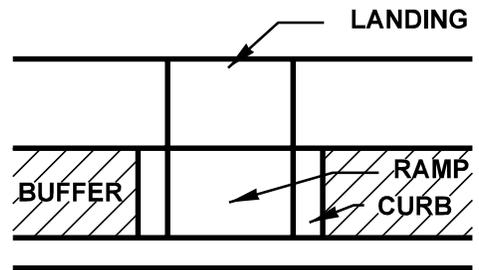
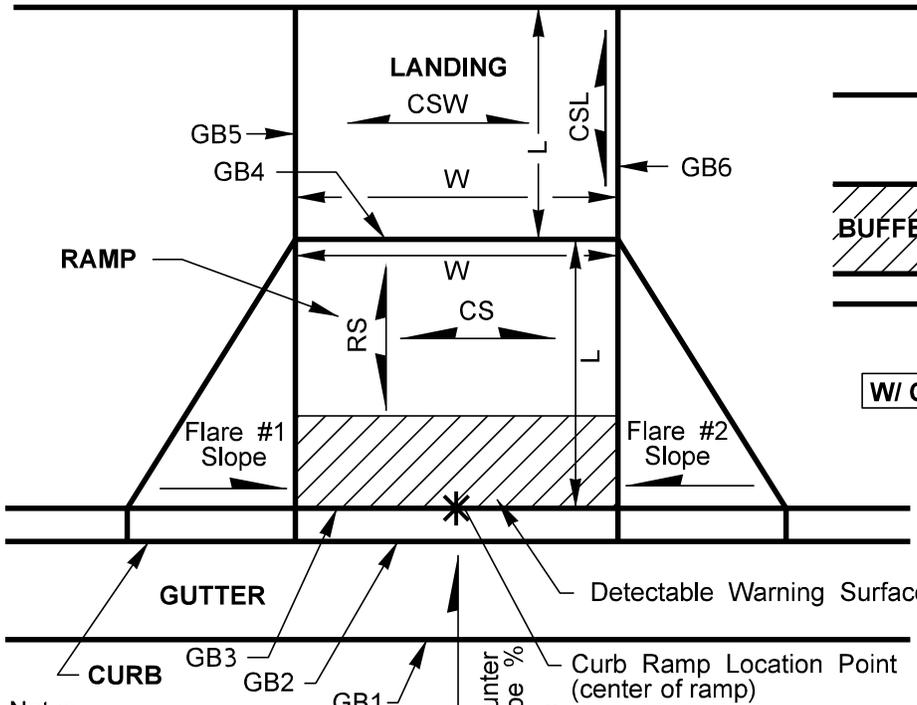


# ADA DATA DICTIONARY DIAGRAMS

2nd Edition  
December 2010

prepared by  
Kurt Sielbach & Sally Anderson



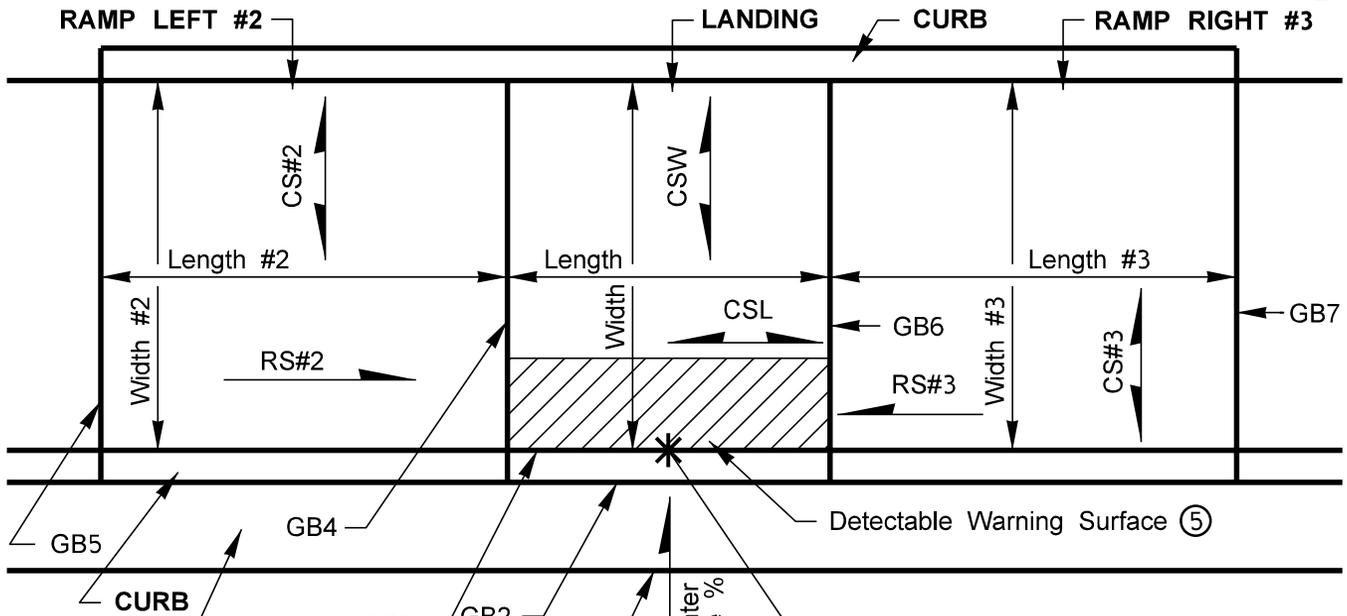
may also be w/ out flare when buffer present  
**W/ OUT FLARE/ WITH BUFFER**

RS- Running Slope  
 CS- Cross Slope  
 CSW- Cross Slope Width  
 CSL- Cross Slope Length  
 GB- Grade Break  
 W- Width  
 L- Length

**Notes:**

- ① Measurement always taken in center of element, except where noted.
- ② Grade Breaks must be flush the entire width. Take worse case measurement for entire width.
- ③ Counter Slopes are measured from face of curb to edge of gutter or 2 ft. max. from face of curb when gutter not present.
- ④ Slope arrow indicates positive read. If both directions shown just record value.
- ⑤ See Detachable Warning Surface detail.
- ⑥ Flare Slope measured parallel to curb.

# PERPENDICULAR CURB RAMP



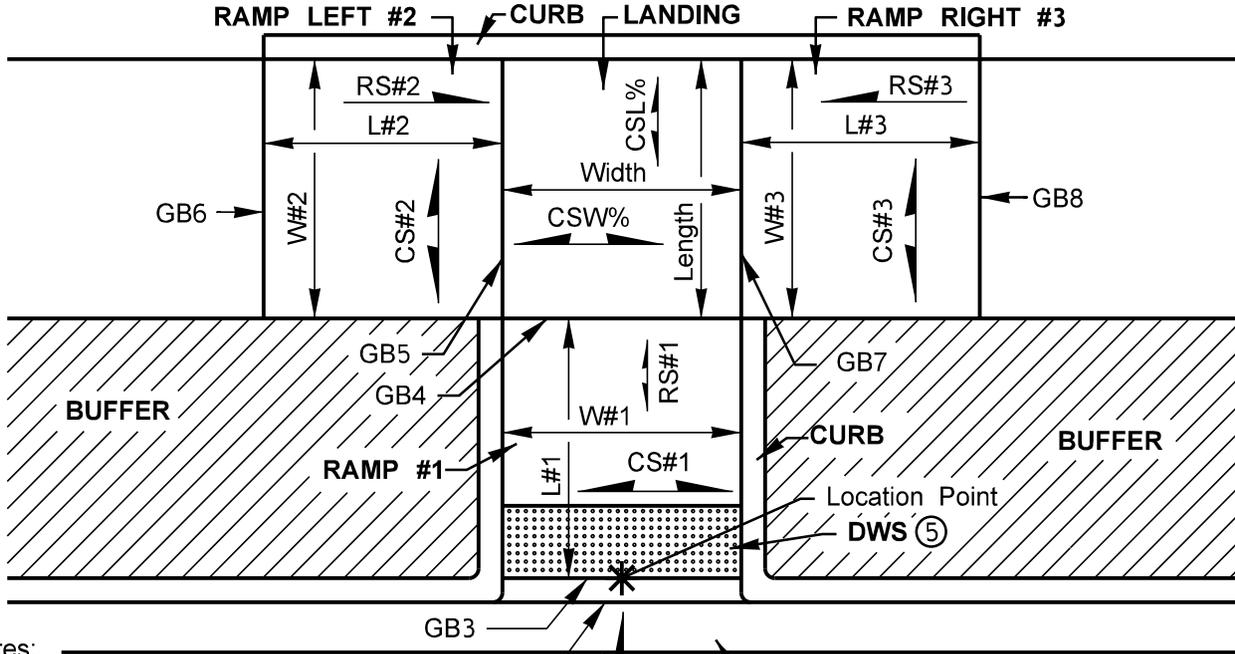
Notes:

- ① Measurement always taken in center of element, except where noted.
- ② Grade Breaks must be flush the entire width. Take worst case measurement for entire width.
- ③ Counter Slopes are measured from face of curb to edge of gutter or 2 ft. max. from face of curb when gutter not present.
- ④ Slope arrow indicates positive read. If both directions shown just record value.
- ⑤ See Detectable Warning Surface detail.

- ③ Counter Slope %
- Curb Ramp Location Point (center of ramp)

CS- Cross Slope  
 CSW- Cross Slope Width  
 CSL- Cross Slope Length  
 GB- Grade Break  
 RS- Running Slope

# PARALLEL CURB RAMP



Notes:

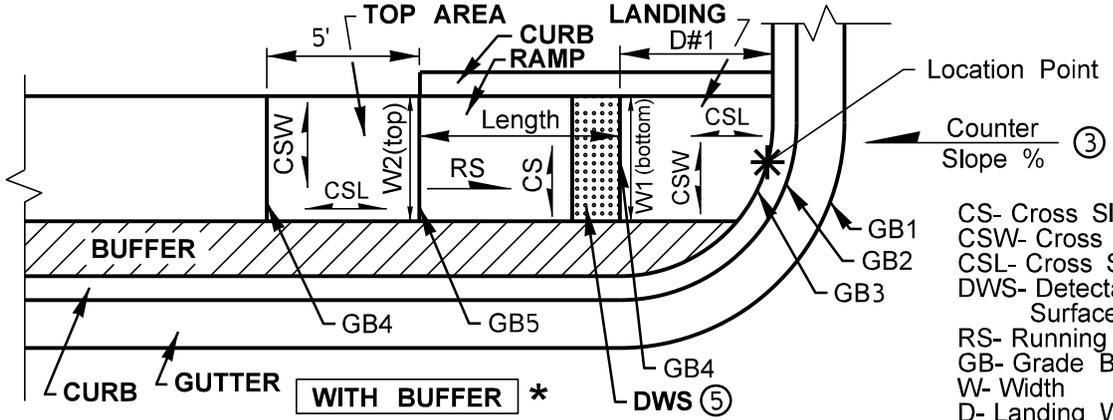
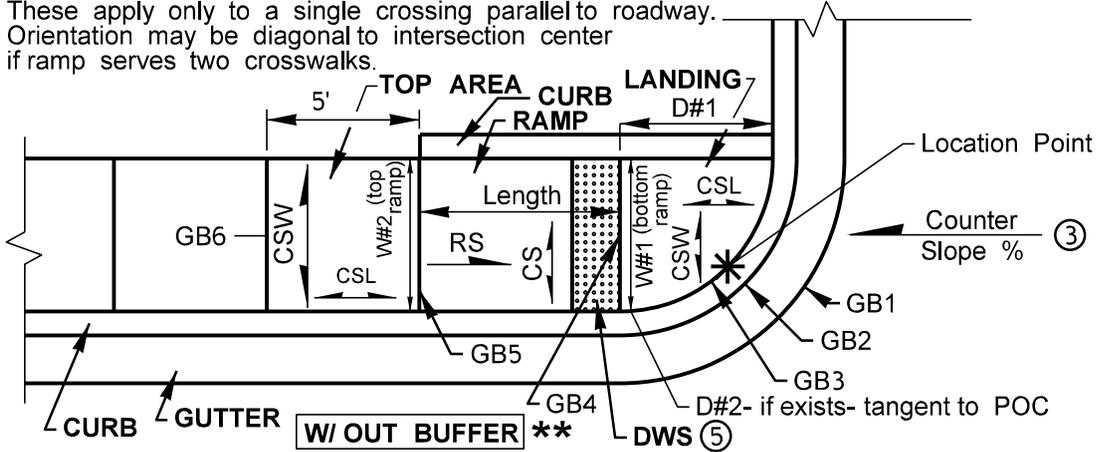
- ① Measurement always taken in center of element, except where noted.
- ② Grade Breaks must be flush the entire width. Take worse case measurement for entire width.
- ③ Counter Slopes are measured from face of curb to edge of gutter or 2 ft. max. from face of curb when gutter not present.
- ④ Slope arrow indicates positive read. If both directions shown, just record value.
- ⑤ See Detectable Warning Surface detail.

