ACCESSIBILITY NOTES

1. HANDRAILS & GRAB BARS

GENERAL: ALL HANDRAILS & GRAB BARS REQUIRED TO BE ACCESSIBLE SHALL COMPLY W/ ADAAG.

SIZE & SPACING OF GRAB BARS & HANDRAILS: THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A HANDRAIL OR GRAB BAR SHALL BE 1-1/4" TO 1-1/2", OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF HANDRAILS OR GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL & THE GRAB BAR SHALL BE 1-1/2". HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3" & EXTENDS AT LEAST 18" ABOVE THE TOP OF THE RAIL.

STRUCTURAL STRENGTH: THE STRUCTURAL STRENGTH OF GRAB BARS, TUB & SHOWER SEATS, FASTENERS, & MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATION: (1) BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250 LBF. SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT. (2) SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT. IF THE CONNECTION BETWEEN THE GRAB BAR OR SEAT & ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT & TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS. (3) SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD. (4) TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 LBF. PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER & THE SUPPORTING STRUCTURE. (5) GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

ELIMINATING HAZARDS: A HANDRAIL OR GRAB BAR & ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".

2. PROTRUDING OBJECTS:

GENERAL: OBJECTS PROJECTING FROM WALLS (FOR EXAMPLE, TELEPHONES) WITH THEIR LEADING EDGES BETWEEN 27 IN AND 80 IN ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4 IN INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27 IN ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT. FREESTANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG 12 IN MAXIMUM FROM 27 IN TO 80 IN ABOVE THE GROUND OR FINISHED FLOOR. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.

HEAD ROOM: WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES, OR OTHER CIRCULATION SPACES SHALL HAVE 80 IN MINIMUM CLEAR HEAD ROOM. IF VERTICAL CLEARANCE OF AN AREA ADJOINING AN ACCESSIBLE ROUTE IS REDUCED TO LESS THAN 80 IN (NOMINAL DIMENSION), A BARRIER TO WARN BLIND OR VISUALLY-IMPAIRED PERSONS SHALL BE PROVIDED.

3. GROUND AND FLOOR SURFACES:

GENERAL: GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, SLIP-RESISTANT.

CHANGES IN LEVEL: CHANGES IN LEVEL UP TO 1/4 IN MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4 IN AND 1/2 SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2 IN SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.

CARPET: IF 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 TEXTURE. THE MAXIMUM PILE THICKNESS SHALL BE 1/2 IN. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE.

GRATINGS: IF GRATINGS ARE LOCATED IN WALKING SURFACES, THEN THEY SHALL HAVE SPACES NO GREATER THAN 1/2 IN WIDE IN ONE DIRECTION. IF GRATINGS HAVE ELONGATED OPENINGS, THEN THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

4. SPACE ALLOWANCE AND REACH RANGES:

WHEELCHAIR PASSAGE WIDTH: THE MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR PASSAGE SHALL BE 32 IN AT A POINT AND 36 IN CONTINUOUSLY
WIDTH FOR WHEELCHAIR PASSING. THE MINIMUM WIDTH FOR TWO WHEELCHAIRS TO PASS IS 60 IN.

WHEELCHAIR TURNING SPACE: THE SPACE REQUIRED FOR A WHEELCHAIR TO MAKE A 180-DEGREE TURN IS A CLEAR SPACE OF 60 IN DIAMETER OR A T-SHAPED SPACE

CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS: SIZE AND APPROACH. THE MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30 IN BY 48 IN. THE MINIMUM CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT. CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE PART OF THE KNEE SPACE REQUIRED UNDER SOME OBJECTS.

RELATIONSHIP OF MANEUVERING CLEARANCE TO WHEELCHAIR SPACES: ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE FOR A WHEELCHAIR SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER WHEELCHAIR CLEAR FLOOR SPACE. IF A CLEAR FLOOR SPACE IS LOCATED IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OR PART OF THREE SIDES.

SURFACES FOR WHEELCHAIR SPACES: CLEAR FLOOR OR GROUND SPACES FOR WHEELCHAIRS SHALL COMPLY WITH 4.5. FORWARD REACH. IF THE CLEAR FLOOR SPACE ONLY ALLOWS FORWARD APPROACH TO AN OBJECT, THE MAXIMUM HIGH FORWARD REACH ALLOWED SHALL BE 48 IN THE MINIMUM LOW FORWARD REACH IS 15 IN. IF THE HIGH FORWARD REACH IS OVER AN OBSTRUCTION.

SIDE REACH: IF THE CLEAR FLOOR SPACE ALLOWS PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR, THE MAXIMUM HIGH SIDE REACH ALLOWED SHALL BE 54 IN AND THE LOW SIDE REACH SHALL BE NO LESS THAN 9 IN ABOVE THE FLOOR.

