### **HVAC DEMOLITION NOTES:**

- 1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT AREAS TO BE DEMOLISHED.
- 2. REMOVE ALL EQUIPMENT, DUCTWORK AND PIPING AS INDICATED ON PLAN. REMOVALS SHALL INCLUDE ALL SUPPORTS AND HANGERS, HOUSEKEEPING PADS, DAMPERS, VALVES, FITTINGS, CONTROLS AND ASSOCIATED LOW VOLTAGE WIRING. AND ANY OTHER ASSOCIATED ACCESSORIES WHICH PERTAIN TO THE EQUIPMENT TO BE REMOVED.
- 3. REMOVAL OF ALL POWER CONNECTIONS TO DEMOLITION ITEMS SHALL BE BY THE E.C.
- 4. ANY DISCREPANCIES BETWEEN THE DEMOLITION PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER. ANY DEMOLITION WORK WHICH MAY BE QUESTIONABLE DUE TO UNFORESEEN FIELD CONDITIONS SHALL NOT BE REMOVED UNTIL REVIEWED BY THE ARCHITECT, ENGINEER OR BUILDING FACILITIES MANAGER.
- 5. DEMOLITION WORK SHALL INCLUDE THE PREPARATION OF EXISTING EQUIPMENT FOR CONNECTION TO NEW EQUIPMENT. COORDINATE DEMOLITION WORK WITH THE CONSTRUCTION PLANS.
- 6. ALL EQUIPMENT REMOVALS SHALL BECOME THE PROPERTY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF DEMOLITION ITEMS OFF-SITE, UNLESS OTHERWISE NOTED.
- 7. ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 8. IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
- 9. THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

### **HVAC LINE TYPES** -/-/-/- or ----- EXISTING EQUIPMENT/DUCT TO BE REMOVED EXISTING EQUIPMENT/DUCT TO REMAIN

——CHVS———— CHILLED WATER SUPPLY 

NEW EQUIPMENT / DUCT

DUAL TEMP. WATER RETURN DUAL TEMP. WATER SUPPLY ——— HEAT PUMP WATER RETURN

— HEAT PUMP WATER SUPPLY ---- HIGH TEMP HOT WATER RETURN HIGH TEMP HOT WATER SUPPLY

LP GAS SUPPLY LOW PRESSURE CONDENSATE RETURN

LOW PRESSURE STEAM SUPPLY LOW TEMPERATURE HOT WATER RETURN LOW TEMPERATURE HOT WATER SUPPLY

--- MAKEUP WATER MEDIUM PRESSURE CONDENSATE MEDIUM PRESSURE STEAM

REFRIGERANT DISCHARGE REFRIGERANT LIQUID

REFRIGERANT SUCTION

### **GENERAL NOTES:**

- 1. THE DRAWINGS ON THESE PLANS ARE DIAGRAMMATIC. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL HVAC WORK WITH OTHER TRADES AND THE BUILDING STRUCTURE. NO EXTRA PAYMENTS WILL BE AUTHORIZED FOR REROUTING OR REMOVAL OF INSTALLED WORK DUE TO LACK OF COORDINATION WITH OTHER SYSTEMS.
- 2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF HIS WORK
- 3. ACCESS PANELS SHALL BE PROVIDED IN CEILINGS, WALLS, FLOORS, ETC., AS REQUIRED TO MAINTAIN ACCESSIBILITY TO VALVES, DAMPERS, TRAPS, COILS, ETC.
- 4. PROVIDE DUCT ACCESS DOORS AT ALL MOTORIZED DAMPERS, FIRE DAMPERS, AND SMOKE DAMPERS.
- 5. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
- 6. ALL DUCTWORK PASSING THROUGH A FIRE RATED PARTITION SHALL BE PROVIDED WITH A FIRE DAMPER TO MAINTAIN THE FIRE RATING OF THE PARTITION.
- 7. LOCATIONS OF DIFFUSERS AND GRILLES ARE APPROXIMATE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS.
- 8. ALL BRANCHES AND TAKE-OFFS SHALL BE EQUIPPED WITH VOLUME CONTROL DAMPERS. DAMPERS TO BE OPPOSED BLADE TYPE, 4" MAX. BLADE HEIGHT. VOLUME DAMPERS TO BE LOCATED AS NEAR TO THE POINT OF TAKE-OFF AS PRACTICAL.
- 9. FLEXIBLE DUCT CONNECTIONS SHALL BE LIMITED TO A MAXIMUM LENGTH OF FIVE (5) FEET AND SUPPORTED AT MID-POINT.
- 10. ALL SUPPLY & RETURN AIR DUCTWORK SHALL BE INSULATED.
- 11. PROVIDE SHUT-OFF VALVES AT ALL PIPING BRANCH TAKE-OFFS AND AT ALL CONNECTIONS TO EQUIPMENT.
- 12. PROVIDE DRAINS WITH HOSE ADAPTERS AND CAPS ON PIPING AT ALL LOW POINTS. PROVIDE MANUAL VENTS ON PIPING AT ALL HIGH POINTS.
- 13. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR.
- 14. ALL MOTOR STARTERS SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 15. ALL REQUIRED CONTROL EQUIPMENT AND WIRING SHALL BE FURNISHED & INSTALLED BY THE HVAC CONTRACTOR.
- 16. THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- 17. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAIL SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM.
- 18. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT; DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
- 19. IT IS THE INTENTION THAT THESE SPECIFICATIONS, AND DRAWINGS ACCOMPANYING SAME, SHALL PROVIDE FOR THE FURNISHING AND INSTALLING OF THE () SYSTEMS COMPLETE AS SPECIFIED AND SHOWN. ANY WORK SHOWN ON THE DRAWINGS AND NOT PARTICULARLY DESCRIBED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY WORK CHANGES WHICH MAY BE EVIDENTLY NECESSARY TO COMPLETE THE INSTALLATION SHALL BE FURNISHED BY THIS CONTRACTOR.
- 20. IT IS THE INTENT AND PURPOSE OF THESE SPECIFICATIONS AND DRAWINGS TO INCLUDE AND PROVIDE FOR ALL MATERIALS, APPLIANCES AND LABOR TO PROPERLY COMPLETE AND LEAVE IN PERFECT WORKING CONDITION THE ENTIRE SYSTEM HEREINAFTER SPECIFIED. ANY MATERIAL, LABOR OR APPLIANCE NOT SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION MUST BE FURNISHED BY THIS CONTRACTOR.
- 21. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE ALTERATIONS AND/OR NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.

### **DUCTWORK SYMBOLS**

DUCTWORK DOUBLE LINE REPRESENTATION: "A" INDICATES DUCT WIDTH; "B" INDICATES DUCT DEPTH. DUCTWORK SINGLE LINE REPRESENTATION: "A" INDICATES DUCT WIDTH; "B" INDICATES DUCT DEPTH. SUPPLY AIR DUCT UP SUPPLY AIR DUCT DOWN RETURN AIR DUCT UP RETURN AIR DUCT DOWN EXHAUST AIR DUCT UP EXHAUST AIR DUCT DOWN FLEXIBLE DUCTWORK SUPPLY AIR FLOW RETURN/EXHAUST AIR FLOW VOLUME DAMPER

### MOTORIZED DAMPER w/ ACCESS DOOR FIRE DAMPER W/ ACCESS DOOR SUPPLY AIR TERMINAL RETURN/EXHAUST AIR TERMINAL

EXHAUST AIR TERMINAL

DROP DUCT —D— —R— RISE DUCT

### → DIRECTION OF FLOW ANCHOR --- PIPE GUIDE

ECCENTRIC REDUCER TOP CONNECTION, 45° OR 90° BOTTOM CONNECTION, 45° OR 90°

PIPING SYMBOLS

SIDE CONNECTION CAPPED OUTLET PIPE DOWN TURN — UNION

### **AHU REFURBISHMENT NOTES:**

1. THE CONTRACTOR SHALL REFURBISH THE EXISTING ROOFTOP HEAT PUMP UNIT. REFURBISHMENT SHALL CONSIST OF THE FOLLOWING:

DIRECTION OF PIPE PITCH (DOWN)

- A. REPLACE ALL FILTERS. B. VACUUM AND STEAM CLEAN THE HEATING COIL AND COOLING
- C. STRAIGHTEN ("COMB-OUT ") THE FINS ON THE HEATING COIL AND THE COOLING COIL.
- D. CLEAN THE CONDENSATE DRIP PAN AND THE CONDENSATE DRAIN. PRIME FILL THE CONDENSATE DRAIN P-TRAP.
- E. CLEAN AND LUBRICATE ALL DAMPERS, INCLUDING LINKAGES AND BEARINGS.
- F. REPLACE ALL FAN BELTS. G. CLEAN AND LUBRICATE ALL FAN/MOTOR ASSEMBLIES (SUPPLY

SECURELY FASTENED.

- FAN, RETURN FAN, POWER EXHAUST FAN).
- H. BALANCE ALL FANS TO PROVIDE AIR FLOWS AS SHOWN ON
- I. CLEAN THE STEAM HUMIDIFIER MANIFOLD AND VERIFY THAT ALL DISPERSION PORTS ARE CLEAR.
- J. SECURE THE FREEZE-STAT TO THE COOLING COIL. VERIFY THAT ALL CONNECTIONS TO THE TEMPERATURE CONTROL SYSTEM
- K. CHECK ALL AUTOMATIC DAMPERS AND VALVES FOR CORRECT OPERATION, AND ADJUST COMPONENTS WHERE NECESSARY.
- CHECK ALL CONTROL WIRING CONNECTIONS. REFASTEN ANY LOOSE CONNECTIONS AND REPLACE ANY DAMAGED WIRE.
- M. VERIFY CORRECT OPERATION OF ALL EXISTING UNIT CONTROLLERS (PRIMARY UNIT CONTROLLER, ECONOMIZER, ETC.).
- 2. THE CONTRACTOR SHALL ADVISE THE ENGINEER AND OWNER OF ANY COMPONENTS THAT ARE DAMAGED AND REQUIRE REPLACEMENT.

### **VALVE SYMBOLS**

QUICK-COUPLE HOSE CONNECTOR

GATE VALVE - THREADED/FLANGED OR 🕹 GATE VALVE WITH 3/4" HOSE ADAPTER OR — DECI — GLOBE VALVE — THREADED/FLANGED CHECK VALVE WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION) STRAINER WITH VALVED DRAIN AND

FLEXIBLE CONNECTION ANGLE GLOBE VALVE BUTTERFLY VALVE OR OR BALL VALVE CONTROL VALVE (CV) - FLOAT-OPERATED

OR HOOR MODULATING CONTROL VALVE MODULATING CONTROL BUTTERFLY VALVE

TWO POSITION CONTROL VALVE THREE-WAY MODULATING CONTROL VALVE OR OR

THREE-WAY TWO POSITION CONTROL VALVE OR PRESSURE REGULATING VALVE PRESSURE REDUCING VALVE (PRV)

TEMPERATURE & PRESSURE RELIEF VALVE OR SAFETY OR PRESSURE RELIEF VALVE

AUTOMATIC BALANCING CONTROL VALVE WATER BALANCE DEVICE WATER FLOW MEASURING DEVICE

CIRCUIT SETTER VALVE GATE VALVE WITH GLOBE-VALVED BYPASS

OR | OR - OR - OR TRIPLE DUTY VALVE WATER LEVEL CONTROLLER

> CR OR FLOW METER COMBINATION BALANCING AND  $\parallel$  or  $-\nabla$ SHUT-OFF VALVE

MANUAL AIR VENT TEST PLUG (PRESSURE/TEMPERATURE) □ OR — Ū—

PLUG VALVE LUBRICATED PLUG VALVE

### **GENERAL SYMBOLS**

POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK

POINT OF DISCONNECT - INDICATES SECTION LETTER — INDICATES DRAWING NUMBER WHERE LOCATED

- INDICATES TYPE OF AIR OUTLET — INDICATES AIR FLOW REQUIREMENTS

ADJUSTABLE ANGLE THERMOMETER  $\Box$ DIAL THERMOMETER PRESSURE GAUGE WITH NEEDLE VALVE WALL MOUNT THERMOSTAT

'A' DESIGNATES COMPONENT SERVED TEMPERATURE SENSOR

DUCT SMOKE DETECTOR FAN SWITCH WITH PILOT LIGHT

DOOR UNDERCUT (BY G.C.) LOUVERED DOOR (BY G.C.)

### **ABBREVIATIONS**

AC AIR CONDITIONING UNIT ACT ACOUSTIC CELLING THE H.C. ACCU AIR COOLED CONDENSING UNIT AD ACCESS DOOR AF AFTER FILTER H.P. HP HORSEPOWER HP HORSEPOWER AFF AFTER FILTER H.P. HP HORSEPOWER AFF H.P. HP HORSEPOWER AFF H.P. HP HORSEPOWER AFF H.P. HORSEPOWER AFF H.P. HP HORSEPOWER AFF H.P. HORSEPOWER AFF H.P. HP HORSEPOWER AFF H.P		- 13 B 1 1 2 1		_
ACCU ACQUISTIC CEILING TILE ACCU AIR COOLED CONDENSING UNIT AD ACCESS DOOR AF AFTER FILTER AF AFTER FILTER AFF ABOVE FINISHED FLOOR AFM AIR FLOW MEASURING DEVICE APH AIR FLOW MEASURING DEVICE APH ALD. ALORANIA COLUVER DAMPER (PNEUMATIC) AP ACCESS PANEL BDD BACK DRAFT DAMPER (PNEUMATIC) AP ACCESS PANEL BDD BOTTOM GRILLE (WALL TYPE) BG CEILING GRITCH BG BOTTOM THAT (WALL TYPE) BG DO DEW POINT TEMPERATURE, 'F BO DUT SMOKE DETECTOR BG DO FEET OF WATER SOLUTION BC A EXHAUST AIR BG DECIPELS BG DO BOTTOM THE FERTING (WALL TYPE) BG DO DEW POINT TEMPERATURE, 'F BO DO THAT WALL TYPE) BG DO DEW POINT TEMPERATURE, 'F BG DO DEW POINT T	AC	AIR CONDITIONING UNIT	GPM	GALLONS PER MINUTE
ACCU AIR COOLED CONDENSING UNIT AD ACCESS DOOR AF AFTER FILTER HP HORSEPOWER AFF ABOVE FINISHED FLOOR AFM AIR FLOW MEASURING DEVICE APM AIR FLOW MEASURING DEVICE APM AIR HANDLING UNIT ALD. AUTOMATIC LOUVER DAMPER (PNEUMATIC) AP ACCESS PANL BOD BACK DRAFT DAMPER BG BOTTOM GRILLE (WALL TYPE) BR BOTTOM RELIE (WALL TYPE) CC COLING COIL CC CEILING BRITEST CC COLONATER CC C COLONATER COLOTION CC C COLONATER COLOTION CC C COLONATER COLOTION CC C C COLONATOR COLOTION CC C C COLOTION TANK CC C C C COLOTION TANK CC C C COLOTION TANK CC C C C COLOTION TANK CC C C C COLOTION TANK CC C C C C COLOTION TANK CC C C C C C COLOTION TANK CC C C C C C COLOTION TANK CC C C C C C C C C C C C C C C C C C C				
AD ACCESS DOOR  AF AFTER FILTER  AFF ABOVE FINISHED FLOOR  AFM AIR FLOW MEASURING DEVCE  AHU AIR HANDLING UNIT  ALD. ALTOMATIC LOVER DAMPER (PNEUMATIC)  AP ACCESS PANEL  BDD BACK DRAFT CAMPER  BG BOTTOM GRILLE (WALL TYPE)  BG BOTTOM GRILLE (WALL TYPE)  BR BOTTOM FILTER (WALL TYPE)  BR BOTTOM FILTRE (WALL TYPE)  BR HOOTOM FILTRE (WALL				
AFF AFTER FILTER AFF ABOVE FINSHED FLOOR AFM AIR FLOW MEASURING DEVICE AFM AIR FLOW MEASURING DEVICE APH AIR FLOW MEASURING DEVICE ALLD. ALTOMATIC LOUVER DAMPER (PNEUMATIC) ALD. ALTOMATIC LOUVER DAMPER (PNEUMATIC) BDD BACK DRAFT DAMPER BC BOTTOM GRILLE (WALL TYPE) BC BOTTOM GRILLE (WALL TYPE) BTUH BRITISH THERMAL LOUTS/HOUR CC COOLING COL CD CEILING DIFFUSER BT BOTTOM REGISTER (WALL TYPE) BTUH BRITISH THERMAL LOUTS/HOUR CC COOLING COL CD CEILING DIFFUSER BT MB MINING BOX CFM CUBIC FEET PER MINITE CG CEILING GRILLE MR MCHANICAL EQUIPMENT ROOM MAN MAXIMUM CC CLICLING BETTER CO CLICLING BEGISTER CW COLD WATER CW COLD WATER D DRAN DB DRY BULB TEMPERATURE, "F D DRAN DD DRY BULB TEMPERATURE, "F DD DEW POINT TEMPERATURE, "F DP DEW POINT TEMPERATURE, "F DRY PRESSURE REDUCING VALVE DPS SQUARE IN. ARACLE AND				
AFF ABOVE FINISHED FLOOR AFM AIR FLOW MEASURING DEVCE AHU AIR HANDLING UNIT ALLD. ALTOMATIC LOUVER DAMPER (PNEUMATIC) ALD. ALTOMATIC LOUVER DAMPER (PNEUMATIC) AP ACCESS PANEL BDD BACK DRAFT DAMPER (PNEUMATIC) AP ACCESS PANEL BBD BOTTOM REGISTER (WALL TYPE) BR BOTTOM REGISTER CO COLING COIL CO CEILING ON MAX MAXIMUM CO CEILING FEET PER MINUTE CO CEILING MAX. MAXIMUM CO CIENNATE PUMP CO CONDENSATE PUMP CO COLUMATER CO CIENT CONTROL ON THE PUMP CO COLUMATER				
APM AIR FLOW MEASURING DEVICE ALD. AIT MANDIAG UNIT ALD. ALTOMATIC LOUVER DAMPER (PNEUMATIC) AP ACCESS FANEL BDD BACK DRAFT DAMPER BG BOTTOM GRILLE (WALL TYPE) BR BOTTOM REGISTER (WALL TYPE) BR BOTTOM REGISTER (WALL TYPE) BTUH BRITISH THERMAL UNITS/HOUR CC COOLING COL. CD CELLING DIFFUSER MB MONING BOX CFM CUBIC FEET PER MINUTE CG CELLING GRILLE CG CELLING REGISTER CW COLO WATER CFW COLO WATER CW COLO WATER CD DANN DD DAY BULB TEMPERATURE, "F DD DANN DP DIFFERENTIAL PRESSURE DD DEWN DP FEETENTIAL PRESSURE DD DEWN DP DIFFERENTIAL PRESSURE DD DEWN DP DIFFERENTIAL PRESSURE DD DEWN DP FEETENTIAL PRESSURE DD DEWN DP DEW FORT TEMPERATURE, "F DD DEWN DP FEETENTIAL PRESSURE DP DEW POINT TEMPERATURE, "F DS DUCT SMOKE DETECTOR DX DIRECT EXPANSION RAY RETURN AR RETURN FAN EACT CHIMMING DRIP CITEMP EFFE ENHERN GONTROL CENTER EFF ENHERN GONTROL CENTER ENH GONTROL CONTRACTOR ENH GONTROL CONTRACTOR ENH MARKET FEET AND GONTROL ENH CONTRACTOR				
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AP ACCESS PANEL BDD BACK DRAFT DAMPER BG BOTTOM RGILLE (WALL TYPE) BR BOTTOM REGISTER (WALL TYPE) BR MINE DAMPER DOUR PRESSURE STEAM BOTTOM REGISTER (WALL TYPE) BR MINE DAMPER DOUR PRESSURE STEAM BOTTOM REGISTER (WALL TYPE) BM MINE DAMPER CC COOLING COIL CELLING GRILLE CG CEILING REGISTER CO CLEAN OUT CP CONDENSATE PUMP CC COLING REGISTER CO COLING REGISTER COLING REGISTER CO COLING REGISTER CO COLING REGISTER COLING REGIST				
BDD BACK DRAFT DAMPER BC BOTTOM REGISTER (WALL TYPE) BR BOTTOM REGISTER (WALL TYPE) BTUH BRITISH THERMAL UNITS/HOUR CC COOLING COIL MA MIKED AIR CC COOLING COIL MA MIKED AIR CC COOLING COIL CG CEILING DIFFUSER CG CEILING GRILLE CG CEILING MAX. MAXIMUM CO CLEAN OUT CP CONDENSATE PUMP MIN. MINIMUM CR CEILING REGISTER CW COLD WATER CW CR CW		· · · · · · · · · · · · · · · · · · ·		
BG BOTTOM GRILLE (WALL TYPE) BR BOTTOM REGISTER (WALL TYPE) BR BOTTOM REGISTER (WALL TYPE) BTUH BRITISH THERMAL UNITS/HOUR CC COOLING COIL CD CEILING DIFFUSER MB MIXING BOX CFM CUBIC FEET PER MINUTE MD MOTORIZZED DAMPER CG CEILING COIL CG CEILING CO CLEAN OUT MBH ONE THOUSAND BTUH CC COOLING THE MER MECHANICAL COUNTENT ROOM MAX. MAXIMUM CO CLEAN OUT MBH ONE THOUSAND BTUH CC COOLING REGISTER CH CABINET UNIT HEATER CH CABINET UNIT HEATER CH CABINET UNIT HEATER CH COLIN WATER DD DRAIN DD DRAIN DD DRAIN DD DRY BULB TEMPERATURE, 'F DD DEFERENTIAL PRESSURE DD DEW POINT TEMPERATURE, 'F DRAIN DX DIRECT EXPANSION RA RETURN AR EAT ENTERING ART TEMP EAT ENTERING ART TEMP EAT ENTERING ART TEMP ECC. ELECTRICAL CONTRACTOR DE EXHAUST AIR EAT ENTERING ART TEMP ECC. ELECTRICAL CONTRACTOR EFF EXHAUST FAN EGW ETHYLENE GLYCOL-WATER SOLUTION EMD END OF MAIN DRIP (STEAM) SH STEAM HUMIDITY EMC ECC ENGINEERING CONTROL CENTER ERC ENERGY EFFICIENCY RATIO EFF EXHAUST FAN EGW ETHYLENE GLYCOL-WATER SOLUTION EMD END OF MAIN DRIP (STEAM) SH STEAM HUMIDITY ECC ENGINEERING CONTROL CENTER ERC ENERGY EFFICIENCY RATIO EFF EXHAUST FAN EGW ETHYLENE GLYCOL-WATER SOLUTION EMD END OF MAIN DRIP (STEAM) SH STEAM HUMIDITY ECC ENGINEERING CONTROL CENTER ERC ENERGY EFFICIENCY RATIO EFF EXHAUST FAN EGW ETHYLENE GLYCOL-WATER SOLUTION EMD END OF MAIN DRIP (STEAM) SH STEAM HUMIDITY ETHYLENE GLYCOL-WATER SOLUTION EMD END OF MAIN DRIP (STEAM) SH STEAM HUMIDITY ETHYLENE GLYCOL-WATER SOLUTION EFF EXHAUST FAN EVALUATION ETHYLENE GLYCOL-WATER SOLUTION EFF EXHAUST FAN EVALUATION THE EXTER EXISTIC PRESSURE SENSOR STAINLESS STEEL TOP ORGANIZATION ETHYLENE GLYCOL-WATER SOLUTION ETHYLENE G	AP			
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CFM CUBIC FEET PER MINUTE CG CEILING GRILLE MER MECHANICAL EQUIPMENT ROOM MAX. MAX. MAX. MAX. MAX. MAX. MAX. MAX	CC	COOLING COIL	MA	MIXED AIR
CG CELING GRILLE CLG CELING CO CLEAN OUT CP CONDENSATE PUMP CR CELING REGISTER NOM. MIN. MINIMUM MIN. MINIMUM MONE THOUSAND BTUH MIN. MINIMUM MONIMAL CUH CABINET UNIT HEATER CUH CABINET UNIT HEATER D DRAIN DB DEVISIDE AIR DF P PUMP DF PRE-SILER GENTRACTOR DB DEVISIDE SURE DP PRE-SILER GLYCOL-WATER SOLUTION DP DIFFERENTIAL PRESSURE DP DEW POINT TEMPERATURE, 'F PRV PRESSURE REDUCING VALVE DS DUCT SMOKE DETECTOR DX DIRECT EXPANSION RA RETURN AIR EAT ENTERING AIR TEMP E.C. ELECTRICAL CONTRACTOR ECC ENGINEERING CONTROL CENTER EF EXHAUST FAN EGW ETHYLENE GLYCOL-WATER SOLUTION DF DOF MAIN DRIP (STEAM) SD SMOKE DAMPER ET EXPENSION TANK EF ELECTRIC VAIT HEATER SD SMOKE DAMPER ET EXPENSION TANK EF ELECTRIC CHITCH ECC ENGINEERING CONTROL CENTER EF EXHEGY EFFICIENCY RATIO EF EXHAUST FAN EGW ETHYLENE GLYCOL-WATER SOLUTION END END OF MAIN DRIP (STEAM) SP STATIC PRESSURE ZONE ETH ELECTRIC VAIT HEATER ET EXPENSION TANK END END OF MAIN DRIP (STEAM) SP STATIC PRESSURE SENSOR ETH ELECTRIC VAIT HEATER ET EXPANSION TANK EUH ELECTRIC VAIT HEATER ET EXPANSION TANK EUH ELECTRIC VAIT HEATER ET EXPANSION TANK ET ELECTRIC VAIT HEATER ET EXPENSION TANK SPS STATIC PRESSURE ET EXPENSION TANK EUH ELECTRIC VAIT HEATER ET EXPENSION TANK SPS STATIC PRESSURE ET EXPENSION TANK SPS STATIC PRESSURE ETH ELECTRIC VAIT HEATER EXIST EXISTING FA.I. FRESH AIR INTAKE TO PRECISITER (WALL TYPE) FC FLEXIBLE CONNECTION FUND UNIT HEATER EXIST EXISTING FO FIRE DAMPER FLE FLOOR FOR THE PROTECTION CONTRACTOR FO FIRE DAMPER FLE FLOOR FOR THE PROTECTION CONTRACTOR FO FIRE PROTECTION CONTRACTOR	CD	CEILING DIFFUSER	МВ	MIXING BOX
CG CELING GRILLE CLG CELING CO CLEAN OUT CP CONDENSATE PUMP CR CELING REGISTER NOM. MIN. MINIMUM MIN. MINIMUM MONE THOUSAND BTUH MIN. MINIMUM MONIMAL CUH CABINET UNIT HEATER CUH CABINET UNIT HEATER D DRAIN DB DEVISIDE AIR DF P PUMP DF PRE-SILER GENTRACTOR DB DEVISIDE SURE DP PRE-SILER GLYCOL-WATER SOLUTION DP DIFFERENTIAL PRESSURE DP DEW POINT TEMPERATURE, 'F PRV PRESSURE REDUCING VALVE DS DUCT SMOKE DETECTOR DX DIRECT EXPANSION RA RETURN AIR EAT ENTERING AIR TEMP E.C. ELECTRICAL CONTRACTOR ECC ENGINEERING CONTROL CENTER EF EXHAUST FAN EGW ETHYLENE GLYCOL-WATER SOLUTION DF DOF MAIN DRIP (STEAM) SD SMOKE DAMPER ET EXPENSION TANK EF ELECTRIC VAIT HEATER SD SMOKE DAMPER ET EXPENSION TANK EF ELECTRIC CHITCH ECC ENGINEERING CONTROL CENTER EF EXHEGY EFFICIENCY RATIO EF EXHAUST FAN EGW ETHYLENE GLYCOL-WATER SOLUTION END END OF MAIN DRIP (STEAM) SP STATIC PRESSURE ZONE ETH ELECTRIC VAIT HEATER ET EXPENSION TANK END END OF MAIN DRIP (STEAM) SP STATIC PRESSURE SENSOR ETH ELECTRIC VAIT HEATER ET EXPANSION TANK EUH ELECTRIC VAIT HEATER ET EXPANSION TANK EUH ELECTRIC VAIT HEATER ET EXPANSION TANK ET ELECTRIC VAIT HEATER ET EXPENSION TANK SPS STATIC PRESSURE ET EXPENSION TANK EUH ELECTRIC VAIT HEATER ET EXPENSION TANK SPS STATIC PRESSURE ET EXPENSION TANK SPS STATIC PRESSURE ETH ELECTRIC VAIT HEATER EXIST EXISTING FA.I. FRESH AIR INTAKE TO PRECISITER (WALL TYPE) FC FLEXIBLE CONNECTION FUND UNIT HEATER EXIST EXISTING FO FIRE DAMPER FLE FLOOR FOR THE PROTECTION CONTRACTOR FO FIRE DAMPER FLE FLOOR FOR THE PROTECTION CONTRACTOR FO FIRE PROTECTION CONTRACTOR	CFM	CUBIC FEET PER MINUTE	MD	MOTORIZED DAMPER
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D DRAIN Db DRY BULB TEMPERATURE, 'F BB DECIBELS DN DOWN DP DIFFERENTIAL PRESSURE DN DOWN DP DIFFERENTIAL PRESSURE DP DEW POINT TEMPERATURE, 'F DS DUCT SMOKE DETECTOR DX DIRECT EXPANSION EA EXHAUST AIR EAT ENTERING AIR TEMP ECC ENGINEERING CONTROL CENTER ECC ENGINEERING CONTROL CENTER EGW ETHYLENE GLYCOL—WATER SOLUTION EF EXHAUST FAN EGW ETHYLENE GLYCOL—WATER SOLUTION END END OF MAIN DRIP (STEAM) ERC ENERGY RECOVERY COIL ERCP ENERGY RECOVERY COIL ET EXPANSION TANK EY END END OF MAIN TANK EY END ELECTRIC UNIT HEATER EXIST EXISTING ET EXPANSION TANK EUH ELECTRIC UNIT HEATER EXIST EXISTING ET EXPANSION TANK EUH ELECTRIC UNIT HEATER EXIST EXISTING FO FIRE DAMPER FO G.C. GENERAL CONTRACTOR FO WATER ADDITION FIRE DAMPER FO				
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dB         DECIBELS         PF         PRE-FILTER           DN         DOWN         PGW         PROPYLENE GLYCOL—WATER SOLUTION           DP         DIFFERENTIAL PRESSURE         PH         PREHEAT           Dp         DEW POINT TEMPERATURE, 'F         PRV         PRESSURE REDUCING VALVE           DS         DUCT SMOKE DETECTOR         PSI         POUNDS PER SQUARE IN.           DX         DIRECT EXPANSION         RA         RETURN AIR           EA         EXHAUST AIR         RF         RETURN AIR           EAT         ENTERING AIR TEMP         RH         RELATIVE HUMIDITY           EC.         ELECTRICAL CONTRACTOR         Rh         RELATIVE HUMIDITY           ECC         ENGINEERING CONTROL CENTER         RPZ         REDUCED PRESSURE ZONE           EER         ENERGY EFFICIENCY RATIO         SA         SUPPLY AIR           EF         EYHAUST FAN         SD         SMOKE DAMPER           EGW         ETHYLENE GLYCOL—WATER SOLUTION         Sp. Gr.         SPECIFIC GRAVITY           EMD         END OF MAIN DRIP (STEAM)         Sh         STEAM HUMIDIFIER           ERC         ENERGY RECOVERY COIL         Sp         STATIC PRESSURE           ERP         ELECTRIC RADIANT CEILING PANEL         S				
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ERC ENERGY RECOVERY COIL  ERP ELECTRIC RADIANT CEILING PANEL  ET EXPANSION TANK  EUH ELECTRIC UNIT HEATER  EXIST EXISTING  F.A.I. FRESH AIR INTAKE  FC FLEXIBLE CONNECTION  FOU FAN COIL UNIT  FCU FAN COIL UNIT  FLR FLOOR  F.O.R. FUEL OIL RETURN  F.O.S. FUEL OIL SUPPLY  FPC FIRE PROTECTION CONTRACTOR  FYSD COMBINATION FIRE/SMOKE DAMPER  FTR FIN TUBE RADIATION  VIF VERIFY IN FIELD  G NATURAL GAS PIPE  G.C. GENERAL CONTRACTOR  SP STATIC PRESSURE  SPD SPLITTER DAMPER  SPS STATIC PRESSURE  SPD SPLITTER DAMPER  SPD SPLITTER DAMPER  SPD STATIC PRESSURE  SPD SPLITTER DAMPER  SPD SPLITTER DAMPER  SPD SPLITTER DAMPER  SPD STATIC PRESSURE  SPD SPLITER DAMPER  SPD SPLITER DAMPER  SPD STATIC PRESSURE  SPD SPLITER DAMPER  SPD STATIC PRESSURE  SPD SPLITER DAMPER  SPD STATIC PESSURE  SPA STICE  TO PRESSURE  SPD STATIC PESSURE  SPD STATIC PESSURE  SPE STATI	EGW	ETHYLENE GLYCOL-WATER SOLUTION	Sp. Gr.	SPECIFIC GRAVITY
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ET EXPANSION TANK  EUH ELECTRIC UNIT HEATER  EXIST EXISTING  F.A.I. FRESH AIR INTAKE  FC FLEXIBLE CONNECTION  FOU FAN COIL UNIT  FU FIRE DAMPER  FLOR  F.O.R. FUEL OIL RETURN  F.O.S. FUEL OIL SUPPLY  FPC FIRE PROTECTION CONTRACTOR  F/SD COMBINATION FIRE/SMOKE DAMPER  FTR FIN TUBE RADIATION  G NATURAL GAS PIPE  EXPANSION TANK  SPS STATIC PRESSURE SENSOR  S.S. STAINLESS STEEL  TOP GRILLE (WALL TYPE)  TR TOP REGISTER (WALL TYPE)  THU UNIT HEATER  U.N.O. UNLESS NOTED OTHERWISE  UV UNIT VENTILATOR  V VALVE  VO VALVE  VO VOLUME DAMPER  VI VIBRATION ISOLATOR  VIF VERIFY IN FIELD  WE WET BULB TEMPERATURE, *F  G.C. GENERAL CONTRACTOR  WFM WATER FLOW MEASURING DEVICE	ERC	ENERGY RECOVERY COIL	SP	STATIC PRESSURE
EUH ELECTRIC UNIT HEATER EXIST EXISTING F.A.I. FRESH AIR INTAKE FC FLEXIBLE CONNECTION FCU FAN COIL UNIT FD FIRE DAMPER FLR FLOOR F.O.R. FUEL OIL RETURN F.O.S. FUEL OIL SUPPLY FC FIRE PROTECTION CONTRACTOR F/SD COMBINATION FIRE/SMOKE DAMPER FTR FIN TUBE RADIATION FTR FIN TUBE RADIATION G NATURAL GAS PIPE EXIST EXISTING TG TOP GRILLE (WALL TYPE) TR TOP REGISTER (WALL TYPE) TR VUIL THRU WALL UNIT UNIT HEATER TOP REGISTER (WALL TYPE) TR VUIL THRU WALL UNIT THRU WALL UNIT UNIT HEATER TOP REGISTER (WALL TYPE) TR TOP GRILLE (WALL TYPE) TR TOP REGISTER (WALL TYPE) TR VUIL THRU WALL UNIT UNIT HEATER TOP REGISTER (WALL TYPE) TR TOP REGISTER (WALL TYPE) TR TOP GRILLE (WALL TYPE) TR TOP REGISTER (WALL TYPE) TR TOP REGISTER TOP REGISTER TOP GRILLE (WALL TYPE) TR TOP GRILLE (WALL TYPE) TR TOP REGISTER TOP REGISTER TOP GRILLE (WALL TYPE) TR TOP REGISTER TOP GRILLE (WALL TYPE) TOP GRILLE (WALL TYPE) TR TOP REGISTER TOP GRILLE (WALL TYPE) TOP GRICLE (WALL TYPE) TR TOP REGISTER TOP GRILLE (WALL TYPE) TOP GRICLE	ERP	ELECTRIC RADIANT CEILING PANEL	SPD	SPLITTER DAMPER
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F.A.I. FRESH AIR INTAKE  FC FLEXIBLE CONNECTION  FCU FAN COIL UNIT  FD FIRE DAMPER  FLR FLOOR  F.O.R. FUEL OIL RETURN  FPC FIRE PROTECTION CONTRACTOR  F/SD COMBINATION FIRE/SMOKE DAMPER  FTR FIN TUBE RADIATION  G NATURAL GAS PIPE  G.C. GENERAL CONTRACTOR  TWU THRU WALL UNIT  THRU WALL TYPE)  TWU  THRU WALL TYPE)  THRU WALL TYPE)  TWU  THRU WALL TYPE)  TWU  THRU WALL TYPE)  THRU WALL TYPE)  THRU WALL TYPE)  THRU WALL TYPE)  THRU WALL UNIT  THE DESTRUCTOR  THE STATEMENT OF THE STATEMENT O	EUH	ELECTRIC UNIT HEATER	S.S.	STAINLESS STEEL
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F.O.R. FUEL OIL RETURN  F.O.S. FUEL OIL SUPPLY  FOUR FIRE PROTECTION CONTRACTOR  F/SD COMBINATION FIRE/SMOKE DAMPER  FTR FIN TUBE RADIATION  G NATURAL GAS PIPE  G.C. GENERAL CONTRACTOR  VD VOLUME DAMPER  VE VOLUME EXTRACTOR  VI VIBRATION ISOLATOR  VIF VERIFY IN FIELD  WE WET BULB TEMPERATURE, *F  WHY WATER FLOW MEASURING DEVICE				
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G.C. GENERAL CONTRACTOR WFM WATER FLOW MEASURING DEVICE				
GH GRAVITY HOOD I WMS WIRE MESH SCREEN				
	i GH	GRAVIT HOOD	ı WMS	WIKE MESH SURFEN

