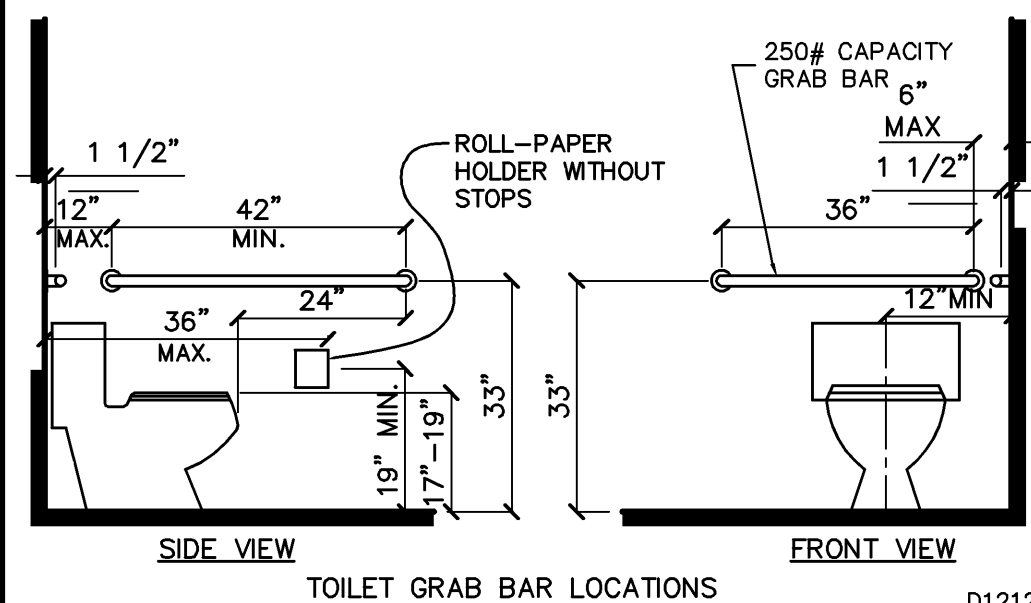


- 1.) LOCATE GRAB BARS ON EACH SIDE OR ON ONE SIDE AND BEHIND TOILET, 33 INCHES ABOVE AND PARALLEL TO THE FLOOR.
- 2.) SIDE BARS TO BE 42 INCHES LONG WITH FRONT END 24 INCHES IN FRONT OF TOILET
- 3.) BACK BARS TO BE 36 INCHES LONG.
- 4.) DIAMETER OR WIDTH OF GRIPPING SURFACE SHALL BE 1-1/4 INCHES TO 1-1/2 INCH, OR SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
- 5.) GRAB BARS SHALL HAVE 1-1/2 INCHES BETWEEN ADJACENT WALL AND GRAB BAR.
- 6.) GRAB BARS SHALL NOT ROTATE.
- 7.) GRAB BARS AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
- 8.) EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH.
- 9.) GRAB BARS AND MOUNTING SHALL WITHSTAND 250 LBS./SIDE, 500 LBS. TOTAL WT./MIDDLE



TOILET GRAB BAR LOCATIONS D1212

### 13 TOILET GRAB BAR REQUIREMENTS

WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2 INCH AND SHALL BE A MINIMUM 48 INCHES IN WIDTH. SURFACES SHALL BE AS SLIP-RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH. SURFACE WITH A SLOPE OF LESS THAN 6 PERCENT GRADIENT SHALL BE AT LEAST AS SLIP-RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH. SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4 INCH PER FOOT EXCEPT WHEN THE ENFORCING AGENCY FINDS THAT DUE TO LOCAL CONDITIONS IT CREATES AN UNREASONABLE HARDSHIP, THE CROSS SLOPE SHALL BE INCREASED TO A MAXIMUM 1/2 INCH PER FOOT FOR DISTANCES NOT TO EXCEED 20 FEET.

**EXCEPTION:** WHEN BECAUSE OF RIGHT-OF-WAY RESTRICTIONS, NATURAL BARRIERS, OR OTHER EXISTING CONDITIONS, THE ENFORCING AGENCY DETERMINES THAT COMPLIANCE WITH THE 48 INCH, CLEAR SIDEWALK WIDTH WOULD CREATE AN UNREASONABLE HARDSHIP, THE CLEAR WIDTH MAY BE REDUCED TO 36 INCHES. WALKS, SIDEWALKS AND PEDESTRIAN WAYS SHALL BE FREE OF GRATINGS WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS SHALL BE LIMITED TO 1/2 INCH IN THE DIRECTION OF TRAFFIC.

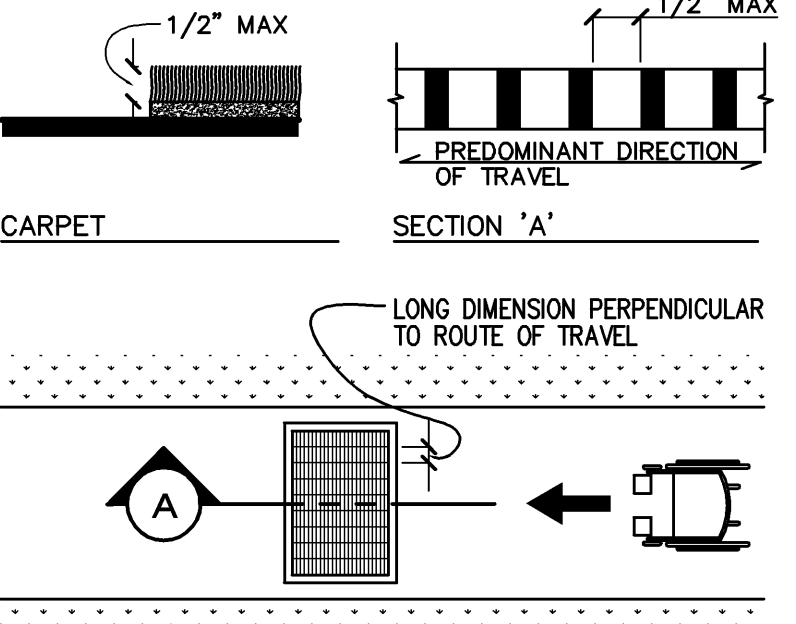
WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 2 HORIZONTAL (5 PERCENT GRADIENT) IT SHALL COMPLY WITH THE REQUIREMENTS OF PEDESTRIAN RAMPS. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAY BE VERTICAL. WHEN CHANGES IN LEVELS GREATER THAN 1/2 INCH ARE NECESSARY THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS. (SEE DETAIL 8/HC-1)

LEVEL AREAS: WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60 INCHES BY 60 INCHES AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN THE REQUIREMENTS FOR PUSH SIDE APPROACH (SEE DETAIL 16/HC-2)

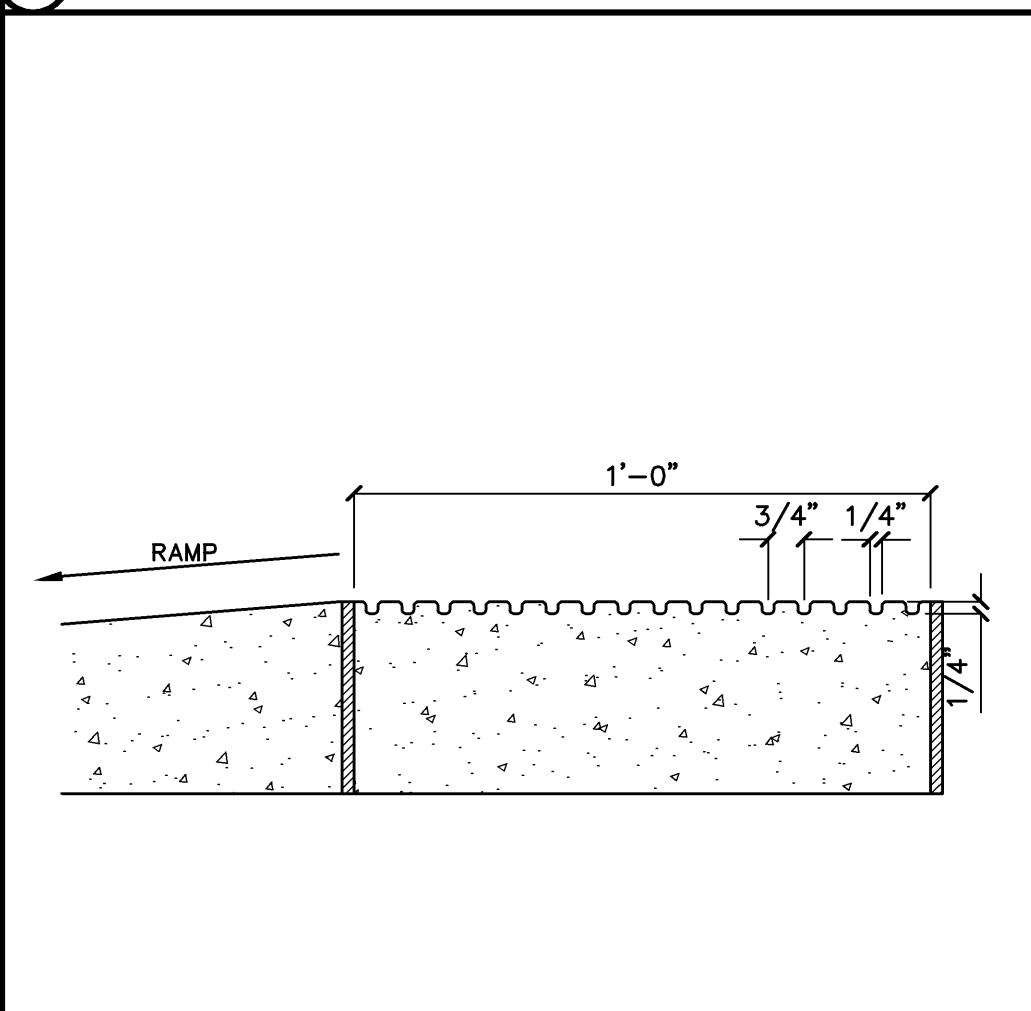
WALKS WITH CONTINUOUS GRADIENTS: ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAY BE VERTICAL. WHEN CHANGES IN LEVELS GREATER THAN 1/2 INCH ARE NECESSARY THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS. (SEE DETAIL 8/HC-1)

