

4.6 PARKING AND PASSENGER LOADING ZONES.

4.6.1 MINIMUM NUMBER. PARKING SPACES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.6.2 THROUGH 4.6.4. PASSENGER LOADING ZONES REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.6.5 AND 4.6.6.

4.6.2 LOCATION. ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE. THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE ENTRANCE OF THE BUILDING. ACCESSIBLE ENTRANCES WITH ADJACENT PARKING, ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AND LOCATED CLOSEST TO THE ACCESSIBLE ENTRANCES.

4.6.3 PARKING SPACES. PARKING SPACES FOR DISABLED PEOPLE SHALL BE AT LEAST 9'0" (2743 mm) WIDE AND SHALL HAVE AN ADJACENT ACCESSIBLE ROUTE TO THE BUILDING OR TO AN ACCESSIBLE ENTRANCE. ACCESSIBLE ROUTES SHALL BE AT LEAST 4'8" (1433 mm) WIDE MINIMUM. PARKING SPACES SHALL BE PART OF AN ACCESSIBLE ROUTE TO THE BUILDING OR TO AN ACCESSIBLE ENTRANCE AND SHALL COMPLY WITH 4.3. TWO ACCESSIBLE PARKING SPACES MAY FACILITY ENTRANCE AND ACCESSIBLE ROUTE. PARKED VEHICLES OVERHANGING SHALL REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE. PARKING SPACES AND ACCESSIBLE ROUTES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

EXCEPTION: IF ACCESSIBLE PARKING SPACES FOR VANS DESIGNED FOR HANDICAPPED PERSONS ARE PROVIDED, EACH SHOULD HAVE AN ADJACENT ACCESSIBLE ROUTE AT LEAST 9'0" (2743 mm) WIDE COMPLYING WITH 4.5, GROUND AND FLOOR SURFACES.

4.6.4 SIGNAGE. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED FOR THE DISABLED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY (SEE 4.30.5). SUCH SIGNS SHALL NOT BE OCCUPIED BY A VEHICLE PASSED IN THE SPACE.

4.6.5 PASSENGER LOADING ZONES. PASSENGER LOADING ZONES SHALL PROVIDE AN ACCESSIBLE AISLE AT LEAST 6'0" (1829 mm) WIDE AND 30" (762 mm) LONG ADJACENT AND PARALLEL TO THE VEHICLE FULL-UP SPACE (SEE FIG. 10). IF THERE ARE CURBS BETWEEN THE ACCESSIBLE AISLE AND THE VEHICLE FULL-UP SPACE, THEN A CURB RAMP COMPLYING WITH 4.7 SHALL BE PROVIDED. VEHICLE STANDING SPACES AND ACCESSIBLE SPACES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

4.6.6 VERTICAL CLEARANCE. PASSENGER LOADING ZONES SHALL PROVIDE AN ACCESSIBLE AISLE AT LEAST 6'0" (1829 mm) WIDE AND 30" (762 mm) LONG ADJACENT AND PARALLEL TO THE VEHICLE FULL-UP SPACE (SEE FIG. 10). IF THERE ARE CURBS BETWEEN THE ACCESSIBLE AISLE AND THE VEHICLE FULL-UP SPACE, THEN A CURB RAMP COMPLYING WITH 4.7 SHALL BE PROVIDED. VEHICLE STANDING SPACES AND ACCESSIBLE SPACES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

4.7 CURB RAMPS.

4.7.1 LOCATION. CURB RAMPS COMPLYING WITH 4.7 SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.

4.7.2 SLOPE. SLOPES OF CURB RAMPS SHALL COMPLY WITH 4.8.2. THE SLOPE SHALL BE MEASURED AS SHOWN IN FIG. 11. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. MAXIMUM SLOPES OF ADJOINING CURBS, ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTES SHALL NOT EXCEED 1:20.

