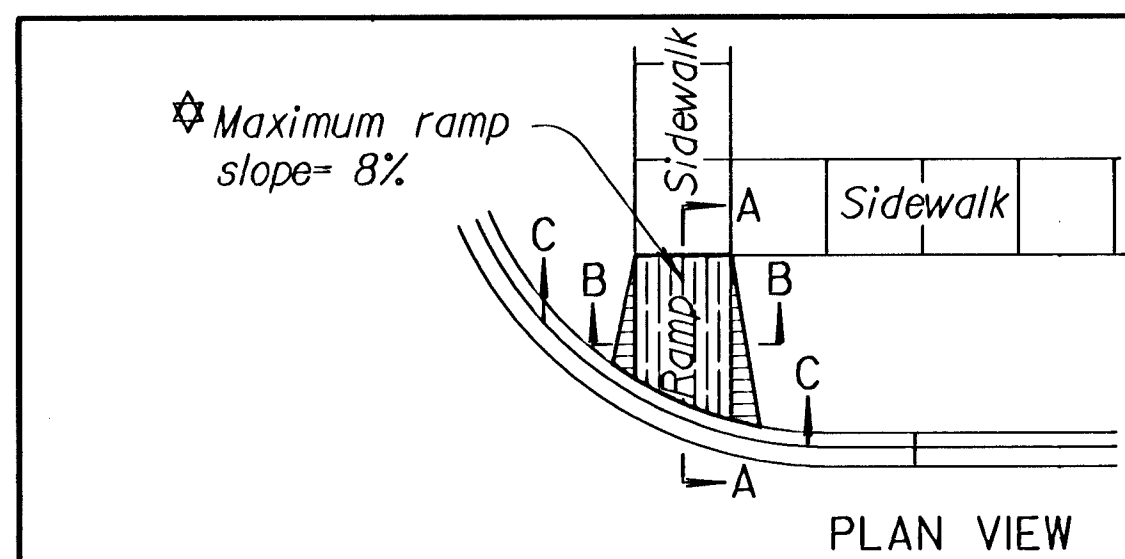
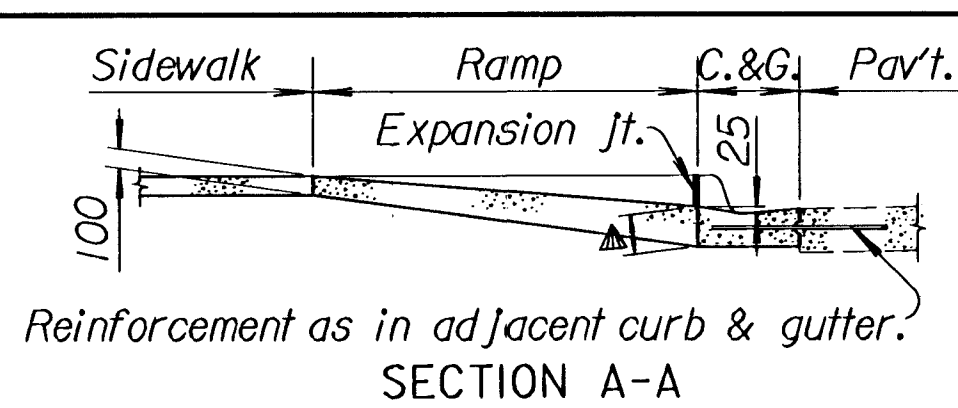


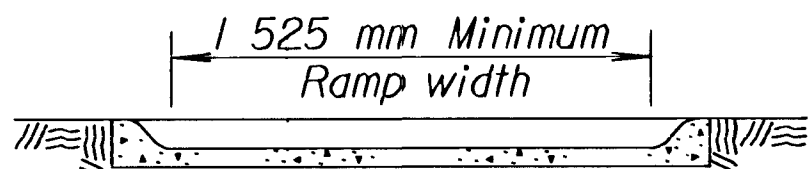
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0203-01	2003	10	48



