

Section 4

Sidewalks

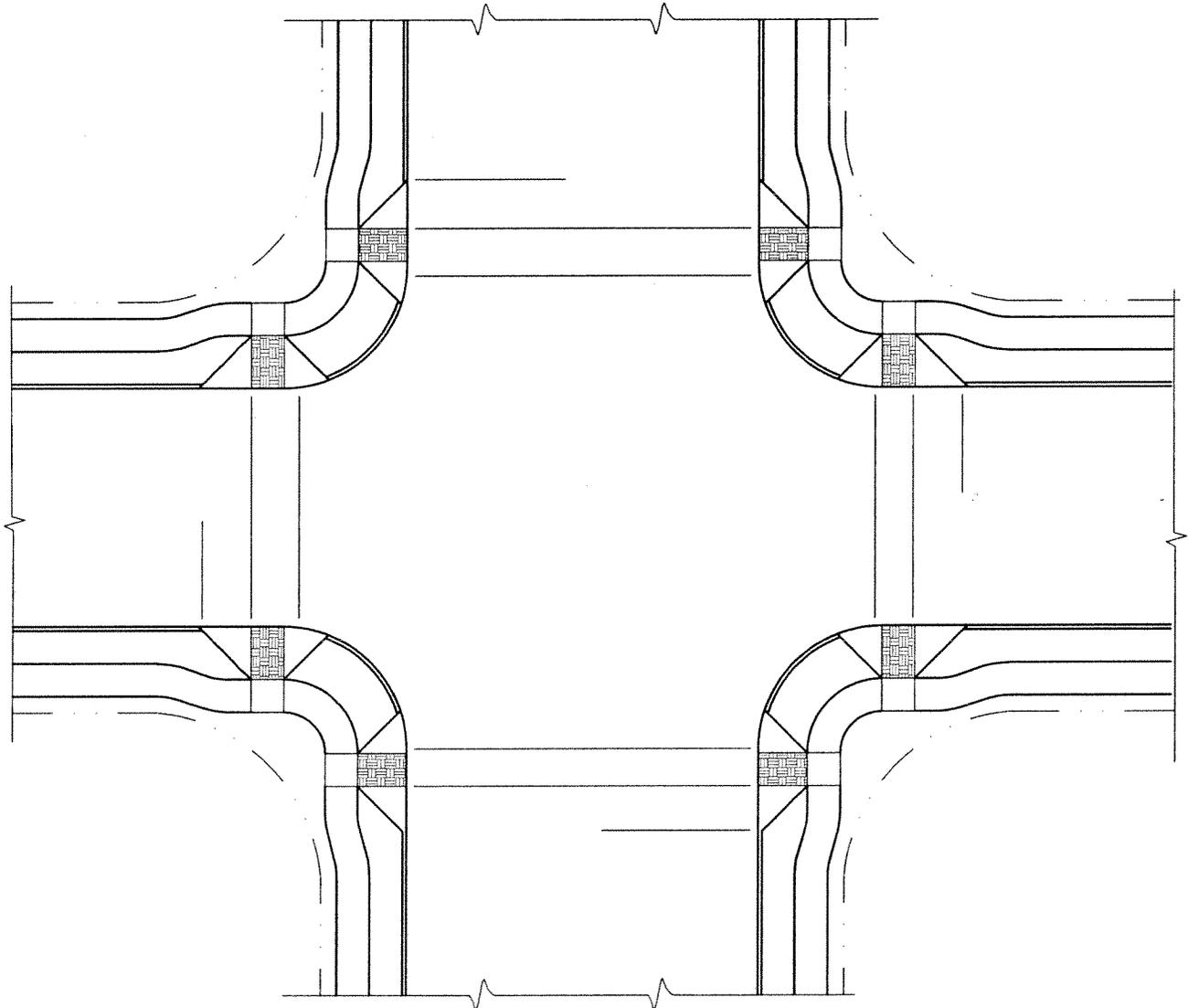
Pedestrian Ramps

General Notes

1. Commercial sidewalks widths – 5'
Residential sidewalk widths – 4'
2. All slopes are maximum allowable. Flatter slopes that will still drain properly are encouraged.
3. All concrete surfaces shall receive a light broom finish unless noted otherwise in the plans.
4. For purposes of warning, the curb ramps shall have a light reflective value and texture that significantly contrasts with that of adjoining pedestrian routes.
5. Textures may consist of pavers with truncated domed surfaces or grooves. Textures are required to be detectable underfoot. Surfaces that would allow water to accumulate are prohibited.
6. Color contrast, for example, can be accomplished with colored concrete pavers that have truncated domes or by colored stained concrete with grooves, either of which would provide a contrast with typically light colored concrete.
7. Additional information on curb ramp location, design, visibility and texture may be found in the current edition of the Texas Accessibility Standards (TAS) prepared and administered by the Texas Department of Licensing and Regulation (TDLR).
8. Raised medians separate opposing directions of traffic and provide a refuge area for pedestrians if they are unable to cross the entire roadway in the allotted signal phase. To serve as a refuge area, the median should be a minimum of 4 feet wide. Medians should be designed to provide accessible passage over or through them.
9. Any part of the accessible route with a slope greater than 1:20 (5%) shall be considered a ramp. If a ramp has a rise greater than 6 inches or a horizontal projection greater than 72 inches, then it shall have handrails on both sides. The only exception is at curb ramps. Handrails are not required on curb ramps. Curb ramps shall be provided wherever an accessible route crosses (penetrates) a curb. Curb ramps are generally interpreted as only the portion tying directly into the roadway.
10. Traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items shall be placed so not to obstruct the accessible route.
11. All sidewalks will be doweled into existing sidewalks, drivewalks, driveways, inlet boxes, retaining walls, etc.

TYPICAL INTERSECTION LAYOUT WITH OFFSET SIDEWALKS

NOT TO SCALE



Note: Curb ramps with returned curbs instead of side flares are permitted where pedestrians would not normally walk across the ramp.