4.7.3 WIDTH. THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 36", EXCLUSIVE OF FLARED SIDES.

4.7.4 SURFACE. SURFACES OF CURB RAMPS SHALL COMPLY WITH 4.5.

4.7.5 SIDES OF CURB RAMPS. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, THEN IT SHALL HAVE FLARED SIDES. THE MAXIMUM SLOPE OF FLARED SIDES SHALL BE 1:10 (SEE FIG. 12). CURB RAMPS WITH RETURNED CURBS MAY BE USED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP (SEE FIG. 12(b)).

4.7.6 BUILT-UP CURB RAMPS. BUILT-UP CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES (SEE FIG. 13).

4.7.7 WARNING TEXTURES. (REMOVED & RESERVED.)

4.7.8 OBSTRUCTIONS. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.

4.7.9 LOCATION AT MARKED CROSSINGS. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.

4.7.10 DIAGONAL CURB RAMPS. IF DIAGONAL (OR CORNER TYPE) CURB RAMPS HAVE RETURNED CURBS OR OTHER WELL-DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL FROM THE CURB RAMP. IF THE EDGES ARE NOT PARALLEL TO THE DIRECTION OF TRAVEL, THE 48" (1219 mm) CLEAR SPACE SHALL BE WITHIN THE MARKINGS. IF DIAGONAL CURB RAMPS HAVE FLARED SIDES, THE FLARED SIDES SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL. IF A CURB RAMP IS LOCATED AT A CROSSING, THE 48" (1219 mm) CLEAR SPACE SHALL BE WITHIN THE MARKINGS.

4.7.11 ISLANDS. ANY RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 4'8" (1433 mm) LONG IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSING.

4.7.12 UNCURBED INTERSECTIONS. (REMOVED & RESERVED.)

4.8 RAMPS.

4.8.1 GENERAL. ANY PART OF AN ACCESSIBLE ROUTE WITH A SLOPE GREATER THAN 1:20 SHALL BE CONSIDERED A RAMP AND SHALL COMPLY WITH 4.8.

4.8.2 SLOPE & RISE. THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12. THE MAXIMUM RISE FOR ANY RAMP SHALL BE 30" (762 mm) TO BE CONSTRUCTED ON EXISTING OR EXISTING SITES OR IN EXISTING BUILDINGS OR FACILITIES MAY HAVE SLOPES AND RISE AS SHOWN IN TABLE 2. IF SPACE LIMITATIONS PROHIBIT THE USE OF A 1:12 SLOPE OR LESS (SEE 4.1.6).

4.8.3 CLEAR WIDTHS. THE MINIMUM CLEAR WIDTH OF A RAMP SHALL BE 36" (914 mm).

4.8.4 LANDINGS. RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RUN. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:
(1) THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.
(2) THE LANDING LENGTH SHALL BE A MINIMUM OF 60" (1525 mm) CLEAR.
(3) IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60" BY 60" (1525 mm) BY (1525 mm).
(4) IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY WITH 4.13.6.

4.8.5 HANDRAILS. IF A RAMP HAS A RISE GREATER THAN 1:20 (250 mm) OR A HORIZONTAL PROJECTION GREATER THAN 7'2" (2191 mm) THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS SHALL COMPLY WITH 4.9.5 AND SHALL HAVE THE FOLLOWING FEATURES:
(1) HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGGLE RAMPS SHALL ALWAYS BE CONTINUOUS.
(2) IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" (305 mm) BEYOND THE TOP AND BOTTOM OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.
(3) THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1-1/2" (38 mm).
(4) GRIPPING SURFACES SHALL BE CONTINUOUS.
(5) TOP OF HANDRAIL GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 30" & 34" (762 mm & 863 mm) ABOVE RAMP SURFACES.
(6) ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL OR POST.
(7) HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

4.8.6 CROSS SLOPE & SURFACES. THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50. RAMP SURFACES SHALL COMPLY WITH 4.5.