5. DOORS:

GENERAL: DOORS REQUIRED TO BE ACCESSIBLE BY 4.1 SHALL COMPLY WITH THE REQUIREMENTS OF 4.13.

CLEAR WIDTH: DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 IN (815 MM) WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP (SEE FIG. 24(A), (B), (C), AND (D)). OPENINGS MORE THAN 24 IN (610 MM) IN DEPTH SHALL COMPLY WITH 4.2.1 AND 4.3.3 (SEE FIG. 24(E)). EXCEPTION: DOORS NOT REQUIRING FULL USER PASSAGE, SUCH AS SHALLOW CLOSETS, MAY HAVE THE CLEAR OPENING REDUCED TO 20 IN (510 MM) MINIMUM.

MANEUVERING CLEARANCES AT DOORS: MINIMUM MANEUVERING CLEARANCES AT DOORS THAT ARE NOT AUTOMATIC OR POWER-ASSISTED SHALL BE AS SHOWN IN FIG. 25. THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR. EXCEPTION: ENTRY DOORS TO ACUTE CARE HOSPITAL BEDROOMS FOR IN-PATIENTS SHALL BE EXEMPTED FROM THE REQUIREMENT FOR SPACE AT THE LATCH SIDE OF THE DOOR (SEE DIMENSION "X" IN FIG. 25) IF THE DOOR IS AT LEAST 44 IN (1120 MM) WIDE.

THRESHOLDS AT DOORWAYS: THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4 IN (19 MM) IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2 IN (13 MM) FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 (SEE 4.5.2).

DOOR HARDWARE: HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS INDICATED ON THE DOOR SCHEDULE

DOOR CLOSURES: IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 IN (75 MM) FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

DOOR OPENING FORCE: THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS: (1) FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. (2) OTHER DOORS. (A) EXTERIOR HINGED DOORS: (RESERVED). (B) INTERIOR HINGED DOORS: 5 LBF (22.2N) (C) SLIDING OR FOLDING DOORS: 5 LBF (22.2N) THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.

6. SIGNAGE:

ENTRANCES: ENTRANCES WHICH ARE NOT ACCESSIBLE SHALL HAVE DIRECTIONAL SIGNAGE WHICH INDICATES THE LOCATION OF THE NEAREST ACCESSIBLE ENTRANCE.

CHARACTER PROPORTION: LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.

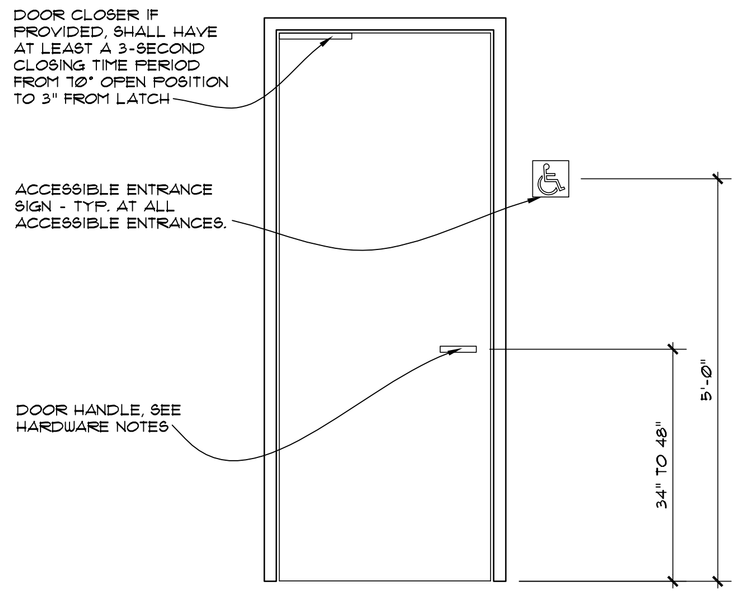
CHARACTER HEIGHT: CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. HEIGHT ABOVE MINIMUM FINISHED FLOOR CHARACTER HEIGHT SUSPENDED OR PROJECTED 3"

RAISED AND BRAILLED CHARACTERS AND PICTORIAL SYMBOL SIGNS: LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MINIMUM IN HEIGHT.

FINISH AND CONTRAST: THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND --EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

MOUNTING LOCATION AND HEIGHT: WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

SYMBOLS OF ACCESSIBILITY: FACILITIES AND ELEMENTS REQUIRED TO BE IDENTIFIED AS ACCESSIBLE SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.



