SYMBOLS

EQUIPMENT & COMPONENTS

ACE	ACCESSORY CABINET ENCLOSURE
ADSP	AIR SAMPLING SMOKE DETECTOR POWER SUPPLY
AMP	AMPLIFIER
BATT	BATTERY CABINET
DACR	DIGITAL ALARM COMMUNICATOR RECEIVER
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
DARR	DIGITAL ALARM RADIO RECEIVER
DART	DIGITAL ALARM RADIO TRANSMITTER
DCCR	DIGITAL CELLULAR COMMUNICATION RECEIVER
DCCT	DIGITAL CELLULAR COMMUNICATION TRANSMITTER
DOCS	DOCUMENT STORAGE CABINET
MICR	EMERGENCY VOICE MICROPHONE MODULE
	END OF LINE RESISTOR
FAA	FIRE ALARM REMOTE ANNUNCIATOR
FACU	FIRE ALARM CONTROL UNIT (# = NODE DESIGNATION)
FATC	FIRE ALARM TERMINAL CABINET
FFSCP	FIRE FIGHTER'S SMOKE CONTROL PANEL
FSRU	FIRE SUPPRESSION RELEASING CONTROL UNIT
FSRUC	FIRE SUPPRESSION RELEASING CONTROL UNIT (CONVENTIONAL)
GAP	GRAPHIC ANNUNCIATOR PANEL
IPCR	INTERNET PROTOCOL COMMUNICATION RECEIVER
IPCT	INTERNET PROTOCOL COMMUNICATION TRANSMITTER
IS	ISOLATION MODULE
JB	JUNCTION BOX
KB	KEY BOX
MD	MAGNETIC DOOR HOLDER
MB	MUNICIPAL MASTER BOX
PRN	PRINTER
RAI	REMOTE ALARM INDICATOR
RPS	REMOTE POWER SUPPLY
RTP	ROOM TEMPERATURE SWITCH
RTS	REMOTE TEST SWITCH
SPD	SURGE PROTECTION DEVICE

INTERFACE MODULES

CM	CONTROL MODULE
MM	MONITOR MODULE
RM	RELAY MODULE

MANUAL INITIATING DEVICES AND CONTROLS

F	FIRE ALARM MANUAL PULL STATION
Fc	FIRE ALARM MANUAL PULL STATION (CONVENTIONAL)
FX	MANUAL PULL STATION - FIRE SUPPRESSION SYSTEM RELEASE
FXc	MANUAL PULL STATION (CONVENTIONAL) - FIRE SUPPRESSION SYSTEM RELEASE
A	MANUAL PUSH BUTTON - FIRE SUPPRESSION SYSTEM ABORT
Ec	MANUAL PULL STATION (CONVENTIONAL) - EMERGENCY ALARM (HAZMAT)

SYMBOLS

SYSTEM SPOT-TYPE FIRE DETECTORS

- BASIC SYMBOL FOR SPOT-TYPE FIRE DETECTOR - WALL MOUNT
- BASIC SYMBOL FOR SPOT-TYPE FIRE DETECTOR - CLNG MOUNT
- BASIC SYMBOL FOR SPOT-TYPE FIRE DETECTOR - W/ SOUNDER BASE
- PHOTOELECTRIC SMOKE DETECTOR
- PHOTOELECTRIC IN-DUCT SMOKE DETECTOR
- PHOTOELECTRIC SAMPLING-TUBE DUCT SMOKE DETECTOR
- FIXED TEMPERATURE / RATE OF RISE HEAT DETECTOR (t = ACTIVATION TEMPERATURE OF FIXED TEMP THERMAL ELEMENT)
- COMBINATION PHOTOELECTRIC SMOKE / FIXED TEMP HEAT DETECTOR (t = ACTIVATION TEMPERATURE OF THERMAL ELEMENT)
- COMBINATION PHOTOELECTRIC SMOKE / CO DETECTOR
- MULTI-CRITERIA PHOTOELECTRIC SMOKE / FIXED TEMP HEAT / CO DETECTOR (t = ACTIVATION TEMPERATURE OF THERMAL ELEMENT)

SPECIAL TECHNOLOGY FIRE DETECTORS

- BASIC SYMBOL FOR SPECIAL TECHNOLOGY FIRE DETECTOR - WALL MOUNT
- BASIC SYMBOL FOR SPECIAL TECHNOLOGY FIRE DETECTOR - CLNG MOUNT
- AIR SAMPLING SMOKE DETECTOR
- AIR SAMPLING TYPE DUCT DETECTOR
- COMBINATION AIR SAMPLING SMOKE / CO DETECTOR
- COMBINATION AIR SAMPLING SMOKE / H2 DETECTOR
- END-TO-END OPTICAL BEAM SMOKE DETECTOR (TRANSMITTER UNIT)
- END-TO-END OPTICAL BEAM SMOKE DETECTOR (RECEIVER UNIT)
- SINGLE-END OPTICAL BEAM SMOKE DETECTOR (TRANSMITTER / RECEIVER UNIT)
- SINGLE-END OPTICAL BEAM SMOKE DETECTOR (REFLECTOR PANEL)
- ULTRAVIOLET SPECTRUM FLAME DETECTOR
- INFRARED SPECTRUM FLAME DETECTOR
- COMBINATION ULTRAVIOLET / INFRARED SPECTRUM FLAME DETECTOR

CONVENTIONAL SPOT-TYPE FIRE DETECTORS

- BASIC SYMBOL FOR CONVENTIONAL FIRE DETECTOR - WALL MOUNT
- BASIC SYMBOL FOR CONVENTIONAL FIRE DETECTOR - CEILING MOUNT
- CONVENTIONAL PHOTOELECTRIC SMOKE DETECTOR
- CONVENTIONAL FIXED TEMPERATURE RATE COMPENSATED HEAT DETECTOR (t = ACTIVATION TEMPERATURE)

SINGLE / MULTIPLE STATION SMOKE ALARMS

- BASIC SYMBOL FOR SMOKE ALARM - WALL MOUNT
- BASIC SYMBOL FOR SMOKE ALARM - CEILING MOUNT
- SINGLE / MULTIPLE STATION SMOKE ALARM
- SINGLE / MULTIPLE STATION COMBINATION SMOKE / CO ALARM

RADIO PES COMMUNICATIONS ENHANCEMENT SYSTEMS

BDA	BI-DIRECTIONAL RADIO SIGNAL AMPLIFIER
BDAA	BI-DIRECTIONAL RADIO SIGNAL AMPLIFIER ALARM PANEL

WIRED FIRE FIGHTER COMMUNICATION SYSTEMS

FFPC	FIRE FIGHTER'S PHONE CONTROLLER / HANDSET - PRIORITY COMMAND LOCATION
FFP	FIRE FIGHTER'S PHONE HANDSET
FFJ	FIRE FIGHTER'S PHONE PLUG-IN PHONE JACK

EMERGENCY TWO-WAY COMMUNICATION SYSTEM

ECC	EMERGENCY TWO-WAY COMMUNICATION SYSTEM CONTROL CENTER
ECS	EMERGENCY TWO-WAY COMMUNICATION SYSTEM CALL STATION

SYMBOLS

NOTIFICATION APPLIANCES

- AUDIBLE HORN - WALL MOUNT
- AUDIBLE HORN - CLNG MOUNT
- VISUAL STROBE - WALL MOUNT
- VISUAL STROBE - CLNG MOUNT
- COMBINATION AUDIBLE HORN / VISUAL STROBE - WALL MOUNT
- COMBINATION AUDIBLE HORN / VISUAL STROBE - CLNG MOUNT
- AUDIBLE & INTELLIGIBLE SPEAKER - WALL MOUNT
- AUDIBLE & INTELLIGIBLE SPEAKER - CLNG MOUNT
- COMBINATION AUDIBLE & INTELLIGIBLE SPEAKER / VISUAL STROBE - WALL MOUNT
- COMBINATION AUDIBLE & INTELLIGIBLE SPEAKER / VISUAL STROBE - CLNG MOUNT
- VISUAL FLASHING BEACON
- WATERFLOW ALARM BELL
- EMERGENCY ALARM HORN/STROBE

NOTIFICATION APPLIANCE ANNOTATION

C	=	CEILING MOUNT
cd	=	VISUAL STROBE CANDELA OUTPUT
w	=	SPEAKER WATTAGE TAP
LF	=	LOW FREQUENCY SOUNDER
E	=	EMERGENCY ALARM SYSTEM

EXISTING EQUIPMENT DESIGNATIONS

XM	EXISTING EQUIPMENT TO REMAIN. WHERE ARCHITECTURAL WORK IS REQUIRED AT DEVICE LOCATION, DISCONNECT, REMOVE AND REINSTALL DEVICE AS NECESSARY TO ACCOMMODATE ARCHITECTURAL WORK. FOR SURFACE MOUNTED RACEWAY, THIS DESIGNATION SHALL INDICATE RACEWAY AND DEVICES TO REMAIN UNLESS OTHERWISE NOTED.
XN	EXISTING EQUIPMENT TO BE DISCONNECTED, REMOVED AND REPLACED WITH NEW. EXISTING CIRCUIT WIRING AND PATHWAY TO BE MAINTAINED AND REUSED FOR NEW EQUIPMENT CONNECTION.
XR	EXISTING EQUIPMENT TO NEW "XL" LOCATION. CUT BACK AND/OR EXTEND EXISTING CIRCUIT WIRING AND PATHWAY AS REQUIRED SO AS TO PROVIDE A COMPLETE OPERATIONAL INSTALLATION.
XL	EXISTING RELOCATED "XR" EQUIPMENT AT "XL" NEW LOCATION.
XD	REMOVE EXISTING EQUIPMENT. PROVIDE NOTICE TO OWNER OF EQUIPMENT REMOVED. AS DIRECTED BY THE OWNER, BOX REMOVED EQUIPMENT AND RETURN TO THE OWNER AS SPARE INVENTORY.
XM(T)	EXISTING EQUIPMENT TO REMAIN FOR TEMPORY DETECTION TO BE REMOVED DURING PHASE 3

GENERAL ANNOTATION

- SECTION NUMBER
- DRAWING NUMBER
- ELEVATION NUMBER
- DRAWING NUMBER
- DETAIL / PART-PLAN NUMBER
- DRAWING NUMBER
- CONNECT TO EXISTING
- KEY NOTE

NOTE - NOT ALL SYMBOLS USED FOR THIS PROJECT

ABBREVIATIONS

GENERAL

A	AMPERES
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ARCH	ARCHITECT
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
CO	CARBON MONOXIDE
CONT	CONTINUATION
DWG	DRAWING
ELEC	ELECTRICAL
ELEV	ELEVATION
EX	EXISTING
FT	FEET
GALV	GALVANIZED
GND	GROUND
GWB	GYPSUM WALL BOARD
HAZMAT	HAZARDOUS MATERIAL
LF	LOW FREQUENCY
MAX	MAXIMUM
MIN	MINIMUM
MECH	MECHANICAL
MISC	MISCELLANEOUS
M	METERS
MM	MILLIMETERS
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY
NTS	NOT TO SCALE
PES	PUBLIC EMERGENCY SERVICE
QTY	QUANTITY
SQFT	SQUARE FEET
SQM	SQUARE METERS
TEMP	TEMPERATURE
TYP	TYPICAL
V	VOLTS
W/	WITH
WP	WEATHER PROOF
XP	EXPLOSION PROOF

SYSTEMS, EQUIPMENT, AND MATERIALS

ACU	AUTONOMOUS CONTROL UNIT
AMP	AMPLIFIER
ASSD	AIR-SAMPLING SMOKE DETECTOR
AUX	AUXILIARY 24V POWER CIRCUIT
AVC	ANALOG VOICE CIRCUIT
BDA	BI-DIRECTIONAL AMPLIFIER
BDAA	BI-DIRECTIONAL AMPLIFIER ALARM PANEL
CAX	COAXIAL CABLE
COM	NETWORK COMMUNICATION CIRCUIT
DVC	DIGITAL VOICE CIRCUIT
ECS	EMERGENCY COMMUNICATION SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE RESISTOR
FACU	FIRE ALARM CONTROL UNIT
FAS	FIRE ALARM SYSTEM
FATC	FIRE ALARM TERMINAL CABINET
FMC	FLEXIBLE METALLIC CONDUIT
FMCL	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
FO	FIBER OPTIC CABLE
FPL	POWER LIMITED FIRE ALARM CABLE
FPLP	POWER LIMITED FIRE ALARM CABLE - PLENUM
FPLR	POWER LIMITED FIRE ALARM CABLE - RISER
FSRU	FIRE SUPPRESSION RELEASING UNIT
FT	FIXED TEMPERATURE
GAP	GRAPHIC ANNUNCIATOR PANEL
HLI	HIGH LEVEL INTERFACE
IDC	INITIATING DEVICE CIRCUIT
IM	INTERFACE MODULE
JB	JUNCTION BOX
MC	METAL CLAD CABLE
MD	MAGNETIC DOOR HOLD-OPEN
MFVN	MANAGED FACILITIES-BASED VOICE NETWORK
NAC	NOTIFICATION APPLIANCE CIRCUIT
PP	PROTECTED PREMISES
PRN	PRINTER
PSTN	PUBLIC-SWITCHED TELEPHONE NETWORK
RAI	REMOTE ALARM INDICATOR
RCES	RADIO COMMUNICATION ENHANCEMENT SYSTEM
ROR	RATE OF RISE
RMC	RIGID METALLIC CONDUIT
RPS	REMOTE POWER SUPPLY
RS	RELEASING SERVICE
SLC	SIGNALING LINE CIRCUIT
SPK	SPEAKER CIRCUIT
STR	STROBE CIRCUIT
TB	TERMINAL BLOCK

FIRE ALARM - DRAWING LIST - SURGE

SHEET NUMBER	SHEET NAME
FAS0.01	FIRE ALARM - SYMBOLS & ABBREVIATIONS
FAS0.02	FIRE ALARM - NOTES
FAS1.01	FIRE ALARM - DEMO FIRST FLOOR SURGE
FAS1.02	FIRE ALARM - DEMO SECOND FLOOR SURGE
FAS1.03	FIRE ALARM - DEMO THIRD FLOOR SURGE
FAS2.01	FIRE ALARM - FIRST FLOOR SURGE
FAS2.02	FIRE ALARM - SECOND FLOOR SURGE
FAS2.03	FIRE ALARM - THIRD FLOOR SURGE
FAS5.01	FIRE ALARM - RISER DIAGRAM
FAS5.02	FIRE ALARM - SEQUENCE OF OPERATIONS
FAS6.01	FIRE ALARM - DETAILS

ABBREVIATIONS

FAS INTERFACE MODULE / FIRE SUPPRESSION

FSA	FSRU COMMON ALARM OUTPUT (MM)
FSAD	FSRU CLEAN AGENT DISCHARGE OUTPUT (MM)
FSS	FSRU COMMON SUPERVISORY OUTPUT (MM)
FST	FSRU COMMON TROUBLE OUTPUT (MM)
FSWF	FSRU WATER FLOW OUTPUT (MM)
KMS	KEY MAINTENANCE SWITCH (MM)
LPS	LOW AIR OR WATER SPRINKLER / STANDPIPE SYSTEM PRESSURE (MM)
N2P	NITROGEN GENERATOR LOW PURITY (MM)
RCA	ENERGIZE CLEAN AGENT RELEASING ACTUATOR (RM)
RSL	ENERGIZE PREACTION SPRINKLER RELEASING SOLENOID (RM)
TS	SPRINKLER / STANDPIPE VALVE TAMPER SWITCH IN OFF-NORMAL POSITION (MM)
TSC	CLEAN AGENT ACTUATOR CONTROL HEAD TAMPER SWITCH IN OFF-NORMAL POSITION (MM)
WF	SPRINKLER / STANDPIPE SYSTEM WATER FLOW (MM)
WTH	FIRE WATER TANK HIGH LEVEL ALARM (MM)
WTL	FIRE WATER TANK LOW LEVEL ALARM (MM)
WTVL	FIRE WATER TANK VERY LOW LEVEL ALARM (MM)

FAS / ELECTRIC FIRE PUMP INTERFACES

FPCS	FIRE PUMP CONNECTED TO STANDBY POWER (MM)
FPLT	FIRE PUMP LOW TEMPERATURE (MM)
FPPL	FIRE PUMP POWER PHASE LOSS (MM)
FPPV	FIRE PUMP POWER PHASE REVERSAL (MM)
FPRN	FIRE PUMP RUNNING (MM)
FPVB	FIRE PUMP VFD BYPASS ENGAGED (MM)
FPVF	FIRE PUMP VFD FAILURE (MM)
FPVO	FIRE PUMP VFD OVERPRESSURE (MM)

FAS / DIESEL FIRE PUMP INTERFACES

FPET	FIRE PUMP ENGINE TROUBLE (MM)
FPLF	FIRE PUMP LOW FUEL (MM)
FPLT	FIRE PUMP LOW TEMPERATURE (MM)
FPMS	FIRE PUMP MAIN SWITCH IN OFF OR MANUAL POSITION (MM)
FPRN	FIRE PUMP RUNNING (MM)

FAS / ELEVATOR INTERFACES

ELAI	ACTIVATE "FLASHING HAT" ALARM INDICATOR (RM)
ELHV	OPEN ELEVATOR HOISTWAY VENT (RM)
ELRA	RECALL CAB(S) TO ALTERNATE RECALL LEVEL (RM)
ELRP	RECALL CAB(S) TO PRIMARY RECALL LEVEL (RM)
ELSP	SHUNT ELEVATOR POWER (RM)
OEE	OCCUPANT EVACUATION ELEVATOR INTERFACE (RM)

FAS / HVAC & SMOKE CONTROL INTERFACES

@-AFL	SMOKE CONTROL FAN ID "@" AIRFLOW VERIFICATION (MM)
@-DSC	SMOKE CONTROL FAN ID "@" LOCAL POWER DISCONNECT OPEN (MM)
@-CL	DAMPER / COMPONENT ID "@" IN CLOSED POSITION (MM)
@-OP	DAMPER / COMPONENT ID "@" IN OPEN POSITION (MM)
OC-@	OPEN / CLOSE DAMPER / COMPONENT ID "@" (RM)
FSD	FIRE SMOKE DAMPER (RM)
SD	SMOKE DAMPER (RM)
STA-@	START HVAC / SMOKE CONTROL FAN ID "@" (RM)
STP-@	STOP HVAC / SMOKE CONTROL FAN ID "@" (RM)
XDCT	CONVENTIONAL DUCT SMOKE DETECTOR ALARM (MM)