4.8.7 EDGE PROTECTION. RAMPS AND LANDINGS WITH DROP-OFFS SHALL HAVE CURBS, WALLS, RAILINGS, OR PROTECTING SURFACES THAT PREVENT PEOPLE FROM SLIPPING OFF THE RAMP. CURBS SHALL BE A MINIMUM OF 2" (51 mm) HIGH (SEE FIG. 17).

4.8.8 OUTDOOR CONDITIONS. OUTDOOR RAMPS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

4.8.9 STAIRS. (REMOVED & RESERVED.)

4.8.10 STAIRS. (REMOVED & RESERVED.)

4.8.11 STAIRS. (REMOVED & RESERVED.)

4.8.12 STAIRS. (REMOVED & RESERVED.)

4.8.13 STAIRS. (REMOVED & RESERVED.)

4.8.14 STAIRS. (REMOVED & RESERVED.)

4.8.15 STAIRS. (REMOVED & RESERVED.)

4.8.16 STAIRS. (REMOVED & RESERVED.)

4.8.17 STAIRS. (REMOVED & RESERVED.)

4.8.18 STAIRS. (REMOVED & RESERVED.)

4.8.19 STAIRS. (REMOVED & RESERVED.)

4.8.20 STAIRS. (REMOVED & RESERVED.)

4.8.21 STAIRS. (REMOVED & RESERVED.)

4.8.22 STAIRS. (REMOVED & RESERVED.)

4.8.23 STAIRS. (REMOVED & RESERVED.)

4.8.24 STAIRS. (REMOVED & RESERVED.)

4.8.25 STAIRS. (REMOVED & RESERVED.)

4.8.26 STAIRS. (REMOVED & RESERVED.)

4.8.27 STAIRS. (REMOVED & RESERVED.)

4.8.28 STAIRS. (REMOVED & RESERVED.)

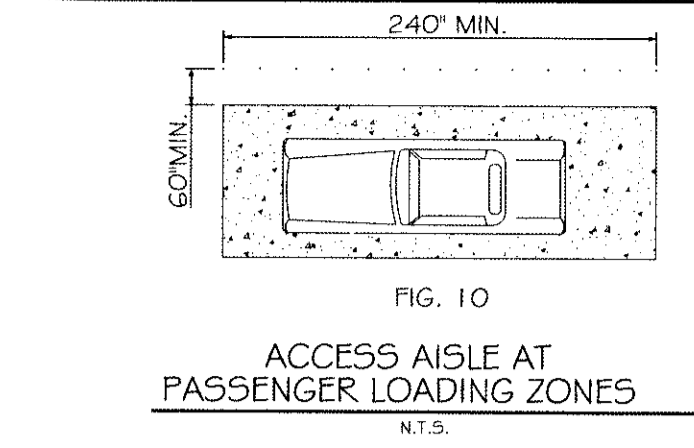


FIG. 10 ACCESS AISLE AT PASSENGER LOADING ZONES N.T.S.

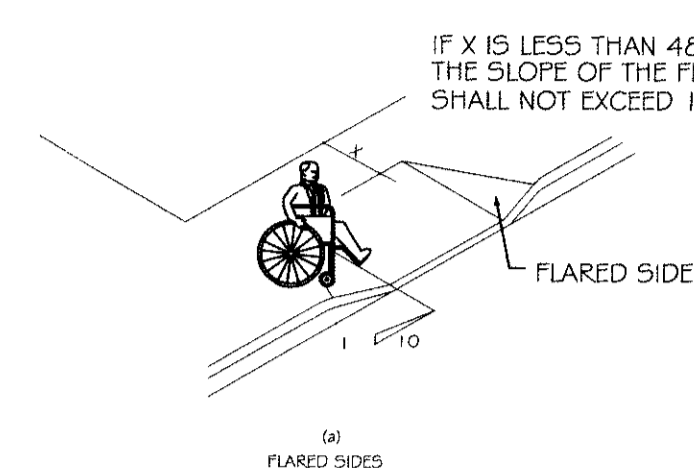


FIG. 12 SIDES OF CURB RAMPS N.T.S.

