

APPENDIX A

STANDARD PLATES

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Connie Joiner, Clerk & Recorder, Teller County, Colorado

APPENDIX A STANDARD PLATES

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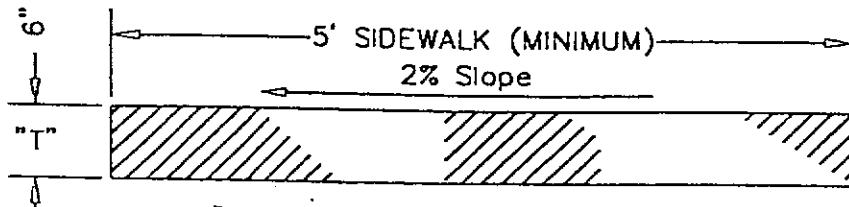
**APPENDIX A
STANDARD PLATES (Contd.)**

INDEX

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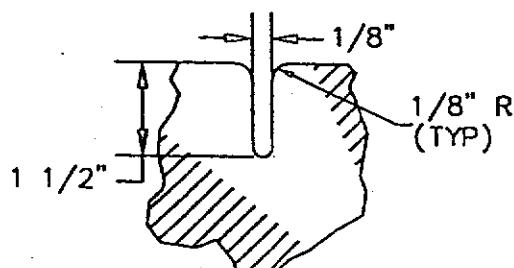
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STANDARD ATTACHED OR DETACHED WALK

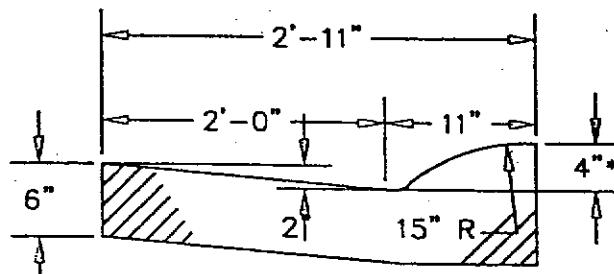


IF USED FOR
PEDESTRIAN/
BICYCLE COMBINED
SIDEWALK WIDTH
SHALL BE 8'.

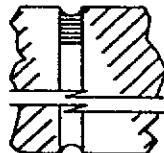
T = 6" WITH MOUNTABLE CURB & GUTTER OR WHERE
VEHICLE TRAFFIC WILL CROSS THE SIDEWALK. IN AREAS
WHERE VEHICLE TRAFFIC WILL NOT CROSS THE SIDEWALK
"T" MAY BE 4".



CONTRACTION OR
WEAKEN PLANE JOINT

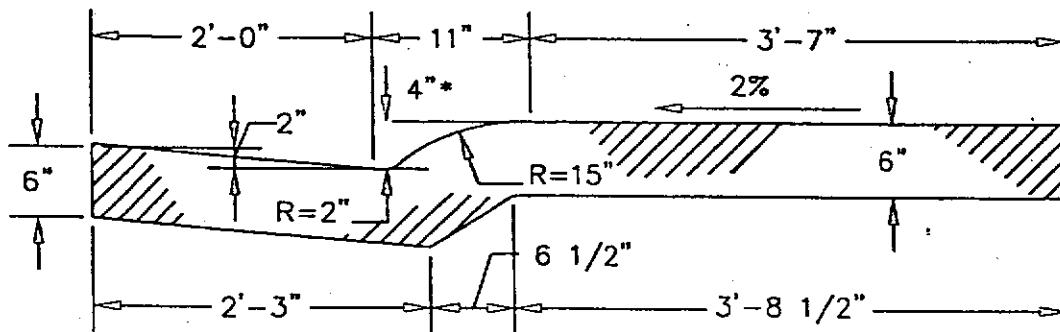


MOUNTABLE CURB AND GUTTER



EXPANSION JOINT
(SEE SP31)

* FOR RURAL STREETS, THIS DIMENSION
SHALL BE 5":



COMBINATION CURB, GUTTER AND SIDEWALK

ADOPTED
7/8/99

4" MOUNTABLE CURB, GUTTER & WALK
SIDEWALK & CONSTRUCTION JOINTS

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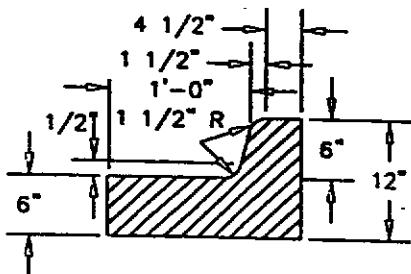
Revised: _____

Teller County

Drawing No.