BI-DIRECTIONAL AMPLIFIER INTERFACES

BDAC	LOSS OF AC POWER (MM)
BDAM	ANTENNA MALFUNCTION (MM)
BDLB	LOW BATTERY (MM)
BDSM	SIGNAL BOOSTER FAILURE (MM)

CONVENTIONAL INITIATING DEVICES

Ec	CONVENTIONAL EMERGENCY ALARM SYSTEM MANUAL PULL STATION (MM)
FC	CONVENTIONAL FIRE ALARM MANUAL PULL STATION (MM)
HDA	CONVENTIONAL HEAT DETECTOR ALARM (MM)
SDA	CONVENTIONAL SMOKE DETECTOR ALARM (MM)

FAS / OTHER SYSTEM INTERFACES

@-PW	EQUIPMENT ID "@" POWER OFF NORMAL (MM)
BMSA	FAS COMMON ALARM TO BMS (RM)
BMSS	FAS COMMON SUPERVISORY TO BMS (RM)
BMST	FAS COMMON TROUBLE TO BMS (RM)
DR	RELEASE DOOR(S) (RM)
LTG	OVERRIDE LIGHTING CONTROLS TO NORMAL (RM)
AV	OVERRIDE SOUND CONTROLS - SHUTDOWN AV SYSTEMS (RM)
FOP	SHUT DOWN FUEL OIL PUMP(S) (RM)
GAS	DE-ENERGIZE NATURAL GAS SUPPLY SHUTOFF SOLENOID (RM)
GENR	EMERGENCY / STANDBY GENERATOR RUNNING (MM)
PASO	OVERRIDE PUBLIC ADDRESS SYSTEM - MUTE SOUND (RM)
SECA	FAS COMMON ALARM SIGNAL TO SECURITY SYSTEM (RM)
SECS	FAS COMMON SUPERVISORY SIGNAL TO SECURITY SYSTEM (RM)
FAS	COMMON TROUBLE SIGNAL TO SECURITY SYSTEM (RM)
RT	ROOM TEMPERATURE SWITCH (MM)
SM	OVERRIDE SOUND MASKING CONTROLS (RM)

SPECIAL TECHNOLOGY DETECTION

ASD1	AIR SAMPLING SMOKE DETECTION FIRE 1
ASD2	AIR SAMPLING SMOKE DETECTION FIRE 2
ASDP	AIR SAMPLING SMOKE DETECTION PRE-ALARM (ALERT/ACTION)
ASDT	AIR SAMPLING SMOKE DETECTOR / POWER SUPPLY TROUBLE
BEDA	BEAM DETECTOR ALARM (MM)
BDT	BEAM DETECTOR TROUBLE (MM)

NOTE - NOT ALL ABBREVIATIONS USED FOR THIS PROJECT

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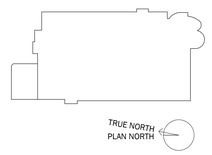
FOR SEQUENCING OF WORK, REFER TO G-SERIES DRAWINGS

KEY PLAN



BID DOCUMENTS

REVISIONS

ISSUE

FIRE ALARM - SYMBOLS & ABBREVIATIONS

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EMER. TWO-WAY COMM. REQUIREMENTS

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE EMERGENCY TWO-WAY COMMUNICATIONS SYSTEM WORK COMPLETE AND READY FOR OPERATION.
2. THE ENTIRE SYSTEM SHALL MEET THE APPROVAL OF THE FIRE DEPARTMENT, THE BUILDING DEPARTMENT AND ALL OTHER AGENCIES AND AUTHORITIES HAVING JURISDICTION (AHJ).
3. SURVIVABILITY FROM ATTACK BY FIRE SHALL MEET NFPA 72, NATIONAL FIRE ALARM CODE, 2016 EDITION.
4. ANY PERMIT NECESSARY FOR THE INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS THE PART OF THE REQUIRED WORK.
5. THE MASTER CALL STATION UNIT SHALL BE INSTALLED IN AN OWNER-APPROVED CENTRAL POINT LOCATION WITHIN THE BUILDING.
6. IF THE CENTRAL POINT LOCATION IS NOT CONSTANTLY ATTENDED, THE MASTER CALL STATION SHALL HAVE A TIMED AUTOMATIC COMMUNICATIONS CONNECTION TO AN OFF-SITE CENTRAL MONITORING STATION, APPROVED BY THE AUTHORITY HAVING JURISDICTION. THE SIGNAL TO THE OFF-SITE CENTRAL MONITORING STATION SHALL IDENTIFY THE SPECIFIC BUILDING PRIOR TO INITIATING THE LIVE VOICE TWO-WAY COMMUNICATION.
7. THE EMERGENCY CALL STATION SHALL PROVIDE HANDS-FREE, TWO-WAY COMMUNICATION AND ANNUNCIATE AUDIBLE AND VISUAL SIGNALS INDICATING COMMUNICATION HAS OCCURRED BETWEEN THE EMERGENCY CALL STATION AND MASTER CALL STATION.
8. THE SPECIFIC FLOOR AND LOCATION OF EACH EMERGENCY CALL STATION SHALL BE ANNUNCIATED AT THE MASTER CALL STATION.
9. SIGNAGE SHALL BE PROVIDED AND POSTED ADJACENT TO EACH EMERGENCY CALL STATION, OUTLINING THE INSTRUCTIONAL USE OF THE TWO-WAY COMMUNICATION SYSTEM. INSTRUCTIONS FOR SUMMONING ASSISTANCE VIA THE TWO-WAY COMMUNICATIONS SYSTEM AND WRITTEN IDENTIFICATION (INCLUDING BRAILLE) OF THE EMERGENCY CALL STATION LOCATION. COORDINATE SIGNAGE TYPE, FINISH AND LOCATION WITH ARCHITECT.
10. PROVIDE SECONDARY POWER CAPABLE OF OPERATING THE EMERGENCY TWO-WAY COMMUNICATION SYSTEM AT 100-PERCENT SYSTEM CAPACITY FOR A DURATION OF NOT LESS THAN 24 HOURS, AND AT THE END OF THIS PERIOD, SHALL BE CAPABLE OF OPERATING IN ACTIVE STATUS FOR 5 MINUTES.
11. THE EMERGENCY TWO-WAY COMMUNICATIONS SYSTEM CONDUIT SHALL BE A MINIMUM 3/4"DIAMETER AND SHALL NOT SHARE PATHWAY WITH ANY OTHER COMMUNICATION SYSTEM.
12. ALL CABLE AND CONDUIT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF OTHER SYSTEMS. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE.
13. ALL COMPONENTS SHOWN ON THE RISER DIAGRAM, BUT NOT ON THE PLAN OR VICE VERSA SHALL BE INCLUDED AS IF SHOWN ON BOTH. PROVIDE FIREPROOFING THROUGH PENETRATION ASSEMBLIES AT ALL PENETRATIONS OF SMOKE AND/OR FIRE RATED FLOORS AND WALLS IN ACCORDANCE WITH BUILDING CODE AND SPECIFICATION REQUIREMENTS.

MODIFICATIONS TO EXISTING SYSTEMS

1. PREPARE, IN NARRATIVE AND DRAWING FORMAT AS DIRECTED BY THE AUTHORITY OF HAVING JURISDICTION, A FORMAL IMPAIRMENT PLAN.
2. CONTRACTOR TO DEVELOP AND IMPLEMENT IMPAIRMENT PLAN IN ACCORDANCE WITH NY STATE FIRE CODE AND NFPA 241 FIRE SAFETY PROGRAM.
3. IMPAIRMENT PLAN SHALL IDENTIFY THE BUILDING OCCUPANCY (OR VACANCY) DURING CONSTRUCTION AND NATURE OF THE SYSTEM IMPAIRMENT.
4. IMPAIRMENT PLAN SHALL IDENTIFY MAXIMUM IMPAIRMENT DURATION PERMITTED BY THE AUTHORITY HAVING JURISDICTION BEFORE ALTERNATE PROTECTION OR FIRE WATCHES ARE NECESSARY.
5. IMPAIRMENT PLAN SHALL IDENTIFY THE DURATION AND TIMING OF FIRE ALARM SYSTEM SHUTDOWNS AND RESULTANT REQUIREMENT FOR TEMPORARY PROTECTION MEASURES OR FIRE WATCHES, IF ANY.
6. IMPAIRMENT PLAN SHALL IDENTIFY THE NECESSARY PROVISIONS FOR TEMPORARY CIRCUIT CONNECTIONS TO EXISTING FIRE ALARM DEVICES AND APPLIANCES TO REMAIN IN SERVICE.
7. IMPAIRMENT PLAN SHALL IDENTIFY ADDITIONAL PROTECTION FEATURES INCLUDING FIRE WATCHES AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
8. FIRE ALARM OUTSIDE OF RENOVATION WORK AREA. INITIATING DEVICES AND NOTIFICATION APPLIANCES IN AREAS ADJACENT TO THE RENOVATION WORK AREA MUST REMAIN IN SERVICE THROUGHOUT THE DURATION OF CONSTRUCTION. PROVIDE TEMPORARY CIRCUIT CONNECTIONS AS NECESSARY TO MAINTAIN SERVICE UNTIL NEW CIRCUITS ARE COMPLETED.
9. STROBE SYNCHRONIZATION ALLOWANCE. THE FLASH PATTERN OF EXISTING STROBE NOTIFICATION APPLIANCES ADJACENT TO THE RENOVATION WORK AREA BUT OPEN TO VIEW OF NEW STROBE NOTIFICATION APPLIANCES WITHIN THE RENOVATION WORK AREA SHALL BE SYNCHRONIZED. INCLUDE A COST ALLOWANCE FOR THE REPLACEMENT OF EXISTING NOTIFICATION APPLIANCES, NEW POWER SUPPLIES, SYNC-MODULES, AND OTHER NECESSARY MODULES REQUIRED FOR SYNCHRONIZATION WHERE THE EXISTING FIRE ALARM SYSTEM IS DETERMINED IN THE FIELD TO NOT BE CAPABLE OF SYNCHRONIZATION BETWEEN EXISTING AND NEW NOTIFICATION APPLIANCES.
10. FIRE ALARM PULL BOXES WITHIN RENOVATION WORK AREA. MAINTAIN MANUAL PULL BOXES AT EXITS WITHIN AREA OF RENOVATION. REPLACE PULL BOXES WITH NEW AT THE CONCLUSION OF CONSTRUCTION.
11. FIRE ALARM NOTIFICATION APPLIANCES WITHIN RENOVATION WORK AREA. MAINTAIN NOMINAL AUDIBLE AND VISIBLE SIGNALING WITHIN THE RENOVATION WORK AREA. AT A MINIMUM, LOCATE COMBINATION AUDIBLE / VISIBLE NOTIFICATION APPLIANCES AT EACH EXIT FROM THE WORK AREA.
12. SMOKE AND HEAT DETECTORS WITHIN RENOVATION WORK AREA. PROTECT EXISTING DETECTORS TO REMAIN FROM DUST AND DEBRIS THROUGHOUT THE DURATION OF CONSTRUCTION. REPLACE DETECTORS WITH NEW AT THE CONCLUSION OF CONSTRUCTION.
13. FIRE ALARM INTERFACE MODULES WITHIN RENOVATION WORK AREA. MAINTAIN THE OPERATION OF EXISTING INPUT AND OUTPUT INTERFACE MODULES TO EXISTING EQUIPMENT THROUGHOUT THE DURATION OF CONSTRUCTION.
14. PROTECTION. PROTECT EXISTING FIRE ALARM DEVICES, APPLIANCES, AND EQUIPMENT FROM DUST, DEBRIS, PAINT, SPRAY-ON FIRE-PROOFING, AND SIMILAR THROUGHOUT THE DURATION OF CONSTRUCTION.
15. PROGRAMMING. UPDATE FIRE ALARM SYSTEM PROGRAMMING AS REQUIRED TO INCLUDE NEW ADDRESSES, DELETED ADDRESSES AND SEQUENCE OF OPERATIONS CHANGES. MATCH EXISTING DEVICE ADDRESS NOMENCLATURE. VERIFY BUILDING ROOM NAMES AND NUMBERS IN FIELD.
16. EXISTING WORK STATIONS. UPDATE PROGRAMMING AND GRAPHICS FILES OF EXISTING WORKSTATIONS AS REQUIRED TO ACCURATELY REFLECT FIRE ALARM SYSTEM MODIFICATIONS.
17. EXISTING GRAPHIC ANNUNCIATORS & SWITCHES. REPLACE EXISTING GRAPHIC ANNUNCIATOR, OPERATOR SWITCHES, LABELS AND SIMILAR AS REQUIRED TO ACCURATELY REFLECT THE FIRE ALARM SYSTEM MODIFICATIONS.
18. EXISTING IDENTIFICATION. REPLACE EXISTING FIRE ALARM SIGNAGE, GRAPHICS, FRAMED MAPS, AND SIMILAR WITH NEW AS REQUIRED TO ACCURATELY REFLECT FIRE ALARM SYSTEM MODIFICATIONS.
19. EXISTING DOCUMENTATION. AMEND EXISTING PROPERTY RECORDS WITH SUPPLEMENTAL FIRE ALARM RECORD DOCUMENTATION INCLUDING DRAWINGS AND TEST REPORTS FOR THE ALTERATION WORK PERFORMED.

DOCUMENT SUBMITTAL PROCESS

1. THE DESIGN CONTENT OF THESE DRAWINGS IS INTENDED TO SATISFY THE STATE BUILDING CODE REQUIREMENTS FOR CONSTRUCTION DOCUMENTS. WHEN STAMPED AND SEALED BY THE ENGINEER OF RECORD THEY ARE INTENDED TO BE USED AS PART OF THE BUILDING PERMIT APPLICATION ONLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A COMPLETE SHOP DRAWING SUBMITTAL INCLUSIVE OF ALL INFORMATION REQUIRED BY THE STATE BUILDING CODE AND THE CONSTRUCTION DOCUMENTS. SHOP DRAWINGS REVIEWED BY THE ENGINEER OF RECORD SHALL BE USED FOR SUPPLEMENTAL FIRE PROTECTION SYSTEM INSTALLATION PERMITS OR SUBMITTALS WHERE SUCH PERMITS OR SUBMITTALS ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A COMPLETE RECORD DRAWING SUBMITTAL INCLUSIVE OF ALL FIELD CHANGES AND ALL INFORMATION REQUIRED BY THE STATE BUILDING CODE AND THE CONSTRUCTION DOCUMENTS.
4. SHOP DRAWINGS AND RECORD DRAWING SUBMITTALS SHALL BE PREPARED BY THE CONTRACTOR'S QUALIFIED ENGINEERING TECHNICIAN AND SHALL INDICATE THE TECHNICIAN'S NICET CERTIFICATION NUMBER OR PROFESSIONAL ENGINEERING SEAL & SIGNATURE AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
5. THE ENGINEER OF RECORD SHALL NOT SIGN AND SEAL SHOP DRAWING OR RECORD DRAWING SUBMITTALS PREPARED BY THE CONTRACTOR. WHERE THE AUTHORITY HAVING JURISDICTION REQUIRES SHOP DRAWING OR RECORD DRAWING SUBMITTALS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, THE SUBMITTALS SHALL BE PREPARED BY A QUALIFIED PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR.

INSPECTION AND TESTING

1. PREPARE A TYPEWRITTEN COMPUTER-OUTPUT TEST PLAN THAT CLEARLY ESTABLISHES THE SCOPE OF FIRE ALARM AND SIGNALING SYSTEM TESTING. INCLUDE AT A MINIMUM TESTING METHODS, PERSONNEL, DURATION, PLANNED IMPAIRMENTS, AND REQUIRED COORDINATION FOR INTEGRATED TESTING OF EMERGENCY CONTROL FUNCTION INTERFACES. COORDINATE NFPA 3 "RECOMMENDED PRACTICE FOR COMMISSIONING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS" AND NFPA 4 "STANDARD FOR INTEGRATED FIRE PROTECTION AND LIFE SAFETY SYSTEM TESTING" REQUIREMENTS WITH THE FIRE AND LIFE SAFETY COMMISSION AGENT (FCxA) WHERE AN FCxA IS CONTRACTED BY THE OWNER.
2. FUNCTIONAL FIELD TESTS SHALL BE WITNESSED BY THE CONSTRUCTION MANAGER (CM), THEIR DESIGNEES, AND WHEN CONTRACTED BY THE OWNER THE FIRE AND LIFE SAFETY COMMISSION AGENT (FCxA); PROVIDE NOTIFICATIONS A MINIMUM OF TWO (2) WEEKS IN ADVANCE.
3. ACCEPTANCE FIELD TESTING SHALL BE WITNESSED BY THE CM, THEIR DESIGNEES, AND AUTHORITIES HAVING JURISDICTION (AHJ); PROVIDE NOTIFICATIONS A MINIMUM OF TWO (2) WEEKS IN ADVANCE.
4. PERFORM VISUAL INSPECTIONS IN ACCORDANCE WITH FIRE ALARM SYSTEM MANUFACTURER RECOMMENDATIONS AND NFPA 72 FOR INITIAL ACCEPTANCE INSPECTIONS. CORRECT DEFICIENCIES.
5. DOCUMENT INSPECTIONS BY COMPLETING APPLICABLE SECTIONS OF THE NFPA 72 "SYSTEM RECORD OF INSPECTION AND TESTING" REPORT.
6. PROVIDE WRITTEN NOTIFICATIONS FOR FUNCTIONAL FIELD TESTS; INCLUDE TEST PLAN.
7. PERFORM FUNCTIONAL TESTING IN ACCORDANCE WITH ACCORDANCE WITH FIRE ALARM SYSTEM MANUFACTURER RECOMMENDATIONS NFPA 72 FOR "INITIAL ACCEPTANCE TESTING". CORRECT DEFICIENCIES. REPEAT FUNCTIONAL TESTING INCLUDING RETESTING OF UNAFFECTED COMPONENTS IN ACCORDANCE WITH NFPA 72 FOR "REACCEPTANCE TESTING".
8. REPEAT FUNCTIONAL TESTING AS REQUIRED BY THE FIRE AND LIFE SAFETY COMMISSION AGENT (FCxA) WHERE AN FCxA IS CONTRACTED BY THE OWNER.
9. DOCUMENT 100 PERCENT SATISFACTORY FUNCTIONAL TESTS BY COMPLETING REMAINING SECTIONS OF THE NFPA 72 "SYSTEM RECORD OF INSPECTION AND TESTING" REPORT.
10. SUBMIT NFPA 72 "STATEMENT OF COMPLETION" AND COMPLETED NFPA 72 "SYSTEM RECORD OF INSPECTION AND TESTING" REPORT.
11. PROVIDE WRITTEN NOTIFICATIONS FOR ACCEPTANCE FIELD TESTS; INCLUDE TEST PLAN, NFPA 72 "STATEMENT OF COMPLETION", NFPA 72 "SYSTEM RECORD OF INSPECTION AND TESTING" REPORT, AND NFPA 72 "SYSTEM RECORD OF COMPLETION".
12. PERFORM ACCEPTANCE FIELD TESTING. DEMONSTRATE SYSTEM OPERATION TO THE SATISFACTION OF THE AHJ. CORRECT AHJ NOTED DEFICIENCIES REPEAT FUNCTIONAL TESTING INCLUDING RETESTING OF UNAFFECTED COMPONENTS IN ACCORDANCE WITH NFPA 72 FOR "REACCEPTANCE TESTING". AMEND NFPA 72 "SYSTEM RECORD OF INSPECTION AND TESTING" REPORT, AND NFPA 72 "SYSTEM RECORD OF COMPLETION".
13. PLACE SYSTEM INTO NORMAL OPERATING SERVICE WITHOUT SYSTEM FAULTS OR OUTSTANDING WORK.