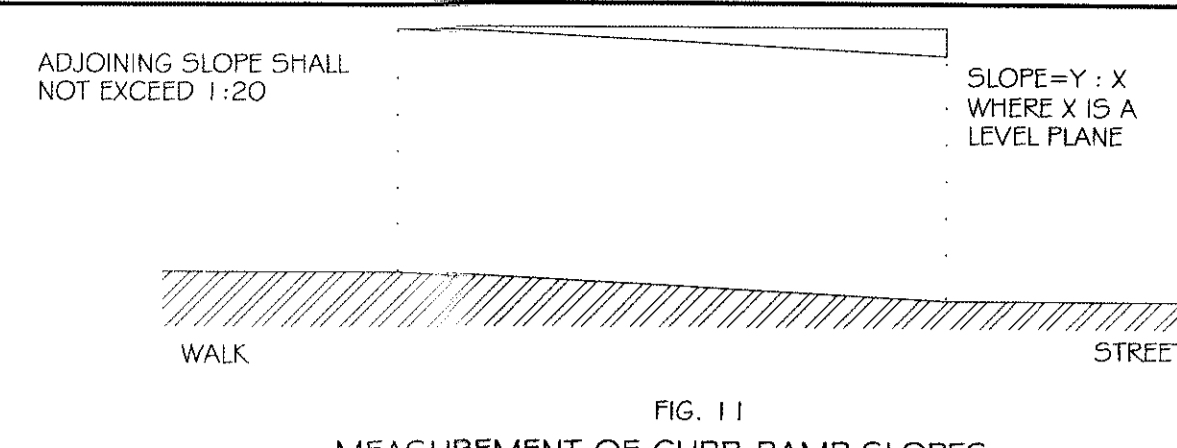


FIG. 11 MEASUREMENT OF CURB RAMP SLOPES N.T.S.

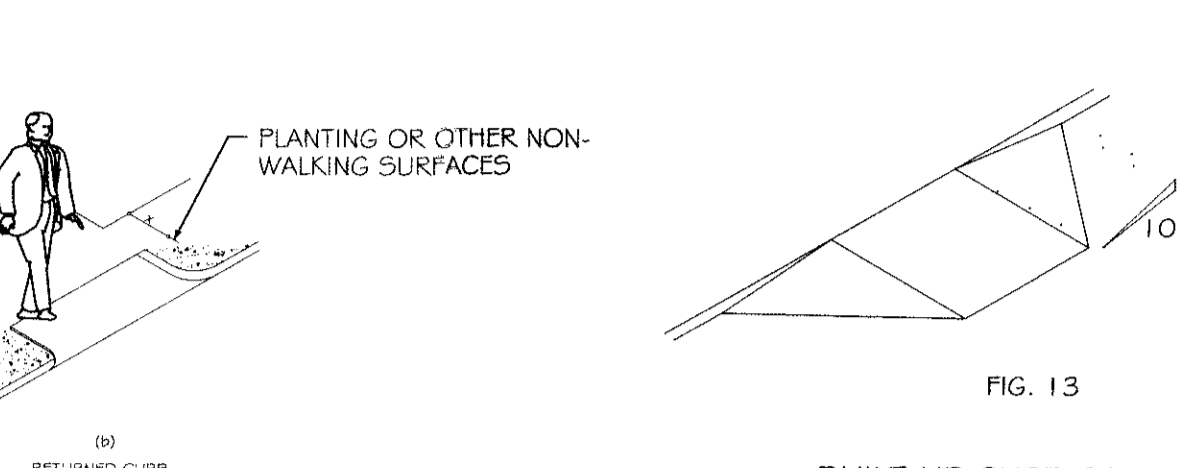


FIG. 13 BUILT-UP CURB RAMP N.T.S.