SP1

MEDIAN CURB & CUTTER (SPILL)

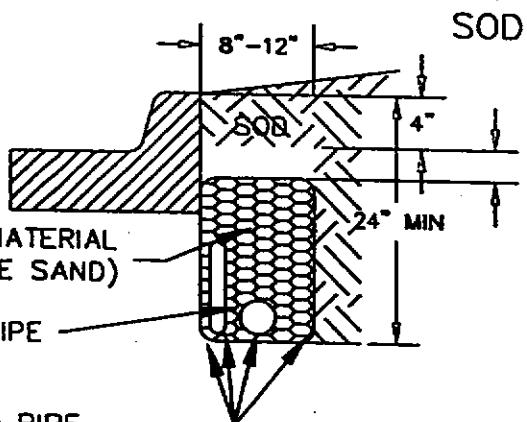
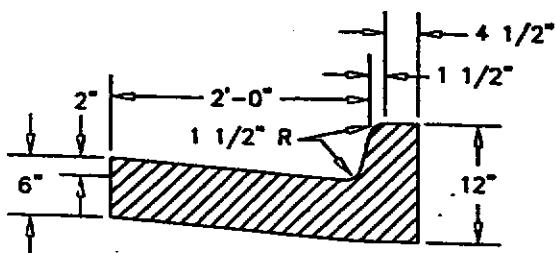


PLEASE SEE SP. 37
TRENCH DRAIN DETAIL

CLASS C FILTER MATERIAL
(NO CONCRETE SAND)
4" PERFORATED PVC DRAIN PIPE
(SEE NOTE 1)
OR

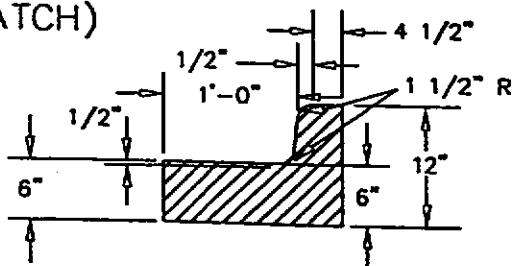
EQUIVALENT OVAL PERFORATED PIPE
(EQUIV. OVAL PERF. PIPE MUST BE
ACCEPTED BY THE COUNTY ENGINEER
IN WRITING) (SEE NOTE 1)

VERTICAL CURB AND GUTTER

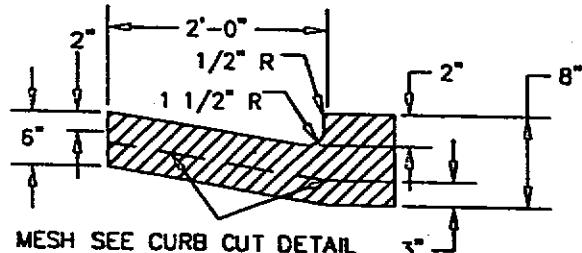


TO MAINTAIN THE
INTEGRITY OF THE
FILTER CLOTH, UP
TO 6" (MAX) OF
"SQUEEGEE" MAY BE
USED TO PREVENT
POP-UP SPRINKLER
HEADS FROM
PENETRATING THE
FILTER CLOTH.

MIRAFI 140N FILTER CLOTH OR EQUIVALENT.
FILTER CLOTH MUST WRAP BOTH THE PIPE
AND THE ENTIRE TRENCH.

MEDIAN CURB & GUTTER
(CATCH)

TYPICAL CURB & GUTTER AT DRIVEWAY



MESH SEE CURB CUT DETAIL

NOTES:

1. The 4" (or equivalent oval) drain pipe will be connected to a store drainage system to create positive drainage runoff.
2. If a sidewalk is placed behind the curb but is not placed monolithically, a silicone base sealer must be applied between the sidewalk and the curb.

