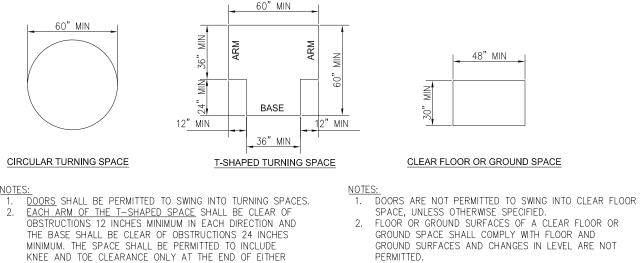
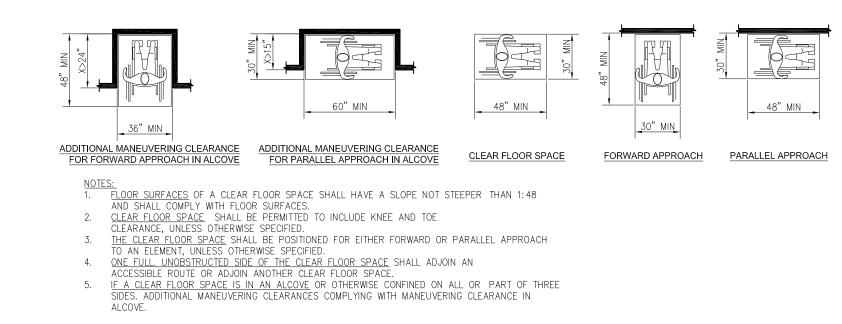


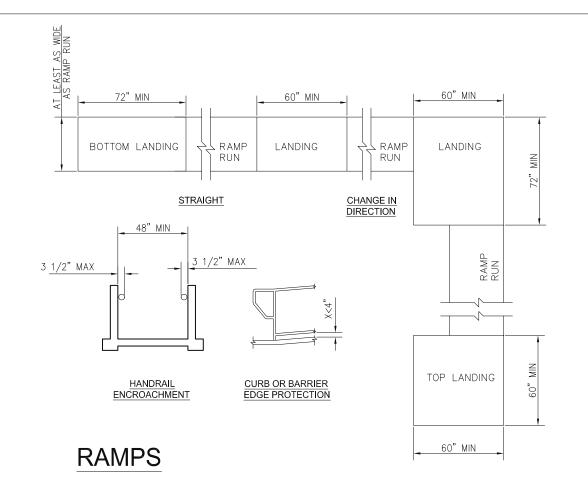
## **HANDRAILS**

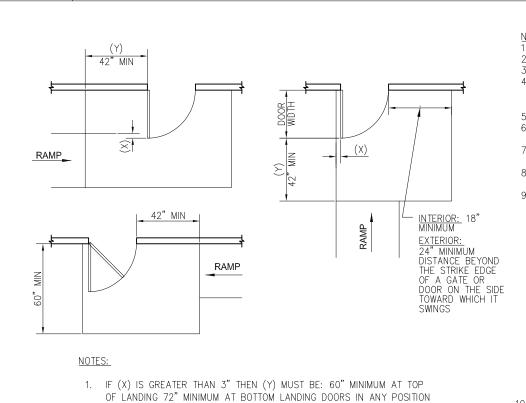


## TURNING SPACE/CLEAR FLOOR OR **GROUND SPACE**



### CLEAR FLOOR OR GROUND SPACE





2. THE MINIMUM DIMENSION OF THE RAMP LANDING TO LESS THAN 42" AND

DOOR SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3"

RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48

RAMP RUNS SHALL COMPLY WITH FLOOR SURFACES. THE CLEAR WIDTH OF A RAMP RUN SHALL BE 48 INCHES MINIMUM. HANDRAILS MAY PROJECT INTO THE REQUIRED CLEAR WIDTH OF THE RAMP AT EACH SIDE 3-1/2" MAXIMUM AT THE HANDRAIL HEIGHT. . <u>THE RISE</u> FOR ANY RAMP RUN SHALL BE 30 INCHES MAXIMUM. . <u>LANDINGS</u> SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL LANDINGS SHALL HAVE A SLOP COMPLY WITH FLOOR SURFACES. RAMPS THAT CHANGE DIRECTION AT RAMP RUNS SHALL PROVIDE A 8. RAMP RUNS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE COMPLYING HANDRAILS. 9. EDGE PROTECTION SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS.