GENERAL REQUIREMENTS

1. CONTRACTOR SHALL GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
2. PURPOSE OF ENGINEERING DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE ABSOLUTELY PRECISE; THEY ARE NOT INTENDED TO SPECIFY OR TO SHOW EVERY REQUIRED COMPONENT OF THE SYSTEMS DESCRIBED. THE PURPOSE OF THE DRAWINGS IS TO INDICATE A SYSTEM CONCEPT, THE MAIN COMPONENTS OF THE SYSTEMS, AND THEIR APPROXIMATE GEOMETRIC RELATIONSHIPS. BASED UPON THE SYSTEMS CONCEPT, THE MAIN COMPONENTS, AND THEIR APPROXIMATE GEOMETRIC RELATIONSHIPS, PROVIDE ALL OTHER COMPONENTS AND MATERIALS NECESSARY TO MAKE THE SYSTEMS FULLY COMPLETE AND OPERATIONAL. GENERIC PERFORMANCE CRITERIA WIRING DIAGRAMS ARE REPRESENTED BY THE ENGINEERING DRAWINGS. ADAPT DIAGRAM ARRANGEMENT AS NECESSARY TO ACHIEVE SPECIFIED PERFORMANCE WITH FAS MANUFACTURER-SPECIFIC TECHNOLOGY.
3. MINIMUM PERFORMANCE REQUIREMENTS. INTERPRET DRAWING AND SPECIFICATION REQUIREMENTS THAT ARE MORE STRINGENT THAN FEDERAL, STATE, & MUNICIPAL CODE-MINIMUM AS DELIBERATELY CONSIDERED PERFORMANCE CRITERIA THAT ARE A MANDATORY PART OF THE WORK. WHERE DRAWINGS AND SPECIFICATIONS ARE SILENT ON A CODE REGULATED CONDITION, COMPLY WITH FEDERAL, STATE, & MUNICIPAL CODE-MINIMUM. COMPLY WITH NFPA STANDARD EDITIONS REFERENCED BY APPLICABLE FEDERAL, STATE, & MUNICIPAL CODES.
4. DESIGN STANDARDS. COMPLY WITH
   - NFPA 70 - 2017. NATIONAL ELECTRICAL CODE
   - NFPA 72 - 2016. NATIONAL FIRE ALARM AND SIGNALING CODE
   - NEW YORK STATE 2020 BUILDING CODE
   - SUNY CONSTRUCTION FUND - DIRECTIVE 28-1 FIRE ALARM DETECTION & EMERGENCY COMMUNICATION SYSTEMS
5. APPROVALS. PRODUCTS SHALL BE UL LISTED AND/OR FM APPROVED FOR FIRE PROTECTION DUTY AND THE INTENDED SERVICE APPLICATION.
6. ALL WORK IS NEW. UNLESS SPECIFICALLY NOTED AS EXISTING, ALL COMPONENTS INDICATED BY THE DRAWINGS ARE NEW.
7. RELATED DOCUMENTS. THE NECESSARY UNDERSTANDING OF THE PROJECT SCOPE AND FIRE ALARM AND SIGNALING WORK CANNOT BE OBTAINED WITHOUT REVIEW OF ALL PROJECT DOCUMENTS. REVIEW COMPLETE PACKAGE OF PROJECT DRAWINGS, SPECIFICATIONS, AND NARRATIVES TO FULLY UNDERSTAND THE PROJECT SCOPE AND TO COORDINATE THE FIRE ALARM AND SIGNALING WORK WITH OTHER DIVISIONS.
8. GENERAL INSTALLATION. INSTALL SYSTEM IN A WORKMANLIKE FASHION AND IN A RECTILINEAR ARRANGEMENT WITH PATHWAYS, EQUIPMENT, DEVICES, AND APPLIANCE PERPENDICULAR AND PARALLEL WITH BUILDING ARCHITECTURAL AND STRUCTURAL ELEMENTS. CONDUIT SHALL BE TIGHT TO UNDERSIDE OF DECK. EXPOSED CONDUIT SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION AND SHALL MAINTAIN NECESSARY CLEARANCES
9. FIRE DEPARTMENT OPERATIONS. INSTALL FIRE ALARM DISPLAYS, AND CONTROLS, PRIVATE-MODE SIGNALING APPLIANCES, SIGNAGE, AND OTHER COMPONENTS REQUIRING FIRE FIGHTER PERSONNEL INTERFACE DURING EMERGENCY OPERATIONS IN READILY IDENTIFIABLE LOCATIONS, WITH ADEQUATE OPERATIONAL CLEARANCES, AND IN ACCORDANCE WITH RESPONDING FIRE DEPARTMENT STANDARD EMERGENCY OPERATIONAL PROCEDURES.
10. RACEWAY. UNLESS OTHERWISE NOTED, WIRE AND CABLE PATHWAYS SHALL BE DEDICATED CONTINUOUS METAL RACEWAY THROUGHOUT. COMPLY WITH NFPA 72 REQUIREMENTS - BOTH MANDATORY AND RECOMMENDED - FOR MINIMUM PHYSICAL SEPARATION OF SUPPLY AND RETURN PATHWAYS.CONDUIT SHALL BE MINIMUM 3/4-IN NOMINAL WITH RED MARKINGS EVERY 10-FT OR SOLID RED COLOR.
11. WIRE AND CABLE. FPL POWER-LIMITED FIRE ALARM SHALL BE CABLE RUN CONTINUOUS BETWEEN COMPONENT TERMINALS WITHOUT SPLICES. POWER LIMITED CIRCUITS SHALL NOT BE RUN IN THE SAME RACEWAY AS NON-POWER LIMITED CIRCUITS.
12. SURVIVABILITY. FIRE ALARM EQUIPMENT AND PATHWAYS SHALL BE SURVIVABLE AGAINST THE EFFECTS OF FIRE DAMAGE AS INDICATED.
13. T-TAPPING. CIRCUITS SHALL BE ARRANGED WITHOUT T-TAPS.
14. INTERFACES. DIVISION 28 WORK INCLUDES WIRING AND TERMINATIONS FROM INTERFACE MODULES TO ASSOCIATED EQUIPMENT TERMINALS. COORDINATE VOLTAGE REQUIREMENTS OF CONTROLLED EQUIPMENT WITH THE RATINGS OF THE ASSOCIATED FIRE ALARM INTERFACE MODULE. PROVIDE INTERPOSING RELAYS WHERE INDICATED OR OTHERWISE REQUIRED. UNLESS NOTED AS PERMISSIBLE FOR FAIL-SAFE CONTROL CIRCUITS, ADDRESSABLE RELAY MODULES SHALL BE LOCATED WITHIN 3-FT OF THE ASSOCIATED DEVICE OR CIRCUIT BEING CONTROLLED.
15. PRIMARY POWER SUPPLY SHALL BE FROM A SEPARATE FUSED CIRCUIT FREE FROM FAULTS INCLUDING GROUNDS, SHORTS, OPENS, STRAY VOLTAGE, OR INDUCED VOLTAGE. EACH BREAKER SHALL BE LOCKABLE AND IDENTIFIED AT BOTH THE POWER PANEL AND THE POWERED EQUIPMENT. A SURGE PROTECTIVE DEVICE SHALL BE PROVIDED FOR EACH PRIMARY POWER CIRCUIT.
16. COORDINATION. MAKE REASONABLE AND NECESSARY MODIFICATIONS IN LAYOUTS AND COMPONENT ARRANGEMENT NEEDED TO PREVENT CONFLICT WITH AND TO ACCOMMODATE OTHER DIVISIONS OF THE WORK.
17. CLEARANCES. INSTALL CONDUIT, BOXES, CABINETS, AND SYSTEM COMPONENTS TO MAINTAIN MINIMUM CLEARANCES REQUIRED TO OPERATE AND MAINTAIN FIRE ALARM AND SIGNALING EQUIPMENT; TO INSTALL, OPERATE AND MAINTAIN EQUIPMENT AND FEATURES OF OTHER DIVISIONS; TO ACCOMMODATE FINISHED CEILING HEIGHTS; AND TO MAINTAIN MAXIMUM HEADROOM IN AREAS OPEN TO STRUCTURE ABOVE.
18. PENETRATIONS. USE SPECIFIED SLEEVES, SLEEVE SEALS, AND ESCUTCHEONS AT RACEWAY PENETRATIONS. AT FIRE RESISTANCE RATED PENETRATIONS, THE PENETRATED FLOOR OR WALL, PENETRATING RACEWAY, SLEEVE OR SLEEVE SEAL, AND FIRESTOP MATERIAL AS AN ASSEMBLY SHALL COMPLY WITH A DESIGNATED UL THROUGH-PENETRATION FIRESTOP SYSTEM.
19. ACCESS TO COMPONENTS. INSTALL WALL MOUNT EQUIPMENT CABINETS WITH CONTROLS AND DISPLAYS SUCH THAT THEY ARE READILY ACCESSIBLE AND VISIBLE TO RESPONDING PERSONNEL. INSTALL EQUIPMENT TO READILY PERMIT TESTING SERVICING, AND BATTERY REPLACEMENT. INSTALL FIRE DETECTORS SUCH THAT THEY WILL BE READILY ACCESSIBLE FOR TESTING AND MAINTENANCE FROM THE FLOOR SURFACE BELOW.
20. SUPPORT. CONDUITS, CABLES, AND RACEWAY SHALL NOT BE SUPPORTED BY CEILING GRID SYSTEMS. SECURE CONDUITS, CABLES, AND RACEWAYS TO THE BUILDING STRUCTURE.
21. IDENTIFICATION. PROVIDE IDENTIFICATION AT ALL DEVICES, APPLIANCES, MODULES, AND CABINET ENCLOSURES.
22. FIRE PROTECTION DURING CONSTRUCTION. PROVIDE FIRE PROTECTION DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO SPRINKLER / STANDPIPE SUPERVISION, AUDIBLE AND VISIBLE ALARMS, AND CENTRAL STATION SUPERVISION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
23. ON-STE AS-BUILT DOCUMENTATION. MAINTAIN COMPLETE AND SEPARATE SET OF INSTALLATION DRAWINGS ON SITE AT ALL TIMES. RECORD WORK COMPLETED AND ALL MODIFICATIONS CLEARLY AND ACCURATELY.

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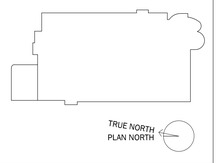

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FIRE ALARM - NOTES

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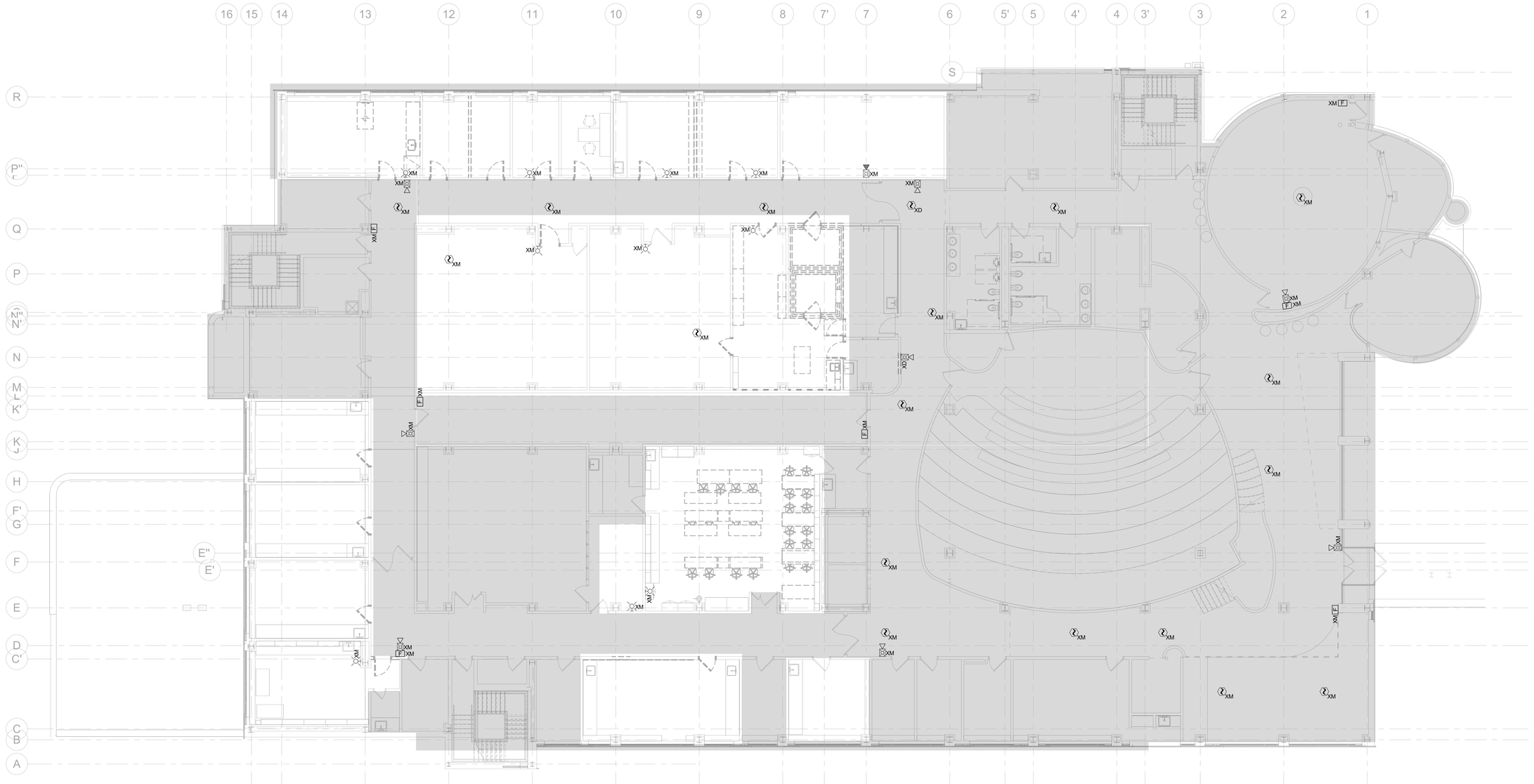

1 FIRE ALARM - DEMO FIRST FLOOR SURGE
1/8" = 1'-0"

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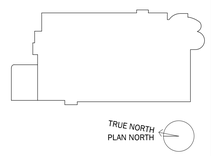

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FIRE ALARM - DEMO FIRST FLOOR SURGE

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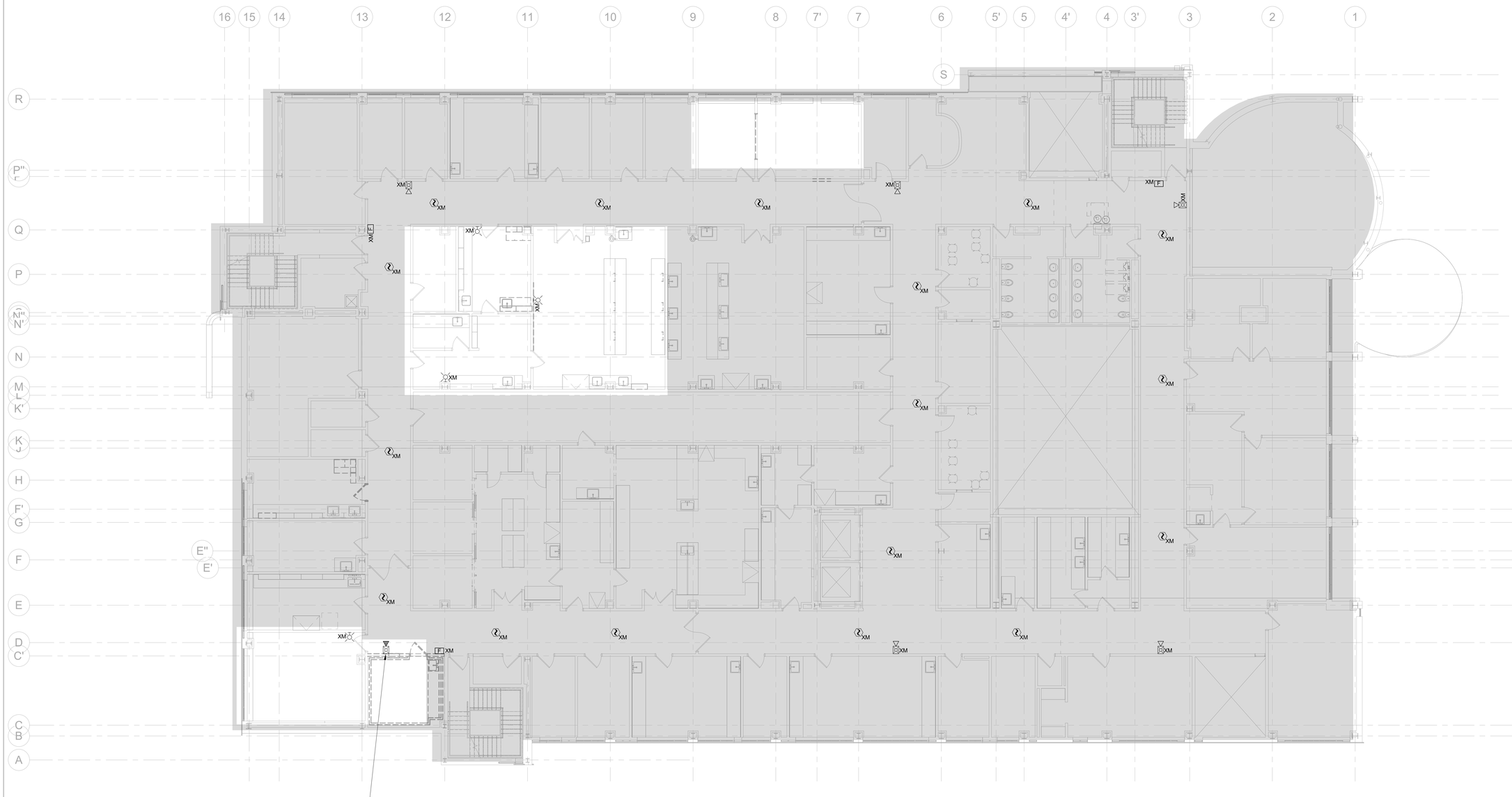

RELOCATE EXISTING NOTIFICATION APPLIANCE IN SAME LOCATION TO ACCOMODATE NEW WALL. REPLACE ONLY AS NEEDED. PROTECT DEVICE FROM CONSTRUCTION DEBRIS.

