



ROOF PLAN - OVERALL
SCALE: 1/16" = 1'-0"



- KEYED PLAN NOTES:**
- VERIFY LOCATION WITH KITCHEN SUPPLIER. RUN POWER AND CONTROL WIRING TO EVAPORATOR COIL PER DRAWING SHEET E2.11.
 - RUN WIRING VIA STARTERS INSTALLED WITHIN EXHAUST HOOD CONTROL PANEL. SEE DRAWING SHEET E2.10 FOR ADDITIONAL INFORMATION.
 - ALL ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING SHEET SHALL HAVE WEATHER-PROOF ENCLOSURES.
 - RUN WIRING VIA IP-20A SWITCH IN THE KITCHEN. REFER TO DRAWING SHEET E2.11 FOR LOCATION.
 - ALL VFD'S WILL BE FURNISHED BY HVAC MANUFACTURER.

GENERAL LIGHTING PROTECTION SYSTEM INSTALLATION NOTES:

- THESE LIGHTING PROTECTION SYSTEM NOTES AND SPECIFICATIONS REPRESENT A PERFORMANCE BASED DESIGN. THE CONTRACTOR SHALL ENGAGE AND LICENSURE MASTER INSTALLER. DESIGNER TO DESIGN AND INSTALL A COMPLETE LIGHTING PROTECTION SYSTEM MEETING THE PER SPECIFICATIONS. INSTALL LIGHTING PROTECTION SYSTEM IN ACCORDANCE WITH SPECIFICATION SECTION 16870.
- CONNECTIONS TO GROUND ROD SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW GRADE.
- AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 20'-0" MAXIMUM SPACING AROUND THE ROOF PERIMETER AND WITHIN 2'-0" OUTSIDE EDGE.
- ROOF AREAS ARE TO BE PROVIDED WITH AIR TERMINALS OF SUFFICIENT QUANTITY AND HEIGHT TO INSURE THE ENTIRE ROOF AREA IS COVERED BY A ZONE-OF-PROTECTION AS AFFORDED BY A 150' RADIUS BALL, PER NFPA 780 CODE.
- GROUNDING METAL BODIES LOCATED ABOUT THE STRUCTURE SUCH AS (ANY MISCELLANEOUS EQUIPMENT WITH ELECTRICAL SERVICES, ETC. SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM UNLESS SHOWN BONDED ON THE DRAWINGS.
- BOND ALL METALLIC PIPES INCLUDING DOMESTIC WATER, FIREWATER, GAS, SEWER, STORM, ETC. WHICH ENTER THE STRUCTURE WITHIN 12' OF GRADE TO THE NEAREST DOWN LEAD.
- ALL REINFORCING STRUCTURAL FRAMING AND MISCELLANEOUS STEEL SHALL BE MADE ELECTRICAL CONTACT WITH PROPER GROUND CONNECTIONS BY WELDING, CLIPPING, BOLTING, OR OTHER APPROVED METHODS.
- TELEPHONE AND/OR ELECTRIC SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO ONE LIGHTNING PROTECTION GROUND CONNECTION POINT ON WATER PIPE.
- THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT, WORKMANLIKE, AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND WITH THE APPEARANCE OF THE BUILDING.
- NO BEND OF A CONDUCTOR SHALL BE MADE AT AN ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF LESS THAN 8".
- CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO-WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS EXCEPT SINGLE AIR TERMINALS ON TOP OF EQUIPMENT SHALL HAVE ONE PATH DOWN.
- ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NO MORE THAN 3'-0" MAXIMUM SPACING.
- ALL ADHESIVE TYPE FITTINGS SHALL BE SET IN PLACE WITH AN APPLICATION OF COMPATIBLE ADHESIVE COMPOUND BEFORE ROOF GRAVEL IS APPLIED ON BUILT-UP ROOF SYSTEMS. PROVIDE AN APPLICATION OF COMPATIBLE ADHESIVE COMPOUND ON ALL METAL ROOFS.
- ACTUAL JOB SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND CONNECTION AND/OR ROD LOCATIONS.
- BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF, ALUMINUM SIDING, OR OTHER ALUMINUM SURFACES. INSURE ALL LIGHTNING PROTECTION MATERIALS ARE COMPATIBLE PRIOR TO INSTALLATION.
- DOWN LEAD CONDUCTORS SHALL NOT BE LOCATED ON EXTERIOR OF BUILDINGS. LOCATE CONDUCTORS CONCEALED WITHIN CONCRETE BLOCKS AND THE METAL STRUCTURE.
- ALL BUILDINGS WITH BUILT UP ROOF SYSTEMS SHALL HAVE ADHESIVE BACK PADS INSTALLED AT LOCATIONS WHERE AIR TERMINALS AND CONDUCTOR ANCHORS ARE INSTALLED ON ROOF. COORDINATE WITH THE ROOFING CONTRACTOR TO ENSURE THAT PADS ARE INSTALLED IN PROPER LOCATION.
- THE LIGHTNING PROTECTION INSTALLATION SHALL COMPLY IN RESPECTS TO LIGHTNING PROTECTION INSTITUTE STANDARD 175. THE INSTALLATION SHALL BE MADE BY OR UNDER THE SUPERVISION OF A LICENSIFIED MASTER INSTALLER. SEE SPECIFICATION SECTION 16870 (LIGHTNING PROTECTION) FOR ADDITIONAL REQUIREMENTS. THE INSTALLATION SHALL MEET THE REQUIREMENTS OF UNDERWRITERS LABORATORIES STANDARD 175. THE CONTRACTOR SHALL DELIVER A MASTER LABEL UPON COMPLETION OF INSTALLATION.
- BOND ALL METALLIC COMPONENTS SUCH AS SAGES, GUTTERS, ETC. TO THE LIGHTNING PROTECTION SYSTEM IF LOCATED WITHIN 5 FEET OF A SHOWN ON THE DRAWINGS.
- PROVIDE AT LEAST TWO DOWN CONDUCTORS ON EACH STRUCTURE WHERE PERIMETER EXCEEDS 200 FEET. PROVIDE A DOWN CONDUCTOR FOR EVERY 100 FEET OF PERIMETER. SEPARATE AS WIDELY AS DOWN CONDUCTORS SHALL TERMINATE AT A DEDICATED GROUND ROD.

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