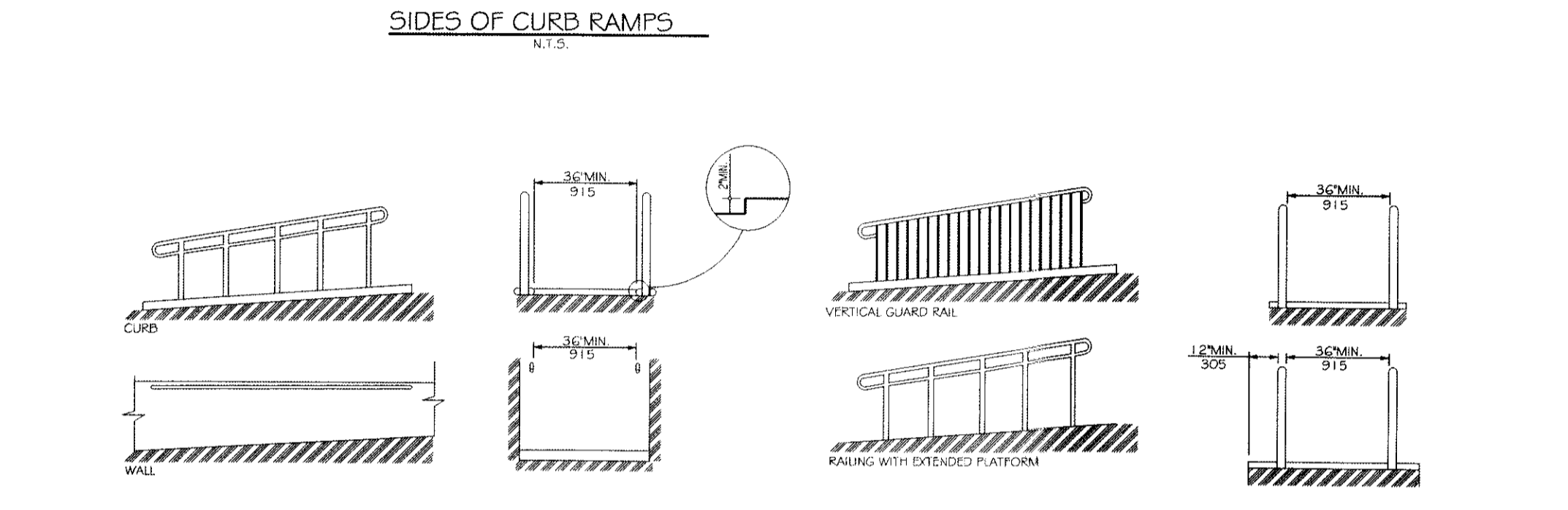


FIG. 17 EXAMPLES OF EDGE PROTECTION AND HANDRAIL EXTENSIONS N.T.S.