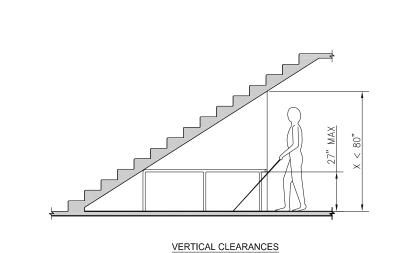
EXCEPTIONS:

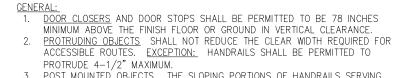
1. EDGE PROTECTION SHALL NOT BE REQUIRED AT CURB 2. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS SERVING AN RAMP RUN OR 3. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE

SIDES OF RAMP LANDINGS HAVING A VERTICAL DROP-OFF

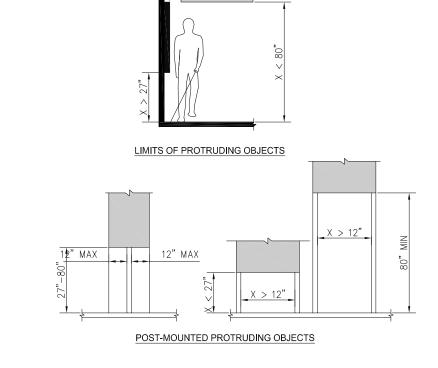
OF 1/2 INCH MINIMUM WITHIN 10 INCHES HORIZONTALLY OF THE MINIMUM LANDING AREA. 10. <u>A CURB, 2 INCHES HIGH MINIMUM, OR BARRIER</u> SHALL BE PROVIDED THAT PRESENTS A PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR

GROUND SURFACE. TO PREVENT WHEEL ENTRAPMENT, THE CURB OF BARRIER SHALL PROVIDE A CONTINUOUS AND UNINTERRUPTED BARRIER ALONG THE LENGTH OF LANDING SUBJECT TO WET CONDITIONS SHALL BE
 DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

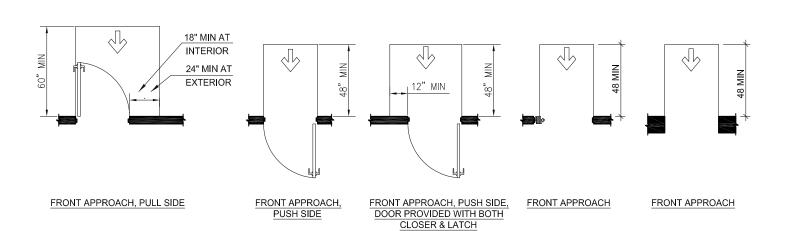


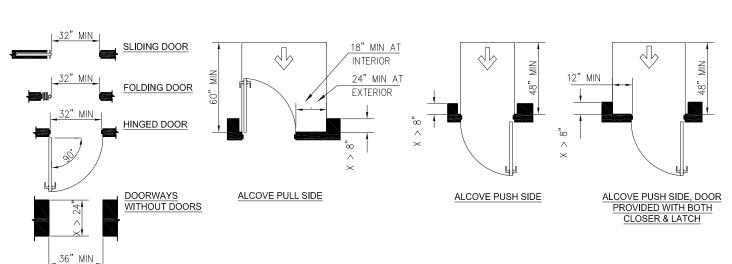


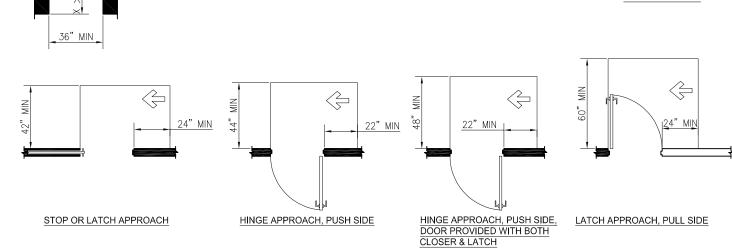
3. POST MOUNTED OBJECTS. THE SLOPING PORTIONS OF HANDRAILS SERVING STAIRS AND RAMPS SHALL NOT BE REQUIRED TO COMPLY.

