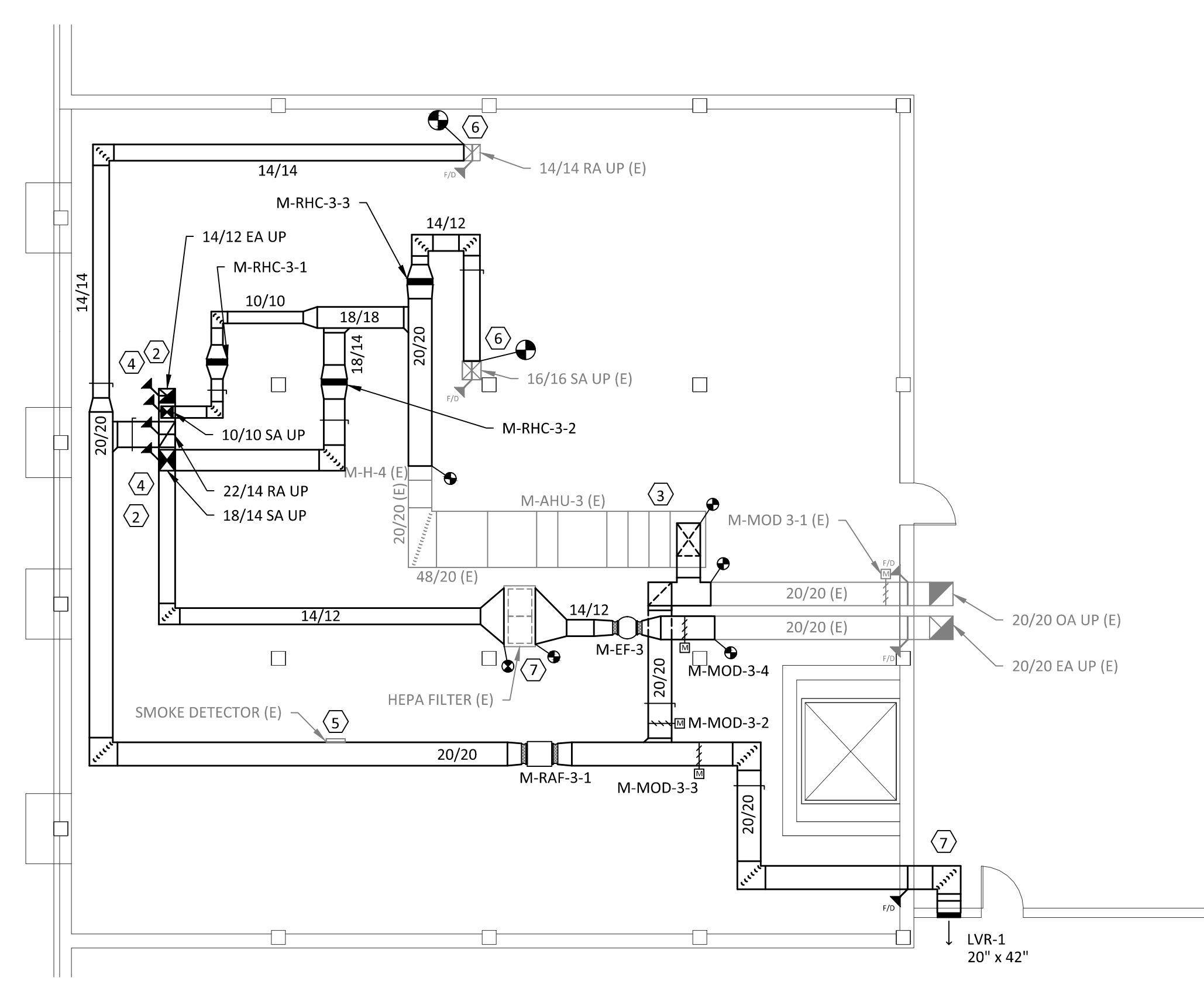


1 BASEMENT HVAC PLAN
SCALE: 1/8" = 1'-0"



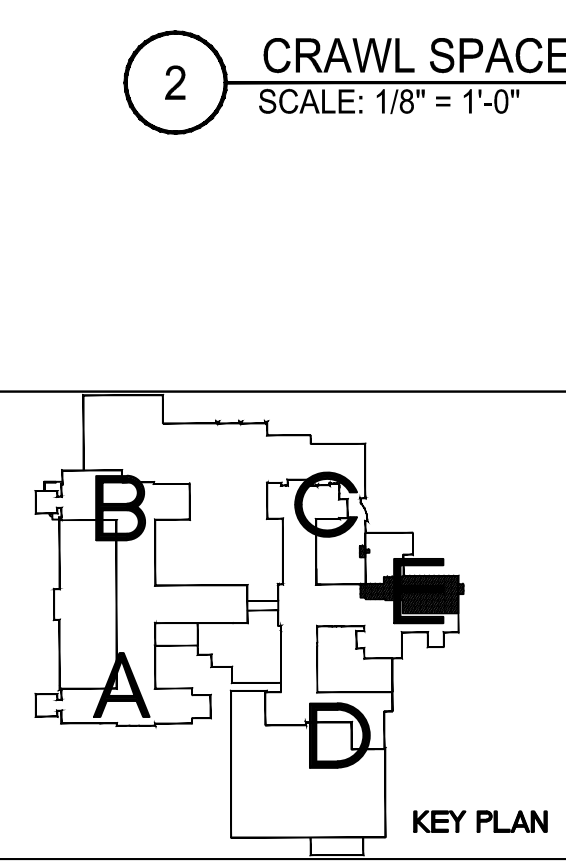
2 CRAWL SPACE HVAC PLAN
SCALE: 1/8" = 1'-0"

DUCT PRESSURE CLASSES:	
SUPPLY DUCT:	2" W.C.
RETURN AIR:	1" W.C.

- VENTILATION NOTES:**
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN THE "AS-BUILT" CONDITIONS AND THESE DRAWINGS.
 - COORDINATE ALL DUCTWORK INSTALLATION WITH GENERAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL WORK. INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE. PROVIDE ALL NECESSARY OFFSETS (DROPS AND RISES) TO KEEP DUCTWORK TIGHT TO THE STRUCTURE ABOVE. OFFSET DUCTWORK TO AVOID BEAMS.
 - REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS FOR CEILING TYPES, HEIGHTS, SOFFIT AREAS, AND ELEVATIONS FOR INSTALLATION OF NEW DUCTWORK, EQUIPMENT, ETC.
 - CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONALLY REQUIRED REMOVAL AND RE-INSTALLING OF EXISTING CEILING TILE NOT SHOWN FOR THE DEMOLITION OF EXISTING HVAC PIPING, EQUIPMENT, ETC. VERIFY WITH ARCHITECTURAL PLANS FOR CEILING WORK. ANY CEILING TILE OR GRID DAMAGED DURING CONSTRUCTION SHALL BE REPLACED NEW BY CONTRACTOR.
 - ALL PATCHING/CUTTING OF WALLS, FLOOR, AND ROOF SHALL BE BY CONTRACTOR.
 - MAINTAIN 3'-0" CLEAR SPACE IN FRONT OF ALL ELECTRICAL, CONTROL, AND ACCESS PANELS FOR ACCESSIBILITY.
 - ALL DAMPERS, ETC. SHALL BE INSTALLED IN ACCESSIBLE CEILINGS.
 - ALL OPEN ENDS OF DUCTS SHALL BE CAPPED AT THE END OF CONSTRUCTION EACH DAY.

