EQUATIONS FOR CALCULATING
STALL DIMENSIONS

\[ S = \frac{W}{\sin \theta} \]
\[ R = \frac{W}{\tan \theta} \]
\[ D = (L + R) \sin \theta \]

FOR ONE DIRECTION AISLE:
\[ A = B \sin \theta, \quad \text{min} = 12' \]

FOR TWO DIRECTION AISLE:
\[ A = B \sin \theta, \quad \text{min} = 22' \]

COMPACT STALLS:
\[ W = 8', \quad L = 17', \quad B = 22' \]

STANDARD STALLS:
\[ W = 8'6'', \quad L = 18', \quad B = 24' \]

\[ B = \text{BACKUP DISTANCE} \]

MINIMUM PARKING LOT DIMENSIONS (in ft.)

<table>
<thead>
<tr>
<th>\theta</th>
<th>S</th>
<th>R</th>
<th>D</th>
<th>A (1 DIR)</th>
<th>A (2 DIR)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COM</td>
<td>STD</td>
<td>COM</td>
<td>STD</td>
<td>COM</td>
</tr>
<tr>
<td>0°</td>
<td>21</td>
<td>22</td>
<td>0</td>
<td>0</td>
<td>7.0</td>
</tr>
<tr>
<td>30°</td>
<td>16.0</td>
<td>17.0</td>
<td>13.9</td>
<td>14.7</td>
<td>15.5</td>
</tr>
<tr>
<td>45°</td>
<td>11.3</td>
<td>12.0</td>
<td>8.0</td>
<td>8.5</td>
<td>17.7</td>
</tr>
<tr>
<td>60°</td>
<td>9.2</td>
<td>9.8</td>
<td>4.6</td>
<td>4.9</td>
<td>18.7</td>
</tr>
<tr>
<td>90°</td>
<td>8.0</td>
<td>8.5</td>
<td>0</td>
<td>0</td>
<td>17.0</td>
</tr>
</tbody>
</table>

CITY OF SAN MATEO
PARKING STANDARDS
PARKING LOT DIMENSIONS

DATE | DRAWN BY | CHECKED | APPROVED | CASE | DRAWER | SET
---|---|---|---|---|---|---
DEC '85 | DMB | E.B. | | | 3 | 1 | 190

CITY ENGINEER
CALIFORNIA 94403
STANDARD STALLS

(CONFINED STALLS, RESTRICTED STALLS, TWO ADJACENT RESTRICTED OR END STALLS)

FOR ADDITIONAL INFO:
SEE S.M.M.C. Chapter 27.64
OFF-STREET PARKING AND LOADING

PLANTING AREA

SIDEWALK

FOR ADDITIONAL INFO:
SEE S.M.M.C. Chapter 27.64
OFF-STREET PARKING AND LOADING

PERMISSIBLE BUMPER OVERHANG

PARKING STANDARDS
PARKING LOT LAYOUTS
SAN MATEO, CALIF.

DATE: 6/86
DRAWN BY: K.K.L.
CHECKED BY: 
APPROVED:

PLAN CASE: 3
DRAWER: 1
SHEET: 191
NOTE: SUFFICIENT AREA WILL BE PROVIDED NEAR THE END OF DEAD-END AISLES FOR TURN AROUND UNDER FULL LOT CONDITIONS.

DEAD-END AISLES

HANDICAPPED PARKING

NOTE:

1 8' PASSENGER LOADING ZONE REQUIRED FOR VAN ACCESSIBLE SPACES. LOADING ZONE ON PASSENGER'S SIDE OF STALL UNLESS SHARED.
DOUBLE STRIPING

NOTE: 4" STRIPE APPROXIMATELY 18" APART WITH ROUNDED OR SQUARED ENDS

STALL DOUBLE STRIPING DETAIL

SEE SHEET 3-1-190
ONE WAY

△ RADIUS TO CURBS LOWER THAN 6” (WHEEL RADIUS)
△ RADIUS TO COLUMNS, WALLS OR STRUCTURES. (BODY OVERHANG RADIUS)

TWO WAY

FOR ADDITIONAL INFORMATION:
SEE S.M.M.C. CHAPTER 27.64
OFF-STREET PARKING AND LOADING

MIN. WIDTH FOR RAMPS - TWO-WAY 24’ CURB TO CURB; 28’ WALL TO WALL
ONE-WAY 12’ CURB TO CURB; 16’ WALL TO WALL.