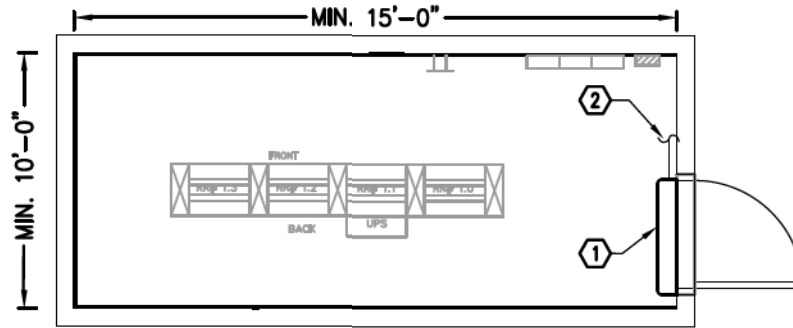


**B**

F: BDF / EQUIPMENT ROOM

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SCALE: N.T.S.

**GENERAL NOTES:**

1. BDF ROOMS MUST BE EQUIPPED WITH A SEPARATELY CONTROLLED HVAC CAPABLE OF MAINTAINING AN OFFICE ENVIRONMENT TEMPERATURE. THIS SEPARATE SYSTEM IS A SECONDARY SYSTEM. BOTH THE PRIMARY (BUILDING) SYSTEM AND THE SECONDARY SYSTEM MUST BE CAPABLE OF MAINTAINING THE PRESCRIBED ENVIRONMENTAL CONDITIONS FOR THESE TYPES OF ROOMS. A MINIMUM HEAT LOAD OF 24,000 BTU, FOR COMMUNICATIONS EQUIPMENT ONLY, CAN BE ASSUMED FOR THE BDF'S. SUFFICIENT HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) SENSORS AND EQUIPMENT MUST BE INSTALLED TO PROVIDE A CONSTANT ENVIRONMENT FOR THIS SPACE. UNLESS SPECIFIC REQUIREMENTS OTHERWISE DICTATE, THE ROOM ENVIRONMENT SHOULD APPROXIMATE AN OFFICE. THE MAXIMUM CHANGE IN TEMPERATURE MUST NOT VARY MORE THAN 5 DEGREES (F), AND HUMIDITY MUST NOT VARY MORE THAN 10 PERCENT. THE DESIGN TARGET IS A CONTINUOUS OPERATING TEMPERATURE BETWEEN 64 AND 75 DEGREES WITH 30 TO 50 PERCENT RELATIVE HUMIDITY. BOTH THE PRIMARY AND SECONDARY SYSTEM THERMOSTATS ARE TO BE PLACED ADJACENT TO EACH OTHER WITHIN THIS ROOM.
2. HVAC SYSTEMS FOR THE TELECOM ROOMS SHALL BE WIRED TO THE SERVICE PANEL IN THE RESPECTIVE TELECOM ROOM. THIS ALLOWS THE SYSTEM TO BE INCLUDED IN THE EMERGENCY POWER CONNECTION.

**KEYNOTES:**

- ① PROVIDE A MINIMUM 2.5 TON SPLIT SYSTEM DX UNIT OR EQUIVALENT; UNIT TO BE INSTALLED WITH SECONDARY CONDENSATE DRAIN AND LEAKAGE ALARM; INTEGRATE INTO BUILDING CONTROL SYSTEM
- ② CONDENSATE DISCHARGE TO BE PIPED TO APPROVED RECEPTACLE.



LONG BEACH COMMUNITY  
COLLEGE DISTRICT

LONG BEACH COMMUNITY COLLEGE DISTRICT  
FACILITY SERVICES DIVISION

DESIGN GUIDELINES BY ROOM TYPE

DISTRICT STANDARDS

TYPICAL MECHANICAL - TELECOM BDF - FLOOR PLAN

DRAWING NO.

M-BDF1.1

DATE: 18DEC2009

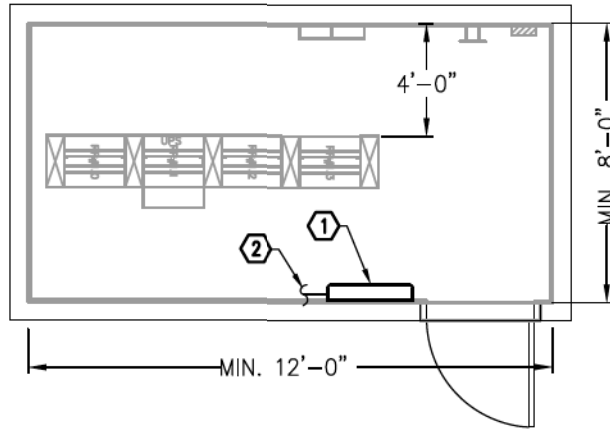
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G: IDF / TELEDATA ROOM

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**GENERAL NOTES:**

1. ENVIRONMENT EQUAL TO OR BETTER THAN A NORMAL OFFICE (74°F +/- 5°F ROOM TEMPERATURE 50% +/- 10% RELATIVE HUMIDITY); MAINTAIN POSITIVE PRESSURE ENVIRONMENT.
2. MECHANICAL HVAC REQUIREMENTS SHALL BE THE SAME REQUIREMENTS AS BDF'S LISTED EXCEPT FOR THE HEAT LOAD. ASSUME A MINIMUM HEAT LOAD OF 18,000 BTU FOR THE IDF'S. ANALYZE EQUIPMENT LOAD FOR EXACT HEAT DISSIPATION INTO SPACE.
3. HVAC SYSTEMS FOR THE TELECOM ROOMS SHALL BE WIRED TO THE SERVICE PANEL IN THE RESPECTIVE TELECOM ROOM. THIS ALLOWS THE SYSTEM TO BE INCLUDED IN THE EMERGENCY POWER CONNECTION.

**KEYNOTES:**

- ① PROVIDE A MINIMUM 2 TON SPLIT SYSTEM DX UNIT OR EQUIVALENT; UNIT TO BE INSTALLED WITH SECONDARY CONDENSATE DRAIN AND LEAKAGE ALARM; INTEGRATE INTO BUILDING CONTROL SYSTEM
- ② CONDENSATE DISCHARGE TO BE PIPED TO APPROVED RECEPTACLE.



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TYPICAL MECHANICAL - TELECOM IDF - FLOOR PLAN

DRAWING NO.

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