Counter Slope % ③

RS- Running Slope  
 CS- Cross Slope  
 W- Width  
 L- Length  
 GB- Grade Break  
 DWS- Detectable Warning Surface

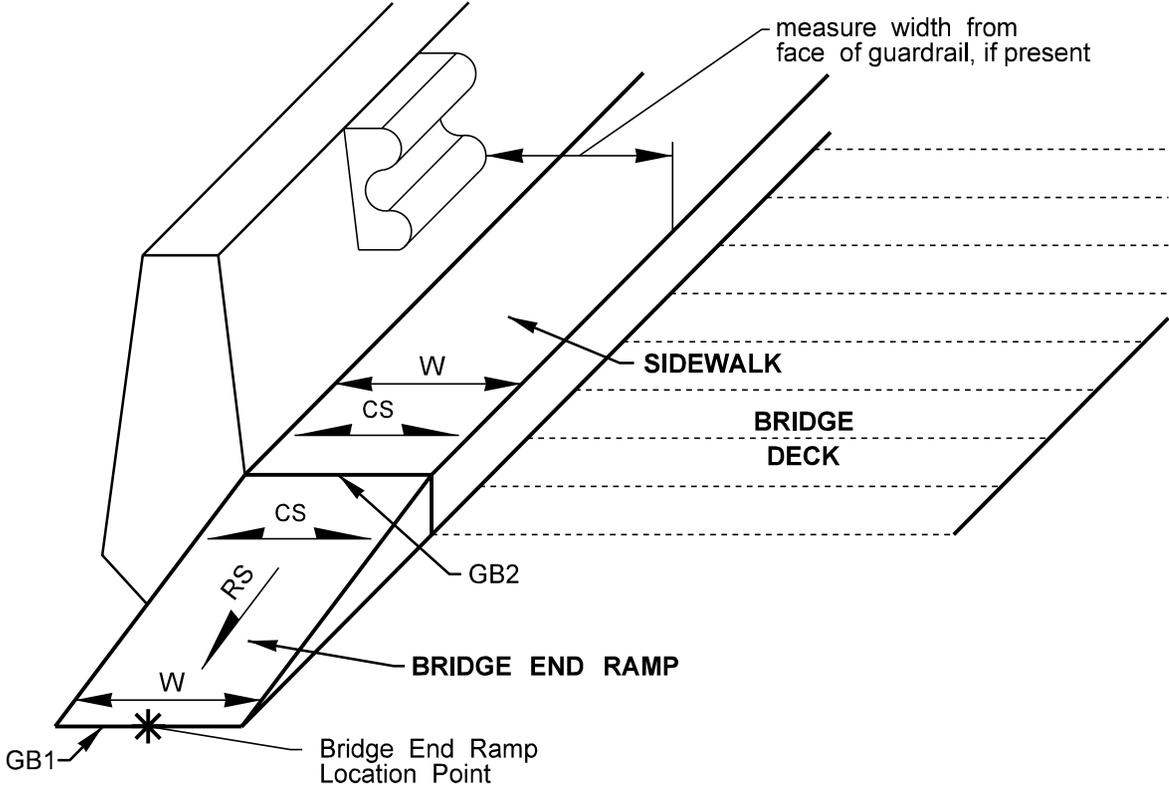
# COMBINATION CURB RAMP

\* These apply only to a single crossing parallel to roadway.  
 \*\* Orientation may be diagonal to intersection center if ramp serves two crosswalks.

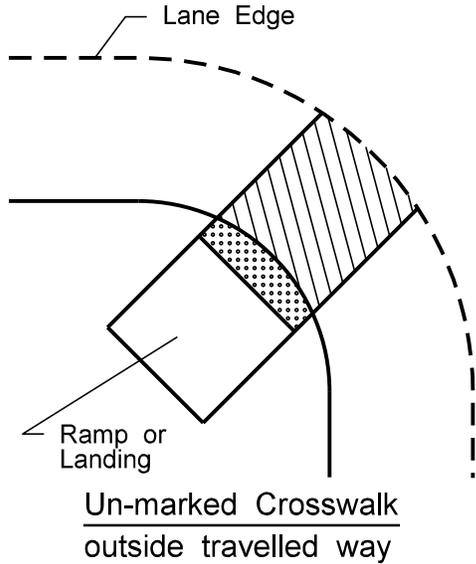


- CS- Cross Slope
- CSW- Cross Slope Width
- CSL- Cross Slope Length
- DWS- Detectable Warning Surface
- RS- Running Slope
- GB- Grade Break
- W- Width
- D- Landing Width

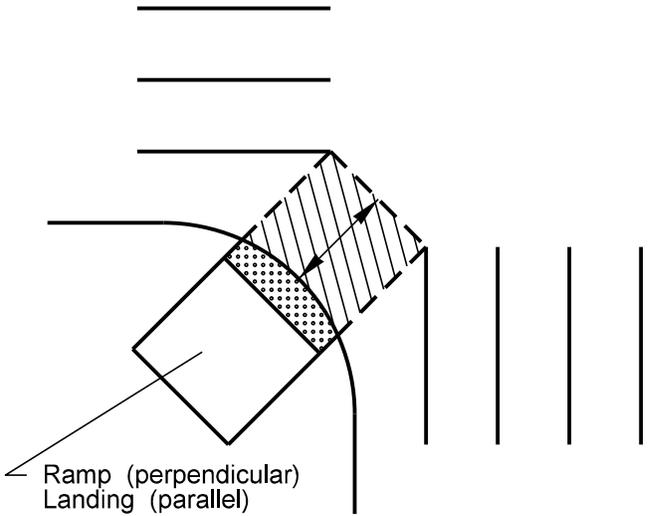
## PARALLEL CURB RAMP-One Direction



# SIDEWALK ON BRIDGE/BRIDGE END RAMP



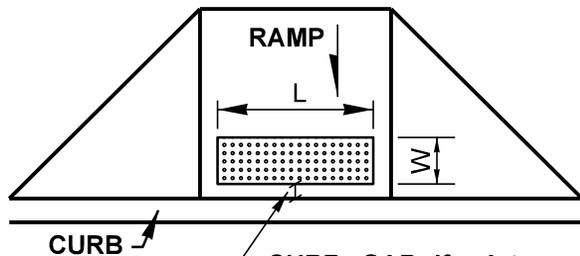
Measure Clear Space from center of ramp/landing face of curb  $\perp$ , area within crosswalk or outside travelled way.



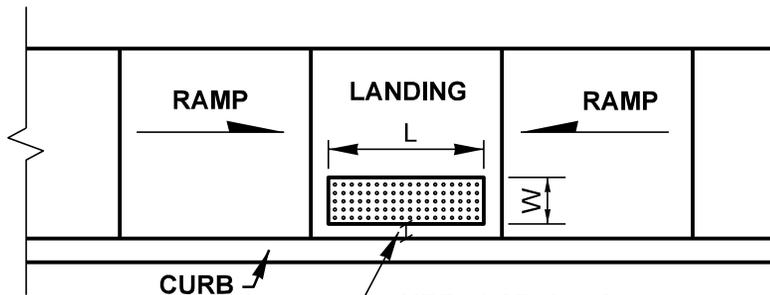
\* serves two crosswalks and points toward center of intersection

Marked Crosswalk

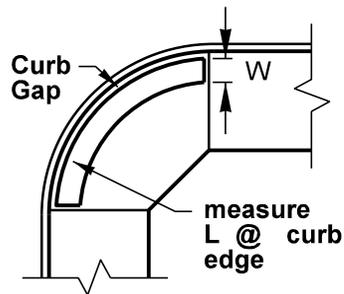
# DIAGONAL CURB RAMP\*- Clear Space



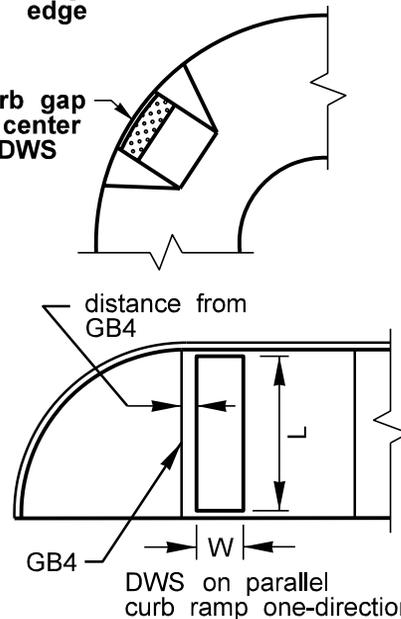
**CURB GAP-** if exists space between back of curb & DWS, measured in center of DWS



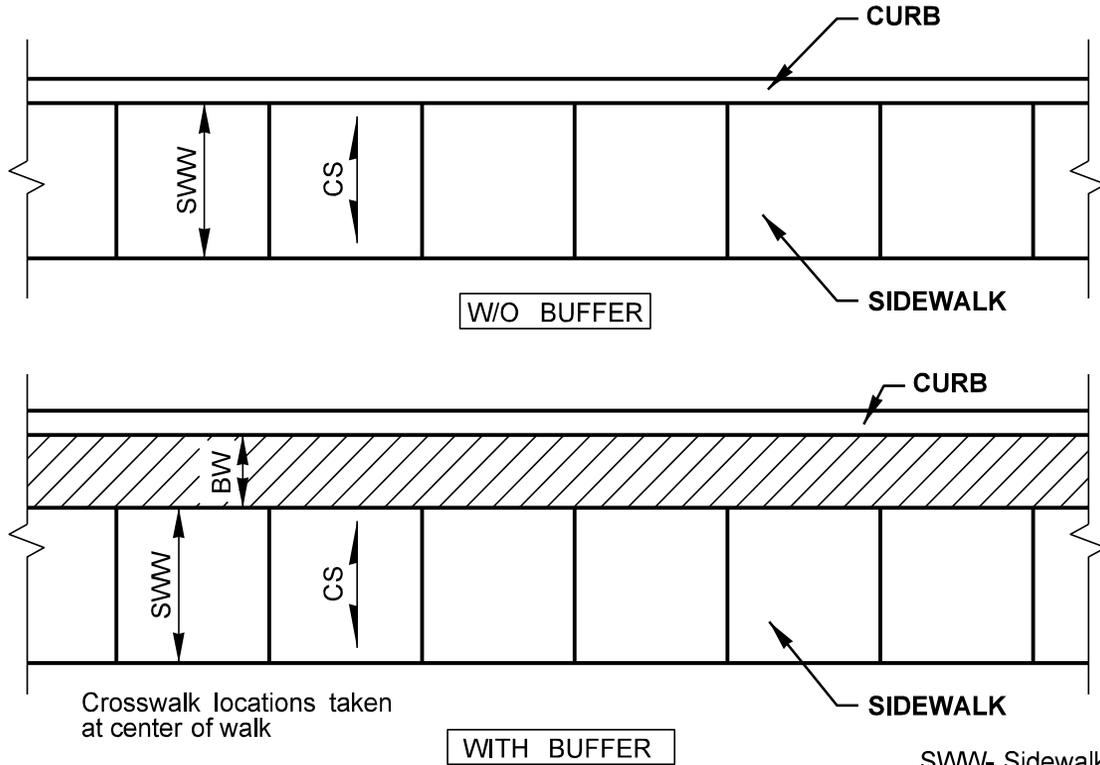
**CURB GAP-** if exists space between back of curb & DWS, measured in center of DWS



