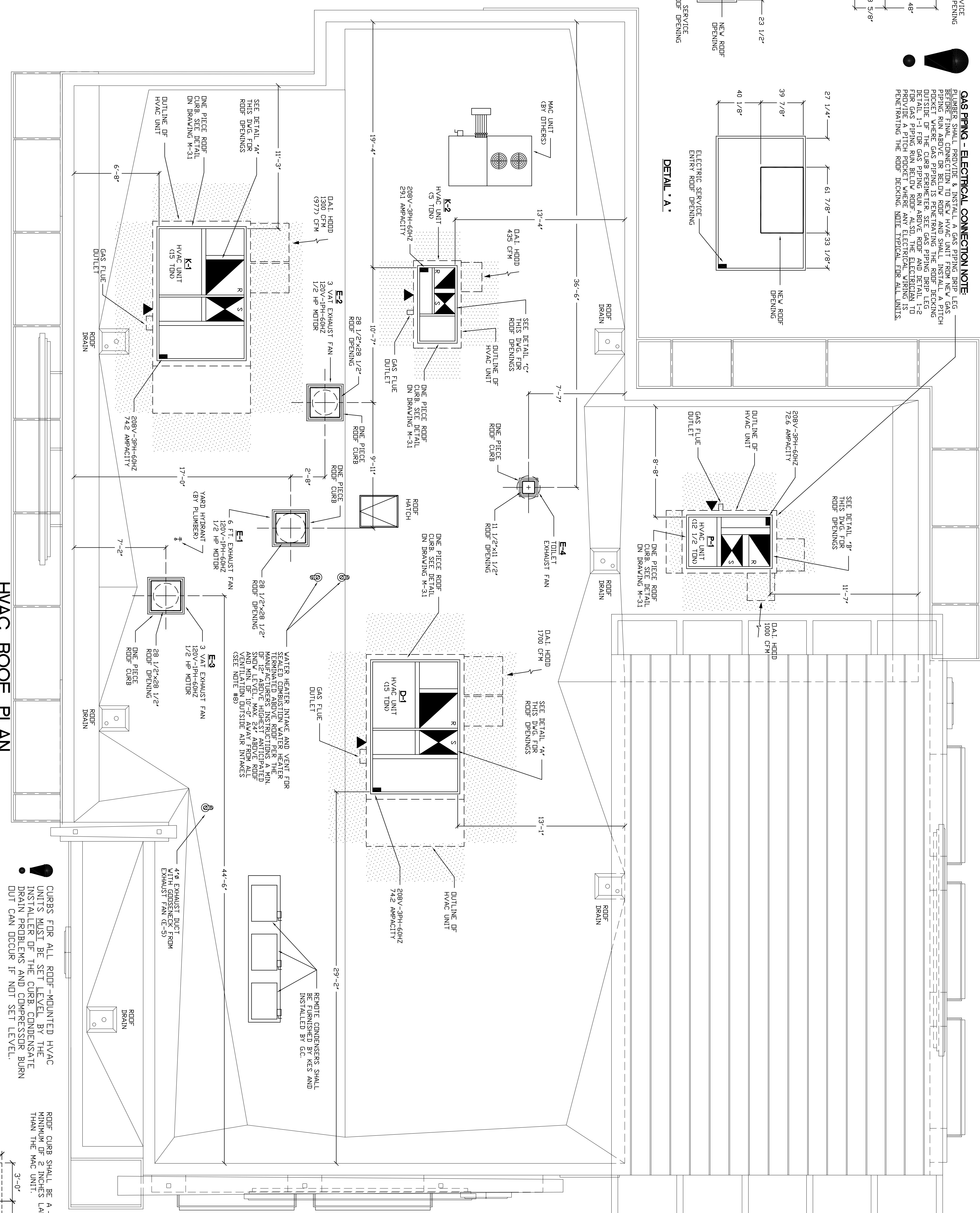
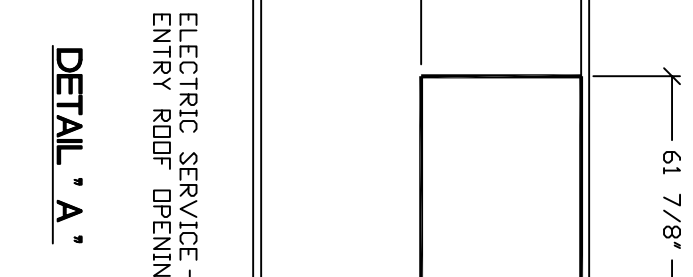