			<u>AIR O</u>	UTLET S	CHED	<u>ULE</u>			
DESIGNATION AND SYMBOL	CFM RANGE	NECK SIZE ROUND OR SQUARE	FACE SIZE	APPLICATION	MANUF. & MODEL NO.	ACCESSORIES	FRAME TYPE	MAX S.P.	FINISH
⊠ CD-1	50-98 100-200 201-385 390-600 601-750	6" 8" 10" 12" 14"	24x24 24x24 24x24 24x24 24x24	SUPPLY AIR CEILING DIFFUSER	TITUS OMNI-NA	OPPOSED BLADE DAMPER	BORDER TYPE-3	0.040	#25 OFF-WHITE
<b>≥</b> ER-1 <b>↓</b> RR-1 <b>→</b> BR-1	50-90 100-170 175-275 280-420 450-800 850-1800 ABOVE	6x6 8x8 10x10 12x12 24x12 24x24 SEE PLANS		RETURN/ EXHAUST AIR CEILING REGISTER	TITUS 4 FL	AG-35AA OPPOSED BLADE DAMPER	TYPE-3A	0.100	ALUM.
□ <sub>TG/CG</sub>	AS INDICATED	AS INDICATED		RETURN AIR CEILING GRILLE	TITUS 4 FL	NO DAMPERS	TYPE-3A	0.050	ALUM.

**ENERGY CODE STATEMENT:** 

**UNIFORM CODE STATEMENT:** 

COMPLIANCE WITH THE 2020 ENERGY CODE.

COMPLIANCE WITH THE 2020 UNIFORM CODE.

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF

AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN

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# ARCHITEC

Montefiore

MONTEFIORE HEALTH SYSTEM

NYACK CAMPUS

HIGHLAND MEDICAL

NEW CITY, NY 10956

**KEY PLAN: NOT TO SCALE** 

NYACK. NY 10960

FIRST FLOOR

FIRST FLOOR

350 S MAIN ST

160 NORTH MIDLAND AVENUE

PRIMARY HEALTH CLINICS

Pomarico Design Studio Architecture, PLLC Michael A. Pomarico, Architect 19 Front Street Newburgh, NY 12550 33 Irving Place, 3rd Floor

New York License No.: 019680 Telephone: 845.561.0448 Facsimile: 845.561.0446 pds@HealthCareDesign.com www.healthcaredesign.com

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New York, NY 10004

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murray-engineering.com

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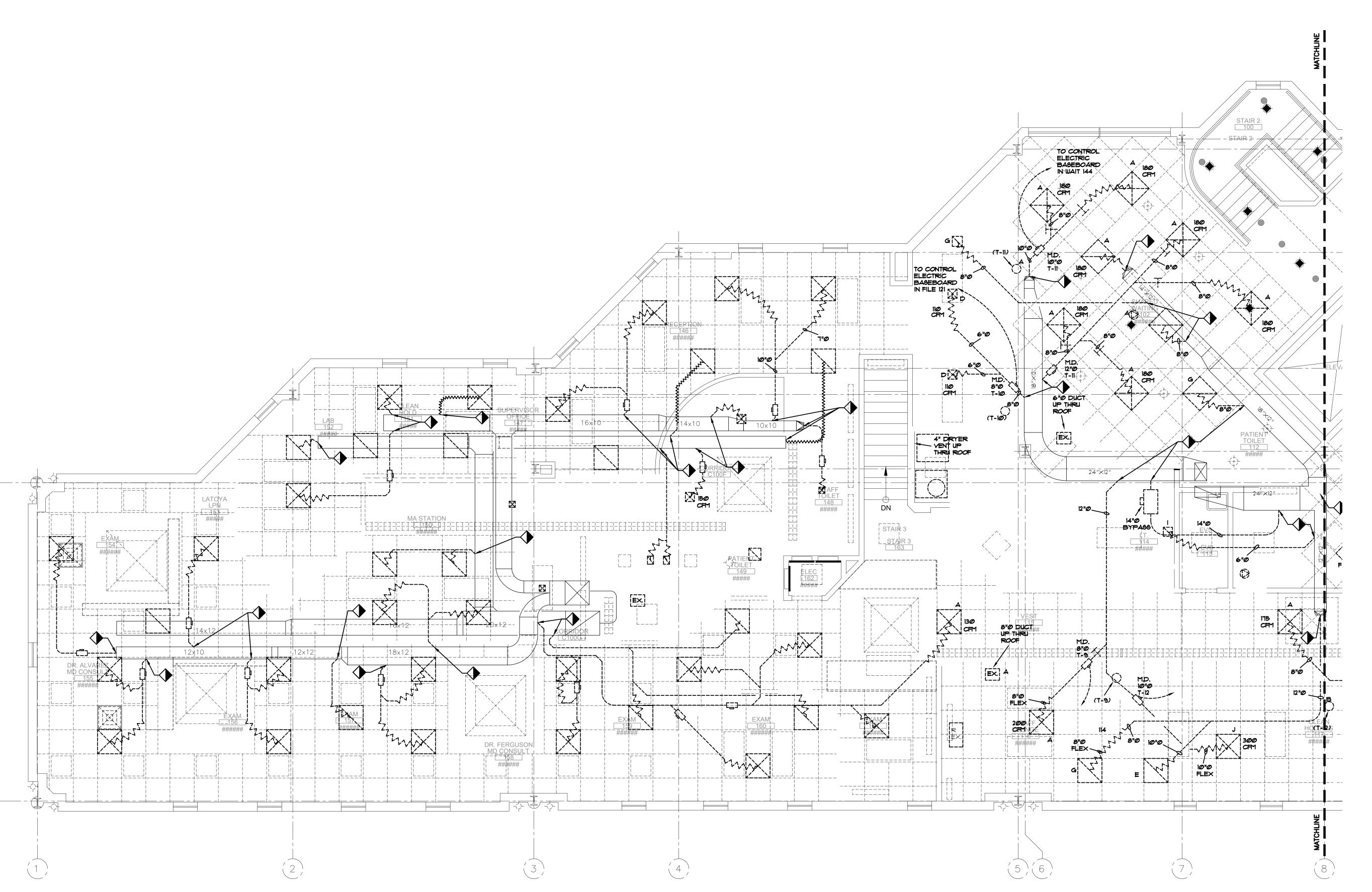
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### DRAWING TITLE: HVAC: SYMBOLS, **ABBREVIATIONS &**

PROJECT NUMBER DATE SCALE 3/21/2022 AS NOTED DRAWING NUMBER



1 HVAC: DUCTWORK DEMOLITION FLOOR PLAN - SECOND FLOOR SCALE: 1/4"=1'-0"

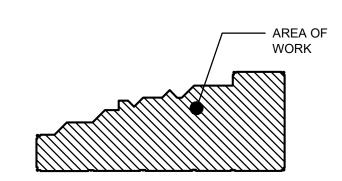
### Montefiore

MONTEFIORE HEALTH SYSTEM NYACK CAMPUS

160 NORTH MIDLAND AVENUE NYACK, NY 10960

HIGHLAND MEDICAL PRIMARY HEALTH CLINICS FIRST FLOOR 350 S MAIN ST NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE FIRST FLOOR







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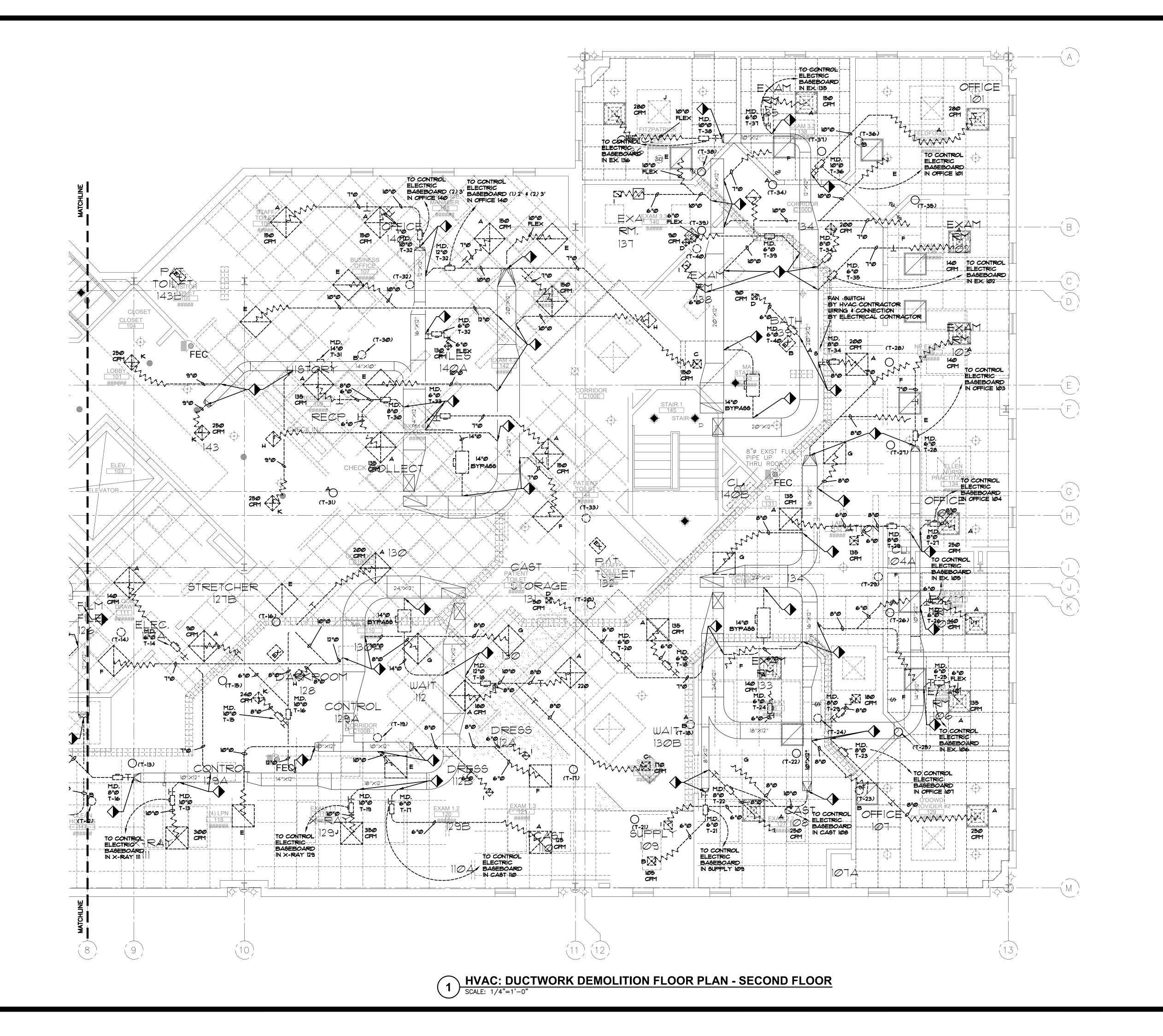
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### DRAWING TITLE:

**HVAC: DUCTWORK** DEMOLITION FLOOR PLAN - SECOND FLOOR

PROJECT NUMBER 21019

3/21/2022

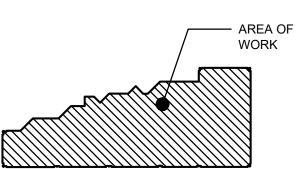


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KEY PLAN: NOT TO SCALE FIRST FLOOR





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### DRAWING TITLE: H\/\D\C\D\I\C\T\\\

HVAC: DUCTWORK
DEMOLITION FLOOR
PLAN - SECOND FLOOR

### PROJECT NUMBER 21019

DRAWING NUMBER

DATE 3/21/2022

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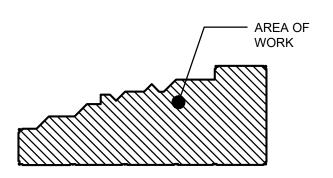


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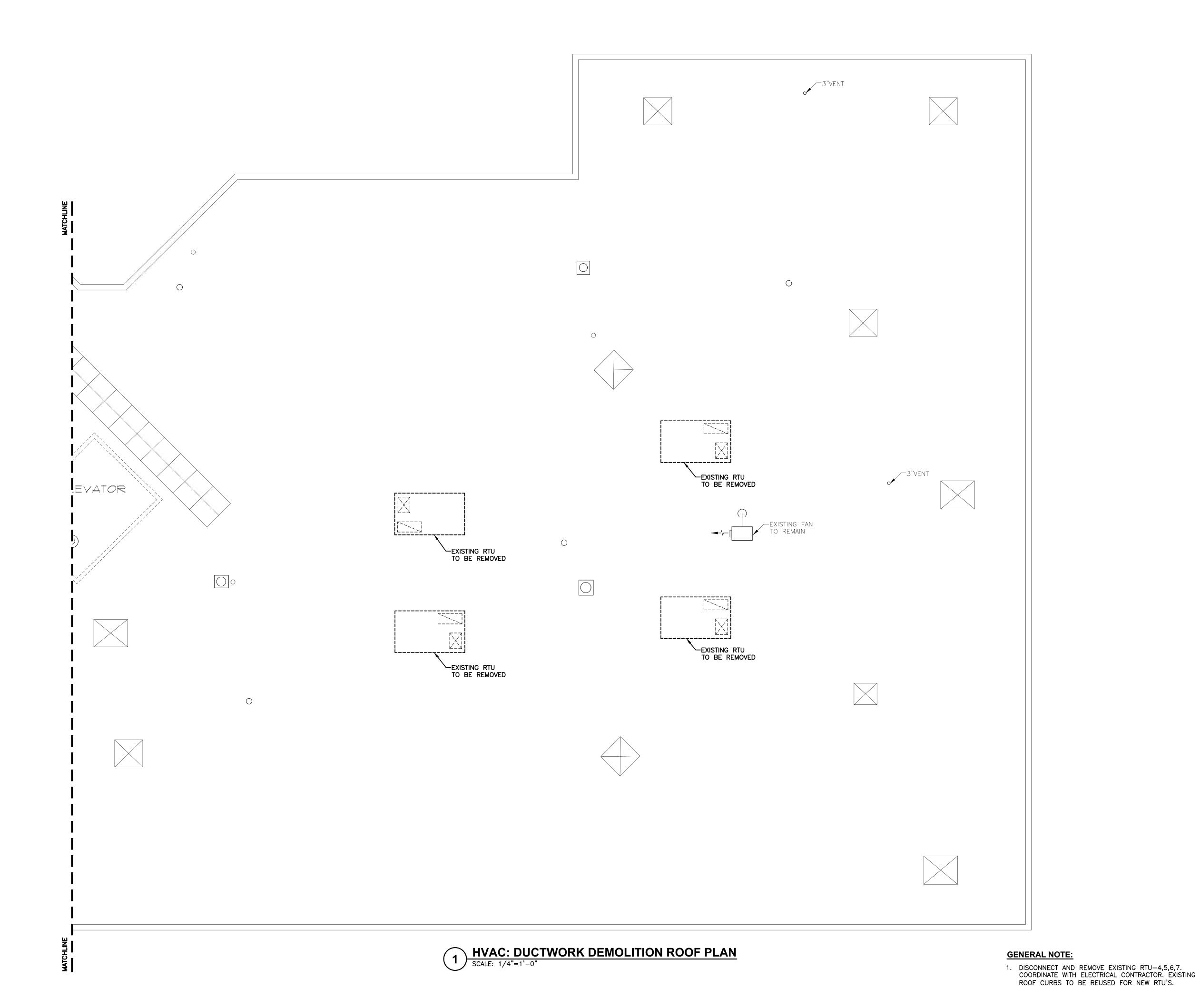
DRAWING TITLE: **HVAC: DUCTWORK** DEMOLITION

**ROOF PLAN** 

21019

PROJECT NUMBER

AS NOTED 3/21/2022

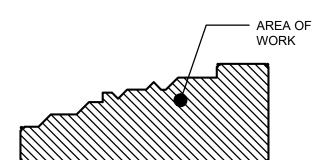


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DRAWING TITLE: **HVAC: DUCTWORK** DEMOLITION **ROOF PLAN** 

PROJECT NUM
21019
DATE

3/21/2022 DRAWING NUMBER

### **NEW CONSTRUCTION KEYED NOTES:**

- EXISTING DUCTWORK SHOWN MAY NOT REFLECT ACTUAL DUCT ROUTING. CONTRACTOR TO VERIFY EXACT EXISTING DUCT LOCATION.
- PROVIDE THERMOSTATS FOR CONTROL EXISTING ELECTRIC BASEBOARD HEATERS AS SHOWN. THERMOSTAT WIRING BY ELECTRICAL CONTRACTOR.

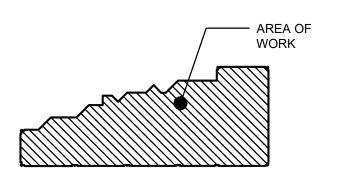
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murray-engineering.com

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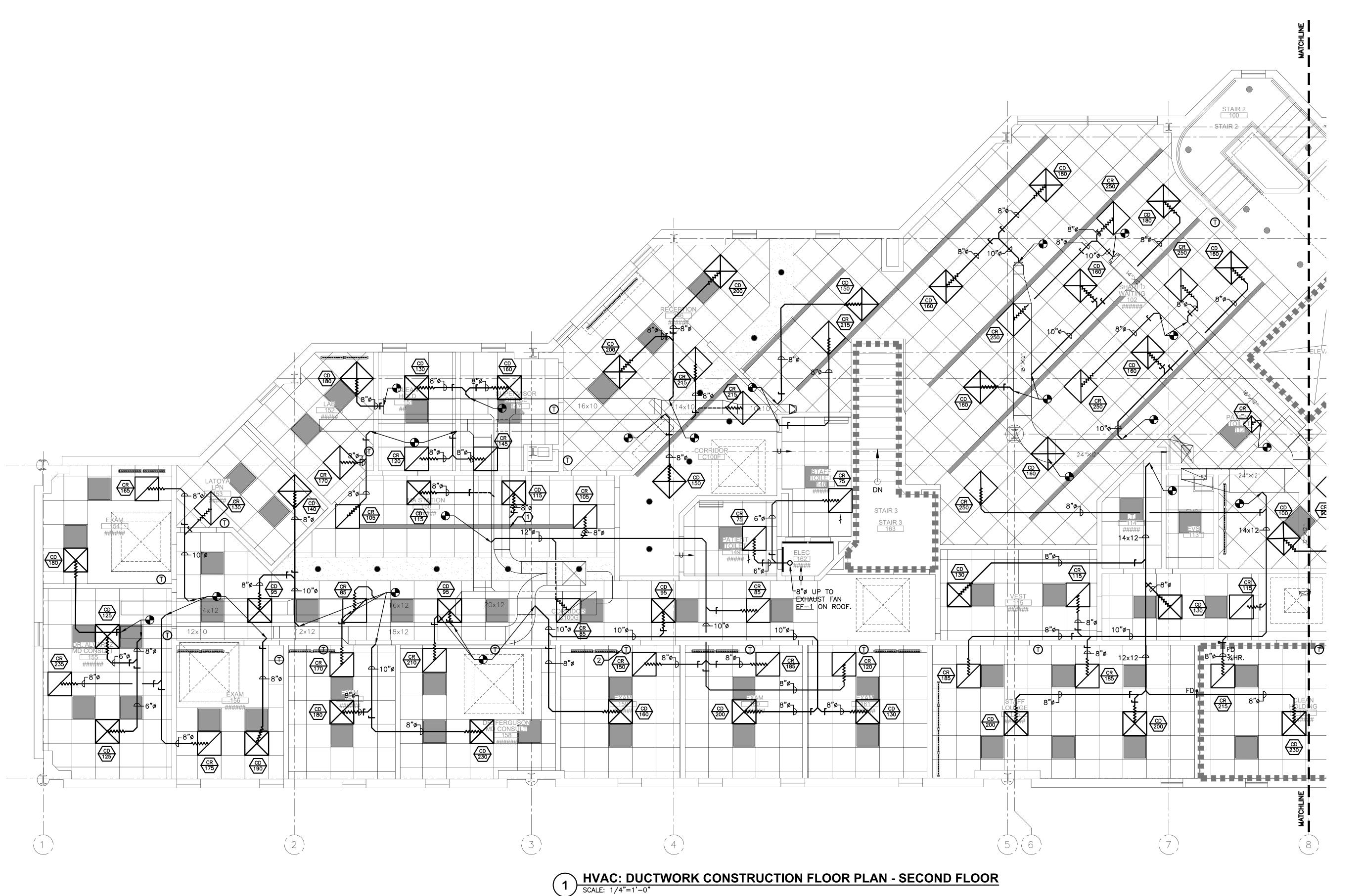
BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC

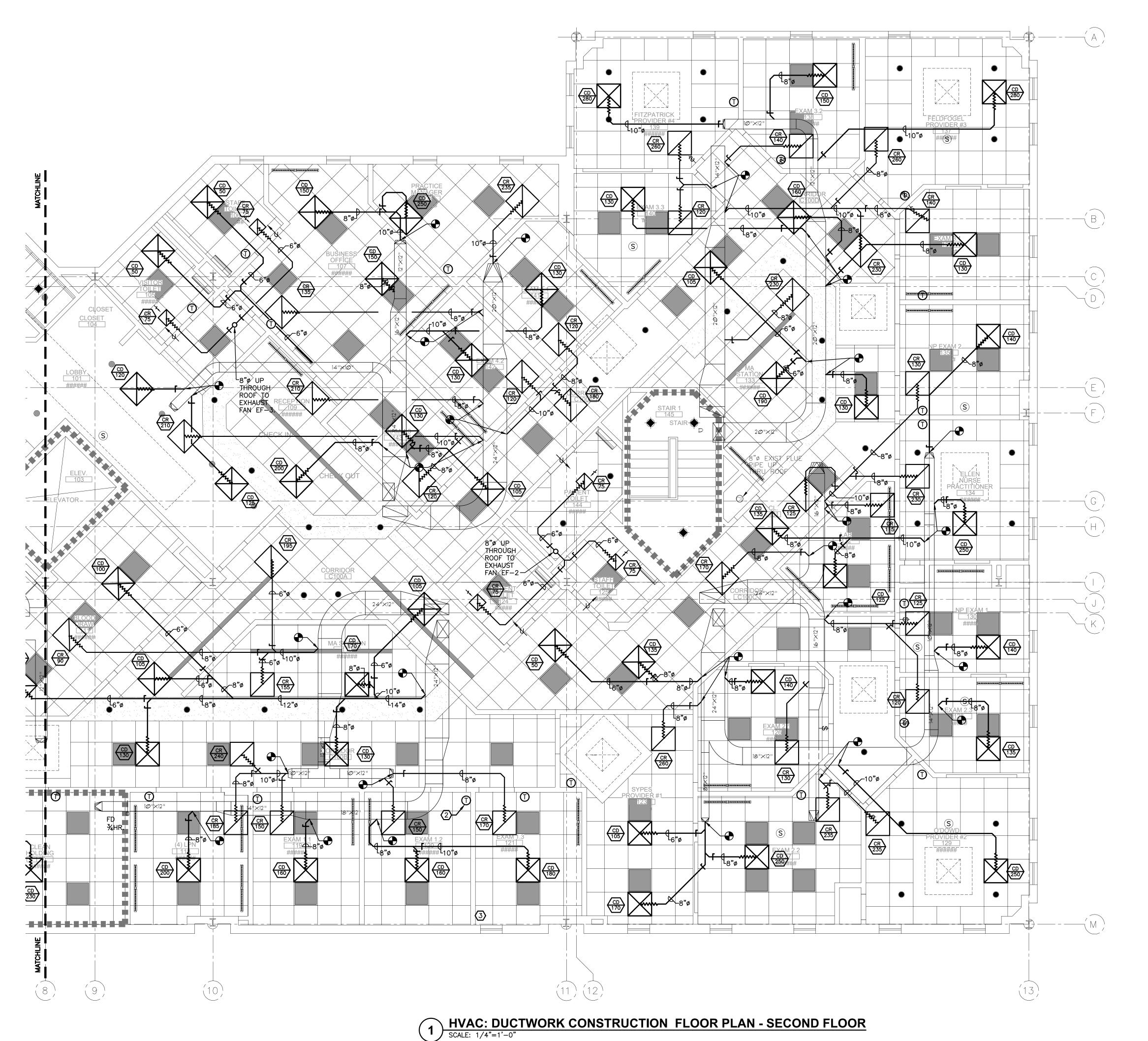
DESCRIPTION OF THE ALTERATION. DRAWING TITLE: **HVAC: DUCTWORK** CONSTRUCTION FLOOR

