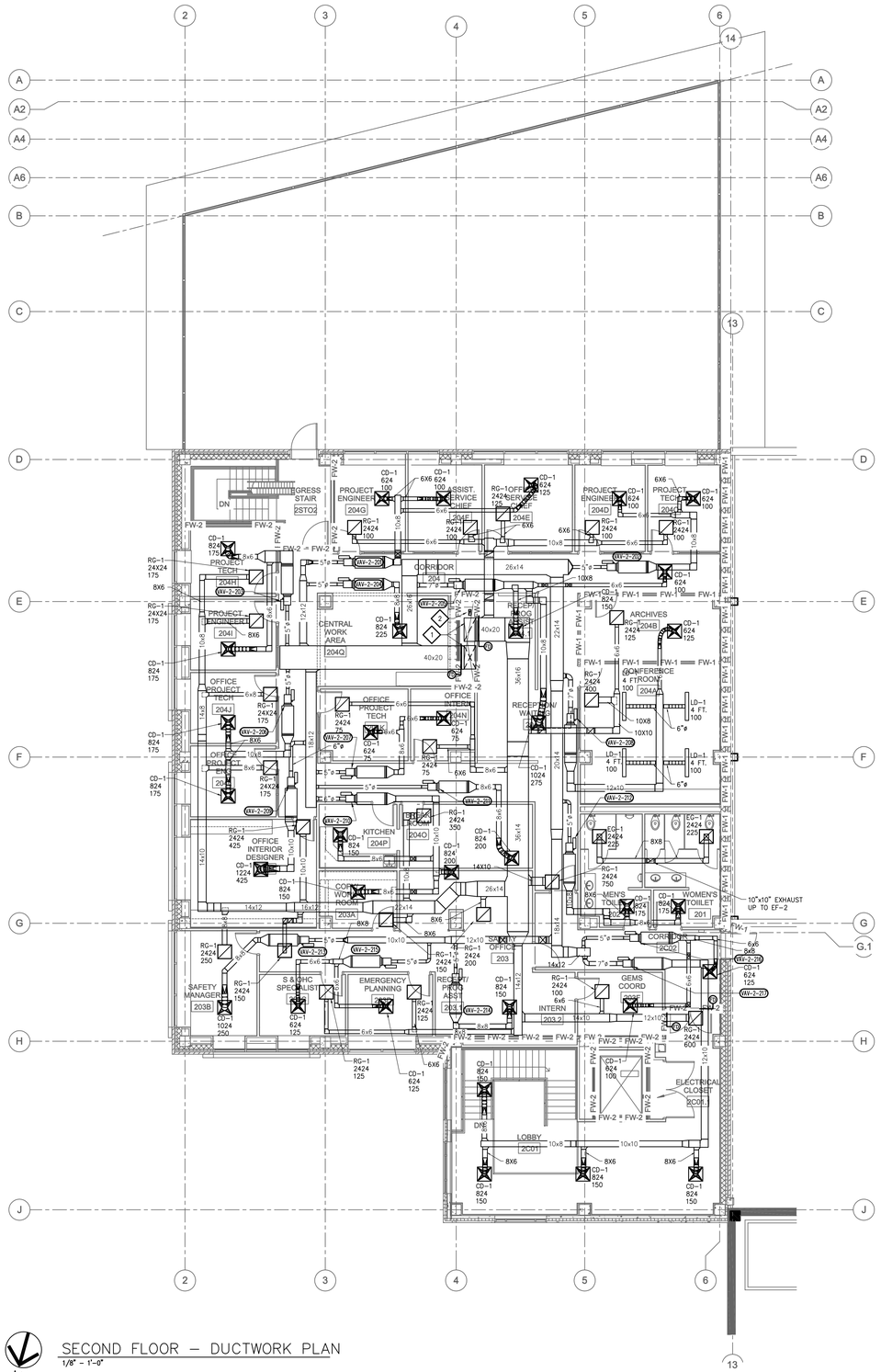


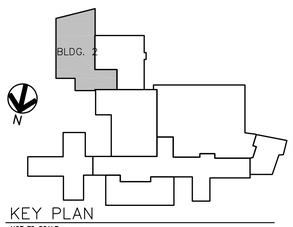
SECOND FLOOR – DUCTWORK PLAN
1/8" = 1'-0"