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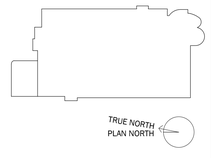

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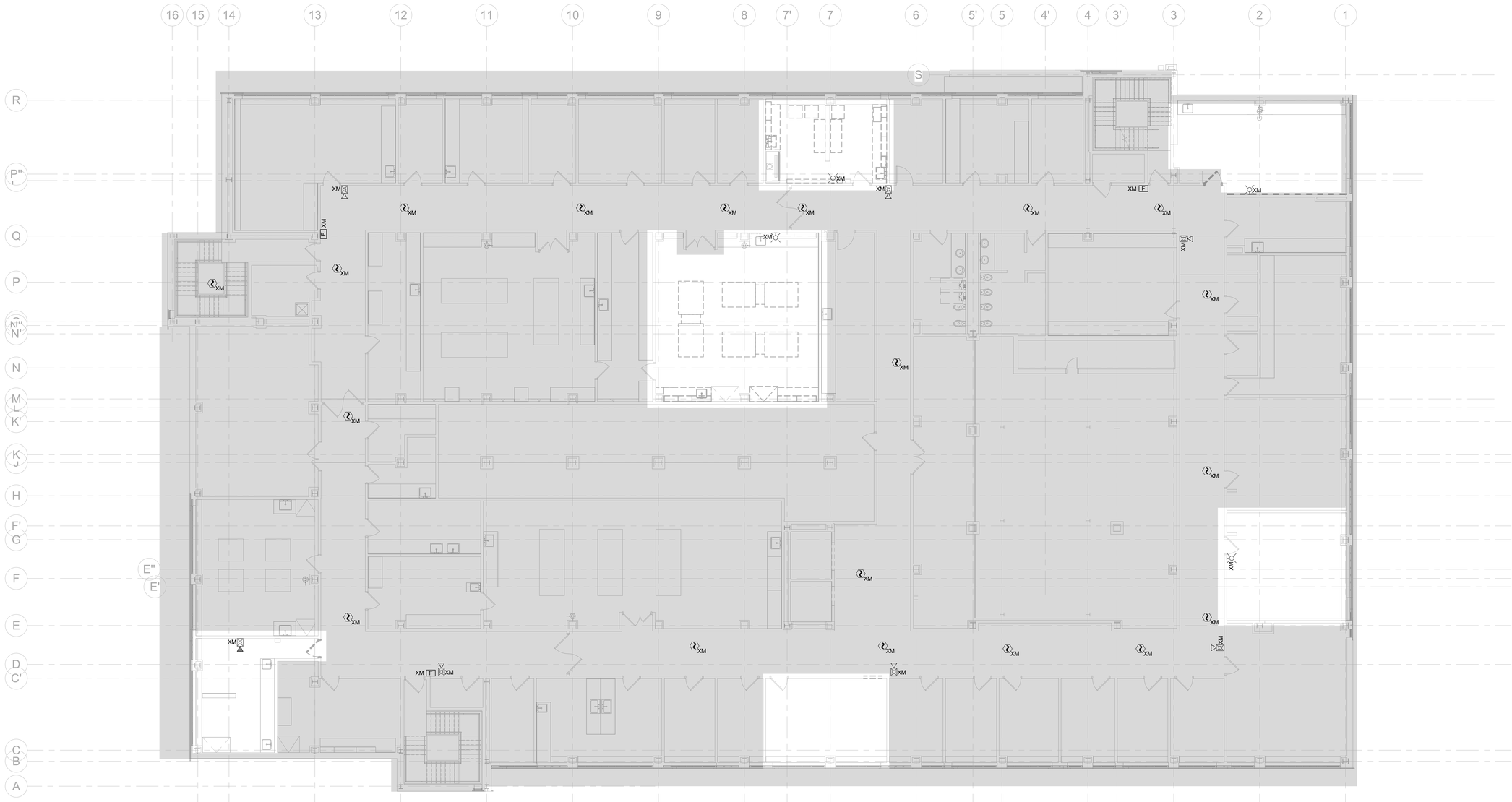

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DAVID PINTO
No. 079193
LICENSED PROFESSIONAL ENGINEER

FOR SEQUENCING OF WORK, REFER TO G-SERIES DRAWINGS

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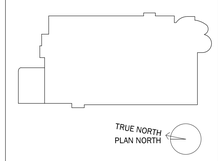

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FIRE ALARM - DEMO THIRD FLOOR SURGE

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GENERAL NOTES:

1. REFER TO ARCHITECTURAL & STRUCTURAL SERIES DRAWINGS FOR STRUCTURAL FRAMING PLANS, DETAILED REFLECTED CEILING PLANS, ELEVATIONS, AND SECTIONS.
2. IN AREAS WITH FINISHED CEILINGS, LOCATE CEILING MOUNTED DEVICES AND APPLIANCES IN THE CENTER OF SUSPENDED CEILING TILES, ALONG THE CENTER-LINE OF CEILING FEATURES AND IN-LINE WITH ADJACENT CEILING FIXTURES.
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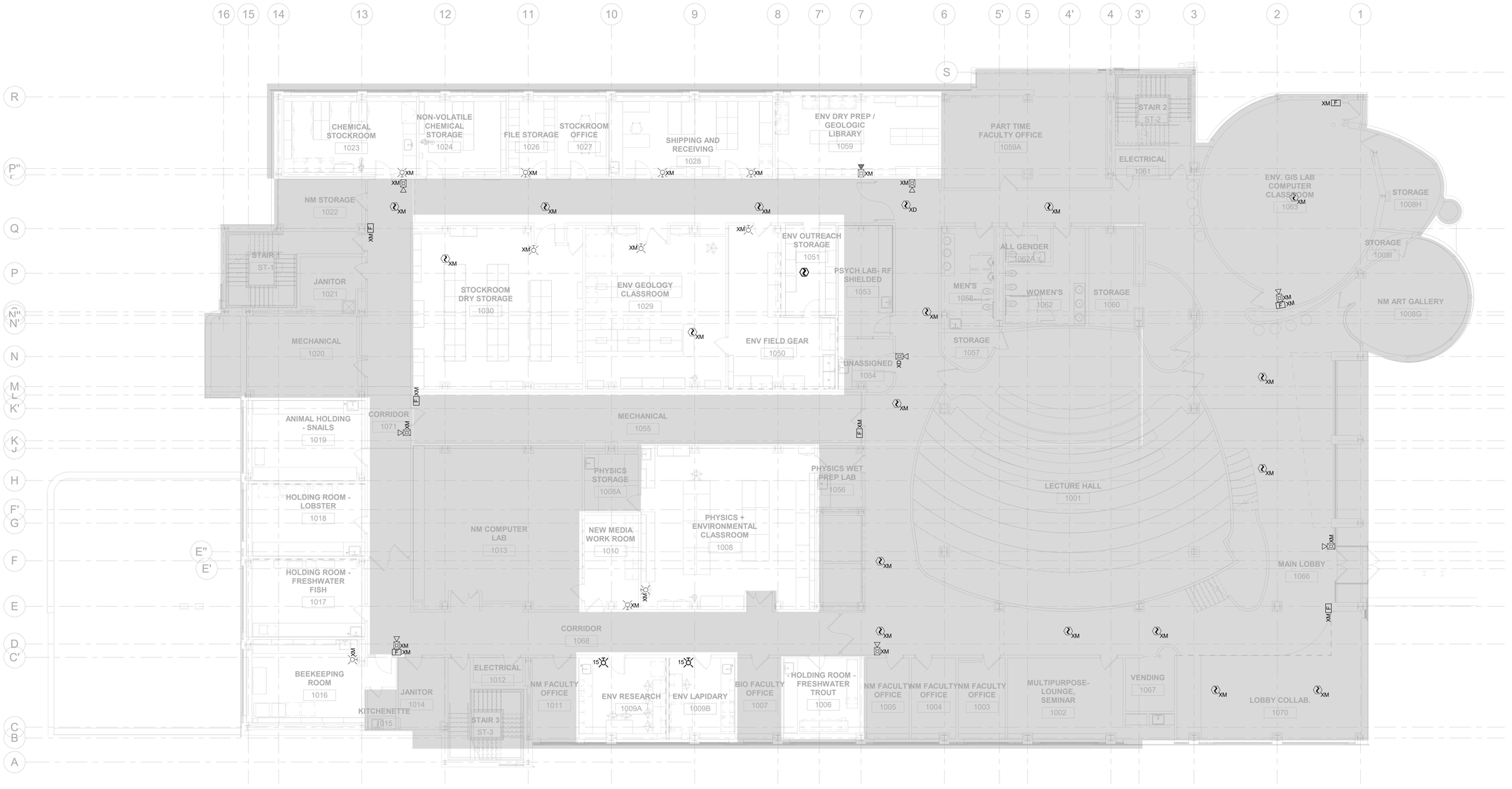

1 FIRE ALARM - FIRST FLOOR SURGE
1/8" = 1'-0"

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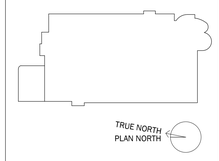

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RELOCATE EXISTING NOTIFICATION APPLIANCE IN SAME LOCATION TO ACCOMODATE NEW WALL. REPLACE ONLY AS NEEDED. PROTECT DEVICE FROM CONSTRUCTION DEBRIS.

1 FIRE ALARM - SECOND FLOOR SURGE
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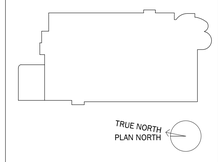

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FIRE ALARM - SECOND FLOOR SURGE

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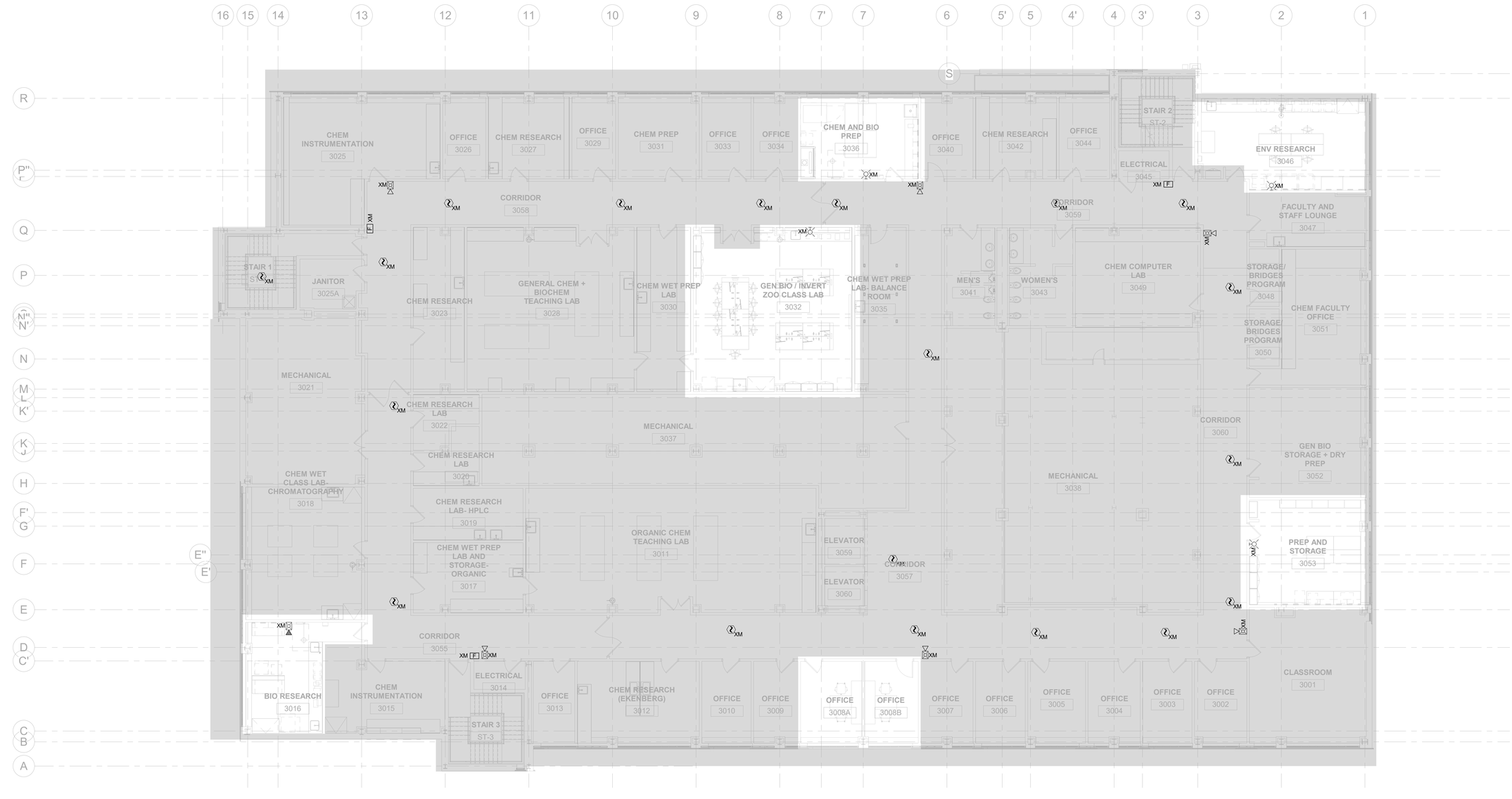

1 FIRE ALARM - THIRD FLOOR SURGE
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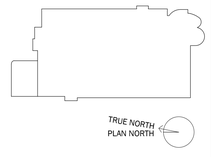

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FIRE ALARM - THIRD FLOOR SURGE

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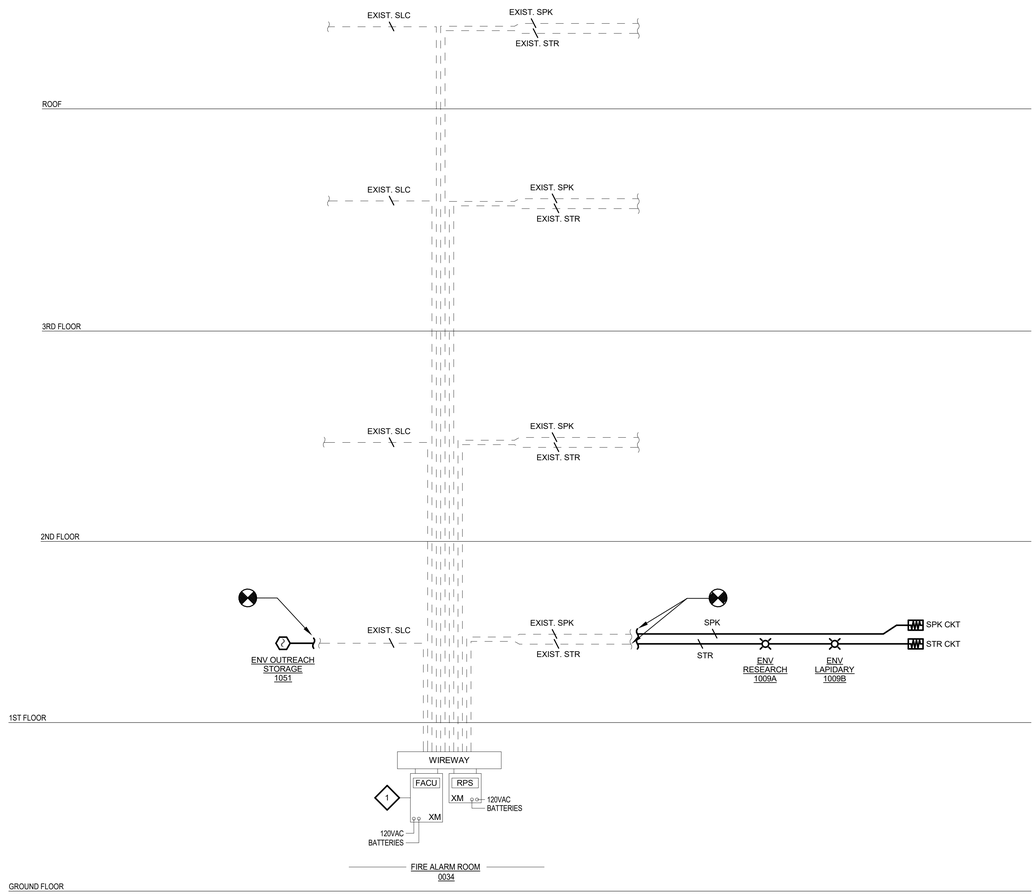

1 FIRE ALARM RISER DIAGRAM
SCALE: NTS

FIRE ALARM CIRCUIT LEGEND

TAG	CIRCUIT DESCRIPTION	WIRE TYPE
AUX	24 VDC POWER CIRCUIT	2C, 14AWG TP FPL
BAA	BI-DIRECTIONAL AMPLIFIER ANNUNCIATOR CIRCUIT	2C, 16AWG TP FPL
CAX	COAXIAL CABLE	1/2 IN., PLENUM RATED
COM	DATA COMMUNICATIONS CIRCUIT	2C, 16AWG TP FPL
DVC	DIGITAL VOICE CIRCUIT	2C, 16AWG TP FPL
IDC	INITIATING DEVICE CIRCUIT	2C, 16AWG TP FPL
NAC	NOTIFICATION APPLIANCE CIRCUIT (HORNS / STROBES)	2C, 14AWG TP FPL
RCS	RELAY CONTROL CIRCUIT (UNSUPERVISED)	2C, 16AWG TP FPL
SCC	STROBE SYNCHRONIZATION CIRCUIT	2C, 14AWG TP FPL
SER	SERIAL COMMUNICATIONS CIRCUIT (RS232 / RS485)	2C, 16AWG TP FPL
SLC	SIGNALING LINE CIRCUIT (ADDRESSABLE)	2C, 16AWG TP FPL
SPK	SPEAKER CIRCUIT	2C, 16AWG TSP FPL
STR	STROBE CIRCUIT	2C, 14AWG TP FPL

SOLID LINE DENOTES NEW WIRE

DASHED LINE DENOTES EXISTING WIRE

NOTES:

1. SLC AND COM SHALL BE SHIELDED OR NON-SHIELDED, AS REQUIRED BY THE FIRE ALARM MANUFACTURER.

FIRE ALARM RISER KEY NOTES:

1 EXISTING EST-3. NEW DEVICES TO BE EST-4 IN PREPARATION OF FUTURE FIRE ALARM PANEL REPLACEMENT.

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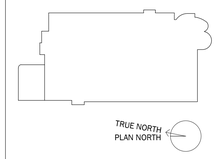

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FIRE ALARM - RISER DIAGRAM

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KEY NOTES:

◇1 ACTIVATION OF HEAT DETECTORS SHALL INITIATE A DELAY IN THE ACTIVATION OF THE ELEVATOR POWER SHUNT TRIP, THE DELAY SHALL BE, AT A MINIMUM, THE TIME IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL, COORDINATE FINAL TIME DELAY SETTING WITH THE ELEVATOR CONTRACTOR. PER DIRECTIVE 28-1.