PLAN - SECOND FLOOR

PROJECT NUMBER 21019

AS NOTED 3/21/2022





### **NEW CONSTRUCTION KEYED NOTES:**

- EXISTING DUCTWORK SHOWN MAY NOT REFLECT ACTUAL DUCT ROUTING. CONTRACTOR TO VERIFY EXACT EXISTING DUCT LOCATION.
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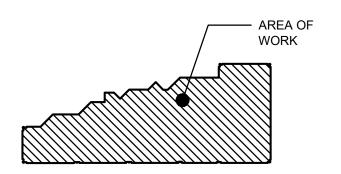
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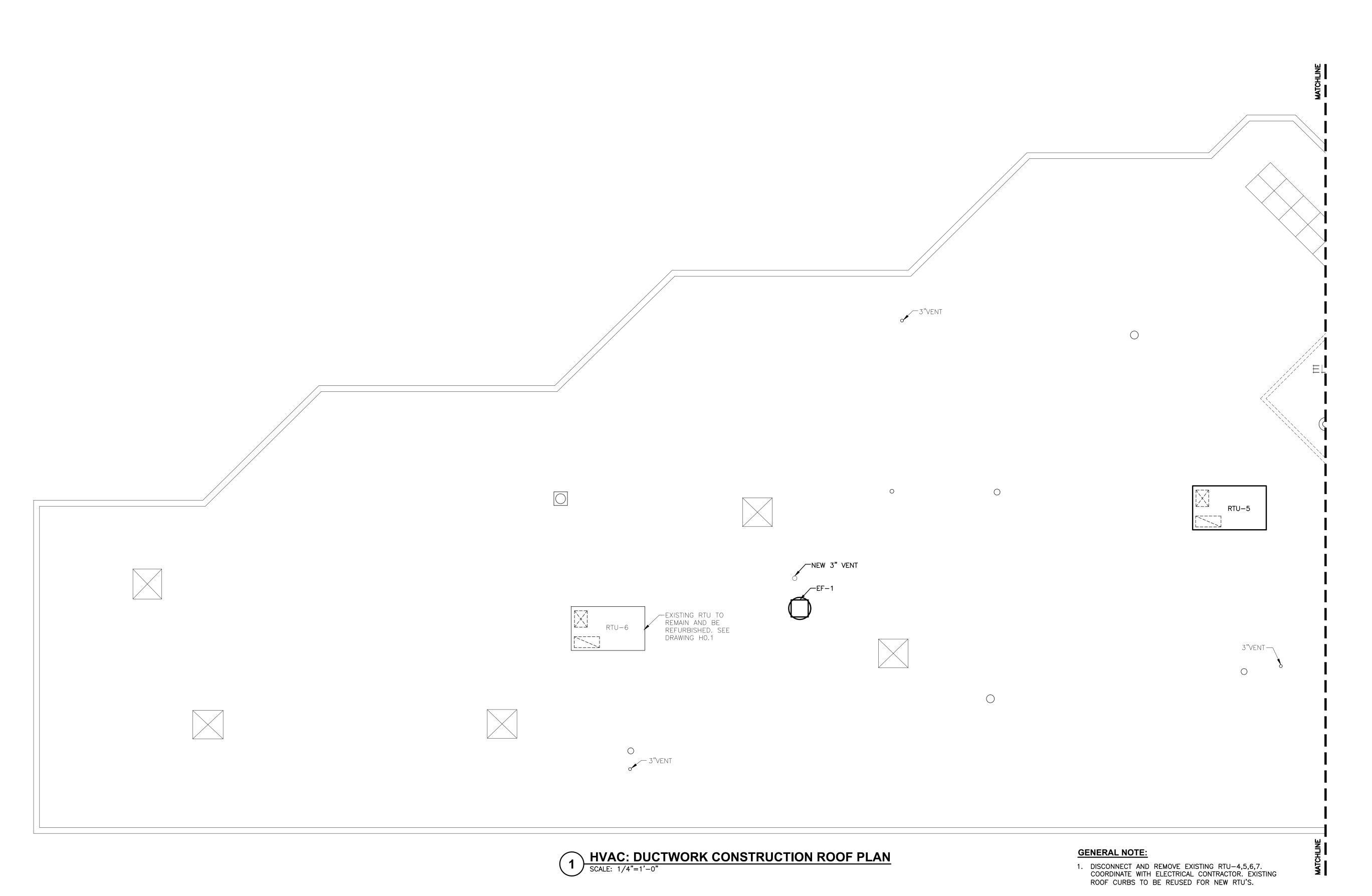
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PROJECT NUMBER 21019

3/21/2022

AS NOTED

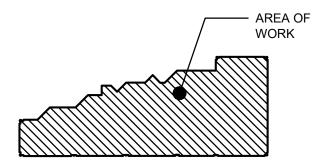


MONTEFIORE HEALTH SYSTEM NYACK CAMPUS

160 NORTH MIDLAND AVENUE NYACK, NY 10960

HIGHLAND MEDICAL PRIMARY HEALTH CLINICS FIRST FLOOR 350 S MAIN ST NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE FIRST FLOOR







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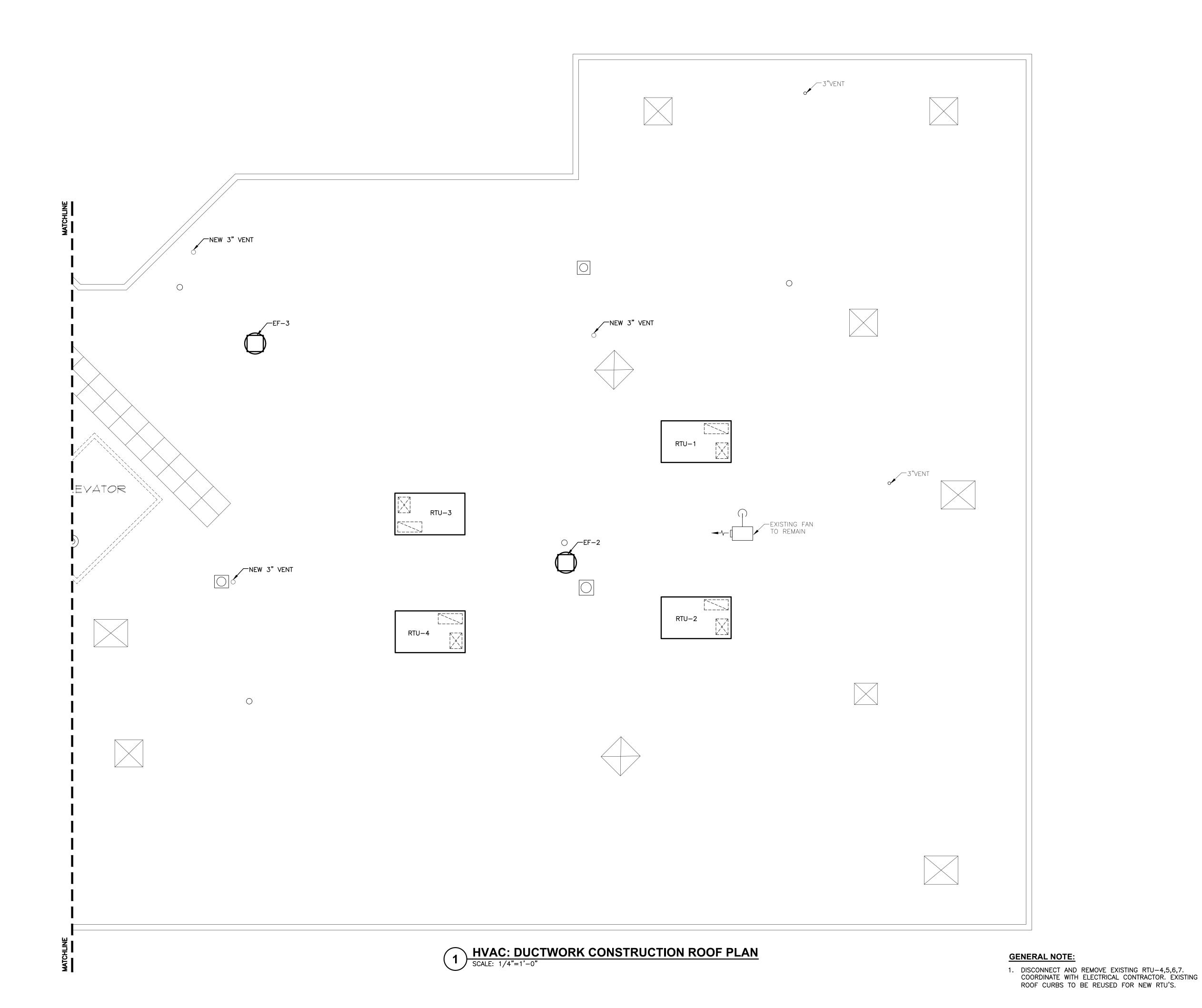
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> DRAWING TITLE: **HVAC: DUCTWORK** CONSTRUCTION

**ROOF PLAN** PROJECT NUMBER

21019 3/21/2022

SCALE AS NOTED

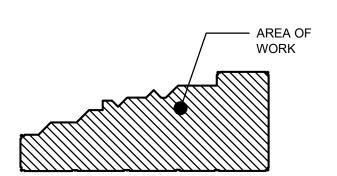


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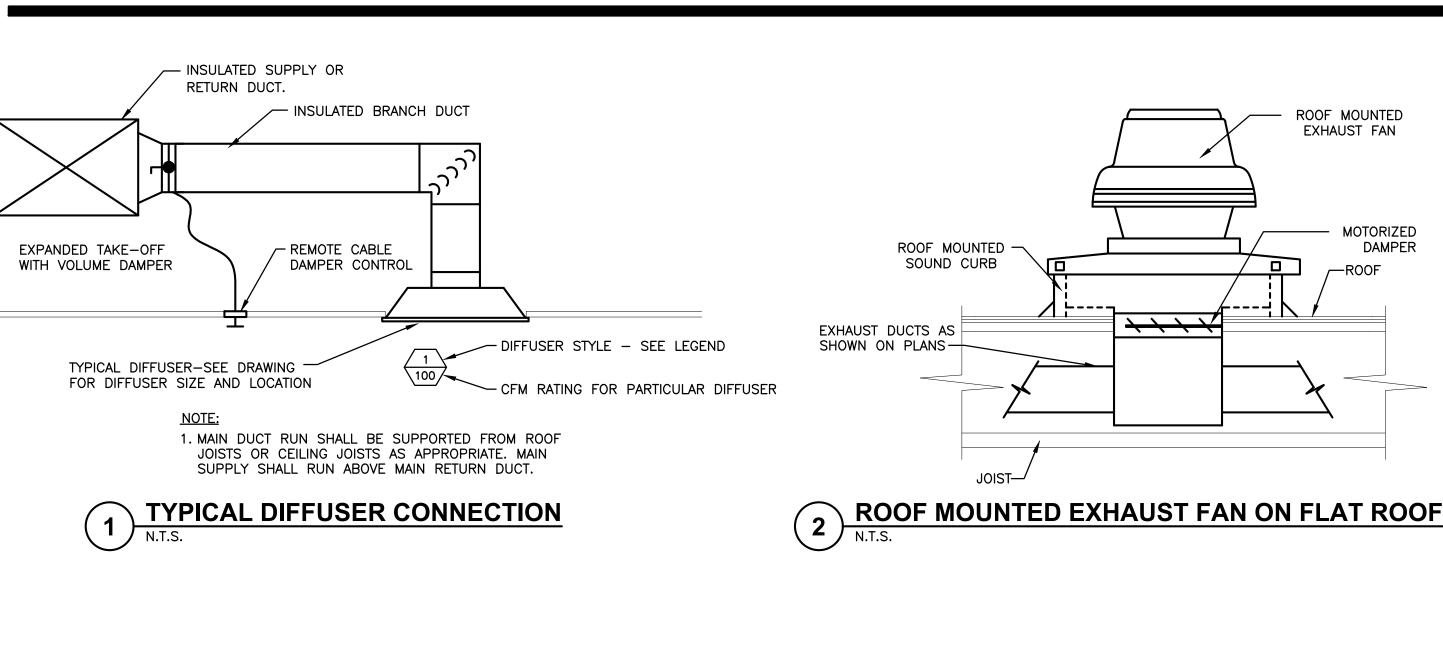
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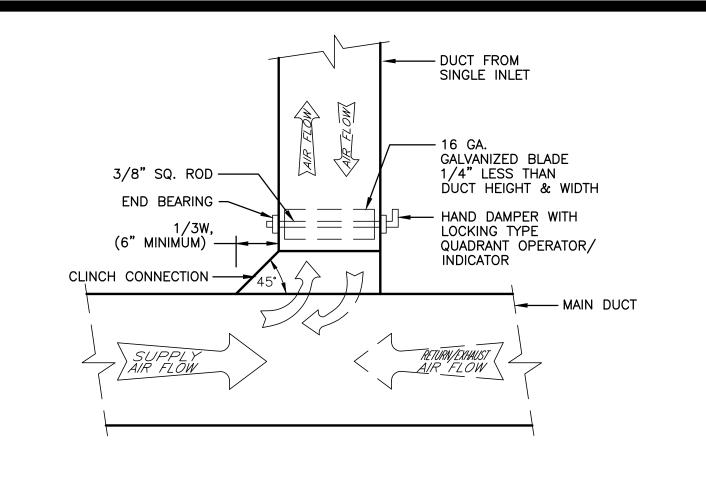
DRAWING TITLE: **HVAC: DUCTWORK** CONSTRUCTION **ROOF PLAN** 

PROJECT NUM
21019

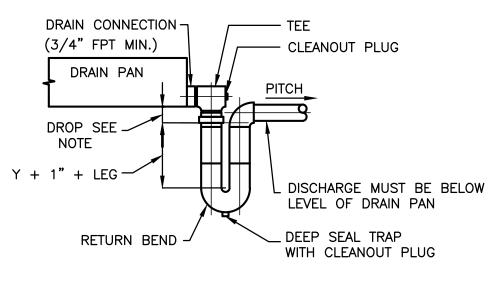
3/21/2022 DRAWING NUMBER SCALE AS NOTED



ROOFTOP CURB DETAIL FOR ERV

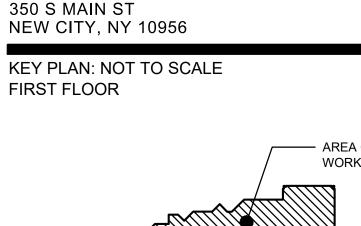


TYPICAL SUPPLY/RETURN (EXHAUST) DUCT TAP



Y = DISCHARGE PRESSURE OF PAN

- 1. 1" MIN. DROP REQUIRED, USE STANDARD FITTINGS. 2. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP 3. PITCH DRAIN FOR PROPER RUN-OFF 4. MANUALLY PRIME FILL TRAP BEFORE START-UP
- DRAIN PAN WATER SEAL PIPING DETAIL



Montefiore

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PRIMARY HEALTH CLINICS

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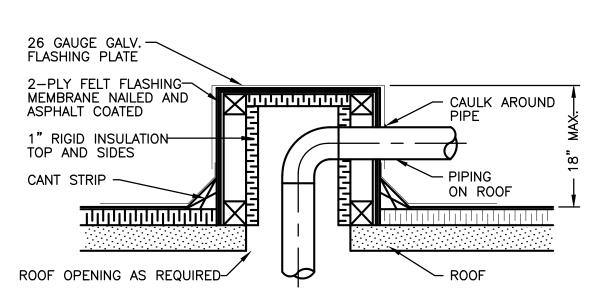
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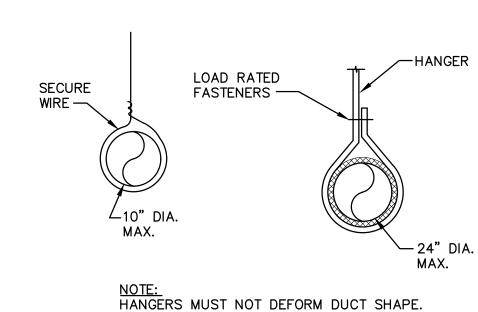




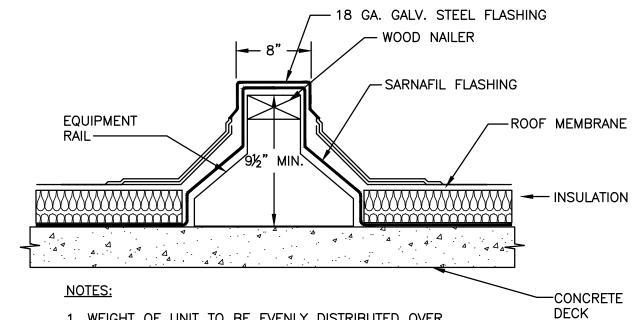
METAL FRAME —

WOOD NAILER

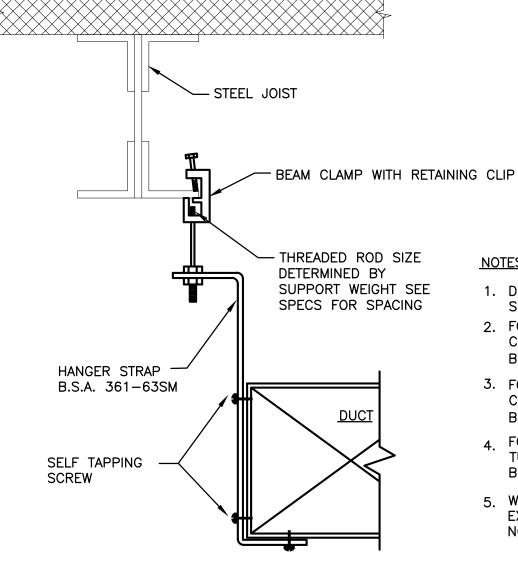
NOMINAL 2" X 4"-



ROUND DUCT HANGING DETAIL



- 1. WEIGHT OF UNIT TO BE EVENLY DISTRIBUTED OVER CROSS-SECTIONAL AREA OF WOOD NAILER.
- 2. RAIL SHALL BE FASTENED TO STRUCTURE PER MANUFACTURER RECOMMENDATIONS.
- 3. VIBRATION ISOLATORS SHALL BE FASTENED TO EQUIPMENT RAIL AND MECHANICAL EQUIPMENT.
- 4. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR
- 5. EQUIPMENT RAIL SHALL BE "ROOF PRODUCTS & SYSTEMS" MODEL ER-4A, OR EQUIVALENT.



### 1. DUCTS SHALL NOT BE HUNG FROM OR

- SUPPORTED BY HUNG CEILING. 2. FOR DUCTS NOT EXCEEDING 2 SQ. FT. IN CROSS-SECTIONAL AREA, HANGERS SHALL BE OF METAL NOT LESS THAN 1/16".
- 3. FOR DUCTS LARGER THAN 2 SQ. FT. IN CROSS-SECTIONAL AREA, HANGERS SHALL BE OF METAL NOT LESS THAN 1" BY 1/8". 4 FOR ALL DUCTS. HANGERS SHALL BE
- TURNED UNDER AND FASTENED TO THE BOTTOM OF DUCT AS SHOWN ABOVE.
- 5. WHERE CROSS-SECTIONAL AREA OF DUCT EXCEEDS 8 SQ. FT., HANGERS SHALL BE

### METHOD OF HANGING DUCTWORK

3½" MINIMUM	FLASHING RECEIVER  COUNTER FLASHING FASTENE APPROX. 18" O.C.		OF EQUIPMENT RAIL DETAI	L FOR	RTU-2-	<u>-6</u>
18" MINIMUM	OPTIONAL COUNTER FLASHING EXTENDED DOW TO PROTECT AGAINST FOO DAMAGE					
				UNIT NO.	SERVICE	LOC
	FASTENERS 6" O.C.	FIRE RATED WALL OR PARTITION		EF-1,2	RESTROOM	R
DECK—	BASE FLASHING	LINTEL BY G.C.	PROVIDE MIN. 1/4", MAX. 1/2" CLEARANCE ON BOTH SIDES AND TOP. SEAL CLEARANCE WITH	EF-3	RESTROOM	R
ALTERNATE FRAME LOCATION FOR HEAVY UNITS—	INSULATION	AS REQUIRED  1/8" MIN. MOUNTING  ANGLE IRON FRAME	FIBERGLASS CAULKING  18 GAUGE GALVANIZED STEEL INTERLOCKING BLADES		NISH WITH S VIDE WITH B	
FIBER CANT —/ STRIPSET IN BITUMEN	WOOD BLOCKING FASTENED TO DECK	14 GAUGE SLEEVE — (g)	FUSIBLE LINK RATED 50°F ABOVE SYSTEM MAX. TEMP. BUT NOT LESS THAN 160°F			
	Π	NARIE NARIE		UNIT NO.	LOCA	ATION
SEALING MATERIAL MUST BE CONTINUOUS ON THE PERIMETER.	BASE OF UNIT EXTENDS ½" MINIMUM BEYOND AND DOWN OVER TOP OF CURB	DUCT		RTU-1	I RO	00F
ON THE LEMMETER.			CONNECTION	RTU-2	2	
WOOD NAILER	FLASHING RECEIVER  1" MINIMUM		WITH "S" TYPE SLIP JOINT	RTU-3		
NOMINAL 2x4.				RTU-4		-
UNIT MOUNTING CURB	FASTENERS (TYPICAL)	ACCESS DOOR AND 1"	1-1/2" x 1-1/2" x 1/8" ANGLE	10-3	<u></u>	<u> </u>
UNIT MOUNTING CORB	COUNTER FLASHING	ACCESS DOOR, MIN. 1"—  SMALLER THAN DUCT  HEIGHT, 12" MIN. LENGTH	IRON FRAME ON 3 SIDES FASTENED TO DUCT SLEEVE (MINIMUM)	PR	RE FILTER	
		TILIGITI, 12 WIIV. LEIVOTT	_	EFF.	TYPE	<u>:</u>
INSULATION	BASE FLASHING	18 GAUGE GALV. STEEL— FRAME BRACED AS REQUIRED				
		WITH 1/4"Ø GALV. STEEL RODS FASTENED TO SLEEVE		<u>NOTES</u> 1. FUR	RNISH WITH	THE F
		CHITTED TYPE FIRE		A. B.	ACOUSTIC F 30% PRE-F	ROOF FILTER

	SHUTTER TYPE FIRE DAMPER FOR
(10)	FOR LOW PRESSURE SYSTEMS DETAIL
(10)	N.T.S.

				EXHA	UST F	AN S	CHED	ULE			NHECK" AS STANDARD PPROVED EQUAL
UNIT NO.	SERVICE LOCATION CFM E.S.P. (IN.)  RESTROOM ROOF 200 0.27		DRIVE FAN FAN BHP			MOTOR HP (HP)	ELEC. DATA V/HZ/PH	MODEL NO.	REMARKS		
EF-1,2	RESTROOM	ROOF	200	0.27	DIRECT	966	0.02	1/30	115/60/1	G-095-E	-
EF-3	RESTROOM	ROOF	300	0.3	DIRECT	902	0.02	1/30	115/60/1	G-095-E	-

1. FURNISH WITH SOUND ATTENUATING ROOF CURBS. 2. PROVIDE WITH BACKDRAFT DAMPER.

			P	ACI	KA	GEI	D R	OOFT	OP	UN	<b>IIT</b>	SC	HE	DU	LE					9:		IN" AS APPR												
UNIT	LOCAT	IONI	С	FM		С	COOLING	G (MBH)		OLING				ELECT	TRIC HEATIN					EV	/APOR	ATOR F	AN											
NO.	LOCATIO	NO.		LOCATION		LOCATION		LOCATION		LOCATION		TOTAL	MIN.	0.A.%	TO	TAL	SENSIBLE	EAT DB	(°F) /WB	LAT DB,	(°F) /WB	CAP/ KW/	ACITY MBH	NO. OF COILS	NO. STA	OF GES	IN.	SP WC.	M/ Bł	AX HP	MO H	TOR IP	DRI	VE
RTU-1	ROO	F	1,435	20	0%	5	9		77.1	/64.1	55.5	/52.1	10,	/34			1	0.4	4–1	0.	72	0	33	DIRE	ECT									
RTU-2			1,580																															
RTU-3			1,585																															
RTU-4			1,435																															
RTU-5			1,320			1				V	,	ļ	,				ļ		ļ	,														
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PRE	FILTER	CONDENS	SER FAN		COMPRESSOR		ELEC	CTRICAL D	ATA	EER	WEIGHT	MODEL
EFF.	TYPE	NO.	HP	NO.	RLA	LRA	VOLT/PH	MCA	МОСР	LLIX	(LBS.)	WODLL
		1		1	16.2	110	208/3	44.1	70	12.1	630	DAIKIN DRH0603D, 10 KW HEATER KIT MODEL # EH*D*S10

- 1. FURNISH WITH THE FOLLOWING OPTIONS: A. ACOUSTIC ROOF CURB FACTORY BUILT CURB. ADAPTER
  B. 30% PRE—FILTER (2" PLEATED)
  C. STAINLESS STEEL DRAIN PAN

  - SUPPLY AIR SMOKE DETECTOR
    FACTORY INSTALLED DOWNFLOW ECONOMIZER STANDARD LOW-LEAK JADE ENTHALPY SENSOR AND POWER EXHAUST PROP DOWNFLOW ECONOMIZER
  - . PACTORT INSTALLED DOWNFLOW ECONOMIZER STANDARD LOW-LEAR SADE
    . UNIT MOUNTED DISCONNECT AND CONVENIOUNCE OUTLET.
    . VERTICAL SUPPLY AND RETURN AIR FLOW
    . HINGED ACCESS DOORS
    . ELECRTIC HEAT KIT 10 KW (EHSD-3510), 15 KW (EHSD-3515), 2YOV/3ø

### DESCRIPTION OF THE ALTERATION. DRAWING TITLE: **HVAC: DETAILS AND** SCHEDULES

21019	
DATE 3/21/2022	SCALE AS NOTED
DRAWING NUMBER	

### **ELECTRICAL DEMOLITION NOTES:**

CONSTRUCTION PHASING SCHEDULE.

- 1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT AREAS TO BE DEMOLISHED.
- 2. DISCONNECT AND REMOVE ALL DEVICES, FIXTURES, FIRE ALARM DEVICES, DATA/TEL. OUTLETS, POWER CONNECTIONS TO HVAC EQUIPMENT AND DISCONNECT SWITCHES, CONDUIT & WIRING FROM ALL WALLS/CEILINGS BEING REMOVED, WITHIN THIS AREA BACK TO POWER PANEL OF ORIGIN. ALL EXISTING CIRCUIT BREAKERS SHALL REMAIN IN PLACE AND LABELED AS "SPARE".
- 3. ALL EXISTING DEVICES SCHEDULED TO REMAIN SHALL BE EXTENDED/RE—CIRCUITED TO MAINTAIN CONTINUITY OF CIRCUIT/DEVICES.
- 4. REMOVALS SHALL INCLUDE, BUT NOT BE LIMITED TO DEVICES, FIXTURES, FIRE ALARM DEVICES, DATA/TEL. OUTLETS, POWER CONNECTIONS TO HVAC

EQUIPMENT AND DISCONNECT SWITCHES, CONDUIT & WIRING.

- 5. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY WORK AND/OR MATERIALS TO RENDER EXISTING SYSTEM OPERATIONAL DURING ALL PHASES OF CONSTRUCTION IN ALL OCCUPIED SPACES. INCLUDING BUT NOT LIMITED TO, POWER, DATA, LIGHTING, EMERGENCY COMPONENTS & ALARMS. COORDINATE WITH ALL TRADES, OWNER AND OVERALL
- 6. ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
- 8. THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

### **FIRE ALARM NOTES:**

- 1. REFER TO THE FLOOR PLANS FOR LOCATION & QUANTITY OF FIRE ALARM DEVICES.
- 2. ALL FIRE ALARM WIRING SHALL BE IN TEFLON WIRE AND SHALL BE CONCEALED IN CEILING SPACES & WALLS.
- 3. CONTRACTOR IS RESPONSIBLE FOR ALL FILING AND FINAL INSPECTION AS PER THE LOCAL AUTHORITY HAVING JURISDICTION.
- 4. CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY MODULES, INTERFACE MODULES AND DEVICES REQUIRED TO PROVIDE AN
- 5. FIRE ALARM PANEL SHALL PROVIDE CONTINUOUSLY SUPERVISED

OPERABLE ALARM SYSTEM IN COMPLIANCE WITH ALL CODES.

- MONITORING OF ALL SYSTEMS FOR OPENS, SHORTS AND GROUNDS.