TEXTURE: CARPET OR CARPET TILE IS USED ON A GROUND OR FLOOR SURFACE, THEN IT SHALL BE SECURELY ATTACHED; HAVE A FIRM CUSHION, PAD, OR BACKING, OR NO CUSHION OR PAD; AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE. THE THICKNESS OF CARPET SHALL BE 1/2 INCH; EXPOSED EDGES OF CARPET SHALL BE FASTENED TO THE FLOOR SURFACE AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH THE REQUIREMENTS REQUIRED FOR ABRUPT CHANGES IN LEVEL AS PREVIOUSLY DESCRIBED.

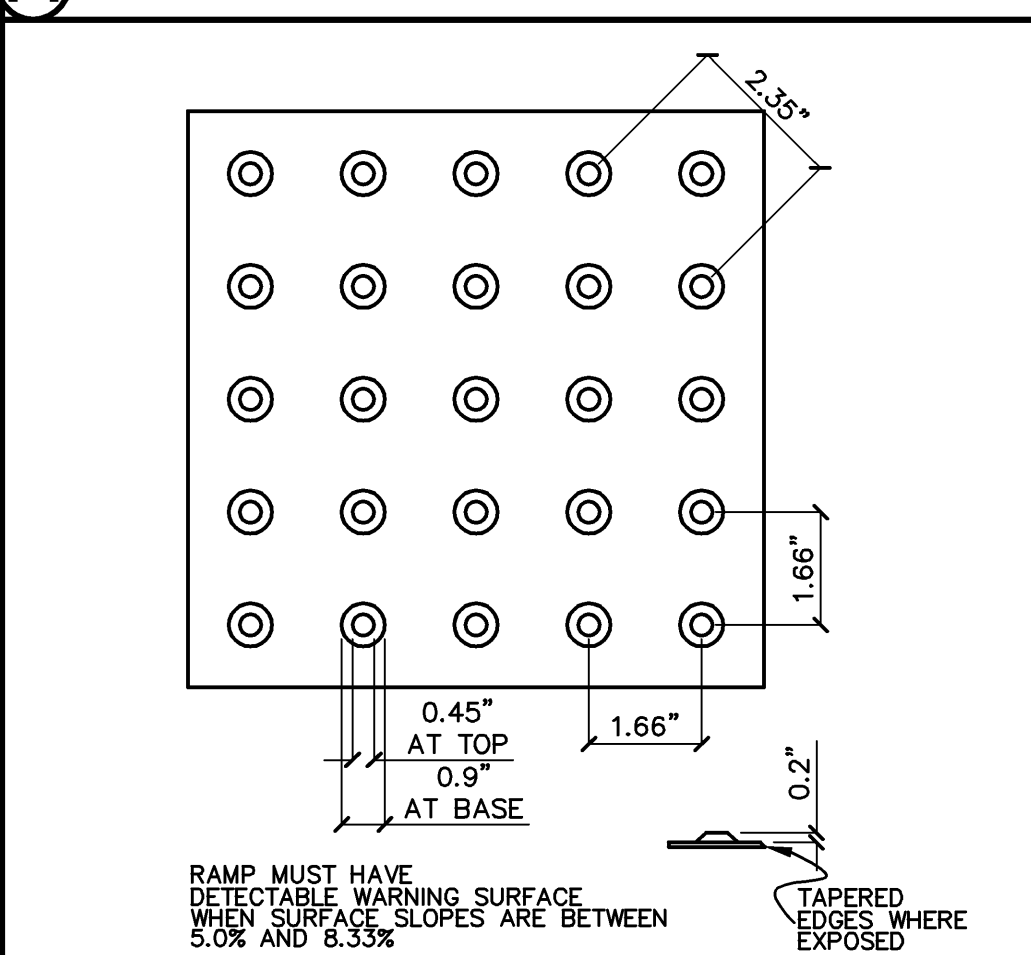
**WARNING CURBS:** ABRUPT CHANGES IN LEVEL, EXCEPT BEHIND A WALK OR SIDEWALK AND AN ADJACENT STREET OR DRIVEWAY, EXCEEDING 4 INCHES IN A VERTICAL DIMENSION, SUCH AS AT PLANTERS OR FOUNTAINS LOCATED IN OR ADJACENT TO WALKS, SIDEWALKS, OR OTHER PEDESTRIAN WAYS, SHALL BE IDENTIFIED BY CURBS PROJECTING AT LEAST 6 INCHES IN HEIGHT ABOVE THE WALK OR SIDEWALK SURFACE TO WARN THE BLIND OF A POTENTIAL DROP OFF. WHEN A GUARDRAIL OR HANDRAIL IS PROVIDED, NO CURB IS REQUIRED WHEN A GUIDE RAIL IS PROVIDED CENTERED 3 INCHES PLUS OR MINUS ONE INCH ABOVE THE SURFACE OF THE WALK OR SIDEWALK, THE WALK IS 5 PERCENT OF LESS GRADIENT OR NO ADJACENT HAZARDS EXIST. D1218