TYPICAL CURB RAMP PLACEMENTS AT INTERSECTIONS

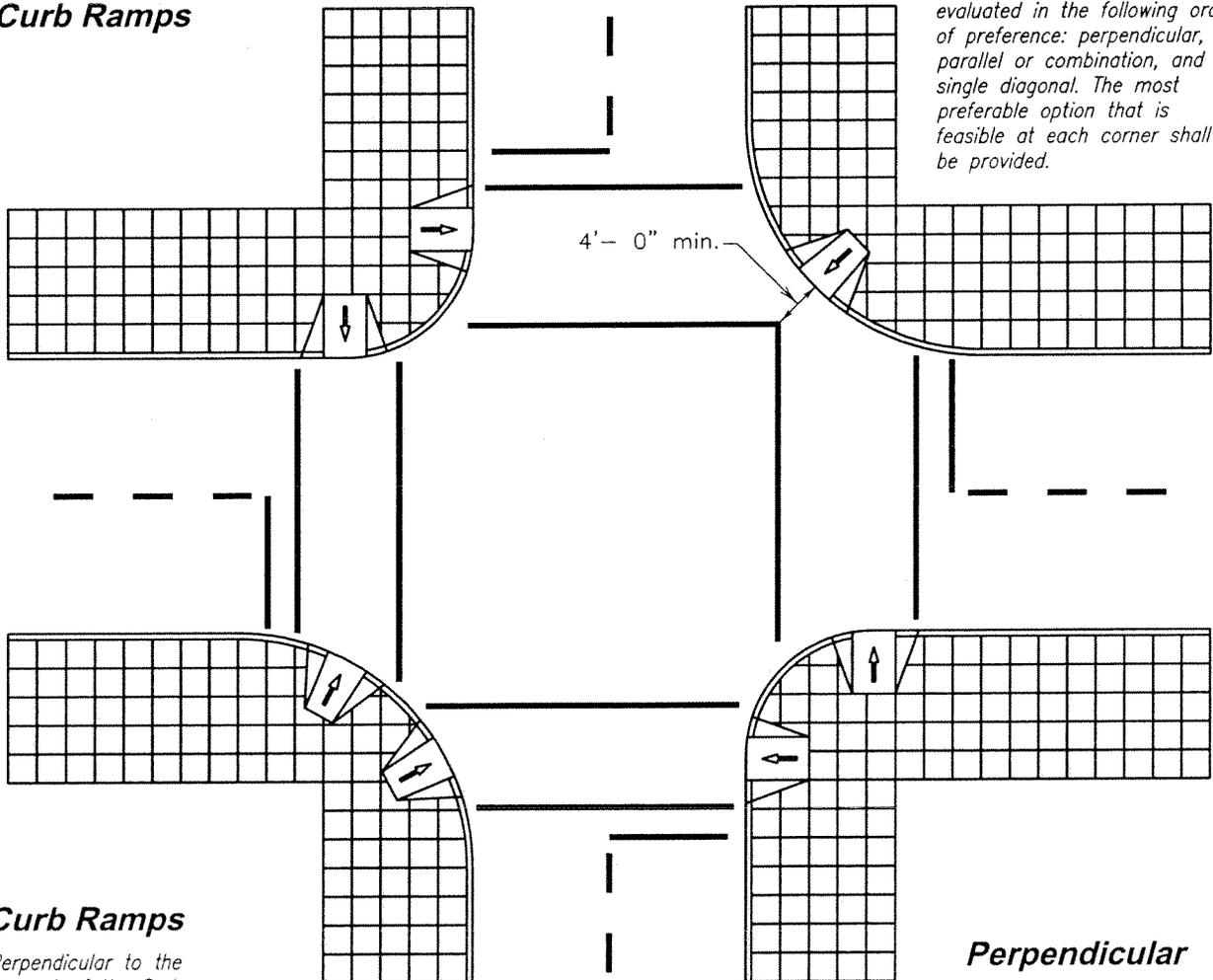
NOT TO SCALE

Single Diagonal Curb Ramp

For on-system new construction, reconstruction and rehabilitation projects where pedestrian facilities are newly constructed or substantially altered, construction of single diagonal ramps is not permitted.

For on-system projects such as restoration, seal coat and overlay projects, placement of curb ramps should be evaluated in the following order of preference: perpendicular, parallel or combination, and single diagonal. The most preferable option that is feasible at each corner shall be provided.