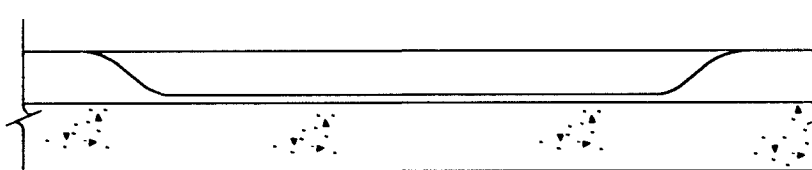
PLAN VIEW



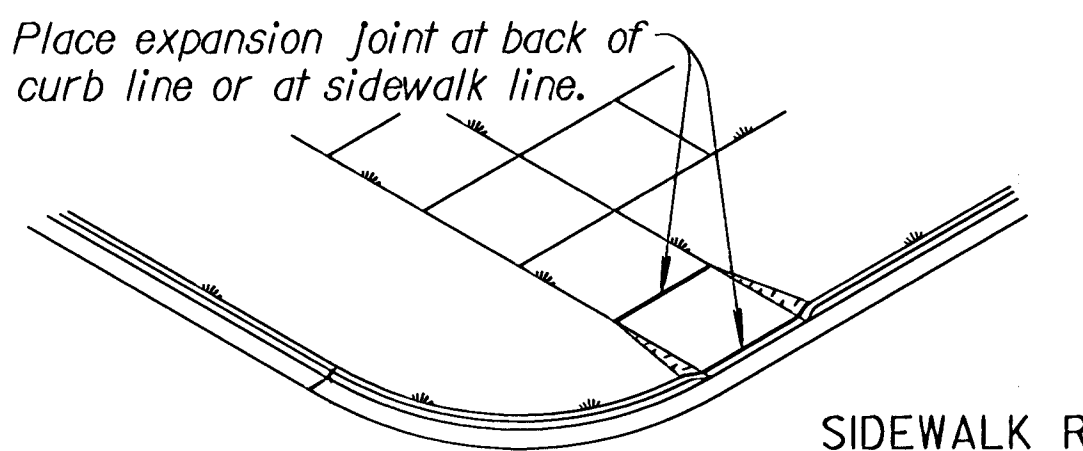
SECTION A-A



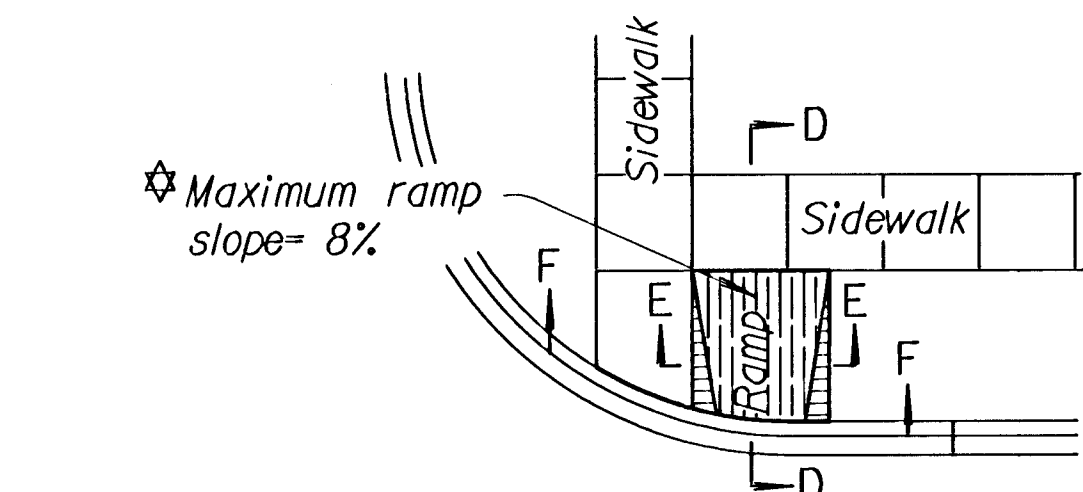
SECTION B-B



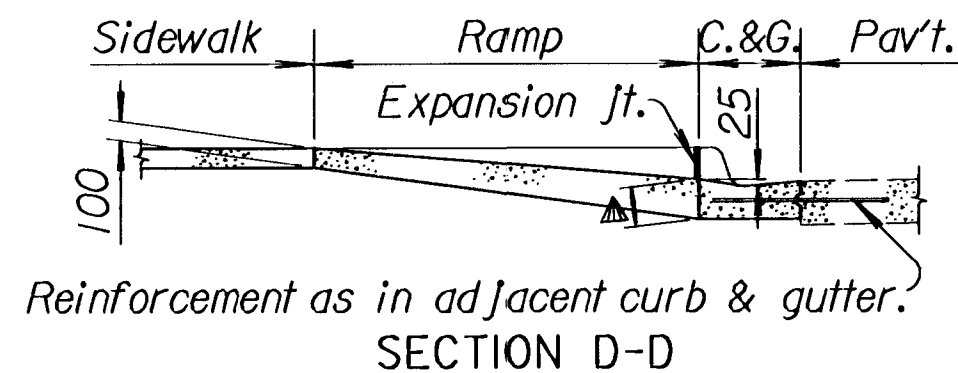
SECTION C-C



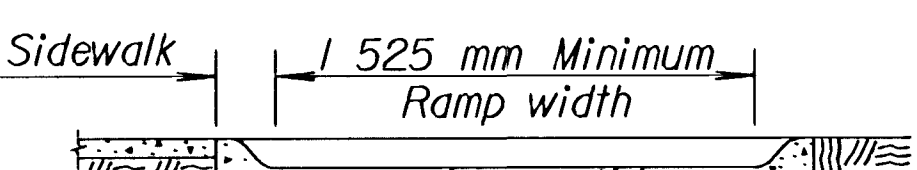
SIDEWALK RAMP TYPE 1



