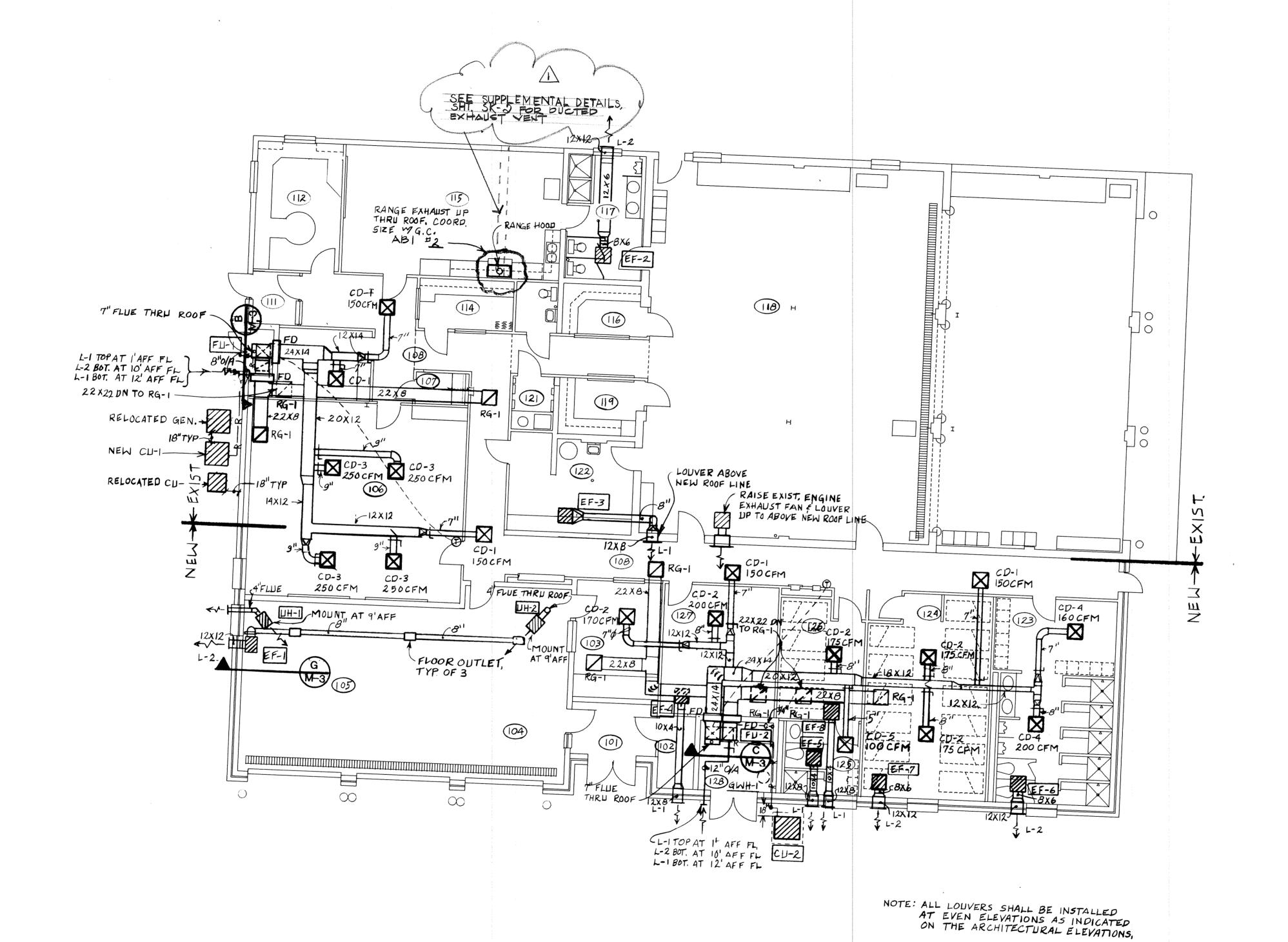
MECHANICAL

REVISIONS:

PROJECT: 88-18

DATE: 7-24-89



MECHANICAL PLAN NORTH (A)SCALE: 1/8": 1'-0"

REF: SEE SHT M-3 FOR SCHEDULES & DETAILS

CEILING DIFFUSER EXTRACTOR SPIN IN RETURN GRILLE SPLITTER DAMPER RECTANGULAR DUCT CFM EXHAUST GRILLE MARK CFM COOLING CONDENSATE AIR FLOW ARROW DUCT SECTION (SUPPLY) FIRE DAMPER DUCT SECTION (RETURN) DUCT SECTION (EXHAUST) TRANSITION FROM ROUND TO SQUARE

MECHANICAL LEGEND

VOLUME DAMPER MANUAL OPERATION

AUTOMATIC DAMPERS MOTOR OPERATED

DUCT (IST FIGURE, SIDE SHOWN; 2ND FIGURE, SIDE NOT SHOWN)

MECHANICAL EQUIPMENT

DUCT RISER 1ST DIMENSION SIDE POINTED TO

THERMOSTAT

MOUNT AT 5' AFF

GENERAL MECHANICAL NOTES

- 1 ALL DUCT SIZES SHOWN ARE THE METAL DIMENSIONS. ALLOWANCES HAVE BEEN MADE FOR THE LINER IN RECTANGULAR DUCTS.
- 2 ALL DIMENSION AND SIZES IN INCHES UNLESS OTHERWISE NOTED.
- 3 ALL RECTANGULAR SUPPLY AND RETURN DUCTS SHALL BE LINED. ROUND DUCTS TO BE WRAPPED.
- 4 ALL ELBOWS IN RECTANGULAR DUCTS SHALL HAVE TURNING VANES PER SPECIFICATIONS. PROVIDE PERFORATED ACOUSTIC VANES IN LINED DUCTS
- 5 USE SPIN-IN EXTRACTORS WITH BUTTERFLY DAMPER AT ALL ROUND BRANCH
- 6 USE FLEX DUCTS FOR FINAL CONNECTION TO CEILING SUPPLY DIFFUSER AND LIMIT TO 6' MAX. LENGTHS. DO NOT USE FOR RETURN DUCTS.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATING MECHANICAL SYSTEM, INCLUDING ALL INCIDENTAL ITEMS AND CONNECTIONS NECESSARY FOR PROPER OPERATION OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM MAY NOT BE INDICATED.
- 8 THE DRAWINGS INDICATE THE GENERAL LAYOUT REQUIREMENTS FOR EQUIPMENT, FIXTURES, PIPING, DUCTWORK, ETC. FINAL LAYOUT SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS WITH ALL MEASUREMENTS
- 9 IF INSTALLED DUCT DIMENSIONS ARE DIFFERENT THAN THOSE SHOWN, THE INSTALLED DUCTS SHALL HAVE EQUAL FRICTION TO THOSE SHOWN.
- THE MECHANICAL INSTALLATION SHALL BE SAFE, RELIABLE ENERGY, EFFI-
- THE MECHANICAL SYSTEM SHALL OPERATE QUIETLY WITH NOISE LEVELS BELOW THE CRITERIA RECOMMENDED FOR THE APPLICATION BY ASHRAE.

 OR UTBRATION

 OR UTBRATION 12 PROVIDE BALANCING DAMPERS AT ALL INDIVIDUAL CEILING DIFFUSER BRANCH DUCTS IN BOTH NEW AND EXISTING DUCTS.
- 13 UNDERCUT DOORS 1 INCH WHERE NO RETURN IS PROVIDED IN AN ENCLOSED
- 14 DUCT OSA THROUGH ROOF AS SHOWN. PROVIDE BALANCING DAMPER. PROVIDE AT ALL NATURAL DRAFT GAS APPLIANCE FLUES A GRAVITY TYPE SHT. M-2_{of} 3
- 16 ALL CEILING MOUNTED EXHAUST FAN SHALL BE SUSPENDED FROM THE