GENERAL HVAC NOTES:

1. PROVIDE VOLUME BALANCING DAMPERS IN BRANCH DUCTS AT ALL SUPPLY DIFFUSERS, RETURN GRILLES AND EXHAUST GRILLES AND AT EACH INDIVIDUAL BRANCH VENTILATION, SUPPLY AND RETURN DUCT.
2. PLACE DIFFUSERS AS CLOSE TO PLAN LOCATION AS POSSIBLE WITHOUT INTERFERING WITH CEILING OR LIGHT GRID. FINAL DIFFUSER LOCATIONS SHALL BE SPECIFIED ON ARCHITECTURAL SHEETS.
3. DUCTWORK IS SHOWN IN SCHEMATIC FORM. ROUTE AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS AND COORDINATE WITH OTHER TRADES.
4. ANY MOTORIZED DAMPERS THAT ARE NOT ENCLOSED IN A CHASE OR CONCEALED WITHIN A CEILING SHALL BE PROVIDED WITH A PROTECTIVE CAGE FOR THE ACTUATOR AND MOTOR.
7. ALL EXPOSED DUCTWORK TO BE LINED (RECTANGULAR) OR DOUBLE WALL (ROUND) AND PAINTED PER ARCHITECTURAL REQUIREMENTS.
8. FIRE SAFE ALL PIPE PENETRATIONS PER UL AT RATED WALLS.
9. DUCTS SHALL BE CONSTRUCTED ACCORDING TO THE FOLLOWING SMACNA PRESSURE CLASSES:
   RETURN, RELIEF, EXHAUST – 1"
   SUPPLY, DOWNSTREAM OF AHU / UPSTREAM OF VAV BOXES – 2"
   SUPPLY, DOWNSTREAM OF VAV BOXES – 1"
   OUTSIDE AIR, UPSTREAM OF AHU – 1"
10. INSTALL DUCTWORK PER SMACNA REQUIREMENTS.
11. PROVIDE CONCEALING FLANGES (I.E. ESCUTCHEONS) AT ALL VISIBLE DUCT PENETRATIONS THROUGH WALLS.
12. DO NOT ROUTE ANY DUCTWORK OVER ELECTRICAL PANELS PER NEC AND CODE REQUIRED CLEARANCES. COORDINATE WITH ELECTRICAL DRAWINGS.
13. COORDINATE ALL WALL AND FLOOR PENETRATIONS WITH GENERAL CONTRACTOR.
14. PROVIDE ACCESS DOORS IN DUCTS FOR ALL MOTORIZED DAMPERS, FIRE AND SMOKE DAMPERS AND OTHER APPURTENANCES.
15. ALL BRANCH DUCT TO RUNOUTS SHALL BE AT DIFFUSER NECK SIZE.

KEYED HVAC NOTES:

1. 40X20 SUPPLY AND RETURN AIR DUCTS DOWN.
2. 10X4 EXHAUST DOWN AND UP TO EF-3 ON ROOF.



KEY PLAN
NOT TO SCALE

2-2

Revisions	Date

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Drawing Title: SECOND FLOOR DUCTWORK PLAN

Project Title: RENOVATE AND EXPAND SPACE FOR PATIENT SUPPORT AREAS

Approved: Division Chief

Approved: Service Director

Building Number: 2

Checked: TRF

Drawn: MSJ

Location: IOWA CITY VA HEALTH CARE SYSTEM, IOWA CITY, IOWA

Date 12-05-2014 CONSTRUCTION DOCUMENTS

Project No. DVA#636-311 S-H#110240-0

DRAWING NO. 2-H4

Dwg. 16 Of 24

Veterans Administration