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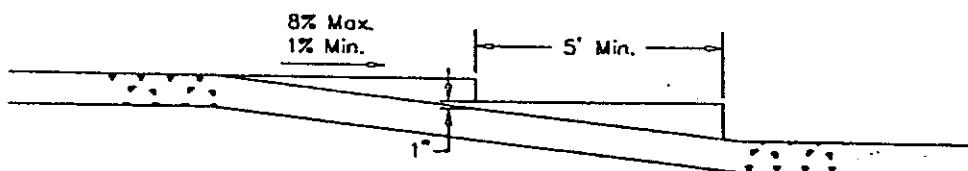
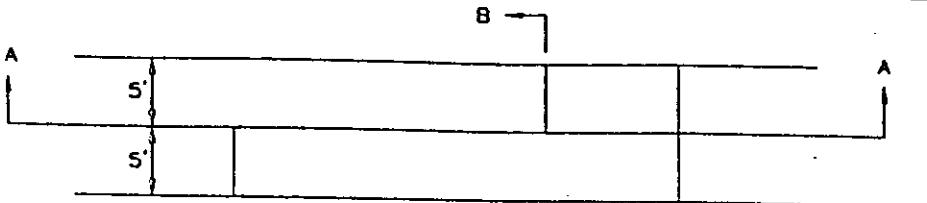
CURB, GUTTER, WALK, VERTICAL CURB,
& TRENCH DRAIN

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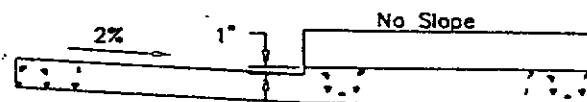
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Drawing No.
SP2

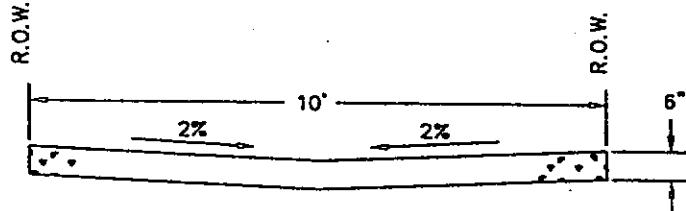
Teller County



SECT. A-A



SECT. B-B



TYPICAL SECTION

NOTES:

1. The use of this pedestrian walkway will normally not be allowed on public walkways. It is intended to show how steps and handicap ramps will be used in conjunction with each other.
2. The concrete walkway shall be the full width of the tract.
3. The longitudinal slope shall not be less than 1% for terrain exceeding 6% but less than 18%. A combination of step and landing can be incorporated into the left side of the walkway (facing downhill) in such a manner as to match grade with existing terrain as closely as is possible. Grades in excess of 18% shall require a special design to be approved by the Douglas County Engineer.
4. The construction plans for the development shall include complete details for the walkway.
5. The walkway shall not be used for drainage overflow.
6. Contraction or weakened plain joint at 10' intervals and expansion joint per sidewalk construction.

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7/8/99

PEDESTRIAN WALKWAY
RAMP & STEP DETAILS

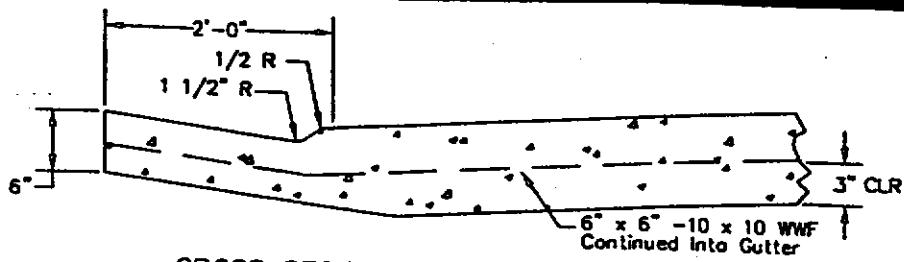
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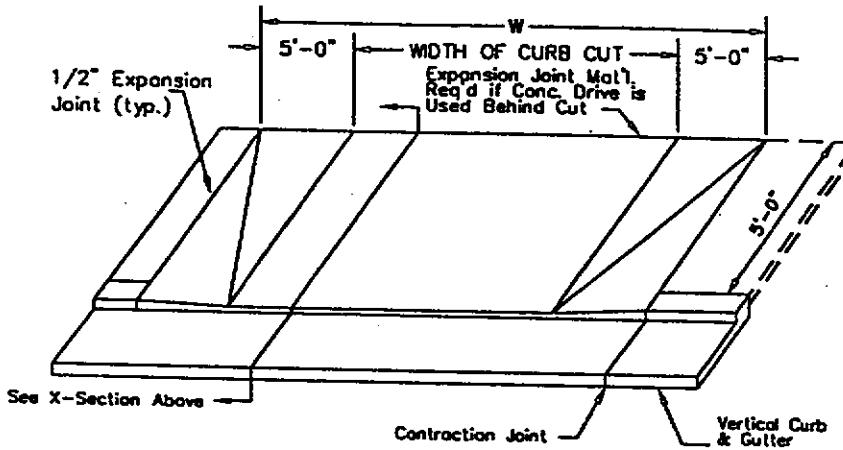
Drawing No.

