THRESHOLDS

THRESHOLDS SHALL NOT EXCEED 1/2 INCH IN HEIGHT AND SHALL BE BEVELED ON BOTH SIDES WITH A SLOPE NO GREATER THAN 40%.

1 1/4"	112"
SOLID THRESHOLD	METAL THRESHOLD

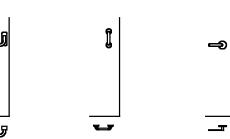
TRHESHOLDS

DOOR HARDWARE

HEIGHT: HAND OPERATED DOOR OPENING HARDWARE SHALL BE LOCATED 37 INCHES TO 47 INCHES ABOVE THE FLOOR.

OPERATION: DOORS IN THE MEANS OF EGRESS SHALL BE OPERABLE WITH ONE HAND AND WITH A SINGLE EFFORT. DOORS IN THE PATHS OF INGRESS SHALL BE ABLE TO BE UNLOCKED AND OPENED WITH ONE HAND. THE FORCE REQUIRED TO OPERATE THE HARDWARE SHALL BE NO GREATER THAN 5 FT. LB.

SPECIAL HARDWARE: DOORS OPENING INTO HAZARDOUS AREAS SHALL HAVE DOOR-OPENING HARDWARE WHICH IS KNURLED OR HAS A ROUGHENED SURFACE TO GIVE TACTILE WARNING TO PERSONS WITH VISUAL IMPAIRMENTS. HAZARDOUS AREAS SHALL INCLUDE BUT NOT BE LIMITED TO LOADING PLATFORMS, BOILER ROOMS, AND ELECTRICAL EQUIPMENT ROOMS.



DOOR HARDWARE



CROSS SLOPE

THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1.5%. ALL SLOPES SHALL BE SUBJECT TO MEASUREMENT BY A 2'-0" LONG "SMART LEVEL" ON A 2X 2 GRID.

EDGE PROTECTION

EDGE CURBS SHALL BE A MINIMUM OF 3 INCHES HIGH, FROM FLOOR SURFACE TO TOP EDGE OF CURB.

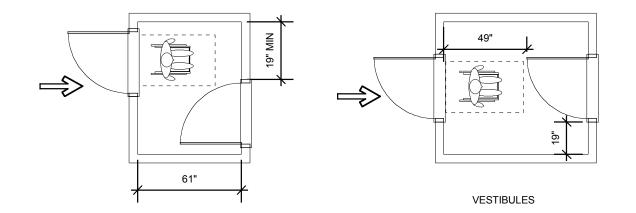
OUTDOOR CONDITIONS

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

ENTRANCES

VESTIBULES

BETWEEN ANY TWO HINGED OR PIVOTED DOORS, THERE SHALL BE A MINIMUM OF 49 INCHES PLUS THE WIDTH OF ANY DOOR SWINGING INTO THE SPACE.



MATS AND GRATES

DOOR MATS 1/2 INCH THICK OR LESS SHALL BE SECURELY ANCHORED AT ALL EDGES TO AVOID TRIPPING. DOOR MATS MUST BE SECURED WITH BEVELED EDGING THAT SLOPES NO MORE THAN 40%. GRATES SHALL HAVE OPENINGS NOT EXCEEDING 1/2 INCH IN THE PATH OF TRAVEL.

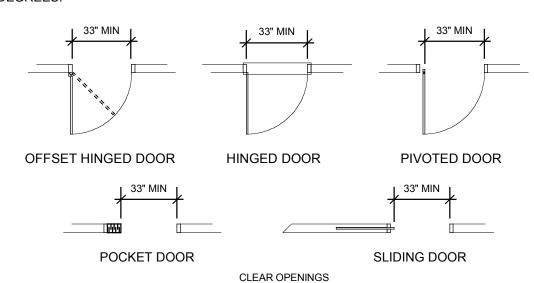
SIGNAGE

ANY ENTRANCE/EXIT OF A FACILITY NOT ACCESSIBLE BY PERSONS IN A WHEELCAHIRS SHALL HAVE A SIGN CLEARLY INDICATING THE LOCATION OF THE ACCESSIBLE ENTRANCE/EXIT.