**Curb gap** in center of DWS

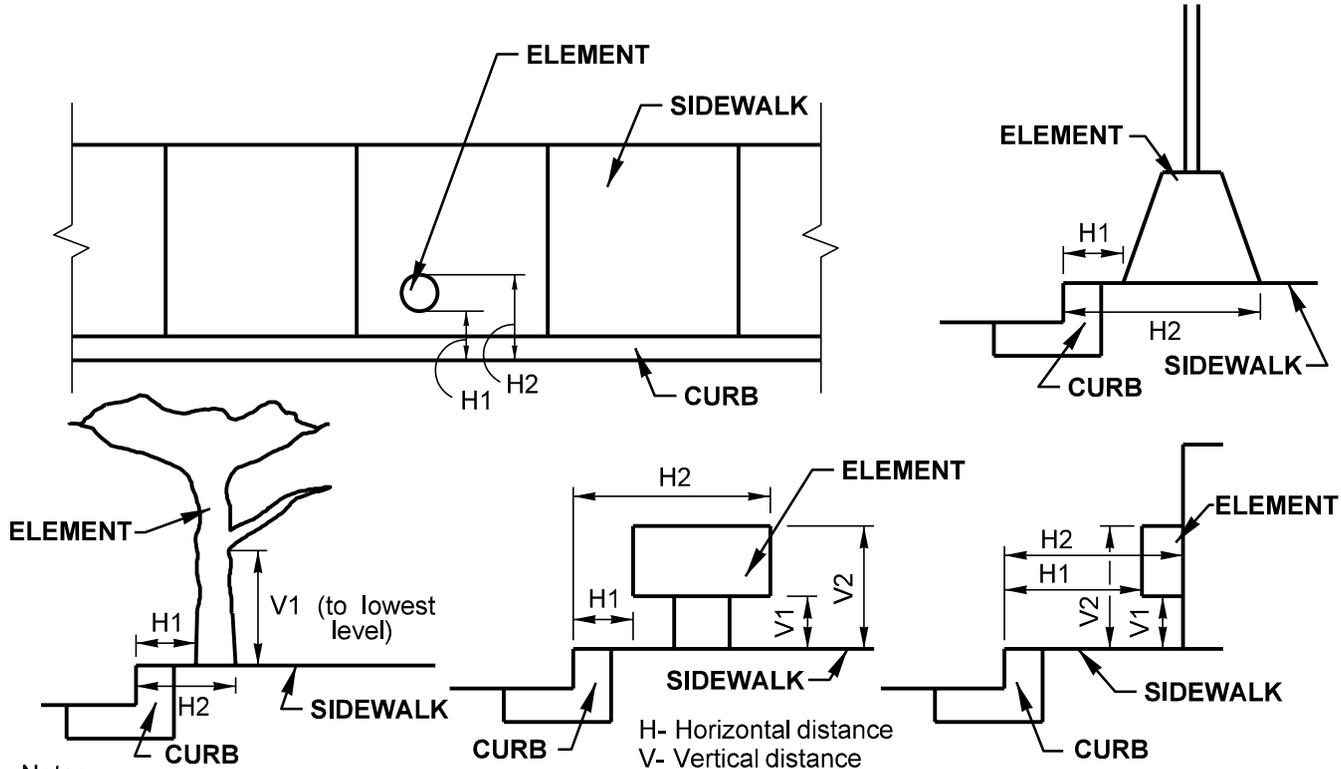


## DWS- Detectable Warning Surface



## SIDEWALK ADJACENT

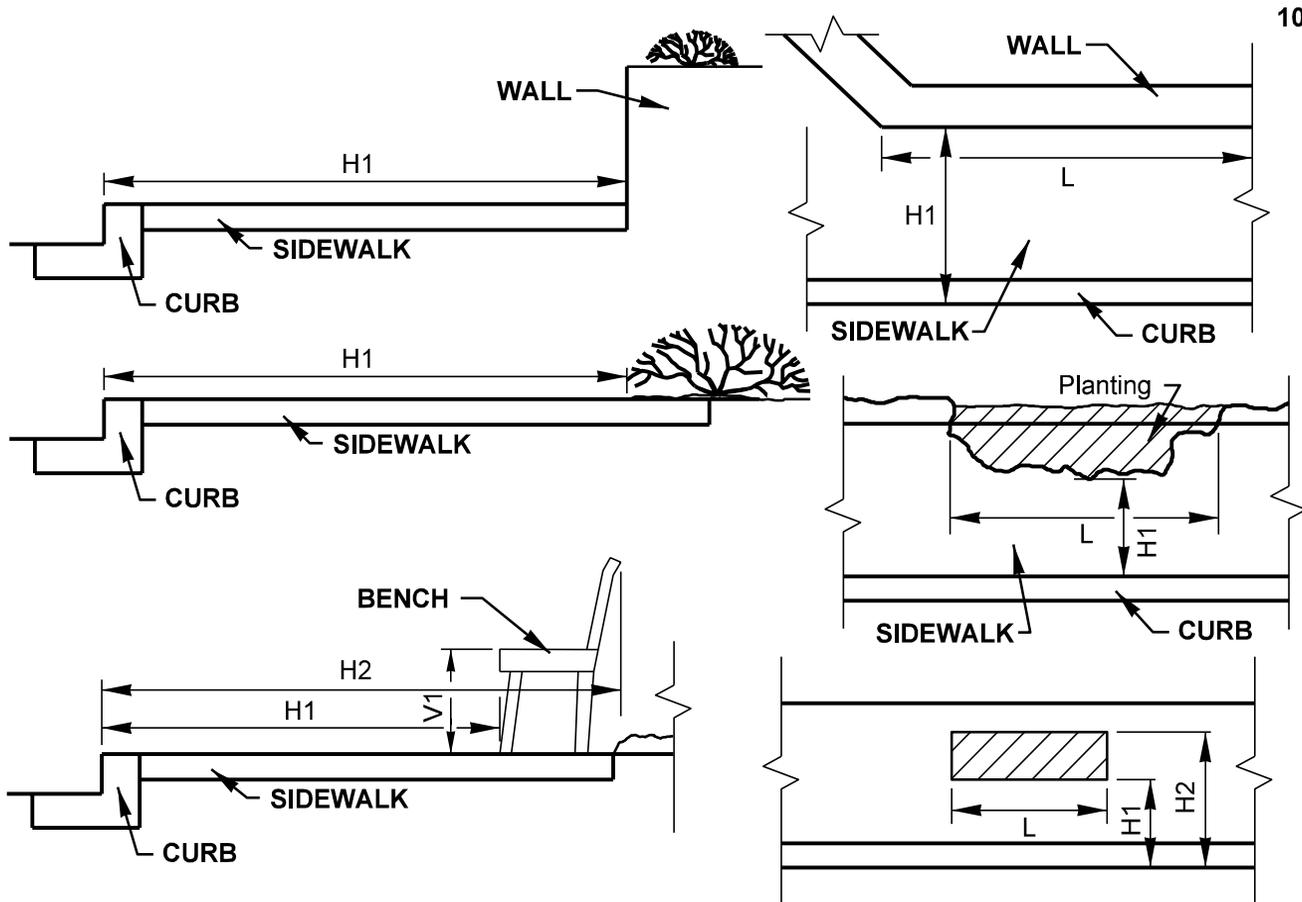
SWW- Sidewalk Width  
 BW- Buffer Width  
 CS- Cross Slope



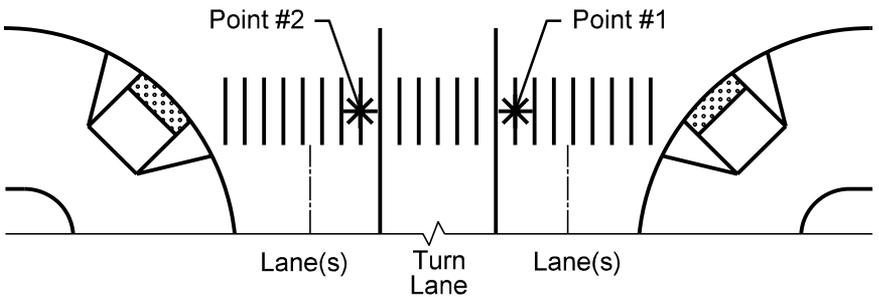
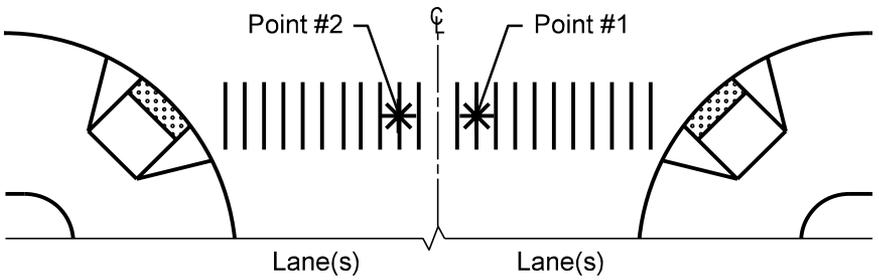
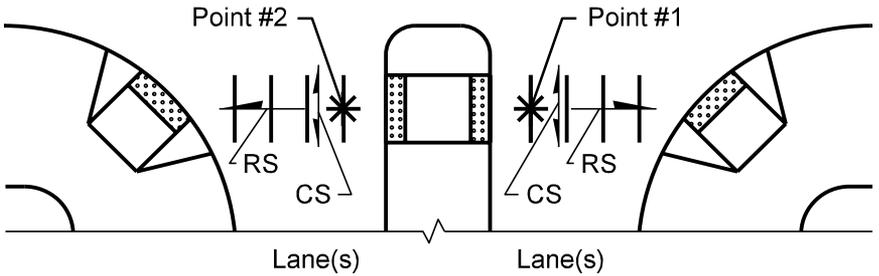
Notes:

- ① Horizontal measurement from face of curb.
- ② Vertical distance measured from surface of sidewalk.
- ③ Obstruction may be a temporarily placed object such as a sign board, parked car or garbage can.

**OBSTRUCTION**



# OBSTRUCTIONS

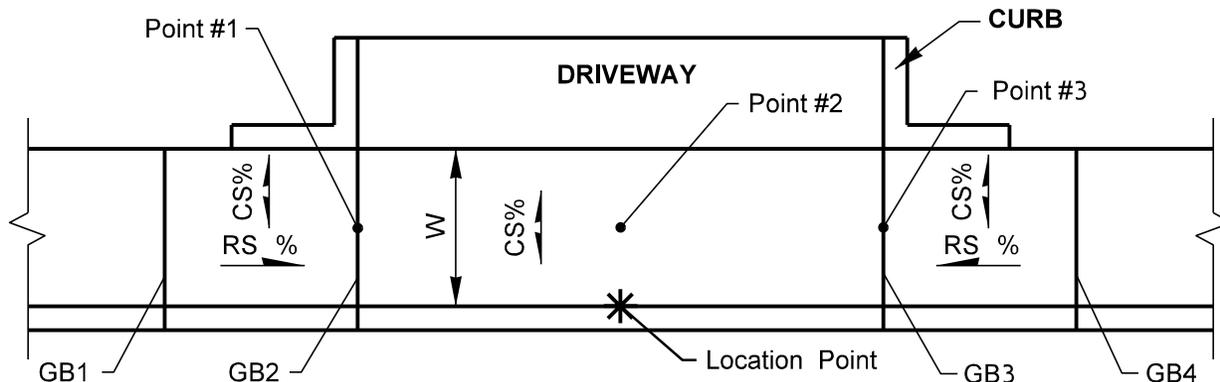


**Notes:**

- 1) Points 1 & 2 best taken in center of lane to avoid wheel ruts.
- 2) RS & CS taken at points #1 & #2.
- 3) Measurements taken in middle of crosswalk-marked or unmarked.

**\*** Location of RS & CS.  
No GPS at these locations.

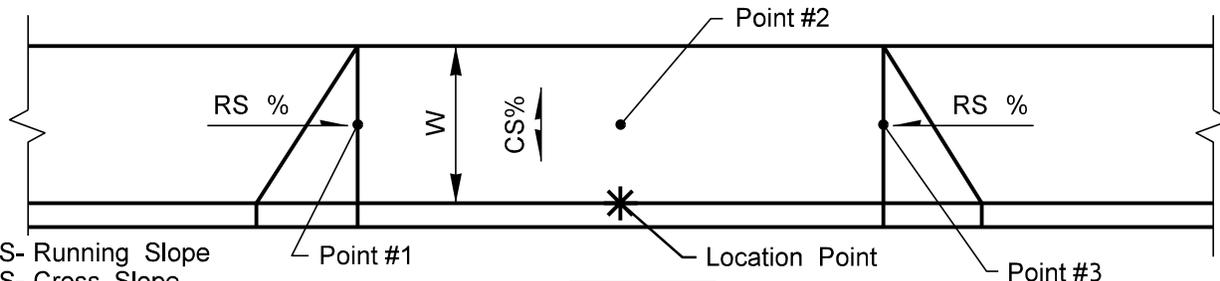
# CROSSWALK



### PARALLEL ACCESS

Notes:

- ① Measure CS & W for points #1, #2, & #3 of driveway.
- ② RS shall be taken as shown for points 1 & 3 of no PAR of flare area.
- ③ On No PAR, project points #1 & #3 from where flare intercepts driveway approach and 3' from back of sidewalk.



### NO PAR

RS- Running Slope

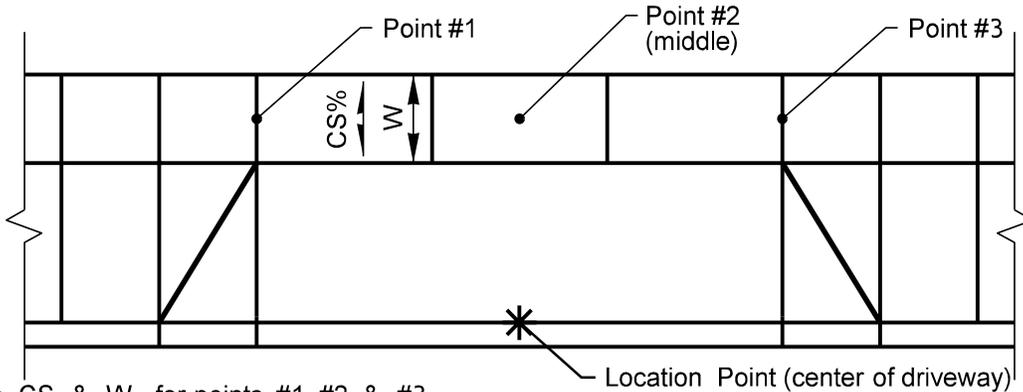
CS- Cross Slope

W- Width

PAR- Pedestrian Accessible Route

GB- Grade Break

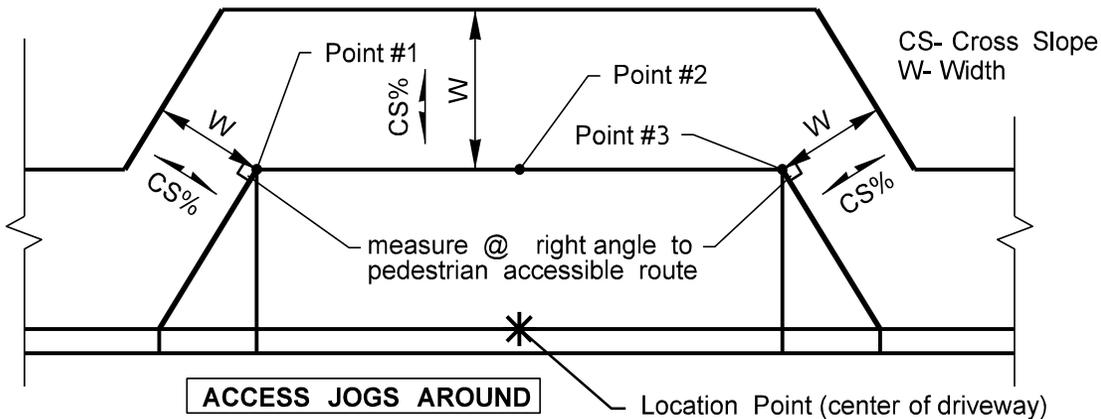
## DRIVEWAYS



Notes:

- 1) Measure CS & W for points #1, #2, & #3.
- 2) Project points 1 & 3 from where drive flare intercepts driveway approach.