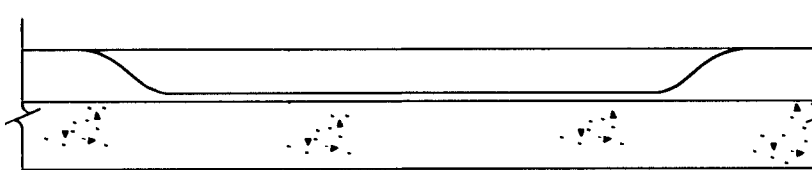
PLAN VIEW



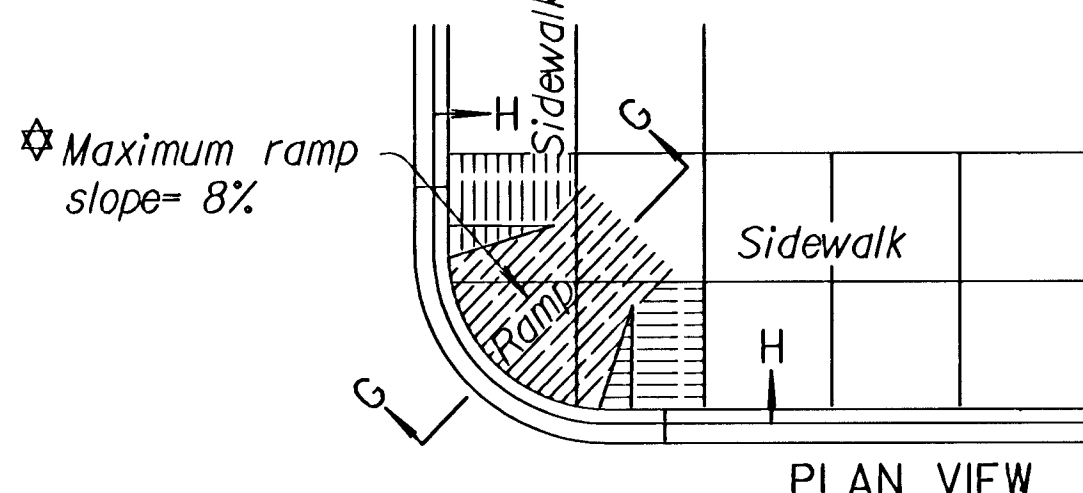
SECTION D-D



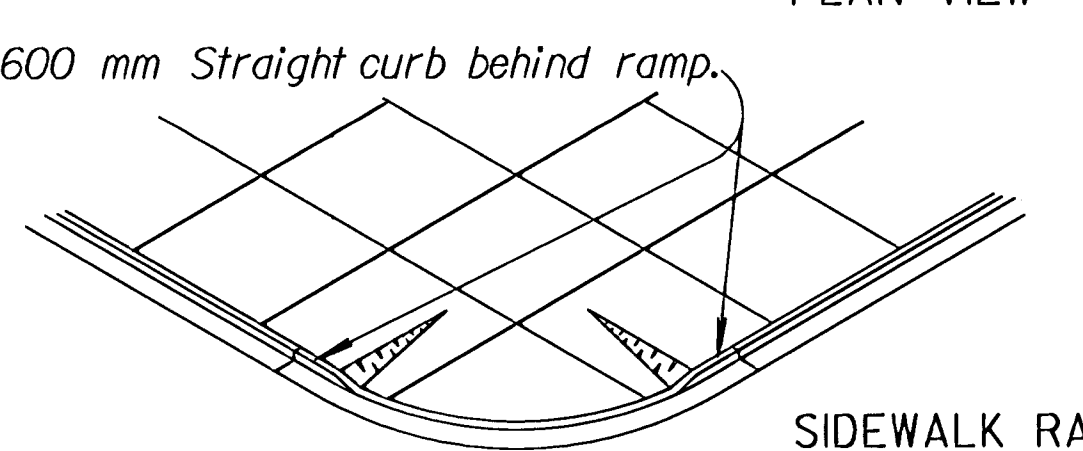
SECTION E-E



SECTION F-F

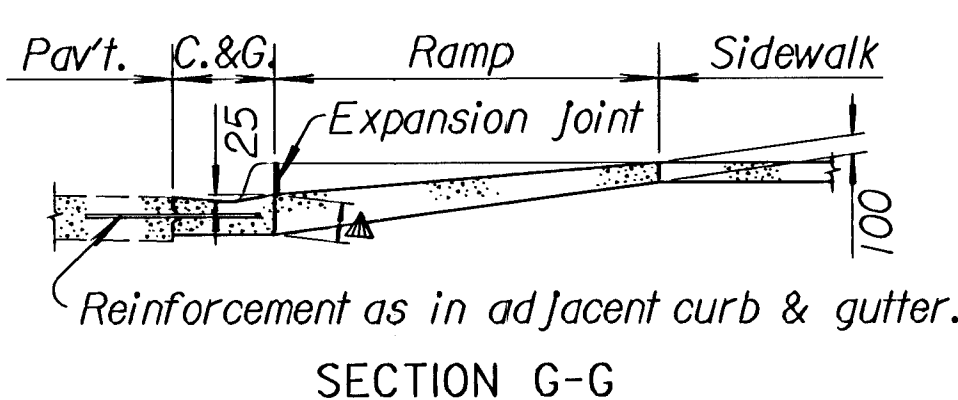


PLAN VIEW

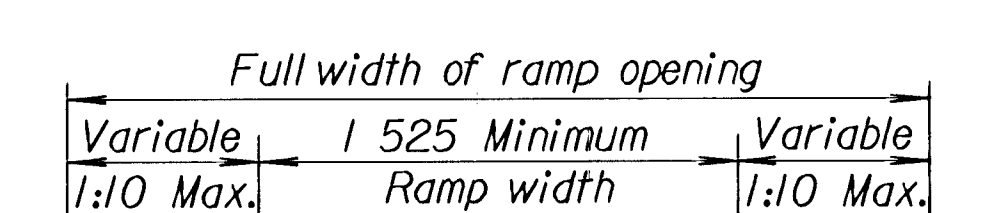


SIDEWALK RAMP TYPE 3

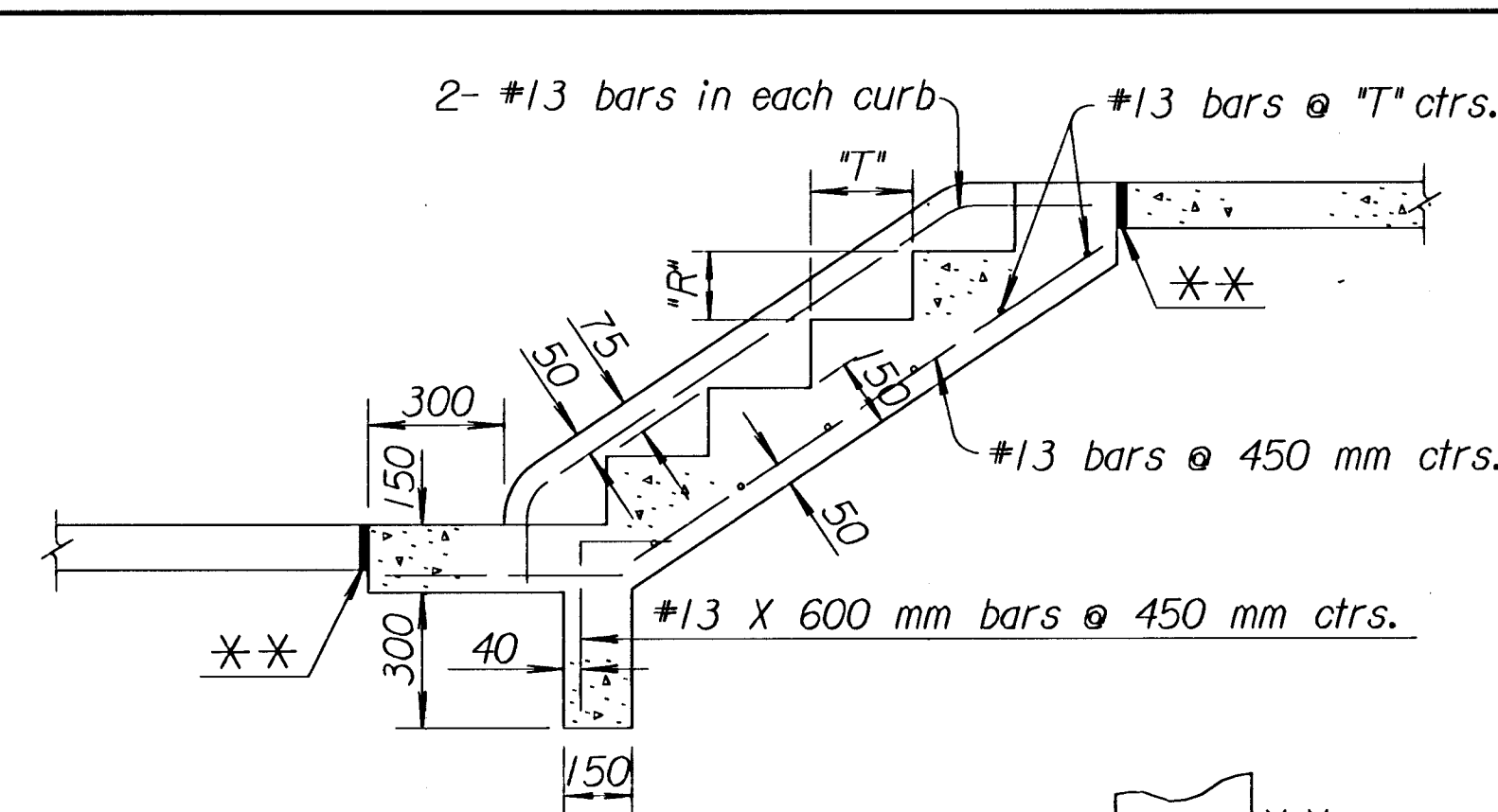