  6. ACTIVATION OF THE SMOKE DETECTORS SHALL CAUSE A GENERAL
- ALARM AFTER THE SMOKE DETECTOR PERFORMS VERIFICATION.
- 7. ACTIVATION OF ANY PULL STATION SHALL IMMEDIATELY CAUSE THE ALARM PANEL TO ENTER THE ALARM MODE.
- 8. UPON ENTERING THE PANEL ALARM MODE, THE ALARM INDICATING DEVICE SHALL BE ACTIVATED, AND THE SUPPLY FANS SHALL SHUT-DOWN AND THE DIGITAL COMMUNICATOR SHALL NOTIFY THE CENTRAL RECEIVING STATION.
- 9. CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL RELAY DEVICES OR POWER TRANSFORMERS FOR PROPER OPERATION OF THE FAN SHUT-DOWN UNITS AND OTHER RELATED DEVICES.
- 10. BATTERY BACKUP SHALL PROVIDE A MINIMUM OF 24 HRS. OPERATION WITH A 15 MINUTE ALARM AT THE END OF 24 HRS.
- 11. NEW FIRE ALARM SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA CODES 70, 70E, 72, BCNYS, FCNYS, LSC101 (2000)—CH.32 NEW BOARD AND CARE OCCUPANCY AS WELL AS ALL LOCAL AND STATE CODE REQUIREMENTS.
- 12. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL APPURTENANCES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. MODEL NUMBERS GIVEN MAY NOT INCLUDE ALL SPECIFIC REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION.
- 13. PROVIDE APPURTENANCES NECESSARY SUCH THAT IF MORE THEN TWO STROBES ARE VISIBLE THEY SHALL FLASH IN SYNCH.
- 14. ENTIRE FIRE DETECTION AND ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED BY A N.Y. STATE LICENSED ALARM CONTRACTOR.
- 15. FIRE ALARM PANEL SHALL BE PROVIDED WITH A REMOTE DIALER WITH (2) DIRECT CONNECTIONS TO THE ROCKLAND COUNTY FIRE CONTROL CENTER. (44—CONTROL).
- 16. FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL A KNOX BOX AT THE ENTRANCE TO THE BUILDING NEAREST THE FIRE ALARM PANEL WITH SIGNAGE ON THE DOOR TO THE FIRE ALARM CONTROL PANEL ROOM. COORDINATE ALL REQUIREMENTS WITH LOCAL FIRE AND BUILDING DEPARTMENT OFFICIALS.
- 17. ALL AIR HANDLING SYSTEMS RATED 2,000 CFM OR MORE SHALL BE PROVIDED WITH DUCT SMOKE DETECTORS FAN SHUTDOWNS CONNECTED TO THE FIRE ALARM SYSTEM.

### **GENERAL NOTES:**

- 1. ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY, EXACT RUNS SHALL BE DETERMINED IN FIELD EXCEPT WHERE SPECIFICALLY DIMENSIONED ON CONDUIT LAYOUTS. CONTRACTOR SHALL FOLLOW MINIMUM SPACING REQUIREMENTS TO REDUCE ELECTROMAGNETIC INTERFERENCE. COORDINATE CONDUIT ROUTING WITH ALL OTHER TRADES.
- 2. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING WALLS AND BEAMS EXCEPT WHERE OTHERWISE SHOWN. CONTRACTOR SHALL INSTALL CONDUIT IN SUCH A MANNER TO AVOID ALL INTERFERENCES.
- 3. DEFLECTION/EXPANSION FITTINGS SHALL BE PROVIDED WHERE RIGID METAL CONDUIT CROSSES STRUCTURAL EXPANSION JOINTS.
- 4. EXPOSED CONDUIT SHALL BE SUPPORTED ON WALLS OR CEILINGS BY APPROVED HANGERS OF ANGLE OR CHANNEL CONSTRUCTION. CONDUITS SHALL BE SUPPORTED AT LEAST EVERY EIGHT (8) FEET.
- 5. ALL SPARE CONDUITS SHALL BE TERMINATED AS SHOWN ON CONDUIT LAYOUTS AND SHALL BE CAPPED 3" ABOVE FINISHED FLOOR.
- 6. NO CONDUIT SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE ON PLANS.
- 7. EXACT CONDUIT STUB-UP LOCATIONS ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR BASED ON CERTIFIED MANUFACTURER'S DRAWINGS OF THE RESPECTIVE EQUIPMENT. CONDUIT SHALL BE INSTALLED TO AGREE WITH EQUIPMENT FURNISHED.
- 8. ALL LIGHTING WIRING SHALL BE #12AWG. UNLESS OTHERWISE NOTED. THE NUMBER OF WIRES SHOWN ON THE DRAWINGS IS NOT NECESSARILY THE CORRECT NUMBER REQUIRED. THE CONTRACTOR SHALL INSTALL AS MANY AS ARE NECESSARY FOR PROVIDING A COMPLETE ELECTRICAL SYSTEM IN EACH CASE.
- 9. CONDUITS PASSING THROUGH BUILDING FLOORS OR WALLS BELOW GRADE ARE TO BE INSTALLED WITH WATERTIGHT THRU WALL CONDUIT SEAL FITTINGS.
- 10. EQUIPMENT FURNISHED BY OTHERS SHALL BE INSTALLED & ENERGIZED BY THE ELECTRICAL CONTRACTOR.
- 11. THE ELECTRICAL CONTRACTOR SHALL NOT ENDANGER THE STABILITY OF THE STRUCTURE OR ANY PART THEREOF BY CUTTING, DRILLING OR OTHERWISE, AND SHALL NOT IN ANY WAY CUT OR ALTER THE WORK OF ANY OTHER CONTRACTOR, EXCEPT WITH THE WRITTEN CONSENT OF AND UNDER THE DIRECTION OF THE ARCHITECT AND/OR GENERAL CONTRACTOR.
- 12. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL APPROVALS AND CERTIFICATES AND PAY ALL FEES FOR ALL THE WORK INSTALLED. CERTIFICATES SHALL BE DELIVERED TO THE GENERAL CONTRACTOR BEFORE FINAL PAYMENT WILL BE MADE.
- 13. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE VERSION OF THE NEC AS WELL AS ALL STATE AND LOCAL CODES.
- 14. THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBE THE GENERAL ARRANGEMENTS AND LOCATION OF OUTLET BOXES, ETC. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH EXISTING CONDITIONS, THE WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF
- 16. ARRANGE FOR SITE VISIT WITH THE BLDG. OWNER REPRESENTATIVE AND GENERAL CONTRACTOR.
- 17. CLAIMS FOR ADDITIONAL COMPENSATION ARISING DUE TO THE FAILURE OF THE CONTRACTOR TO FULLY UNDERSTAND THE SITE CONDITIONS SHALL NOT BE PAID FOR BY ANY OTHER PARTY.
- 18. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. CONDUIT OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED—FURNISH PULL STRING.
- 19. DO NOT PULL THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32 DEG F (0 DEG C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
- 20. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. INSTALL SWITCH ON SIDE OPPOSITE HINGE; VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
- 21. SUPPORT PANEL, JUNCTION & PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUIT.
- 22. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
- 23. FOR EACH LOCATION OF OTHER TRADES EQUIPMENT, SEE RESPECTIVE TRADE DRAWINGS.
- 24. FOR RECEPTACLE & OUTLETS MOUNTING HEIGHTS AND POSITION (HORIZONTAL, VERTICAL), COORDINATE WITH ARCHITECT, OWNER, REPRESENTATIVE & DATA/ COMMUNICATION CONSULTANT.
- 25. CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAILS SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE WORKABLE
- 26. ALL CONDUITS, TRANSFORMERS ETC. SHALL BE SUPPORTED FROM STRUCTURAL STEEL ONLY. COORDINATE WITH GENERAL CONTRACTOR.
- 27. ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT IN ELECTRICAL AND SERVICE SWITCHBOARD ROOM SHALL BE INSTALLED ON 4" CONCRETE PAD AS REQUIRED TO SUPPORT EACH SECTION OF EQUIPMENT. COORDINATE WITH GENERAL CONTRACTOR.
- 28. PROVIDE BARRIERS IN ALL PULL BOXES FOR CONDUIT SETS.
- 29. PAINT AND RUST PROOF ALL HARDWARE & CONDUITS ON ROOF AND IN EXPOSED AREAS AS DIRECTED BY GENERAL CONTRACTOR.
- 30. NUMBER SHOWN ADJACENT TO LIGHTING FIXTURES, RECEPTACLES, OUTLETS, JUNCTION BOXES ETC. INDICATES CIRCUIT NUMBER.
- 31. ALL GROUND CONNECTIONS TO THE BUILDING STEEL SHALL BE EXOTHERMIC WELDED.
- 32. FLEXIBLE CONNECTIONS IN EXPOSED AREAS SHALL NOT EXCEED 18" MAXIMUM.
- 33. ALL EQUIPMENT DEVICES, WIRING, ETC. SHOWN ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED
- 34. ELECTRICAL CONTRACTOR SHALL PROVIDE SLEEVES/ OPENINGS FOR ALL CONDUIT RISERS PENETRATING WALLS, ROOF & FLOOR SLABS. ALL ROOF AND MECH. ROOMS SLAB PENETRATIONS SHALL BE WATERPROOF. METHOD OF PENETRATIONS & FIRE/WATER WATER PROOFING SHALL BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER, COORDINATE WITH GENERAL CONTRACTOR.
- 35. ELECTRICAL CONTRACTOR SHALL BECOME FAMILIAR AND COMPLY WITH OWNERS BUILDING STANDARDS FOR CONSTRUCTION.
- 36. ALL FINAL CONNECTIONS TO VIBRATING EQUIPMENT (MOTORS, GENERATORS ETC.) SHALL BE THROUGH A LIQUID TIGHT FLEXIBLE METAL CONDUIT.
- 37. CONTRACTOR SHALL WIRE NO MORE THAN EIGHT CONVENIENCE RECEPTACLES TO A 20A SINGLE POLE CIRCUIT. UTILIZE 2-#12&1 #12 GND IN ¾" CONDUIT & 1-20A SINGLE POLE CIRCUIT BREAKER FOR EACH CIRCUIT. INSTALL ADDITIONAL CIRCUIT AS NECESSARY TO MEET THIS REQUIREMENT.
- 38. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
- 39. THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- 40. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT;
  DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE
  SATISFACTION OF ALL PARTIES.
- 41. IT IS THE INTENT AND PURPOSE OF THESE SPECIFICATIONS AND DRAWINGS TO INCLUDE AND PROVIDE FOR ALL MATERIALS, APPLIANCES AND LABOR TO PROPERLY COMPLETE AND LEAVE IN PERFECT WORKING CONDITION THE ENTIRE SYSTEM HEREINAFTER SPECIFIED. ANY MATERIAL, LABOR OR APPLIANCE NOT SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION MUST BE FURNISHED BY THIS

### POWER SYMBOLS

- SPEC GRADE NEMA 5-20R RECEPTACLE.

  -GFI INDICATES GROUND FAULT INTERRUPTION

  -WP INDICATES WEATHER PROOF ENCLOSURE
- SPEC GRADE NEMA 5-20R RECEPTACLE. MOUNT AT 44" AFF OR 6" ABOVE COUNTER, UNO.

  -GFI INDICATES GROUND FAULT INTERRUPTION
- −WP INDICATES WEATHER PROOF ENCLOSURE
   → 2P, 3 WIRE, 250V GROUNDING NEMA 6-30R RECEPTACLE.
   −GFI INDICATES GROUND FAULT INTERRUPTION

-WP INDICATES WEATHER PROOF ENCLOSURE

- 1P, 3 WIRE, 125V QUAD RECEPTACLE.
   GFI INDICATES GROUND FAULT INTERRUPTION
   WP INDICATES WEATHER PROOF ENCLOSURE
- SPECIAL PURPOSE CONNECTION.
- CONDUIT HOME RUN TO DESIGNATED PANEL. REFER TO PANEL SCHEDULE FOR CONDUIT & CABLE QUANTITY AND SIZE.
- DOUBLE HOME RUN
- TRIPLE HOME RUN

GROUND

TRANSFORMER

m 120V, OR 208V, 1P, MOTOR STARTER WITH OVERLOADS TO SERVE AS DISCONNECTING MEANS. COORDINATE WITH OTHER TRADES.

### **ABBREVIATIONS**

Α	AMPERE	KV	KILO VOLT
ACT	ACOUSTIC CEILING TILE	KVA	KILO VOLT AMP
AD	AUTOMATIC DAMPER	KW	KILO WATT
AF	AMPERE FRAME	LED	LIGHT-EMITTING DIODE
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AIC	AMPERE INTERRUPTING CAPACITY	M.C.	MECHANICAL CONTRACTOR
AL	ALUMINUM	МСМ	THOUSAND CIRCULAR MILS
AUTO	AUTOMATIC	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MECH	MECHANICAL
BCW	BARE COPPER WIRE	MDP	MAIN DISTRIBUTION PANEL
С	CONDUIT	MLO	MAIN LUGS ONLY
CAT	CATALOG	MTD	MOUNTED
СВ	CIRCUIT BREAKER	MTG	MOUNTING
CKT	CIRCUIT	N	NEUTRAL
CLG	CEILING	NIC	NOT IN CONTRACT
CT	CURRENT TRANSFORMER	NEC	NATIONAL ELECTRIC CODE
CU	COPPER	NTS	NOT TO SCALE
DP	DISTRIBUTION PANEL	NM	NON-METALLIC CONDUIT
DIV	DIVISION	Р	POLE
DWG	DRAWING	PB	PULL BOX
EA	EACH	Ø	PHASE
E.C.	ELECTRICAL CONTRACTOR	PWR	POWER
ELEV	ELEVATOR	RECEPT.	RECEPTACLE
EQUIP.	EQUIPMENT	REQ.	REQUIRED
EMT	ELECTRICAL METALLIC TUBING	RM	ROOM
FA	FIRE ALARM	SCHED.	SCHEDULE
FAP	FIRE ALARM PANEL	SECT.	SECTION
FL	FLOOR	SPEC.	SPECIFICATION
FT	FEET OR FOOT	SW	SWITCH
G, GND	GROUND	SYS	SYSTEM
GFI	GROUND FAULT INTERRUPTER	TEL	TELEPHONE
G.C.	GENERAL CONTRACTOR	TC	TIME CLOCK
HP	HORSEPOWER	TYP	TYPICAL
HVAC	HEATING, VENTILATING & AIR CONDITIONING	U.N.O.	UNLESS NOTED OTHERWISE
HZ	HERTZ	VIF	VERIFY IN FIELD
IC	INTERRUPTING CAPACITY	WP	WEATHER PROOF
IMC	INTERMEDIATE METAL CONDUIT	W	WATT

### LEGEND AND SCHEDULE OF FIRE ALARM EQUIPMENT

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
Ф	FIRE-LITE	BG-12	ADDRESSABLE MANUAL DUAL—ACTION PULL STATION WITH HEX LOCK. RED
€ FIRE−LITE		D335PL	ADDRESSABLE NON-RELAY PHOTOELECTRIC DUCT SMOKE DETECTOR. PROVIDE WITH APPROPRIATELY SIZED METAL SAMPLING TUBE AND ALL OTHER APPURTENANCES NECESSARY FOR A COMPLETE SYSTEM. COORDINATE INSTALLATION WITH M.C.
<u>S</u>	FIRE-LITE	SD-365	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR WITH ADJUSTABLE .05% TO 4% SENSITIVITY
<b>S</b>	SYSTEM SENSOR	SRL	STROBE WITH SELECTABLE 15,30,75,95,110, 135, AND 185 cd OUTPUT. RED INDOOR USE ONLY.
H/S		P2RL	HORN-STROBE WITH SELECTABLE 15,30,75, 95,110,135, AND 185 cd STROBE OUTPUT AND SELECTABLE 83-90 db HORN OUTPUT. RED. INDOOR USE ONLY.

### NOTES:

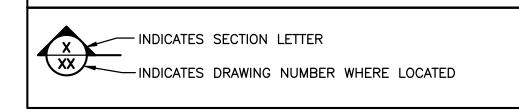
1. PROVIDE APPURTENANCES NECESSARY SUCH THAT IF MORE THEN TWO STROBES ARE VISIBLE THEY SHALL FLASH IN SYNCH.

2. STROBES MUST BE PLACED 15' FROM THE END OF ANY CORRIDOR.

### LEGEND AND SCHEDULE OF LIGHTING EQUIPMENT

			OLL OF LIGHTING EQUIT MENT		
SYMBOL	MANUFACTURER	MODEL #	DESCRIPTION		
\$	WATTSTOPPER	LMSW-101	DLM PUSH-BUTTON WALL SWITCH. COVER BY ARCHITECT.		
*		DSW-301	LINE VOLTAGE PUSH-BUTTON WALL SWITCH WITH INTEGRAL DUAL-TECHNOLOGY VACANCY SENSOR. COLOR BY ARCHITECT.		
囹		LMDC-100	DLM DUAL—TECHNOLOGY CEILING SENSOR, SET TO MANUAL—ON OPERATION.		
RC1		LMRC-101	DLM ON/OFF SINGLE RELAY ROOM CONTROLLER. MOUNT ABOVE FINISHED CEILING ABOVE LOCAL LIGHT SWITCH. FOR ROOMS WITHOUT FINISHED CEILING, MOUNT INCONSPICUOUSLY AT/NEAR CEILING.		
TC-1	TORK	EWZ-201	INDOOR/OUTDOOR ASTRONOMIC TIMECLOCK WITH 2 SETS OF 40A SINGLE POLE SINGLE THROW CONTACTS. NEMA 3R RATED.		
LC-1	ASCO	91842031	ENCLOSED LIGHTING CONTACTOR WITH 4 SETS OF 30A RATED CONTACTS. 120V COIL VOLTAGE. PROVIDE WITH NEMA 1 ENCLOSURE.		

### **GENERAL SYMBOLS**



### **ELECTRICAL LINE TYPES**

NEW DEVICE
NEW WIRING
NEW FIXTURE

### **COMMUNICATION SYMBOLS**

- COMBINATION TELEPHONE/DATA OUTLET. PROVIDE & INSTALL (2) CAT. 6 CABLES FROM OUTLET LOCATION TO DATA CLOSET ABOVE CEILING EACH IN ¾" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.
- DATA OUTLET. PROVIDE & INSTALL PROVIDE (2) CAT6 CABLE FROM OUTLET LOCATION TO DATA CLOSET ABOVE CEILING EACH IN ¾" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.
- TV OUTLET. PROVIDE & INSTALL PULL STRING FROM OUTLET LOCATION TO DATA CLOSET ABOVE CEILING EACH IN 3/4" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.

### **ENERGY CODE STATEMENT:**

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

### UNIFORM CODE STATEMENT:

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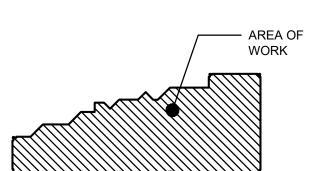
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KEY PLAN: NOT TO SCALE FIRST FLOOR







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DRAWING TITLE:

ELECTRICAL: SYMBOLS, ABBREVIATIONS & NOTES

PROJECT NUMBER
21019

DATE SCALE
3/21/2022 AS NOTED

DRAWING NUMBER

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### **HEATING ELEMENT KEYED NOTE:**

DISCONNECT AND REMOVE ELECTRICAL BASEBOARD.
RETAIN WIRING AND CONDUIT AND PREPARE TO EXTEND AND RECONNECT TO NEW LOCATION OF BASEBOARD.

### **GENERAL NOTE:**

1. DISCONNECT CONDUIT AND WIRING FROM ELECTRICAL BASEBOARD AND PREPARE TO EXTEND TO REFEED THROUGH THERMOSTAT.

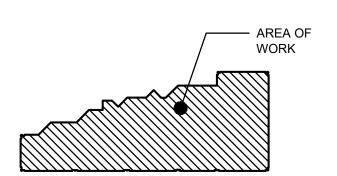
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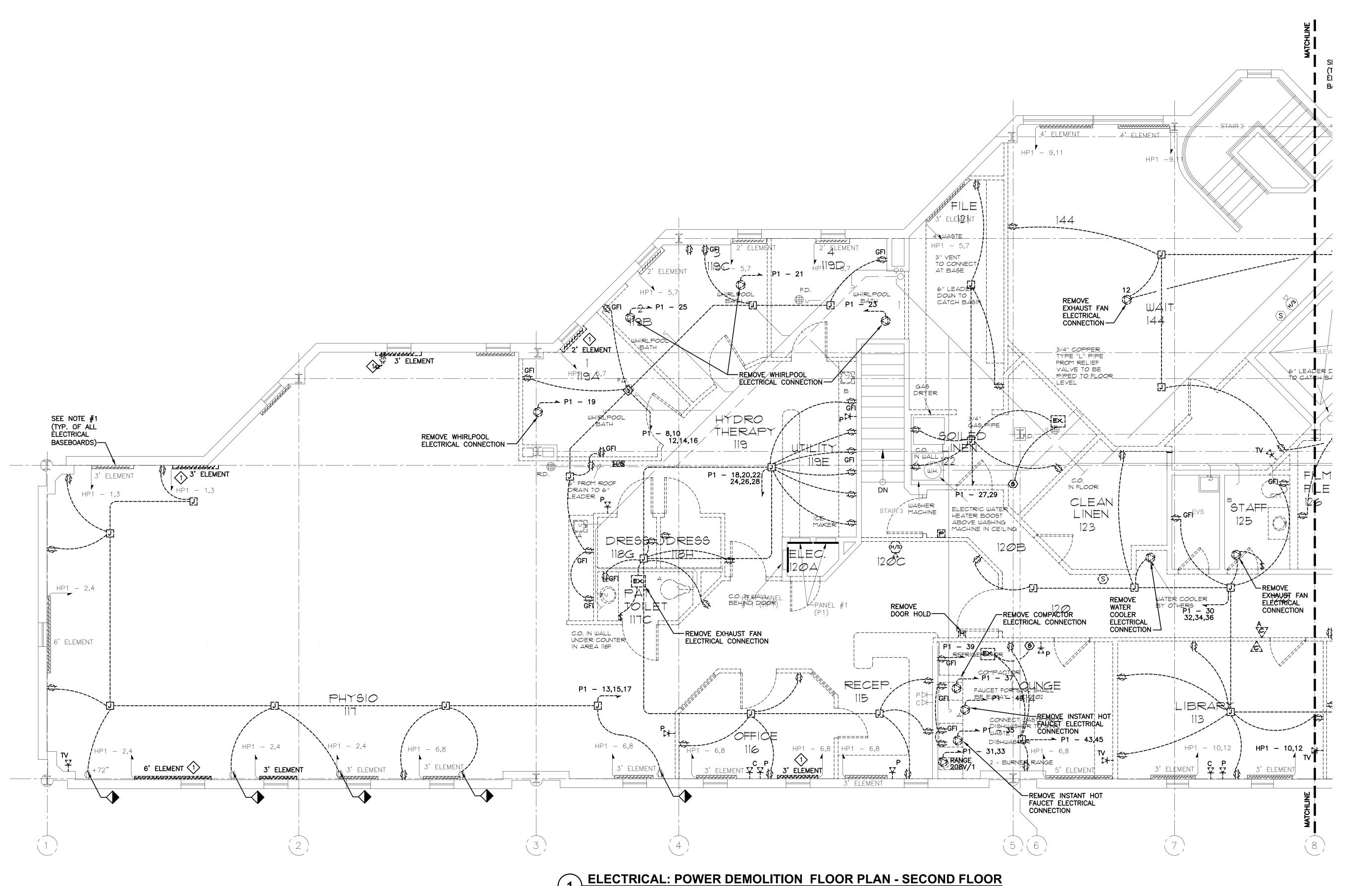
ELECTRICAL: POWER
DEMOLITION FLOOR
PLAN - SECOND FLOOR

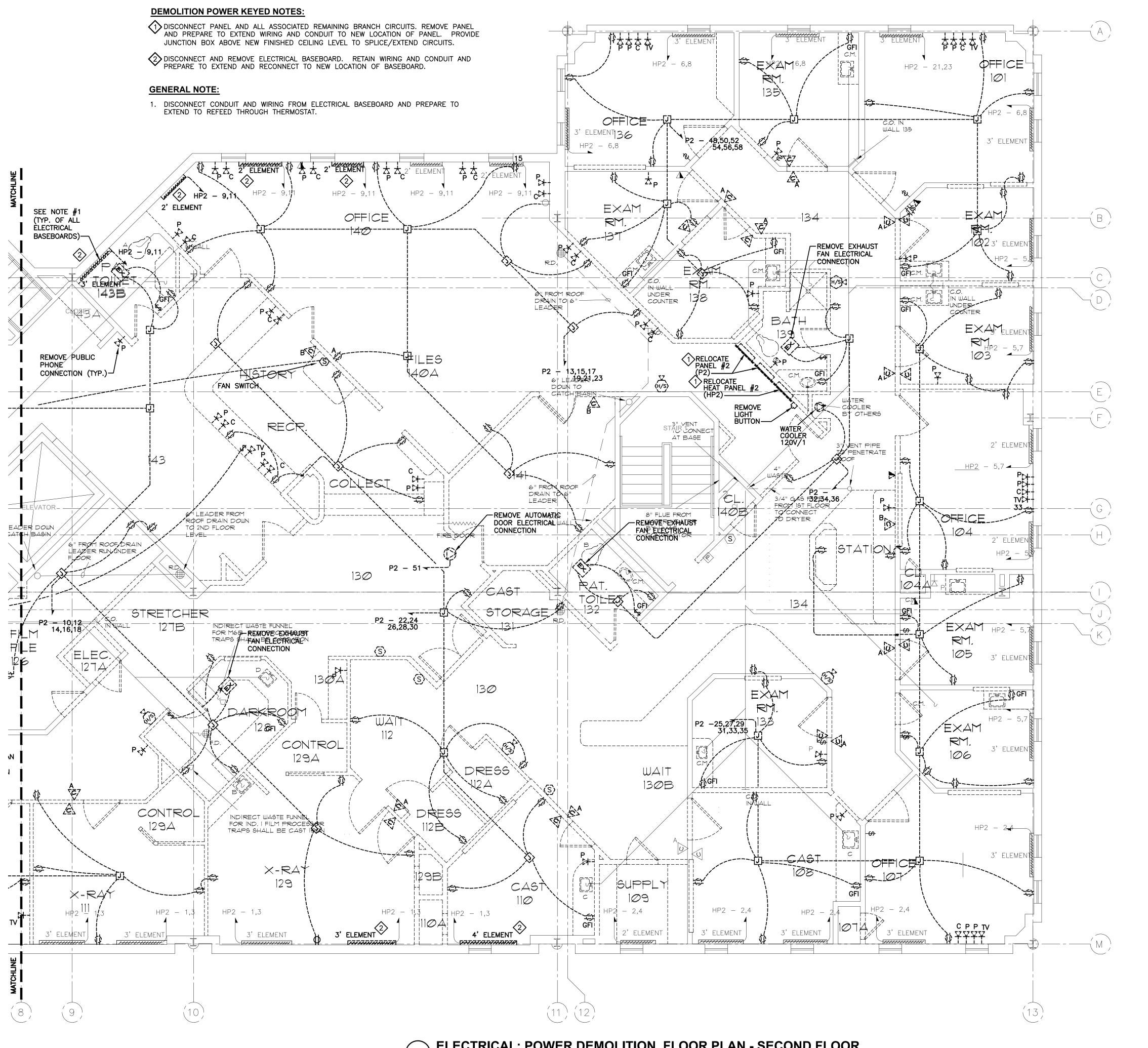
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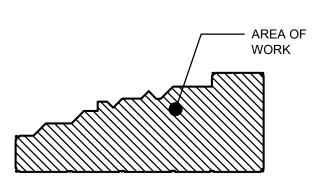


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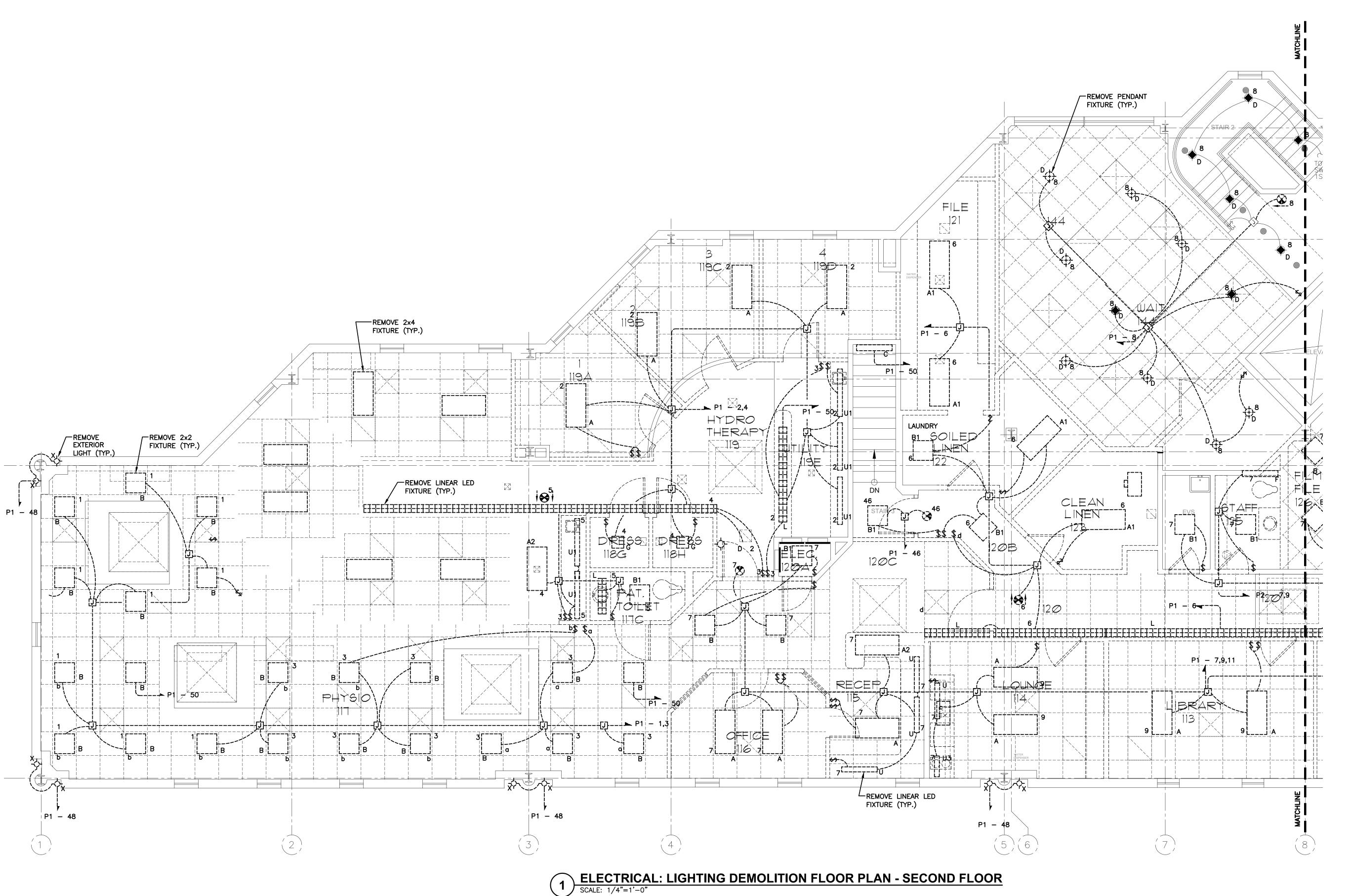
**ELECTRICAL: POWER** DEMOLITION FLOOR PLAN - SECOND FLOOR