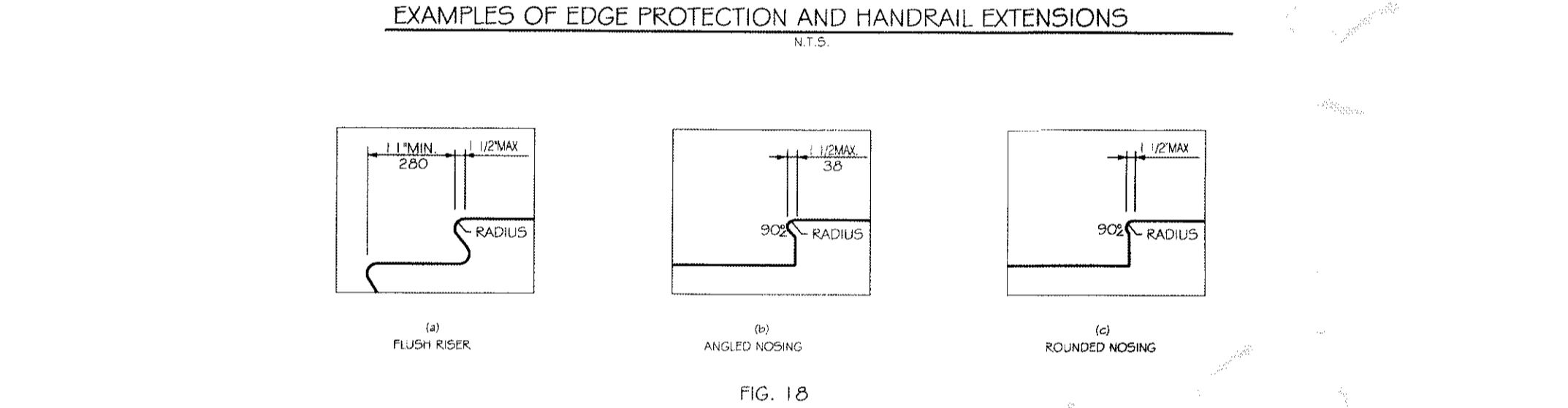


FIG. 18 USEABLE TREAD WIDTH AND EXAMPLES OF ACCEPTABLE NOSINGS N.T.S.

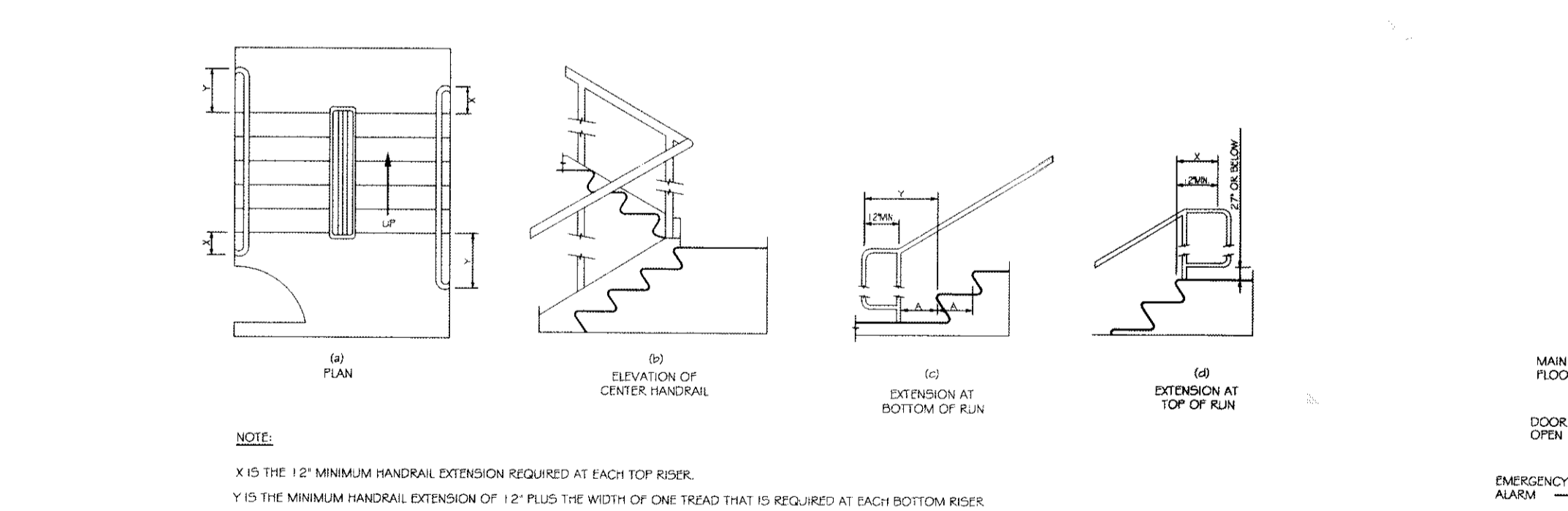


FIG. 19 STAIR HANDRAILS N.T.S.