To be used where sidewalk occupies entire area between curb and property line.



SECTION G-G



SECTION H-H

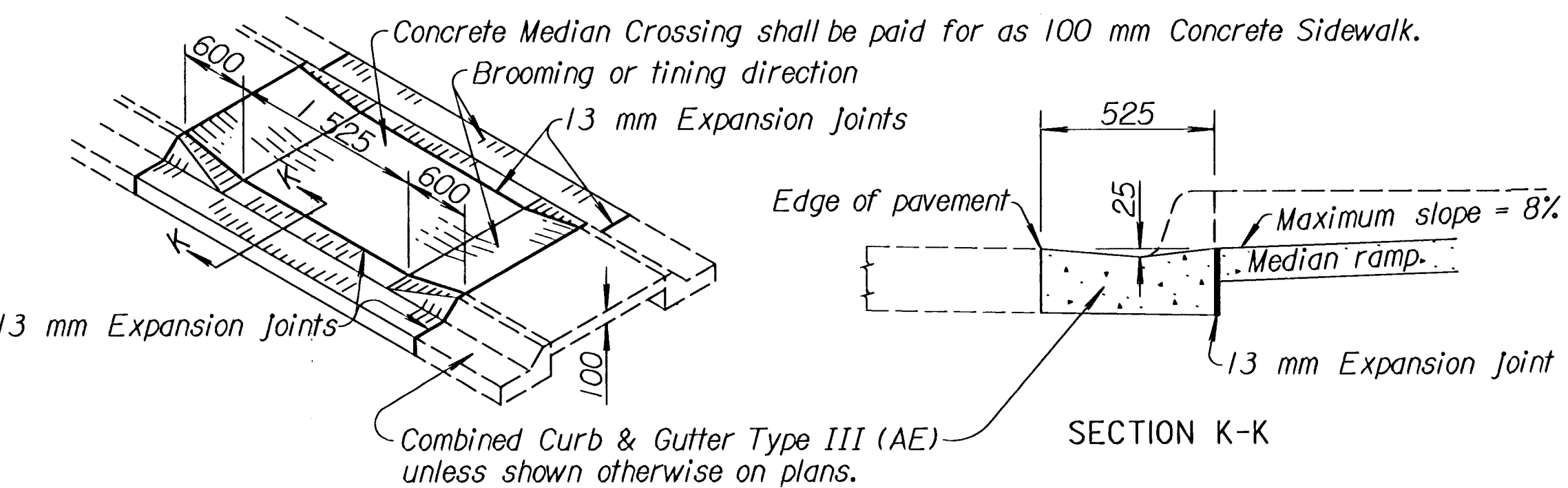


SECTION J-J

Step formula:
"R" x "T" = not less than 45,000 nor more than 48,400.
The maximum "R" = 170 mm
The minimum "T" = 280 mm

