WHITE **PAPER**

DOGTOPIA

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DESIGNED & CONCEPTUALIZED BY

NY-ENGINEERS

OVERVIEW OF CHALLENGE IN THE PROJECT

Dogtopia was planning to open a new store in an existing commercial building in Garden City, New York. The place was a 1000 sq. ft. white box space with existing gas, electrical, domestic water, and sewer services provided by the base building.

Following were the challenges while designing the Dogtopia store-

- 1. The client was looking for a lowcost design by utilizing the existing services provided by the base building.
- 2. Design the MEP system by running the services from the existing service location to the new space, keeping the other existing commercial stores operational.
- 3. Design MEP system per Dogtopia design standards.

NY Engineers were focused to come up with the best possible solution which is not time-consuming and affordable to the client.

We routed the gas, sanitary and domestic water piping in the best possible manner without affecting the operations of other stores. A gas-fired tankless domestic hot water heater was provided to save cost.

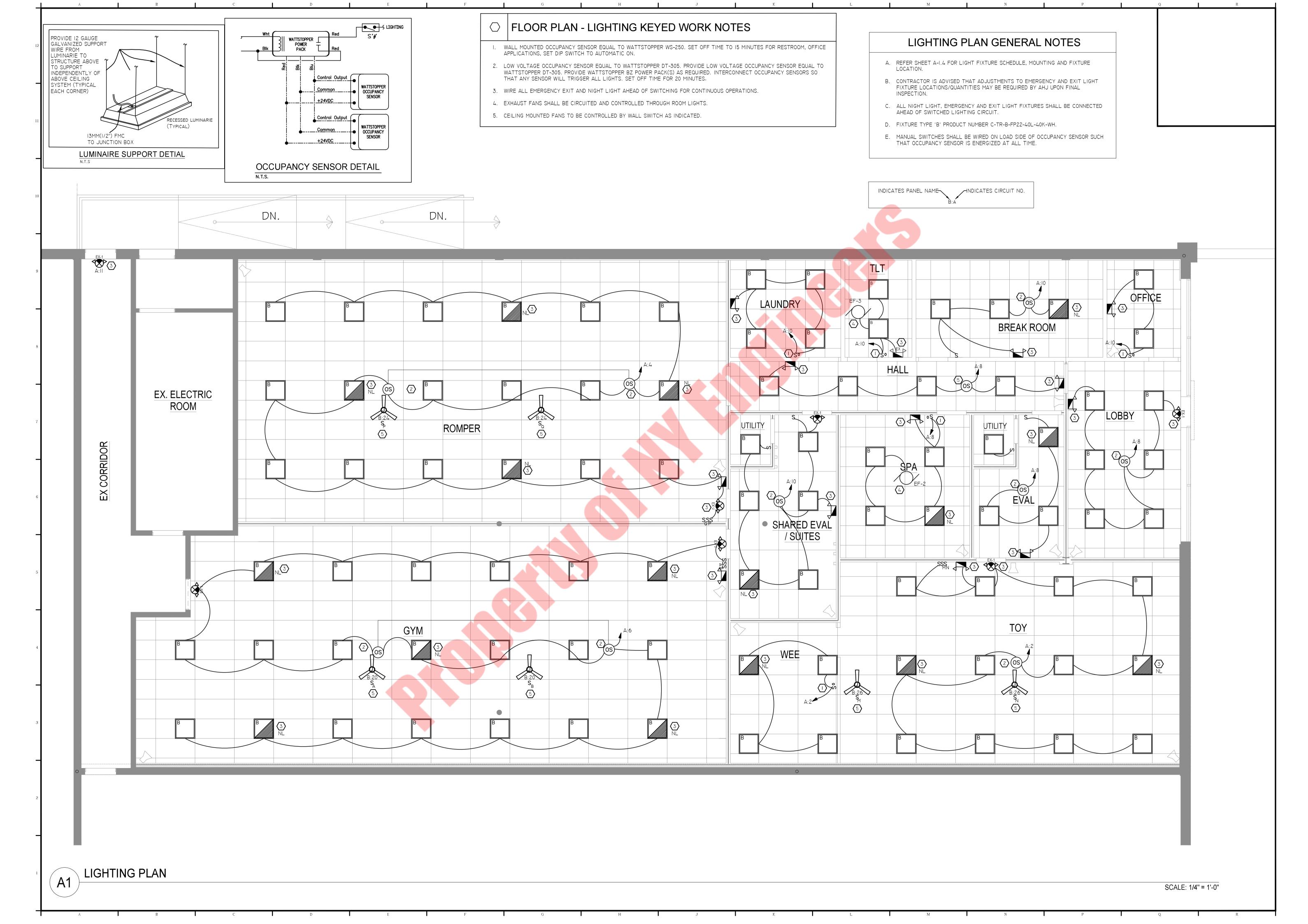
Domestic water, sanitary, and gas load were calculated and satisfied within the available existing load in compliance with all local and energy conservation requirements.

