



Parking Structure Functional Design Services

Functional Design Services

1. Parking Deck Footprint and Size
2. Deck Expansion Flexibilities
3. Adjacent Street Traffic Impacts and Improvements
4. Entrance/Exit Locations
5. Type of Parking Equipment Operation
 - a. Access Control System
 - b. Revenue Control System
6. Vehicular Circulation Recommendations
7. Parking Geometrics
8. Provisions for Parking Space Downsizing - Clear Span
9. Pedestrian Circulation Recommendations
 - a. Within Parking Area
 - b. Main Elevator/Stair Tower
 - c. Fire Exits
10. Structural Durability Considerations
 - a. Volume Change Restraints
 - b. Resistance to Humidity and Salt Environment
11. Waterproofing
 - a. Penetrating Sealers
 - b. Deck Coatings
 - c. Crack Control and Expansion Joints
12. Maintenance-free Design Consultation
13. Security Consultation
 - a. Passive Design Features
 - b. Architectural Items
 - c. Lighting
 - d. Audio Surveillance
 - e. TV Monitors
 - f. Glass-backed Elevator/Glass Stair Towers
 - g. Security Screening
14. Signage and Graphics Design
 - a. Location and Verbiage
 - b. Details and Specifications
15. Drainage/Fire Protection Consultation (with Mechanical Engineer)
 - a. Drain Locations
 - b. Standpipes Location
 - c. Sprinklers
 - d. Ventilation
 - e. Wash Down Water Locations
16. Lighting Consultation (with Electrical Engineer)
 - a. Lighting Location and Intensity
 - b. Switching Sequence - Timers/Sun Switches
17. Operational and Maintenance Procedures/Manual
18. Building Code Verification
 - a. Standard Building Code
 - b. State / County / City Codes
 - c. ADA Conformance