TYPICAL SIGN DOOR

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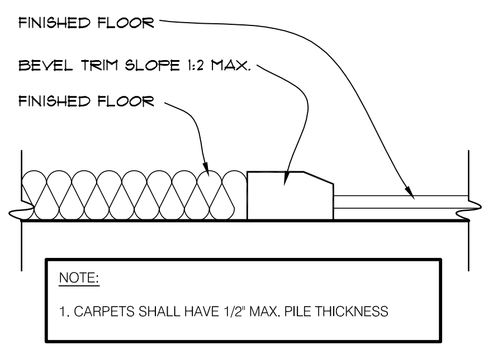

FLOOR DETAIL

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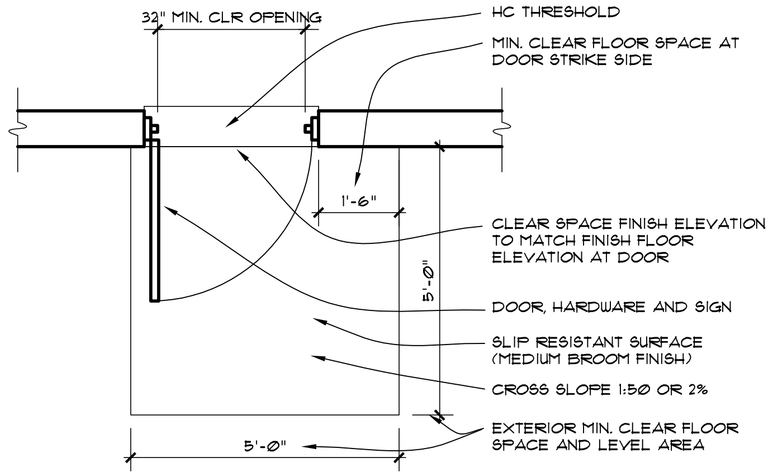

DOOR CLEARANCE

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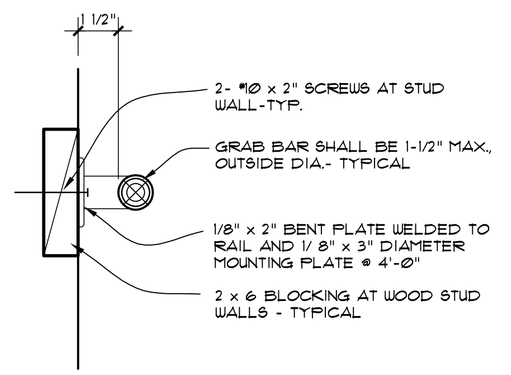

GRAB BAR DETAIL

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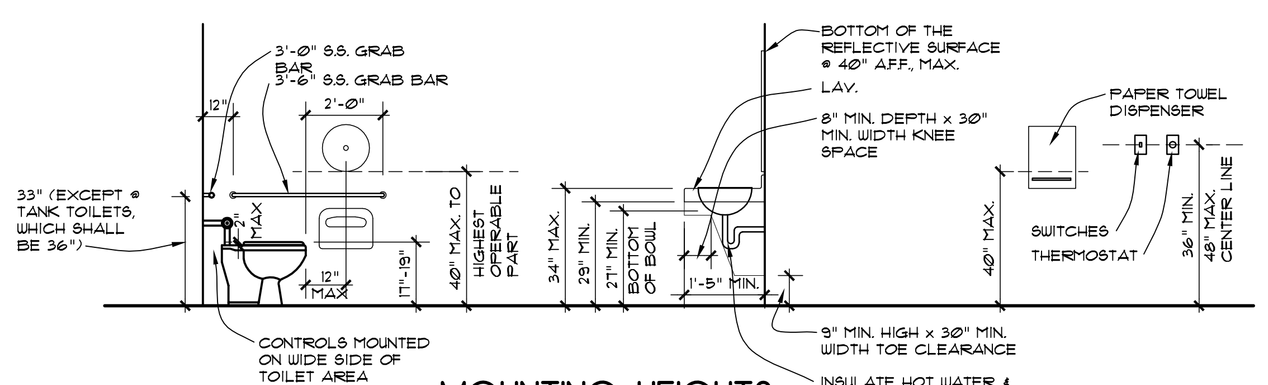

MOUNTING HEIGHTS

N.T.S.

CLARKE ARCHITECTS, INC.

2433 Shillingham Ct.
Powell, Ohio 43065-9595
Office: 614-791-1200
Mobile: 614-271-8420
jclarke@clarkearchitects.com

STATE OF OHIO
James W. Clarke
9924
REGISTERED ARCHITECT

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DATE: JULY 27, 2011

REVISION DATE:

PROJECT:

OFFICE BUILDING
94 N. SANDUSKY ST.
DELAWARE, OHIO 43015

PROJECT NUMBER: CA1201129

SHEET TITLE:

ADAAG NOTES

SHEET NUMBER: ADAAG-1

NAME: CLARKE Y:\COMMERCIAL\92 - 94 N. SANDUSKY\94\ADAAG-1.DWG DATE: JUL 27, 2011 TIME: 6:52 PM