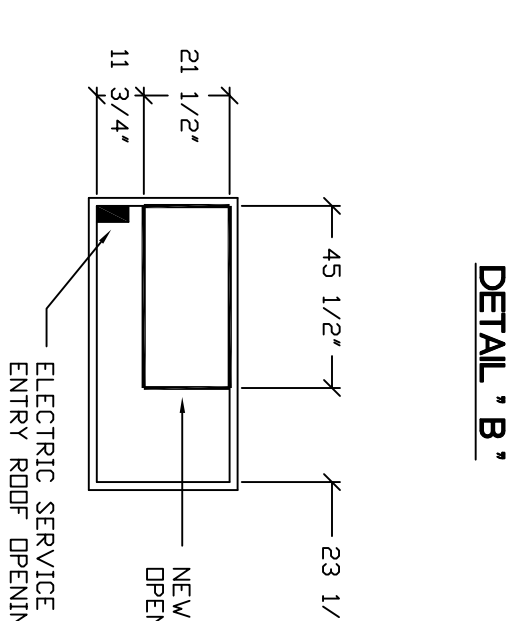
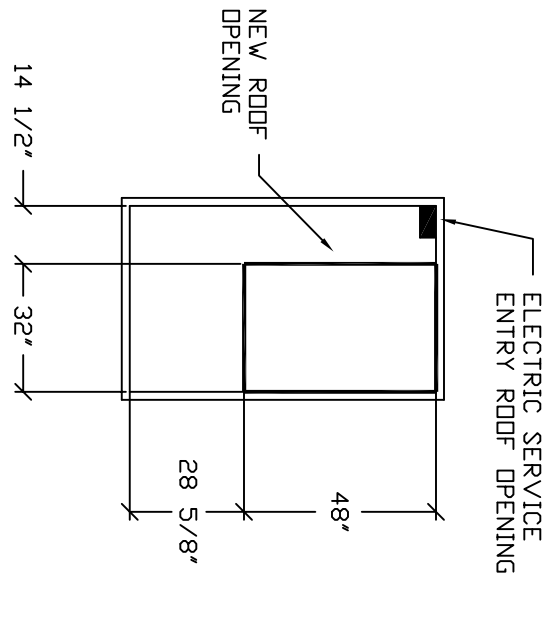