SP3

Teller County



CROSS SECTION THROUGH CURB CUT



NOTES:

1. Back of curb cut extends to back of walk or back of bicycle path. If no walk is present extend back of curb cut to 5'0" behind flowline.
2. County shall approve location of curb cut before construction.

Width of Curb Opening (W).

Note: Curb openings of 30' or more must be constructed at radius curb return.

WIDTH OF CURB OPENING (From Table 13.1)

	RESIDENTIAL SF MF	SERVICE COMMERCIAL STATION		INDUSTRIAL
		IF ALLOWED UNDER 13.2.3.c.	DESIGN AS COLLECTOR	
MAJOR ARTERIAL				
MINOR ARTERIAL				
MAJOR COLLECTOR	N/A	30-35	30-40	30-40
MINOR COLLECTOR	N/A	30-35	30-40	30-40
LOCAL	(**)	30-35	30-40	30-40

NOTE: (1) Curb openings of 30' or more must be constructed as a radius curb return.
 (2) If a radius curb return is used, the width of the allowed driveway is measured by NOT counting the two (2) 20' radii, or in other words, it is measured at the throat extended to flowline.

** FOR SINGLE FAMILY RESIDENTIAL ACCESS TO LOCAL STREETS:

LOCAL (URBAN - with curb-gutter-sidewalk) = 16' to 30'

LOCAL (URBAN - without curb-gutter-sidewalk) = 20' to 30'

LOCAL (RURAL) = 20' to 30'

ADOPTED
7/8/99

CURB, GUTTER & WALK
CURB CUTS

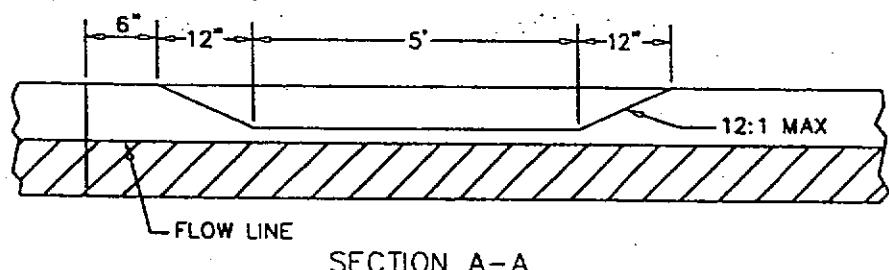
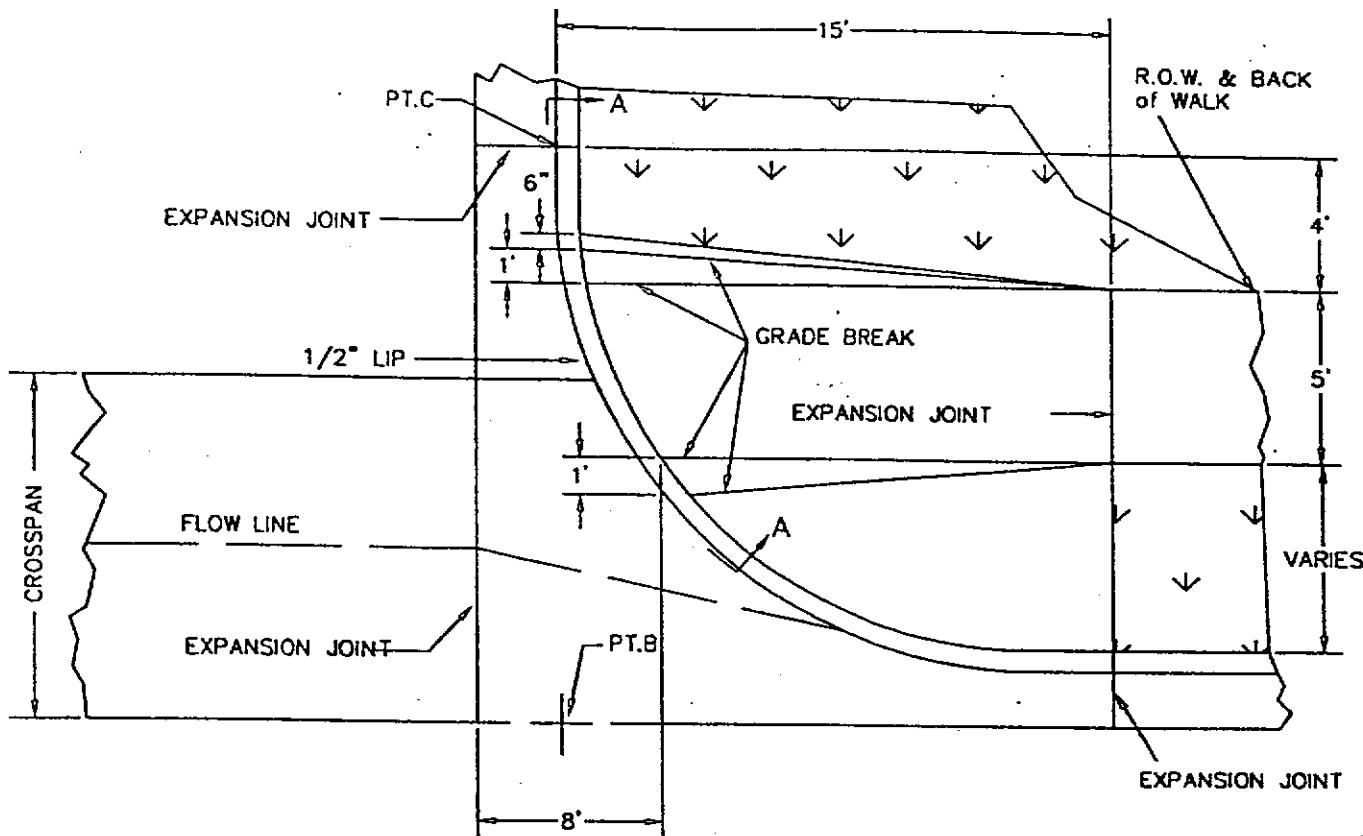
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Drawing No.