PROJECT NUMBER 21019

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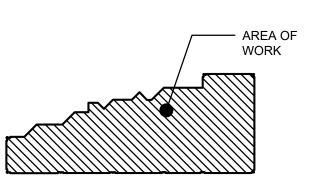
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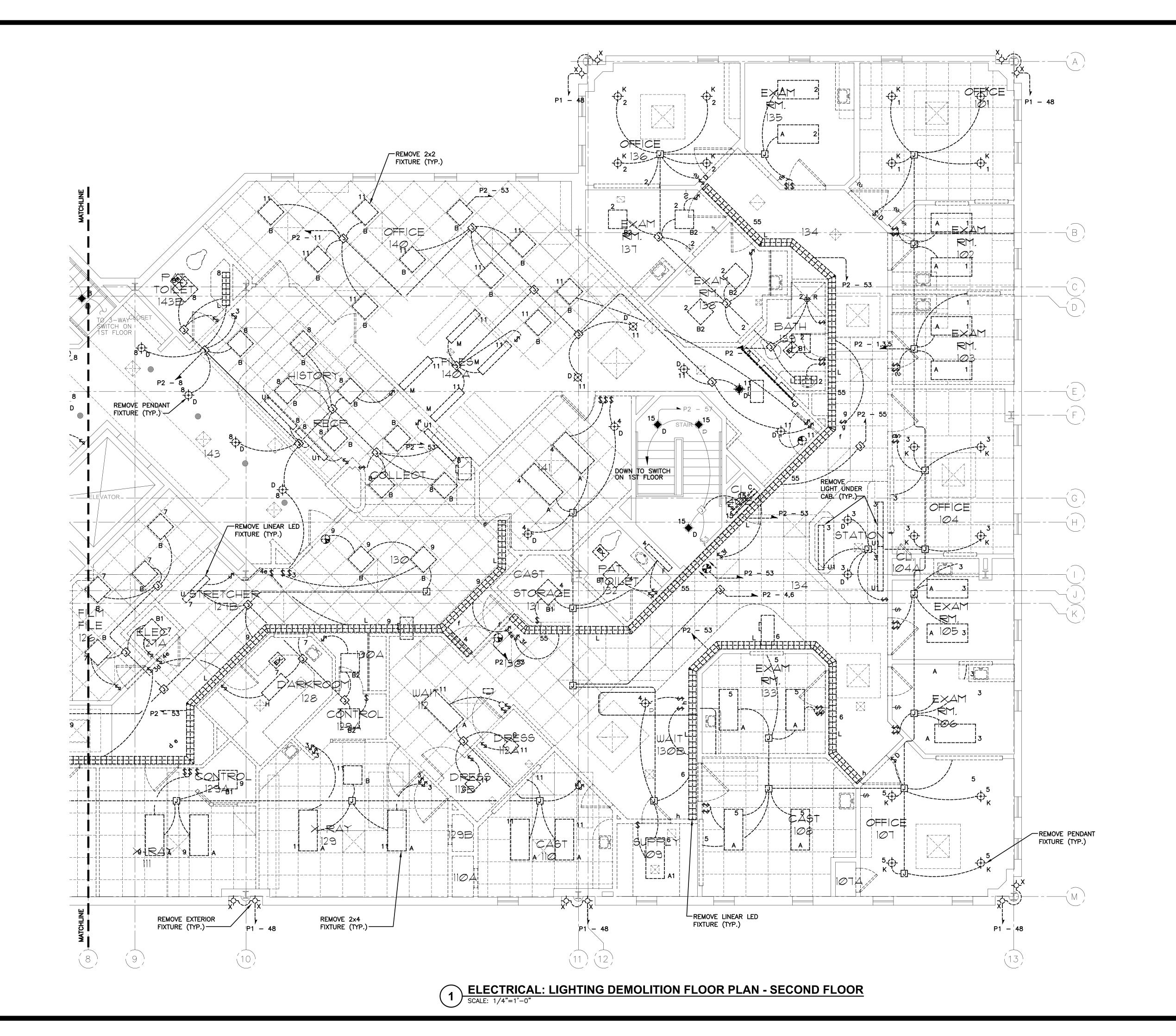
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DRAWING TITLE: **ELECTRIC: LIGHTING** 

### **DEMOLITION FLOOR**

PLAN - SECOND FLOOR PROJECT NUMBER 21019

3/21/2022 DRAWING NUMBER

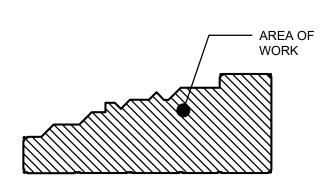


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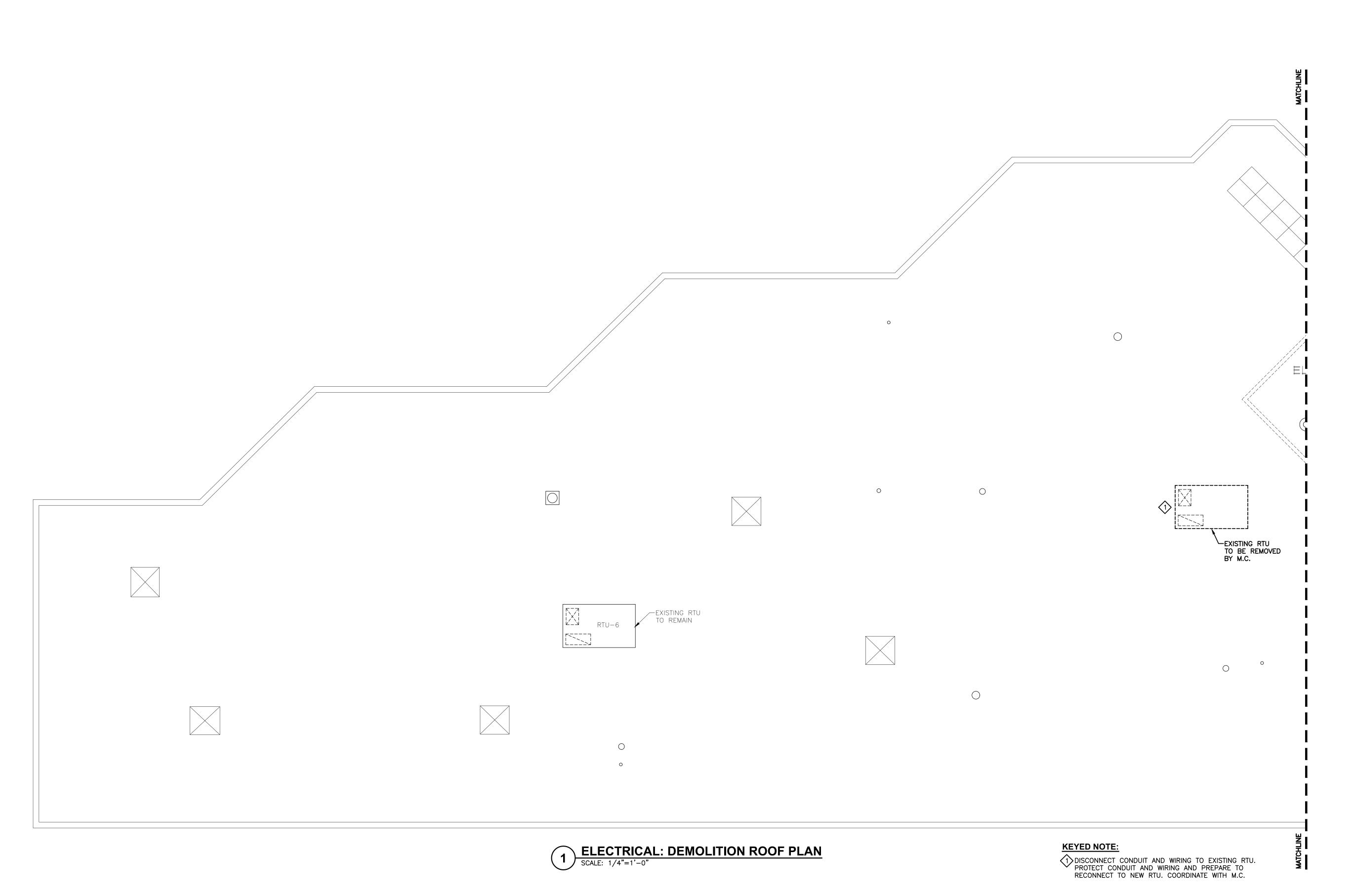
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**ELECTRIC: LIGHTING DEMOLITION FLOOR** PLAN - SECOND FLOOR

PROJECT NUMBER 21019

3/21/2022 DRAWING NUMBER

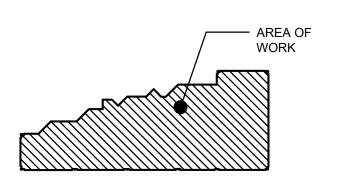


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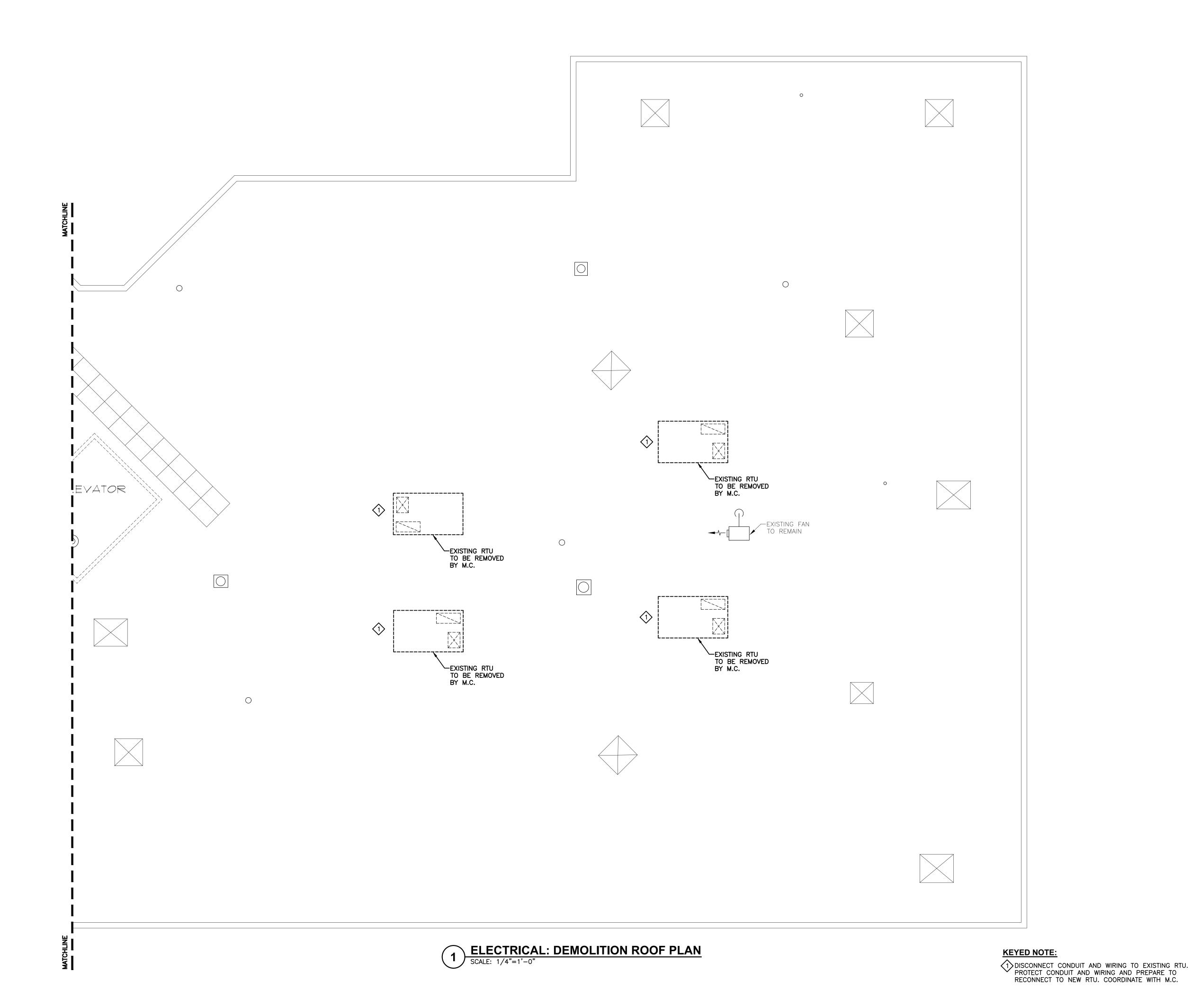
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> DRAWING TITLE: ELECTRICAL:

DEMOLITION **ROOF PLAN** 

PROJECT NUMBER 21019

3/21/2022 DRAWING NUMBER

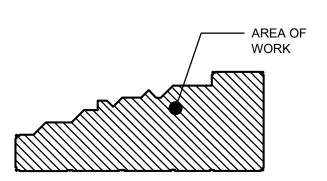


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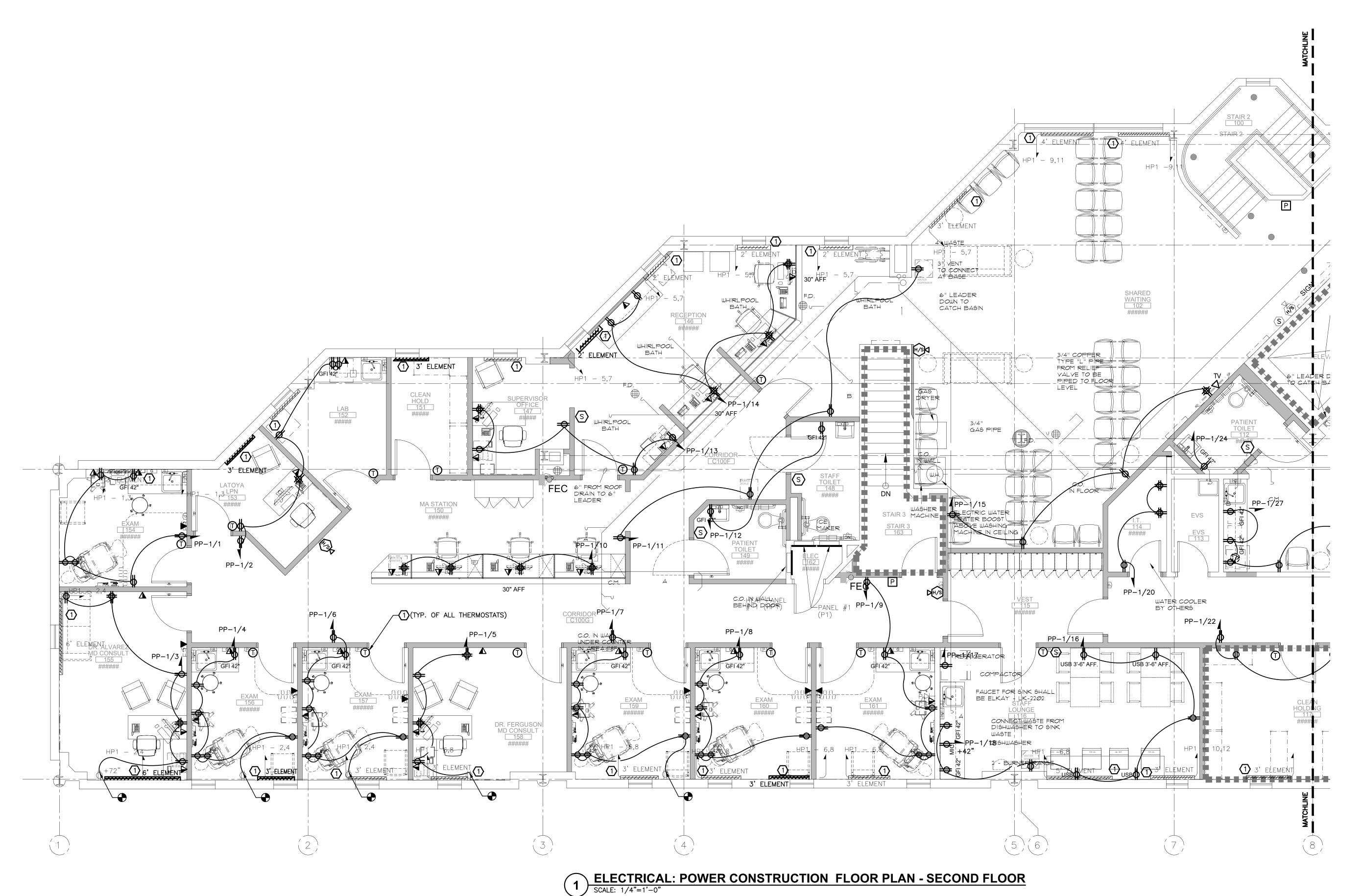
DRAWING TITLE: ELECTRICAL: DEMOLITION **ROOF PLAN** 

PROJECT NUMBER 21019

DATE 3/21/2022

### **NEW POWER CONSTRUCTION KEYED NOTES:**

EXTEND CONDUIT AND WIRING FROM ELECTRICAL BASEBOARD TO THERMOSTAT, MATCH EXISTING CONDUIT AND WIRING AND REFEED BASEBOARD THROUGH THERMOSTAT.



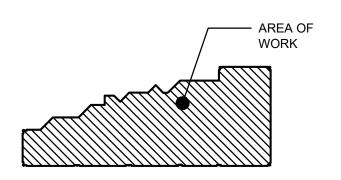
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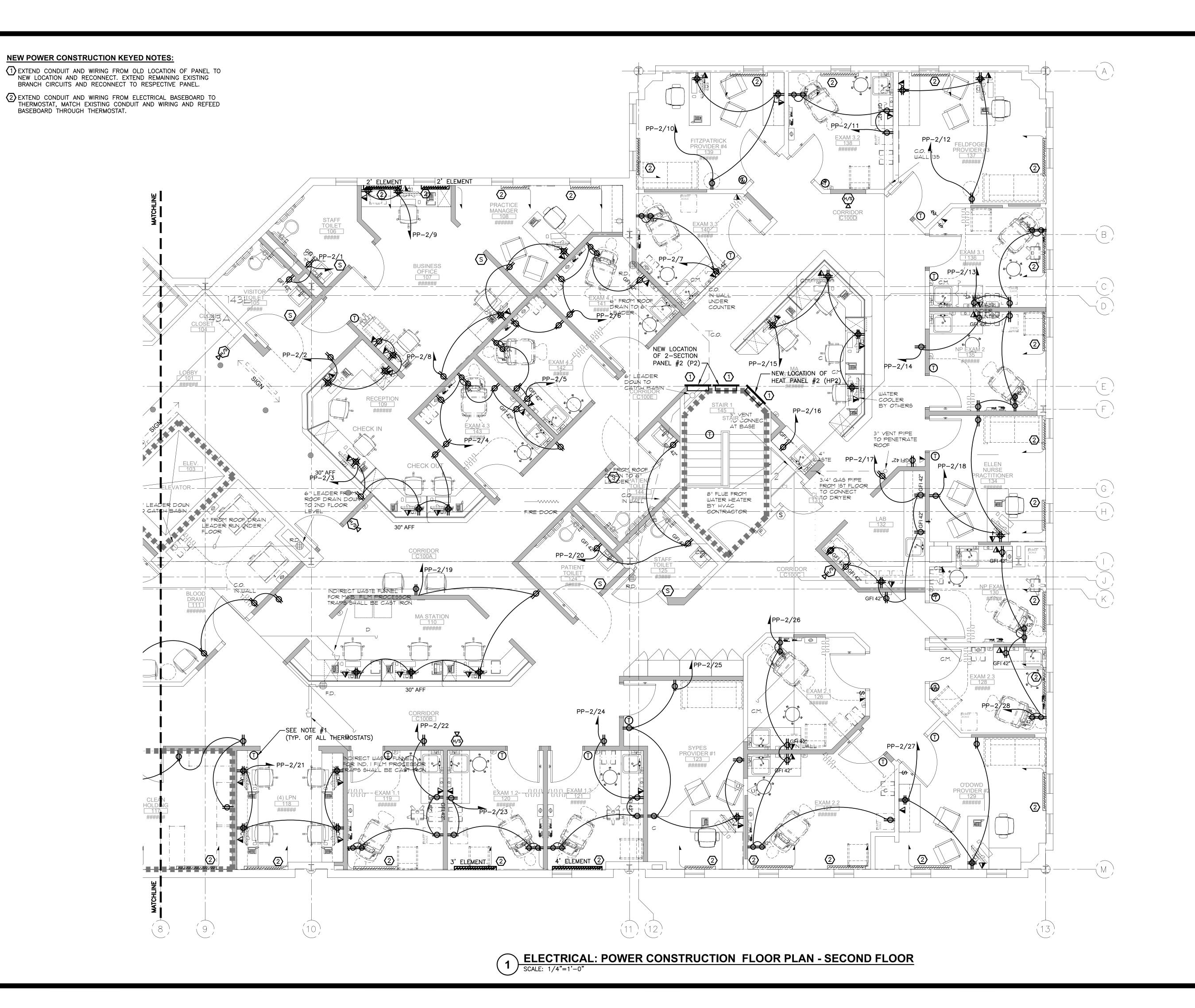


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DRAWING TITLE: ELECTRICAL: POWER CONSTRUCTION FLOOR PLAN - SECOND FLOOR

PROJECT NUMBER 21019 SCALE 3/21/2022 AS NOTED DRAWING NUMBER

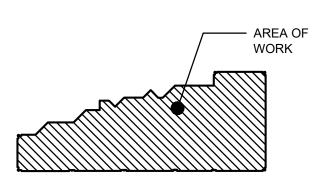


MONTEFIORE HEALTH SYSTEM NYACK CAMPUS

160 NORTH MIDLAND AVENUE NYACK, NY 10960

HIGHLAND MEDICAL PRIMARY HEALTH CLINICS FIRST FLOOR 350 S MAIN ST NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE FIRST FLOOR





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murray-engineering.com murray-engineering.com

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DRAWING TITLE: ELECTRICAL: POWER

CONSTRUCTION FLOOR PLAN - SECOND FLOOR

PROJECT NUMBER 21019

3/21/2022 DRAWING NUMBER

# PP-1/29 M (VIA LC-1) STAIR 3 STAIR 3 A-EM PP-1/26 1 ELECTRIC: LIGHTING CONSTRUCTION FLOOR PLAN - SECOND FLOOR SCALE: 1/4"=1'-0"

### Montefiore

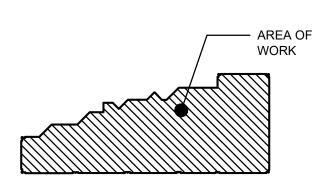
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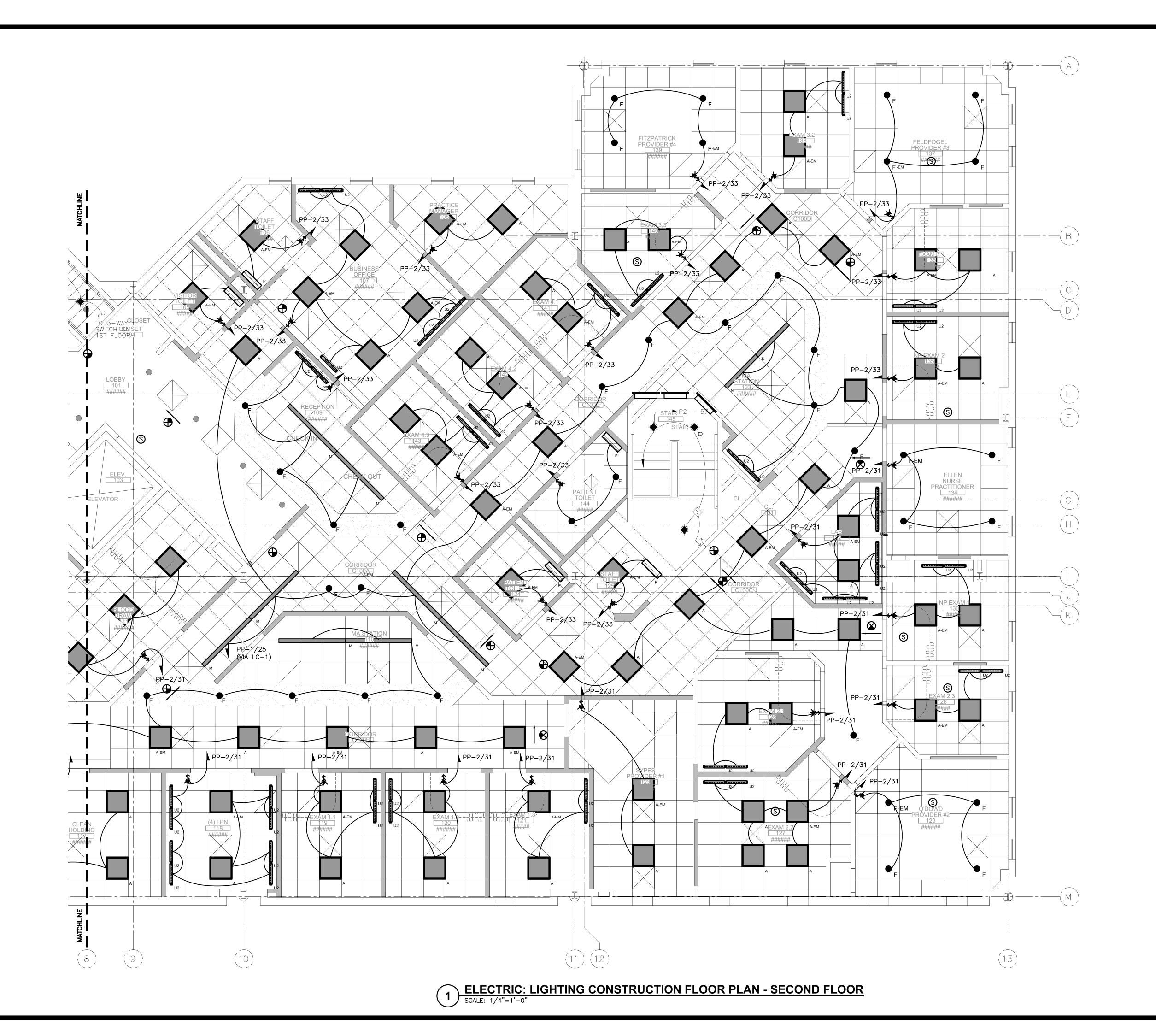
### DRAWING TITLE: **ELECTRICAL: LIGHTING**

CONSTRUCTION FLOOR PLAN - SECOND FLOOR

PROJECT NUMBER 21019

3/21/2022 DRAWING NUMBER

SCALE AS NOTED

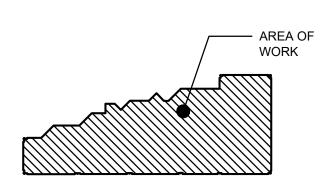


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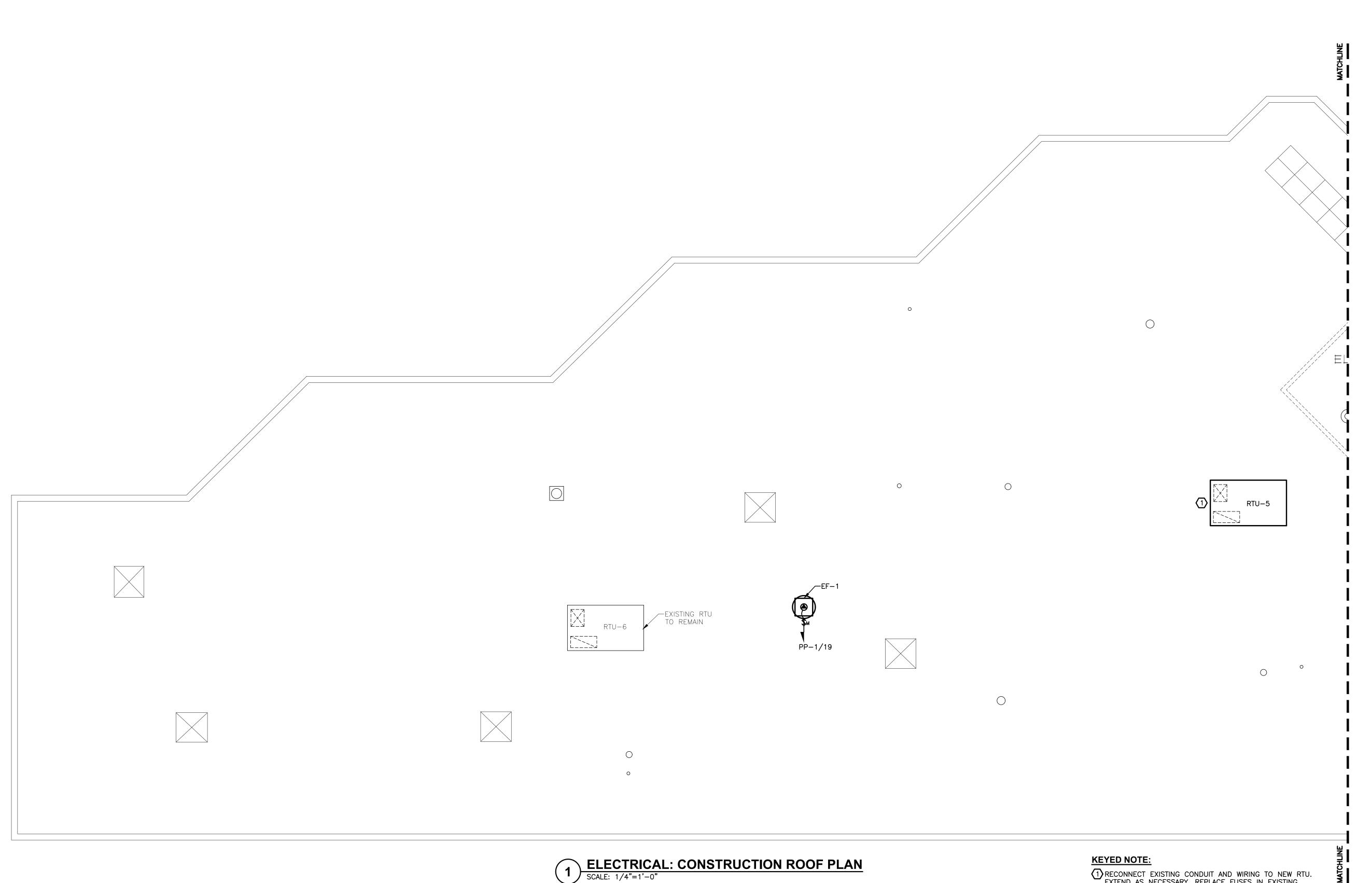
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DRAWING TITLE:

**ELECTRICAL: LIGHTING** CONSTRUCTION FLOOR PLAN - SECOND FLOOR

PROJECT NUMBER 21019

3/21/2022 DRAWING NUMBER SCALE AS NOTED

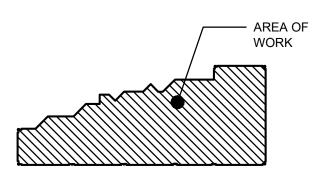


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> DRAWING TITLE: ELECTRICAL: CONSTRUCTION

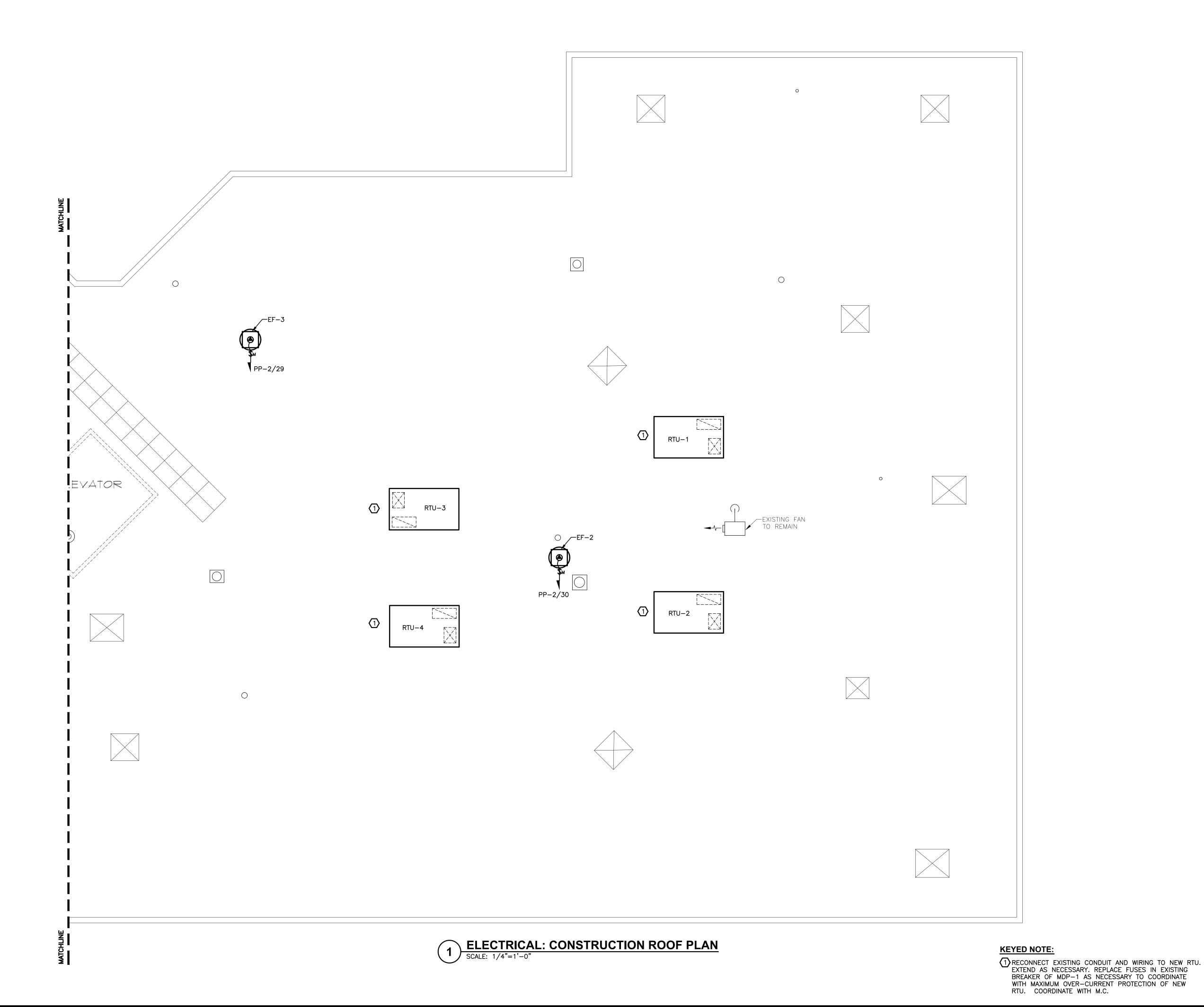
**ROOF PLAN** 

PROJECT NUMBER 21019

> 3/21/2022 DRAWING NUMBER

AS NOTED

RECONNECT EXISTING CONDUIT AND WIRING TO NEW RTU.
EXTEND AS NECESSARY. REPLACE FUSES IN EXISTING
BREAKER OF MDP-1 AS NECESSARY TO COORDINATE
WITH MAXIMUM OVER-CURRENT PROTECTION OF NEW
RTU. COORDINATE WITH M.C.

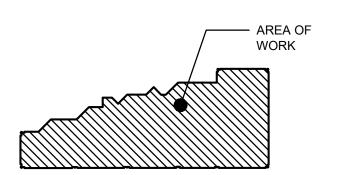


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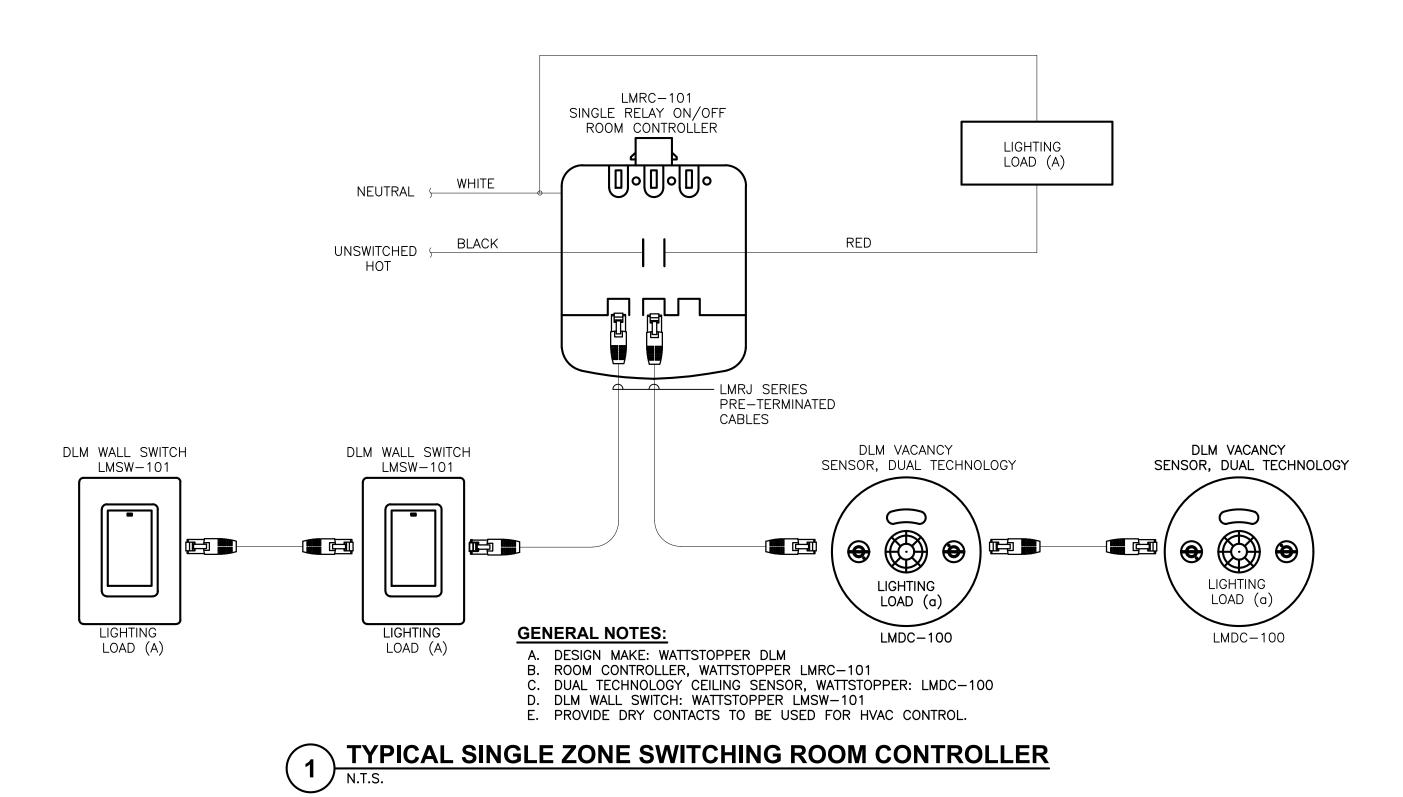
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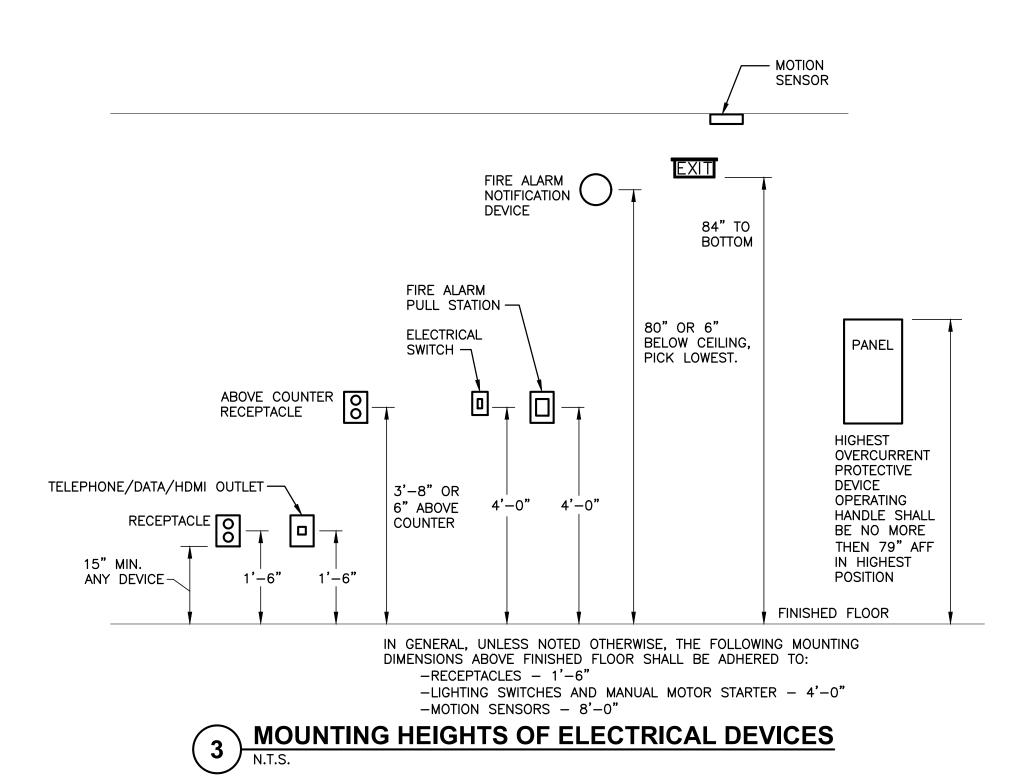
DRAWING TITLE: ELECTRICAL: CONSTRUCTION

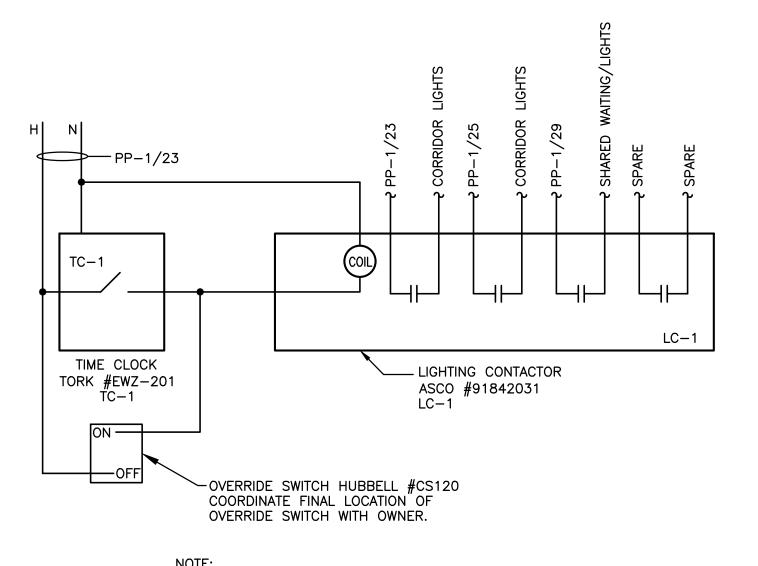
PROJECT NUMBER 21019

DATE 3/21/2022

**ROOF PLAN** 







COORDINATE WITH OWNER FOR HOURS OF OPERATION AND DEMONSTRATE TO THEM ALL TIME CLOCK FUNCTIONS.

2 TIMECLOCK & CONTACTOR DETAIL
N.T.S.

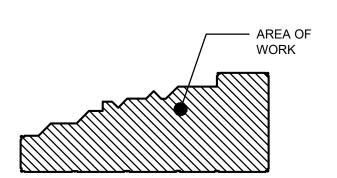
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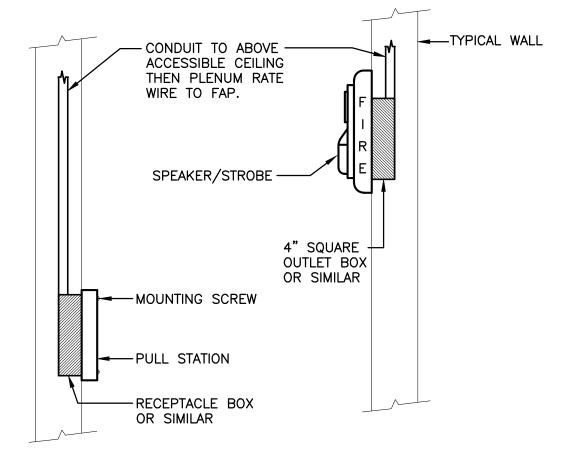
ISSUED DOCUMENTS:

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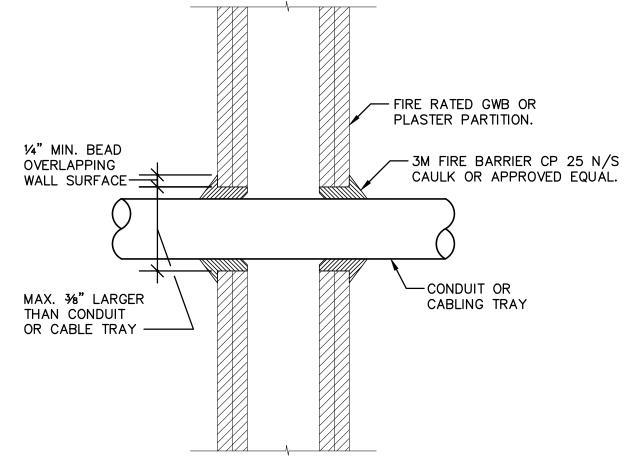
DRAWING TITLE: ELECTRICAL: DETAILS

PROJECT NUMBER DATE SCALE **AS NOTED** 3/21/2022 DRAWING NUMBER

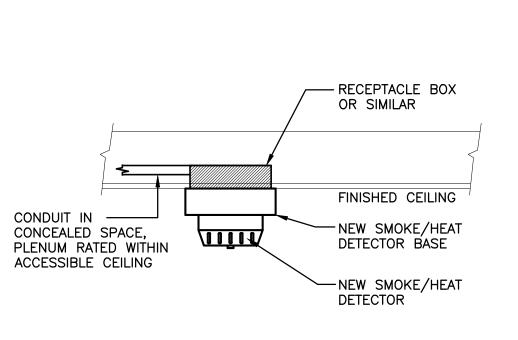


- 1. FOR SURFACE MOUNT INSTALLATIONS, INSTALL WIREMOLD & WIREMOLD RECEPTACLE BOX ONLY AT THE DISCRETION OF THE OWNER.
- 2. THIS DETAIL PERTAINS TO NEW CONSTRUCTION ONLY. WHEN NEW DEVICES ARE BEING INSTALLED WHERE JUNCTION BOXES EXIST ALREADY, UTILIZE THE JUNCTION BOX.

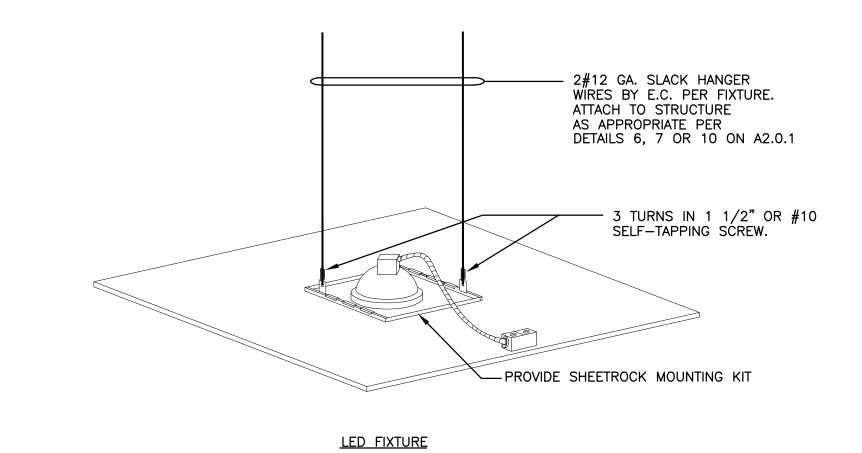
### **TYPICAL PULL STATION & SPEAKER/STROBE DETAIL**



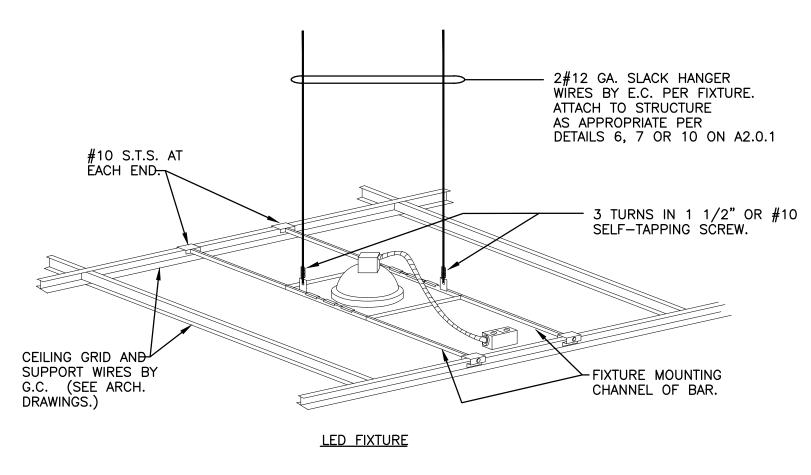




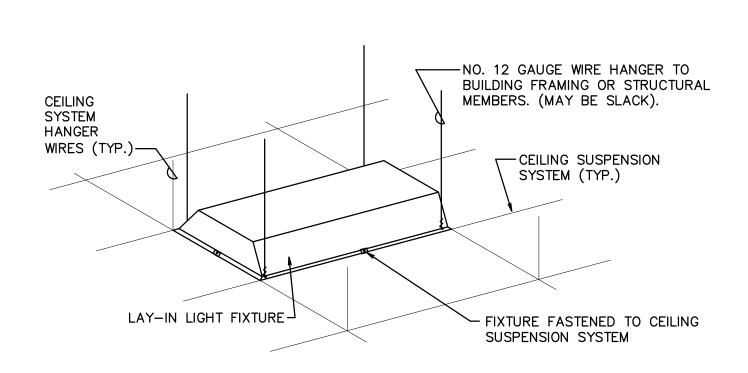
### TYPICAL SMOKE / HEAT DETECTOR DETAIL N.T.S.



### RECESSED FIXTURE MOUNTING DETAIL

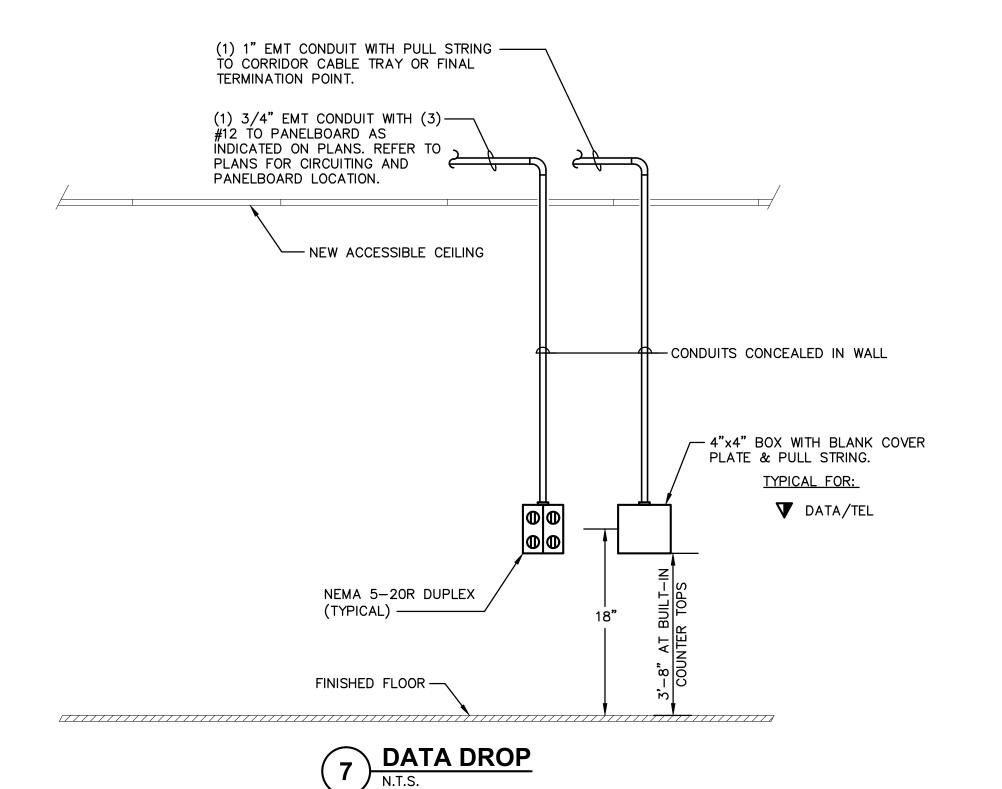






6 LAY-IN LIGHT FIXTURE SUPPORT DETAIL
N.T.S.

SYMBOL	MANUFACTURER	MODEL #	DESCRIPTION	LAMP
A	LITHONIA	2TL2-33L-FW- A19-EZ1-LP835	2'x2' RECESSED LED FIXTURE, 3300 LUMENS, 3500K CCT, 80+CRI, 120-277V, 0-10V DIMMING DRIVER, WITH SQUARE ACRYLIC SHIELDING.	LED 29 WATTS
A-EM		2TL2-33L-FW- A19-EZ1-LP835- E10WLCP	SAME AS ABOVE, WITH INTEGRAL 10W EMERGENCY BATTERY PACK.	
o <sub>F</sub>	HALO	PD6-30-D010B- 835-C	6" ROUND DOWNLIGHT LED 3000 LUMENS, 80+ CRI, 3500K CCT, 120-277V WITH 0-10V DIMMING DRIVER	LED 31.3 WATTS
o <sub>F-EM</sub>		PD6-30-D010B- IEM-835-C	SAME AS ABOVE, WITH INTEGRAL 7W EMERGENCY BATTERY PACK.	
M	MARK LIGHTING	SL4L-LOP-6-FLP- TG-80CRI-35K- 600LMF-MIN1-120-ZT	6' LINEAR LED. 600 LUMENS/FT, 80+ CRI, 3500K CCT, 120-277V, WITH 0-10V DIMMING DRIVER	LED 36 WATTS
M-EM		SL4L-LOP-6-FLP- TG-80CRI-35K-600LMF- MIN1-120-E10-WLCP-ZT	SAME AS ABOVE, WITH INTEGRAL 10W EMERGENCY BATTERY PACK.	
N		SL4L-LOP-4-FLP- TG-80CRI-35K- 600LMF-MIN1-120-ZT	4' LINEAR LED. 600 LUMENS/FT, 80+ CRI, 3500K CCT, 120-277V, WITH 0-10V DIMMING DRIVER	LED 24 WATTS
U4	ACUITY	UPLED22-30K- 90CRI-WH-OC- UDWMOC WH RS	22" LED UNDER CABINET LIGHT. 2400 LUMENS, 3000K CCT, 90+CRI, 120V. PROVIDE WITH UNDER CABINET DIRECT WIRE OCCUPANCY SENSOR MODULE AND ROCKER SWITCH MOUNT UNDERSIDE OF CABINET PER MANUFACTURER'S INSTRUCTIONS.	LED 8.1 WATTS
P	OXYGEN	3-5011-20	18" VANITY LED, 1602 LUMENS, 3000K CCT, 90+ CRI, 120V. PROVIDE WITH POLISHED NICKEL FINISH.	LED 15.5 WATTS



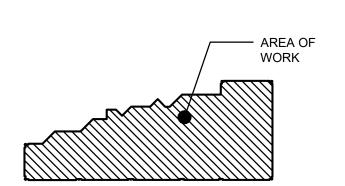
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DRAWING TITLE:

ELECTRICAL: DETAILS

PROJECT NUMBER 21019 DATE SCALE AS NOTED 3/21/2022 DRAWING NUMBER

	LOAD	CONDUCTORS	C.B.	C.B.	CONDUCTORS	LOAD	7
*	LIGHTS IN THERAPY RM	EXISTING CONDUCTORS	20	1 20 20	EXISTING CONDUCTORS	LIGHTS IN JACOUSI AREA	*
*	LIGHTS IN THERAPY RM			3 4 4		LIGHTS IN ELECTRICAL RM	]*
*	LIGHTS IN EXAM RM					LIGHTS IN HALL	<b>]</b> *
*	LIGHTS IN 115 RECEPTION RM			7		LIGHTS	*
*	LIGHTS			9 10		POWER IN EXAM RM	*
*	LIGHTS X-RAY			11 12		POWER IN EXAM RM	]*
*	POWER THERAPY			13 14		POWER JACOUSI	<b>]</b> *
*	POWER THERAPY			15 16		POWER JACOUSI HALL	<b>]</b> *
*	POWER THERAPY			17 18		JACOUSI COUNTER	<b>]</b> *
*	ICE MACHINE			19 20		JACOUSI COUNTER	<b>]</b> *
*	JACOUSI			21 22		SPARE	<b>]</b> *
*	JACOUSI			23 24		DRESS ROOM	<b>]</b> *
*	JACOUSI			25 26		POWER 115	<b> </b> *
*	WASHER			27 28		POWER 116	*
*	DRYER		<b>1</b>	29 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•	HALL LIGHTS	<b> </b> *

### EXISTING DEMO POWER PANEL - 1-SECTION 1 NOTES:

TYPE:	EXISTING
RATING:	200A, 208V/120, 3ø, 4
MAINS:	MLO
<b>ENCLOSURE:</b>	NEMA 1, RECESSED
POLES:	30

	NOTES:
•	1. ALL WIRE SHALL BE DUAL RATED
	THHN/THWN COPPER CONDUCTOR
	UNLESS OTHERWISE NOTED.
	2. ALL CIRCUITS SHALL HAVE FULL
	SIZE INSULATED GREEN GROUND
	UNLESS OTHERWISE NOTED.
	* DISCONNECT AND REMOVE ALL CONDUCTORS.
	LABEL CIRCUIT BREAKER AS 'SPARE'
	AND PREPARE TO RE-CIRCUIT TO NEW LOADS.