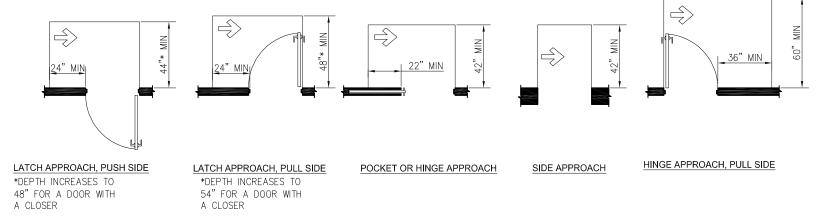


#### PROTRUDING OBJECTS AND **VERTICAL CLEARANCES**









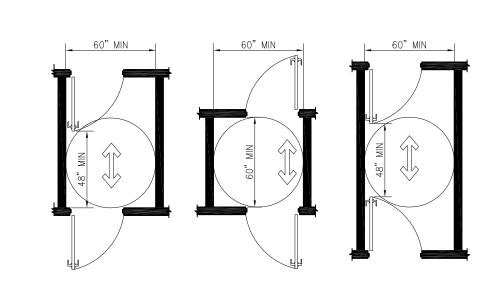
- 1. AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY NCHES ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES. EXCEPTION: IN ALTERATIONS, A PROJECTION OF 5/8" MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
- PROVIDE REQUIRED MANEUVERING SPACE AT DOORS. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE. THRESHOLDS IF PROVIDED SHALL COMPLY WITH CHANGES IN LEVEL.

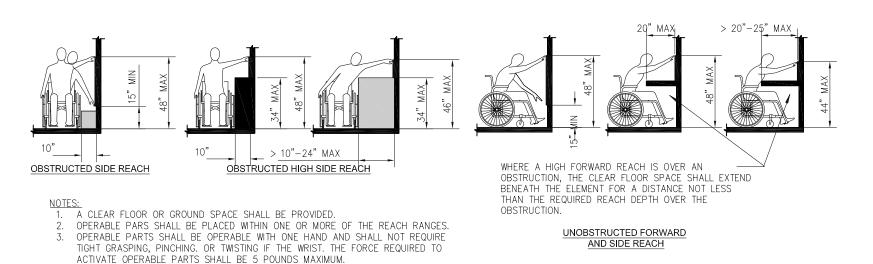
  DOOR HARDWARE: HANDLES, PULLS, LATCHED, LOCKS AND OTHER OPERABLE PARTS ON DOOR AND GATES SHALL BE 34" MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. EXCEPTION: EXISTING LOCKS SHALL BE PERMITTED IN ANY LOCATION AT EXISTING GLAZED DOORS WITHOUT STILE, EXITING OVERHEAD ROLLING DOORS OR GRILLS, AND SIMILAR EXISTING DOORS

OR GRILLES THAT ARE DESIGNED WIT LOCKS THAT ARE ACTIVATED AT THE TOP OR BOTTOM RAIL.

- 6. <u>DOOR CLOSERS AND GATE CLOSERS</u> SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. 7. SPRING HINGES DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS

  8. DOOR AND GATE OPENING FORCE. FIRE DOORS SHALL HAVE A MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN A FIRE DOOR SHALL BE 5 POUNDS FOR INTERIOR DOORS, GATES, SLIDING OR FOLDING DOORS. 9. DOOR AND GATE SURFACES. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISHED FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OF VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE <u>EXCEPTIONS</u>; OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED. SIDING DOORS ARE NOT REQUIRED TO COMPLY. TEMPERED GLASS
- DOORS WITHOUT STILES AND HAVING A BOTTOM RAIL OR SHOE WITH THE TOP LEADING EDGE TAPERED AT 60 DEGREES MINIMUM FROM THE HORIZONTAL SHALL NOT BE REQUIRED TO COMPLY. DOORS AND GATES THAT DO NOT EXTEND TO WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO COMPLY. EXISTING DOORS AND GATED WITHOUT SMOOTH SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO PROVIDE A SMOOTH SURFACE PROVIDED THAT IF ADDED KICK PLATED ARE INSTALLED CAVITIES CREATED BY SUCH KICK PLATED ARE CAPPED. 10. VISION LIGHTS: DOORS , GATES AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR. <u>EXCEPTION:</u> VISION LIGHTS WITH THE LOWEST PART MORE THAN 66 INCHES FROM THE FINISH FLOOR OR GROUND SHALL NOT BE
- 11. <u>AUTOMATIC AND POWER ASSISTED DOORS AND GATES.</u> AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH ANSI/BHMA A156.10. LOW ENERGY AND POWER ASSISTED DOORS SHALL COMPLY WITH ANSI/BHMA A156.19. AUTOMATIC DOORS SHALL PROVIDE A CLEAR OPENING OF 32 INCHES MINIMUM IN POWER-ON AND POWER-OFF MODE. THE MINIMUM CLEAR WIDTH OF AUTOMATIC DOOR SYSTEMS IN A DOORWAY SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING OF 32 INCHES WITH ONE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. MANEUVERING CLEARANCES AND THRESHOLDS AT POWER ASSISTED AND AUTOMATIC DOORS SHALL COMPLY. <u>EXCEPTION:</u> WHERE AUTOMATIC DOORS AND GATES REMAIN OPEN IN THE POWER-OFF CONDITION, MANEUVERING CLEARANCES ARE NOT REQUIRED. MANUAL CONTROLS SHALL COMPLY WITH REACH RANGES AND BE LOCATED BEYOND THE ARC OF THE DOOR SWING. WHERE DOORS AND GATES WITHOUT STANDBY POWER ARE A PART OF A MEANS OF EGRESS, THE CLEAR BREAK OUT OPENING AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32 INCHES MINIMUM WHEN OPERATED IN