4.9 STAIRS.

4.9.1 MINIMUM NUMBER. STAIRS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH 4.9.

4.9.2 TREADS & RISERS. ON ANY GIVEN FLIGHT OF STAIRS, ALL STEPS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD WIDTHS. STAIR TREADS SHALL BE NO LESS THAN 11" (280 mm) WIDE, MEASURED FROM RISER TO RISER (SEE FIG. 18(a)). RISERS SHALL NOT BE PERMITTED ON ACCESSIBLE ROUTES.

4.9.3 NOSINGS. THE UNDERSIDES OF NOSINGS SHALL NOT BE ABRUPT. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE NO GREATER THAN 1/2" (12.7 mm). NOSINGS SHALL BE SLOPED OR THE UNDERSIDE OF THE NOSING SHALL HAVE AN ANGLE NOT LESS THAN 60 DEGREES FROM THE HORIZONTAL. NOSINGS SHALL PROJECT NO MORE THAN 1-1/2" (38 mm) (SEE FIG. 18).

4.9.4 HANDRAILS. STAIRWAYS SHALL HAVE HANDRAILS AT BOTH SIDES OF ALL STAIRS. HANDRAILS SHALL COMPLY WITH 4.9.5 AND SHALL HAVE THE FOLLOWING FEATURES:
(1) HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES OF STAIRS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGGLE STAIRS SHALL ALWAYS BE CONTINUOUS (SEE FIG. 19(a) & (b)).
(2) IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" (305 mm) PLUS THE WIDTH OF ONE TREAD BEYOND THE BOTTOM RISER. AT THE TOP, THE EXTENSION SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE. AT THE BOTTOM, THE HANDRAIL SHALL CONTINUE TO SLOPE FOR A DISTANCE OF THE WIDTH OF ONE TREAD FROM THE BOTTOM RISER. THE REMAINDER OF THE EXTENSION SHALL BE HORIZONTAL (SEE FIG. 19(c) & (d)).
(3) THE CLEAR SPACE BETWEEN THE HANDRAIL AND WALLS SHALL BE 1-1/2" (38 mm).
(4) GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NIPPLE POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.
(5) TOP OF HANDRAIL GRIPPING SURFACE SHALL BE MOUNTED BETWEEN 30" & 34" (762 mm & 863 mm) ABOVE STAIR NOSINGS.
(6) ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL OR POST.
(7) HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