Perpendicular Curb Ramps



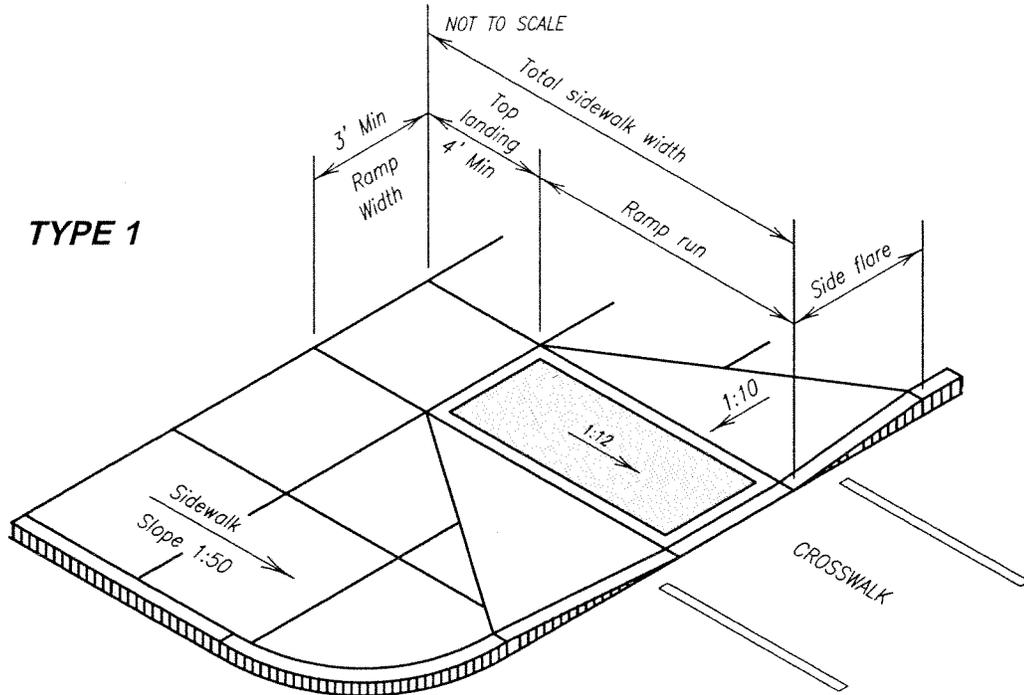
Curb Ramps

Perpendicular to the Tangent of the Curb Radius and Contained in Crosswalk

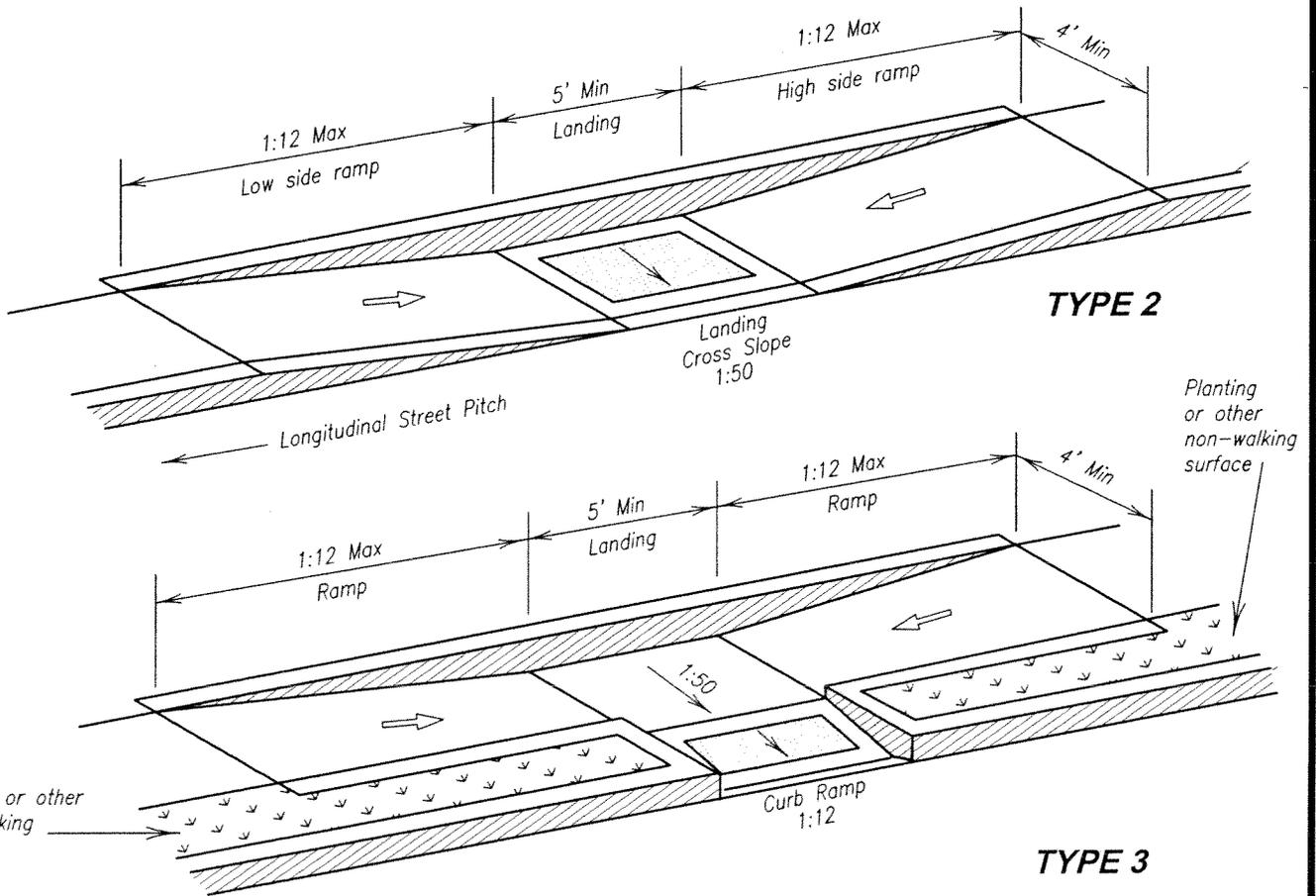
Perpendicular Curb Ramps

SIDEWALK RAMP DETAILS

TYPE 1



PERPENDICULAR CURB RAMPS



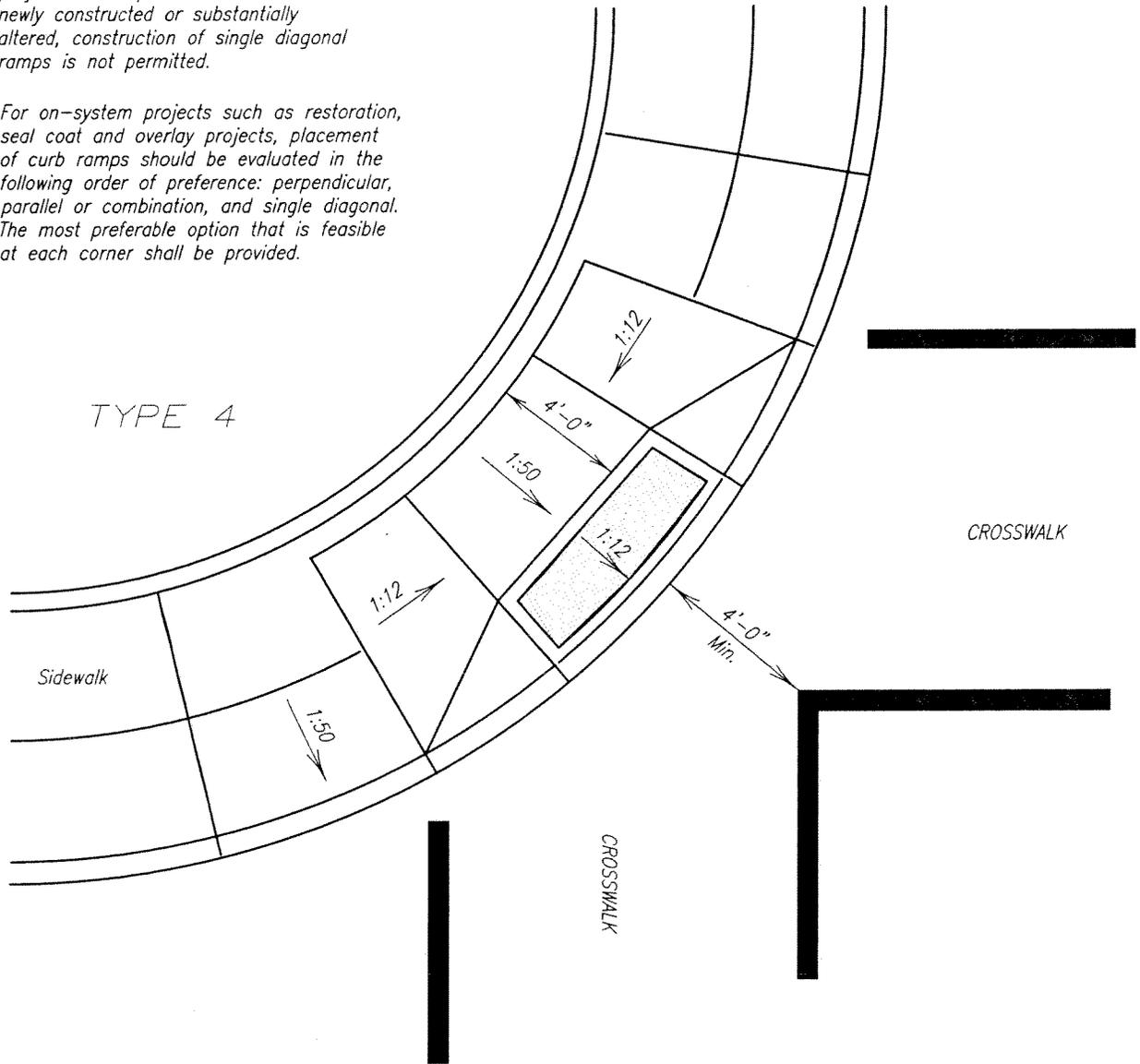
PARALLEL CURB RAMPS

SIDEWALK RAMP DETAILS

NOT TO SCALE

