271600
Telecommunications Station Equipment

Related Documents
The following related sections of the OT standards shall also be applicable to this section.

OT Engineer shall approve all product cut sheets prior to purchasing and installation by contractor. ***Reference S9 Approved Products.***

S1 Approved Product Request
S1 Change Request
S1 Request for Variance
S1 Resource Allocation Permit
S2 Introduction
S3 SOP and Policy
S5 270000X Telecommunications Systems (Boiler Plate)
S7 270000-TC Common Work
S7 270100-TC Systems Cabling
S7 270526-TC Grounding and Bonding
S7 270528-TC Hangers and Support
S7 270553-TC Identification
S7 270555-TC OT Facility Warning Standard
S7 271116-TC Cabinets Racks Frame Enclosures
S7 271119-TC Termination Blocks and Patch Panels
S7 271313-TC Cable Splicing and Termination
S7 271323-TC Optical Fiber Splicing and Terminations
S7 271519-TC Horizontal Cabling
S7 271525- TC Tenant and Airlines Extended DEMARC
S7 271543-TC Faceplates and Connectors
S7 271601-TC Courtesy Phone Backboard
S8 E911 PS ALI Standard
S9 Approved Products

Part 1 - General

Telecommunications Station Equipment (TSE) is any device connected to or interfaced with the telecommunications network at the MAA or Local Exchange Carrier (LEC) or Wireless Exchange Carrier (WEC). Some common examples are Courtesy Phones, call boxes and elevator phones.

TSE is considered Life Safety devices.

No TSE shall be designed into a project, location Moved, Added or Changed (MAC) location(s) unless approved by OT Engineer.

1.1 Work Included

A. Provide all labor, materials, tools and equipment required for the complete installation of work called for in the Construction Documents

1.2 Scope of Work

A. This document describes the products and execution requirements relating to furnishing and installation of Telecommunications Station Equipment (TSE).

B. All cables and related terminations, support and grounding hardware shall be furnished, installed, wired, tested, labeled, and documented by the telecommunications contractor as detailed in this document.

C. Product specifications, general design considerations, and installation guidelines are provided in this document. Quantities of TSE, typical installation details, cable routing and outlet types shall be by manufactures specification.

D. All Telecommunications Services (dial tone services) shall be In Accordance with (IAW) NENA

E. Common Place Names (CPN) shall be approved by the OT Manager of Telecommunications or designee.

F. Location(s) of all TSE shall be approved by OT.

G. All TSE shall be approved by OT Engineer

1.3 Regulatory References

A. The following industry standards are the basis for the TSE system described in this document.

1. **NFPA**
   - NFPA-70 National Electric Code (NEC)

2. **IBC** **Areas of Refuge**

   - Section 1007.6.3
   - Section 1007.8.1
   - Section 1007.8.2.

3. **ADA**

   Part 36, section 4.31

4. **(NENA)** National Emergency Number Association Enhanced 911

5. **9-1-1 Act** FCC Wireless Communications and Public Safety Act of 1999

Part 2 - Products

See Section 9- Approved Products

2.1 Courtesy Phone

A. TSE shall also include the Back Board. ***See S7 271601 TC Courtesy Phone Backboard Standard***
B. TSE shall have approved location signage.
C. TSE shall be installed within 4 feet of all Automated External Defibrillators (AED)
D. TSE shall be located so that when standing at one the next TSE can be seen
E. TSE shall not be installed into recessed wall or alcove.
F. Relocation of existing TSE(s) may be required by OT Engineer to meet requirement D.
G. The exposed TSE shall be white in color or stainless steel the handset shall be Black in color.
H. Mounting height (48 inches above finished floor) shall be measured to the center of the #2 key of the TSE key pad. Center line shall also be the center of the #2 key of the TSE key pad

2.2 Emergency Call Box (Terminal, one button)

A. TSE shall be 100% compatible with existing MAA remote device management platform.
B. TSE shall be red in color
C. TSE shall have one Emergency button
D. TSE shall be installed in all Refuge Areas
E. TSE shall be installed in all enclosed fire rated egress stairs regardless of whether they are area of refuge. The device shall be installed per Fire Marshal direction.
F. Mounting height (48 inches above finished floor) shall be measured to the center of the highest button on the TSE.

2.3 Emergency Call Box (Garage, 2 Button)

A. TSE shall be 100% compatible with existing MAA remote device management platform.
B. TSE shall be stainless Steel
C. TSE shall have one Emergency button and one Help button
D. Mounting height (48 inches above finished floor) shall be measured to the center of the highest button of the TSE.

2.4 Emergency Cellular Call Box

A. TSE shall be 100% compatible with existing MAA remote device management platform.
B. TSE shall have one Emergency button and one Help button
C. Mounting height (48 inches above finished floor) shall be measured to the center of the highest button of the TSE.
D. Cellular Service Provider shall be approved by OT
E. DC power source shall be solar powered.

Part 3 - Execution

1. Provide (1) Category 6 (CAT 6). for Voice distribution cables running from approved outlet location back to the specified location in the Communications Room (Distribution Frame) using the cable tray and conduit infrastructure.
2. Terminate each Category 6 (Cat-6) distribution cable at each end on specified terminations, terminations shall be the 568B wiring scheme.
3. faceplate shall be stainless steel