#### **REACH RANGES**

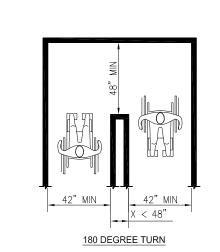
AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE REQUIRED ON THE SAME SITE. EXCEPTION: AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING PEDESTRIAN ACCESS. ENTRANCES AND EXTERIOR GROUND FLOOR EXITS SHALL BE ACCESSIBLE. EXTERIOR GROUND FLOOR EXITS SERVING SMOKE—PROOF ENCLOSURES, STAIRWELLS, AND EXIT DOORS SERVING STAIRS ONLY SHALL NOT BE REQUIRED TO BE ON AND ACCESSIBLE ROUTE. EXITS IN EXCESS OF THOSE REQUIRED BY CHAPTER 10, AND WHICH ARE MORE THAN 24 INCHES ABOVE GRADE SHALL NOT BE REQUIRE TO BE ON AN ACCESSIBLE ROUTE. SUCH DOORS SHALL HAVE WARNING SIGNS STATING THAT THEY ARE NOT ACCESSIBLE. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING:
WALKING SURFACES WITH A SLOPE NOT STEEPER THAN 1:20, DOORS AND DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS. AND PLATFORM LIFTS.

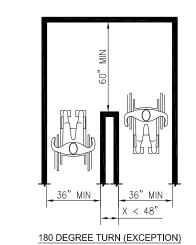
REVOLVING DOORS, REVOLVING GATES AND TURNSTILES SHALL NOT BE APART OF AN ACCESSIBLE ROUTE.

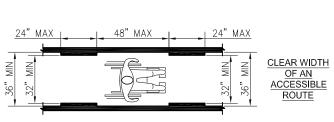
ACCESSIBLE ROUTES SHALL COMPLY WITH FLOOR AND GROUND SURFACES AND CHANGES IN LEVEL.

THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48 AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM. PASSING SPACES SHALL BE EITHER A 60 INCH MINIMUM BY 60 INCH MINIMUM SPACE . OR AN INTERSECTION OF TWO WALKING SURFACES THAT PROVIDE A T-SHAPED TURNING SPACE COMPLYING TURNING SPACE PROVIDED THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 48 INCHES MINIMUM BEYOND THE INTERSECTION.

EMPLOYEE WORK AREAS SPACES AND ELEMENTS WITHIN EMPLOYEE WORK AREA SHALL ONLY BE REQUIRED COMPLY WITH ACCESSIBLE ROUTES, ACCESSIBLE MEANS OF EGRESS AND AUDIBLE ALARM COVERAGE. 8. <u>MULTILEVEL BUILDINGS</u> AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH ACCESSIBLE LEVEL, INCLUDING MEZZANINES, IN MULTILEVEL BUILDINGS AND FACILITIES.







- 1. THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 2. THE CLEAR WIDTH OF SIDEWALKS SHALL BE 48 INCHES
- MINIMUM. 3. THE CLEAR WIDTH OF AISLE SHALL BE 36 INCHES IF SERVING ELEMENTS ON ONLY ONE SIDE, AND 44 INCHES MINIMUM IF SERVING ELEMENTS ON BOTH SIDES.

# ACCESSIBLE ROUTES



Circulation Accessibility			
REV. NO.	001	DWG. NO.	
REV. DATE:	08-27-20		AGD-03
DRAWN BY :	NBS	SCALE:	NTS

DOORS, DOORWAYS, AND GATES