For on-system new construction, reconstruction and rehabilitation projects where pedestrian facilities are newly constructed or substantially altered, construction of single diagonal ramps is not permitted.

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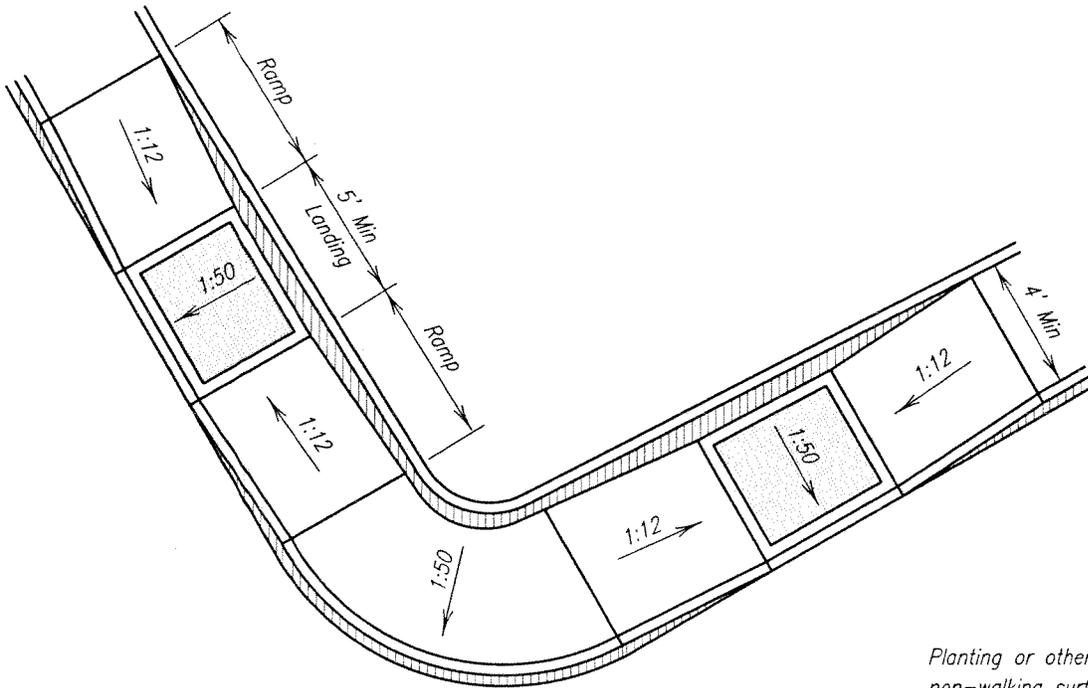


SINGLE DIAGONAL CURB RAMP

Perpendicular to the Tangent of the Curb Radius and Contained in Crosswalk

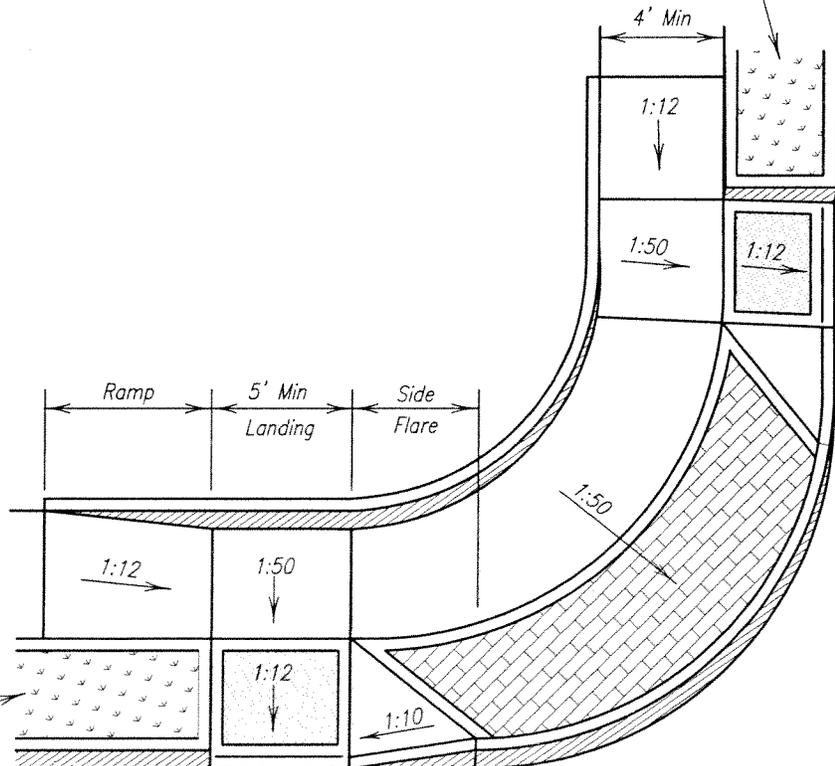
COMBINATION (PERPENDICULAR / PARALLEL) CURB RAMPS