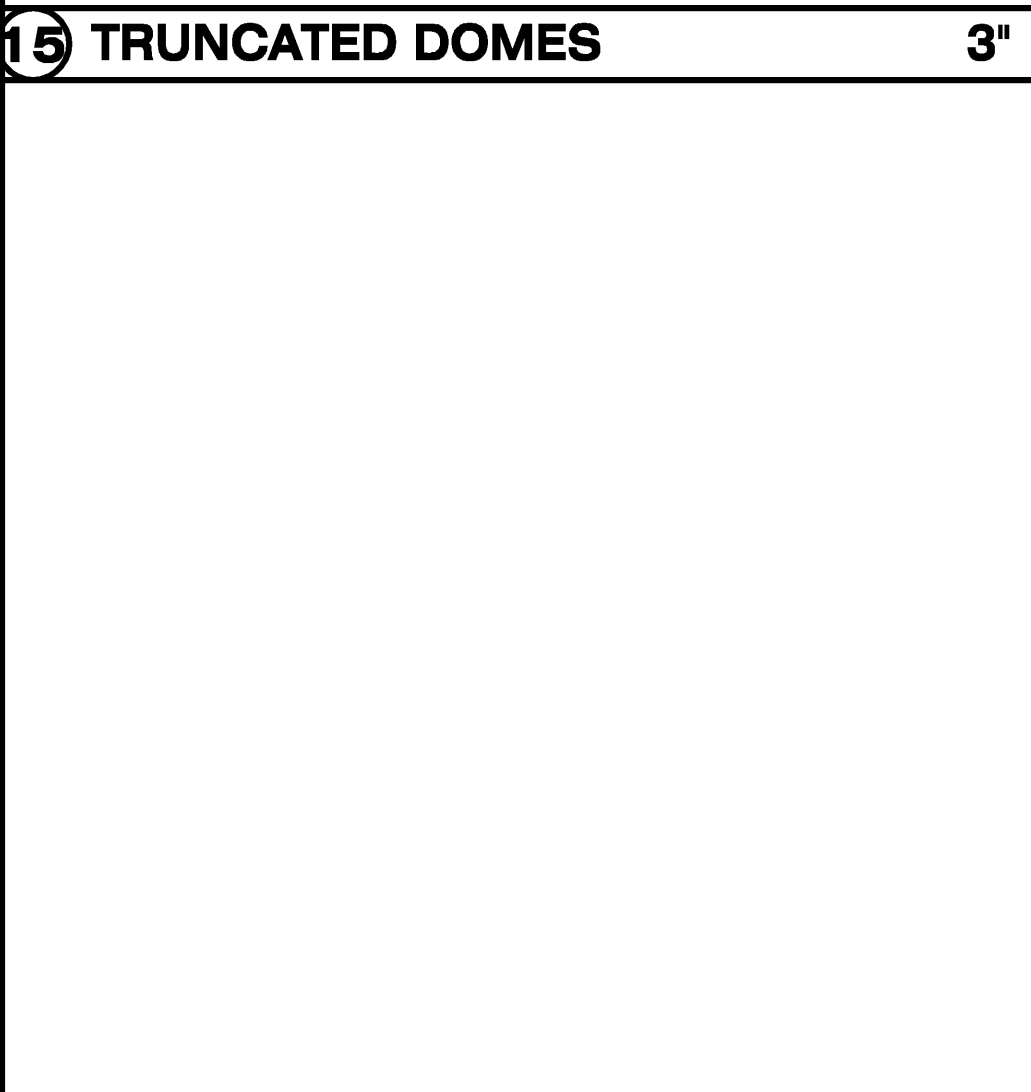
### 10 GROUND AND FLOOR SURFACE



### 14 GROOVED BORDER



### 15 TRUNCATED DOMES



### 16 HAZARDS / PROTRUDING OBJECTS / HEAD ROOM

ACCESSIBLE TOILET FACILITIES SHALL BE ON AN ACCESSIBLE ROUTE. THERE SHALL BE SUFFICIENT SPACE IN THE TOILET ROOM FOR A WHEELCHAIR MEASURING 30 INCHES WIDE BY 48 INCHES LONG TO ENTER THE ROOM AND PERMIT THE DOOR TO CLOSE. ALL DOORS TO ACCESSIBLE TOILET FACILITIES SHALL COMPLY WITH THE A.D.A.G. AND TITLE-24 REQUIREMENTS. (SEE DETAIL 10/HC-2)

NO DOOR SHALL ENDOUR INTO THE CLEAR FLOOR SPACE REQUIRED FOR ANY FIXTURE. THE LAVATORY SHALL BE CENTER 18 INCHES FROM THE ADJACENT WALL. CLEAR FLOOR SPACE REQUIRED FOR LAVATORIES AND URINALS: (SEE DETAILS 6/H-1 & 7/MC-1)

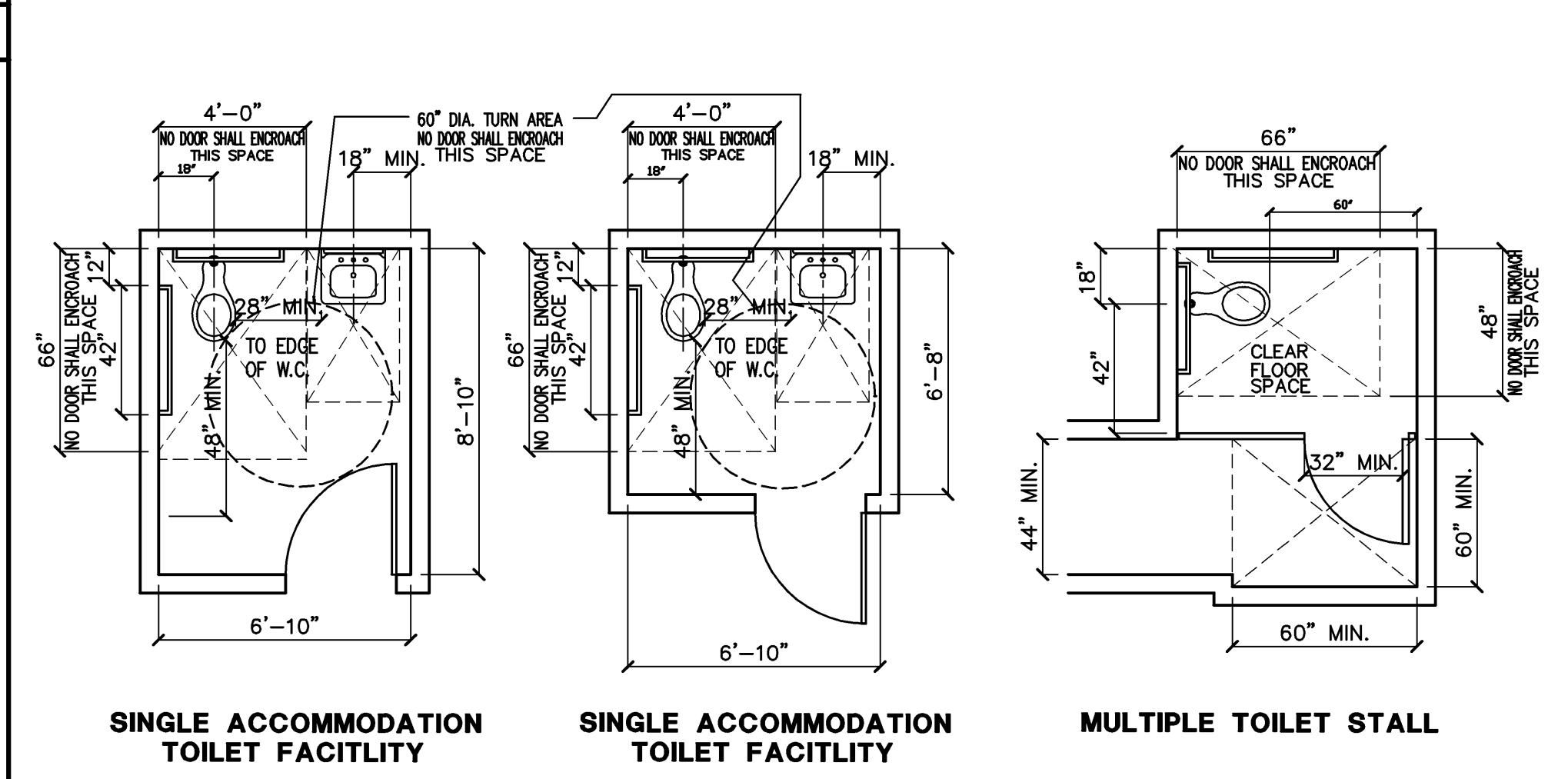
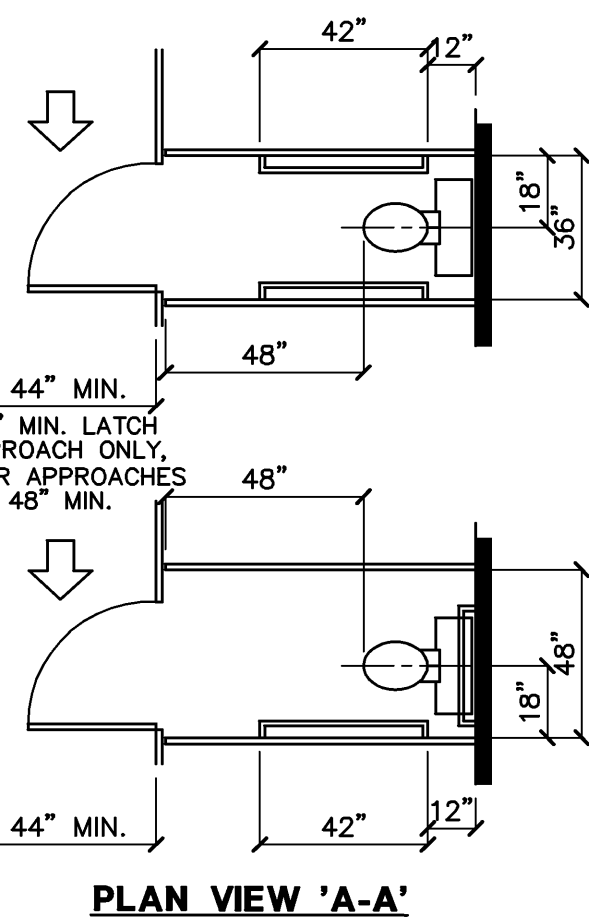
WATER CLOSETS: MULTIPLE ACCOMMODATION TOILET FACILITIES, AT LEAST ONE SHALL BE ACCESSIBLE; WHERE 6 OR MORE ARE PROVIDED, IN ADDITION TO THE ACCESSIBLE STALL, AT LEAST ONE SHALL BE 36 INCHES WIDE WITH AN OUTWARD SWINGING SELF-CLOSING DOOR AND PARALLEL GRAB BARS. (SEE DETAILS 13/HC-1 & 'A-A')

THE WATER CLOSET SHALL BE CENTER 18 INCHES FROM THE ADJACENT WALL. THE WATER CLOSET SHALL BE LOCATED IN A SPACE WHICH PROVIDES A MINIMUM 28 INCHES WIDE CLEAR FROM A FIXTURE OR A MINIMUM 42 INCHES CENTERED FROM THE WATER CLOSET TO THE ADJACENT WALL. THERE SHALL BE A MINIMUM 48 INCHES CLEAR FROM THE FRONT EDGE OF THE WATER CLOSET. HEIGHT: TOILET HEIGHT SHALL BE 17 INCHES TO 19 INCHES MEASURED TO THE TOP OF THE TOILET SEAT ABOVE FINISH FLOOR.