			FIRE ALARM SYSTEM OUTPUTS																												
			CONTROL UNIT ANNUNCIATION					NOTIFICATION											REQUIRED FIRE SAFETY CONTROL												
								FIRE ALARM AUDIBLE / VISUAL				BASE BUILDING FIRE ALARM			SUPERVISING STATION				ELEVATORS						MECHANICAL				DOOR	MANUAL PAGING	
			ACTUATE COMMON ALARM SIGNAL INDICATOR & AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR & AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR & AUDIBLE TROUBLE SIGNAL	ACTUATE CARBON MONOXIDE ALARM SIGNAL INDICATOR& AUDIBLE ALARM SIGNAL	ANNUNCIATE CHANGE OF STATUS ON CONTROL UNIT LCD DISPLAY	ACTIVATE TEMPORAL 3 EVACUATION TONE THROUGHOUT THE BUILDING	ACTIVATE VISUAL NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING	ACTIVATE LOCAL SIREN TONE AND VISUAL NOTIFICATION APPLIANCE FOR EMERGENCY ALARM	ACTIVATE LOCAL SOUNDER FOR GAS DETECTOR	TRANSMIT ALARM SIGNAL TO BASE BUILDING FIRE ALARM SYSTEM	TRANSMIT SUPERVISORY SIGNAL TO BASE BUILDING FIRE ALARM SYSTEM	TRANSMIT TROUBLE SIGNAL TO BASE BUILDING FIRE ALARM SYSTEM	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	NOT USED	RECALL ASSOCIATED ELEVATOR(S) TO PRIMARY RECALL LEVEL (GROUND FLOOR)	RECALL ASSOCIATED ELEVATOR(S) TO ALTERNATE RECALL LEVEL (FIRE FLOOR)	ILLUMINATE VISUAL INDICATOR LIGHT	INTERMITTENTLY FLASH VISUAL WARNING INDICATOR	OPEN RELIEF SMOKE VENT AT TOP OF ELEVATOR HOISTWAY	SHUNT TRIP POWER TO ASSOCIATED ELEVATOR(S) AFTER TIME DELAY	SHUT DOWN ASSOCIATED HVAC EQUIPMENT	CLOSE ASSOCIATED SMOKE ISOLATION DAMPER AT AIR HANDLING UNIT	CLOSE ASSOCIATED FIRE/SMOKE DAMPER(S)	TRANSMIT SIGNAL TO BUILDING AUTOMATION / MANAGEMENT SYSTEM	RELEASE ASSOCIATED EGRESS DOOR LOCKING MECHANISMS	ACTIVATE ASSOCIATED PAGING ZONE(S) AND BROADCAST MESSAGE	OVERRIDE FIRE ALARM VOICE EVACUATION MESSAGE
			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
FIRE ALARM SYSTEM INPUTS	1	SPRINKLER WATER FLOW	●				●	●	●			●			●														●		
	2	MANUAL PULL STATION	●				●	●	●			●			●														●		
	3	AREA SMOKE DETECTOR	●				●	●	●			●			●														●		
	4	GROUND FLOOR ELEVATOR LOBBY SMOKE DETECTOR	●				●	●	●			●			●					●	●								●		
	5	ELEVATOR LOBBY SMOKE DETECTOR (ALL OTHER FLOORS)	●				●	●	●			●			●				●		●								●		
	6	ELEVATOR MACHINE ROOM SMOKE DETECTOR	●				●	●	●			●			●				●		●	●							●		
	7	ELEVATOR MACHINE ROOM OR TOP OF ELEVATOR SHAFT HEAT DETECTOR	●				●	●	●			●			●				●		●	●		◇1					●		
	8	TOP OF ELEVATOR SHAFT SMOKE DETECTOR	●				●	●	●			●			●				●		●		●						●		
	9	GAS DETECTION SYSTEM					●				●		●			●															
	10	EMERGENCY ALARM PULL STATION					●			●			●			●															
	11	SPRINKLER / STANDPIPE CONTROL VALVE TAMPER		●			●						●			●															
	12	DUCT MOUNTED SMOKE DETECTOR (AIR HANDLING UNIT)		●			●						●			●									●	●					
	13	DUCT MOUNTED SMOKE DETECTOR (FIRE SMOKE DAMPER)		●			●						●			●											●				
	14	FIRE ALARM SYSTEM SYSTEM LOW BATTERY			●		●							●			●														
	15	FIRE ALARM SYSTEM OPEN CIRCUIT			●		●							●			●														
	16	FIRE ALARM SYSTEM GROUND FAULT			●		●							●			●														
	17	FIRE ALARM SYSTEM BATTERY DISCONNECT			●		●							●			●														
	18	FIRE ALARM SYSTEM BATTERY CHARGER FAILURE			●		●							●			●														
	19	FIRE ALARM SYSTEM DEVICE COMMUNICATION FAILURE			●		●							●			●														
	20	FIRE ALARM SYSTEM INITIATING DEVICE FAILURE			●		●							●			●														
	21	FIRE ALARM SYSTEM AC POWER FAILURE			●		●							●			●														
	22	FIRE ALARM SYSTEM PROCESSOR FAILURE			●		●							●			●														
	23	FIRE PUMP RUN		●			●																					●			
	24	FIRE PUMP PHASE LOSS		●			●																					●			
	25	FIRE PUMP PHASE REVERSAL		●			●																					●			
	26	FIRE PUMP CONNECTED TO STANDBY POWER		●			●																					●			
	27	MANUAL PAGE - ZONED BY LEVEL					●																							●	●
	28	MANUAL PAGE - STAIR #1					●																							●	
	29	MANUAL PAGE - STAIR #2					●																							●	
	30	MANUAL PAGE - STAIR #3					●																							●	
	31	NOT USED																													
	32	MANUAL PAGE - ELEVATORS 1 & 2					●																							●	
	33	MANUAL PAGE - ALL CALL					●																							●	●

(1) FIRE ALARM MATRIX
N/A

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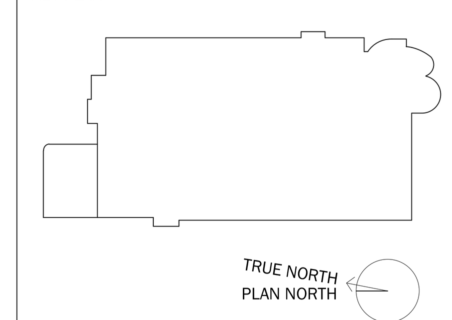

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FIRE ALARM - SEQUENCE OF OPERATIONS

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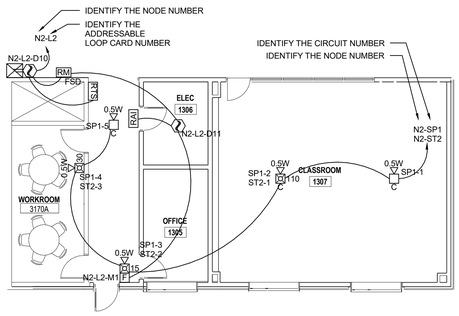
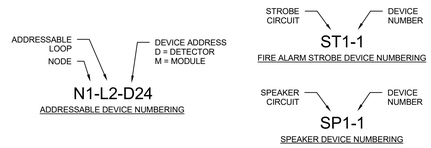


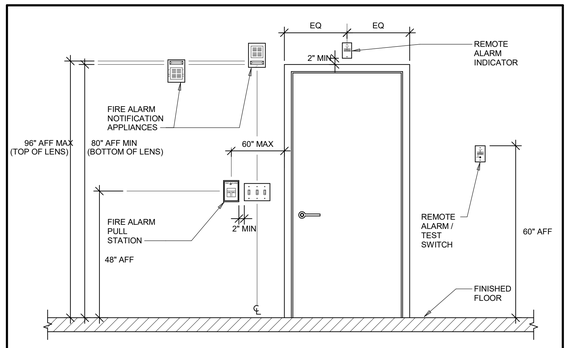


NOTES:

1. SHOP DRAWINGS SHALL INCLUDE ALL SIGNALING LINE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS WITH ALL CONNECTED DEVICES, APPLIANCES, AND COMPONENTS.
2. SHOP DRAWINGS SHALL INCLUDE EACH ADDRESS FOR EACH DEVICE ON THE ADDRESSABLE LOOP. ALL MODULES SHALL BE LABELED FOR FUNCTION (I.E. FSD FOR FIRE SMOKE DAMPER, ETC).
3. SHOP DRAWINGS SHALL INCLUDE EACH AUDIBLE DEVICE SPEAKER TAP SETTING AND SPEAKER CIRCUIT NUMBER.
4. SHOP DRAWINGS SHALL INCLUDE EACH VISIBLE DEVICE STROBE SETTING AND NAC CIRCUIT NUMBER.

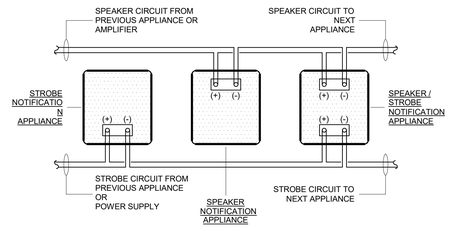
FA01 FIRE ALARM SHOP DRAWING CONTENT REQUIREMENTS

SCALE: NONE



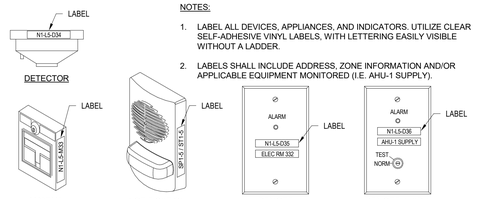
FA02 WALL-MOUNT DEVICE AND APPLIANCE MOUNTING LOCATION CRITERIA

SCALE: NONE



FA04 NOTIFICATION APPLIANCE (VOICE) WIRING SCHEMATIC

SCALE: NONE



NOTES:

1. LABEL ALL DEVICES, APPLIANCES, AND INDICATORS. UTILIZE CLEAR SELF-ADHESIVE VINYL LABELS, WITH LETTERING EASILY VISIBLE WITHOUT A LADDER.
2. LABELS SHALL INCLUDE ADDRESS, ZONE INFORMATION AND/OR APPLICABLE EQUIPMENT MONITORED (I.E. AHU-1 SUPPLY).

FA03 FIRE ALARM DEVICE LABEL REQUIREMENTS

SCALE: NONE

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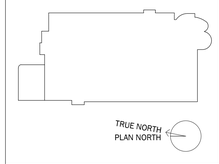
LICENSED PROFESSIONAL ENGINEER

FOR SEQUENCING OF WORK, REFER TO G-SERIES DRAWINGS

KEY PLAN



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FIRE ALARM - DETAILS

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GOODY CLANCY PROJECT NUMBER: 25006

FILE NAME:

DRAWN: CM	DATE: 01/16/2026
CHECKED: BL	SCALE: AS NOTED

DRAWING NO.:

FAS6.01

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PIPE REPRESENTATION

- EXISTING COLD WATER (CW)
- EXISTING HOT WATER (HW)
- EXISTING ACID WASTE (AW)
- EXISTING ACID VENT (AV)
- EXISTING COMPRESSED AIR (CA)
- EXISTING VACUUM (VA)
- EXISTING REVERSE OSMOSIS (RO)
- NEW CW
- NEW HW
- NEW HWR
- NEW ACID WASTE
- NEW ACID VENT
- NEW COMPRESSED AIR (CA)
- NEW VACUUM (VA)
- NEW REVERSE OSMOSIS (RO)

PIPE VALVES AND ACCESSORIES

- REDUCED PRESSURE ZONE BACKFLOW PREVENTER(ASSE1013)
- DOUBLE CHECK VALVE ASSEMBLY(ASSE1015)
- BALL VALVE
- CHECK VALVE
- SOLENOID VALVE
- GATE VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- PLUG VALVE
- BALANCING VALVE
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTER (ASSE 1024)
- BACK WATER VALVE
- PUMP
- WATER HAMMER ARRESTOR ('A' = PDI SIZE)
- PRESSURE GAUGE
- THERMOMETER GAUGE
- AQUASTAT VALVE
- STRAINER

PIPE FITTINGS

- REDUCER/INCREASER
- CAPPED CONNECTION
- PIPE UNION
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- TEE UP
- TEE DOWN
- SHUT-OFF VALVE IN RISER

NOTE:
ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

ENERGY CODE COMPLIANCE NOTE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE (NYSECCC) 105.2.2 REQUIREMENTS.

CODES / STANDARD

2020 NEW YORK STATE BUILDING CODE

2020 NEW YORK STATE PLUMBING CODE

2020 NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE (NYSECCC) WITH NEW YORK STRETCH ENERGY CODE

SYMBOLS

- W / 1 — DOMESTIC WATER RISER DESIGNATION
- S / 1 — SANITARY WATER RISER DESIGNATION
- V / 1 — VENT RISER DESIGNATION
- 1 — REVISION NUMBER
- POINT OF DEMOLITION
- POINT OF CONNECTION

DETAIL ANNOTATIONS

- 2 / P101 — DETAIL NUMBER / WHERE THE DETAIL IS DRAWN

MISCELLANEOUS

- CO — HORIZONTAL CLEANOUT
- WH — WALL HYDRANT
- HB — HOSE BIB
- M — WATER METER
- F — WATER FILTER
- VACCUM BREAKER
- TEMPERATURE AND PRESSURE RELIEF VALVE
- BREAK PIPE BELOW

DRAINS

- AD — AREA DRAIN
- FD — FLOOR DRAIN
- GD — GARAGE DRAIN
- FCO — FLOOR CLEAN OUT
- FS — FLOOR SINK DRAIN
- FUNNEL FLOOR DRAIN
- OSD — OPEN SITE DRAIN

NOTE:
ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

ABBREVIATIONS

ABV	ABOVE
AD	AREA DRAIN
ADA	AMERICAN DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
AAV	AIR ADMITTANCE VALVE
AV	ACID VENT
AW	ACID WASTE
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BV	BACKWATER VALVE
CA	COMPRESSED AIR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUTS
CODP	CLEANOUT DECK PLATE
CONT	CONTINUATION
CTE	CONNECT TO EXISTING
CW	COLD WATER
(D)	DEMOLISH EXISTING
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DF	DRINKING FOUNTAIN
(E)	EXISTING
EA	EACH
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
EST	EMERGENCY STORM WATER
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EW	EYE WASH
F	WATER FILTER
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOW SWITCH
FT	FEET
FW	FORCED WASTE
GAL	GALLON
GCO	GRADE CLEANOUTS
GPM	GALLONS PER MINUTE
HB	HOSE BIB
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
HW	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HWSH	HOT WATER STORAGE/HEATER
IN	INCH
INV	INVERT
KW	KILOWATT
LAV	LAVATORY
LV	LAB VENT
LW	LAB WASTE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
MTD	MOUNTED
(N)	NEW
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NUMBER
NFWH	NON FREEZE WALL HYDRANT
P	PUMP
PH	PHASE (ELECTRICAL)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
(R)	REMOVAL
REF	REFRIGERATOR
RD	ROOF DRAIN
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY/WASTE PIPE
SF	SQUARE FEET
SFU	SUPPLY FIXTURE UNIT
SS	STAINLESS STEEL
ST	STORM WATER
STG	STORM FROM GREEN ROOF
STRUC	STRUCTURAL
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER TUBE
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
VTR	VENT THRU ROOF
W	WATT
WC	WATER CLOSET
WCO	WALL CLEANOUTS
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WM	WATER METER
WTR	WATER
W/	WITH
W/O	WITHOUT

NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

PLUMBING DRAWING LIST

SHEET	DRAWING	TITLE
1	P0.01	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
2	P1.00	FIRST FLOOR PLUMBING PLAN
3	P1.01	SECOND FLOOR PLUMBING PLAN
4	P1.02	THIRD FLOOR PLUMBING PLAN
5	P2.00	PARTIAL PLUMBING PLANS
6	P2.01	PARTIAL PLUMBING PLANS
7	P2.02	PARTIAL PLUMBING PLANS
8	P2.03	PARTIAL PLUMBING PLANS
9	P3.00	PLUMBING SUPPLY RISER
10	P3.01	PLUMBING RISER
11	P6.00	PLUMBING SCHEDULES
12	P6.01	PLUMBING DETAILS
13		ROOF PLAN - SANITARY/STORM

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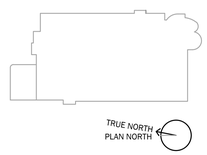

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GENERAL NOTES, SYMBOLS & ABBREVIATIONS

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DRAWN: Author | DATE: 01/16/2025