NOT TO SCALE



TYPE 5

Planting or other non-walking surface



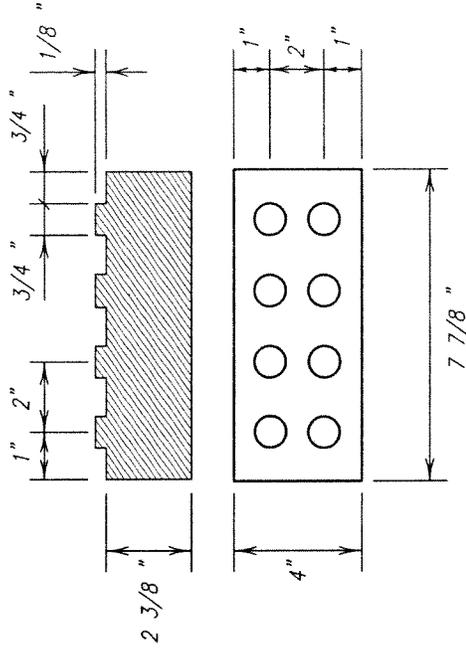
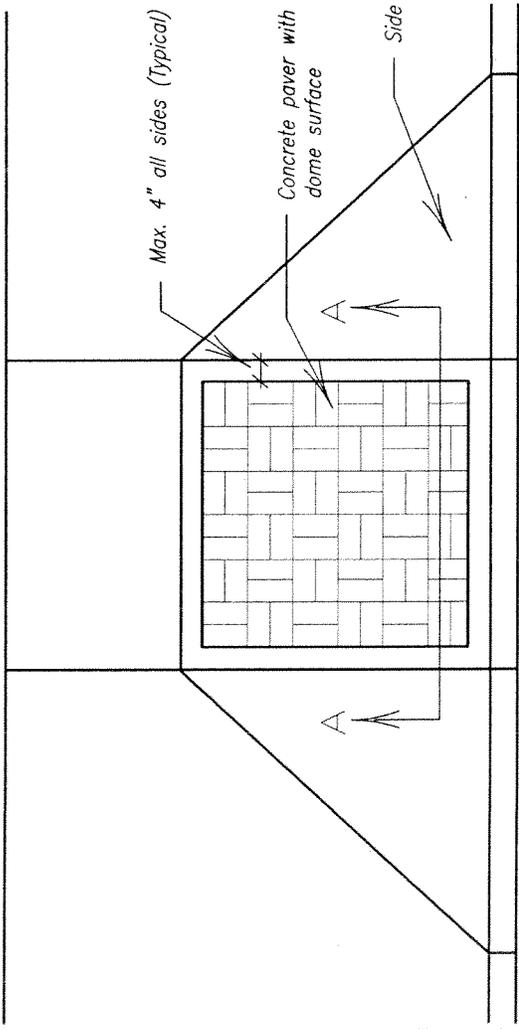
Planting or other non-walking surface

TYPE 6

CURB RAMP TEXTURING

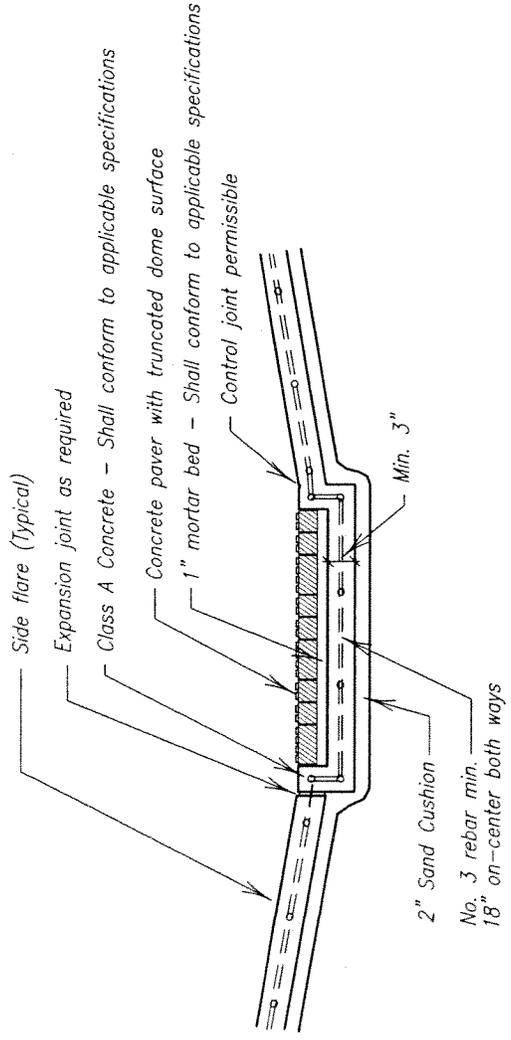
TYPE A

NOT TO SCALE



Concrete paver with truncated dome surface

Truncated Dome Pattern Curb Ramp



Section A-A

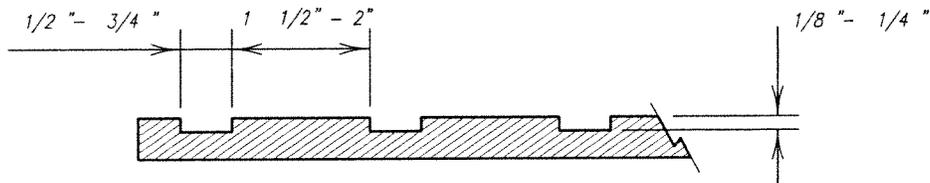
General Notes

- Concrete paver units shall meet all requirements of ASTM C-936, C-33, and shall be laid in a two by two unit basket weave pattern, unless shown otherwise in the plans.
- Concrete paver units shall have a truncated dome top surface for detectable warning to pedestrians.
- Concrete paver unit color for the ramp shall be a contrasting color to the adjacent surfaces. The color of the concrete paver units shall be shown elsewhere in the plans. (Adjacent surfaces include side flares).
- Concrete paver units shall be saw cut only and any cut unit shall be not less than 25 percent of a full unit.

