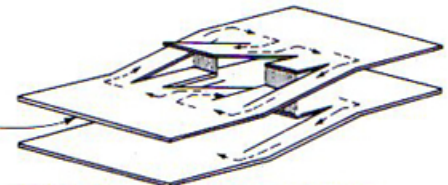
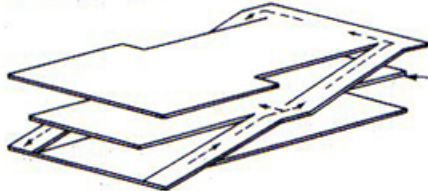


STAGGERED FLOORS - ONE - WAY CIRCULATION

AMPLE RAMP WIDTH AND TURNING CLEARANCE IS RECOMMENDED



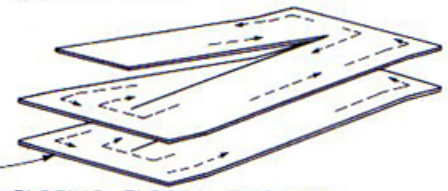
STAGGERED FLOORS - TWO - WAY CENTER RAMP



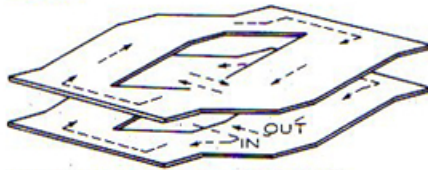
FLAT FLOORS - STRAIGHT, ONE - WAY RAMPS

LIMITED TO 2 OR 3 STORY STRUCTURES

VERY ECONOMICAL 90° PARKING RECOMMENDED

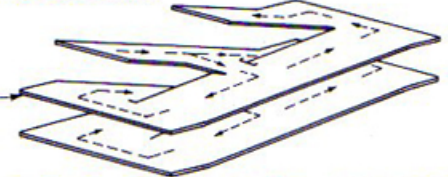


SLOPING FLOORS - TWO - WAY CIRCULATION

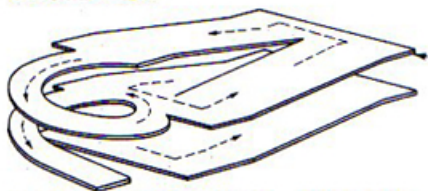


SLOPING FLOORS - ONE - WAY CIRCULATION

ECONOMICAL AND SUITED TO LONG SITES



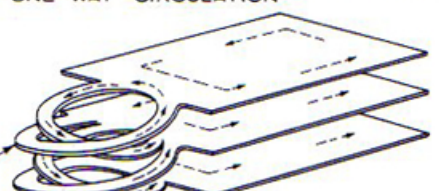
SLOPING FLOORS - CROSS CONNECTION ONE - WAY CIRCULATION



SLOPING FLOOR WITH EXPRESS HELICAL DOWN RAMP

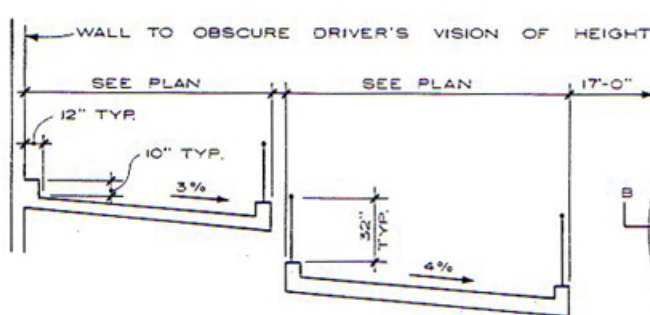
ANGLE PARKING AND EXPRESS EXIT RECOMMENDED FOR SHORT TERM PARKING USE

AUTOMATIC CONTROLS RECOMMENDED TO GUIDE PARKERS TO CORRECT LEVEL

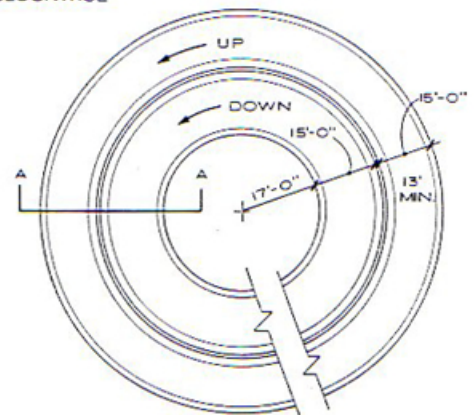
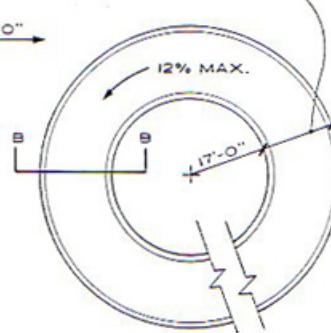


CONCENTRIC OPPOSED PLANE HELICAL RAMPS

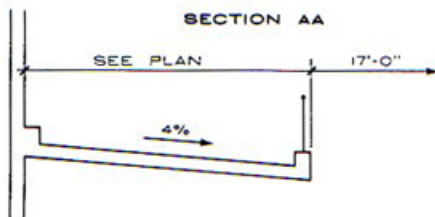
TYPICAL RAMP SYSTEMS



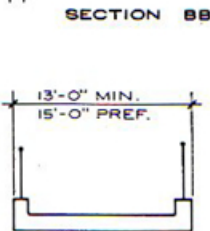
15'-0" WIDE FOR COUNTERCLOCKWISE TRAVEL. 20'-0" WIDE FOR CLOCKWISE TRAVEL



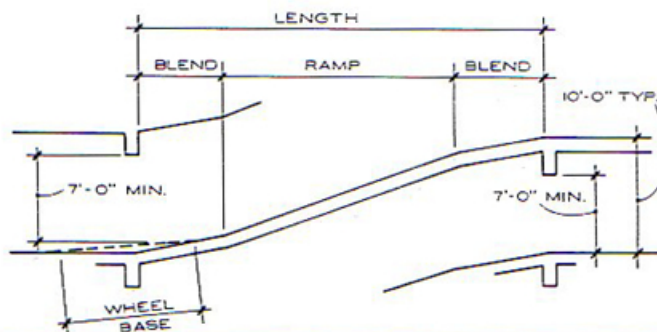
SINGLE AND DOUBLE HELICAL RAMPS



SECTION AA



SECTION BB



TYPICAL STRAIGHT RAMP

STRAIGHT RAMPS

Length	<65'-0"	>65'-0"
Blend length	10'-0"	8'-0"
Blend slope	8%	6%
Ramp slope	16%	12%

NOTES

1. Provide good visibility at entrances and exits for both pedestrians and traffic. Consider impact of parking garage traffic on street traffic. Check local codes for lighting, ventilation, and screening requirements.
2. Parking garages often are included in mixed use structures.
3. Ramp lengths relate to vertical rise between levels. Maintain Board of Minimum Clearance cars.

TYPICAL RAMP DETAILS

William T. Mahan, AIA; Santa Barbara, California

District of Columbia
CASE NO.18785
EXHIBIT NO.57B