DOORS AND DOORWAYS

WIDTH

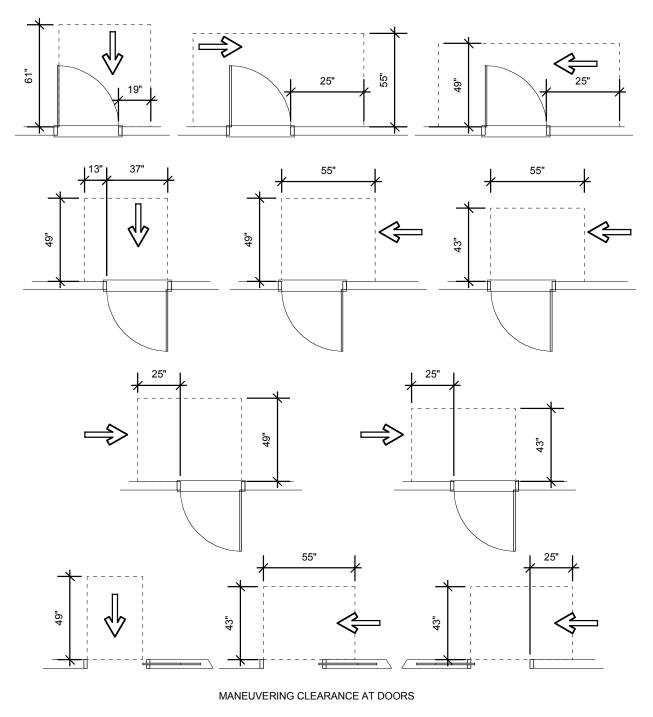
ALL DOORWAYS AND OPENINGS THAT ARE REQUIRED TO BE ACCESSIBLE SHALL HAVE A CLEAR OPENING OF NOT LESS THAN 33 INCHES. CLEAR OPENING OF A DOOR IS MEASURED FROM THE FACE OF THE STOP ON THE LATCH SIDE TO THE OF THE DOOR WHEN THE DOOR IS OPEN 90 DEGREES.



MANEUVERING CLEARANCE

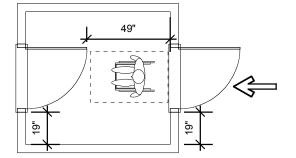
PULL SIDE CLEARANCE SHALL COMPLY WITH THE FOLLOWING:

A MINIMUM OF 19 INCHES OF CLEAR FLOOR SPACE SHALL BE PROVIDED ON THE LATCH, PULL SIDE OF THE DOOR.



TWO DOORS IN SERIES

THE MINIMUM SPACE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES SHALL BE 49 INCHES PLUS THE WIDTH OF ANY DOOR SWINGING INTO THE SPACE.

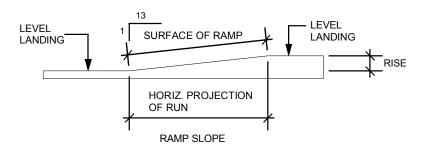


RAMPS

SLOPE AND RISE

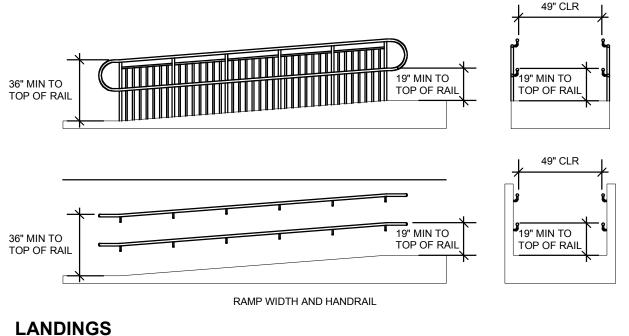
THE MAXIMUM SLOPE OF A RAMP SHALL BE 1:13, MEASURED WITH A 2'-0" LONG "SMART LEVEL" ON A 2X2 GRID.

THE MAXIMUM RISE FOR ANY RUN SHALL BE 29 INCHES.



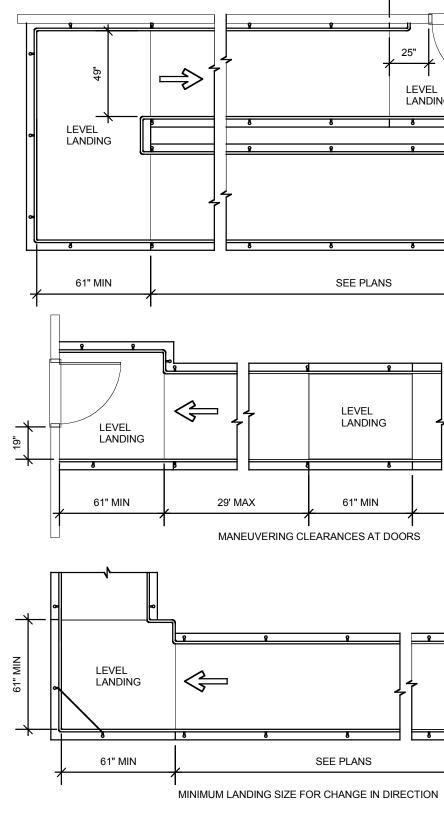
CLEAR WIDTH

THE MINIMUM CLEAR WIDTH OF A RAMP SHALL BE 49 INCHES, MEASURED BETWEEN THE RAILINGS.