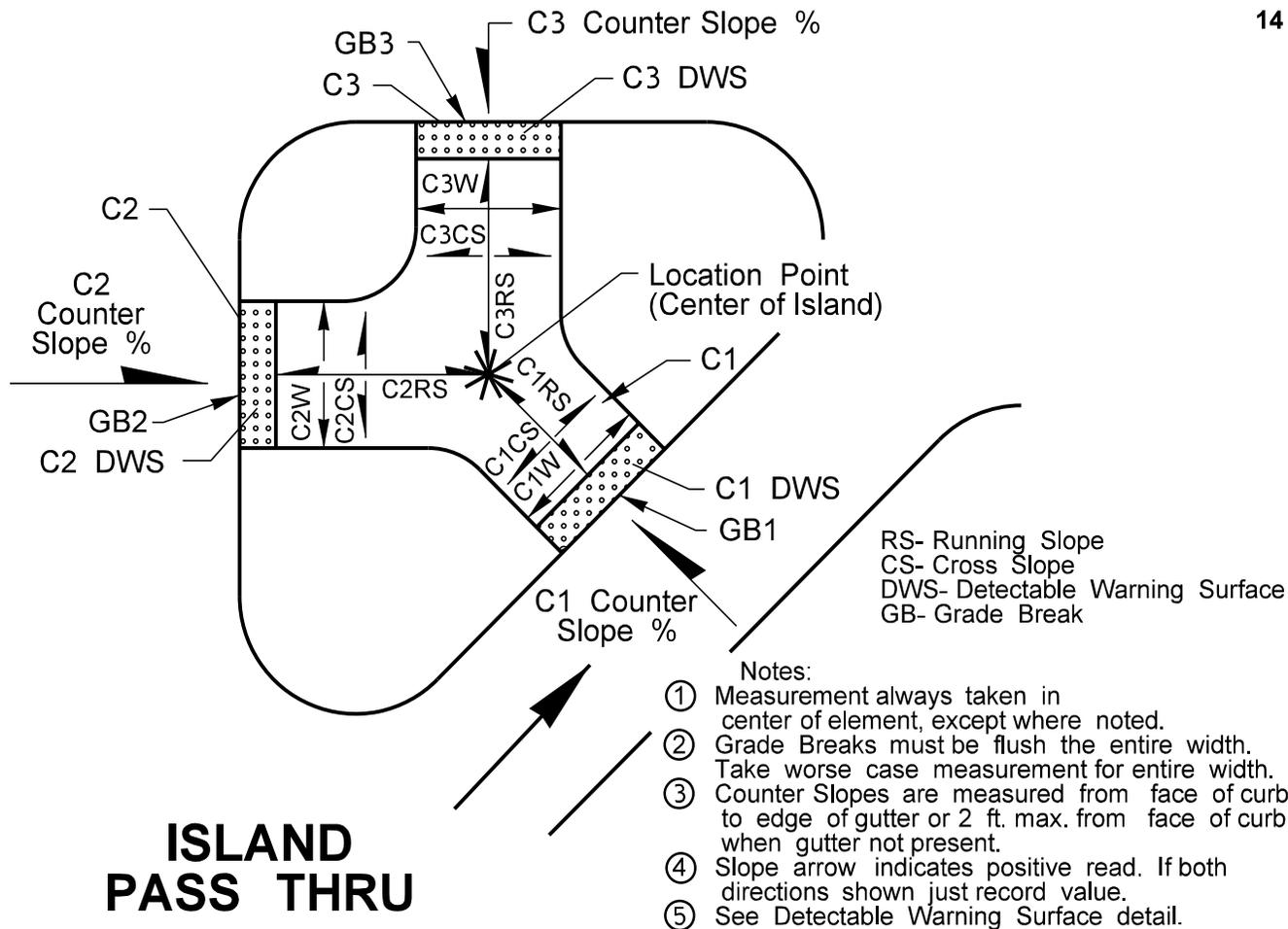
**ACCESS ACROSS**

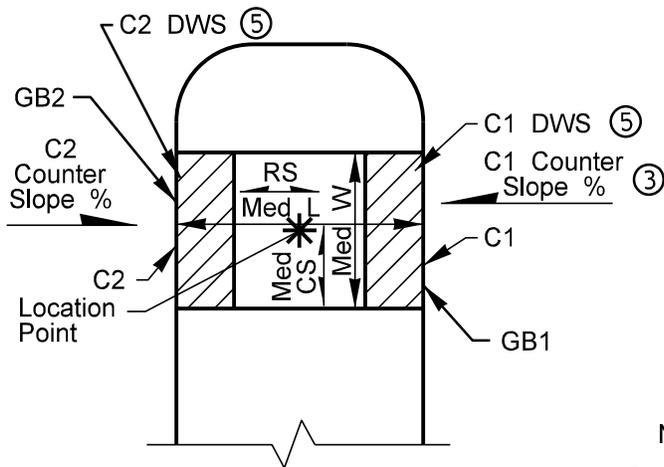


**ACCESS JOGS AROUND**

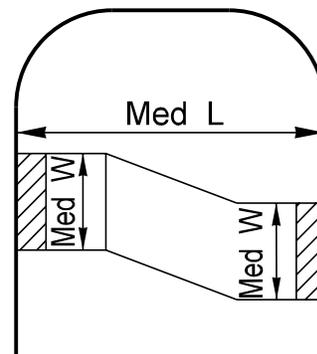
Location Point (center of driveway)

## DRIVEWAYS





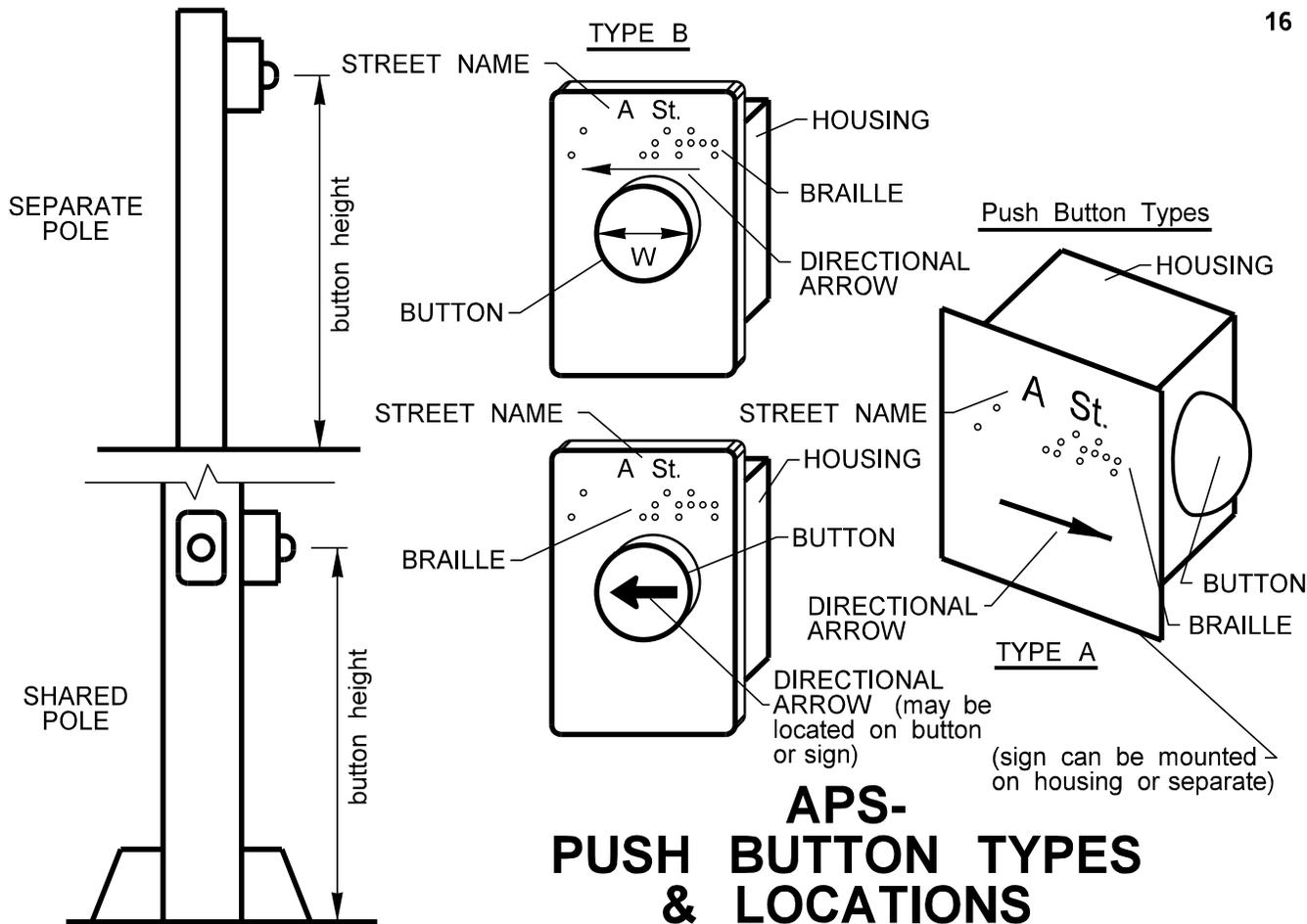
If median pass through  
jogs, the length is  
measured across median



#### Notes:

- ① Measurement always taken in center of element, except where noted.
- ② Grade Breaks must be flush the entire width. Take worse case measurement for entire width.
- ③ Counter Slopes are measured from face of curb to edge of gutter or 2 ft. max. from face of curb when gutter not present.
- ④ Slope arrow indicates positive read. If both directions shown just record value.
- ⑤ See Detectable Warning Surface detail.

## MEDIAN PASS THRU



**APS Push Button - Type A**



**APS Push Button - Type B**



**APS Push Button - Type C**



**APS Push Button - Type D**



**APS Push Button - Type E**

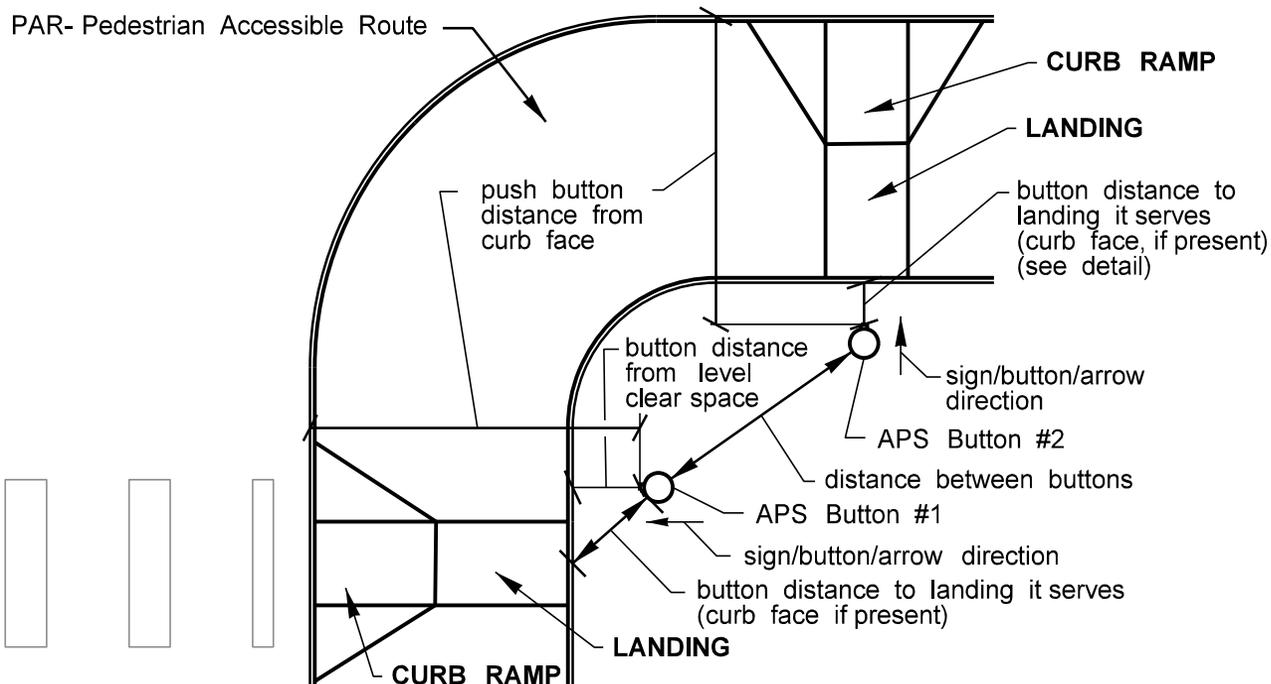


**APS Push Button - Type F**

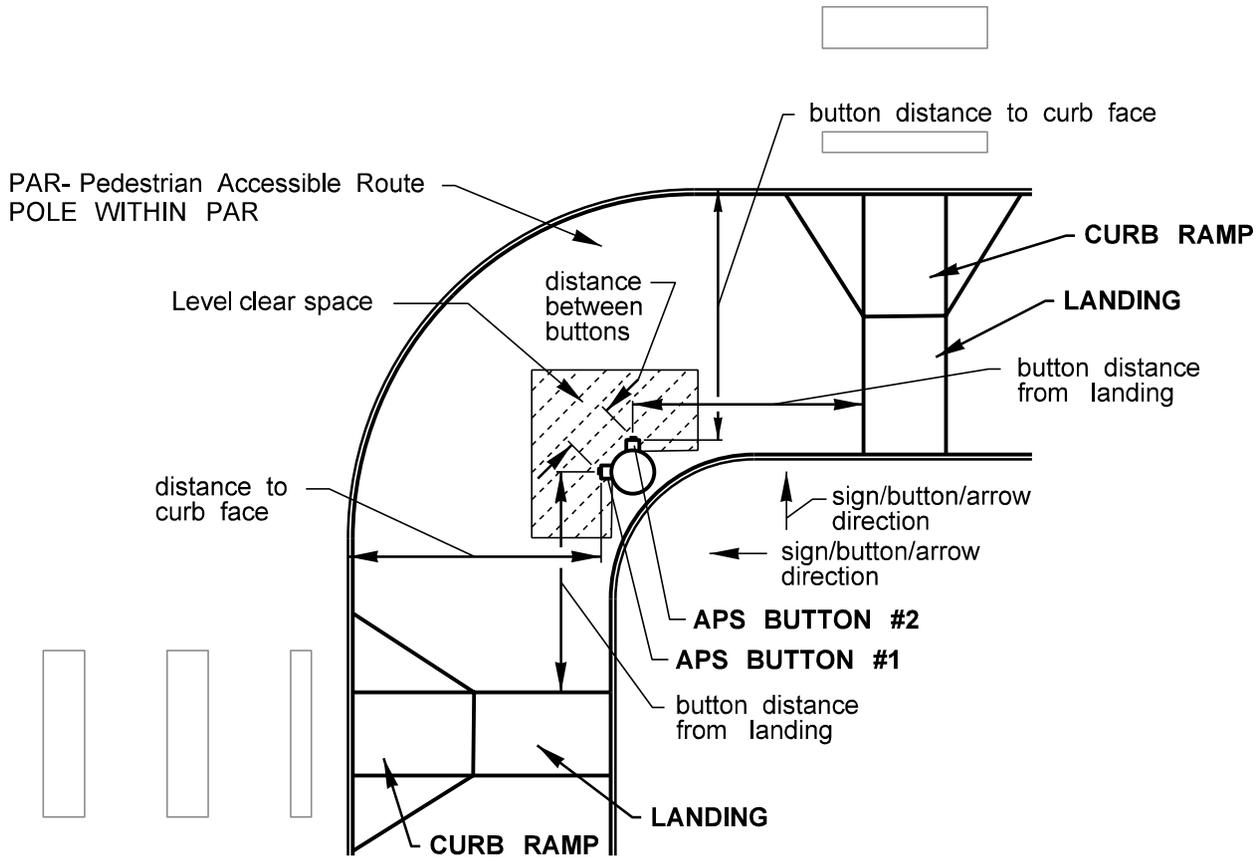


Notes:

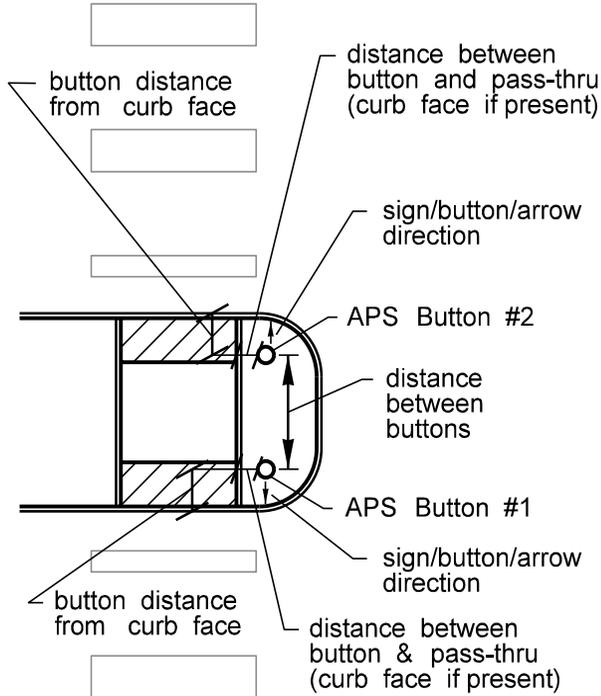
- ① Distances are measured from the button center.



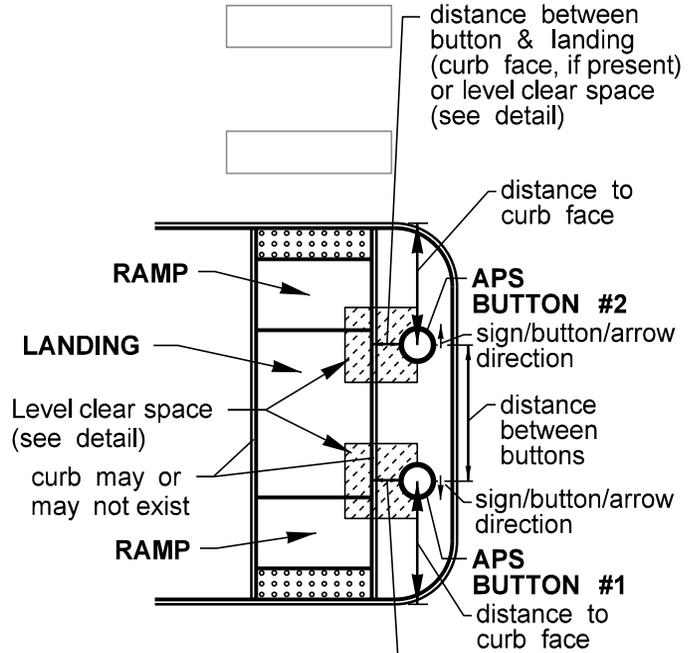
## APS- PUSH BUTTON LOCATION- SEPARATE POLE



# APS- PUSH BUTTON LOCATION- SHARED POLE



**MEDIAN**

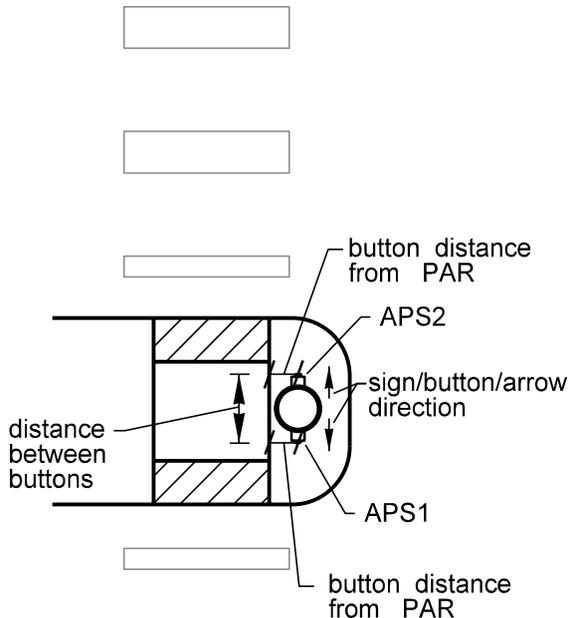


**MEDIAN**

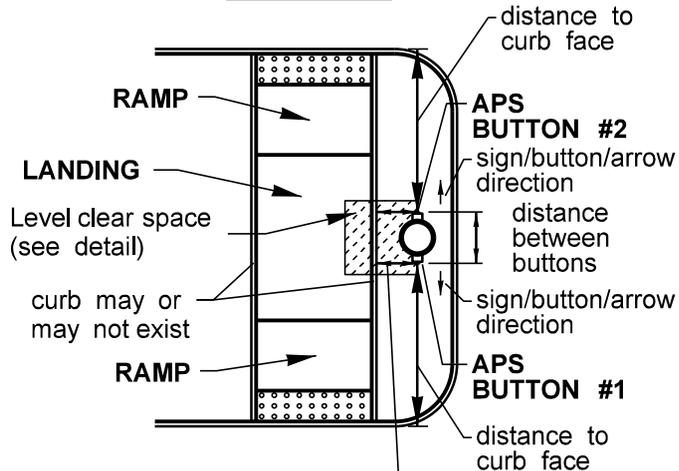
Notes:

- ① Distances are measured from the button center.

# APS- PUSH BUTTON LOCATION- SEPARATE POLE



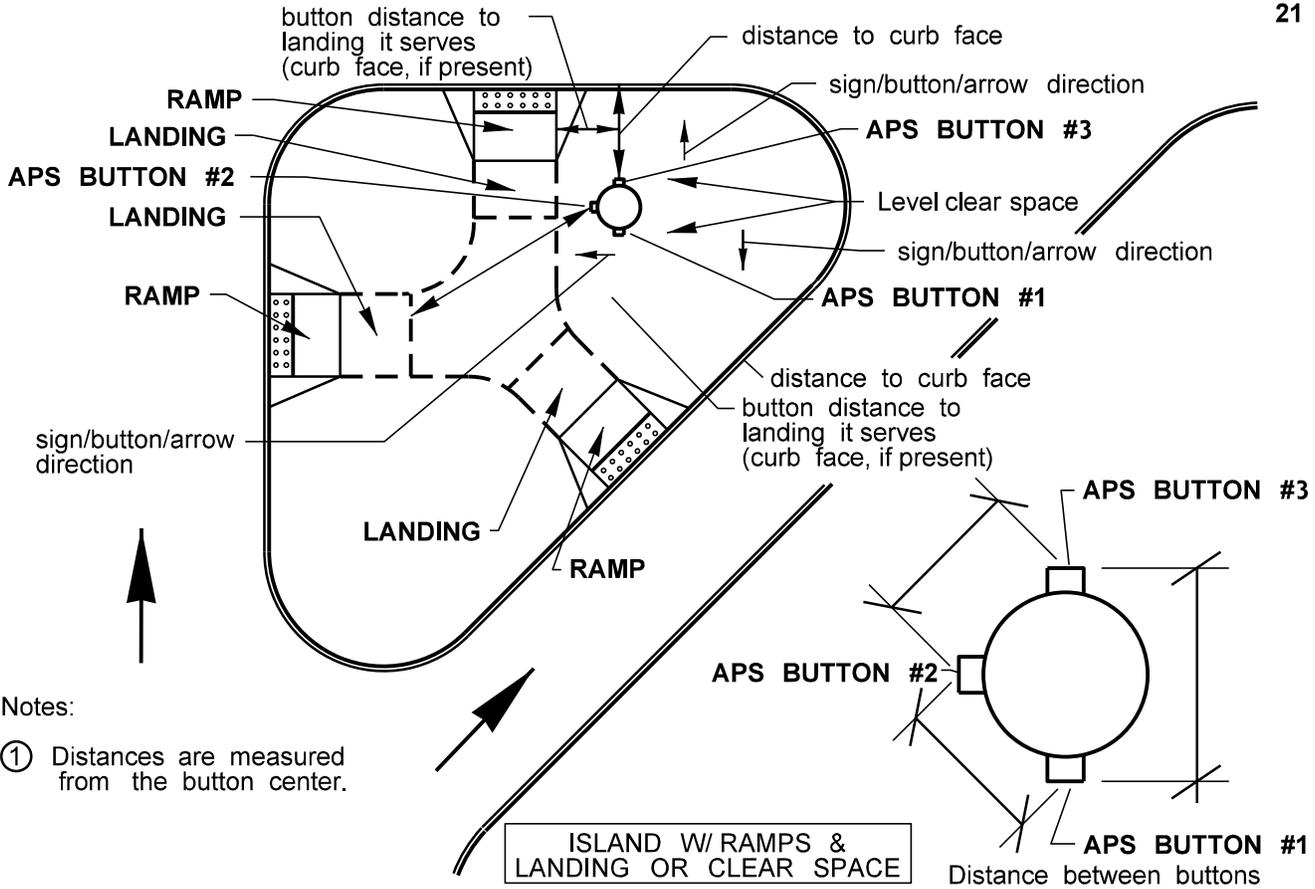
**MEDIAN**



**MEDIAN**

distance between button & landing (curb face, if present) or level clear space (see detail)

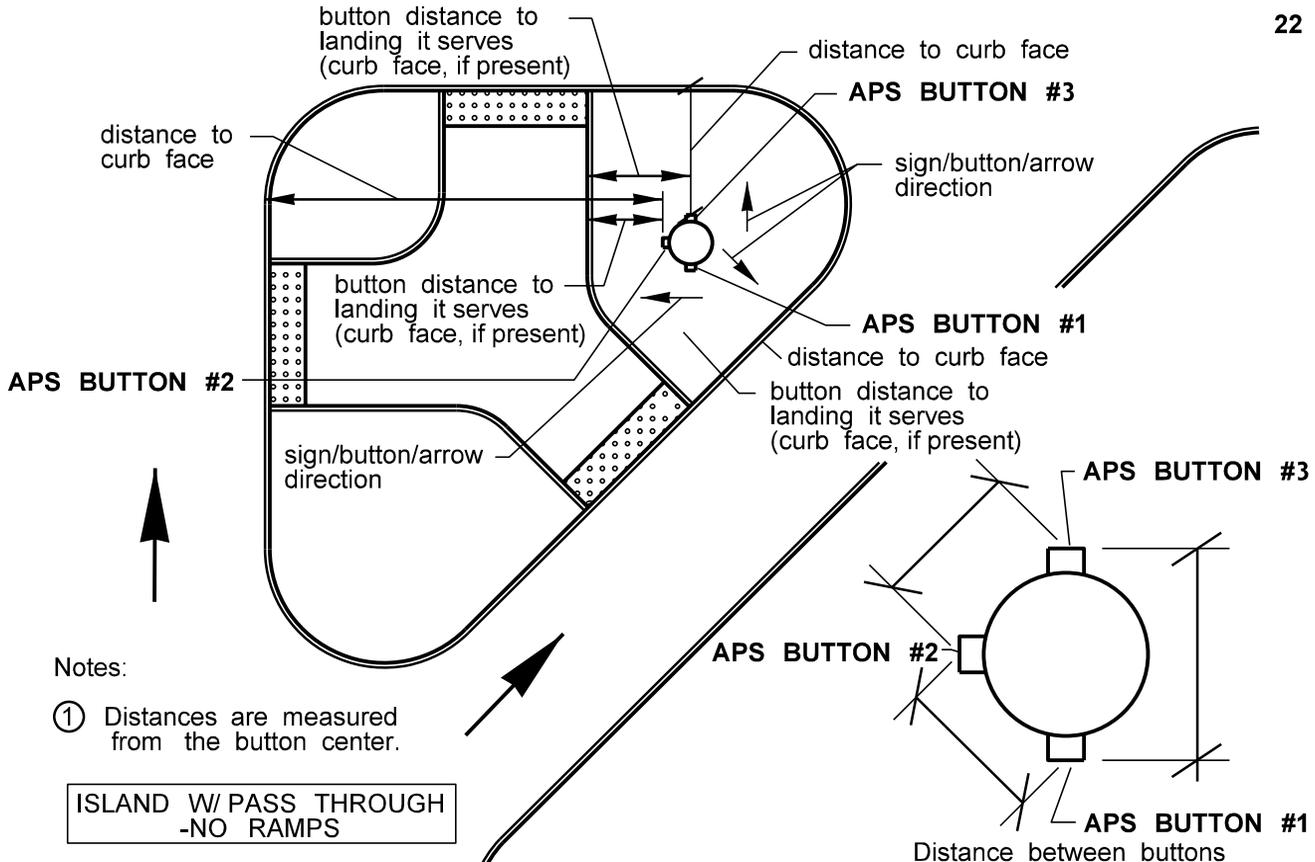
**APS- PUSH BUTTON LOCATION- SHARED POLES**



Notes:

- ① Distances are measured from the button center.