SP4

Teller County



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7/8/99

DRIVEWAY RETURNS OPPOSITE MAJ. ART.
MEDIAN OPENINGS 5.0' DETACHED WALK

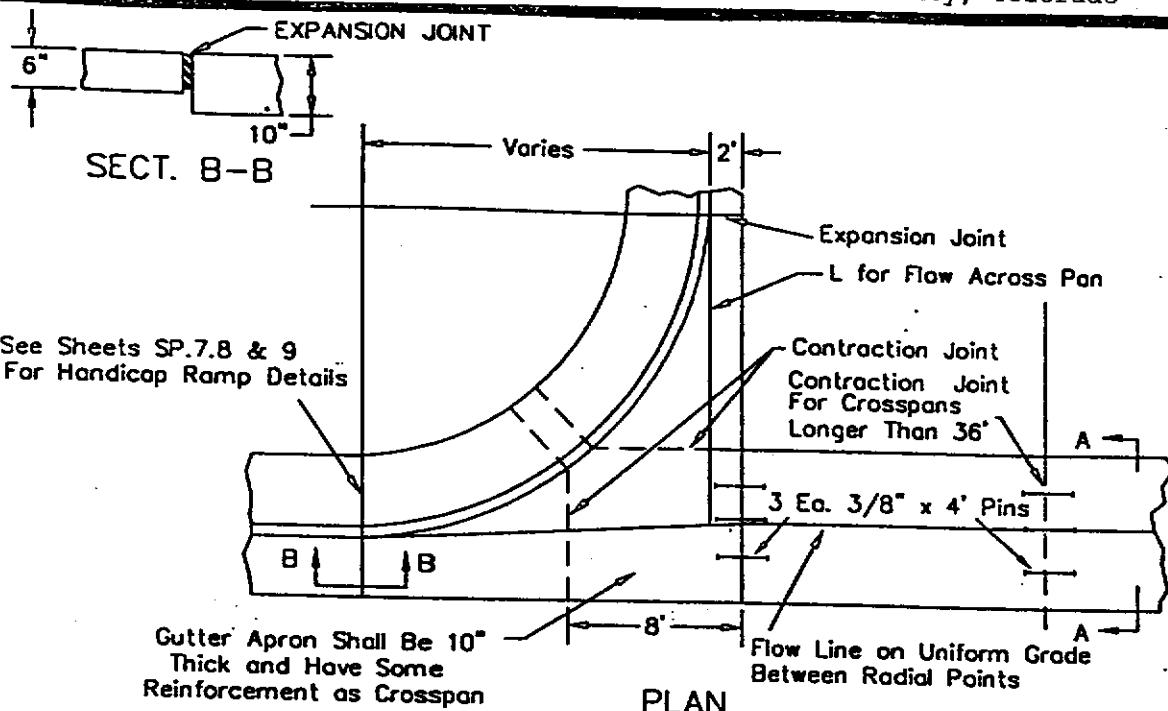
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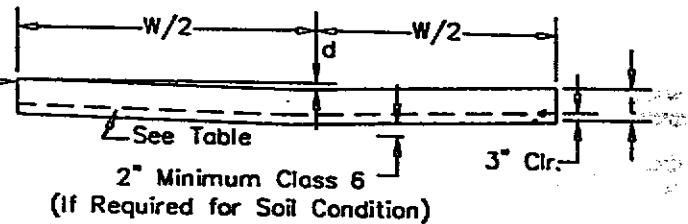
Drawing No.