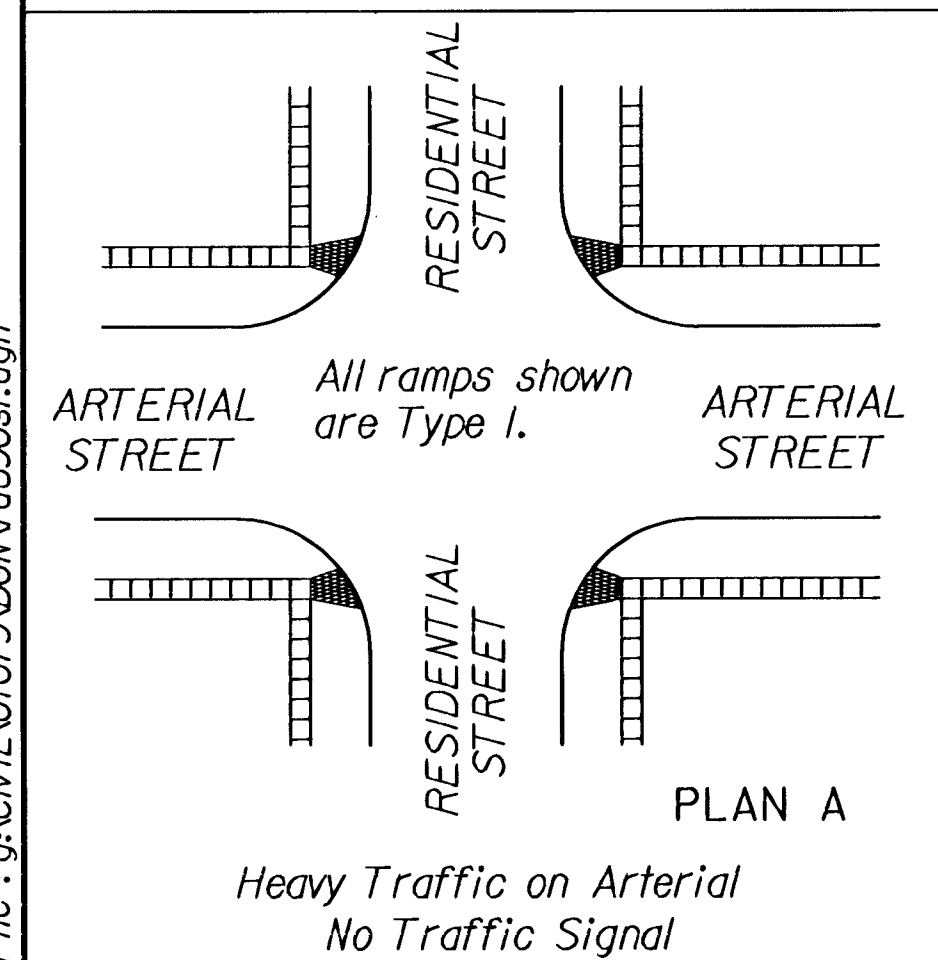
▲ Match thickness of back of Curb & Gutter.

★ Maximum ramp slope in new construction shall be 8%.
Desirable maximum ramp slope on existing sites shall be 8%.
Where space limitations prohibit construction of 8% slopes at existing sites maximum slopes shall be as follows:
1:8 for a maximum rise of 75 mm
1:10 for a maximum rise of 150 mm



