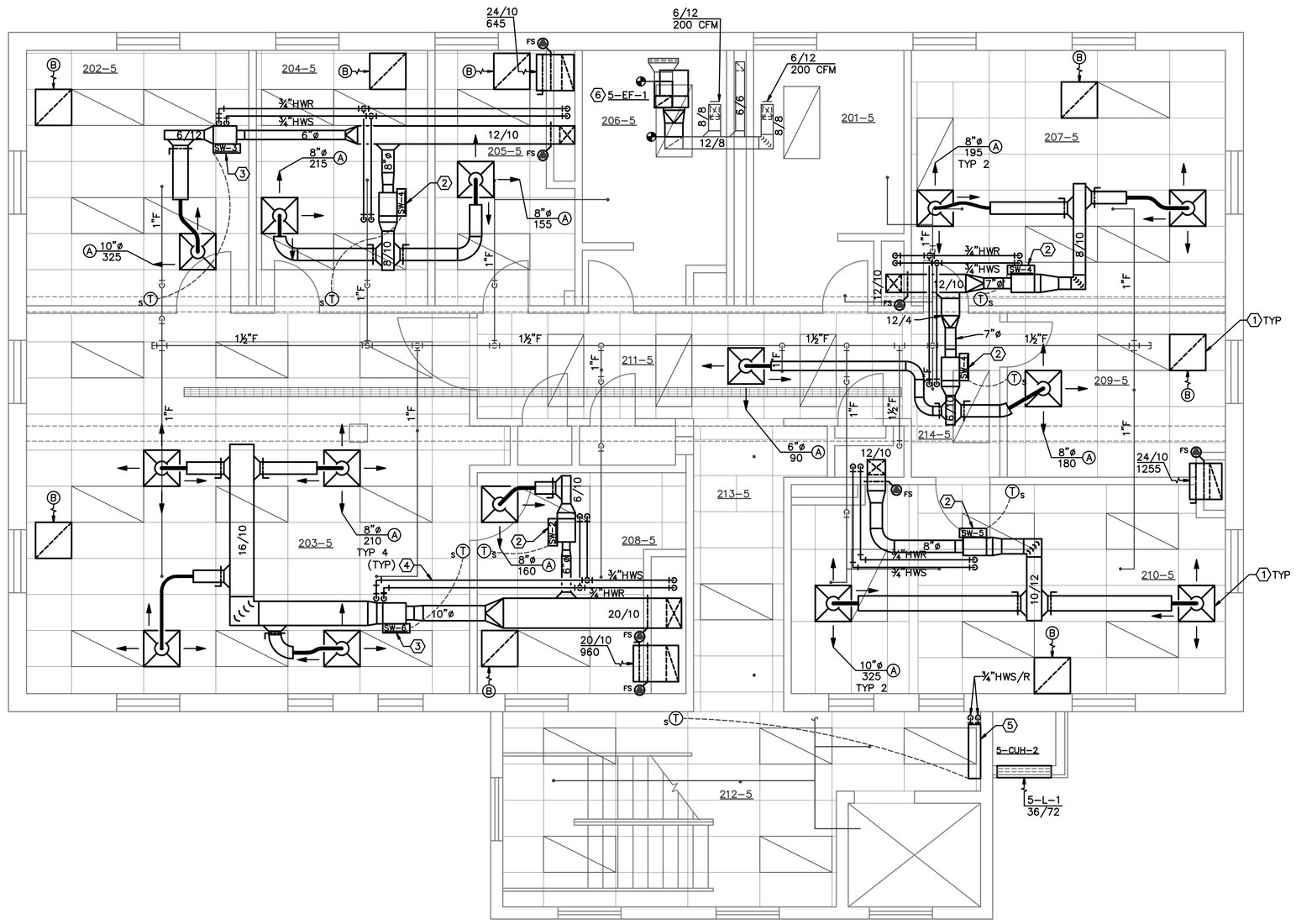

2ND FLOOR MECHANICAL NEW WORK PLAN

0 2 4 8 16

SCALE: 1/4" = 1'-0"