ſ	LOAD	CONDUCTORS	C.B.	C.B.	CONDUCTORS	LOAD	
*[	RANGE	EXISTING CONDUCTORS	20	31 1 20	EXISTING CONDUCTORS	HALL POWER	;
*[	RANGE			33 1 34		CANOPY	;
۲ľ	DISHWASHER			35 36		CANOPY	;
ĸГ	COMPACTOR			37 38		ELEVATOR	
۱	REFRIGERATOR			39 40		ELEVATOR	
۱>	POWER KITCHEN			41 42 30		MGB	
۱,	POWER KITCHEN			43		MGB	
۱,	POWER KITCHEN			45 46 20		SYBEY	
:[	POWER KITCHEN			47		SYBEY	
۱۰	POWER KITCHEN			49 150		LIGHTS	:
۱,	HIGH HATS-LIBRARY			51 \ 52		FIRE ALARM	
۱۰	WAITING ROOM LIGHTS			53 154		LIBRARY POWER	
:[	RANGE FAN			55 56		X-RAY POWER	
ľ	EXIT NIGHT LIGHTS			57 58		COOLER	
f	SIGN		1 1	59 60		SECURITY	

## EXISTING DEMO POWER PANEL - 1-SECTION 2 1. ALL WIRE SHALL BE DUAL RATED THAN/THWN COPPER CONDUCTOR THAN/THWN COPPER CONDUCTOR THAN/THAN COPPER CONDUCTOR

TYPE:	EXISTING
RATING:	200A, 208V/120, 3ø, 4'
MAINS:	MLO
<b>ENCLOSURE:</b>	NEMA 1, RECESSED
POLES:	30

UNLESS OTHERWISE NOTED. 2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED. \* DISCONNECT AND REMOVE ALL CONDUCTORS. LABEL CIRCUIT BREAKER AS 'SPARE' AND PREPARE TO RE-CIRCUIT TO NEW LOADS.

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
EXAM 154.1A RECEPT	(2)#12, (1)#12GND, ¾"C	20	1 1 2	20	(2)#12, (1)#12GND, ¾"C	LA TOYA LPN & LAB 152.5A RECEPT
DR ALVAREZ 155.2A RECEPT			<del> </del> ³∽₩∽⁴			EXAM 156.1A RECEPT
DR FERGUSON 158.2A RECEPT			<del>│</del> ⁵○╫ <mark>┼</mark> ○╚			EXAM 157.1A RECEPT
EXAM 159.1A RECEPT			<del>┍</del> ┷╅╅ ┡┸╱╅╫╱┋			EXAM 160.1A RECEPT
EXAM 161.1A RECEPT			<u>}°</u>			MA STATION 150.1A RECEPT
MA/CORRIDOR/WAITING RECEPT			110H1012			STAFF TOILET 149.3A & 148.3A
SUPERVISOR OFFICE/RECEPTION RECEPT			<del> 13</del>			RECEPTION 146.2A RECEPT
SHARED WAITING RECEPT			15 <del>    1</del> 5 16			STAFF LOUNGE 116.1A RECEPT
STAFF FRIDGE			117			STAFF LOUNGE MICROWAVE
EF-1	•		<del>119</del>			I.T. 114.1A RECEPT
SPARE			21 <del>    22</del>			CLEAN HOLDING 117.1A RECEPT
TC-1 & CORRIDOR LIGHTS	(2)#12, (1)#12GND, ¾"C		23			PATIENT TOILET 112.3A RECEPT
CORRIDOR LIGHTS			<sup>25</sup>	1	•	WEST LIGHTS
BLOOD DRAW 11.5A RECEPT			27 28	20		SPARE
SHARED WAITING LIGHTS		1	29 \ \			<b>I</b>

### **EXISTING REVISED POWER PANEL - 1-SECTION 1** NOTES: 1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR

		THHN/THWN COPPER CONDUCTOR
TYPE:	EXISTING	UNLESS OTHERWISE NOTED.
RATING:	200A, 208V/120, 3ø, 4W	2. ALL CIRCUITS SHALL HAVE FULL
MAINS:	MLO	SIZE INSULATED GREEN GROUND
<b>ENCLOSURE:</b>	NEMA 1, RECESSED	UNLESS OTHERWISE NOTED.
POLES:	30	UNLESS UTHERWISE NUTED.

LOAD	CONDUCTORS	C.B.	CONDUCTORS	LOAD
SPARE		$20 \frac{31}{1} \frac{32}{1} \frac{32}{20}$		SPARE
		33		
		35 1 36	•	v
		37 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	EXISTING CONDUCTORS	ELEVATOR
		39 40		ELEVATOR
		41 42		MGB
		43 44		MGB
		45 46		SYBEY
		47		SYBEY
		49 50		•
		51 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		FIRE ALARM
		53 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		LIBRARY POWER
•	<b>1</b>	55 55		X-RAY POWER
EXIT NIGHT LIGHTS	EXISTING CONDUCTORS	57 58		COOLER
SIGN		59 60	•	SECURITY

### EXISTING REVISED POWER PANEL - 1-SECTION 2 NOTES:

TYPE:	EXISTING
RATING:	200A, 208V/120, 3ø, 4W
MAINS:	MLO
<b>ENCLOSURE:</b>	NEMA 1, RECESSED
POLES:	30

1. ALL WIRE SHALL BE DUAL RATED
THHN/THWN COPPER CONDUCTOR
UNLEŚS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL
SIZE INSULATED GREEN GROUND
UNLESS OTHERWISE NOTED.

	LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD	
*	LIGHTS 101	EXISTING CONDUCTORS	20	1 1 2	20	EXISTING CONDUCTORS	LIGHTS 137, 138, 136	
*	LIGHTS 104			<del>3</del>			CAST STORAGE	7
*	LIGHTS 106			<del> </del> ⁵○₩○≗			LIGHTS BY 133	٦
*	LIGHTS DRESSING ROOM			<del> </del> ₹○₩○₿			RECEPTION	٦
*	LIGHTS MAIN HALL			9 10			POWER	7
*	LIGHTS ROBERTA FILES						BATHROOM	٦
*	POWER FILE			13 14			FILE ROOM	٦
*	BUS OFFICE S/W			15 16			DARK ROOM	٦
*	FILES + SIGN						DARK ROOM	٦
*	POWER FILE			19 19 20			COPY MACHINE	٦
*	POWER FILE			21 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			POWER RECEPTION	٦
*	POWER ROBERTA			23 1 24			CAST STORAGE	٦
*	POWER CAST			25 4 26			XRAY	٦
*	SUPPLY			27 28			XRAY	7
*	CAST 107	<b>V</b>	<b>→</b>	29 \ \30		•	CAST 110	٦

### EXISTING DEMO POWER PANEL - 2-SECTION 1 1. ALL WIRE SHALL BE DUAL RATED

TYPE: RATING:	EXISTING	THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
MAINS: ENCLOSURE: POLES:	200A, 208V/120, 3ø, 4W MLO NEMA 1, RECESSED 30	2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.
TOLLS.	30	* DISCONNECT AND REMOVE ALL CONDUCTORS. LABEL CIRCUIT BREAKER AS 'SPARE' AND PREPARE TO RE—CIRCUIT TO NEW LOADS.

	LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD	7
*	POWER	EXISTING CONDUCTORS	20	31 🔿	π <sup>32</sup> 20	EXISTING CONDUCTORS	139 BATHROOM	7,
*	POWER 104			33 🖳	34		TOILET	7,
*	POWER 105			35 🖳	36		POWER HALL	7:
	CANOPY			37 (	38		EXISTING LOAD	7
	CANOPY			<u></u> 39 ∕ -	40		CALL SYSTEM	7
	CANOPY			<u> </u>	42		POWER ELECTRIC RM	1
	POLE			43	H ~ 44		POWER ELECTRIC RM	1
	POLE			45	46		POWER ELECTRIC RM	1
	POLE			<b>┦</b> ₽7/\-	48		POWER 102	1
	POLE			49	50		POWER 101	٦
*	COPIER/PRINTER/FAX			51	52		POWER 135	٦
*	LIGHTS NEAR POSTAGE			53 🖳	54		POWER 136	7
	LIGHTS			55 🕕	56		POWER 138	7
	LIGHTS			<u>  57</u>	58		EXISTING LOAD	1
	BOILER	•	1	<u></u>	60	•	ACCENT LIGHTS + CANOPY LIGHTS	; ]

### EXISTING DEMO POWER PANEL - 2-SECTION 2 NOTES: 1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR

TYPE:	EXISTING
RATING:	200A, 208V/120, 3ø, 4W
MAINS:	MLO
<b>ENCLOSURE:</b>	NEMA 1, RECESSED
POLES:	30

UNLESS OTHERWISE NOTED. 2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED. \* DISCONNECT AND REMOVE ALL CONDUCTORS. LABEL CIRCUIT BREAKER AS 'SPARE' AND PREPARE TO RE-CIRCUIT TO NEW LOADS.

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
TOILET 105/106 RECEPT	(2)#12, (1)#12GND, ¾°C	20		20	(2)#12, (1)#12GND, ¾"C	RECEPTION 109 & 107 RECEPT
RECEPTION 109 RECEPT			<del></del> ]³╱╫╢╱┵	-		EXAM 143 RECEPT
EXAM 142 RECEPT			<del>┡</del> ╱╫╋╱╩			EXAM 141 RECEPT
EXAM 140 RECEPT			<del>┍</del> ┸╱╫╱╸			OFFICE 107 & 108 RECEPT
BUSINESS OFFICE 107 RECEPT			<u> </u>			FITZPATRICK PROVIDER 139 RECEPT
EXAM 138 RECEPT			<u>  11                                  </u>	-		FITZPATRICK PROVIDER 137 RECEPT
EXAM 136 RECEPT			<del> 13</del>			EXAM 135 RECEPT
MA STATION 133 RECEPT			<u>  15                                   </u>			MA STATION 133 GFI RECEPT
LAB 132 RECEPT			<u> 17○  </u>   <u>18</u>			ELLEN NURSE PRACT. 134 RECEPT
MA STATION 110 RECEPT			<del>119</del>			TOILET 124, 125, 144 RECEPT
LPN 118 RECEPT			$1^{21}$			EXAM 119 RECEPT
EXAM 120 RECEPT			<sup>23</sup>			EXAM 121 RECEPT
SYPES PROVIDER 123 RECEPT			25 4 26			EXAM 126 & 127 RECEPT
O'DOWD PROVIDER 129 RECEPT			27 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			EXAM 128 & 130 RECEPT
EF-3			29 \ \30		<u></u>	EF-2

### **EXISTING REVISED POWER PANEL - 2-SECTION 1**

<b>NG REVI</b>	SED POWER PANEL - 2-SECTION 1	NOTES:
TYPE: RATING: MAINS: ENCLOSURE: POLES:	EXISTING 200A, 208V/120, 3ø, 4W MLO NEMA 1, RECESSED 30	<ul><li>1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.</li><li>2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.</li></ul>

LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD
EAST LIGHTS	(2)#12, (1)#12GND, ¾"C	20	31 1 32	20		SPARE
EAST LIGHTS	<b>I</b>		] <del>33</del>			SPARE
SPARE			$\begin{array}{c c} \hline  & 35 \\ \hline  & 36 \\ \hline  & 36$			SPARE
CANOPY	EXISTING CONDUCTORS		] <del>37</del>		EXISTING CONDUCTORS	EXISTING LOAD
CANOPY			<u> </u> 39			CALL SYSTEM
CANOPY			741 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			POWER ELECTRIC RM
POLE			<u>}43</u>			POWER ELECTRIC RM
POLE			745 <del>                                     </del>		•	POWER ELECTRIC RM
POLE			<del> 47</del>			SPARE
POLE	<b>V</b>		<del> 49</del>			SPARE
SPARE						SPARE
SPARE			<u>  53</u>			SPARE
SPARE			<u>  55</u>			SPARE
LIGHTS	EXISTING CONDUCTORS		] <del>57</del>		EXISTING CONDUCTORS	EXISTING LOAD
BOILER	EXISTING CONDUCTORS	<b>T</b>		<b>+</b>	•	ACCENT LIGHTS + CANOPY LIGHTS

### EXISTING REVISED POWER PANEL - 2-SECTION 2 1. ALL WIRE SHALL BE DUAL RATED

TYPE: RATING: MAINS: ENCLOSURE:	EXISTING 200A, 208V/120, 3ø, 4W MLO NEMA 1. RECESSED
ENCLOSURE:	NEMA 1, RECESSED
POLES:	30

THHN/THWN COPPER CONDUCTOR UNLEŚS OTHERWISE NOTED. 2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

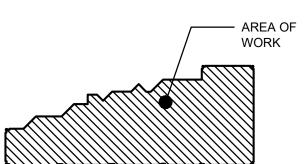
### Montefiore

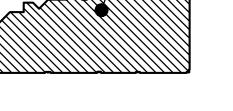
MONTEFIORE HEALTH SYSTEM NYACK CAMPUS

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HIGHLAND MEDICAL PRIMARY HEALTH CLINICS FIRST FLOOR 350 S MAIN ST NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE FIRST FLOOR







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### STRUCTURAL ENGINEER

MURRAY ENGINEERING PC



ISSUED F	03.10.2022	1

SEAL	
T IS A VIOLATION OF THE LAW FOR ANY	
PERSON, UNLESS ACTING UNDER THE	
DIRECTION OF A LICENSED ARCHITECT, TO	
ALTER THIS DOCUMENT IN ANY WAY. IF	
ALTERED, THE ALTERING ARCHITECT SHALL	
AFFIX HIS SEAL AND THE NOTATION "ALTERED	
BY" FOLLOWED BY HIS SIGNATURE AND THE	
DATE OF SUCH ALTERATION, AND A SPECIFIC	
DESCRIPTION OF THE ALTERATION.	

### DRAWING TITLE: ELECTRICAL: SCHEDULES

PROJECT NUMBER 21019	
3/21/2022	SCALE AS NOTED
DRAWING NUMBER	

### PLUMBING DEMOLITION NOTES:

- 1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT AREAS TO BE DEMOLISHED.
- 2. REMOVE ALL EQUIPMENT AND PIPING AS INDICATED ON PLAN. REMOVALS SHALL INCLUDE ALL FITTINGS, SUPPORTS AND HANGERS.
- 3. ANY DISCREPANCIES BETWEEN THE DEMOLITION PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER. ANY DEMOLITION WORK WHICH MAY BE QUESTIONABLE DUE TO UNFORESEEN FIELD CONDITIONS SHALL NOT BE REMOVED UNTIL REVIEWED BY THE ARCHITECT, ENGINEER OR BUILDING FACILITIES MANAGER.
- 4. DEMOLITION WORK SHALL INCLUDE THE PREPARATION OF EXISTING EQUIPMENT OR PIPING FOR CONNECTION TO NEW WORK. COORDINATE DEMOLITION WORK WITH THE CONSTRUCTION PLANS.
- 5. ALL EQUIPMENT REMOVALS SHALL BECOME THE PROPERTY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF DEMOLITION ITEMS OFF-SITE, UNLESS OTHERWISE NOTED.
- 6. ALL CUTTING AND PATCHING NECESSARY FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 7. IT SHALL BE THE OWNER'S RESPONSIBILITY TO REMOVE ANY LOOSE EQUIPMENT, FURNITURE, SUPPLIES, ETC. THAT MAY BE LOCATED IN THE AREA OF WORK.
- 8. THE PLANS ARE INTENDED TO CONVEY THE EXTENT AND SCOPE OF THE DEMOLITION WORK. EVERY ITEM INTENDED FOR REMOVAL MAY NOT BE SHOWN. THE CONTRACTOR IS ADVISED TO SURVEY THE PROJECT SITE BEFORE SUBMITTING A BID FOR DEMOLITION WORK.

### **GENERAL NOTES:**

- 1. THE DRAWINGS ON THESE PLANS ARE DIAGRAMMATIC. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH OTHER TRADES AND THE BUILDING STRUCTURE. NO EXTRA PAYMENTS WILL BE AUTHORIZED FOR REROUTING OR REMOVAL OF INSTALLED WORK DUE TO LACK OF COORDINATION WITH OTHER
- 2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS. FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF HIS WORK.
- 3. THIS CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS AS REQUIRED WHERE ACCESSIBILITY TO COMPONENTS (VALVES, TRAPS, CLEANOUTS, ETC.) IS REQUIRED FOR MAINTENANCE AND/OR SYSTEM OPERATION.
- 4. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
- 5. ALL PENETRATIONS THROUGH FOUNDATIONS AND EXTERIOR WALLS SHALL BE SEALED WITH EDPM OR EDPM RUBBER GASKET AND SEALED WITH A WATERPROOF, NON-HARDENING SEALANT.
- 6. FURNISH AND INSTALL UNDER SINK PROTECTIVE PIPE COVER KITS ON EXPOSED PIPING AT ALL ADA ACCESSIBLE SINKS AND LAVATORIES.
- 7. COORDINATE FIXTURE ROUGH-INS AND INSTALLATIONS WITH THE ARCHITECTURAL PLANS.
- 8. ALL EXPOSED DOMESTIC WATER DISTRIBUTION PIPING IS TO BE INSULATED.
- 9. PROVIDE SHUT-OFF VALVES AT ALL BRANCH PIPING TAKE-OFFS (UNO) AND AT ALL CONNECTIONS TO EQUIPMENT, PROVIDE UNIONS AT ALL EQUIPMENT CONNECTIONS.
- 10. PROVIDE DRAINS WITH HOSE ADAPTERS AND CAPS ON PIPING AT ALL LOW POINTS. PROVIDE MANUAL VENTS ON PIPING AT ALL HIGH
- 11. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR.
- 12. ALL REQUIRED MOTOR STARTERS SHALL BE FURNISHED BY THIS CONTRACTOR AND INSTALLED BY THE E.C.
- 13. ALL REQUIRED CONTROL EQUIPMENT AND WIRING SHALL BE FURNISHED & INSTALLED BY THIS CONTRACTOR.
- 14. WHERE INSTALLATION OR REMOVAL OF BELOW-SLAB PIPING IS INDICATED IN EXISTING CONCRETE SLAB, THIS CONTRACTOR SHALL SAW-CUT AND EXCAVATE THE EXISTING SLAB AS REQUIRED. UPON COMPLETION OF WORK, THIS CONTRACTOR SHALL PATCH THE CONCRETE SLAB. FLOOR FINISH WORK BY G.C.
- 15. THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- 16. CONTRACTOR SHALL PROVIDE ALL COMPONENTS INDICATED ON DETAIL SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE AND WORKABLE SYSTEM.
- 17. CONTRACT CLOSE OUT: IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT; DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL
- 18. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE ALTERATIONS AND/OR NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.

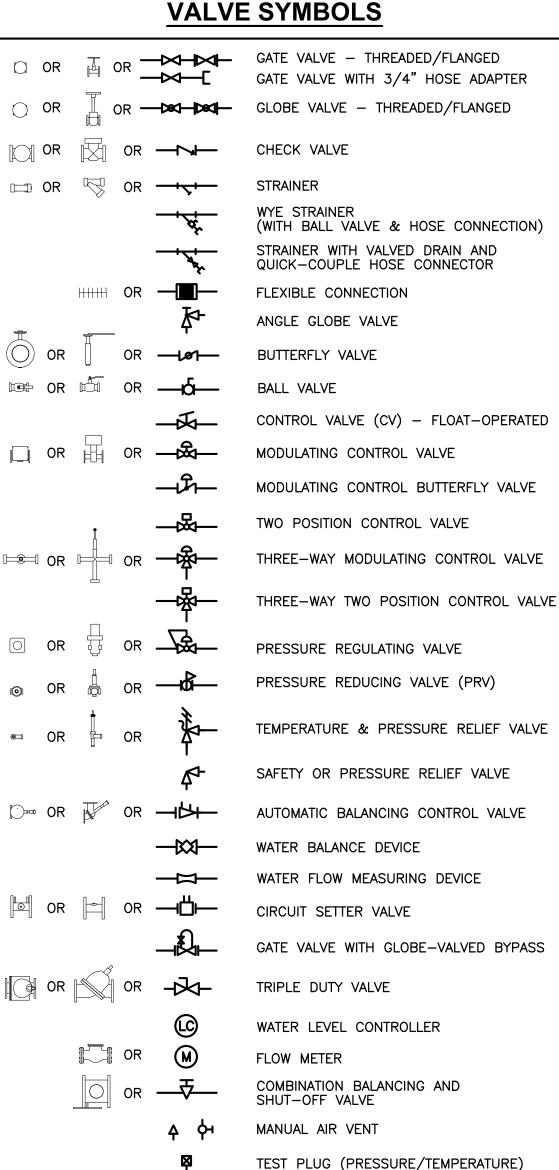
### **GENERAL PLUMBING NOTES:**

- 1. DRAIN PIPING SHOWN ON PLANS SHALL BE INSTALLED BELOW THE FLOOR SHOWN (BELOW SLAB OR ABOVE CEILING OF LOWER FLOOR AS APPROPRIATE) UNLESS OTHERWISE NOTED.
- 2. ALL PLUMBING SUPPLY & VENT PIPING SHOWN SHALL BE INSTALLED IN THE CEILING OF THE FLOOR PLAN SHOWN, UNLESS OTHERWISE
- 3. PLUMBING CONTRACTOR IS RESPONSIBLE FOR OWN CUTTING & PATCHING AS REQUIRED. FINISHING SHALL BE BY GENERAL
- 4. VENT PIPING UNDER SLABS SHALL BE A MINIMUM OF 2".
- 5. WASTE PIPING UNDER SLABS SHALL BE A MINIMUM OF 3".
- 6. ALL PLUMBING FIXTURES AND TRIM SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, AS WELL AS ALL ADA AND ANSI-A-117.1 REQUIREMENTS.
- 7. INSTALL CONDENSATION CONTROL INSULATION: MINIMUM 1"-INCH THICK FOR ALL PIPE SIZES.
- 8. HOT & HOT WATER RETURN PIPING SHALL BE INSULATED PER WRITTEN SPECIFICATIONS AND NYS ENERGY CONSERVATION CONSTRUCTION CODE.
- 9. PLUMBING CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ROOF DRAINS AND FOR ADDITIONAL ROOF DRAIN WORK NOT SHOWN ON PLUMBING DRAWING.
- 10. ROOF LEADERS MUST BE CONVEYED INDEPENDENTLY FROM SANITARY SEWER SYSTEMS, (STORM DRAIN SHALL NEVER TIE INTO SANITARY SEWER SYSTEM).
- 11. UNLESS OTHERWISE NOTED, ALL VALVES 2"0 & SMALLER SHALL BE QUARTER-TURN BALL VALVES AND ALL VALVES 2½" & LARGER SHALL BE GATE VALVES. ALL VALVES SHALL BE OF FULL-PORT
- 12. PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED & PAY ALL FEES.

DESIGN.

13. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.

### **VALVE SYMBOLS**



PLUG VALVE

LUBRICATED PLUG VALVE

### **ARRDEVIATIONS**

	<u>ABBREVIATIONS</u>
Α	MEDICAL AIR
ACT	ACOUSTIC CEILING TILE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AW	ACID WASTE PIPE
BTUH	BRITISH THERMAL UNITS/HOUR
CLG	CEILING
CO	CLEAN OUT
CP	CONDENSATE PUMP
CW	DOMESTIC COLD WATER
DIA	DIAMETER
D	DRAIN
DN	DOWN
DP	DIFFERENTIAL PRESSURE
	ELECTRICAL CONTRACTOR
ECC	ENGINEERING CONTROL CENTER
EMD	END OF MAIN DRIP (STEAM)
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
	EXISTING
	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FLR.	FLOOR
FPC	
G.C.	
GPH	GALLONS PER HOUR
GPM C SAN	GALLONS PER MINUTE
G.SAN H.C.	"GREASE LADEN" SANITARY DRAINAGE PIPE HVAC CONTRACTOR
n.c. HP	HORSE POWER
LITHE	LUCK TEMP HOT WATER RETURN RIPE (4.40°C)
HTWS	HIGH TEMP HOT WATER PIPE (140°F)
HW	DOMESTIC HOT WATER PIPE (120°F)
HWR	DOMESTIC HOT WATER RETURN PIPE (120°F)
LBS/HR	HIGH TEMP. HOT WATER RETURN PIPE (140°F) HIGH TEMP. HOT WATER PIPE (140°F) DOMESTIC HOT WATER PIPE (120°F) DOMESTIC HOT WATER RETURN PIPE (120°F) POUNDS PER HOUR
LF ´	LINEAR FEET
MAX	MAXIMLIM
MBH	ONE THOUSAND BTUH MECHANICAL EQUIPMENT ROOM MINIMUM
MER	MECHANICAL EQUIPMENT ROOM
MIN.	MINIMUM
MV	MEDICAL VACUUM
NOM.	NOMINAL
0	OXYGEN
Р	PUMP
P.C.	PLUMBING CONTRACTOR PRESSURE DROP (FEET OF WATER) PRESSURE REDUCING VALVE POUNDS PER SQUARE IN. SANITARY DRAINAGE PIPE STAINLESS STEEL
PD	PRESSURE DROP (FEET OF WATER)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE IN.
SAN	SANITARY DRAINAGE PIPE
S.S.	STAINLESS STEEL
31	STORM DRAINAGE FIFE
UH	UNIT HEATER
U.N.U.	UNLESS NOTED OTHERWISE VENT PIPE
V VI	VENT PIPE VIBRATION ISOLATOR
	VERIFY IN FIELD
	VERIFY IN FIELD  VENT THROUGH ROOF
WCO	WALL CLEAN OUT
WEO	WATER FILTER
	WATER FLOW MEASURING DEVICE
WH	WATER HEATER
****	THE CONTRACTOR OF THE CONTRACT

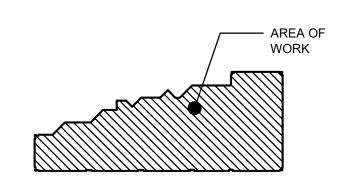
### Montefiore

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**KEY PLAN: NOT TO SCALE** FIRST FLOOR





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# ISSUED DOCUMENTS:

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DRAWING TITLE: PLUMBING: SYMBOLS,

**ABBREVIATIONS & NOTES** 

3/21/2022	SCALE AS NOTED
DRAWING NUMBER	7.0.1.0.1
	1

PROJECT NUMBER

COMPLIANCE WITH THE 2020 UNIFORM CODE.

PLUMBING LINE TYPES

-/-/-/-/-/- EXISTING TO BE REMOVED

———— ACID WASTE LINE

—·— COLD WATER SUPPLY

EXISTING TO REMAIN

COMPRESSED AIR

CONDENSATE DRAIN

· — HOT WATER RETURN

INDIRECT WASTE

MEDICAL VACUUM

NITROUS OXIDE

OXYGEN LINE

SANITARY LINE

STORM LINE

MEDICAL AIR

—··— ·· HOT WATER SUPPLY

----- NITROGEN

DRINKING WATER RETURN

DRINKING WATER SUPPLY

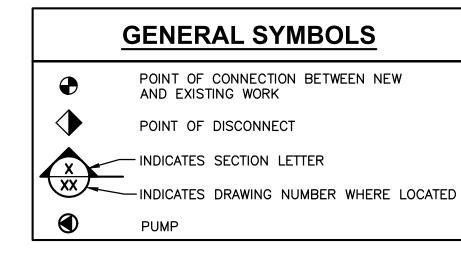
**UNIFORM CODE STATEMENT:** TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN

### LEGEND AND SCHEDULE OF PLUMBING EQUIPMENT MANUFACTURER | CATALOG # SYMBOL **DESCRIPTION** WALL-MOUNTED WATER CLOSET WITH DIRECT FEED SIPHON JET ACTION, ELONGATED BOWL, 1½" TOP INLET SPUD, VITREOUS CHINA, FLUSHES ON 1.6 GALLONS, WHITE COLOR. PROVIDE WITH BATTERY POWERED, SENSOR ACTIVATED ELECTRONIC DUAL FLUSH FLUSHOMETER (MODEL 6065.161), OPEN FRONT SEAT LESS COVER, AMERICAN STANDARD 3351.660 ADJUSTABLE CHAIR CARRIER, SUPPLY STOPS, AND ALL OTHER HARDWARE REQUIRED FOR A COMPLETE INSTALLATION. FIXTURE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI-A-117.1 (LATEST EDITION) & ADA <u>WC-1</u> REQUIREMENTS TO FACILITATE ACCESS FOR THE PHYSICALLY HANDICAPPED. WALL—MOUNT BATHROOM SINK, VITREOUS CHINA, ADA COMPLIANT. PROVIDE WITH AMERICAN STANDARD MODEL 0355.012 AMERICAN STANDARD 6055105.002 DECK MOUNT FAUCET AND THERMOSTATIC MIXING VALVE. PROVIDE ALL OTHER HARDWARE <u>S-1</u> REQUIRED FOR A COMPLETE INSTALLATION. (GOURMET — LUSTERTONE) TOP MOUNT SINGLE BOWL SINK, 304 STAINLESS STEEL, SATIN FINISH, 18 GAUGE. SINK DIMENSIONS: 19"x18"x5½", 3½" REAR CENTER DRAIN. PROVIDE ALL OTHER HARDWARE REQUIRED FOR A ELKAY LRAD191855 COMPLETE INSTALLATION. FIXTURE SHALL BE INSTALLED IN ACCORDANCE WITH ANSI-A-117.1 (LATEST EDITION)

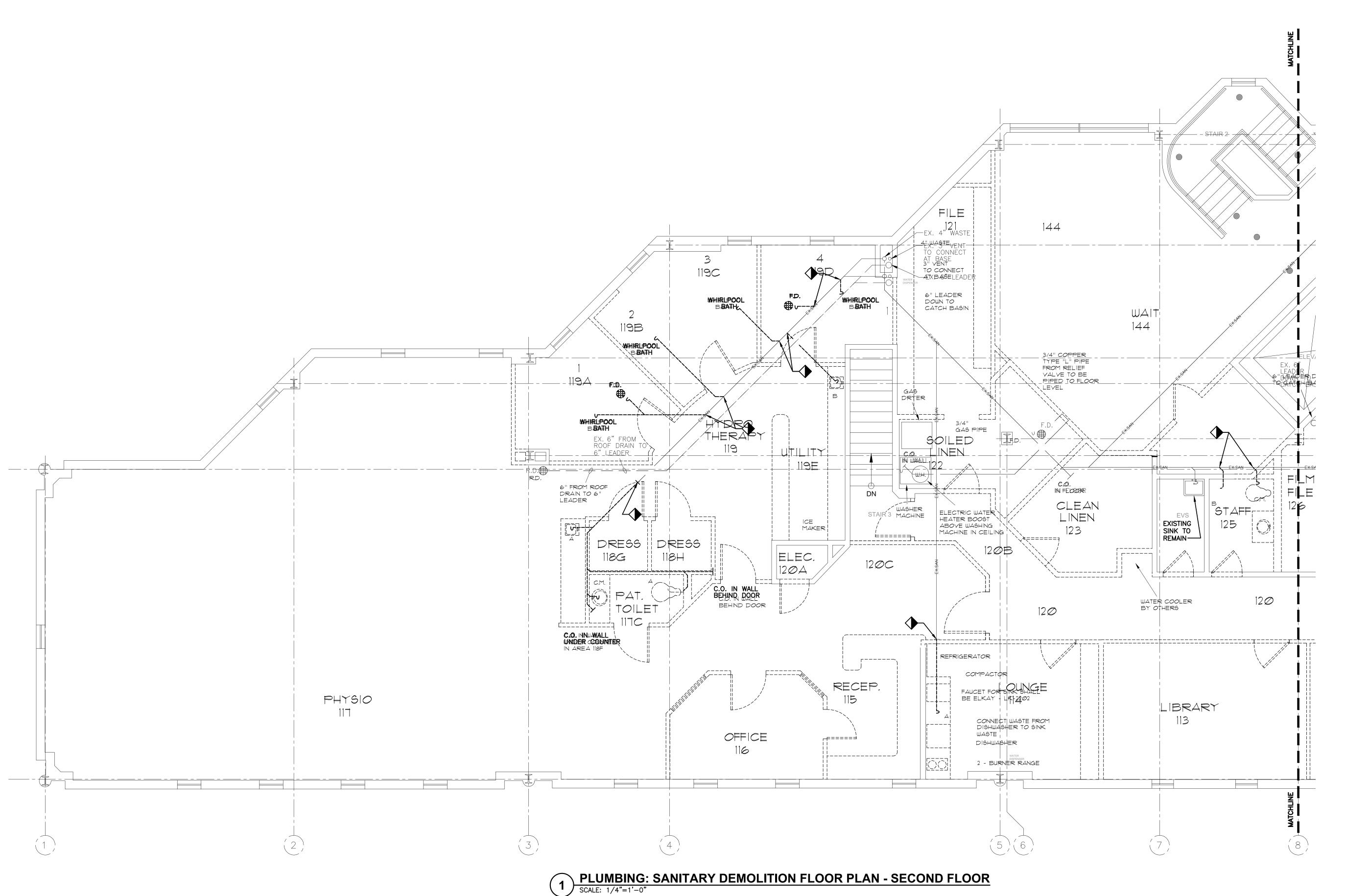
& ADA REQUIREMENTS TO FACILITATE ACCESS FOR THE PHYSICALLY HANDICAPPED.