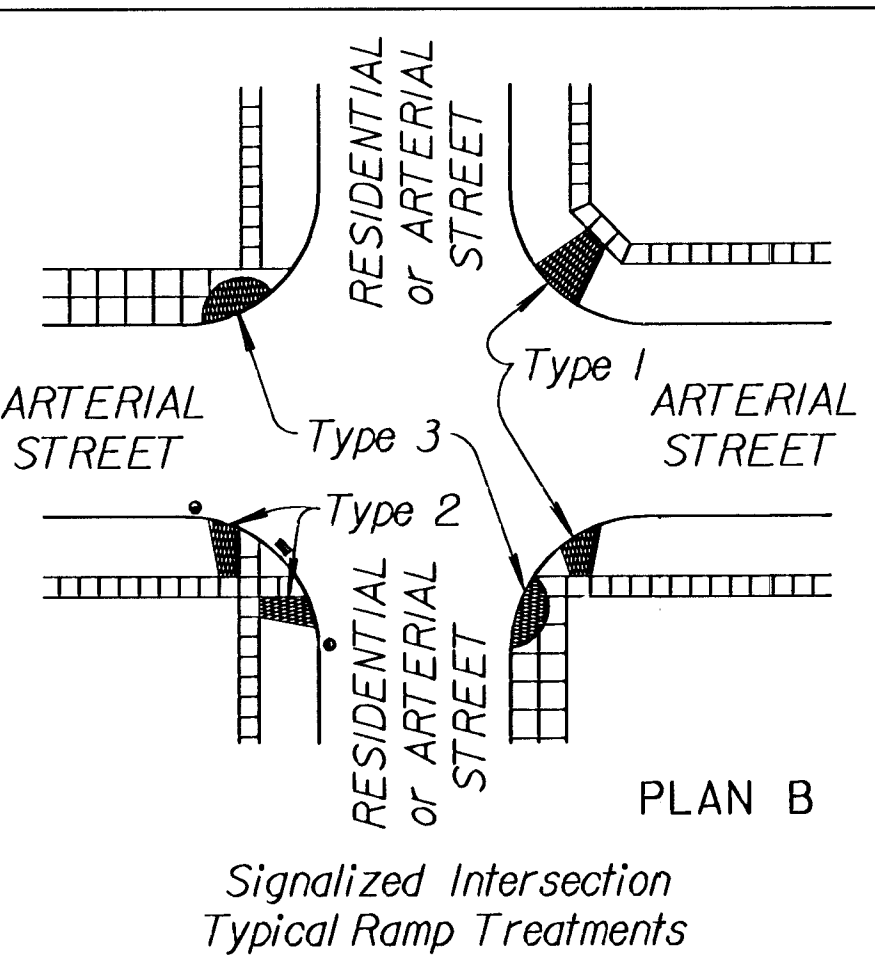
MEDIAN RAMP CROSSING

Note: A Median Ramp Crossing shall be constructed at Crosswalk locations.



