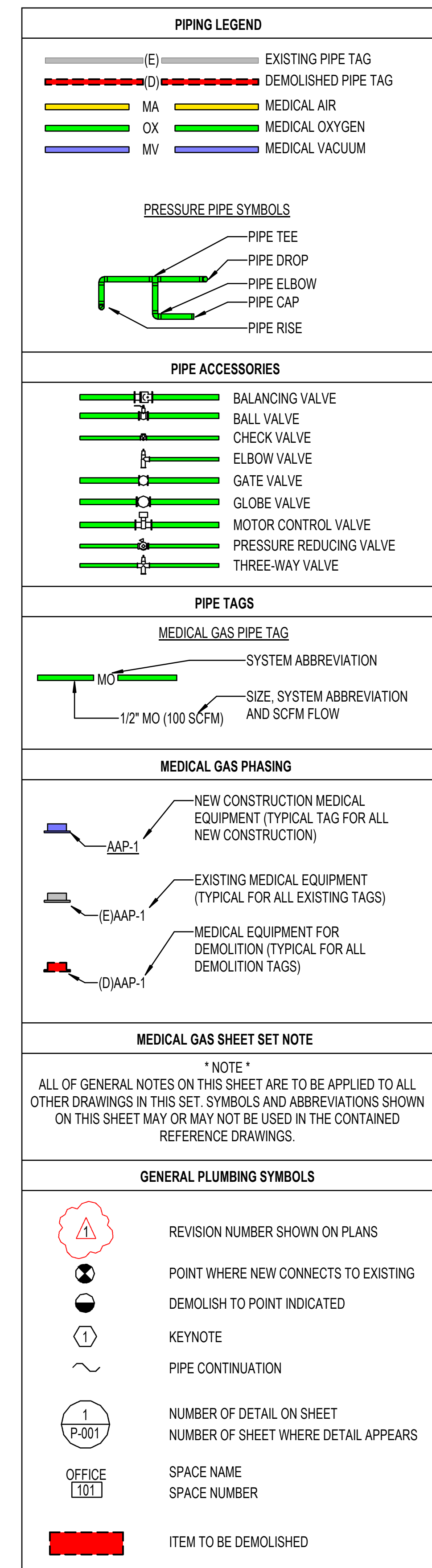
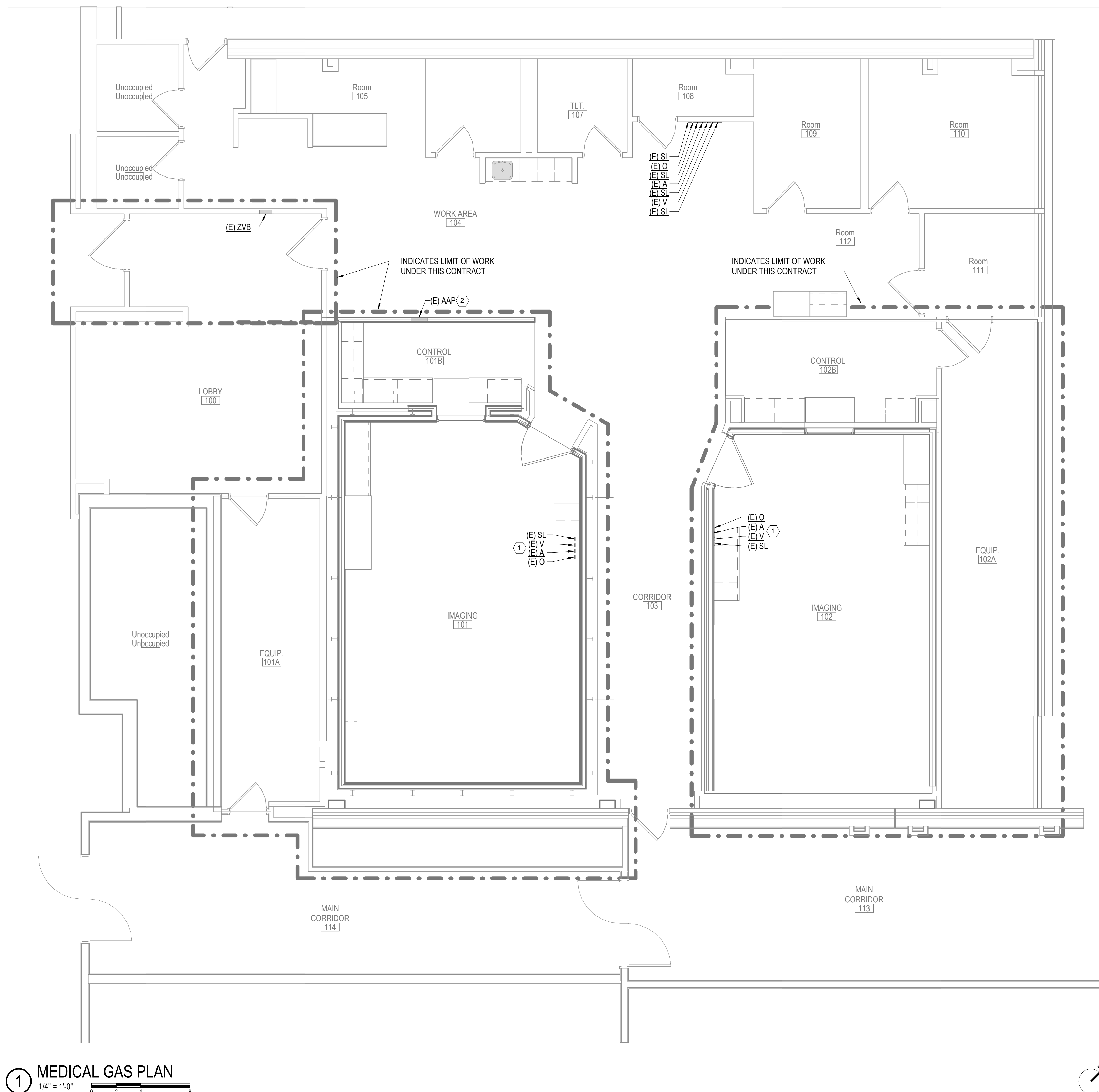