SP5

Teller County



Crown Shall Be Transitioned Out Of the Street. See Section 4.3 of These Specifications. No Crown Exists at The Crosspan

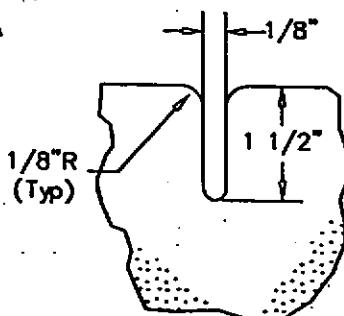


Width (W)	Depth (D)	Thickness (T)
6'	1-1/2"	8"
8'	2"	10"
10'	2-1/2"	10"

PAN LENGTH	WIRE MESH CALLED FOR	REPLACE WITH REBAR HAVING END AREA OF
36'	6x6 - 4.4	.10 Sq. In. Per Ft. (#4 @ 18" E.W.)
46'	6x6 - 2.2	.13 Sq. In. Per Ft. (#4 @ 18" E.W.)
64'	6x6 - 0.0	.20 Sq. In. Per Ft. (#4 @ 18" E.W.)
84'	6x6 - 2.2	.26 Sq. In. Per Ft. (#4 @ 18" E.W.)

NOTE:

Square returns and pons shall use wire mesh as shown in the table above. When wire mesh is not available, steel reinforcing bar may be substituted.



CONTRACTION OR WEAKENED PLANE JOINT

* 1/4 D if Templates Are Not Used

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7/8/99

CROSSPANS
TYPE 1

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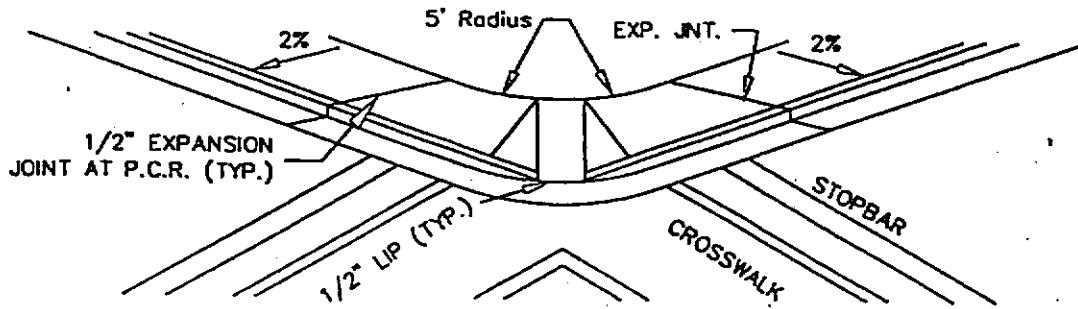
Revised: _____

Teller County

Drawing No.