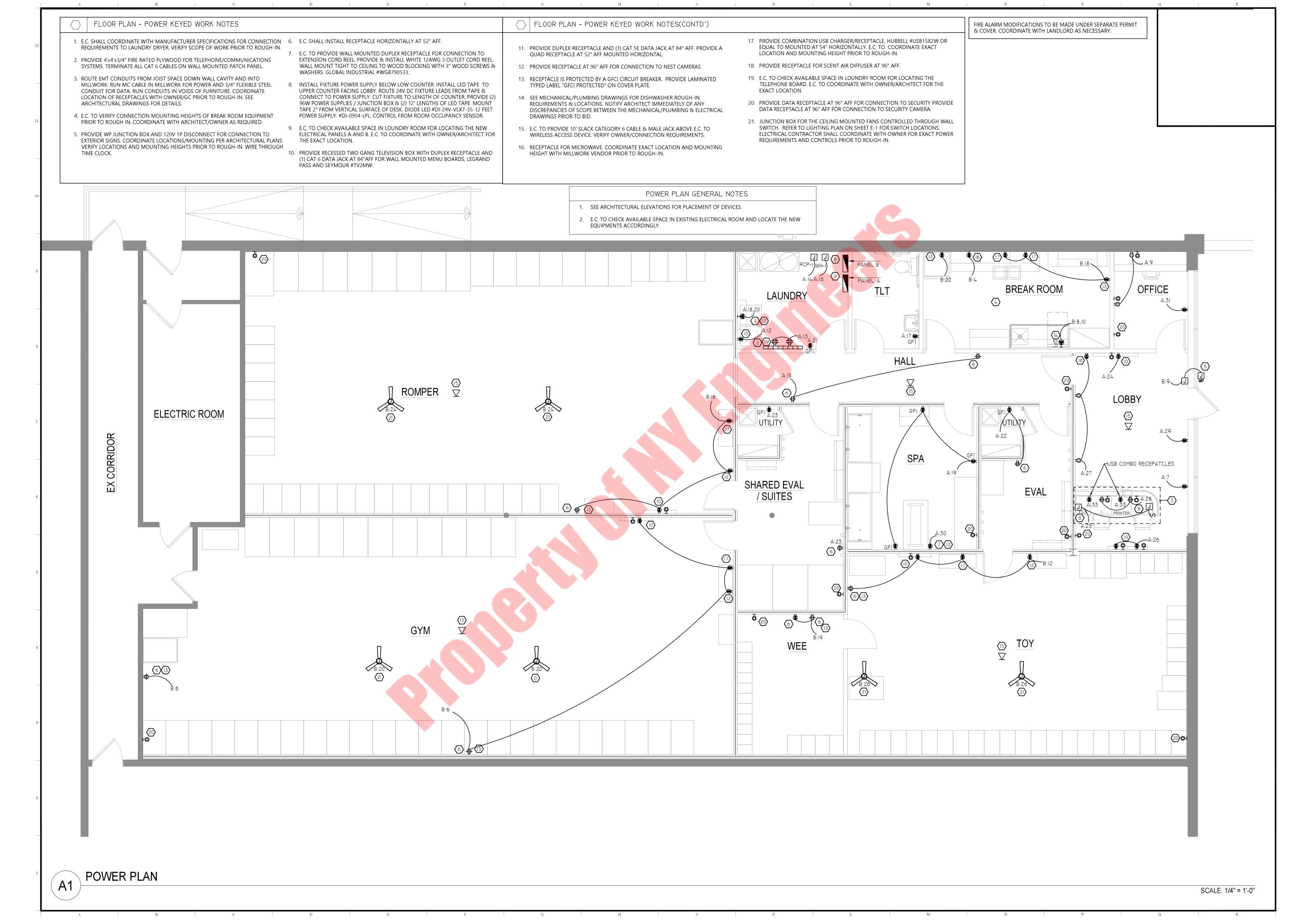
The whole MEP system for Dogtopia was designed within 2 weeks resulting in faster DOB approval and functioning before the planned timeline.