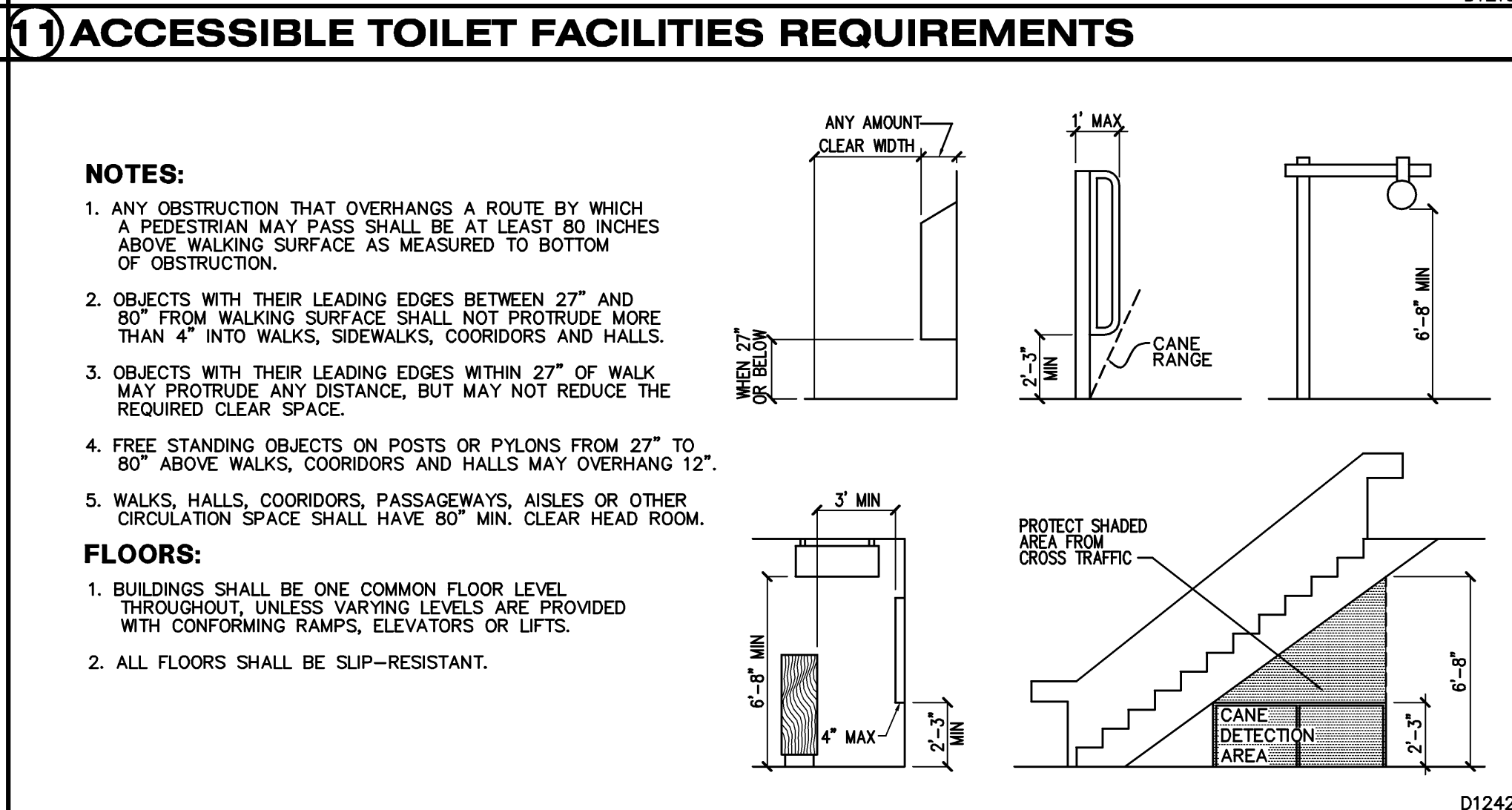
TOILET SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. FLUSH CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 44 INCHES ABOVE FINISH FLOOR. GRAB BARS: (SEE DETAIL 13/HC-1)

SIZE AND ARRANGEMENT: SEE DETAILS TOE CLEARANCES: IN ACCESSIBLE STALLS, THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF AT LEAST 9 INCHES ABOVE FINISH FLOOR. IF THE DEPTH OF THE STALL IS GREATER THAN 60 INCHES, THEN NO TOE CLEARANCE IS REQUIRED. IDENTIFICATION: (SEE DETAIL 9-HC-1)

WATER CLOSET BOWLS USED FOR PUBLIC USE SHALL BE ELONGATED IN DESIGN AND EQUIPPED WITH AN OPEN FRONT.



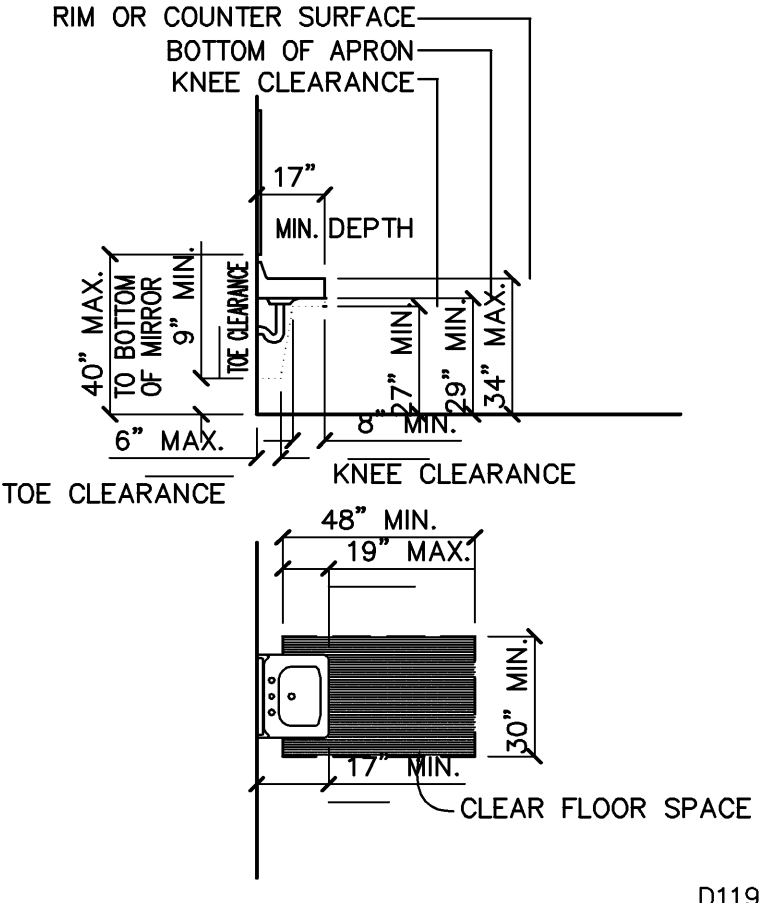
### 11 ACCESSIBLE TOILET FACILITIES REQUIREMENTS