PLUMBING GENERAL NOTES

- 1 ALL PLUMBING SYSTEMS SHALL BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES.
- 2 ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT. CONTRACTOR SHALL NOT RISE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE SHOWN AND, IF EXPRESSLY REQUIRED BY BOTH, THE CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS FOR COMPLETE INFORMATION.
- 3 BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS IMPACTED THE DESIGN OF OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION.
- 4 EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ABOVE, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE OBLIGATION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
- 5 CONTRACTOR SHALL PAY ALL UTILITY FEES & CHARGES AS PART OF BASE BID IN THE CONTRACT.
- 6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES: I.E., ARCHITECTURAL, HVAC, ELECTRICAL, STRUCTURAL, FIRE PROTECTION AND CIVIL PRIOR TO CONSTRUCTION.
- 7 THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS, SIZES AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION: I.E., SANITARY AND SEWER, DRAINAGE, PROTECTION, DOMESTIC WATER AND NATURAL GAS. ALL SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING, EXCEPT WHERE SHOWN OTHERWISE. SEE SITE UTILITY DRAWINGS FOR CONTINUATION OF ALL SERVICE LINES.

MEDICAL GAS GENERAL NOTES

- 1 PROVIDE, INSTALL, AND TEST MEDICAL GAS SYSTEM IN COMPLIANCE WITH NFPA 99.
- 2 PIPING LAYOUT IS DIAGRAMMATIC ONLY. FIELD VERIFY AND COORDINATE ACTUAL LOCATION AND SIZES OF PIPING AND PIPE ACCESSORIES WITH ALL OTHER TRADES.
- 3 PROVIDE CERTIFICATION FOR ALL MEDICAL GAS PIPING WITHIN THE SCOPE OF THIS PROJECT. CONTRACTOR TO BEAR THE COST OF RE-CERTIFICATION AT NO ADDITIONAL COST TO THE OWNER.
- 4 EQUIP ALL SERVICE VALVES THAT TEE OFF OF MAIN BRANCH LINE WITH LOCKABLE HANDLES.
- 5 SIZES SHOWN ARE NOMINAL DIAMETERS. ALL PIPING TO BE HARD DRAWN COPPER TUBE, ASTM B819, TYPE K, FACTORY CLEANED, PURGED, AND LABELED FOR MEDICAL GAS SERVICE. INCLUDE MARKING OR SEALING, "CLEANED FOR MEDICAL GAS SERVICE" AND "CLEANED FOR OXYGEN SERVICE." COPPER WROUGHT FITTINGS ARE TO BE SIMILAR. ALL JOINTS TO BE BRAZED PER NFPA 99. ALL COPPER PIPING BELOW GRADE TO BE WRAPPED OR SLEEVED IN POLYETHYLENE MATERIAL.
- 6 PROVIDE FIRE STOPPING FOR ALL FLOOR AND WALL PENETRATIONS. ADDRESS ALL TO PRESERVE THE FIRE RESISTANCE RATING OF THE PENETRATED AREA.
- 7 INCLUDE MATERIALS AND INSTALLATION COST OF ALL MEDICAL WIRING IN BASE BID.
- 8 INTERVALS OF PIPE SUPPORTS: (EXAMPLE PIPE SIZE-SUPPORTSPACING IN FEET)
1/2" - 6FT, 3/4" - 7FT, 1" - 8FT, 1-1/4" - 9FT, 1-1/2" & 2" - 10 FT
- 9 PROVIDE SEISMIC PROTECTION FOR MEDICAL GAS SYSTEM PIPING AND COMPONENTS AS REQUIRED BY NFPA. REFER TO SEISMIC REQUIREMENTS.
- 10 ANY EXISTING EQUIPMENT, PIPING, ETC. ARE BASED ON AS-BUILT DRAWINGS AND/OR LIMITED SITE SURVEY. VERIFY LOCATIONS AND MAKE PROVISIONS SHOULD THERE BE ANY CONFLICTS OR VARIATIONS.
- 11 CONNECT NEW MEDICAL GAS SERVICES TO EXISTING. PATCH TO MATCH EXISTING WALLS AND CEILING PENETRATIONS.

KEYED NOTES

- 1 REINSTALL MEDICAL AIR, OXYGEN, VACUUM OUTLETS AND SLIDE MOUNT IN WALL. INSTALL NEW MEDICAL GAS PIPING AS NEEDED FOR A COMPLETE AND OPERABLE SYSTEM. USE NON-FERROUS MATERIALS PER MRI EQUIPMENT MANUFACTURER RECOMMENDATIONS.
- 2 REINSTALL MEDICAL GAS AREA ALARM PANEL IN WALL. INSTALL NEW MEDICAL GAS PIPING AS NEEDED FOR A COMPLETE AND OPERABLE SYSTEM.