"
4"	TWO (2) 2 1/2"
6"	THREE (3) 2 1/2"
8"	FOUR (4) 2 1/2"



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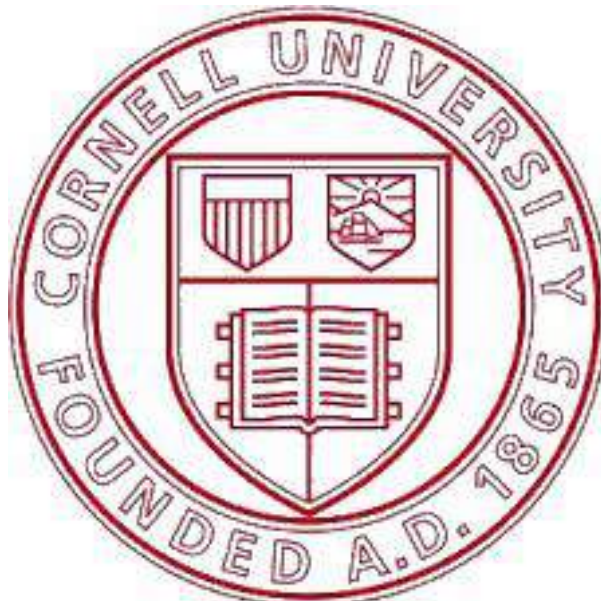
CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 0021272
LAND SURVEYING: 0021271
GEOLOGICAL: 0021659

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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CORNELL UNIVERSITY

ITHACA, NY 14853



BARNES HALL FIRST FLOOR SPRINKLER INSTALL

129 HO PLAZA
ITHACA, NY 14853

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242165

DRAWN BY: SIK

REVIEWED BY: SAD

ISSUED FOR: CONSTRUCTION

DATE: 12/05/25

DRAWING NAME:

FIRE PROTECTION DETAILS

DRAWING NUMBER:

F501

LIGHT FIXTURE SCHEDULE										
TYPE	DESCRIPTION	LAMP	COLOR TEMPERATURE	LUMENS	WATTS	VOLTAGE	MOUNTING	MANUFACTURER	MODEL	NOTES
A	BACK-LIT TROFFER	LED	3500 K	2760 lm	24 W	120 V	RECESSED	COLUMBIA LIGHTING	CBT22-A-LSCS-EDD	
B	BACK-LIT TROFFER	LED	3500 K	2760 lm	24 W	120 V	SURFACE	COLUMBIA LIGHTING	CBT14-A-LSCS-EDD	ACCESSORY: PSMK14 (SURFACE MOUNTING KIT)
C	LIGHT COMMERCIAL DOWLIGHTN	LED	3500 K	1210 lm	13.3 W	120 V	RECESSED	PRESCOLITE	LBRST-6RD-M-LSML-CS9-WH	
D	ARCHITECTURAL HALF MOON	LED	3500 K	2000 lm	24 W	120 V	SURFACE	PEERLESS	AHM-WA-2-20-35K-WM-MV	
F	CEILING SURFACE MOUNT	LED	3500 K	2500 lm	19 W	120 V	SURFACE	VISA LIGHTING	CM1005-L35K(L)-MVOLT	

ELECTRICAL SYMBOLS	
	ILLUMINATED EXIT SIGN - SINGLE/DOUBLE FACE AS SHOWN - DIRECTION OF ARROWS AS INDICATED - CEILING, SURFACE WALL, OR PERPENDICULAR WALL AS SHOWN
	GEOMETRIC SHAPE LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE
	DIMMING SWITCH, SINGLE OR MULTIPLE LOCATION FUNCTIONALITY AS SHOWN, 44" AFF
	JUNCTION BOX, INSTALLED IN CEILING
	FIRE ALARM STROBE LIGHT, CEILING MOUNTED (# INDICATES CANDELA RATING)
	HEAT DETECTOR, COMBINATION RATE OF RISE/FIXED 135°F, CEILING MOUNT (*T INDICATES TEMPORARY DEVICE THAT IS ONLY DURING CONSTRUCTION)

GENERAL NOTES:

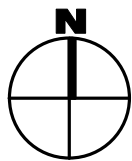
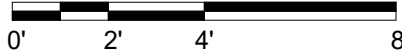
- TYPICAL, EXISTING CEILING SYSTEMS AND LIGHTING FIXTURES SHALL BE REPLACED WITH NEW. EXISTING CEILING-MOUNTED LIGHT FIXTURES SHALL BE DISCONNECTED AND REMOVED. SAVE CIRCUITS AND WIRING AND EXTEND TO NEW FIXTURES.
- ALL LIGHT SWITCHES SHALL BE REPLACED IN KIND WITH DIMMING SWITCHES IN ROOMS/AREAS WHERE NEW LIGHT FIXTURES SHALL BE PROVIDED. PROVIDE SURFACE MOUNT BOX EXTENSION TO ACCOMMODATE DIMMER SWITCH, IF REQUIRED.
- PROVIDE, INSTALL, AND TEST TEMPORARY HEAT DETECTORS IN CONSTRUCTION AREA. TESTING TO BE WITNESSED BY THE AHJ AND CU FIRE MARSHALL.
- EC TO CONNECT NEW FLOW SWITCH (SEE FP DRAWINGS) TO FIRE ALARM SYSTEM.

KEYED NOTES:

- DISCONNECT & SAFELY STORE CEILING-MOUNTED ELECTRICAL FIXTURES, DEVICES, AND EQUIPMENT FOR REUSE. IDENTIFY & SECURE ALL BRANCH CIRCUITRY FOR REUSE.
- ALL ELECTRICAL WORK ASSOCIATED IN ROOM TO BE ALTERNATE 1. BASE BID IS TO REMOVE AND REINSTALL LIGHTING IF CEILING WORK REQUIRES IT.



1 FIRST FLOOR LIGHTING PLAN
E201 1/4" = 1'-0"



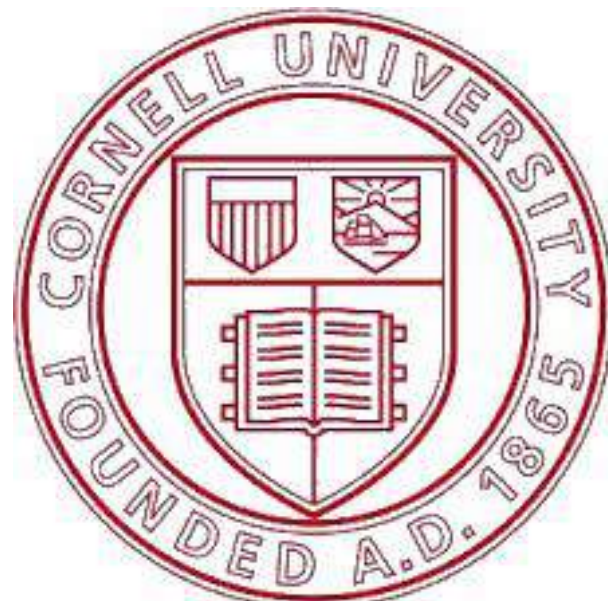
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BARNES HALL FIRST FLOOR
SPRINKLER INSTALL

129 HO PLAZA
ITHACA, NY 14853

NO.	DATE:	DESCRIPTION:
Revisions		

PROJECT NUMBER: 2242165

DRAWN BY: LR

REVIEWED BY: RDH

ISSUED FOR: CONSTRUCTION

DATE: 12/05/25

DRAWING NAME:

FIRST FLOOR LIGHTING
PLAN

DRAWING NUMBER:

E201