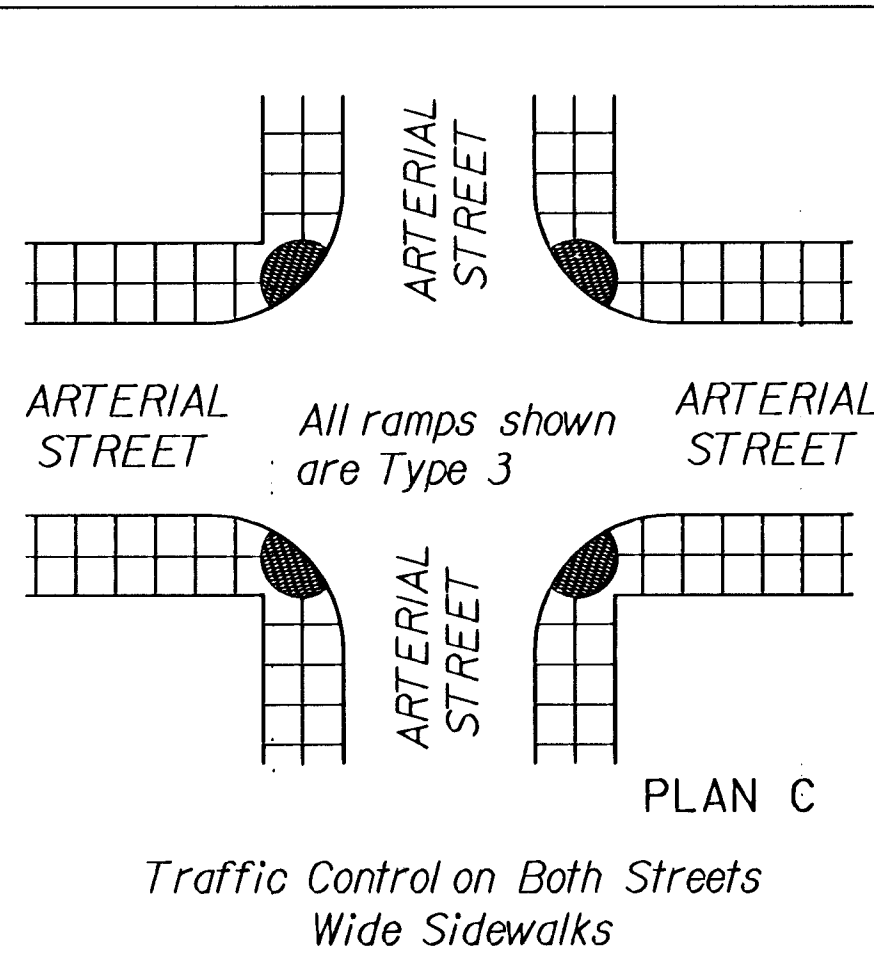
PLAN A

Heavy Traffic on Arterial
No Traffic Signal



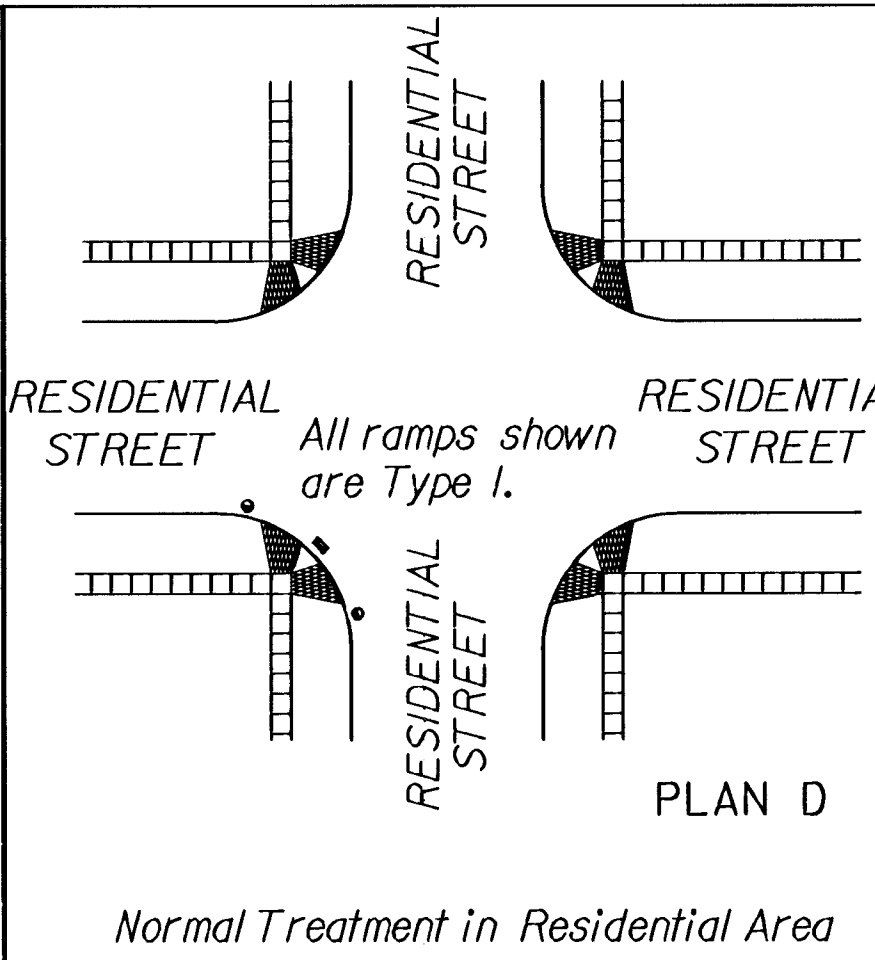
PLAN B

Signalized Intersection
Typical Ramp Treatments



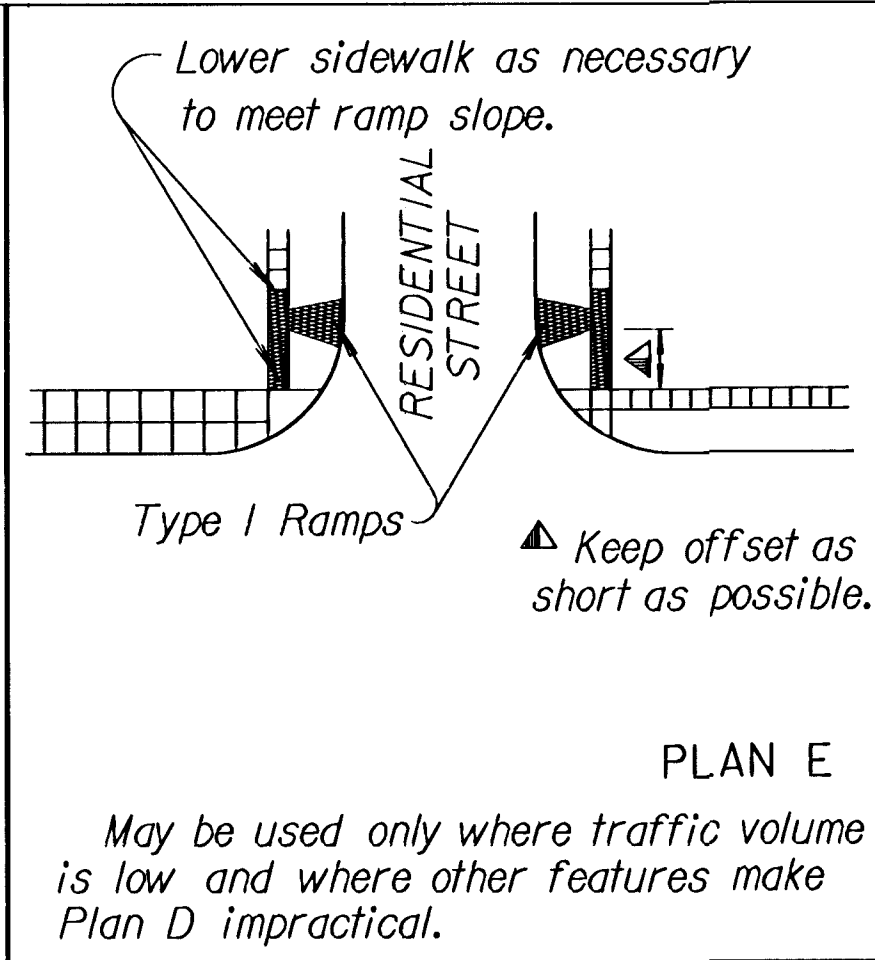
PLAN C

Traffic Control on Both Streets
Wide Sidewalks



PLAN D

Normal Treatment in Residential Area



PLAN E

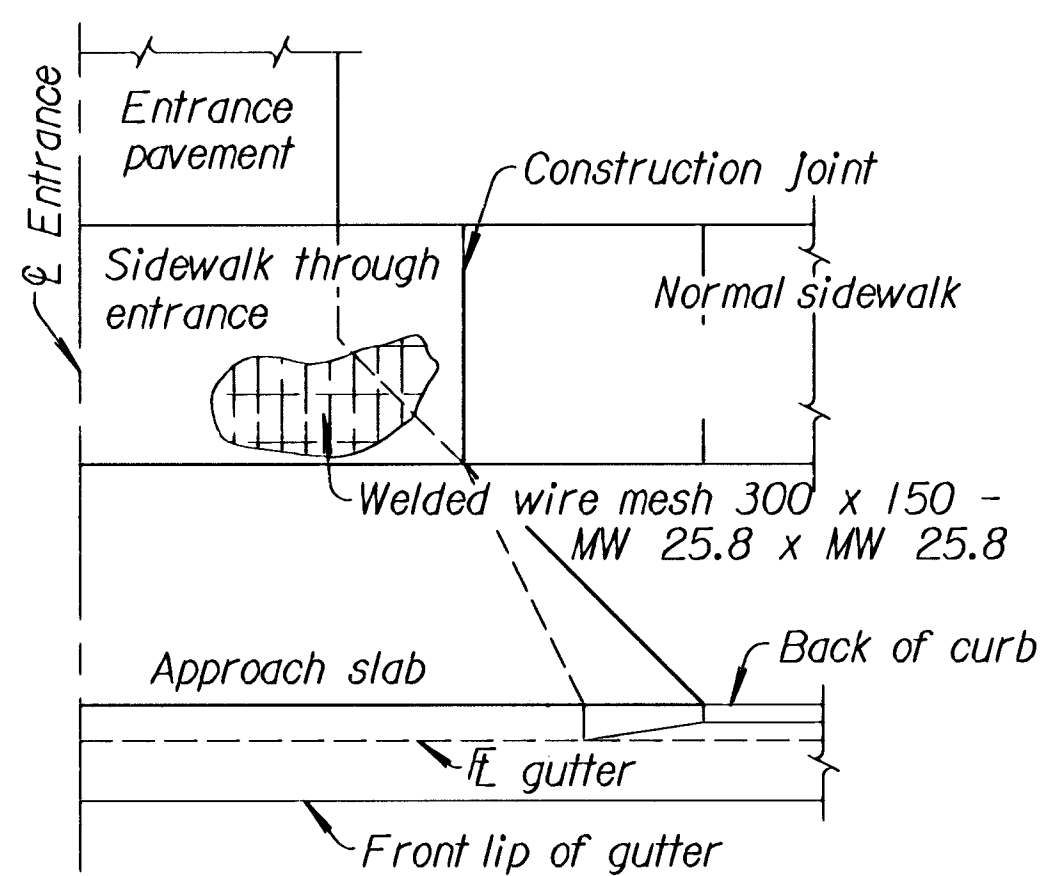
May be used only where traffic volume
is low and where other features make
Plan D impractical.

Note: Reinforcing bars shown are to be used
only when more than four steps are necessary.
Where field conditions permit, the steps should
not be constructed too steep.

Φ Expansion Joint (19 mm redwood board) placed at either
back of curb line or at sidewalk line.

★★ Expansion Joint (19 mm redwood board) located as shown.

◆ Variable width (1 525 mm min.). Entrance walk to be same
width as approach walk. Sidewalk width of 1 220 mm may be
used where existing conditions prohibit use of 1 525 mm



REINFORCEMENT DIAGRAM
SIDEWALK THROUGH ENTRANCE

See Standard Drawing RD683 SI for details of Alley and Entrance Pavement.

NOTES: Ramps shall be provided at all corners of street intersections where there is existing or proposed
sidewalk and curb. Ramps shall also be provided at walk locations in mid-block in the vicinities of
hospitals, medical centers and athletic stadiums.

Details shown on this sheet apply to all construction or reconstruction of streets, curbs or sidewalks.
Use of sidewalk ramp Type 2 shall be restricted to locations where is is not feasible to use Types
1 or 3.

Curb cut ramps are to be located as shown on the plans or as directed by the Engineer.

The normal gutter line profile shall be maintained through the area of the ramp.

If possible, drainage structures should not be placed in line with ramps. Except where existing
drainage structures are being utilized in the new construction, location of the ramp should take
precedence over location of drainage structure.

Sidewalks shall be ramped where the driveway curb is extended across the walk.

Care shall be taken to assure a uniform grade on the ramp, free of sags and short grade changes.

Expansion Joints shall be placed in sidewalks as follows: In long runs, expansion joints shall be