CHECKED: Checker | SCALE: N.T.S

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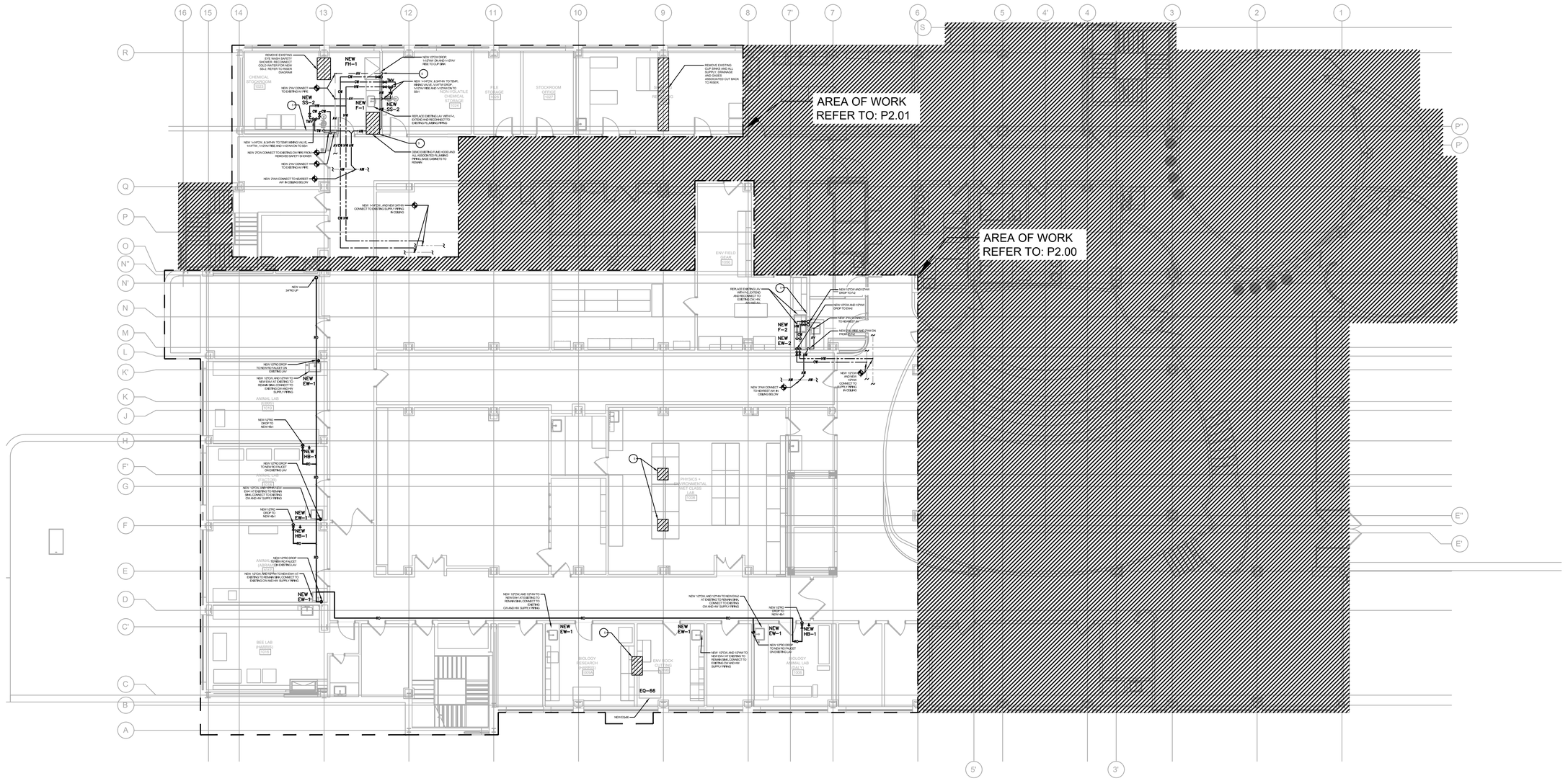

1 SURGE - FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"

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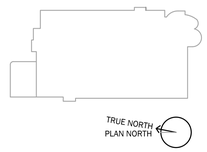

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FIRST FLOOR PLUMBING PLAN

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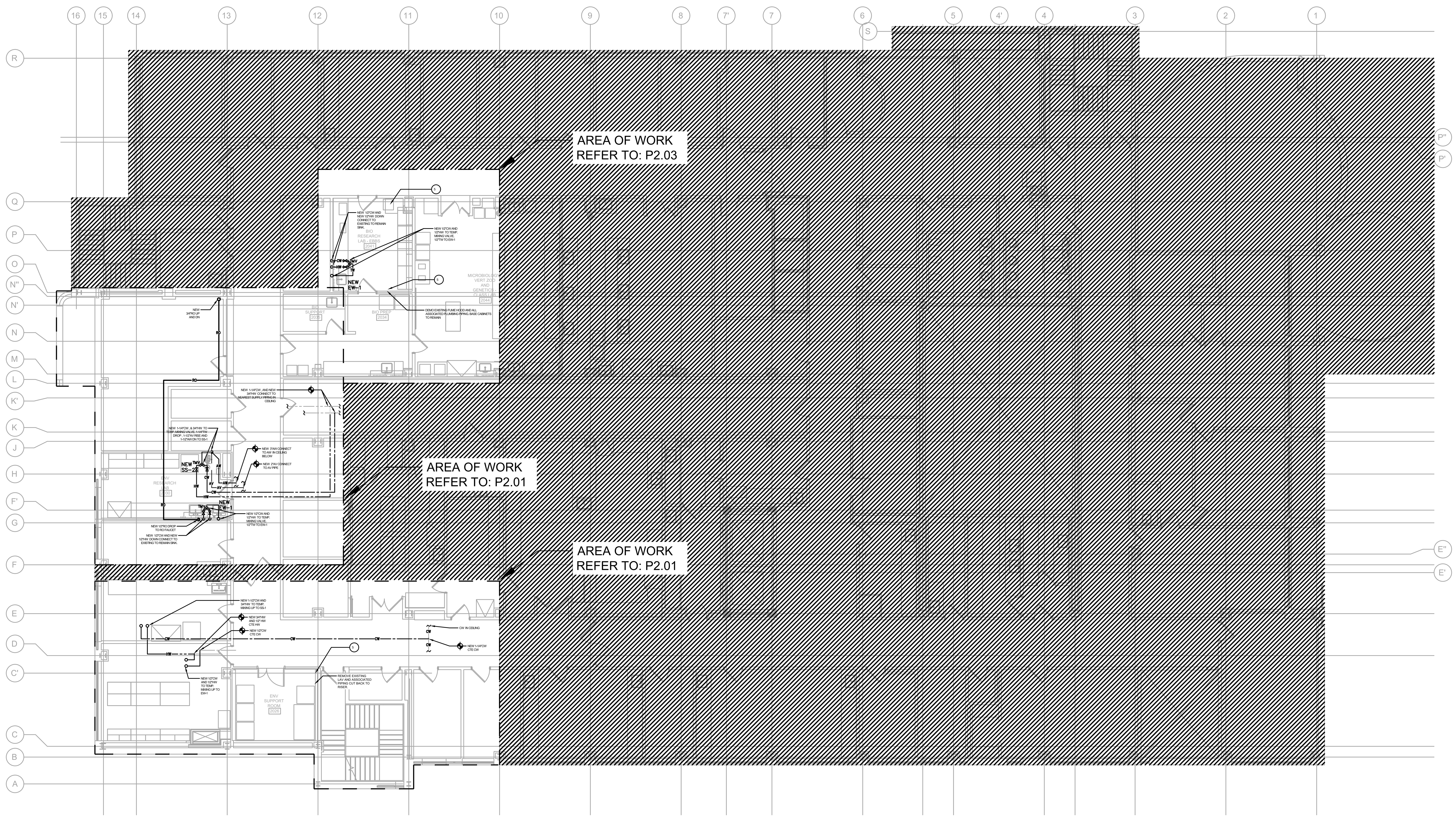

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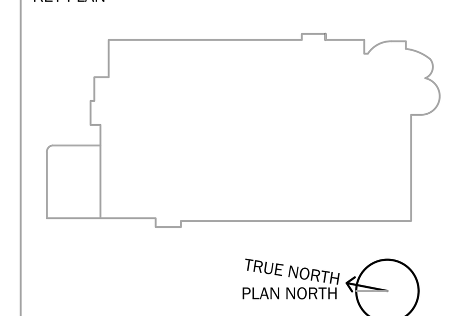

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SECOND FLOOR PLUMBING PLAN

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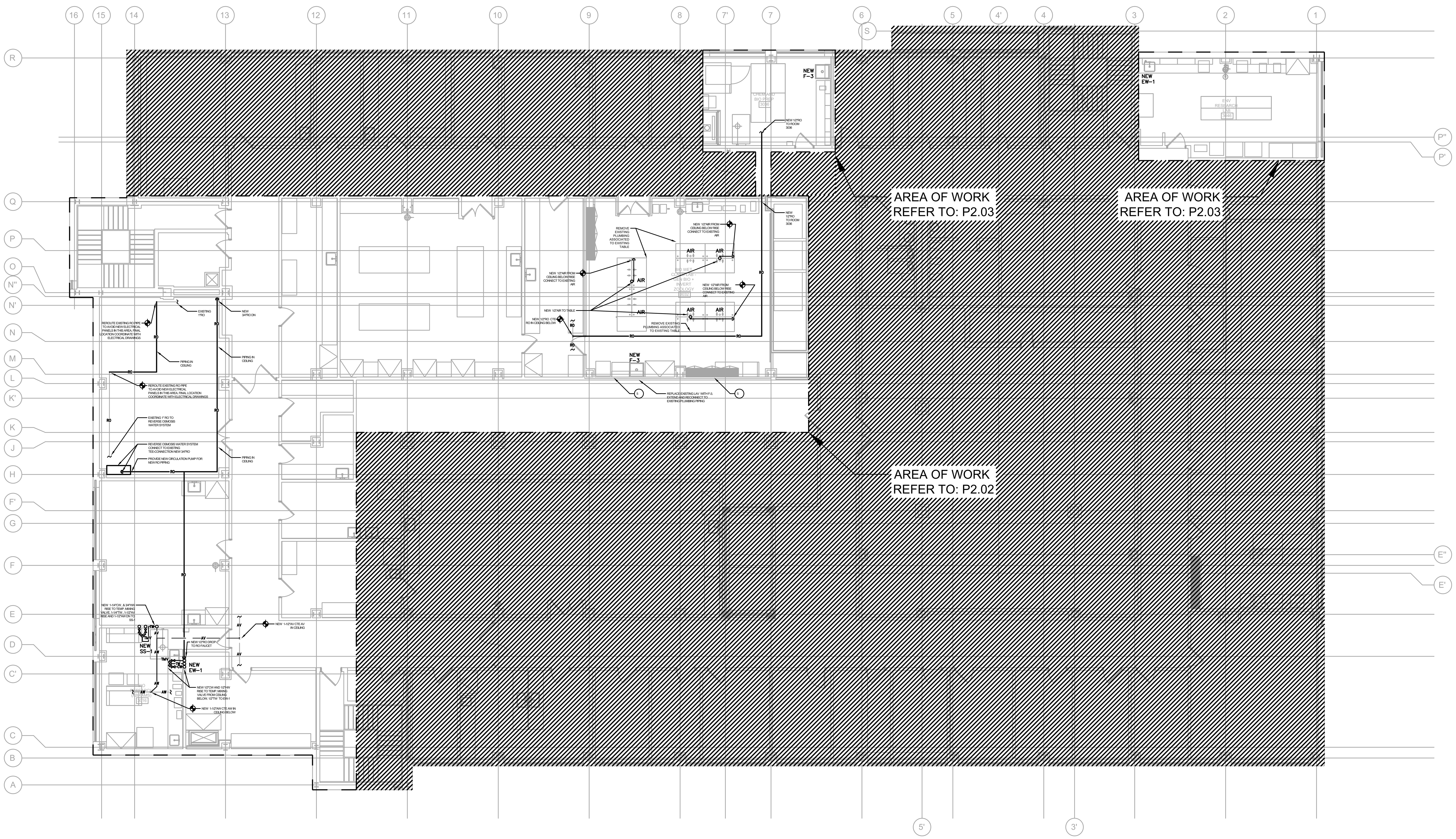

1 SURGE - THIRD FLOOR PLUMBING PLAN
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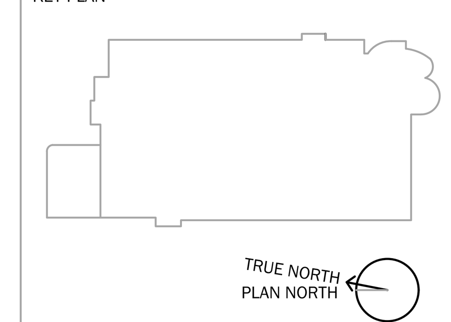

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THIRD FLOOR PLUMBING PLAN

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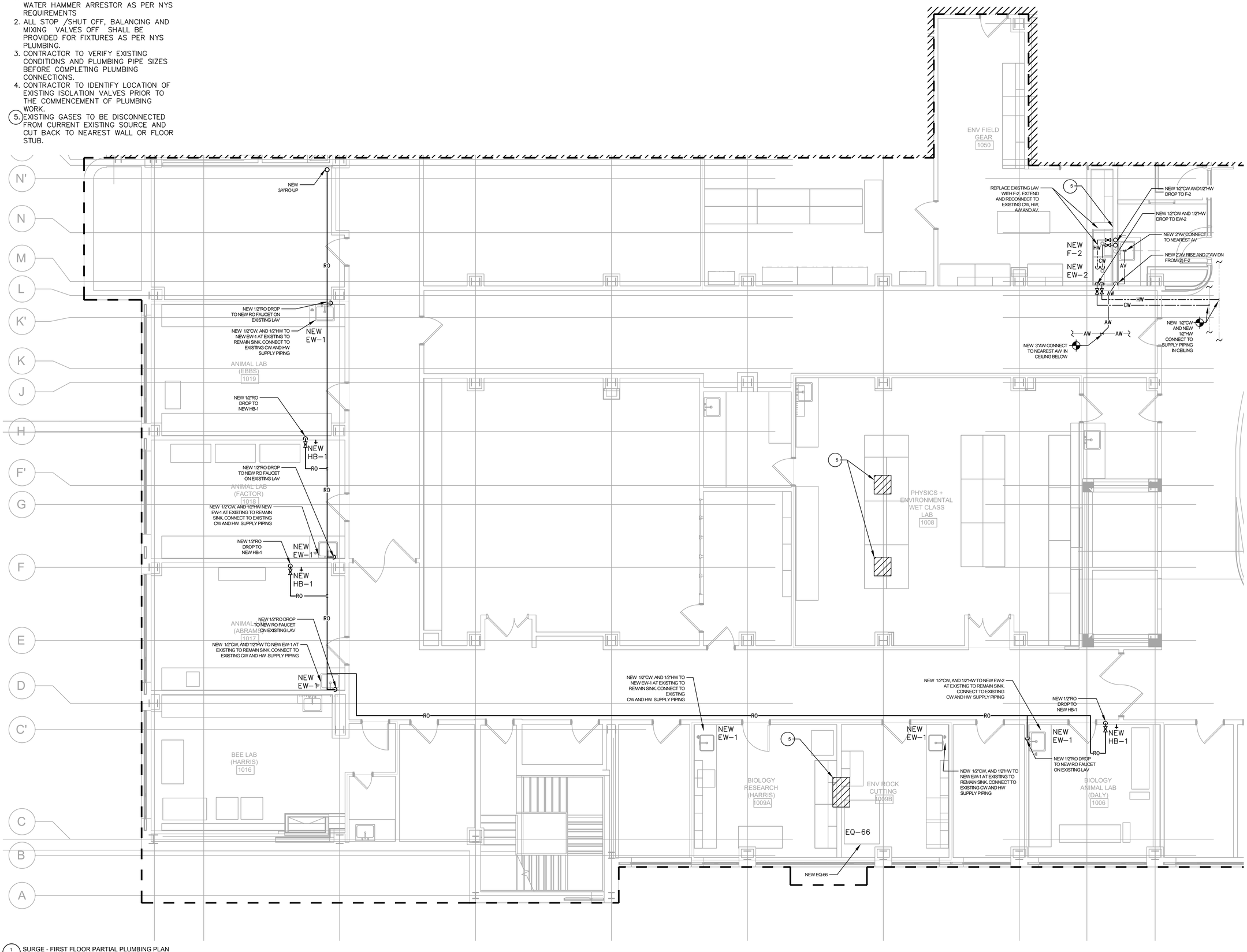
P1.02

DRAWING NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL WATER HAMMER ARRESTOR AS PER NYS REQUIREMENTS
2. ALL STOP /SHUT OFF, BALANCING AND MIXING VALVES OFF SHALL BE PROVIDED FOR FIXTURES AS PER NYS PLUMBING.
3. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND PLUMBING PIPE SIZES BEFORE COMPLETING PLUMBING CONNECTIONS.
4. CONTRACTOR TO IDENTIFY LOCATION OF EXISTING ISOLATION VALVES PRIOR TO THE COMMENCEMENT OF PLUMBING WORK.
5. EXISTING GASES TO BE DISCONNECTED FROM CURRENT EXISTING SOURCE AND CUT BACK TO NEAREST WALL OR FLOOR STUB.