SP6

1. In accordance with CRS43-2-107(2), 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, athletic stadiums, and at "T" intersections directly opposite either curb return.
2. All work shall be done in accordance with the standard specifications of Douglas County.
3. Sidewalks shall be ramped where a driveway curb is extended across the walk.
4. Details shown in this plan shall apply to all construction or reconstruction of streets, curbs or sidewalks.
5. Special designs are required when grades are over 4% or where the angle of the intersection is less than 75° or more than 105°.
6. In new construction, ramp and curb may be poured monolithically.
7. Ramp and wings shall be poured monolithically.
8. Minimum width of ramps shall be 4 feet and ramp slopes shall not be steeper than 12:1.
9. Maintain back of walk elevation at 2.0% above top of curve.
10. concrete for sidewalk ramps shall be Class "A".
11. Normal gutter flow line and profile shall be maintained through the ramp area.
12. Ramp surface shall have a coarse broom finish with striations perpendicular to the direction of ramp slope.
13. A 1/2" expansion joint shall be required where the concrete ramp joins any rigid pavement or structure.
14. Drainage structures shall not be placed in line with ramps, location of the ramp shall take precedence over location of the drainage structure, except where existing drainage structures are being utilized in the new construction.
15. All pavement marking shall be in accordance with the latest edition of the MUTCD for streets and highways.



ISOMETRIC VIEW

ADOPTED
7/8/99CURB RAMPS FOR
PHYSICALLY HANDICAPPED

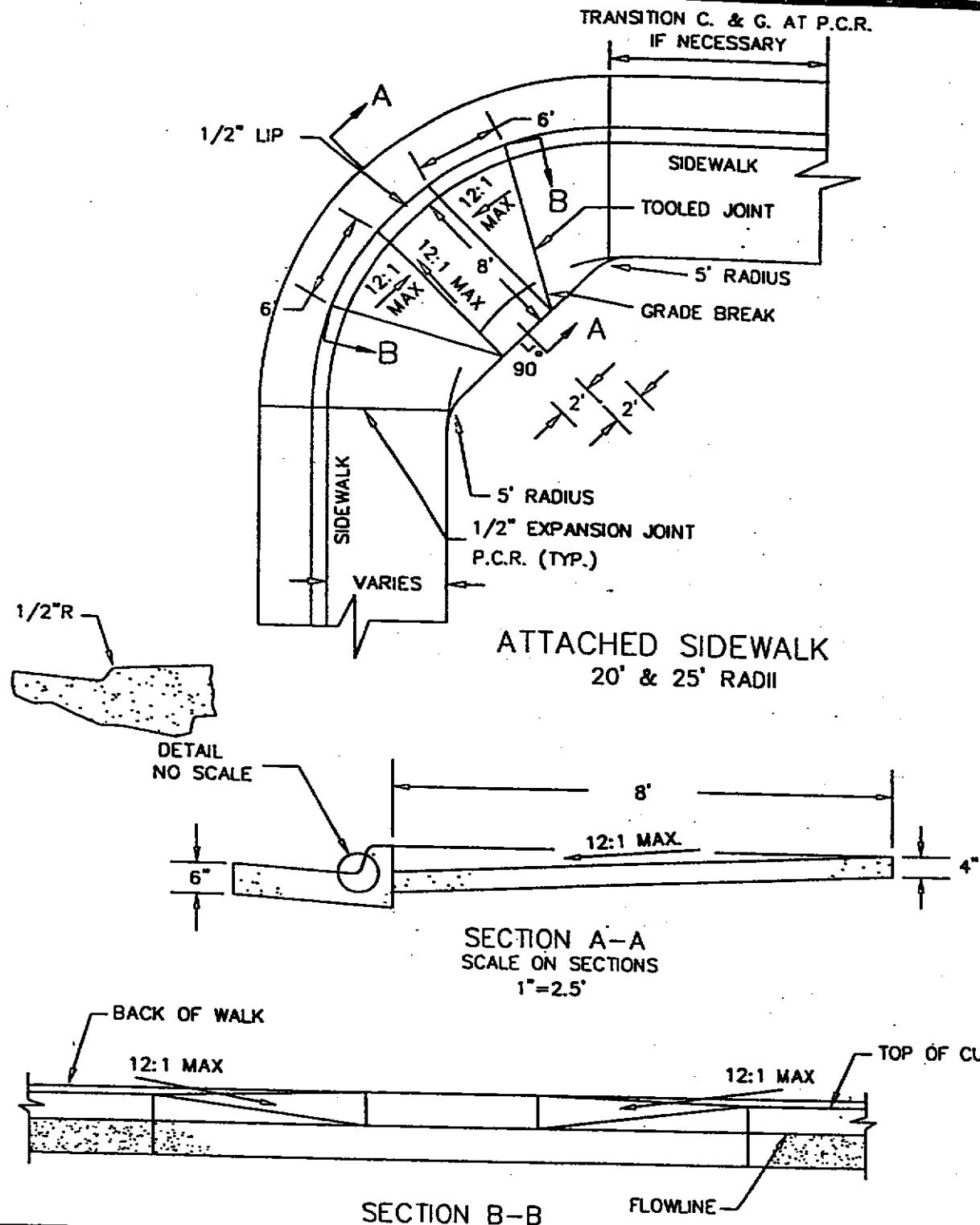
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Teller County

Drawing No.

