



Florida Department of Transportation

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STEPHANIE C. KOPELOUSOS
SECRETARY

May

21, 2008

This Memo Has Expired

DCE MEMORANDUM NO. 16-08
(FHWA Approved: 5/21/08)

TO: DISTRICT CONSTRUCTION ENGINEERS

FROM: *for* Brian Blanchard, Director, Office of Construction

COPIES: David Sadler, Andy Keel, Dean Perkins, MaryAnne Koos, Jim Mills,
Leslie McCarthy (FHWA), Bob Burleson (FTBA)

SUBJECT: PLACEMENT OF DETECTABLE WARNINGS

This memo is issued to provide new direction for the placement of detectable warnings on curb ramps, landings and flush transitions. This is consistent with recent guidance provided by the United States Access Board and Federal Highway Administration.

Detectable warnings replace the edge cue provided by a curb for persons with vision impairments. This is why detectable warnings are placed along the back-of-curb. Sometimes, on radius returns, the detectable warnings will be partially on the landing and extend onto the curb ramp. On these radius returns, the detectable warnings may be placed perpendicular across the bottom of the curb ramp, **but only if the bottom of the curb ramp is no more than 5 feet** from the back-of-curb. If any part of the bottom of the curb ramp is greater than 5 feet from the back-of-curb, the detectable warnings must be placed along the back-of-curb.

Detectable warnings do not provide directional information; however, the orientation of detectable warnings may impact the tracking of wheelchairs on curb ramps where slopes are greater than 5%. Detectable warnings shall be oriented as follows:

- When placed on curb ramps, landings and flush transitions perpendicular to the curb line: Rows of domes shall be aligned with the centerline of the ramp. See Pictorial View A on the attached Interim Design Standard Index 304, Sheet 6 of 6, dated **04/30/08**.

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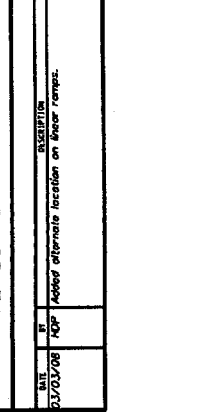
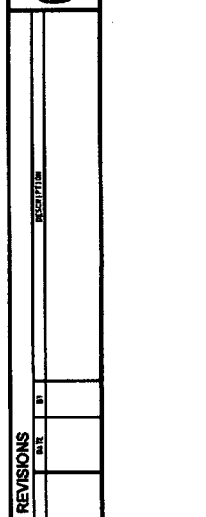
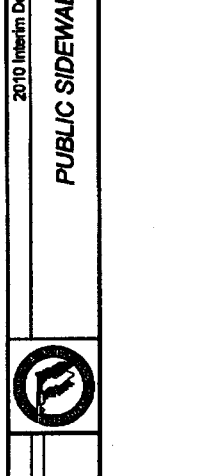
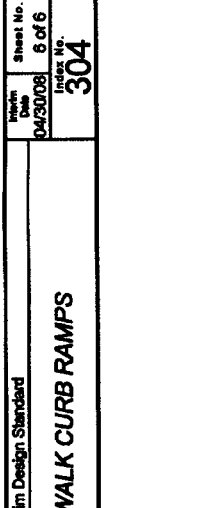
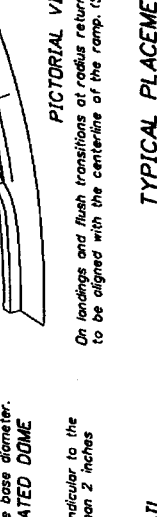
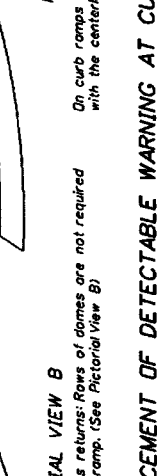
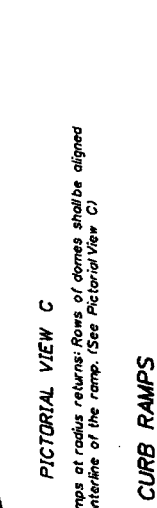
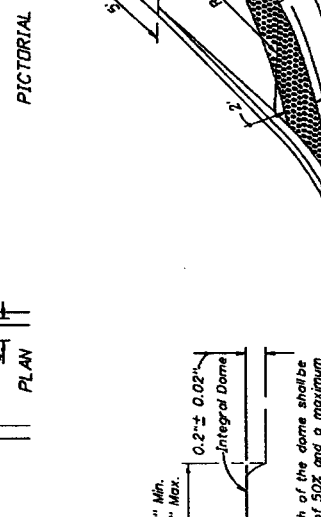
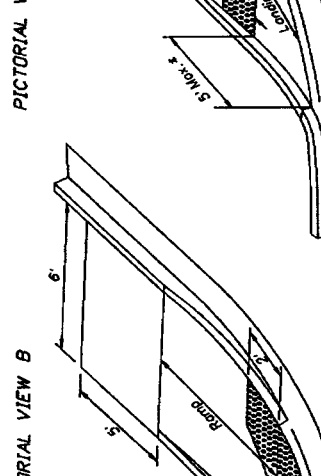
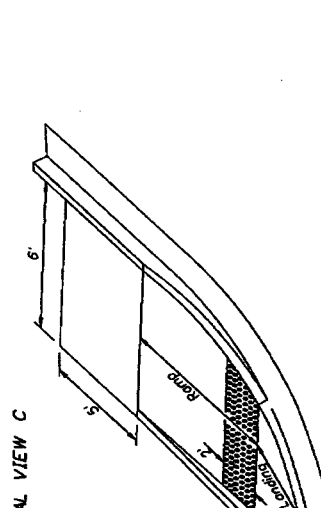
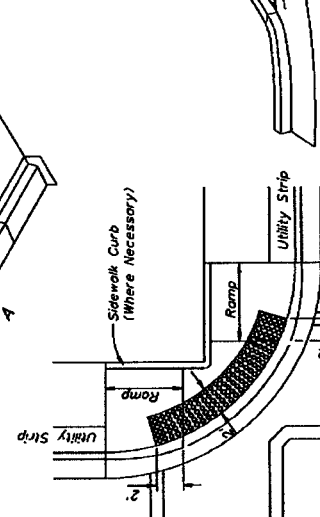
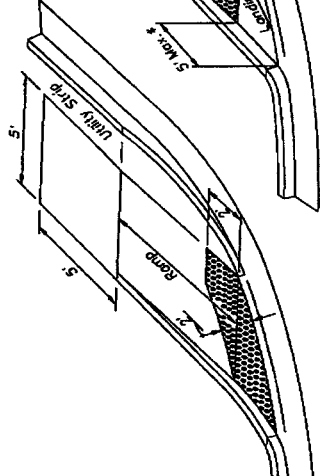
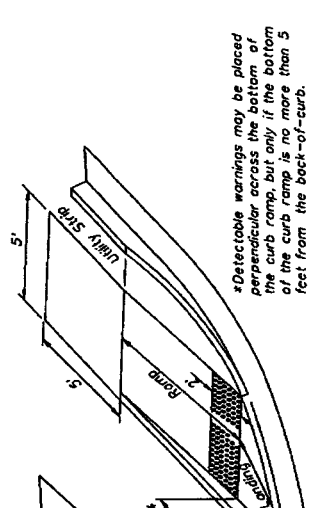
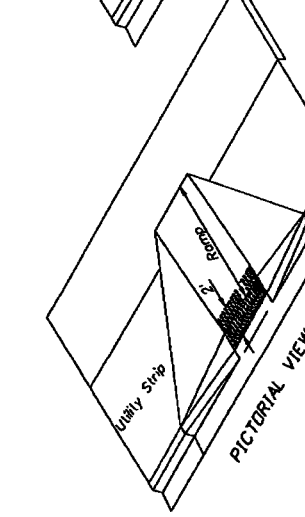
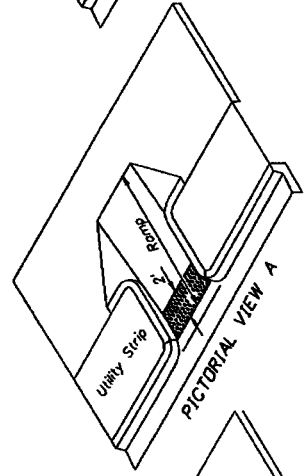
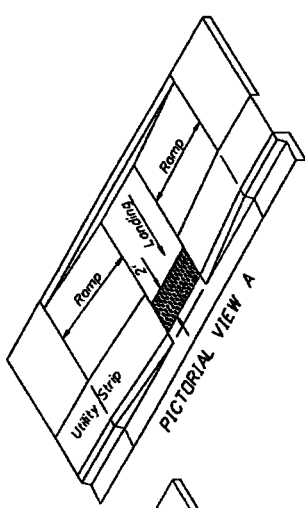
- When placed on landings and flush transitions at radius returns: Rows of domes are **not** required to be aligned with the centerline of the ramp. See Pictorial View B on the attached Interim Design Standard Index 304, Sheet 6 of 6, dated **04/30/08**.
- When placed on curb ramps at radius returns: Rows of domes shall be aligned with the centerline of the ramp. See Pictorial View C on the attached Interim Design Standard Index 304, Sheet 6 of 6, dated **04/30/08**.