# APS- BUTTON- SHARED POLE

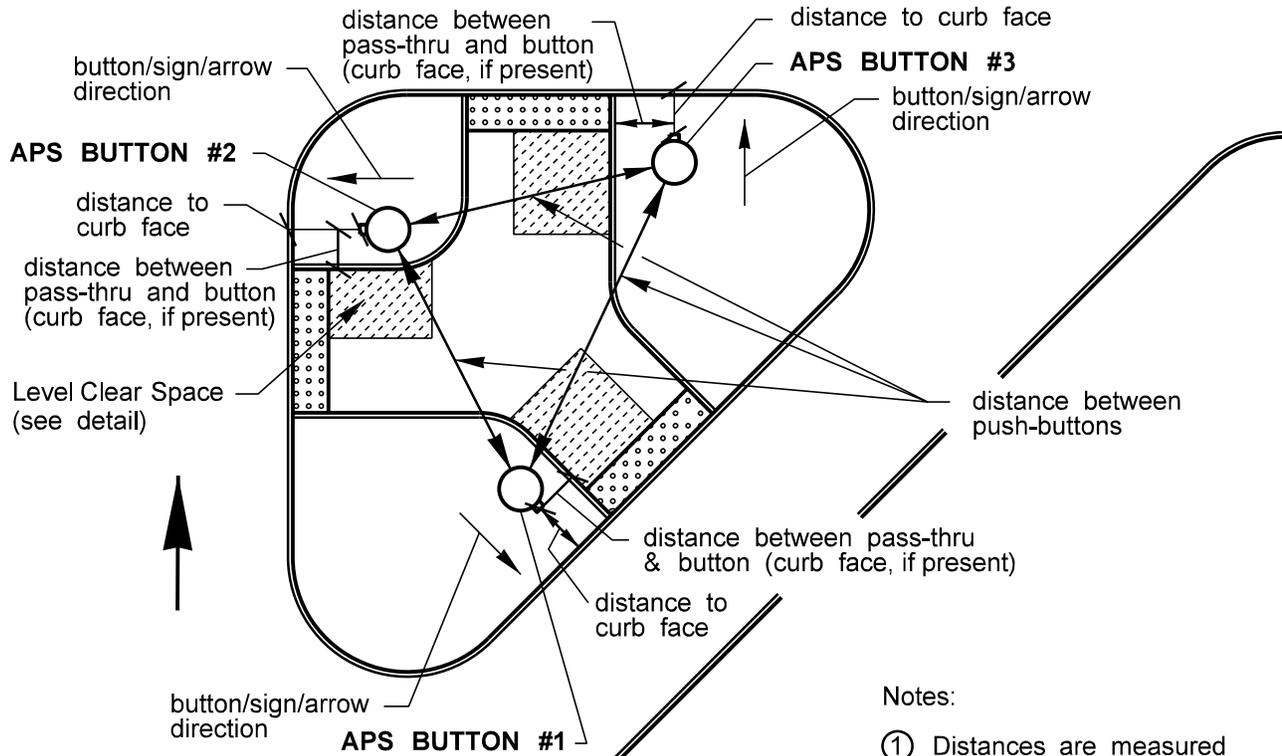


Notes:

- ① Distances are measured from the button center.

ISLAND W/ PASS THROUGH  
-NO RAMPS

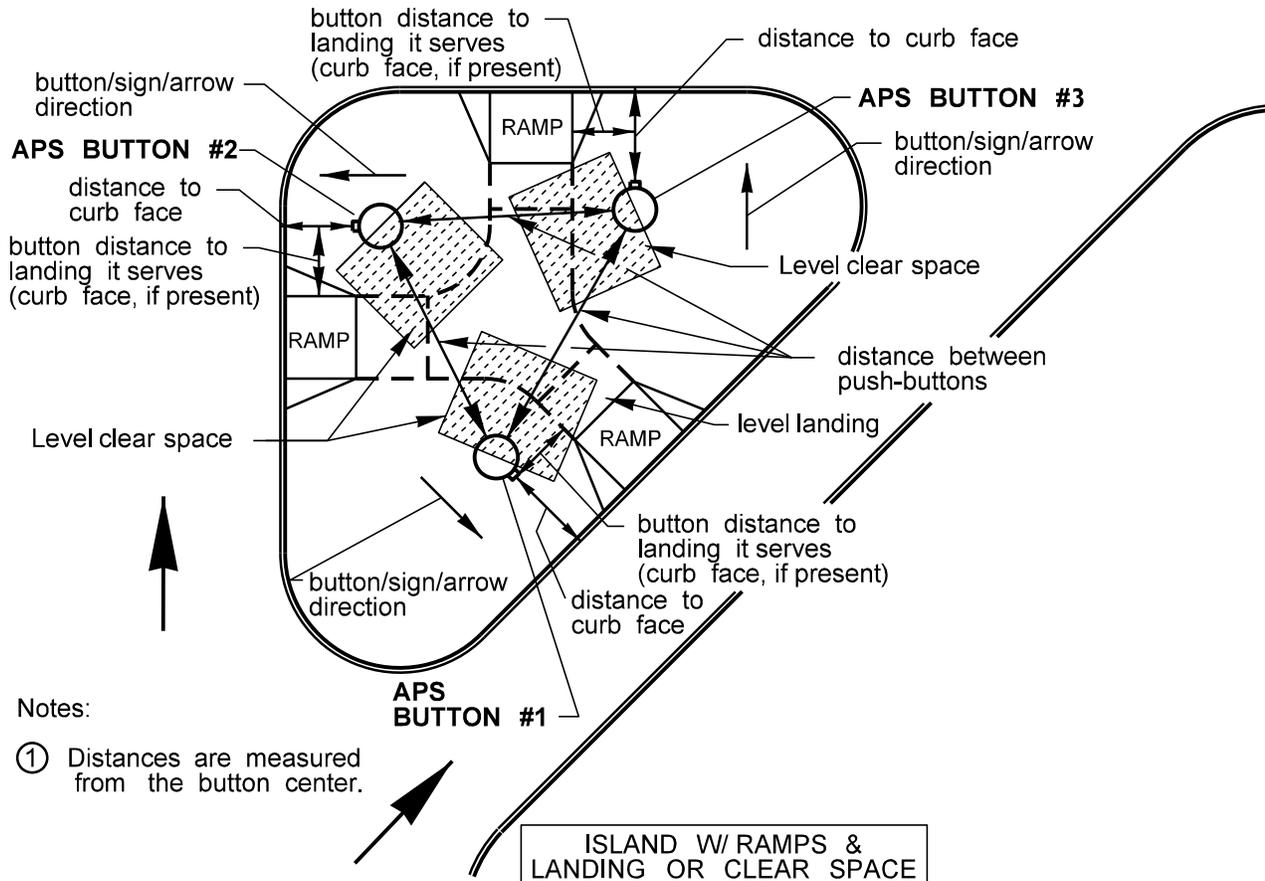
# APS- BUTTON - SHARED POLE



Notes:  
① Distances are measured from the button center.

ISLAND W/ PASS THROUGH  
-NO RAMPS

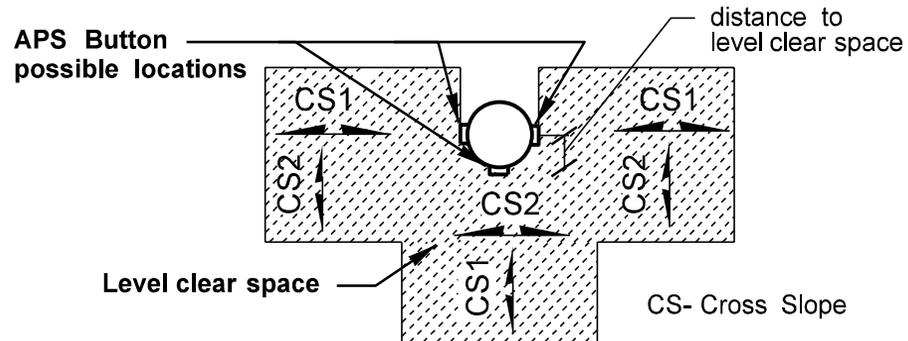
# APS- BUTTON - SEPARATE POLES

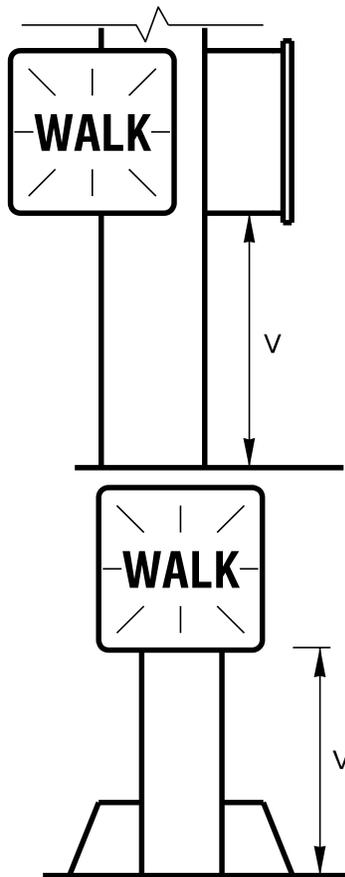


## APS- BUTTON- SEPARATE POLES

APS Clear Space

- ① If button is more than 24 inches from the landing edge, measure 2-1/2 ft. x 4 ft. max. level clear space
- ② Cross slope of the clear space shall be taken 2 feet from button in each direction
- ③ Slope arrow indicates positive read. If both directions are shown just record value.





SHARED  
POLE

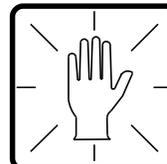
SEPARATE  
POLE



WORD



WORD



SYMBOL

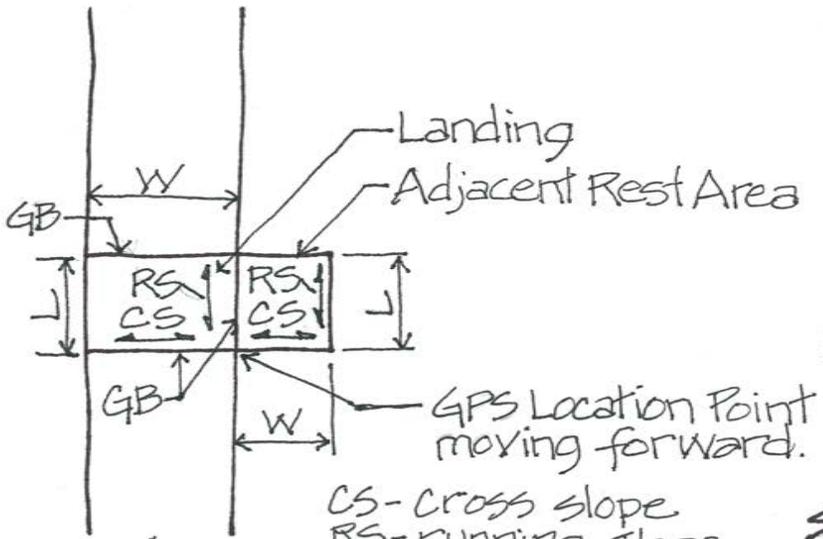


SYMBOL



COUNT-DOWN

# APS- SIGNAL TYPE & LOCATION

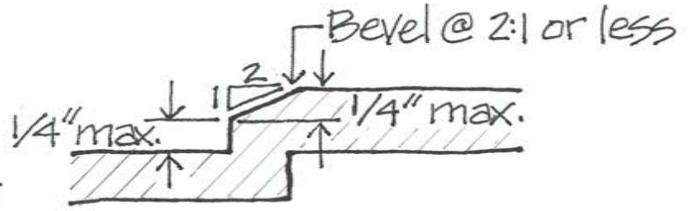


↑ Path

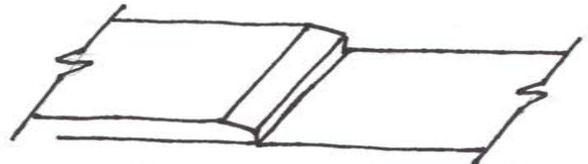
CS - Cross slope  
 RS - running slope  
 W - width  
 L - length  
 GB - grade break

# ADJACENT REST AREA

for Shared Use Paths.



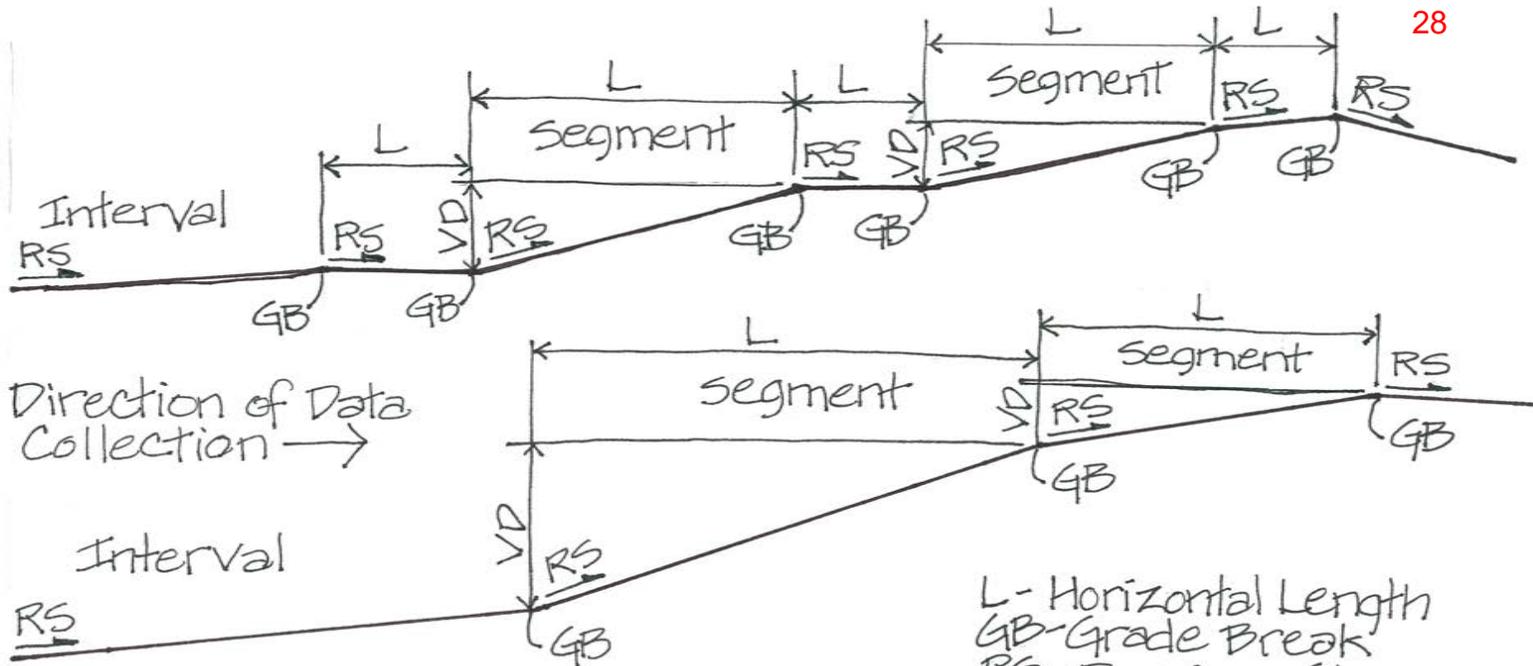
† V measured at worse case above 1/4".