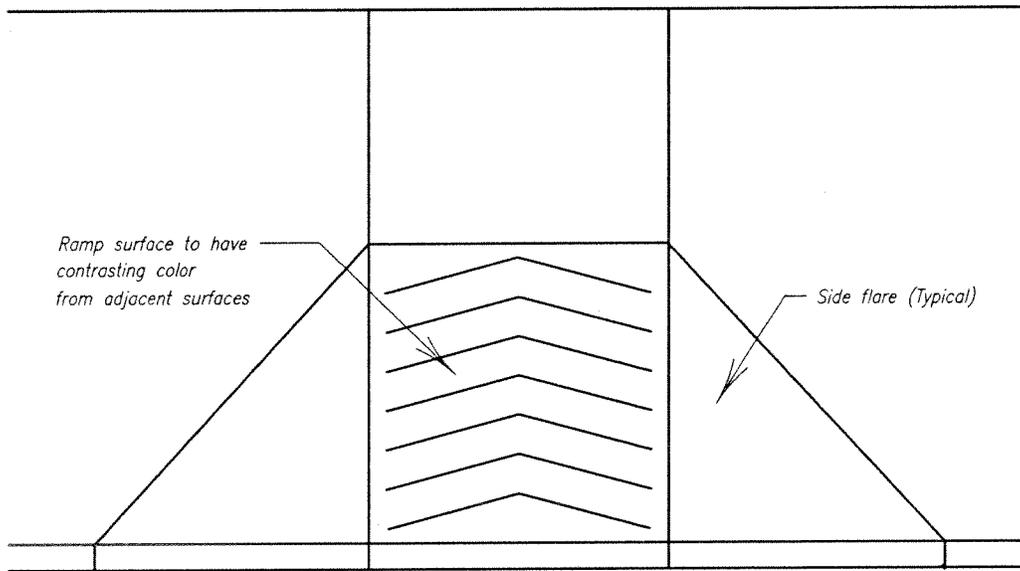
CURB RAMP TEXTURING

TYPE B

NOT TO SCALE



Groove pattern



**Groove Pattern Curb Ramp
(15 Degree to Horizontal)**

General Notes

Concrete surface areas that are identified in the plans to receive sealer/stain treatment, shall not be treated w/ curing compound (retardant) and shall be allowed to cure a minimum of 30 days prior to application of the sealer/stain.

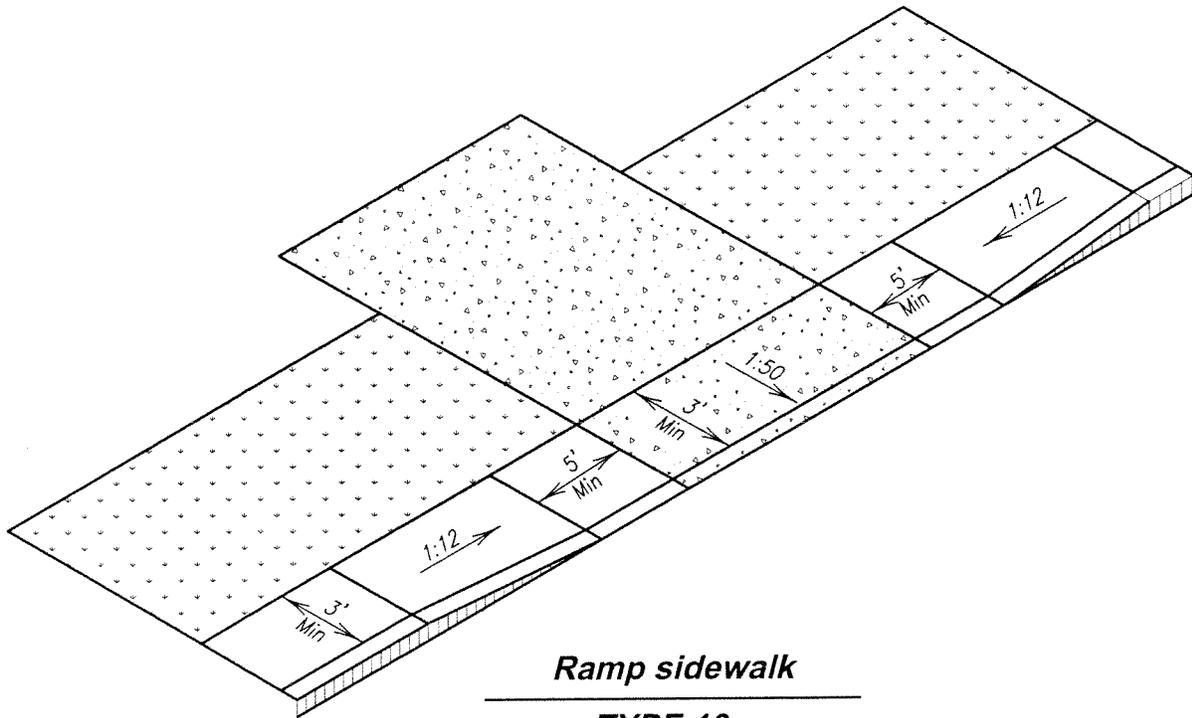
The sealer/stain for the ramp shall be a contrasting color to the adjacent surfaces (adjacent surfaces include the side flares). The color of the sealer/stain shall be shown elsewhere in the plans.

Sealer/stain shall be applied in accordance with applicable specifications.

Areas receiving sealer/stain treatment shall be cleaned using a "dry" (sand) blast cleaning method in accordance with applicable specifications.

