



CI-0203

### TAB 2: SITE INFRASTRUCTURE AND DEVELOPMENT Parking Infrastructure

- > Refer to GO “Station Electrical Room Standard” in the Design Requirements Manual for detailed guidelines.

#### **COMMUNICATIONS/HUB ROOM**

- > In Parking Structures, careful planning is required when locating the Communications and Hub Rooms. Attention must be paid to equipment placement within these rooms in relation to the structural ceiling elements. The required vertical clearance above the racks must also be taken into account. Ideally, cable trays shall be kept level, precast openings in structural “T’s” as determined by the structural engineer, to get to the side walls of the room.
- > Cable trays may be routed around structural ceiling elements if needed, however, shall not be installed lower than 2.0m A.F.F.
- > Unless otherwise requested, the racks shall be installed in the preferred configuration shown in the Information Technology Telecommunications & Systems Document (Appendix A of the DRM)
- > For detailed Communication/Hub room guidelines in Multilevel Parking Structures, refer to DRM TAB 7.

#### **SERVICE & MAINTENANCE AREA – STORAGE/SERVICE ROOM**

- > A designated storage area in the parking structure should be provided. The room(s) can be used to accommodate service equipment; sweeper storage and tools in a secure location.
- > The room(s) shall be accessed by a double leaf Hollow Metal (HM) door and the doors shall not open onto vehicular traffic; a concrete apron shall be provided with bollards to protect egress of service personnel onto the drive aisle.
- > Service rooms shall contain sprinklers, water valves, switches and mechanisms, etc.
- > Rooms that contain temperature sensitive equipment shall be insulated and shall require special design.

#### **ELECTRICAL SERVICES AND DESIGN CRITERIA**

- > Investigate impact of parking structure on the existing electrical service because the existing service may not accommodate the additional load. Refer to the DRM for detailed requirements.
- > Energy Management System/ Smart Panels should provide the most flexible control system available: multi-level lighting, occupancy lighting changes, light harvesting, programmable