Area - 1,000 Sq. Ft. **Services Used -** Electrical,
Plumbing

YOUR ONE STOP SHOP FOR ALL MEP DESIGN NEEDS

OUR CUSTOM SOLUTION



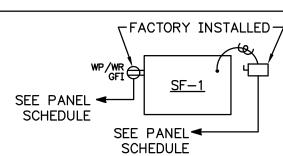


ROOF PLAN GENERAL NOTES

 ALL ELECTRICAL CONDUIT AND WIRING FOR POWER AND CONTROL OF HVAC UNITS SHALL BE THROUGH PRE-MANUFACTURED PITCH POCKETS. COORDINATE LOCATION OF PITCH POCKETS AND ROUTING OF ELECTRICAL CONDUITS WITH MECHANICAL CONTRACTOR.

ROOF PLAN NOTES

- 1. HVAC EQUIPMENT FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. HVAC EQUIPMENT SHALL BE CONTROLLED BY THERMOSTATS. E.C. SHALL PROVIDE ALL INTERCONNECTION WIRING REQUIRED. COORDINATE INSTALLATION AND WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- COORDINATE EXACT LOCATION OF HVAC EQUIPMENT ON ROOF WITH MECHANICAL CONTRACTOR.
- 3. DISCONNECT SWITCH SUPPLIED WITH EQUIPMENT.
- 4. EXHAUST FANS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. E.C. SHALL COORDINATE FOR SWITCHING AND CONTROLS AND PROVIDE ALL NECESSARY WIRING REQUIRED. REFER TO LIGHTING PLAN ON SHEET E-1 FOR CONTROL AND CIRCUIT DETAILS.



HVAC WIRING DETAILS

1. ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT, CIRCUIT BREAKER, ASSOCIATED WIRING AND CONDUIT WITH <u>MECHANICAL SHOP DRAWINGS</u> PRIOR TO ORDERING ELECTRICAL EQUIPMENT. IF SIZE(S) OF ELECTRICAL EQUIPMENT REQUIRED DIFFERS FROM WHAT IS INDICATED ON ELECTRICAL PLANS, NOTIFY ELECTRICAL ENGINEER OF CHANGES.

- 2. DO NOT LOCATE DISCONNECT SWITCHES OVER UNIT ACCESS PANELS.
- 3. PROVIDE A 3/4" EMPTY CONDUIT THROUGH INACCESSIBLE LOCATIONS (I.E. WALLS, UNDER SLAB) FOR CONTROL WIRING. COORDINATE WITH MECHANICAL PLANS.
- 4. ELECTRICAL DESIGN IS BASED ON THE MANUFACTURER AND MODEL NUMBER LISTED ON THE MECHANICAL PLANS. IF THERE IS AN EQUAL OR ALTERNATE MANUFACTURER PROVIDED, THE MECHANICAL/GENERAL CONTRACTOR SHALL BEAR ANY AND ALL ADDITIONAL COST RELATED TO THE ELECTRICAL CHANGES ASSOCIATED WITH SUCH
- 5. ELECTRICAL CONTRACTOR SHALL INSTALL ALL STARTERS FURNISHED BY MECHANICAL CONTRACTOR UNLESS STARTERS ARE SPECIFICALLY NOTED ON MECHANICAL PLANS

