**DIVISION 27 COMMUNICATIONS**

**SECTION 27 11 00.10 COMMUNICATIONS ROOM BUILDING SPECIFICATIONS**

**PART 1 - GENERAL**

**1.1 COMMUNICAITONS ROOMS**

1. Telecommunication Rooms (TRs) and Entrance Facilities (EFs)
2. TRs and EFs are dedicated to providing voice and data services for both convenience and life safety. As a result the University of South Florida requires that no equipment unrelated to these services be housed in this space. A/V amplifiers, fire panels, and all building control systems that may anticipate occupying any space within shall coordinate equipment footprint with IT before doing so. Pipes, conduits, cables, etc that MUST pass through this space shall be coordinated with USF IT relative to the path they follow.

**1.2 INTERIOR**

A. Each TR and EF shall be fitted with plywood to wrap the entire room. Plywood specifications shall be a ¾” AC grade plywood with a gray fire retardant finish.

B TR and EF floors shall be finished with sealed or painted concrete floors, color gray.

C. TRs and EFs shall not be fitted with acoustical ceiling and shall contain finished walls from floor to deck above.



**1.3 ENVIRONMENT**

A. Each TR and EF room shall MAINTAIN a maximum room temp of 74 degrees Fahrenheit after all equipment has been installed. Anticipated BTU’s will be provided by USF IT to aid in calculating adequate cooling.

B. TR and EF lighting shall satisfy a minimum illumination of 50 foot-candles measured 3 feet off the floor.

C. TR and EF electrical outlets shall be included on emergency power if available.

D. TR and EF floors shall have a distributed load rating of 250 lbs per square foot.

E. A fire extinguisher shall be located in each TR and EF near the door.

F. Water and sewer facilities shall not occupy any space within the TR and EF.

G. Sprinkler pipes and cooling condensation installed in and through the TR and EF shall be installed with a drip pan below to funnel any leaking water or condensate away from racks and equipment.

**1.4 ROOM SIZE**

A. TR and EF room sizes shall be calculated as such:

1. Minimum size TR and EF serving a floor space up to 10,000 square feet shall be no less than 10 feet wide and have a depth no less than 10 feet with an out swing door. (depth shall increase by 2 feet in the event the door cannot swing out due to egress requirements.)

2. Minimum size TR and EF serving a floor space of 10,000 to 18,000 square feet shall be no less than 10 feet wide and have a depth no less than 12 feet with an out swing door. (depth shall increase by 2 feet in the event the door cannot swing out due to egress requirements.)

3. Minimum size TR and EF serving a floor space greater than 18,000 square feet shall be no less than 10 feet wide and have a depth no less than 14 feet with an out swing door. (depth shall increase by 2 feet in the event the door cannot swing out due to egress requirements.)

4. Structural building supports shall not be located in the floor space of any TR or EF. If it must, minimum size measurements shall be taken from that point to the opposing wall.

**1.5 CONDUITS & SLEEVES**

A. EFs shall have a minimum of 2 – 4” conduits from nearest communications manhole. Conduits shall be fitted with plastic bushings and be clean and dry, clear of all debris, and contain a min 250lb test pull line.

B. TRs and EFs shall contain a minimum of 3 – 4” sleeves between them. Conduits shall be fitted with plastic bushings and contain a pull string.

**PART 2 – PRODUCTS** (Not Used)

**PART 3 - EXECUTION**

**3.1 DEISGN REVIEW**

A. USF IT will provide to design team room layouts for each designated TR and EF space similar to the one below.



END OF SECTION 27 11 00.10