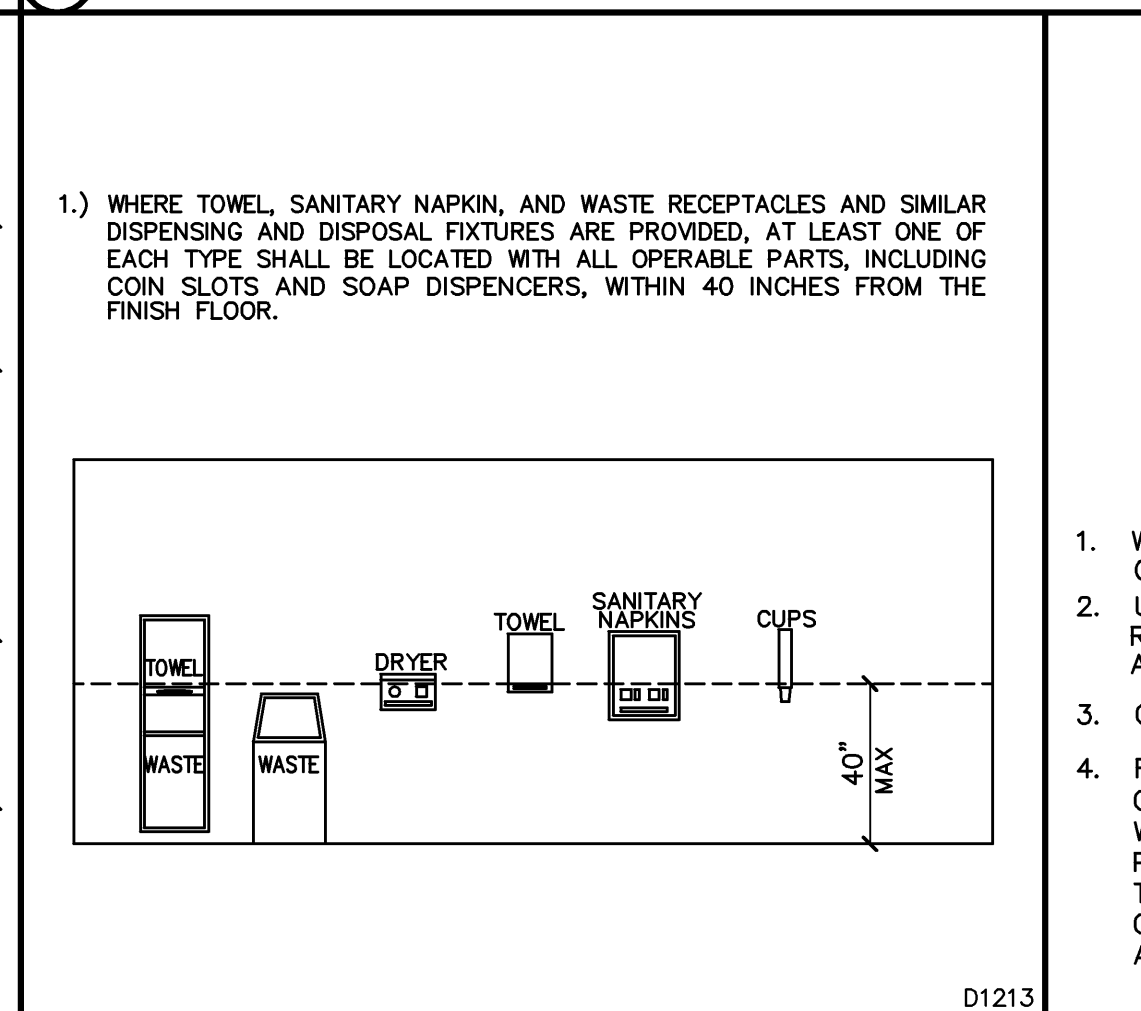
### 12 HAZARDS / PROTRUDING OBJECTS / HEAD ROOM

THESE REQUIREMENTS SHALL APPLY TO LAVATORY FIXTURES, VANITIES, AND BUILT-IN LAVATORIES.

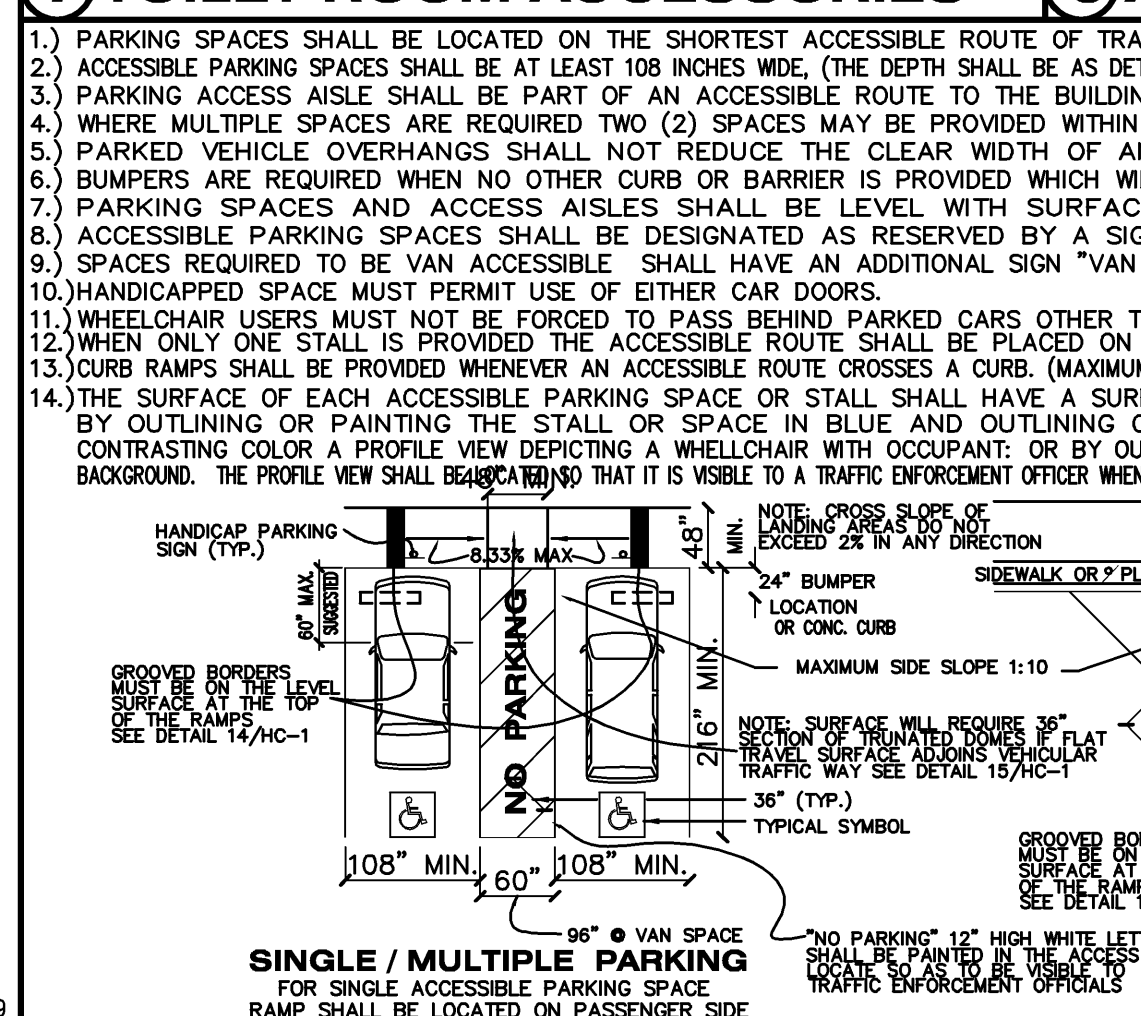
- 1.) LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34 INCHES ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29 INCHES ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. KNEE AND TOE CLEARANCE SHALL BE PROVIDED. KNEE CLEARANCE SHALL BE 30 INCHES WIDE, 8 INCHES DEEP FROM THE FRONT OF LAVATORY AT 27 INCHES ABOVE FINISH FLOOR. TOE CLEARANCE SHALL BE 30 INCHES WIDE, 8 INCHES DEEP FROM FRONT OF LAVATORY WITH A MAXIMUM 6 INCHES DEEP AT A MINIMUM 9 INCHES ABOVE FINISH FLOOR. SEE FIGURE FOR CLARIFICATION.
- 2.) CLEAR FLOOR SPACE: A CLEAR FLOOR SPACE 30 INCHES BY 48 INCHES SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND A MAXIMUM 19 INCHES UNDERNEATH THE LAVATORY.
- 3.) EXPOSED PIPES AND SURFACES: HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
- 4.) FAUCETS: CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. LEVER-OPERATED, PUSH-TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. IF SELF-CLOSING VALVES ARE USED THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
- 5.) MIRRORS: MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTED SURFACE NO HIGHER THAN 40 INCHES ABOVE THE FINISH FLOOR.