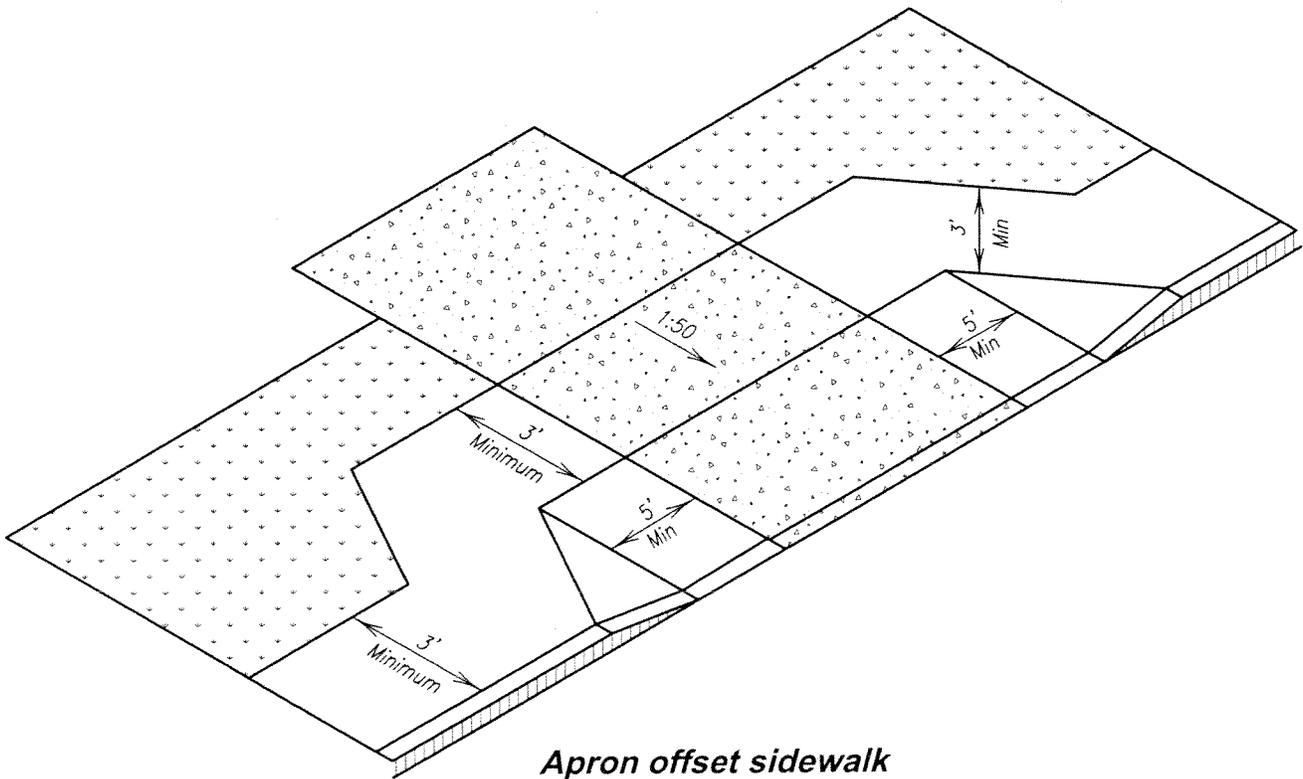
DRIVEWAY APRONS

NOT TO SCALE



Ramp sidewalk

TYPE 10

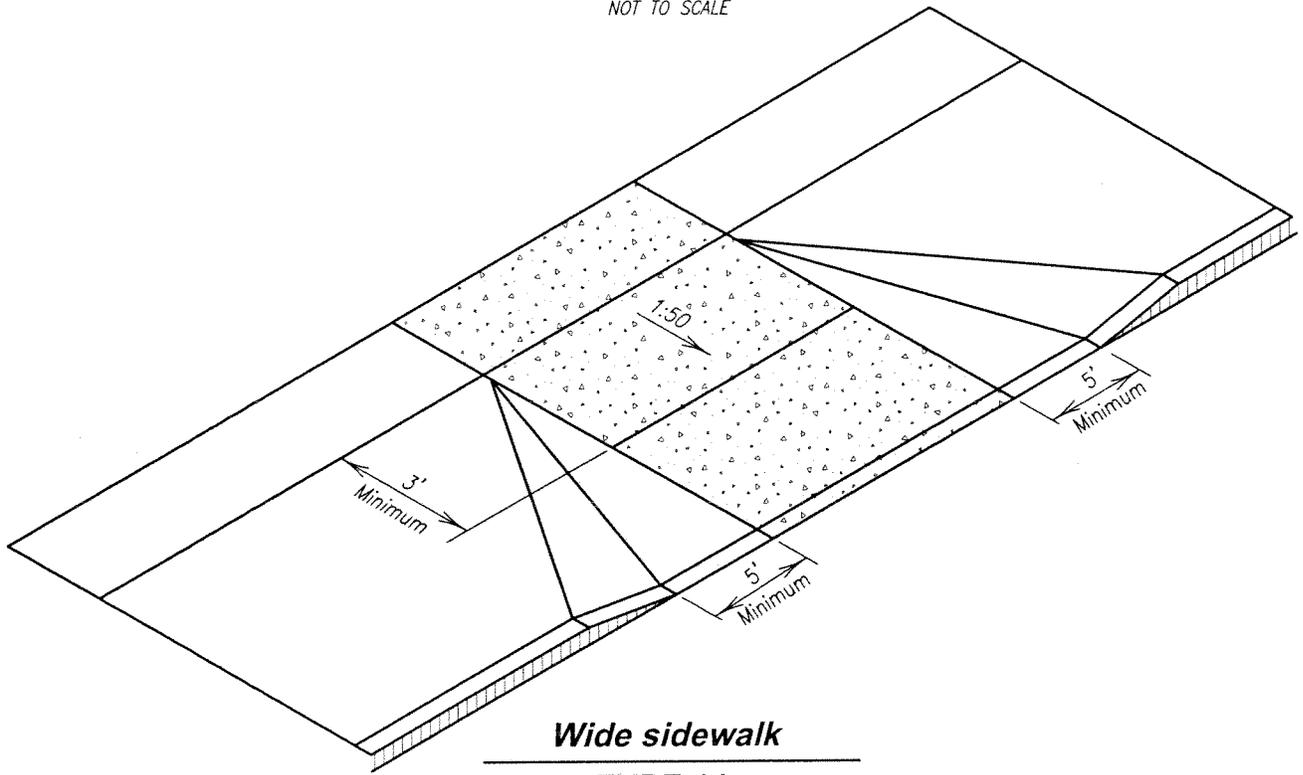


Apron offset sidewalk

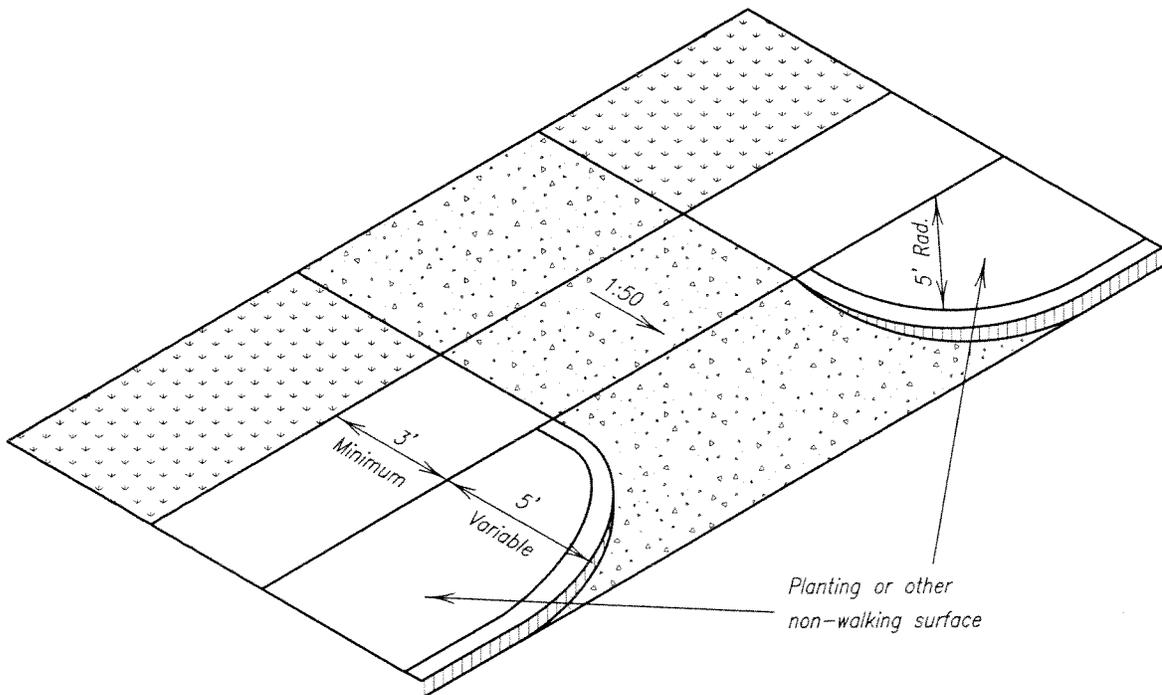
TYPE 12

DRIVEWAY APRONS

NOT TO SCALE



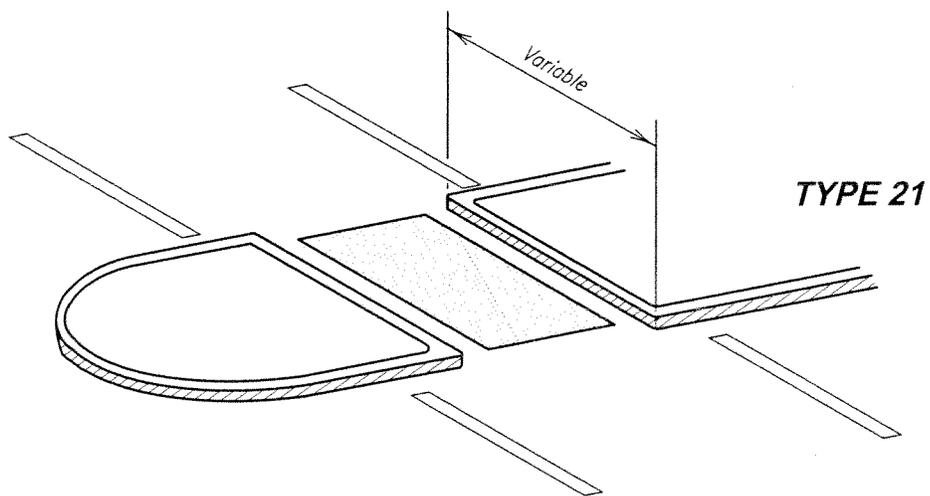
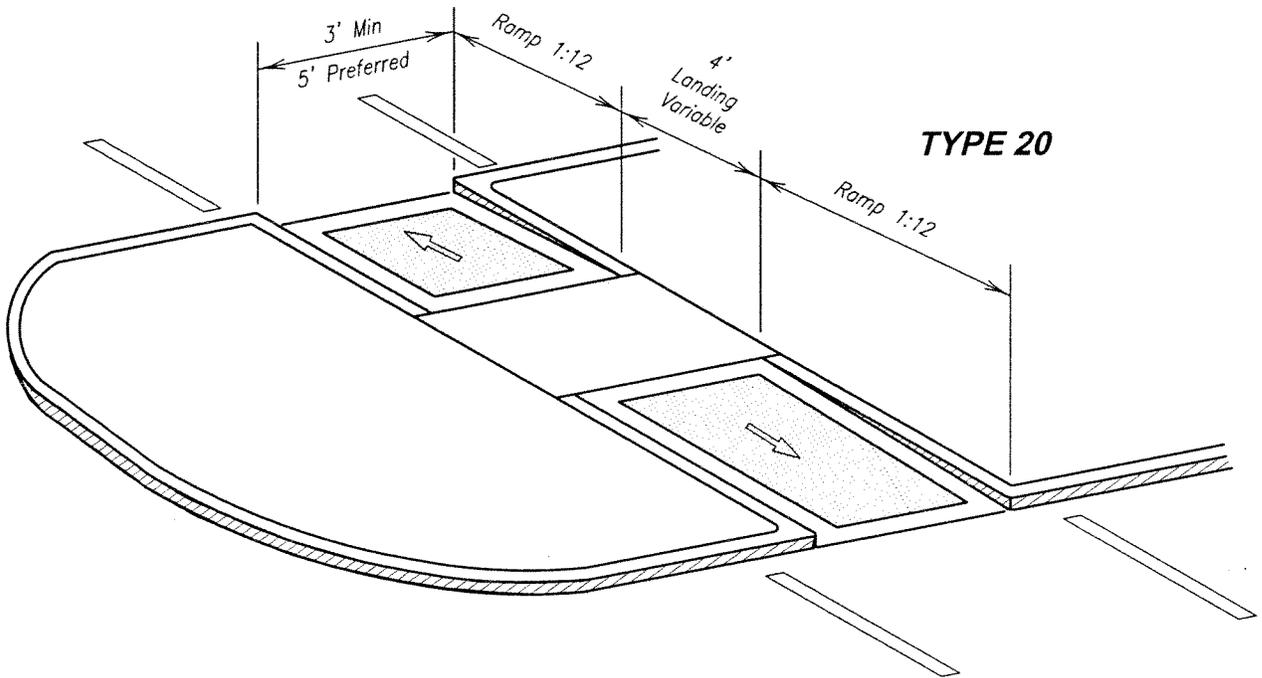
Wide sidewalk
TYPE 11



Setback sidewalk
TYPE 13

CURB RAMPS AT MEDIAN ISLANDS

NOT TO SCALE



MAXIMUM BACK SLOPE TO R.O.W.
LINE TO BE 4:1 IN NEW
SUBDIVISIONS

NO STEEL
REINFORCEMENT
REQUIRED

VARIES 4'-0" TO 5'-0"

SLOPE = 1:50

4" CONCRETE

2" WELL GRADED SAND

SUBGRADE SHALL BE COMPACTED
TO 90% STANDARD PROCTOR @
OPTIMUM MOISTURE +/- 2%

ROADWAY

TYPICAL SIDEWALK SECTION

NOT TO SCALE