1 P2.00 SURGE - FIRST FLOOR PARTIAL PLUMBING PLAN
1/4" = 1'-0"

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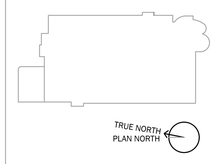

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PARTIAL PLUMBING PLANS

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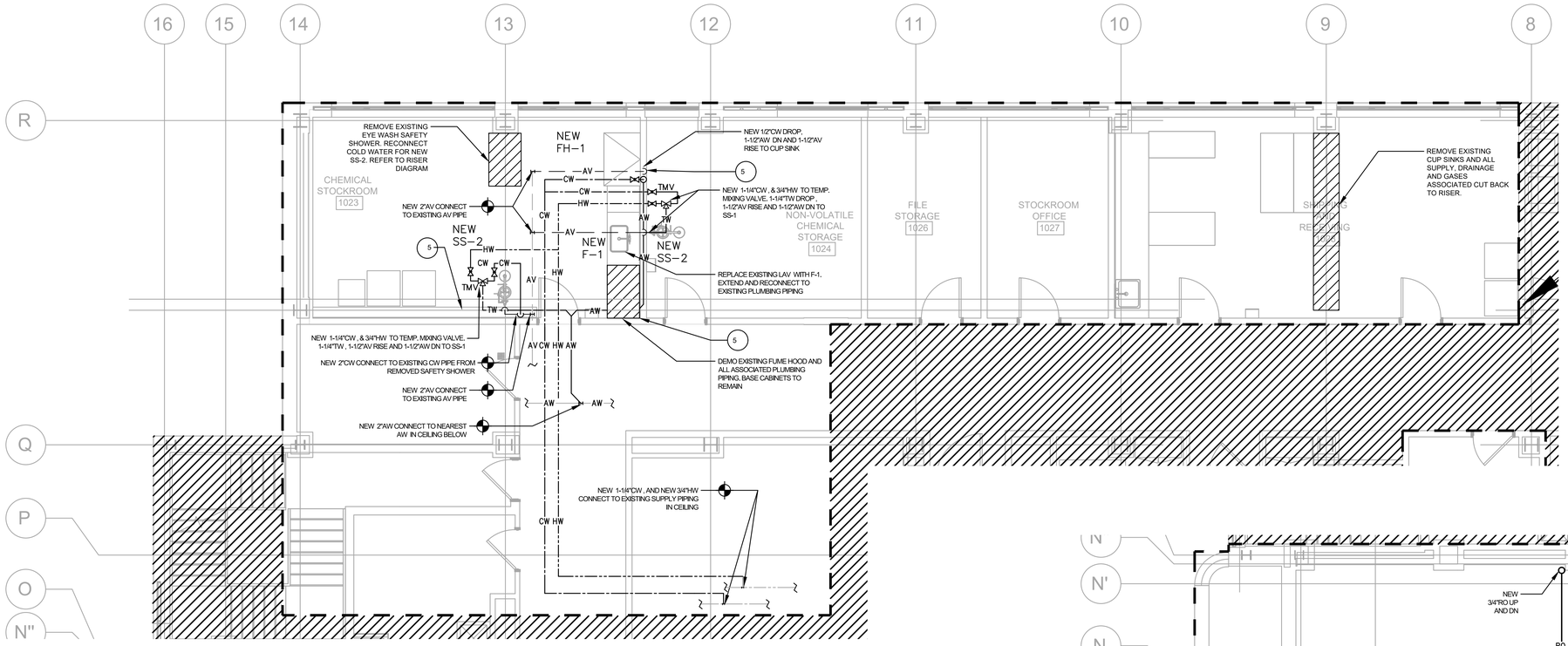

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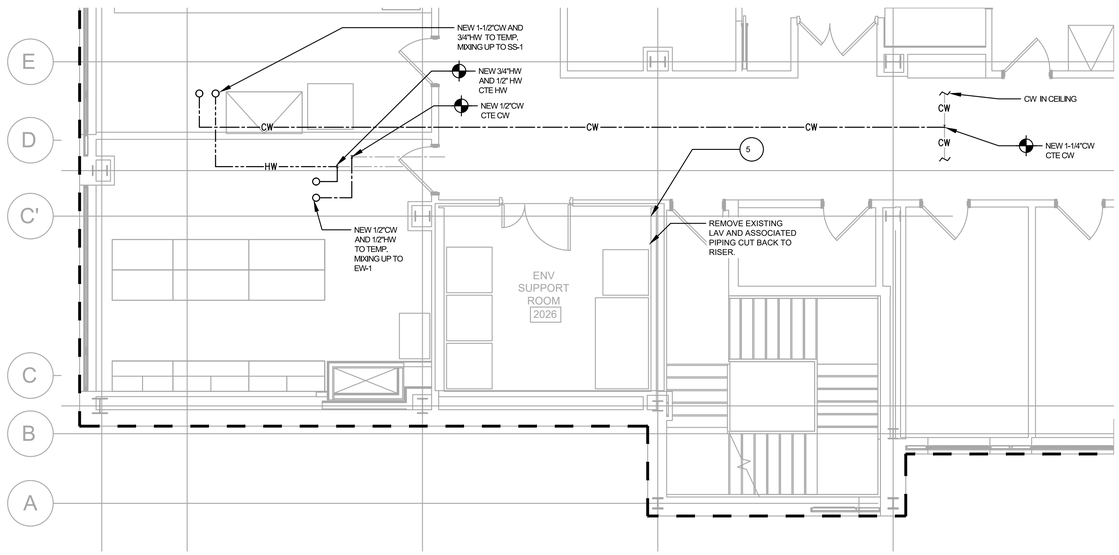

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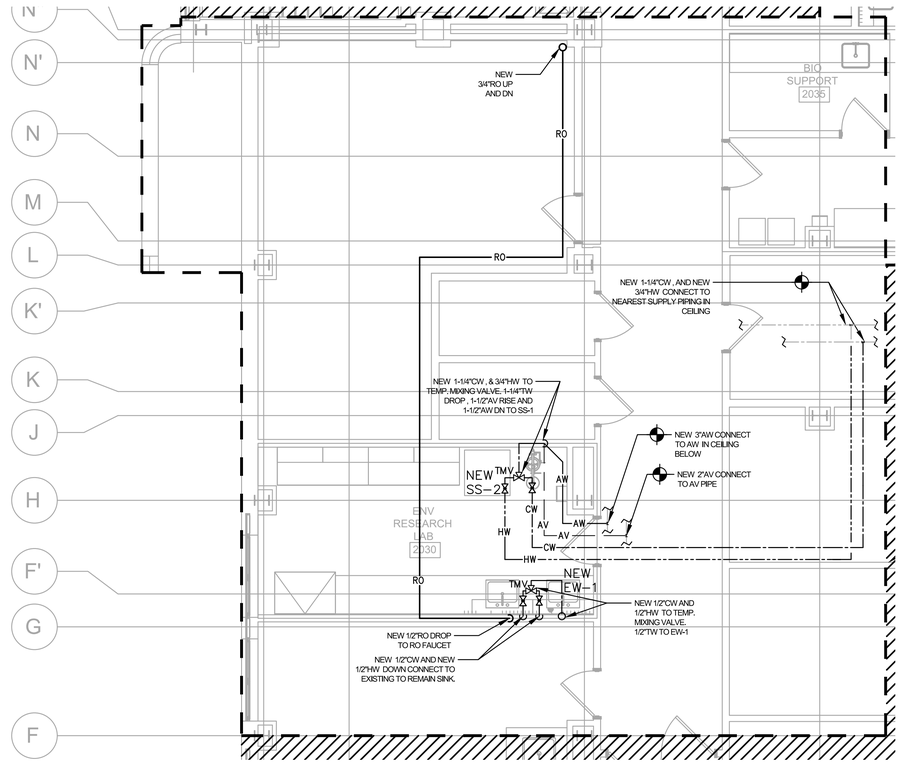

3 P2.01 SURGE - SECOND FLOOR PARTIAL PLUMBING PLAN
1/4" = 1'-0"

DRAWING NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL WATER HAMMER ARRESTOR AS PER NYS REQUIREMENTS
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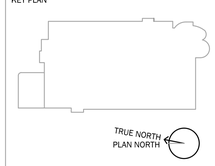

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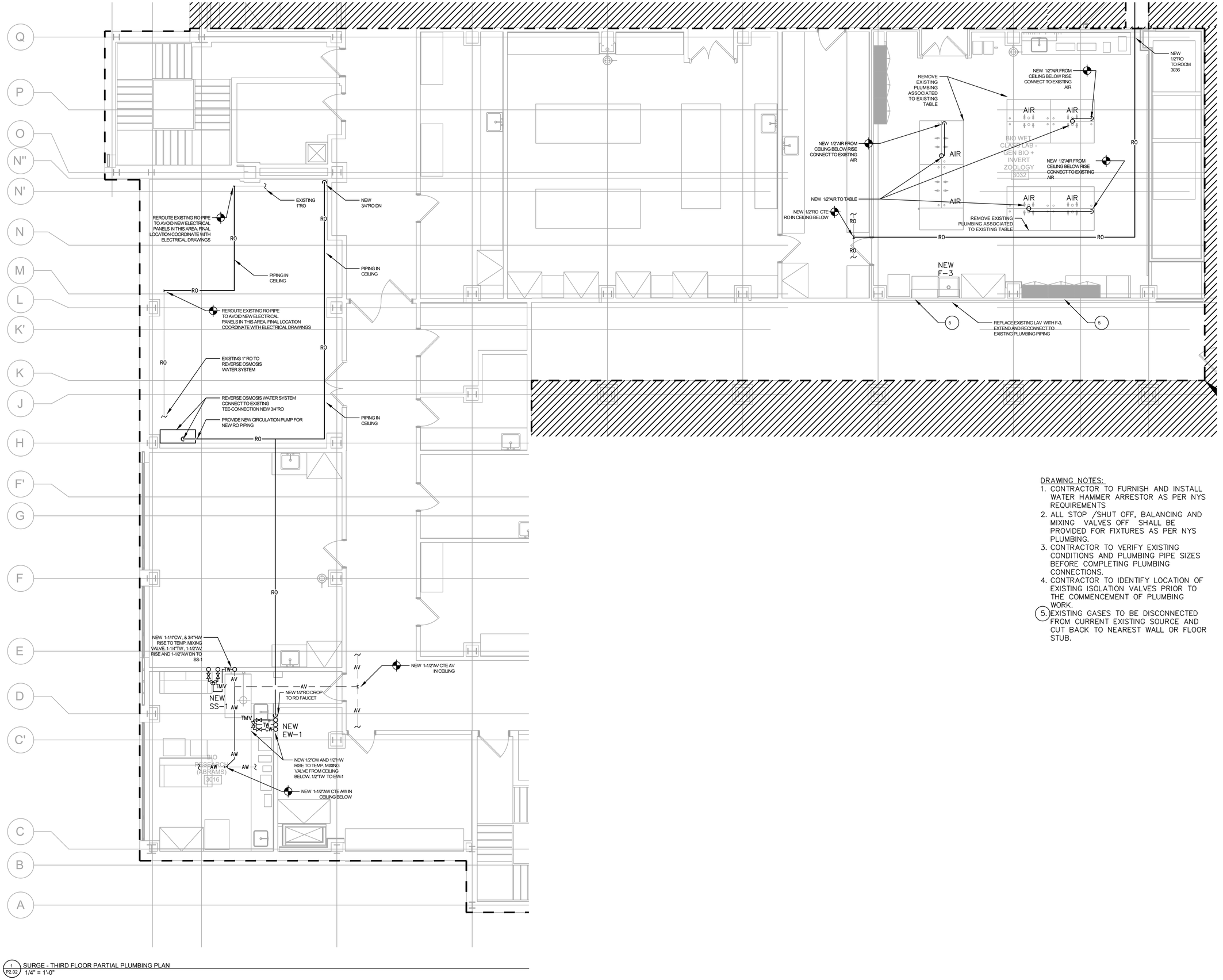

1 P2.02 SURGE - THIRD FLOOR PARTIAL PLUMBING PLAN
1/4" = 1'-0"

DRAWING NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL WATER HAMMER ARRESTOR AS PER NYS REQUIREMENTS
2. ALL STOP /SHUT OFF, BALANCING AND MIXING VALVES OFF SHALL BE PROVIDED FOR FIXTURES AS PER NYS PLUMBING.
3. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND PLUMBING PIPE SIZES BEFORE COMPLETING PLUMBING CONNECTIONS.
4. CONTRACTOR TO IDENTIFY LOCATION OF EXISTING ISOLATION VALVES PRIOR TO THE COMMENCEMENT OF PLUMBING WORK.
5. EXISTING GASES TO BE DISCONNECTED FROM CURRENT EXISTING SOURCE AND CUT BACK TO NEAREST WALL OR FLOOR STUB.

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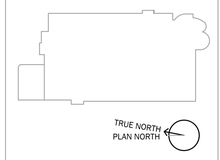
KEY PLAN



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PARTIAL PLUMBING PLANS

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GOODY CLANCY PROJECT NUMBER: 25006

FILE NAME:

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DRAWING NO.:

P2.02

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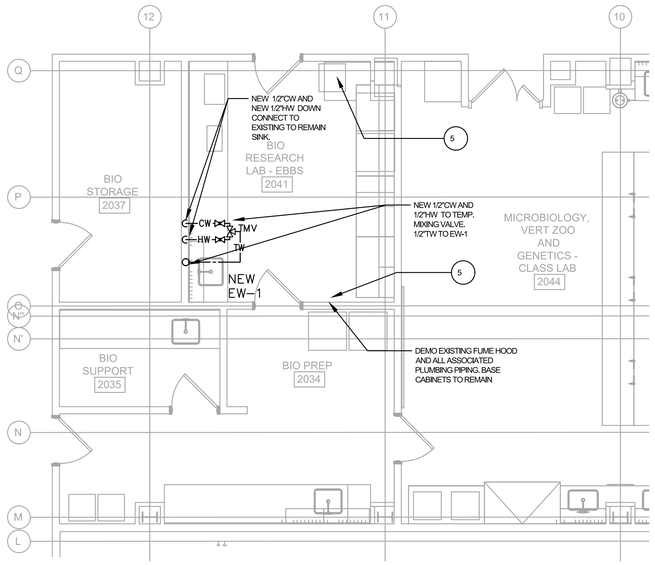
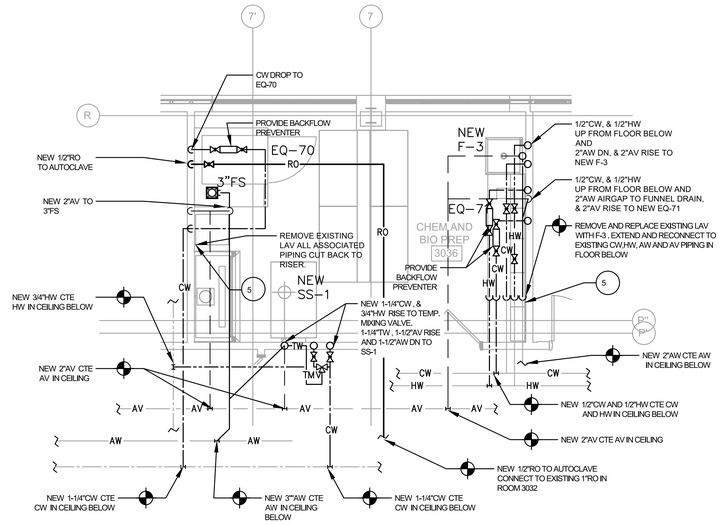


1 P2.03 SURGE - SECOND FLOOR PARTIAL PLUMBING PLAN
1/4" = 1'-0"

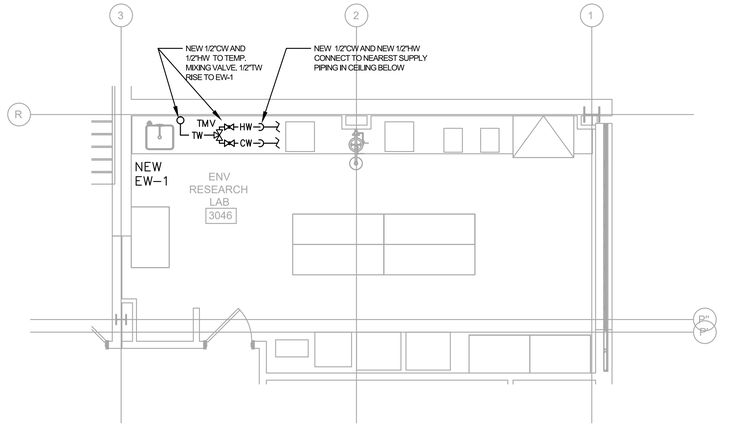


2 P2.03 SURGE - THIRD FLOOR PARTIAL PLUMBING PLAN
1/4" = 1'-0"

DRAWING NOTES:

1. CONTRACTOR TO FURNISH AND INSTALL WATER HAMMER ARRESTOR AS PER NYS REQUIREMENTS
2. ALL STOP /SHUT OFF, BALANCING AND MIXING VALVES OFF SHALL BE PROVIDED FOR FIXTURES AS PER NYS PLUMBING.
3. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND PLUMBING PIPE SIZES BEFORE COMPLETING PLUMBING CONNECTIONS.
4. CONTRACTOR TO IDENTIFY LOCATION OF EXISTING ISOLATION VALVES PRIOR TO THE COMMENCEMENT OF PLUMBING WORK.

5. EXISTING GASES TO BE DISCONNECTED FROM CURRENT EXISTING SOURCE AND CUT BACK TO NEAREST WALL OR FLOOR STUB.



3 P2.03 SURGE - THIRD FLOOR PARTIAL PLUMBING PLAN
1/4" = 1'-0"

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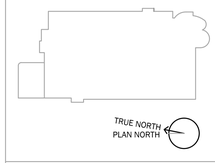

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1 SURGE - PLUMBING SUPPLY RISER DIAGRAM
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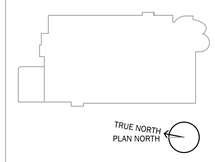