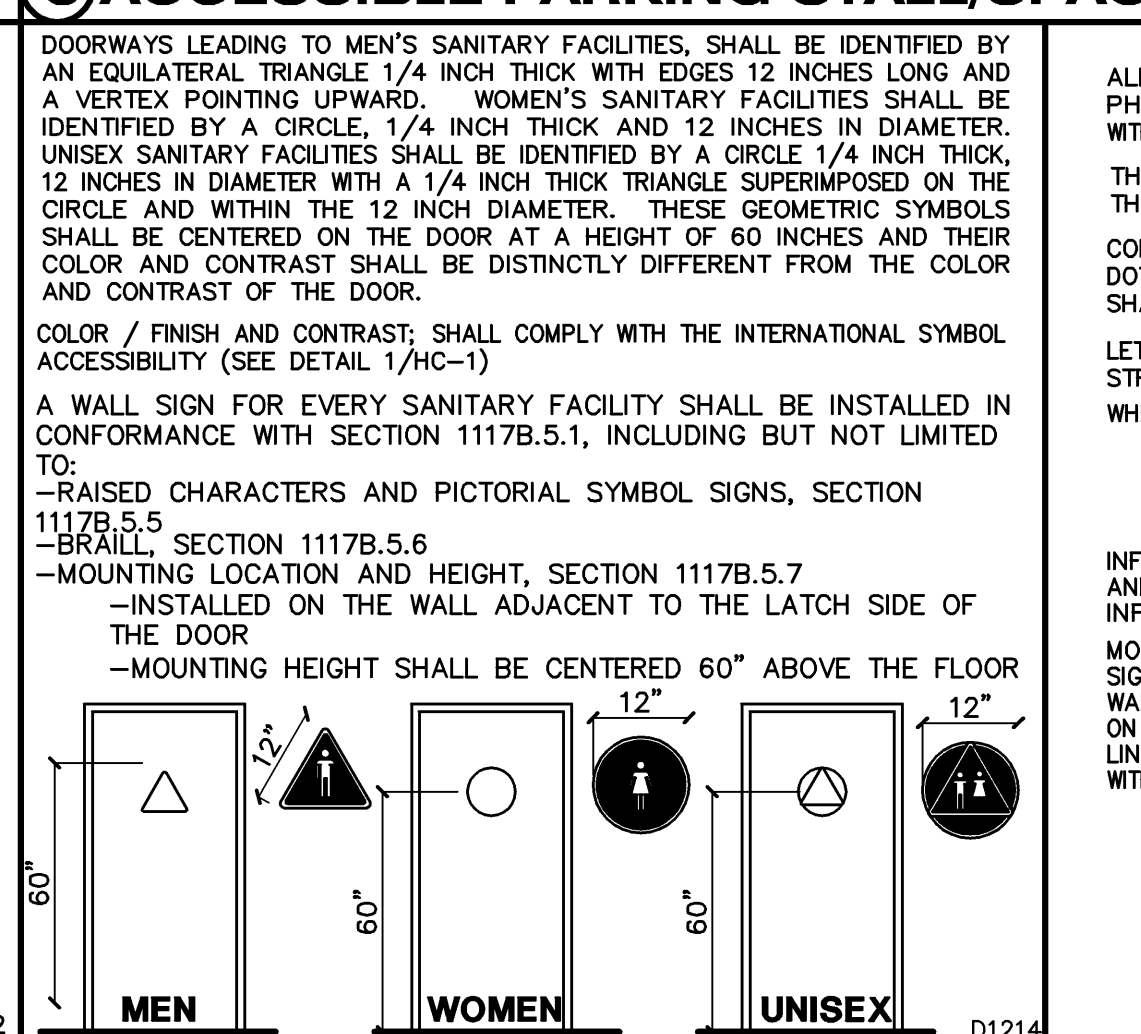
### 5 LAVATORIES AND MIRRORS



### 7 TOILET ROOM ACCESSORIES



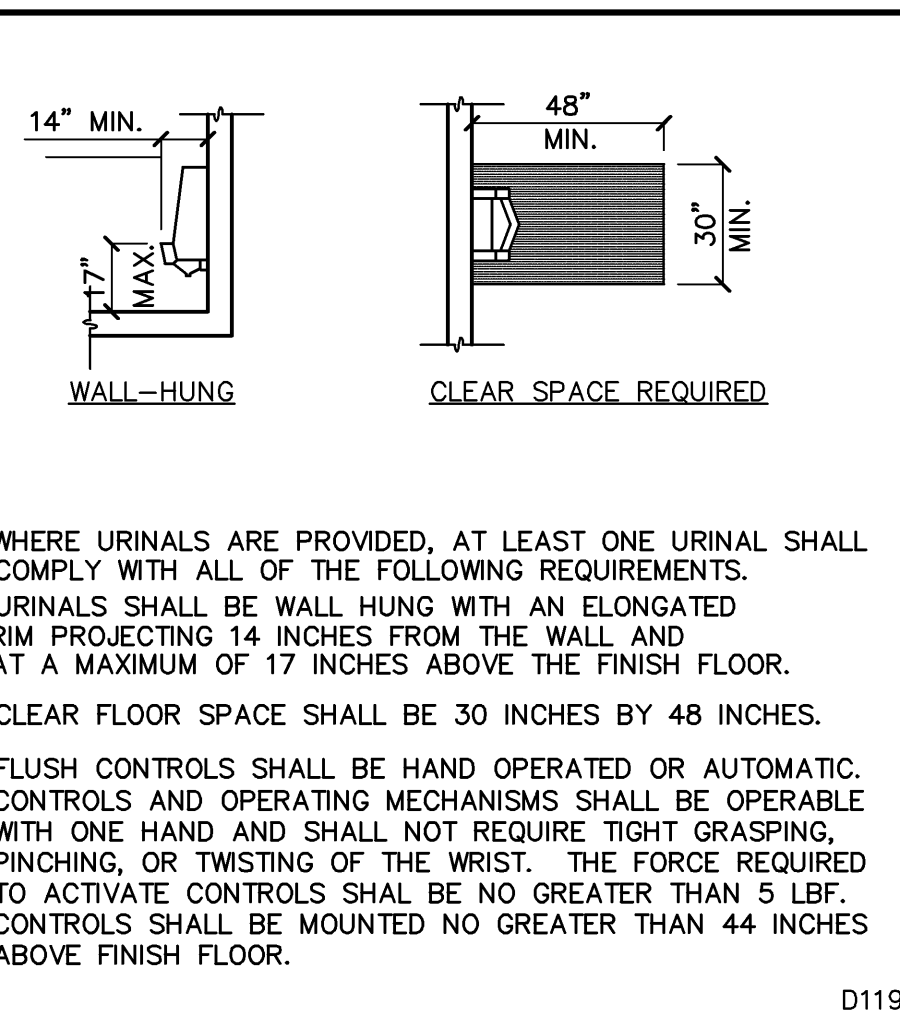
### 8 ACCESSIBLE PARKING STALL/SPACE REQUIREMENTS



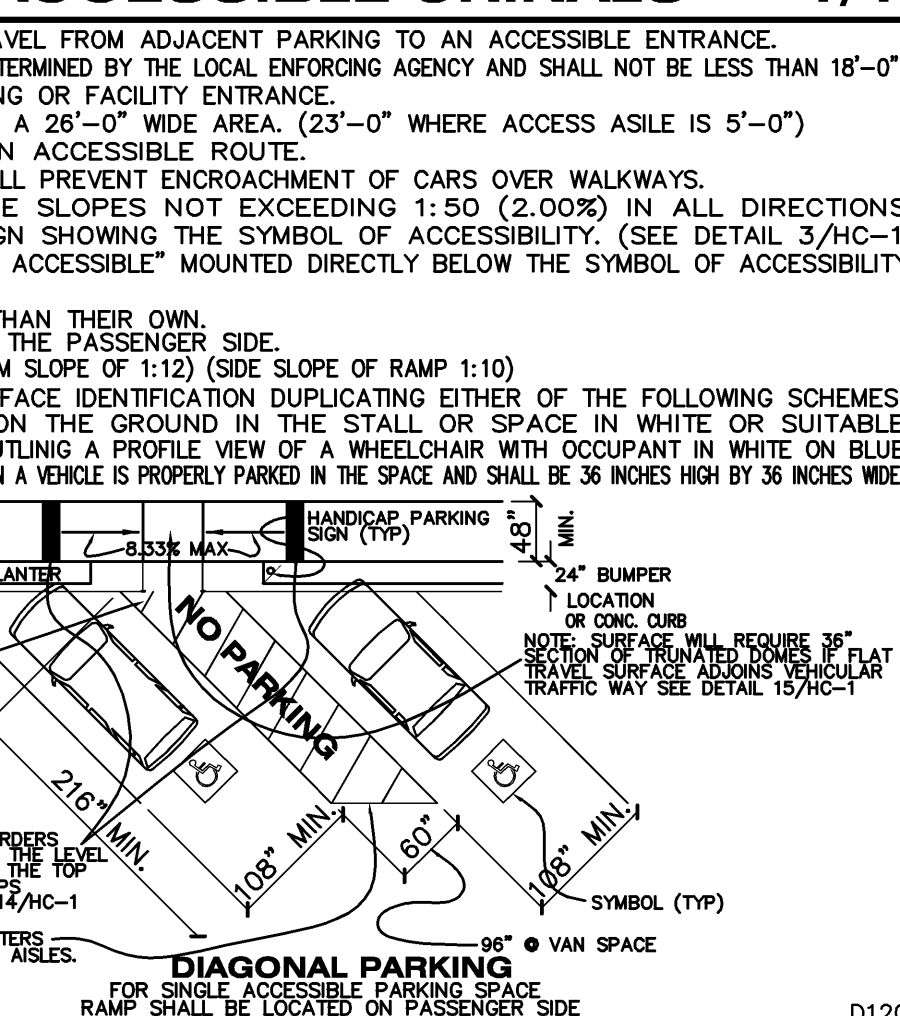
### 9 ACCESSIBLE TOILET FACILITY SIGNAGE

THESE REQUIREMENTS SHALL APPLY TO LAVATORY FIXTURES, VANITIES, AND BUILT-IN LAVATORIES.