**GAS PIPING - ELECTRICAL CONNECTION NOTE**  
 PLUMBER SHALL PROVIDE & INSTALL A GAS PIPING DRIP LEG BEFORE FINAL CONNECTION TO NEW HVAC UNIT FROM NEW GAS PIPING. PLUMBER SHALL PROVIDE A PITCH POCKET WHERE GAS PIPING IS PENETRATING THE ROOF DECKING OUTSIDE OF THE CURB PERIMETER. SEE GAS PIPING DRIP LEG DETAIL 1-1 FOR GAS PIPING RUN ABOVE ROOF AND DETAIL 1-2 FOR GAS PIPING RUN BELOW ROOF. PLUMBER MUST PROVIDE A PITCH POCKET WHERE ANY ELECTRICAL WIRING IS PENETRATING THE ROOF DECKING. NOTE TYPICAL FOR ALL UNITS.



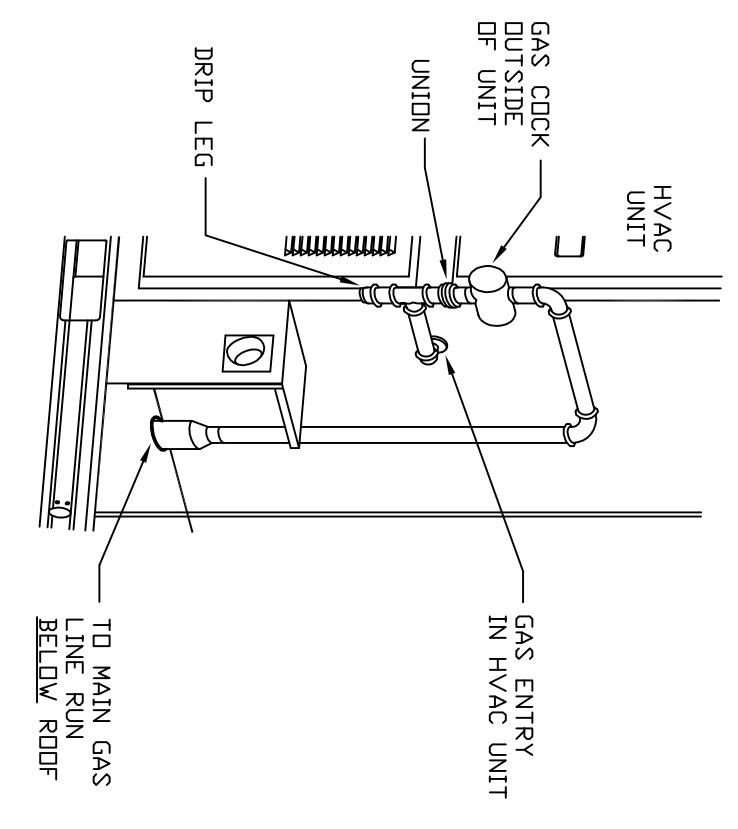
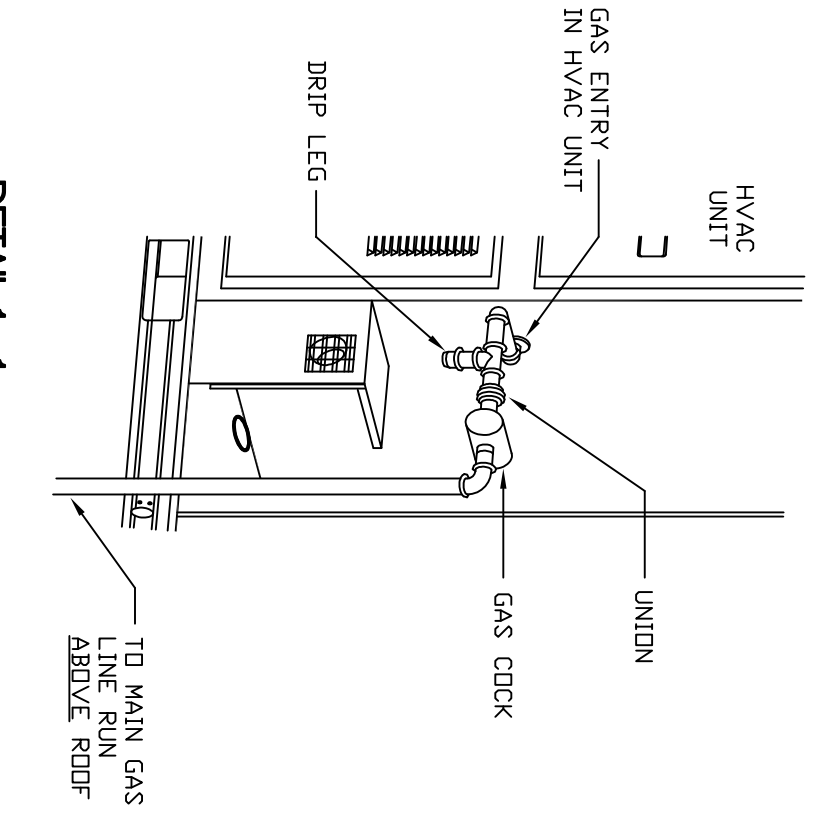
**COORDINATION NOTES (GC, PC, MC, EC):**