19 mm redwood boards flush with the surface, at a maximum spacing of 38 m. This same joint
should be used at sidewalk junctions as shown in Typical Plan.

Where the end of the sidewalk abuts a curb, a 19 mm redwood board flush with the surface shall
be used.

Where the sidewalk is parallel and adjacent to a rigid structure, a 13 mm premolded joint filler
(Nonextruding, Type B) shall be used.

Sidewalk shall slope toward the street at a maximum of 2%, and where necessary, may be de-
pressed or sloped to fit alleys and entrances as shown on the plans or as directed by the Engineer.

Where clear width of sidewalk between top of ramp and building or other obstruction is less than
1 220 mm, the slope of the flared sides shall not exceed 8%.

Where sidewalk is shown to be constructed back of an entrance it shall be 150 mm thick with
welded wire mesh reinforcement of the same gauge and spacing of wires as in entrance pavement, as
shown in the Reinforcement Diagram. Bid item will be "Sidewalk Construction (150 mm) either with or
without air entrainment.

Where the plans do not require air entrainment for sidewalk and sidewalk ramps, at the Contrac-
tor's option, Grade 25 Concrete (AE) may be used throughout. Payment will be made as square meters of
Sidewalk Construction.

At the Contractor's option Grade 25 Concrete (AE) may be used throughout for construction of
steps, but payment will be made as Grade 25 Concrete.

Surface texture of the ramp shall be that obtained by a coarse brooming or steel tining transverse
to the slope of the ramp and shall be sufficient to provide a ramp surface which contrasts with
adjacent surfaces.

LEGEND

Sidewalk Ramp Type 1

Sidewalk Ramp Type 2

Sidewalk Ramp Type 3

Preferred location of
drainage inlet (Typical)

Alternate location of
drainage inlet (Typical)

Sidewalk

NO.	DATE	REVISIONS	BY	APP'D
3				
2	4-30-02	Rev. concrete from Class to Grade.	S.W.K.	J.O.B.
1	6-26-97	Revised ramp thickness	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

SIDEWALK & STEPS

RD690 SI				
FHWA APPROVAL	5-01-02	APP'D. James O. Brewer	TRACED Bowser	
DESIGNED	DETAILED	QUANTITIES	TRACE CK. Seitz	
DESIGN CK.	DETAIL CK.	QUAN. CK.		