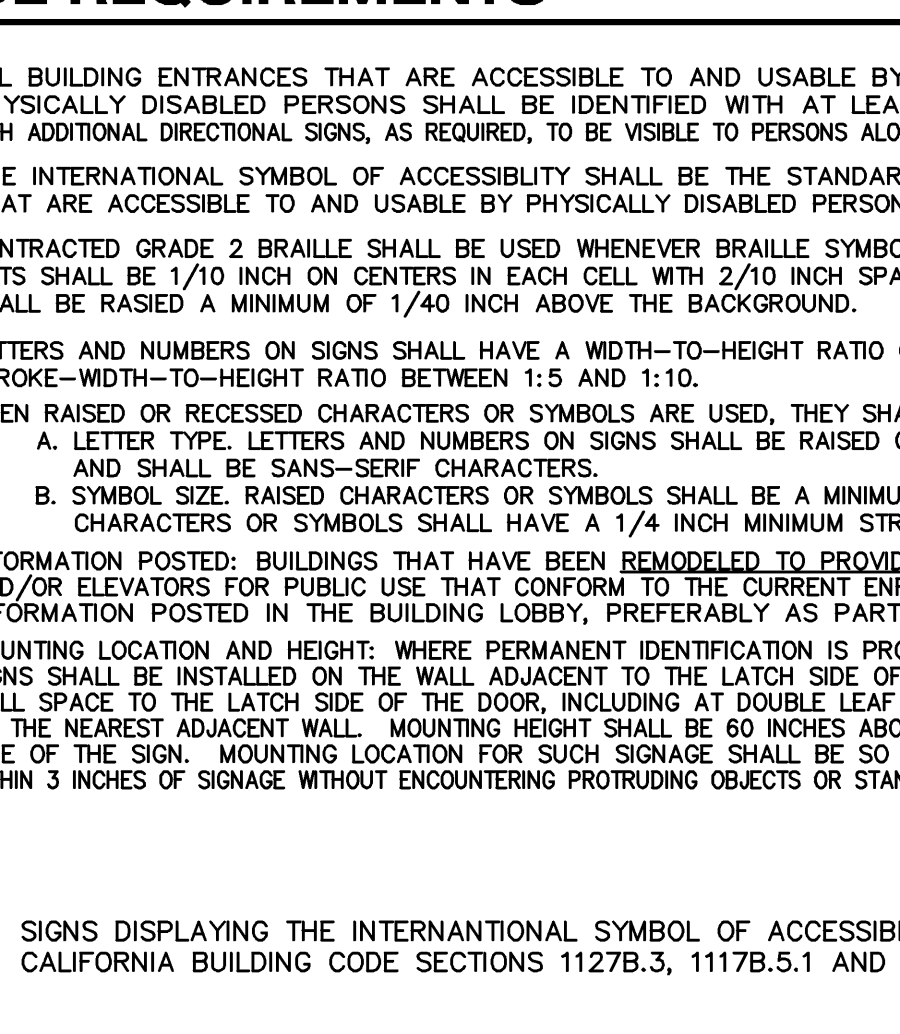
- 1.) WHERE TOWEL, SANITARY NAPKIN, AND WASTE RECEPTACLES AND SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS AND SOAP DISPENSERS, WITHIN 40 INCHES FROM THE FINISH FLOOR.
1. WHERE URINALS ARE PROVIDED, AT LEAST ONE URINAL SHALL COMPLY WITH ALL OF THE FOLLOWING REQUIREMENTS.
2. URINALS SHALL BE WALL-HUNG WITH AN ELONGATED RIM PROJECTING 14 INCHES FROM THE WALL AND AT A MAXIMUM OF 17 INCHES ABOVE THE FINISH FLOOR.
3. CLEAR FLOOR SPACE SHALL BE 30 INCHES BY 48 INCHES.
4. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. CONTROLS SHALL BE MOUNTED NO GREATER THAN 44 INCHES ABOVE FINISH FLOOR.



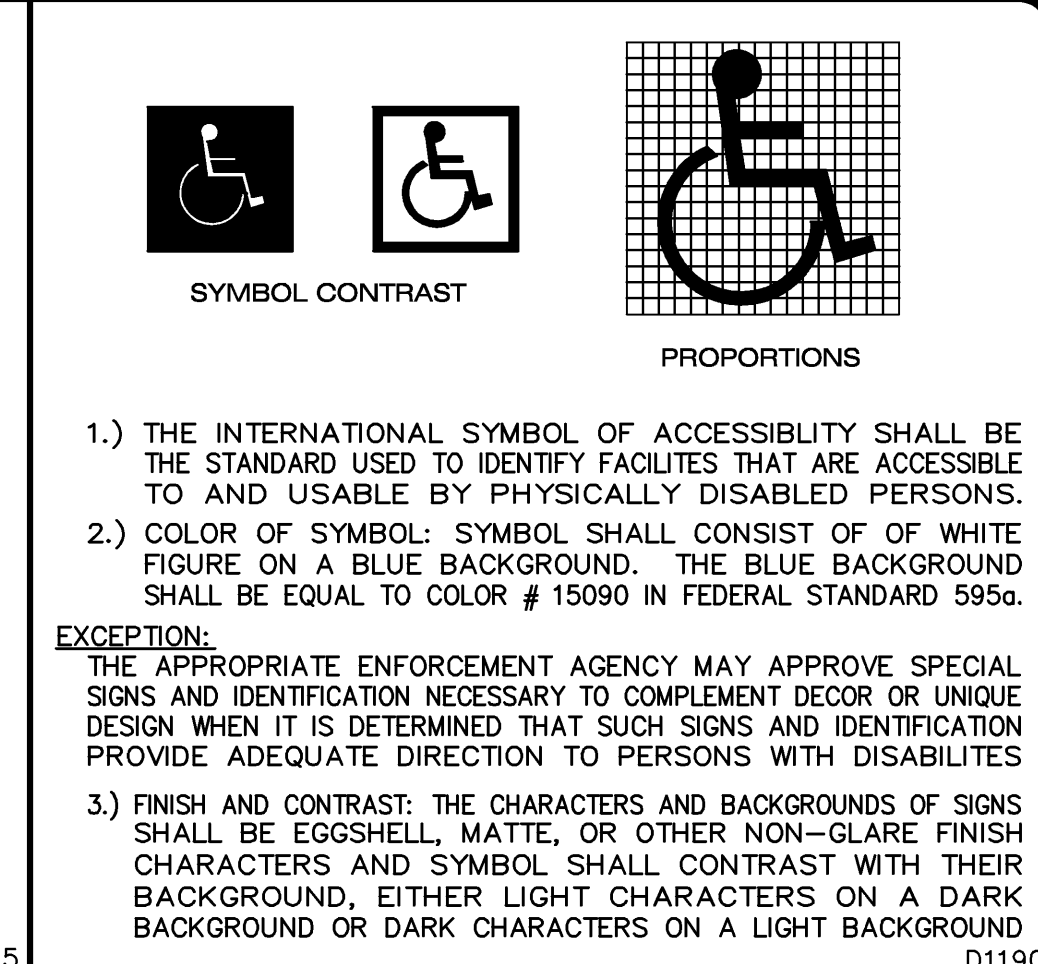
### 6 ACCESSIBLE URINALS



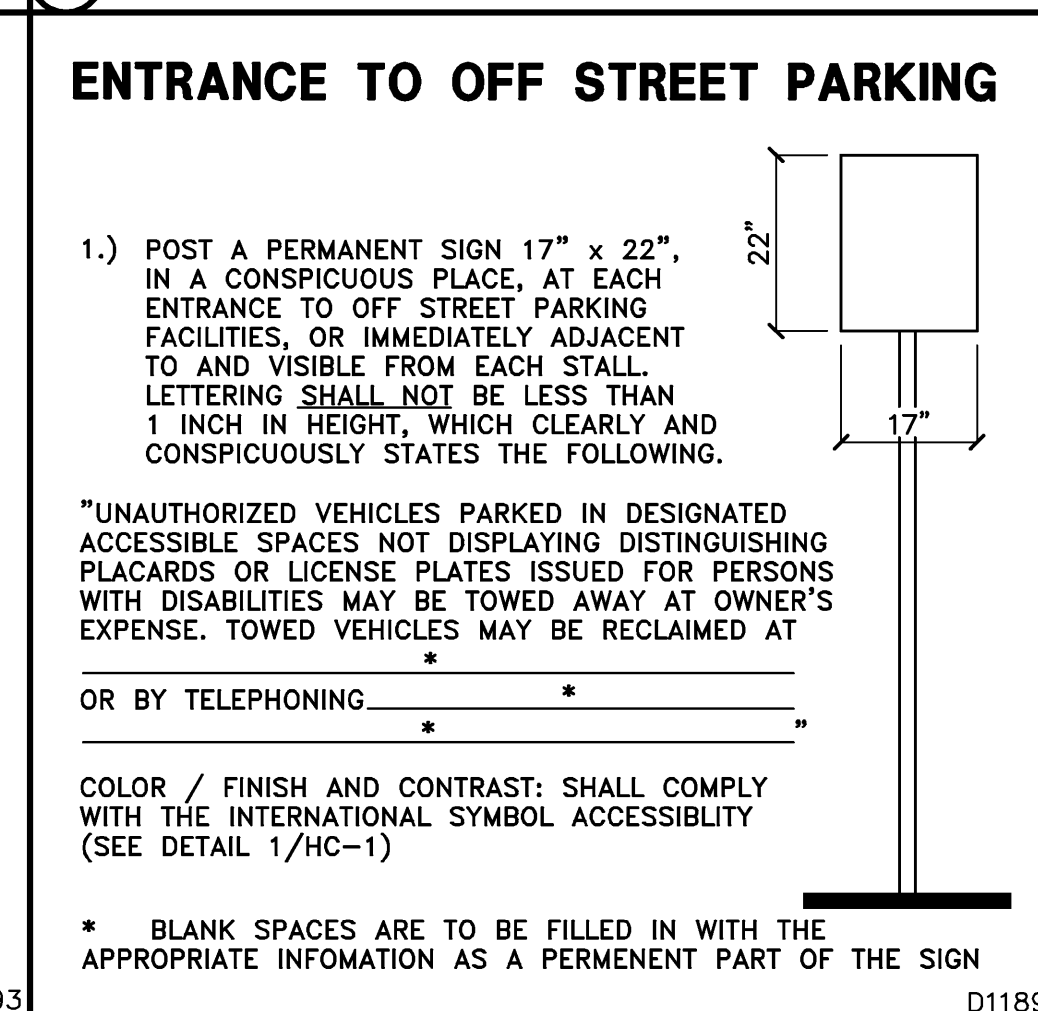
### 10 ACCESSIBLE PARKING STALL/SPACE REQUIREMENTS