- THE GENERAL CONTRACTOR SHALL PROVIDE THE FOLLOWING:
  - ROOF OPENINGS AS INDICATED
  - SET LEVEL AND SECURE 4"x4" AND EXHAUST FAN STEEL CURBS UNITS
  - SEAL CURBS INCLUDING LEVELING FOR REMOTE CONDENSING UNITS
  - INSURE THAT T-BAR CEILING IS INSTALLED EXACTLY AS SHOWN
  - MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ASSEMBLING AND INSTALLING ALL HVAC UNIT RELIEF AND INTAKE HOODS
  - WEATHERPROOF DISCONNECT SWITCH AND J-BOX PROVIDED BY FAN MANUFACTURER. FACTORY WIRED AND MOUNTED TO FAN BASE. EXTENSION CONNECTION SHALL BE MADE ON INSIDE OF CURB TO ELIMINATE SWITCH PENETRATION OF ROOFING.
  - DISCONNECT SWITCH AND J-BOX PROVIDED AND MOUNTED INSIDE ROOF STRUCTURE WITH THE HVAC DUCT MAINS
  - THE WATER HEATER FLEW AND ALL PLUMBING VENT TERMINATIONS OUTSIDE AIR INTAKES
  - PLUMBING CONTRACTOR SHALL INSTALL CONDENSATE PIPING (EXCEPT SHUT-OFF COCK AND FITTINGS INCLUDED WITH HVAC UNITS) AND INSTALL ALL GAS PIPING, AND SHALL MAKE ALL FINAL CONNECTIONS. SEE SHEET P-40 FOR GAS PIPING PLAN.
  - ALL FIRE STAYS AND/OR DUCT SMOKE DETECTORS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. SEE SHEET M-10 FOR CONDITIONS AND SHEET E-410 FOR ELECTRICAL DETAILS.
  - ALL THERMOSTATS, SUB-BASES, REQ'DE SENSORS AND THEIR WOOD BASES AND VOLTAGE CONTROL CABLES FOR THE ROOF FOR HVAC CONTRACTOR AND INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR. INSTALL SENSORS AND THERMOSTATS AS DIRECTED BY THE MECHANICAL CONTRACTOR. SEE ELECTRICAL DETAILS ON SHEET M-31 AND ELECTRICAL WIRING DETAILS ON SHEET E-410.
  - SEE PRODUCT INSTALLATION INSTRUCTIONS FOR EXACT LOCATIONS TO HVAC UNITS.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE WATER-TIGHT SEAL AROUND ALL PLUMBING CONTRACTORS' DUCTS AND PIPES. PENETRATION AND BASE PAN AND EXTERIOR PANELS OF HVAC UNITS.

**HVAC ROOF PLAN**  
 SCALE: 1/4" = 1'-0"

**LEGEND**

- CURBS FOR ALL ROOF-MOUNTED HVAC UNITS MUST BE SET LEVEL BY THE INSTALLER OF THE CURB. CONDENSATE DRAIN PROBLEMS AND COMPRESSOR BURN OUT CAN OCCUR IF NOT SET LEVEL.
- LOCATION OF GAS SERVICE FOR NEW HVAC UNITS
- NEW ELECTRICAL SERVICE ROOF OPENINGS
- NEW SUPPLY DUCTWORK/PLENUM OPENING
- NEW RETURN DUCTWORK/PLENUM OPENING
- HVAC SERVICE ACCESS AND UNIT CLEARANCE AREA TO REMAIN UNOBTURATED. ALL OTHER TRADES TO STAY CLEAR