† Bevel can be built out from or ground off slab.

# SURFACE DISCONTINUITY

for all Pedestrian Accessible Routes

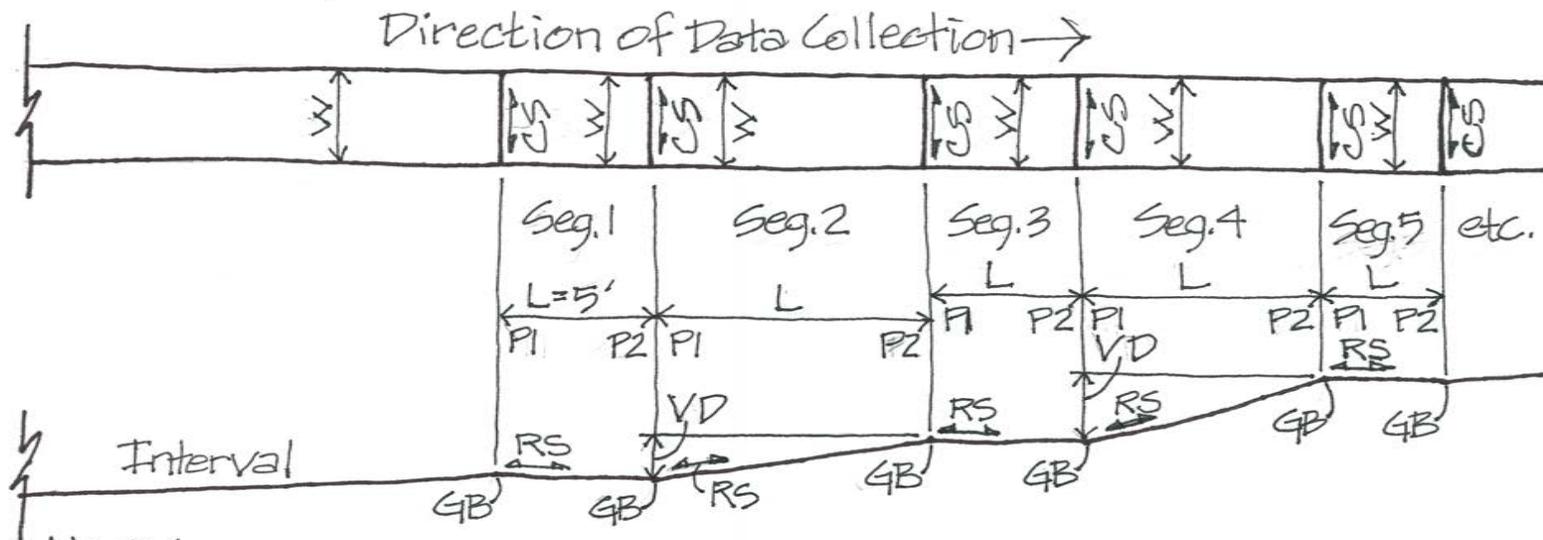


## NOTES:

- ♦ If path  $RS \leq 5\%$ , measure at 50 foot intervals.
- ♦ If path  $RS > 5\%$ , measure as segments  $\leq 25$  feet.
- ♦  $VD$  is measured only when segment  $RS > 5\%$
- ♦ Horizontal length is measured level between  $GB$  line.
- ♦ Measure  $RS$  just past  $GB$  and in direction of data collection.

# SHARED USE PATH

Bike / Pedestrian Paths.



### NOTES:

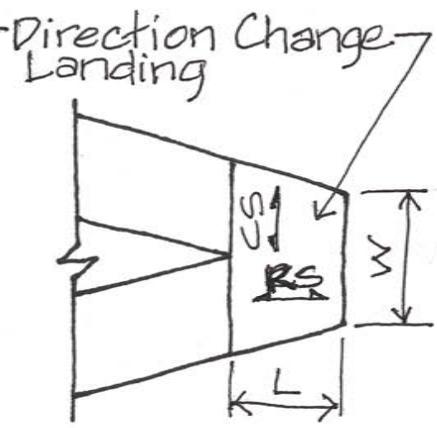
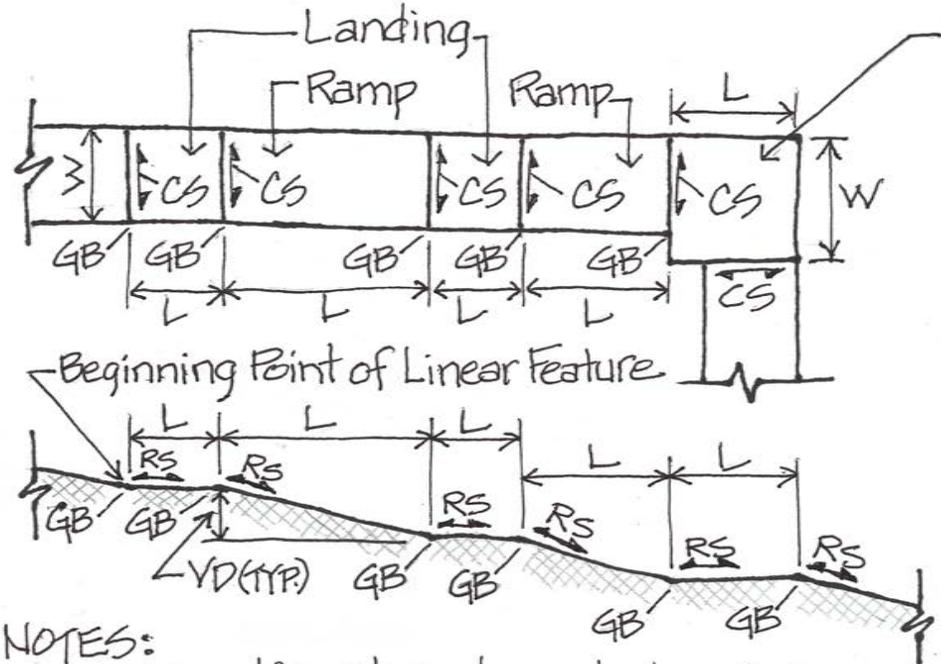
- ♦ Intervals do not exceed 5% RS. Measure every 50 feet.
- ♦ Segment is where  $RS > 5\%$
- ♦ At first GB, go back 5' to begin first segment to capture if landing is present
- ♦ Segment landing  $\leq 2.0\%$
- ♦ Measure CS & RS just beyond GB.
- ♦ Measure VD for segment where  $RS > 5\%$
- ♦ Measure RS in direction of data collection.

W - width  
 L - horizontal length  
 CS - cross slope  
 RS - running slope  
 GB - grade break  
 VD - vertical distance  
 P1 - beginning point of segment  
 P2 - ending point of segment

## INDEPENDANT WALKWAY

within sites or where a sidewalk separates to independent horizontal & vertical alignment.

Direction of Travel →



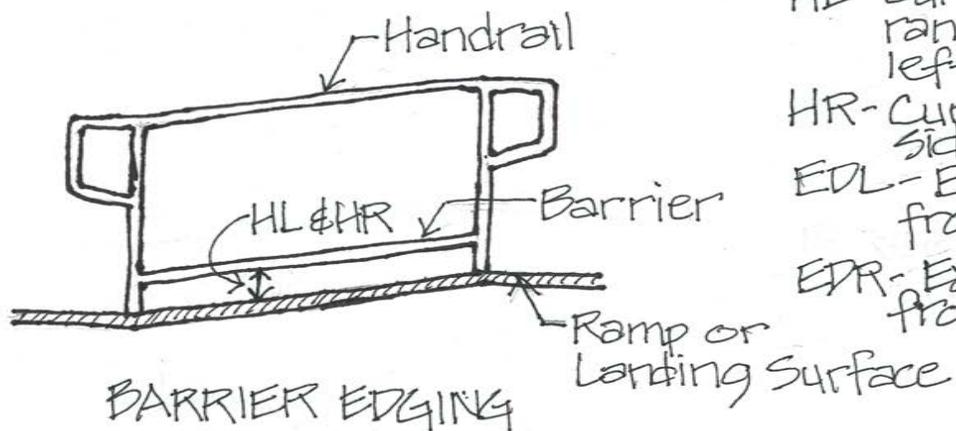
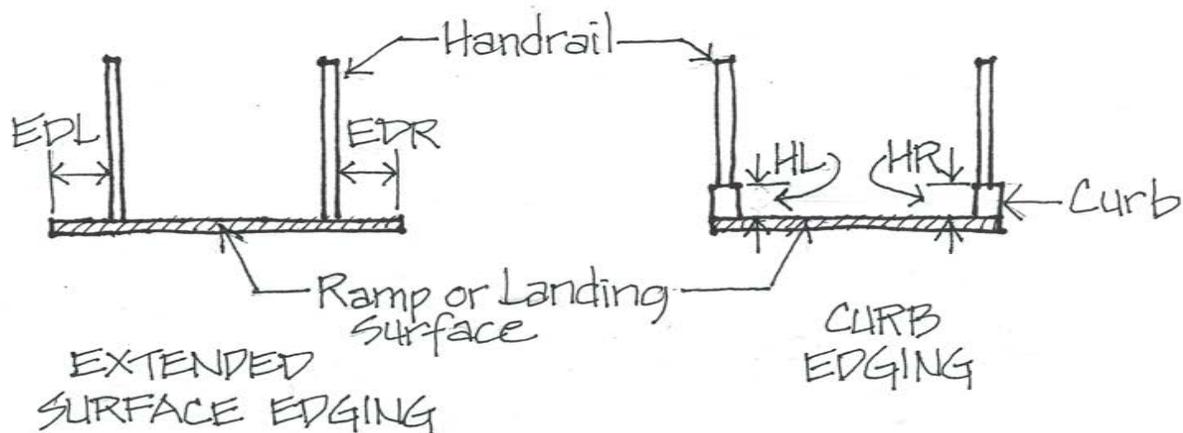
- CS - Cross Slope
- RS - Running Slope
- L - Horizontal Length
- W - Width
- GB - Grade Break
- VD - Vertical Distance

NOTES:

- ◆ GPS Location at each grade break in middle of sidewalk.
- ◆ Measurements of CS & RS to be taken just beyond the GB.
- ◆ VD measured for all ramp runs.
- ◆ Ramp is > 5% RS.
- ◆ GB must be flush the entire width. If not, take greatest vertical measurement along GB line.
- ◆ Measure RS in direction of data collection.

# SITE/FACILITY\* RAMP

\*sites such as Rest Areas, Park & Rides.  
Also access to ped over/under crossings.



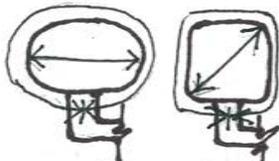
HL - Curb or Barrier height from ramp or landing surface, left side.

HR - Curb or Barrier height, right side.

EDL - Extended surface distance from handrail, left side.

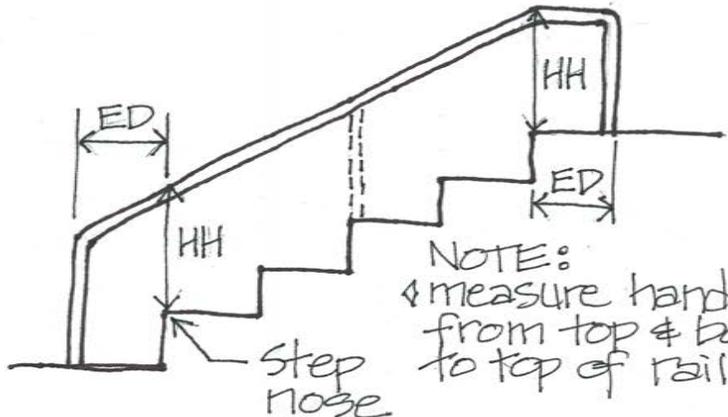
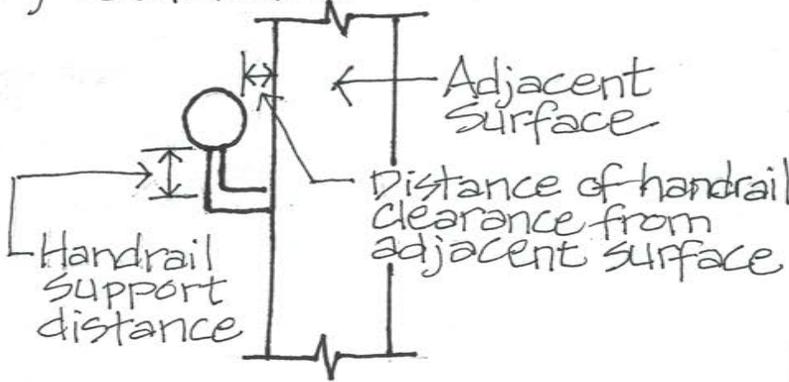
EDR - Extended surface distance from handrail, right side.

