

PARKING DESIGN CRITERIA

CITY OF SIOUX FALLS, SD



21-4074.00

GENERAL REQUIREMENTS

1. All stalls shall be painted to allow for a minimum stall width of 9'-0".
2. Parking bays shall have minimum clear dimensions measured from wall to wall. The following minimum stall size and bay width for parking bays with on both sides of the drive aisle shall have the following minimum dimensions:

| Stall Width = | 9' - 0" | |
|---------------|------------------|--------------|
| Angle of Park | Min. Aisle (ft.) | Module (ft.) |
| 45° | 14' - 0" | 48' - 10" |
| 50° | 14' - 3" | 50' - 3" |
| 55° | 14' - 8" | 51' - 6" |
| 60° | 15' - 6" | 53' - 0" |
| 65° | 16' - 5" | 54' - 3" |
| 70° | 17' - 6" | 55' - 6" |
| 75° | 18' - 10" | 56' - 6" |
| 90° | 25' - 0" | 60' - 6" |

Columns shall not intrude more than 2'-0" into parking spaces.

3. Drive aisles shall maintain functional use at turning bays. Turning bays shall provide a minimum of:
 - a. Two-way traffic with 90-degree spaces: 28'-6" clear between columns (two-lanes, concentric turning)
 - b. One-way traffic with angled spaces: minimum of 16'-6" clear between columns (one lane) or the drive aisle width.
4. Accessible spaces shall be provided as required by standards established by the Americans with Disabilities Act Standards for Accessible Design. Van accessible spaces shall be provided at a ratio of 6:1.
5. Typical clearance for vehicles shall be 8'-2" clear minimum. Recommended floor-to-floor height shall be 11'-4" and be coordinated to respect adjacent buildings or skyways.
6. Parking areas shall not exceed 6.5% slope.
7. Entrance ramps and other non-parking floors shall not exceed 12% slope.