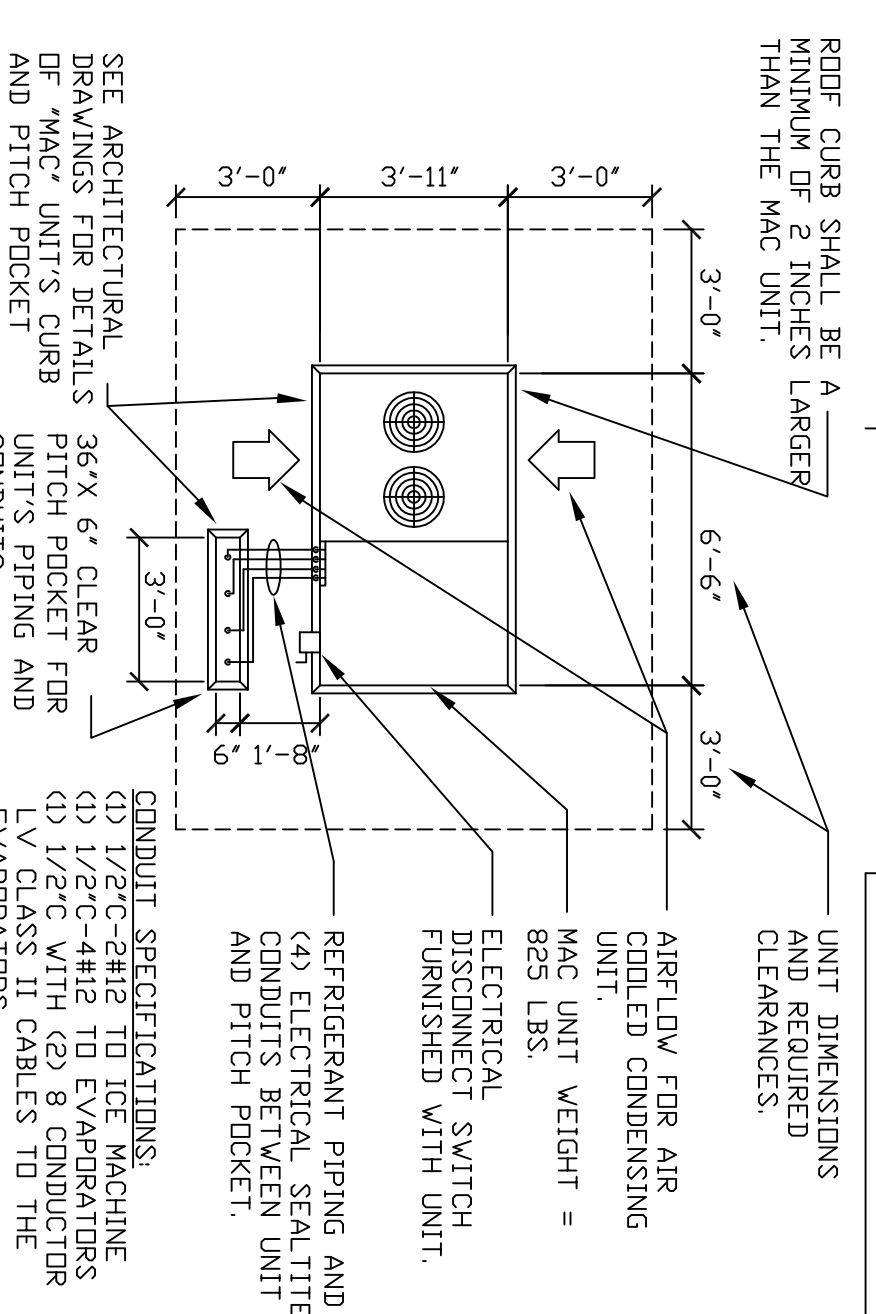
**DRAWING NOTES:**

- SEE DRAWING M-10 FOR GENERAL MECHANICAL NOTE.
- SEE DRAWING M-30 AND M-31 FOR MECHANICAL EQUIPMENT SCHEDULES AND DETAILS.
- SEE DRAWING M-31 FOR MECHANICAL LEGEND.
- SEE DRAWING K-21 FOR REMOTE CONDENSER AND MAC UNIT INFORMATION.

HVAC UNIT LOCATIONS ARE TO BE APPROVED BY A REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER BEFORE HVAC UNITS CAN BE RELEASED FOR SHIPMENT.

**MAC UNIT**

NOTE: MAC UNIT FURNISHED BY GC. SEE KITCHEN DRAWINGS FOR MAC UNIT SPECIFICATIONS.



| RESTAURANT LOCATION:<br><b>332 St John Street<br/>         PORTLAND, ME</b>                         | SHEET TITLE:<br><b>HVAC ROOF PLAN</b> | CONSULTANT:<br><br><b>M. J. MARCHIA, INC.</b><br>AIR CONDITIONING SYSTEMS<br><small>6 WASHINGTON AVE., BAY SHORE, NY 11706<br/>         (813) 686-8500 • (813) 686-8577 Fax</small> | <table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td></tr> </tbody> </table> | REVISIONS |  |  | NO. | DATE | BY | 1 |  |  | 2 |  |  | 3 |  |  | 4 |  |  | 5 |  |  | 6 |  |  | 7 |  |  |
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| REVISIONS   |                                       |   |   |           |  |  |     |      |    |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |
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| 6   |                                       |   |   |           |  |  |     |      |    |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |
| 7   |                                       |   |   |           |  |  |     |      |    |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |
| PREPARED FOR:<br><br><b>McDonald's USA, LLC</b><br>McDONALD'S PLAZA<br>OAK BROOK, ILLINOIS<br>60521 |                                       | DRAWN BY: P.S.<br>CHECKED BY: M.J.M.<br>DATE DRAWN: 08/10/07  | DATE ISSUED: 08/14/07<br>SCALE: AS NOTED<br>JOB NUMBER: M-1032  |           |  |  |     |      |    |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |   |  |  |