NORTH

GENERAL NOTES

1. NOT ALL DUCTWORK, PIPING, AND ACCESSORIES ARE NECESSARILY SHOWN ON THIS DRAWING, BUT WHAT WAS DEEMED NECESSARY TO SHOW INTENT OF WORK INVOLVED IN THIS PROJECT. REFER TO ALL OTHER PLANS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS FOR COMPLETE SYSTEM REQUIREMENTS.
2. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF ANY WORK, AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE ACTUAL FIELD CONDITIONS.
3. COORDINATE ALL PENETRATIONS OF FLOOR, ROOF, WALLS, ETC. WITH GENERAL CONTRACTOR. ALL PENETRATIONS THROUGH FIRE/SMOKE RATED CONSTRUCTION SHALL BE SEALED WITH A FIRE RATED CAULK EQUAL TO OR EXCEEDING THE CONSTRUCTION FIRE RATING.
4. ALL MATERIALS IN THE RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 IN ACCORDANCE WITH SECTION 602.2.1 OF THE 2006 EDITION OF THE INTERNATIONAL MECHANICAL CODE.
5. FLEXIBLE AIR DUCTS SHALL CONFORM TO UL181 IN ACCORDANCE WITH SECTION 603.6 OF THE 2006 EDITION OF THE INTERNATIONAL MECHANICAL CODE. LENGTH OF FLEX DUCT SHALL NOT EXCEED 5 FT..
6. ALL MECHANICAL EQUIPMENT SHALL BE LABELED AS TO THE AREA(S) SERVED IN ACCORDANCE WITH SECTION 304.11 OF THE 2006 EDITION OF THE INTERNATIONAL MECHANICAL CODE.
7. PROVIDE ACCESS DOORS OR OTHER MEANS OF APPROVED ACCESS TO ALL FIRE DAMPERS AND FIRE/SMOKE DAMPERS. ACCESS DOORS SHALL BE LABELED ON THE ACCESS DOOR AND ON THE CEILING BELOW.
8. PROVIDE AND INSTALL BALANCING DAMPER AT EACH BRANCH TAKE–OFF OF SUPPLY AND EXHAUST AIR SYSTEMS. PROVIDE AND INSTALL BALANCING DAMPER AT EACH BRANCH TAKE–OFF OF RETURN SYSTEMS WHERE INDICATED.
9. MOUNT SPACE TEMPERATURE SENSORS, THERMOSTATS, OCCUPANCY SENSORS, AND REMOTE CONTROL DEVICES WITH CENTERLINE AT 46" AFF UNLESS OTHER WISE INDICATED.
10. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SOFT COPPER REFRIGERANT PIPING SHALL BE PROTECTED FROM POTENTIAL DAMAGE.
11. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE 120V OUTLET WITHIN 25 FT. OF ALL EXTERIOR MECHANICAL EQUIPMENT.
12. ALL FRESH AIR INTAKES AND EXHAUST OPENINGS SHALL HAVE 1/4" MESH BIRD SCREENS.
13. PROVIDE BALANCING REPORT IN ACCORDANCE WITH THE 2006 EDITION OF THE INTERNATIONAL MECHANICAL CODE. SUBMIT TO THE ARCHITECT FOR FINAL APPROVAL. PROVIDE BALANCING REPORT TO INSPECTOR AT TIME OF HEATING FINAL INSPECTION.
14. DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE 2006 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE, SECTION 503.2.7.
15. PROVIDE AND INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS AND DRAIN VALVES AT ALL LOW POINTS IN HYDRONIC PIPING.
16. ALL HEATING WATER SUPPLY AND RETURN BRANCH PIPING TO TERMINAL UNITS SHALL BE 3/4" UNLESS NOTED OTHERWISE. ALL BRANCH TAKE–OFFS SHALL BE OFF THE BOTTOM OF THE MAIN.
17. MANY AREAS OF CONSTRUCTION ARE VERY CONGESTED, INSTALLATION OF MATERIALS AND EQUIPMENT SHALL BE COORDINATED WITH ALL TRADES TO ENSURE THAT THERE IS ADEQUATE ROOM FOR ALL MATERIALS AND EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT. INSTALLATION OF MATERIALS AND EQUIPMENT WHICH DOES NOT ALLOW FOR INSTALLATION OF REMAINING MATERIALS AND EQUIPMENT WILL BE REMOVED AND RELOCATED AT NO COST TO THE OWNER. IN GENERAL, PREFERENCE SHALL BE GIVEN TO THE INSTALLATION OF LARGER COMPONENTS FIRST (i.e. VAV BOXES, DUCTWORK, CABLE TRAY, HYDRONIC PIPING, SPRINKLER PIPING AND CONDUIT RESPECTIVELY.)

KEYNOTES

1. MOUNT NEW DIFFUSERS AND RETURN GRILLS IN LOCATIONS SHOWN.
2. NEW VAV UNITS, SEE "VAV UNIT COIL CONNECTION WITH 2–WAY VALVE DETAIL" ON SHEET H8.
3. NEW VAV UNITS, SEE "VAV UNIT COIL CONNECTION WITH 3–WAY VALVE DETAIL" ON SHEET H8.
4. NEW HEATING HOT WATER PIPING, SEE "HEATING HOT WATER PIPING SUPPORT HANGER DETAIL" ON SHEET H8.
5. NEW CABINET UNIT HEATER, SEE "CABINET UNIT HEATER HOT WATER PIPING DIAGRAM" ON SHEET H8.
6. MOUNT NEW UTILITY SET EXHAUST FAN ABOVE RESTROOMS IN ATTIC.

Revisions	Date
35% REVIEW	04/30/2009
75% REVIEW	05/21/2009
100% FINAL	06/05/2009

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Drawing Title: SECOND FLOOR MECHANICAL NEW WORK PLAN

Approved: Medical Center Director

Approved: Assistant Administrator, Engineering Department

Project Title: REPLACE AIR HANDLING UNIT BUILDING 5

Location: 2121 NORTH AVENUE GRAND JUNCTION, CO 81501

Date: April 15, 2009 | Checked: TBS | Drawn: DJS

Project Number: 575-10-105

Building Number: BUILDING NO. 5

Drawing Number: H7

OFFICE OF FACILITIES MANAGEMENT

Department of Veterans Affairs