- PHASING NOTES:**
- WORK WILL BE SHUT DOWN AS REQUIRED FOR STAFF/PATIENT NEEDS OR NOISE ISSUES.
 - CORRIDORS TO REMAIN OPEN AT ALL TIMES AND SHOULD BE SCHEDULED AFTER BUSINESS HOURS OR ON WEEKENDS, AND SHOULD BE SUBDIVIDED TO MAINTAIN CIRCULATION.
 - CORRIDOR ACCESS TO ROOMS MUST BE MAINTAINED AT ALL TIMES EXCEPT POSSIBLY OUTSIDE BUSINESS HOURS WHEN WORK COULD BE COORDINATED AND COMPLETED.
 - WORK MUST BE COORDINATED WITH THE IMMEDIATE REINSTALLATION OF FINISHES SO CORRIDORS DO NOT REMAIN IN AN UNFINISHED STATE.
 - ALL WORK IN ROOM BE-311 SHALL BE SCHEDULED FOR AFTER HOURS OR ON WEEKENDS. COORDINATE WITH VA A MINIMUM OF TWO (2) WEEKS IN ADVANCE. ALL ROOM SHALL BE RESTORED TO USABLE CONDITION AT THE END OF EACH SHIFT.
 - ALL WORK IN ROOM BE-31A SHALL BE PERFORMED WITHIN CONSTRUCTION BARRIER DURING REGULAR WORK HOURS.

- PLAN NOTES:**
- ROUTE ALL DUCTS ABOVE EXISTING CONDUIT AND PIPING. MODIFY ALL EXISTING HANGERS AS NECESSARY TO ROUTE NEW DUCTS. COORDINATE RELOCATION OF EXISTING CONDUITS TO ACCOMMODATE NEW DUCT ROUTE WITH E.C.
 - COORDINATE DUCT ROUTES THROUGH FLOORS AND CHASES WITH OTHER TRADES.
 - REMOVE ACTUATOR AND LOCK HEATING COIL BYPASS DAMPER CLOSED. REMOVE ACTUATOR AND LOCK HEATING COIL FACE DAMPER OPEN.
 - INSTALL NEW 2-HOUR FIRE RATED DAMPERS AT ALL FLOOR PENETRATIONS.
 - RELOCATE EXISTING DUCT SMOKE DETECTORS. NECESSARY WIRING MODIFICATIONS BY E.C.
 - CONNECT NEW DUCTWORK TO EXISTING VERTICAL DUCT MAIN. FIRE DAMPER SHALL REMAIN AS EXISTING. INSTALL ACCESS DOOR FOR DAMPER INSPECTION.
 - LOUVER AND LINTEL INSTALLED BY CONTRACTOR.
 - INSTALL 28/20 RETURN DUCT AND GRILLE AT WALL.
 - INSTALL 20/20 DUCT IN WALL. INSTALL GRILLE ON BOTH SIDES OF WALL.



Revisions	Date

**Dept. of Veterans Affairs
Health Care System**
2101 Elm Street North
Fargo, ND 58102

JPK
ENGINEERING, L.L.C.
112 N. Univ. Dr.
Suite 140
Fargo, ND 58102
(701) 866-8816

MBN
ENGINEERING
MECHANICAL • ELECTRICAL • CIVIL
303 7th St N, Suite 200
Fargo, ND 58102
PHONE: 701.478.6200
FAX: 701.478.6340

IMAGE
GROUP
IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

I hereby certify that this plan specification, or report was prepared by me or under my direct supervision, and that I am duly Registered Engineer under the laws of the State of North Dakota.
Quaid P. Williams
Date: 09-15-17 Reg. No. PE-5639

Drawing Title BASEMENT / CRAWL SPACE - AREA 'E' HVAC PLAN	
VA Project No. 437-16-210	Contract No. 437-R75521
Building No. 1	AutoCAD File Name H3 - HVAC.dwg

Project Title UPGRADE BASEMENT DRY GOODS AIR CONDITIONING	
Designed By JPK	Checked By RJS
Drawn By KAR	Location FARGO VA HEALTH CARE SYSTEM FARGO, ND

Date SEPTEMBER 15, 2017	Scale SEE PLAN
Drawing No. H3	
Dwg. 5 of 9	

