



CI-0704

TAB 7: TECHNICAL DISCIPLINES

Communications

S4 DIGITAL SIGNS

DESIGN REQUIREMENTS

- > Each S4 Digital Sign location must be shown on the electrical drawings and must include data and electrical outlet locations as well as any enclosures or other infrastructure associated with these signs.
- > Monitors: (Use current IT standard):
- > Digital Media Player (DMP):(Use current IT standard)

CONNECTIVITY

- > Each of these devices requires a minimum of one network outlet. These network outlets are to be cabled back to the nearest telecommunications room network rack and terminated as per the copper horizontal cabling standard.
- > CAT6 for devices placed within 90m from the Communications (Hub) Room
- > Multimode 6 strand fiber for installation beyond the 90m mark
- > Transceivers: GE D7100 Series IFS 10/100 Mbps or approved equal

NEMA ENCLOSURE

- > NEMA/EEMAC Type 4X IP-65 with solid door capable to accept box lock requested by IT Field Services, and physically separated into two compartments to isolate power from communications devices.
- > BEL R SS Series EEMAC/NEMA 4-4x-12 / IP-65 or Hoffman CONCEPT™ Type 4x or any other box meeting NEMA Type 4X IP-65, physical separation capabilities and box lock requirements.
- > The enclosure size selection shall be based on the electrical and electronic equipment to be housed inside the box.

CONDUIT

- > One conduit for power and separate conduit for data 2" from the electrical room or communications (hub) room all the way to the last pull point before the device 1" from the last pull point to the device
- > Follow DRM in terms of conduit selection (PVC for buried conduit, epoxy coated for rust prone locations such as tunnels, etc) 2" liquidtight conduits from the NEMA enclosure to the monitor mounting bracket. Provided with drip loops and easy release on the NEMA enclosure side.

POWER

- > Dedicated single 20amp duplex receptacle for indoor locations.
- > Outdoor locations require sizing based on external enclosure and screen power draws. All outdoor outlets must be GFI Type receptacle which may be reset at the NEMA enclosure. This is to be coordinated at time of design and must adhere to DRM for outdoor outlets.



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- > UPS backed-up. If the existing UPS does not provide enough capacity or if there is no UPS whatsoever, provide a Surge Protection Device in the local panel where the monitor and DMP is fed from. This device shall be appropriate for the specific panel at each location.