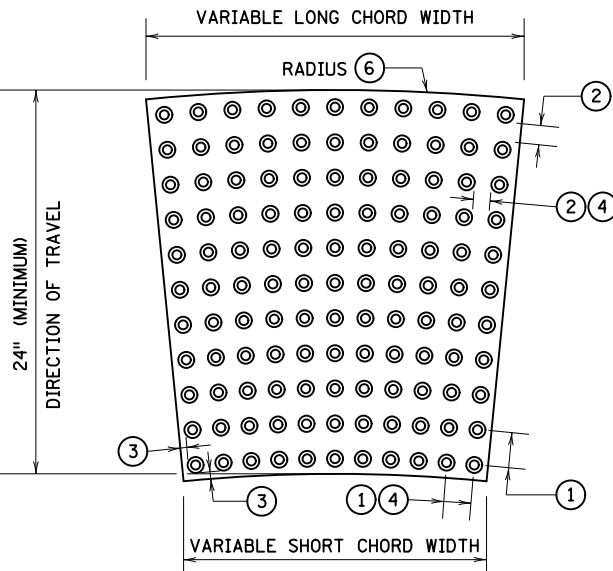
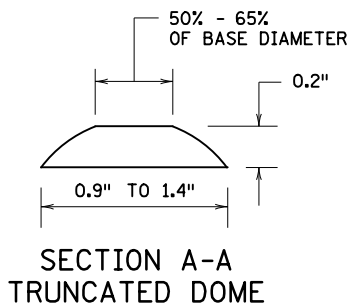


RECTANGULAR PLATES



RADIAL PLATES



TYPICAL RADIAL TRUNCATED DOME PLATES			
RADIUS (FEET) (7)	LONG CHORD WIDTH (INCHES)	SQUARE FEET PER PLATE	PLATES REQUIRED FOR 90 DEGREE TURN
10	23 1/2	3.53	8
15	18 13/16	2.93	15
15	23 1/2	3.67	12
20	18 13/16	3.00	20
20	18 7/8	2.98	20
25	20 1/2	3.28	23
25	23 9/16	3.77	20
30	22 5/8	3.65	25
35	22	3.56	30

NOTES:

DETECTABLE WARNING SURFACES SHALL FOLLOW THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).
 DETECTABLE WARNINGS CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE OR RADIAL GRID PATTERN.
 DETECTABLE WARNINGS ARE REQUIRED:
 -WHERE RAMPS, LANDINGS, OR BLENDED TRANSITIONS PROVIDE A FLUSH PEDESTRIAN CONNECTION TO THE ROADWAY.
 -WHERE PEDESTRIAN ACCESS ROUTES CROSS COMMERCIAL DRIVEWAYS THAT ARE PROVIDED WITH TRAFFIC CONTROL DEVICES OR OTHERWISE PERMITTED TO OPERATE LIKE A PUBLIC ROADWAY.
 -AT PEDESTRIAN RAILWAY CROSSINGS.
 -ON RAIL PLATFORMS WHERE BOARDING EDGES ARE NOT PROTECTED.
 DETECTABLE WARNINGS SHALL EXTEND:
 -A MINIMUM OF 24" IN THE DIRECTION OF TRAVEL.
 -THE FULL WIDTH OF THE RAMP, LANDING, OR BLENDED TRANSITION, WITHIN 3" OF FULL WIDTH ON EITHER END.
 -THE FULL LENGTH OF THE PUBLIC USE AREA OF A RAIL PLATFORM.
 DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, ROADWAY, OR WALKWAY, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. CONTRAST MAY BE PROVIDED ON THE FULL RAMP SURFACE, EXCLUDING THE FLARED SIDES.

FOR MNDOT PROJECTS, SEE MNDOT'S APPROVED/QUALIFIED PRODUCT LISTS.

ALL TRUNCATED DOME SYSTEMS SHALL BE PLACED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

- (1) CENTER-TO-CENTER DOME SPACING: 1.6" MINIMUM, 2.4" MAXIMUM.
- (2) BASE-TO-BASE DOME SPACING: 0.65" MINIMUM.
- (3) DOME BASE TO PLATE EDGE SPACING: 0.35" MINIMUM, 0.75" MAXIMUM.
- (4) SPACING VARIES ON RADIAL PLATES.
- (5) TYPICAL WIDTHS AVAILABLE: 12", 18", 24", 30", 36". CHECK WITH MANUFACTURERS FOR AVAILABLE WIDTHS.
- (6) ON RADIAL PLATE, RADIUS DEFINED AT BACK OF CURB.
- (7) TYPICAL RADII. CHECK WITH MANUFACTURERS FOR AVAILABLE RADII.

APPROVED AUGUST 23, 2010

 STATE DESIGN ENGINEER

STATE OF MINNESOTA
 DEPARTMENT OF TRANSPORTATION
DETECTABLE WARNING SURFACE
 TRUNCATED DOMES

SPECIFICATION REFERENCE
 2531
 2563
 REVISED
 01-09-2020 M.J.E.

STANDARD PLATE NO.
7038A