### PIPING SYMBOLS → DIRECTION OF FLOW ANCHOR — PIPE GUIDE ECCENTRIC REDUCER — TOP CONNECTION, 45° OR 90° — BOTTOM CONNECTION, 45° OR 90° - SIDE CONNECTION CAPPED OUTLET PIPE DOWN TURN PIPE RISE — UNION DIRECTION OF PIPE PITCH (DOWN)

○ OR — Ū



### VACUUM LINE ----- VENT PIPE ————— WATER LINE **ENERGY CODE STATEMENT:** TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

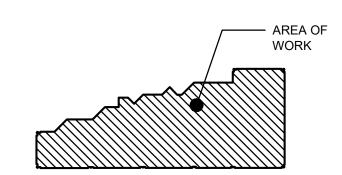


MONTEFIORE HEALTH SYSTEM NYACK CAMPUS

160 NORTH MIDLAND AVENUE NYACK, NY 10960

HIGHLAND MEDICAL PRIMARY HEALTH CLINICS FIRST FLOOR 350 S MAIN ST NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE FIRST FLOOR





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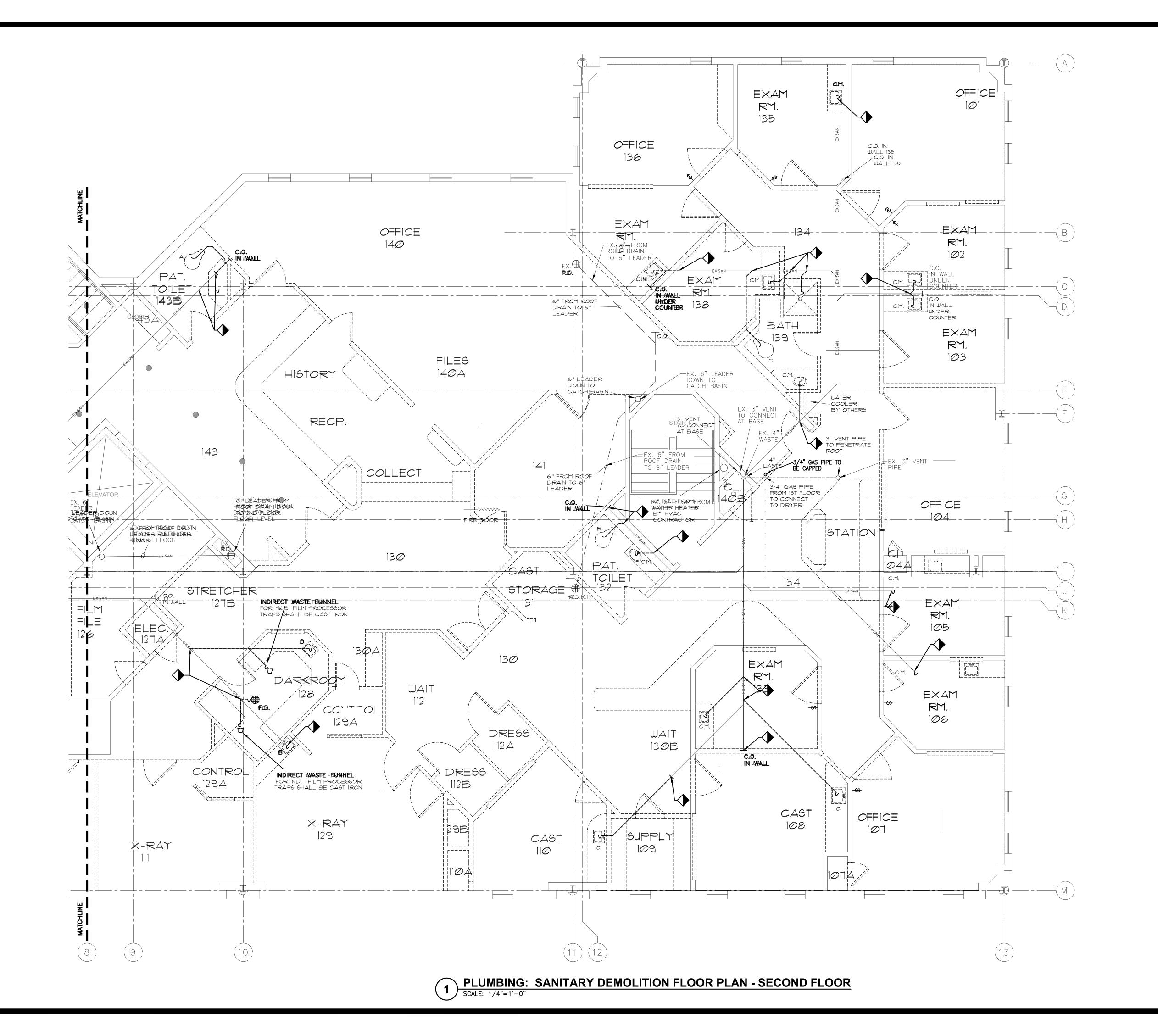
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DRAWING TITLE: PLUMBING: SANITARY DEMOLITION FLOOR

PLAN - SECOND FLOOR PROJECT NUMBER 21019 DATE SCALE AS NOTED

3/21/2022 DRAWING NUMBER

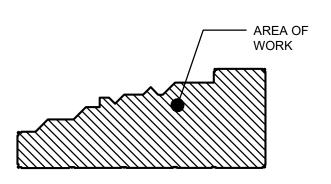


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### DRAWING TITLE:

PLUMBING: SANITARY DEMOLITION FLOOR PLAN - SECOND FLOOR

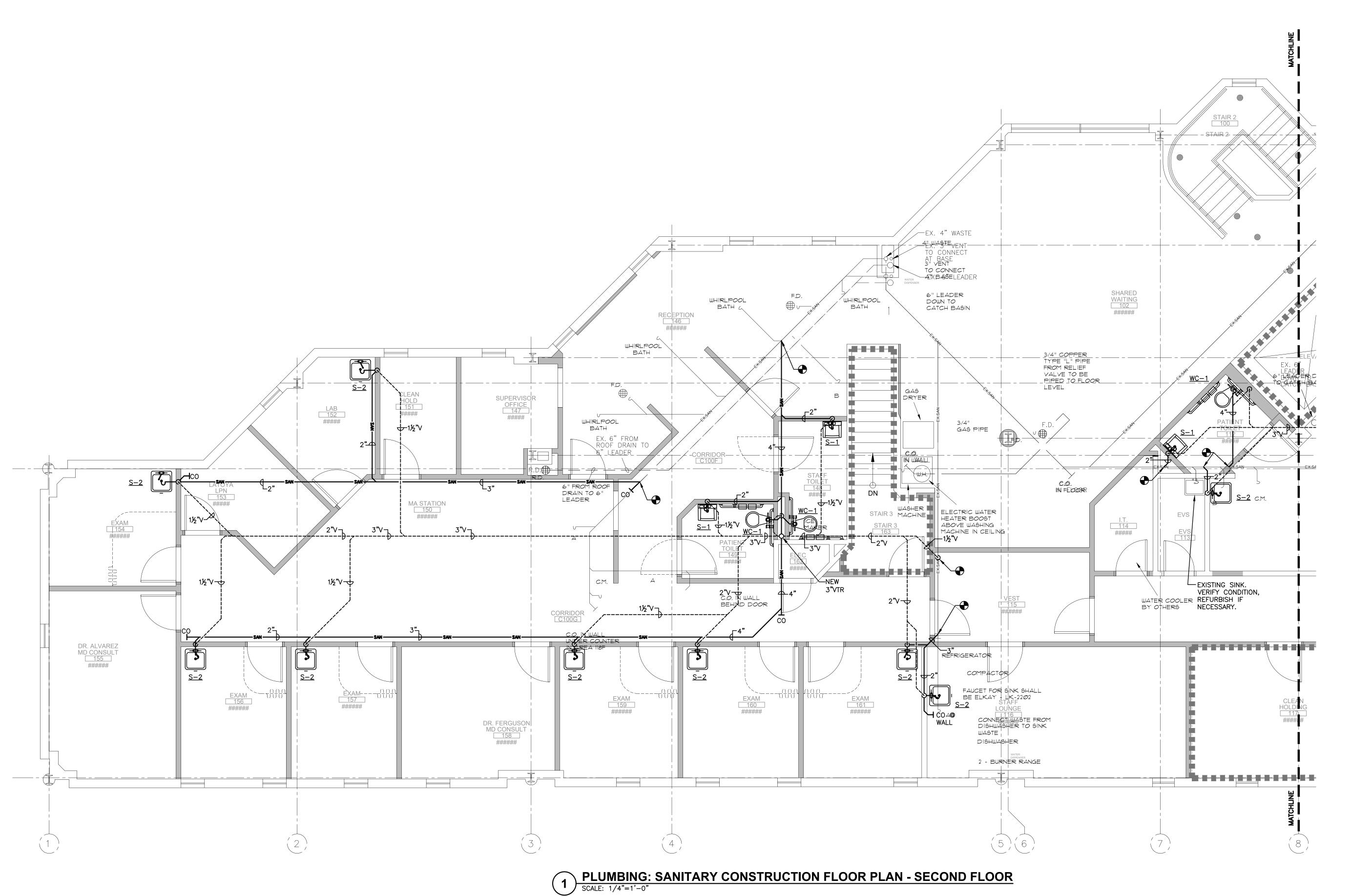
PROJECT NUMBER 21019

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3/21/2022

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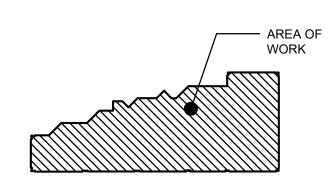


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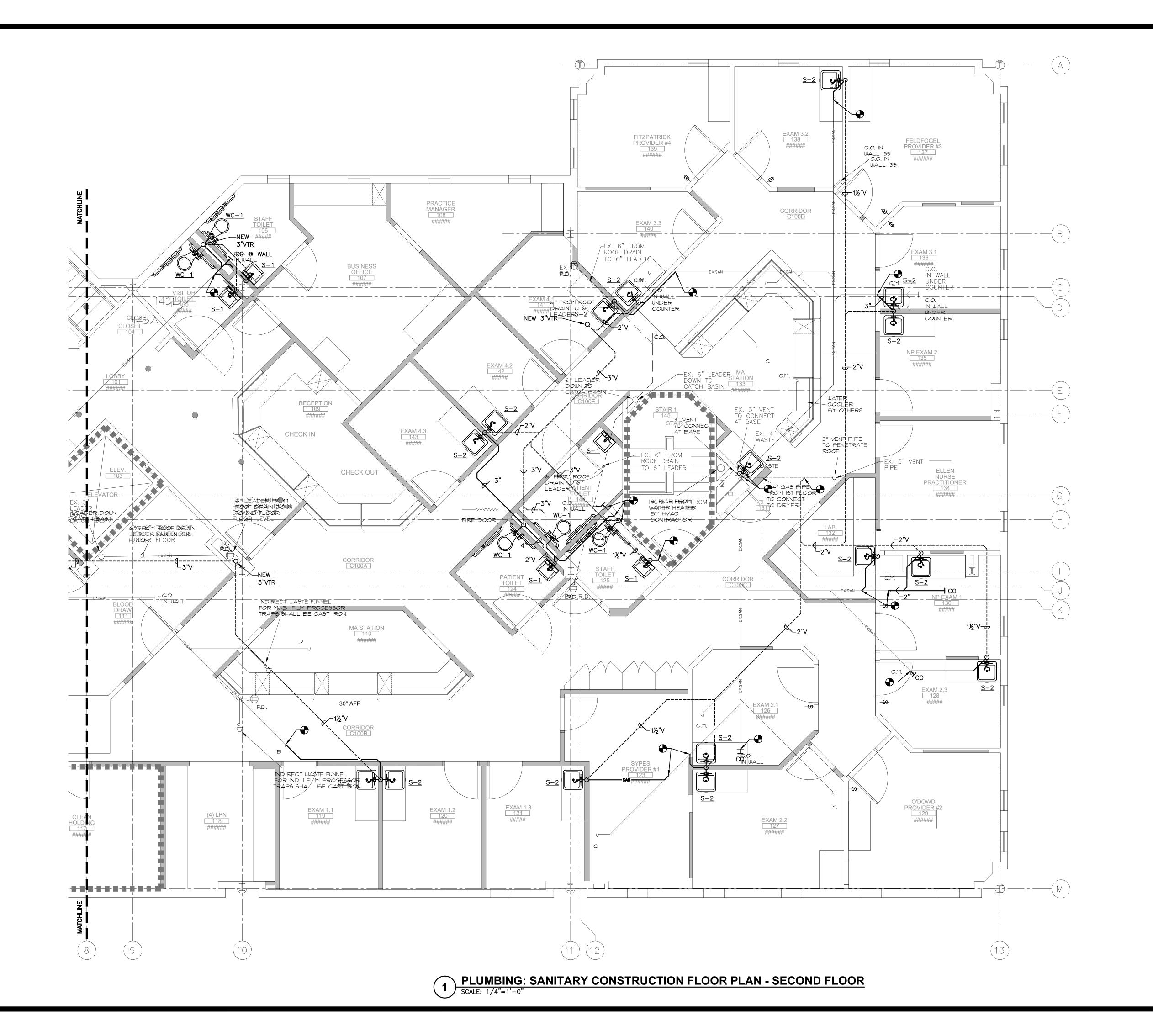
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DRAWING TITLE:

PLUMBING: SANITARY CONSTRUCTION FLOOR PLAN - SECOND FLOOR

PROJECT NUMBER DATE

SCALE **AS NOTED** 3/21/2022

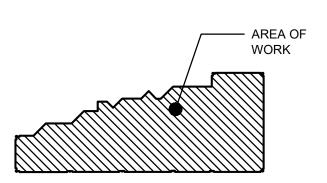


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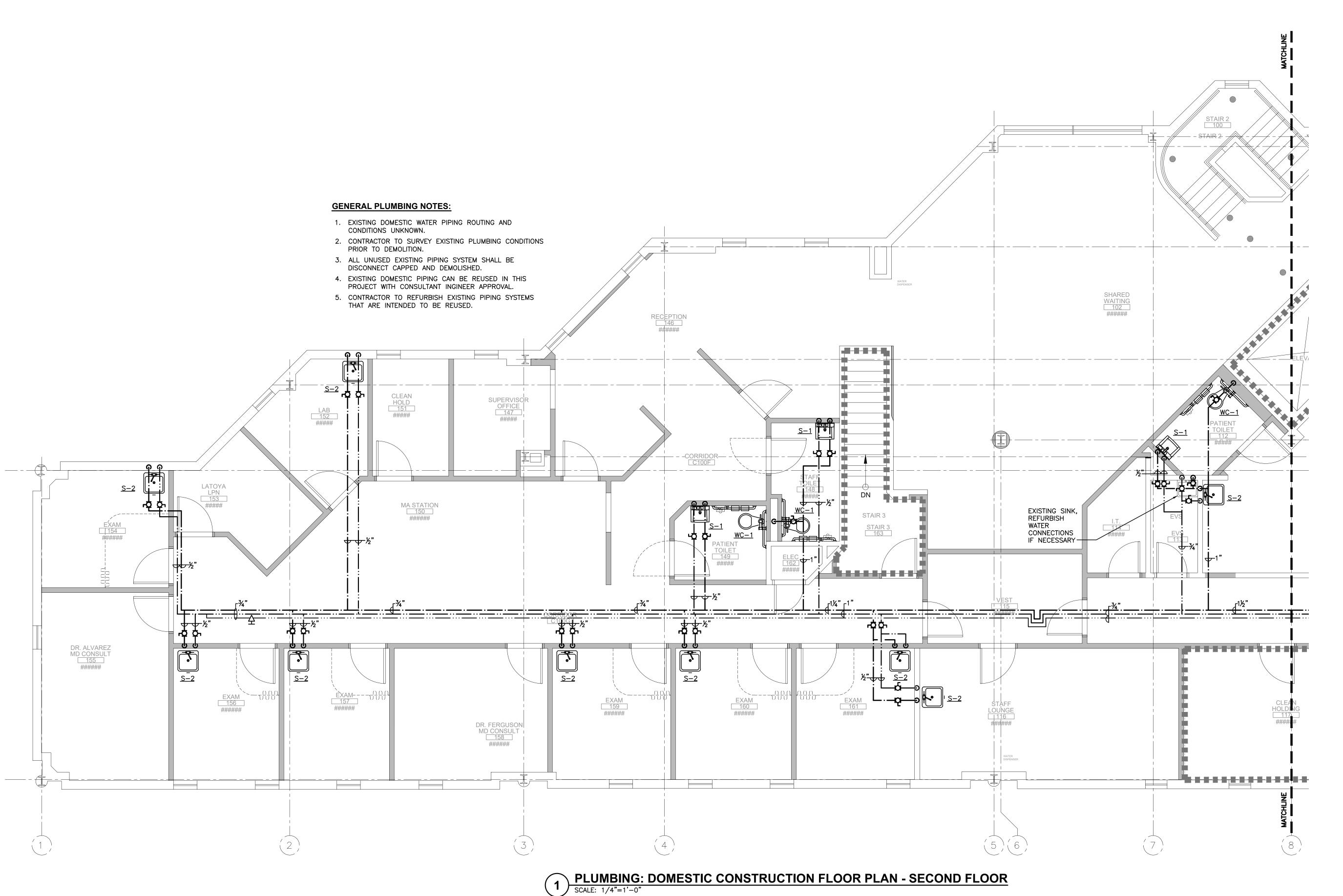
PLUMBING: SANITARY CONSTRUCTION FLOOR PLAN - SECOND FLOOR

PROJECT NUMBER

DRAWING NUMBER

21019 3/21/2022

SCALE AS NOTED

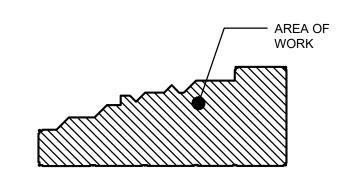


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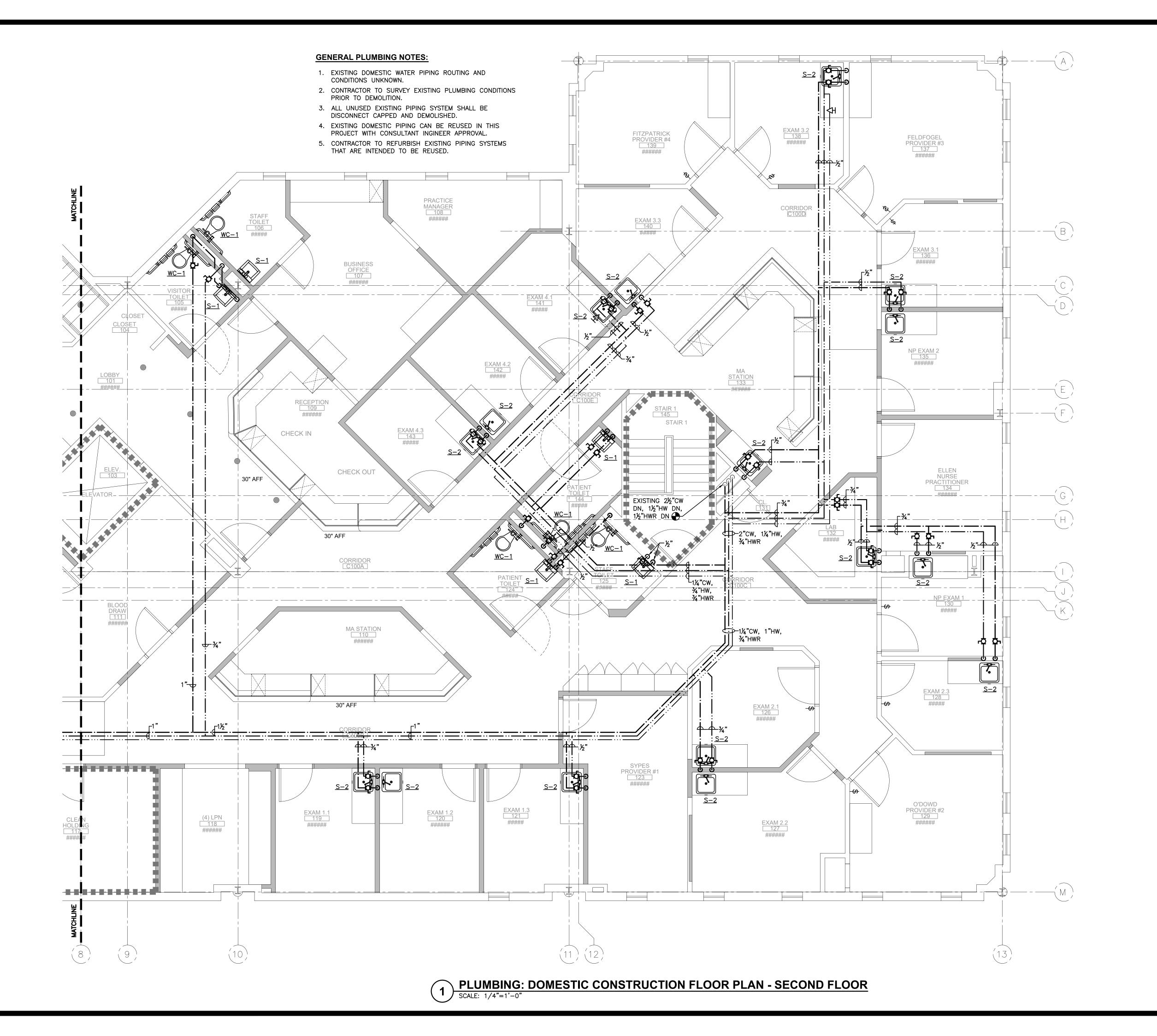
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DRAWING TITLE:

PLUMBING: DOMESTIC CONSTRUCTION FLOOR PLAN - SECOND FLOOR

PROJECT NUMBER 21019

AS NOTED 3/21/2022 DRAWING NUMBER

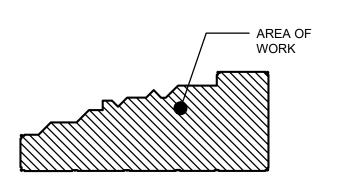


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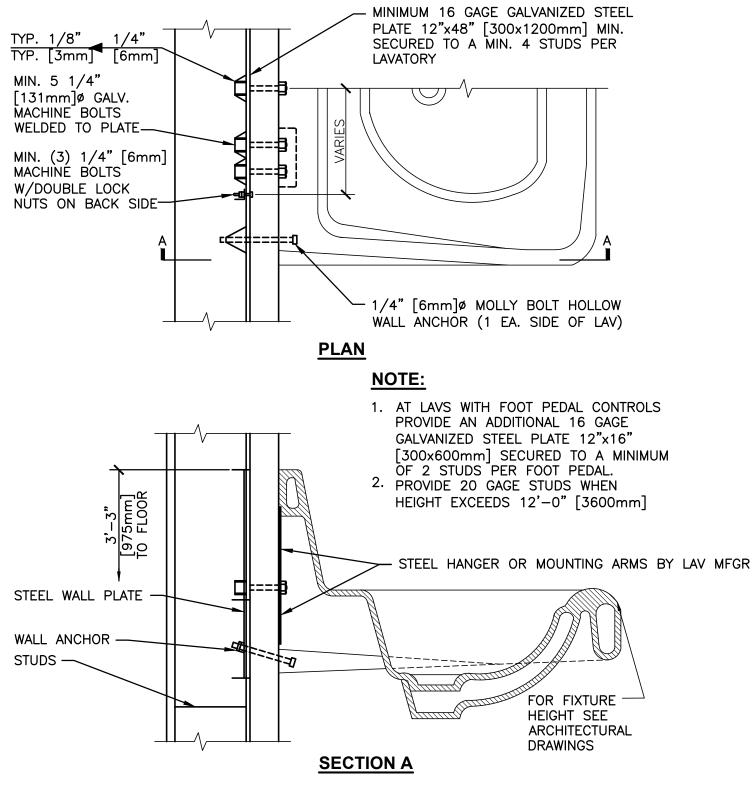
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PLUMBING: DOMESTIC CONSTRUCTION FLOOR PLAN - SECOND FLOOR

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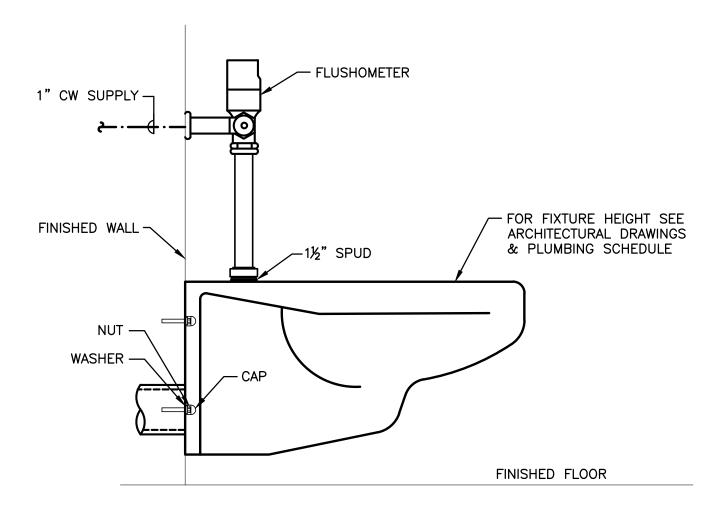
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1 LAVATORY MOUNTING DETAIL

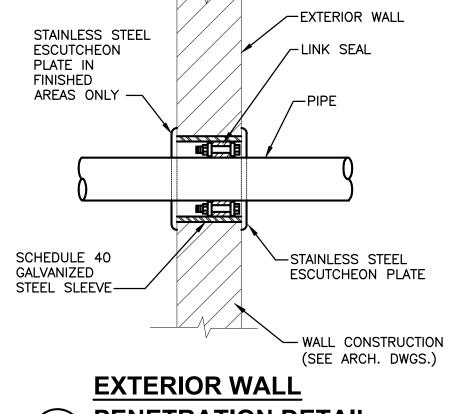
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NOTE:
INSTALL PER MANUFACTURER'S REQUIREMENTS

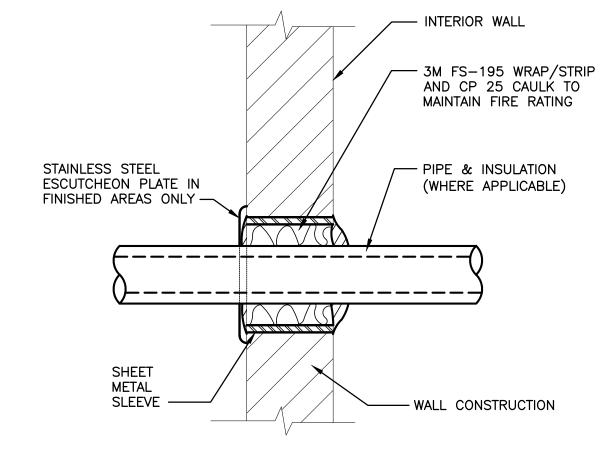
WALL MOUNTED FLUSH VALVE DETAIL

N.T.S.



PENETRATION DETAIL

N.T.S.



RATED WALL PENETRATION DETAIL

N.T.S.

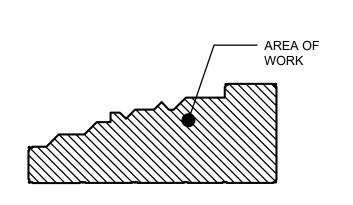
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KEY PLAN: NOT TO SCALE FIRST FLOOR







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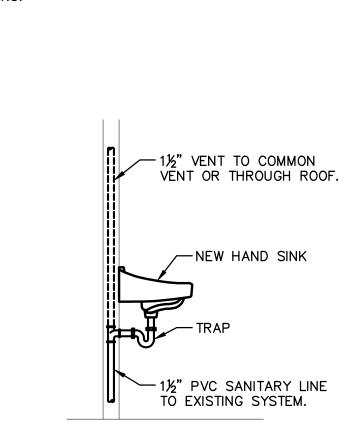
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PLUMBING: DETAILS

PROJECT NUMBER
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DATE SCALE
3/21/2022 AS NOTED

DRAWING NUMBER



5 SINK DRAINAGE / VENT DETAIL

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