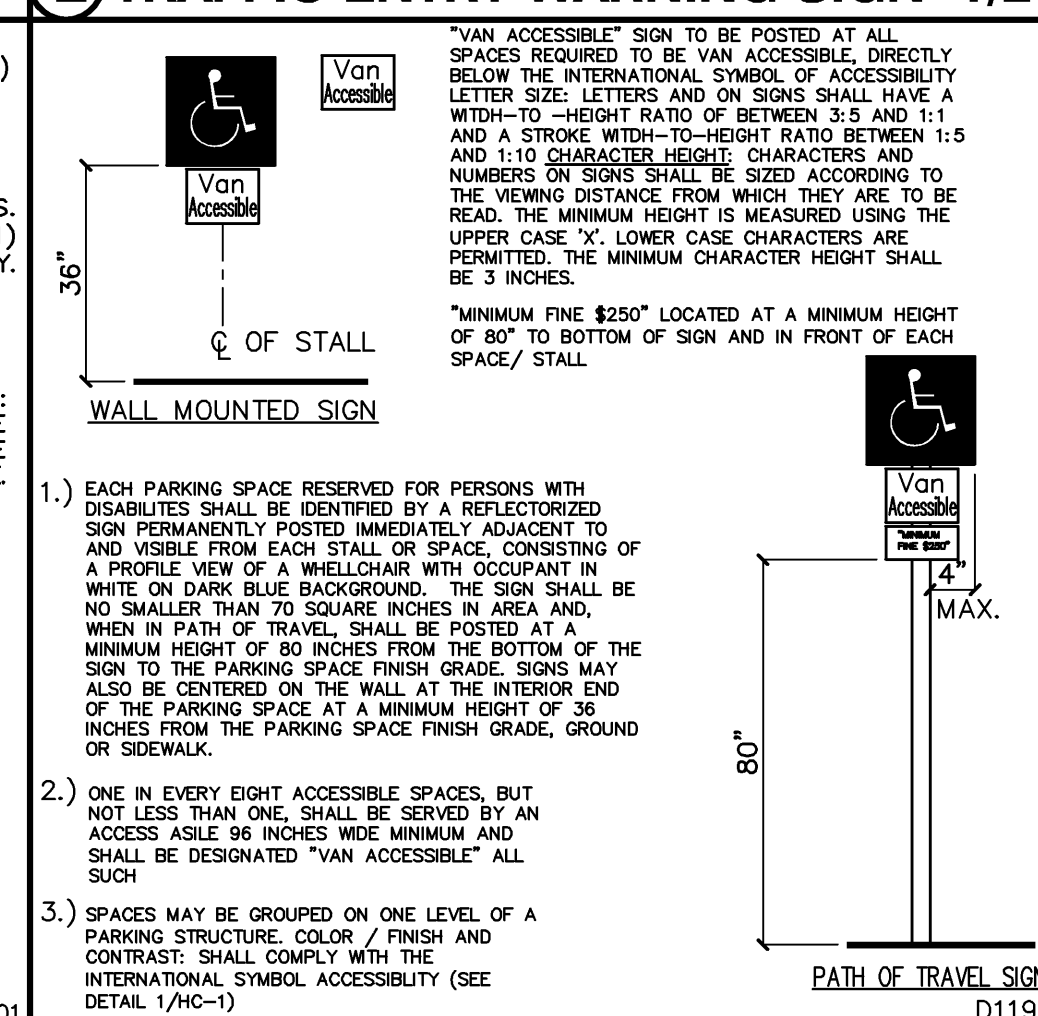
### 11 ACCESSIBLE TOILET FACILITY SIGNAGE



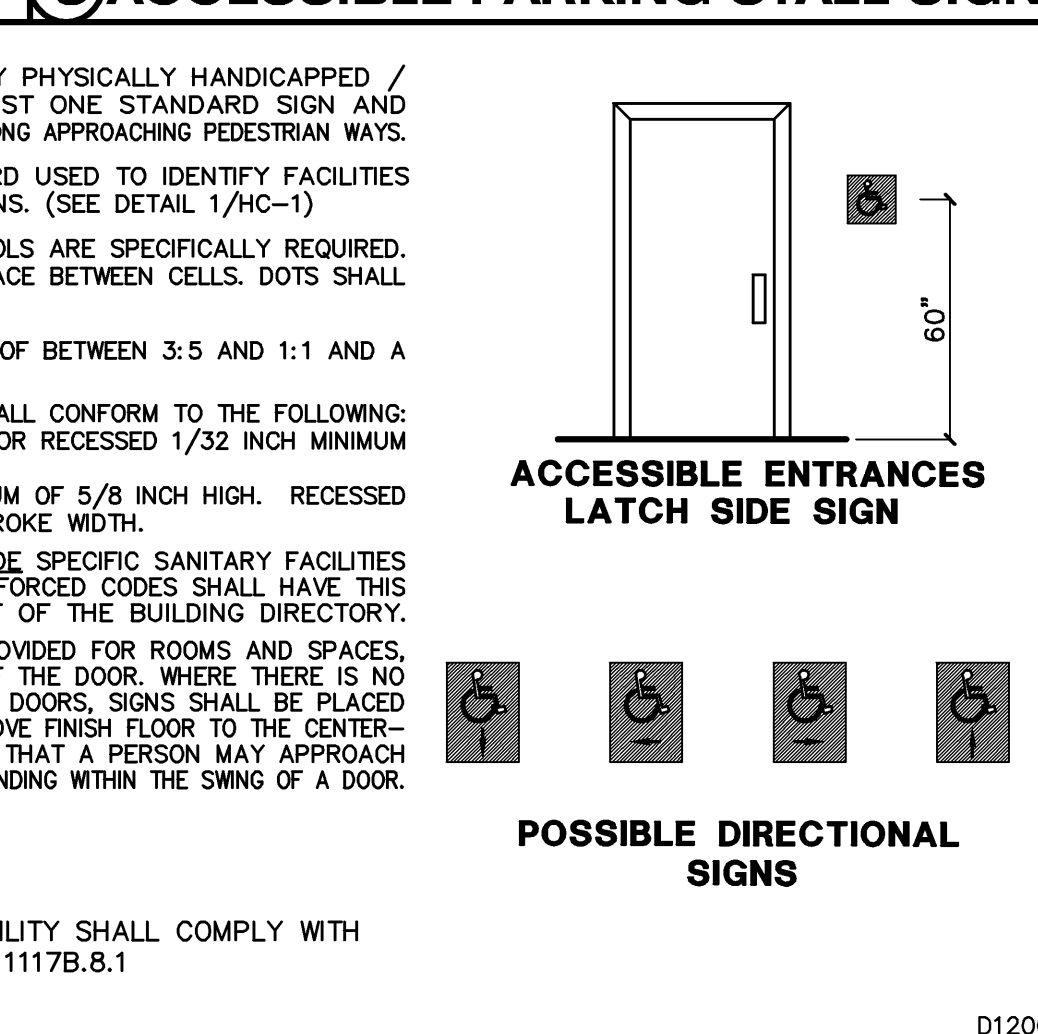
### 1 INTERNATIONAL SYMBOL OF ACCESSIBILITY



### 2 TRAFFIC ENTRY WARNING SIGN



### 3 ACCESSIBLE PARKING STALL SIGN



### 4 ENTRANCE SIGNS AND DIRECTIONAL SIGNS