THE MAXIMUM LENGTH OF A RAMP RUN BETWEEN LANDINGS SHALL NOT EXCEED 29 FEET



WIDTH: THE LANDING SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.

LENGTH: THE LANDING LENGTH SHALL BE A MINIMUM OF 61 INCHES CLEAR.

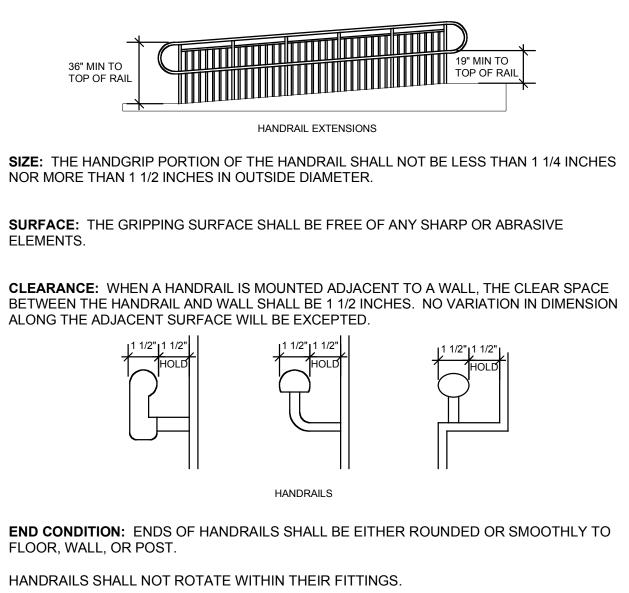
DIMENSIONS FOR TURNING: THE MINIMUM LANDING SIZE SHALL BE 61 INCHES BY 61 INCHES.

HANDRAILS

HEIGHTS: HANDRAILS SHALL BE PROVIDED IN PAIRS, ONE AT A HEIGHT OF 36 INCHES, AND A LOWER ONE AT A HEIGHT OF 19 INCHES, MEASURED VERTICALLY FROM THE SURFACE OF THE RAMP TO TOP OF HANDRAIL.

CONTINUOUS SURFACE: HANDRAILS SHALL BE CONTINUOUS WITHOUT INTERRUPTION, EXCEPT BY DOORWAYS AND OPENINGS, SO THAT A HAND CAN MOVE FROM END TO END WITHOUT INTERRUPTION.

EXTENSIONS: HANDRAILS SHALL EXTEND AT LEAST 13 INCHES BEYOND THE TOP AND BOTTUM OF THE RAMP AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.



GRADE

WALKWAY SLOPES SHALL BE A MAXIMUM OF ONE-IN-21 (1:21) (4.8%). CROSS SLOPE SHALL NOT EXCEED 1.9%

LEVEL CHANGE

OR CHANGES IN LEVEL GREATER THAN 1/4 INCH.

GREATER THAN 40%.

1/4" TO 1/2"	40% SLOPE
	CHANGES IN LEV

WALKWAY SURFACE MEASUREMENTS WILL BE SUBJECT TO A 2'-0" LONG "SMART LEVEL" ON A 2X2 GRID.

INTERSECTIONS

SURFACE

THE INTERSECTING SURFACES SHALL BLEND TO A COMMON LEVEL WITH A SLOPE NO GREATER THAN 4%.

19" MIN TO

TOP OF RAIL

61"

____J

SEE PLANS

LEVEL LANDING

61" MIN

LEVEL

LANDING

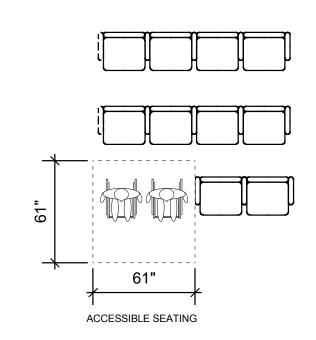
29' MAX

WALKWAYS SHALL HAVE CONTINUOUS COMMON SURFACES, NOT INTERRUPTED BY STEPS

CHANGES IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO

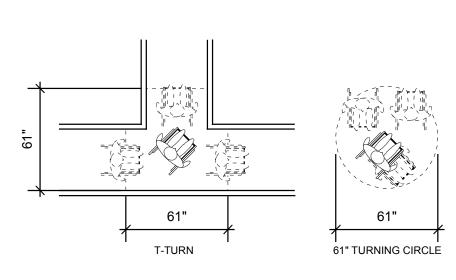
PLACES OF ASSEMBLY ACCESSIBLE SEATS & SPACES

ALL DIMENSIONS ARE MINIMUM AND MUST BE HELD. IN ADDITION, 1% OF ALL SEATS, SHALL BE AISLE SEATS WITH REMOVABLE ARMS.