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PLUMBING SUPPLY RISER

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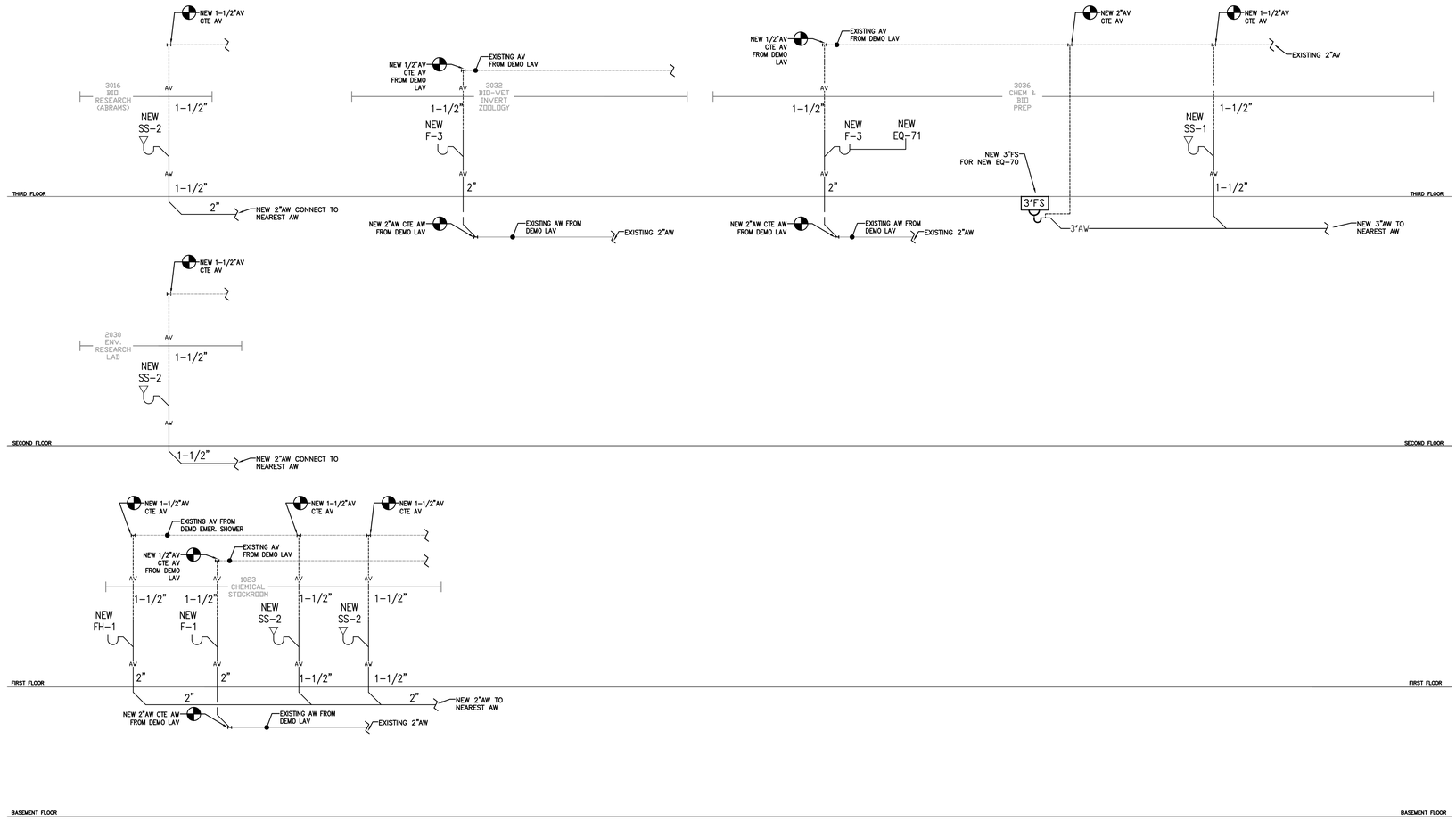
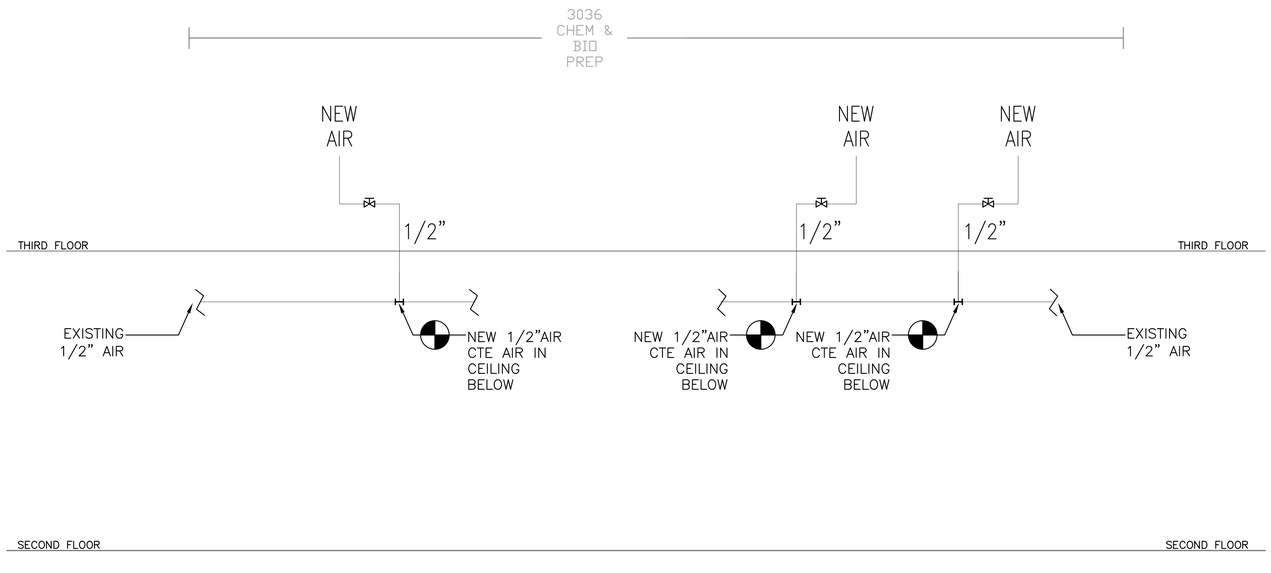


1 SURGE - PLUMBING ACID WASTE & ACID VENT RISER DIAGRAM
N.T.S



2 SURGE - PLUMBING AIR RISER DIAGRAM
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PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	ADA	MANUFACTURER	MODEL	FLUSHOMETER/FAUCET	DESCRIPTION	MOUNTING	NOTES	PLUMBING ROUGH-IN			
									CW	HW	WASTE	VENT
3" FS	FLOOR SINK	NO	ZURN	Z1990	-	SANI-FLOOR RECEPTOR 12"X 12"X 6" DEEP CAST IRON BODY AND SQUARE, LIGHT DUTY GRATE WITH 1/2"SLOTTED OPENING.	FLOOR MOUNT	-	-	-	3"	2"

LAB EQUIPMENT CONNECTION SCHEDULES

ID	FIXTURE	ADA	MANUFACTURER	MODEL	FAUCET	DESCRIPTION	MOUNTING	NOTES	PLUMBING ROUGH-IN			
									CW	HW	WASTE	VENT
F-1	LAB SINK	YES	DURCON	A56	WATER SAVER L414VB-BH	LABORATORY MIXING FAUCET, 6" SWING VACUUM BREAKER GOOSENECK, WRIST BLADE HANDLES	DECK MOUNTED	-	1/2"	1/2"	2"	1-1/2
F-2	TWO COMPARTMENT SCULLERY SINK	-	ELKAY	E2C20X20-0X	ELKAY LK940AT14T4S	STAINLESS STEEL TWO COMPARTMENT SINK, 18 GAUGE	SURFACE MOUNTED	-	1/2"	1/2"	2"	1-1/2"
F-3	SINGLE COMPARTMENT SCULLERY SINK	-	ELKAY	1C24X24-0X	ELKAY LK940AT14T4S	300 STAINLESS STEEL SINGLE COMPARTMENT SINK, 16 GAUGE	SURFACE MOUNTED	-	1/2"	1/2"	2"	1-1/2"
SS-1	EMERGENCY EYE WASH/SHOWER	-	WATER SAVER	SSBF2173	-	RECESSED SAFETY STATION WITH DRAIN PAN	SURFACE MOUNTED	WATER SAVER MIXING VALVE MODEL TM6040	-	1" (TEMPERED WATER)	-	-
SS-2	EMERGENCY EYE WASH/SHOWER	-	WATER SAVER	SS902	-	SAFETY STATION WITH EYEWASH, STAINLESS STEEL BOWL	FREE-STANDING	WATER SAVER MIXING VALVE MODEL TM6040	-	1" (TEMPERED WATER)	-	-
EW-1	EYEWASH / DRENCH HOSE UNIT	-	WATER SAVER	EW1026BP EW1022BP	-	EYEWASH/DRENCH HOSE UNIT	CONFIRM WITH ARCHITECTURAL DRAWINGS	WATER SAVER MIXING VALVE MODEL TM6020	-	1/2" (TEMPERED WATER)	-	-
EW-2	DRENCH HOSE UNIT	-	WATER SAVER	EW1016	-	DRENCH HOSE UNIT, WALL MOUNTED	WALL MOUNTED	WATER SAVER MIXING VALVE MODEL TM6020	-	1/2" (TEMPERED WATER)	-	-
FH-1	FUME HOOD	-	SEE ARCHITECTURAL DRAWINGS	-	-	CUP SINK	-	-	1/2"	-	2"	1-1/2"
EQ-66	SLAB SAW										3"	2"
EQ-70	AUTOCLAVE	-	CONSOLIDATED STERILIZER SYSTEMS	SSR-3A	-	-	-	-	1-1/2"	-	3"	2"
EQ-71	GLASSWASHER	-	RELIANCE 100 SERIES	100 UNDERCOUNTER	-	UNDER COUNTER	-	DRAIN WATER COOLING KIT	1/2"	1/2"	-	-
RO FAUCET	RO FAUCET	-	WATERSAVER	L691	NEW RO FAUCET	RO FAUCET	-				-	-

PLUMBING PIPING MATERIAL SCHEDULE

STORM PIPING	ABOVE GROUND (NPS 6 AND SMALLER)	SEE SPECIFICATION SECTIONS 221413 AND 221423
	ABOVE GROUND (NPS 8 AND LARGER)	SEE SPECIFICATION SECTIONS 221413 AND 221423
	UNDER GROUND (NPS 6 AND SMALLER)	SEE SPECIFICATION SECTIONS 221413 AND 221423
SANITARY PIPING (WASTE AND VENT)	ABOVE GROUND - WASTE PIPING (NPS 4 AND SMALLER)	SEE SPECIFICATION SECTIONS 221316
	ABOVE GROUND - WASTE PIPING (NPS 5 AND LARGER)	SEE SPECIFICATION SECTIONS 221316
	ABOVE GROUND - VENT PIPING (NPS 4 AND SMALLER)	SEE SPECIFICATION SECTIONS 221316
	UNDER GROUND - WASTE PIPING (NPS 4 AND SMALLER)	SEE SPECIFICATION SECTIONS 221316
	UNDER GROUND - WASTE PIPING (NPS 5 AND LARGER)	SEE SPECIFICATION SECTIONS 221316
DOMESTIC WATER COLD WATER, HOT WATER, HOT WATER RETURN AND RO WATER)	ABOVE GROUND (NPS 2 AND SMALLER)	SEE SPECIFICATION SECTIONS 221116 AND 221119
	ABOVE GROUND (NPS 2 1/2 TO NPS 4)	SEE SPECIFICATION SECTIONS 221116 AND 221119

BACKFLOW PREVENTER SCHEDULE

UNIT TAG	SIZE	LOCATION	SERVICE	MANUFACTURER MODEL	REMARKS
BFP-1	1-1/4"	3036	DOMESTIC	**WATTS LF909S-U-QT**	--
BFP-2	1/2"	3036	DOMESTIC	**WATTS LF009S-U-QT**	

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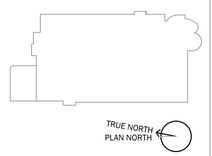

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PLUMBING SCHEDULES

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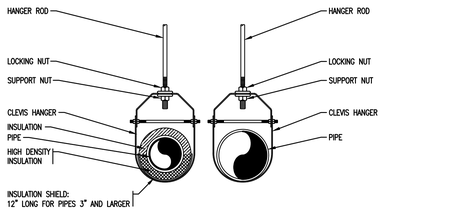
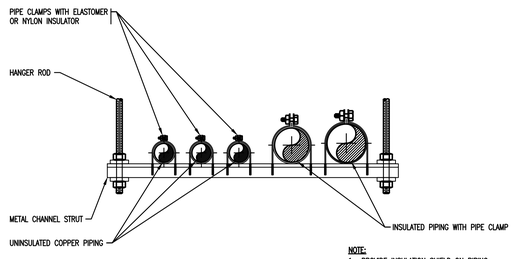


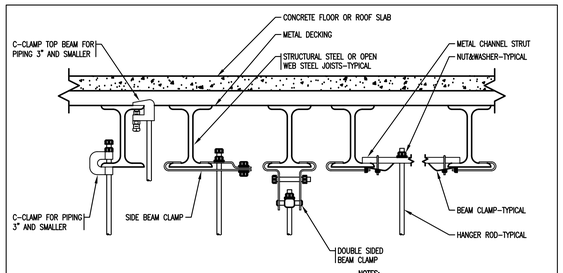
NOTE:
1. SEE SPECIFICATION FOR HANGER ROD SIZE AND SPACING FOR PLUMBING AND FIRE PROTECTION.

P 001 PIPE HANGER INSTALLATION DETAIL
SCALE: NONE



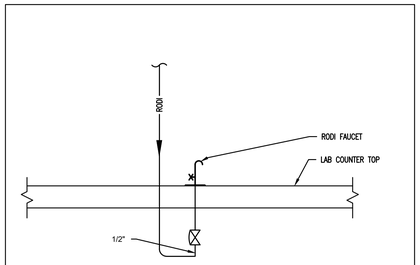
NOTE:
1. PROVIDE INSULATION SHIELD ON PIPING THREE INCHES OR LARGER.

P 002 TRAPEZE PIPE HANGER DETAIL
SCALE: NONE

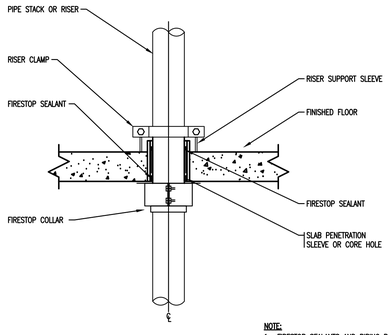


NOTES:
1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE.
2. PROVIDE MINIMUM OF ⅜" DIAMETER HANGER ROD FOR CEILING SUSPENDED EQUIPMENT (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).

P 003 TYPICAL METHODS OF SECURING HANGER RODS TO STRUCTURAL STEEL DETAIL
SCALE: NONE

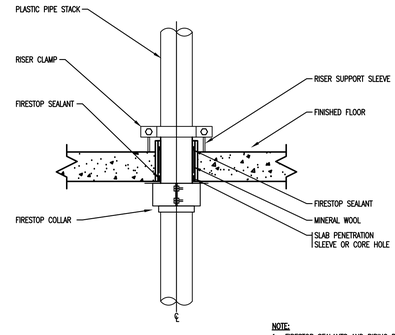


P 004 RODI CONNECTION AT LABORATORY SINKS DETAIL
SCALE: NONE



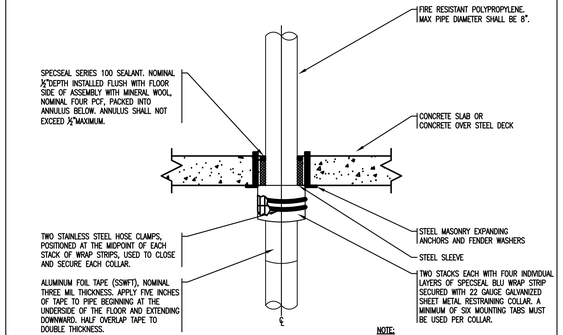
NOTE:
1. FIRESTOP SEALANTS AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UL FIRE RESISTANCE DIRECTORY.

P 005 TYPICAL PIPE SLAB PENETRATION AND RISER SUPPORT SLEEVE DETAIL
SCALE: NONE



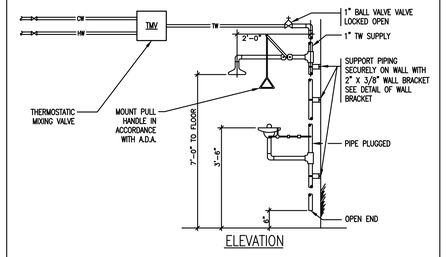
NOTE:
1. FIRESTOP SEALANTS AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UL FIRE RESISTANCE DIRECTORY.

P 006 TYPICAL PLASTIC PIPE SLAB PENETRATION AND RISER SUPPORT SLEEVE DETAIL
SCALE: NONE



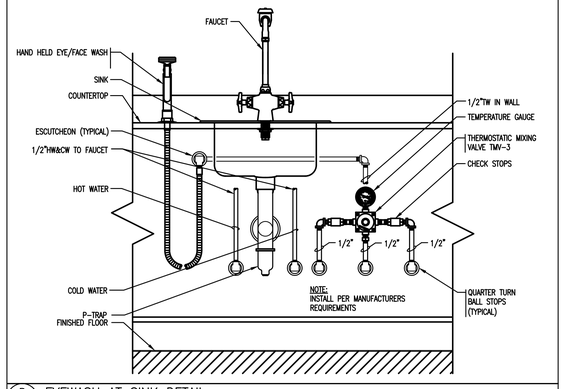
NOTE:
1. –

P 007 TYPICAL POLYPROPYLENE PIPING SLAB PENETRATION INSTALLATION DETAIL
SCALE: NONE



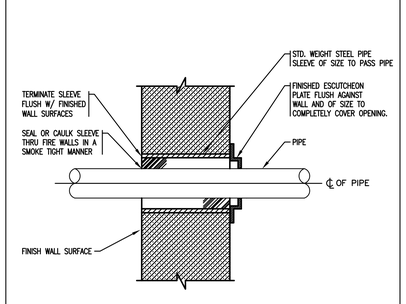
ELEVATION

P 008 EMERGENCY SHOWER AND EYEWASH STATION DETAIL
SCALE: NONE

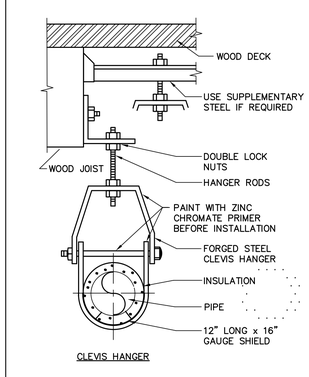


NOTE:
INSTALL PER MANUFACTURERS REQUIREMENTS

P 009 EYEWASH AT SINK DETAIL
SCALE: NONE



P 010 INTERIOR WALLS DETAIL OF WATERTIGHT SLEEVE
SCALE: NONE

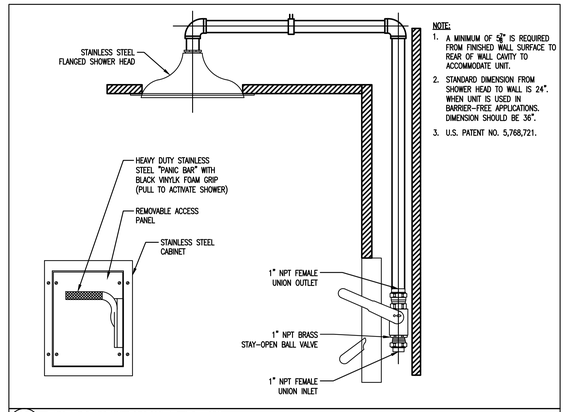


CLEVIS HANGER

WITH INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS
UP TO 3"	6"	18
4" TO 6"	8"	16
8" & LARGER	12"	16

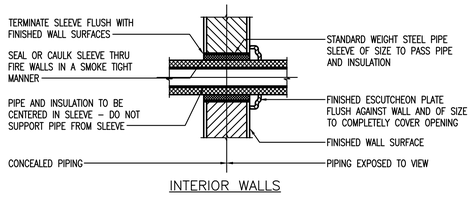
WITHOUT INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS
UP TO 3"	12"	18
UP TO 4"	15"	16
UP TO 5"	18"	16
UP TO 6"	21"	16

P 011 PIPE SUPPORT DETAIL
SCALE: NONE



NOTE:
1. A MINIMUM OF 52" IS REQUIRED FROM FINISHED WALL SURFACE TO REAR OF WALL CAVITY TO ACCOMMODATE UNIT.
2. STANDARD DIMENSION FROM SHOWER HEAD TO WALL IS 24". WHEN UNIT IS USED IN BARRIER-FREE APPLICATIONS. DIMENSION SHOULD BE 36".
3. U.S. PATENT NO. 5,768,721.

P 012 EMERGENCY SHOWER DETAIL
SCALE: NONE



INTERIOR WALLS

P 013 PIPES PASSING THROUGH FIRE RATED WALLS DETAIL
SCALE: NONE

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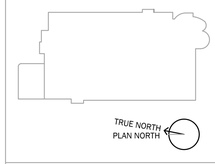
STATE OF NEW YORK
RODI HENRY DIAZ
095939

KEY PLAN



BID DOCUMENTS

REVISIONS

ISSUE

PLUMBING DETAILS

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