Interim Index 304, Sheet 6 of 6, dated **04/30/08**, will not be referenced in contracts until the January 2009 letting. **For all projects let prior to January 2009, this memorandum serves as a blanket approval to process a \$0.00 contract change to allow the use of this Interim Index. A copy of this memorandum should be attached to the Work Order or Supplemental Agreement.**

If you have any questions, please contact Stefanie Maxwell at (850) 414-4314.

BB/mw

Attachment



On curb ramps, landings and flush transitions perpendicular to the curb line. Rows of domes shall align with the centerline of the ramp. (See Pictorial View A)

1.6" Min. to 2.4" Max.

0.2" Min. to 0.02" Max.

Truncated Dome

Integral Dome

The top width of the dome shall be a minimum of 50% and a maximum of 65% of the base diameter.

TRUNCATED DOME

Base-to-base spacing shall be 0.65" minimum between domes.

PLAN VIEW

Detectable warnings shall extend 24 inches deep, perpendicular to the back-of-curb. Detectable warnings shall be no more than 2 inches from the back-of-curb/expansion joint.

On landings and flush transitions of radius returns: Rows of domes are not required to be aligned with the centerline of the ramp. (See Pictorial View B)

PICTORIAL VIEW B

On curb ramps at radius returns: Rows of domes shall be aligned with the centerline of the ramp. (See Pictorial View C)

PICTORIAL VIEW C

Detectable warnings may be placed perpendicular across the bottom of the curb ramp, but only if the bottom of the curb ramp is no more than 5 feet from the back-of-curb.

On curb ramps at radius returns: Rows of domes shall be aligned with the centerline of the ramp. (See Pictorial View C)

PICTORIAL VIEW C

DETECTABLE WARNING DETAIL

TYPICAL PLACEMENT OF DETECTABLE WARNING AT CURB RAMP

PUBLIC SIDEWALK CURB RAMP

2010 Interim Design Standard

Sheet No. 6 of 6

Date 04/30/08

Issue No. 304

REVISIONS

DATE BY DESCRIPTION

01/03/08 KOP Added alternate location on linear ramps.