4.9.5 TACTILE WARNINGS AT STAIRS. (REMOVED & RESERVED.)

4.9.6 OUTDOOR CONDITIONS. OUTDOOR STAIRS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

4.9.7 TACTILE WARNINGS AT STAIRS. (REMOVED & RESERVED.)

4.9.8 OUTDOOR CONDITIONS. OUTDOOR STAIRS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

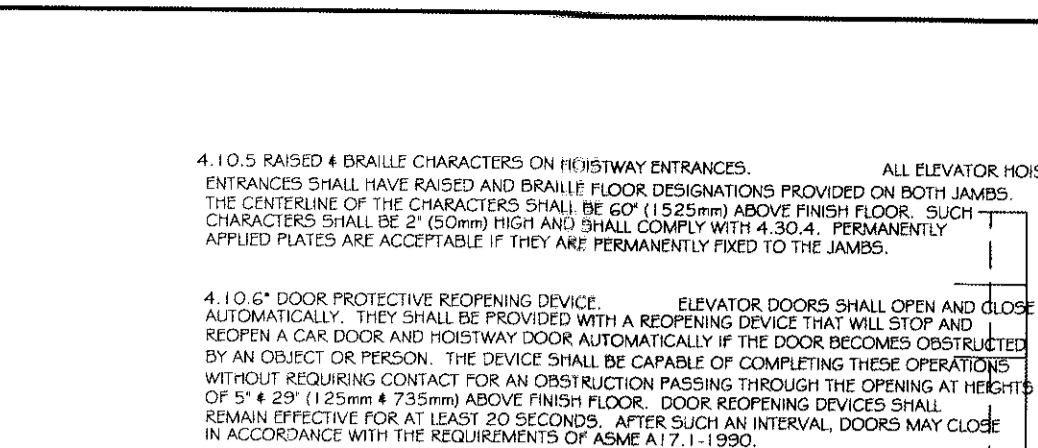


FIG. 10.5 RAISED & BRILLE CHARACTERS ON HORIZONTAL ENTRANCES

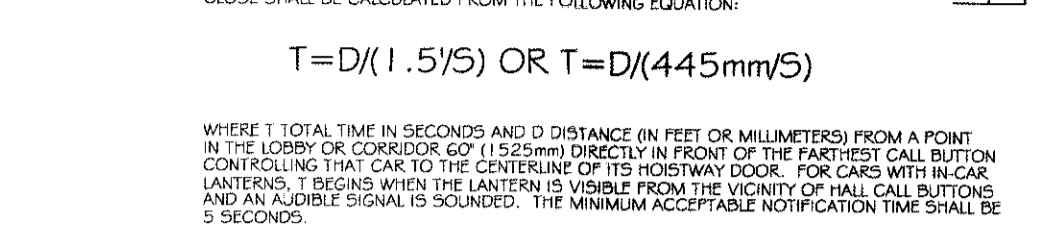


FIG. 10.7 DOOR SIGNAL TIMING FOR HALL CALLS

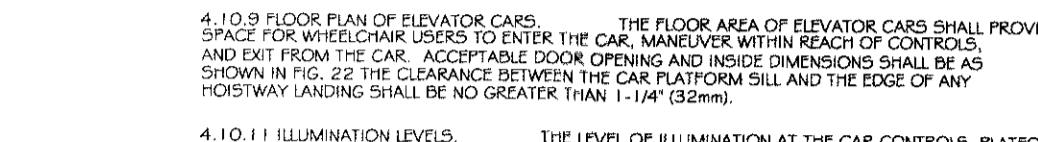


FIG. 10.9 FLOOR PLAN OF ELEVATOR CARS

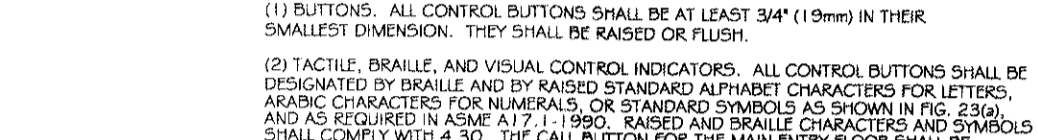


FIG. 10.12 CAR CONTROLS

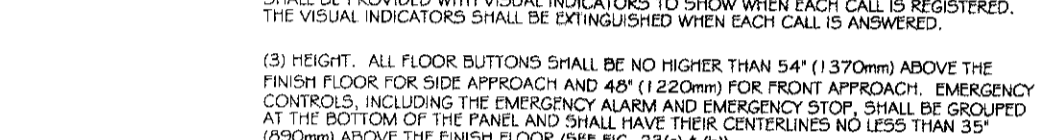


FIG. 10.13 CAR POSITION INDICATORS

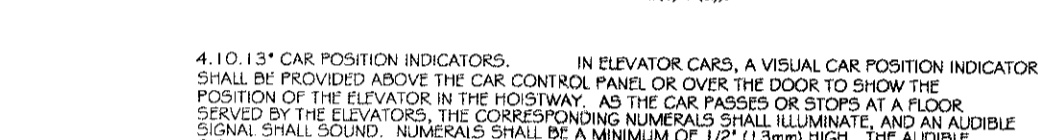


FIG. 10.14 EMERGENCY COMMUNICATIONS