# EDGE PROTECTION



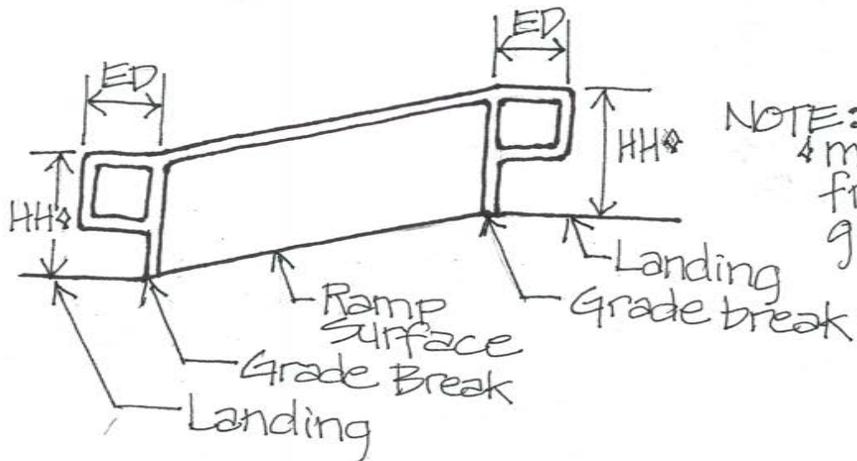
NOTE:  
 ◊ Circular - measure diameter  
 ◊ non-Circular - measure perimeter and longest dimension.

Circular Non-Circular  
 HANDRAIL STYLE



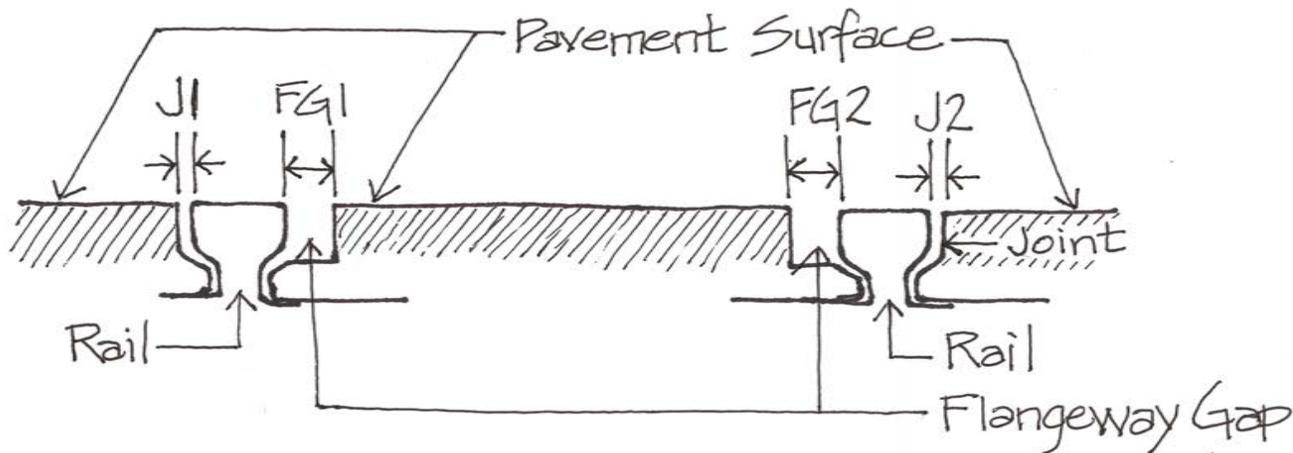
NOTE:  
 ◊ measure handrail height from top & bottom step nose to top of rail.

HH - Handrail Height  
 ED - Extension Distance



NOTE:  
 ◊ measure handrail height from top & bottom ramp grade break to top of rail

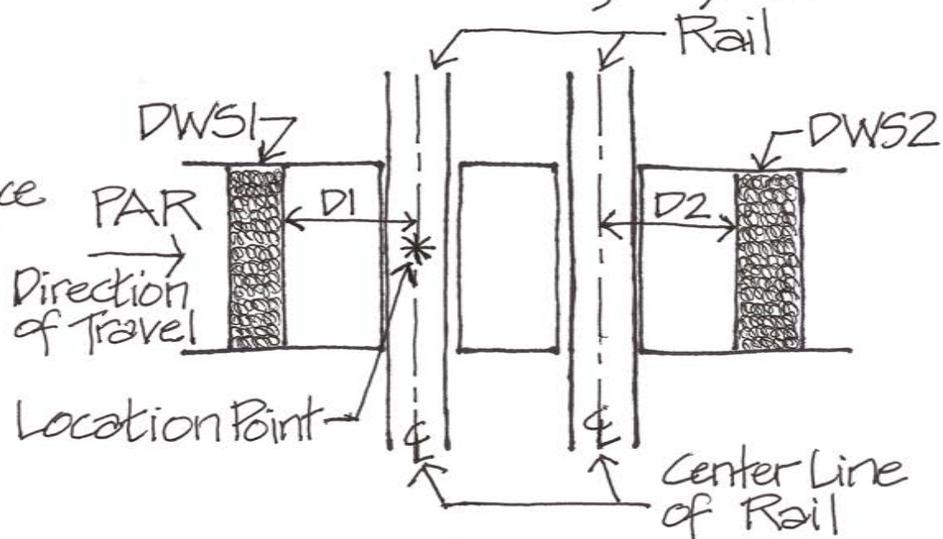
# HANDRAILS



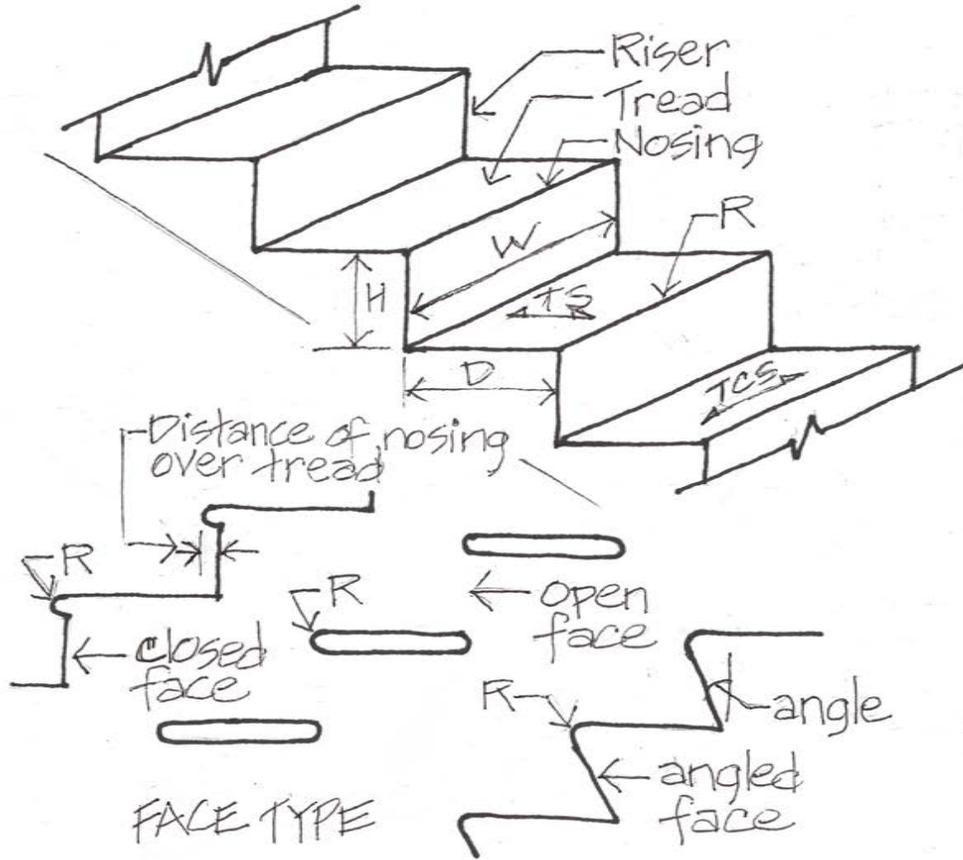
J - Joint  
 FG - Flangeway Gap  
 DWS - Detectable  
 Warning Surface

PAR - Pedestrian  
 Accessible  
 Route

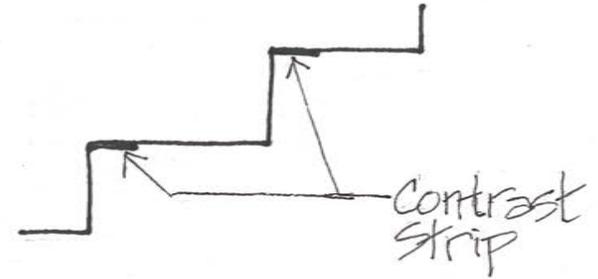
D - Distance between  
 DWS and Center  
 of Rail



RAIL ROAD CROSSING



H - Riser Height  
 D - Tread Depth  
 W - Tread Width  
 R - Nose Radius  
 TS - Tread Slope  
 TCS - Tread Cross Slope

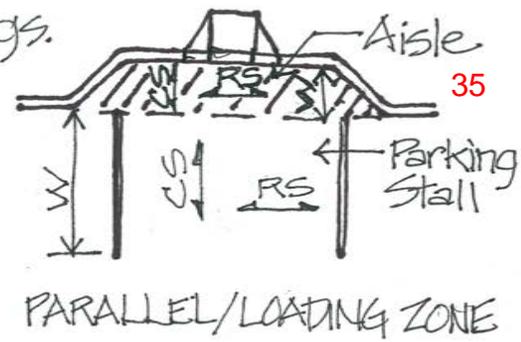
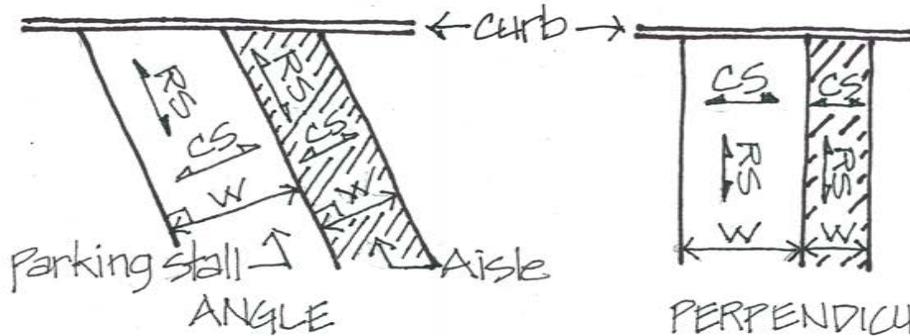


### NOTES:

- ♦ Take measurements at top and bottom steps.
- ♦ If more than 10 steps, take measurements of an additional step in the middle.

# STAIRS

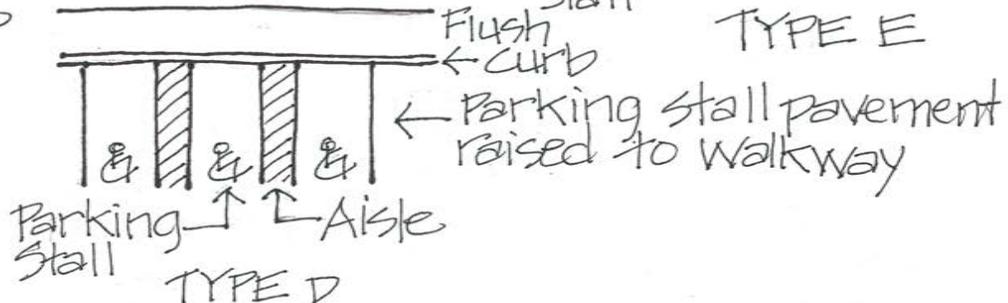
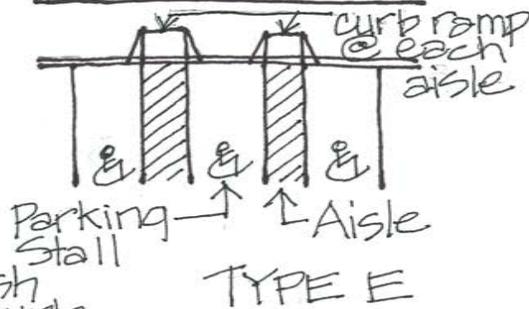
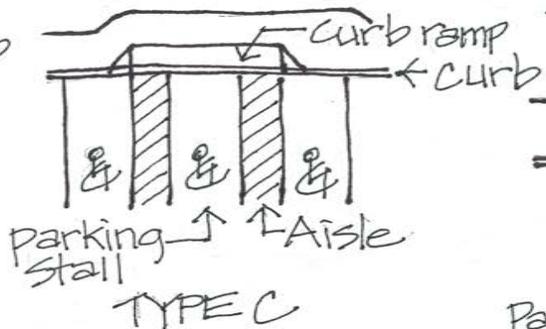
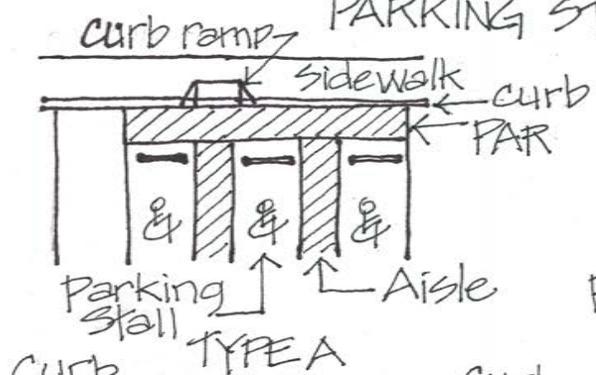
NOTE: ♦ measure W from center of pavement markings.



35

W - Width  
 CS - Cross slope  
 RS - Running slope  
 PAR - Pedestrian accessible route

PARKING STALL TYPES



TYPES OF AISLE CONNECTION TO PAR

PARKING STALLS