THRESHOLDS

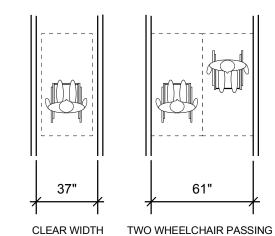
WHERE IT IS NECESSARY TO UTILIZE A DOOR THRESHOLD OR A CHANGE IN LEVEL BETWEEN TWO SURFACES THE 1/2" DIMENSION CANNOT BE EXCEEDED FROM FINISH FLOOR TO TOP OF THRESHOLD.



THE SPACE REQUIRED FOR A WHEELCHAIR TO MAKE A 180-DEGREE TURN IS A CLEAR SPACE OF 61 INCHES. THE MINIMUM SPACE MUST BE ADHERED TO FROM FINISH WALL TO FINISH WALL INCLUDING SURFACE MATERIALS.

WHEELCHAIR TURNING SPACE





THE MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR PASSAGE SHALL BE 37 INCHES AND FOR TWO CHAIRS SHALL BE 61 INCHES. THE MINIMUM CLEAR WIDTH MUST BE ADHERED TO ALL PASSAGEWAYS FROM FINISH WALL TO FINISH WALL INCLUDING SURFACE MATERIALS.

WHEELCHAIR PASSAGE WIDTH

SPACE ALLOWANCE

SIGNS SHALL BE LOCATED AT A HEIGHT OF NOT LESS THAN FIVE FEET ONE INCH, NOR MORE THAN SEVEN FEET ELEVEN INCHES TO THE TOP OF THE SIGN.

SIGNAGE A SIGN SHALL BE LOCATED AT THE HEAD OF EACH SPACE AND NO MORE THAN NINE FEET ELEVEN INCHES AWAY FROM PARKING SPACE.

ENERGY LAB

Hawai'i Preparatory Academy

Kamuela, Hawaii TMK: 6-5-1: 33

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Architecture Master Planning Space Planning Interior Design

PROJECT MANAGEMENT Pa'ahana Enterprises, LLC P.O.Box 109 Kealakekua, HI 9675 808.323.2304 tel/fax

SUSTAINABILITY Buro Happold Consulting Engineers PC 100 Broadway, 23rd Floor New York, NY, 10005 212 334 2025 tel

CIVIL ENGINEERING Belt Collins Hawaii Ltd. 2153 North King Street, Suite 200 Honolulu, Hawaii 96819 808.521.5361 tel 808.538.7819 fax

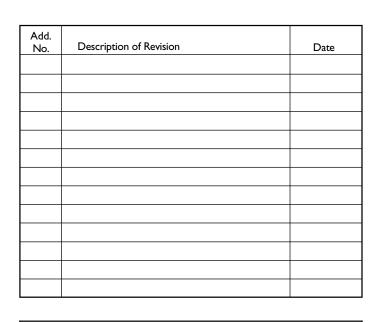
STRUCTURAL ENGINEERING Walter Vorfeld & Associates 10 Ulana Street Makawao, Maui, HI 96768 808.572.3535 tel 808.573.3616 fax

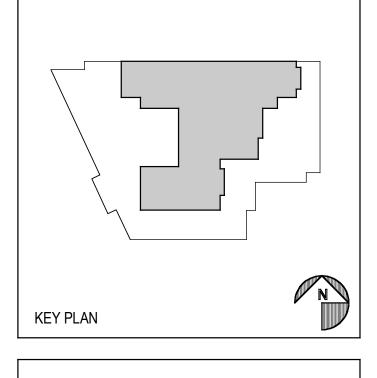
MECHANICAL ENGINEERING Hakalau Enginnering, LCC PO Box 252 Hakalau, Hawaii 96710 808.961.6206 tel

ELECTRICAL ENGINEERING Wallace T. Oki, PE, Inc.

> This work was performed by me or under my supervision and construction of this project will be under my observation (observation of construction as defined in section 16-115-2 of the rules and regulations of the Board of Professional Engineers, Architects and Surveyors of the State of Hawaii).

Duncan P. McClelland, AIA Architect License No. 13148, Expires 4/30/2010





ACCESSIBILITY STANDARDS

Drawn by:	BF	Job Number:	2804.00
Checked by:	FAI	Scale:	
Plot Date: 19 JAN 2	2009	Issue Date: 19 JAN 2009	
		A 0.2	