SP7



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7/8/99

CURB RAMPS FOR
PHYSICALLY HANDICAPPED

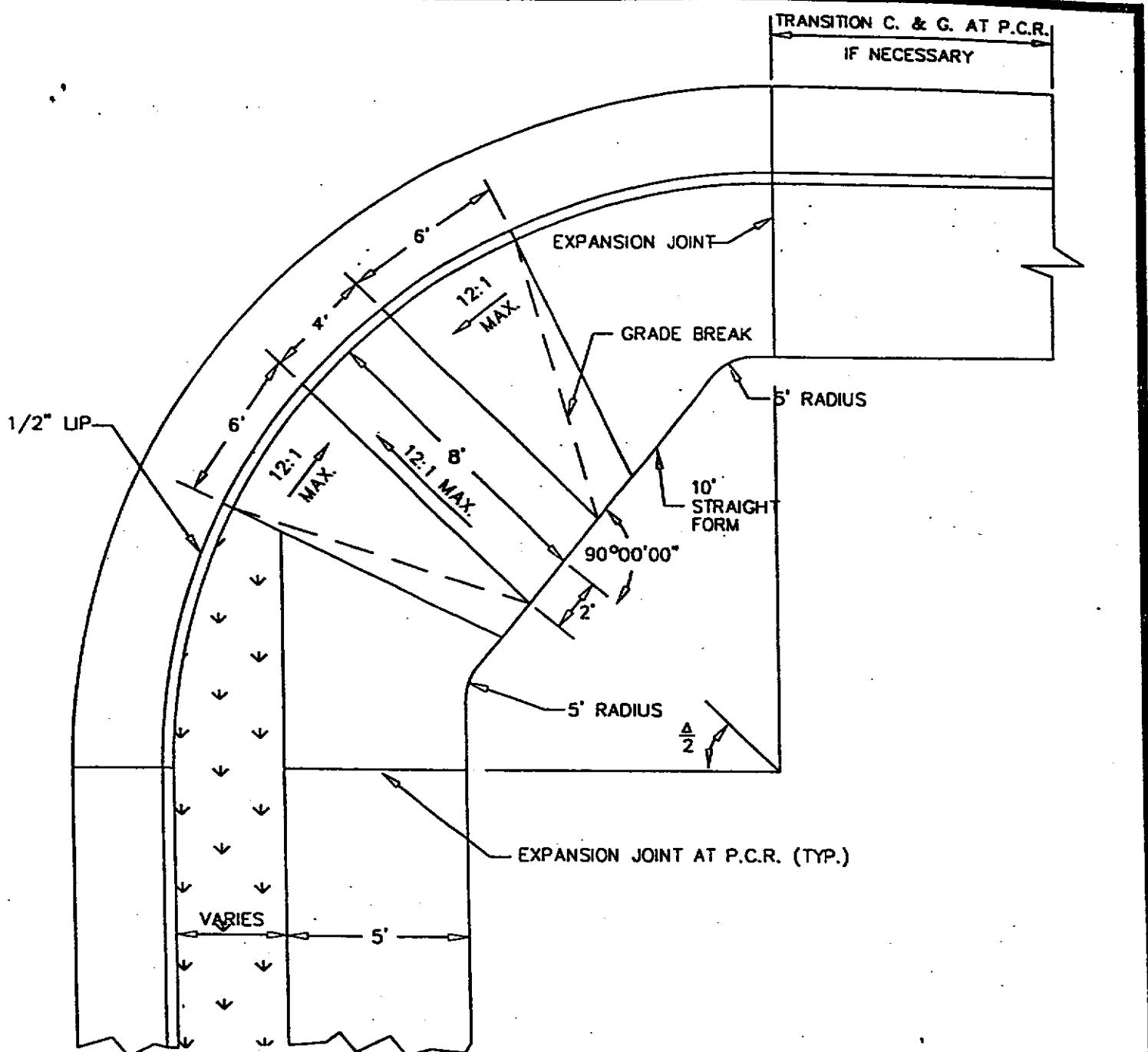
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Revised: _____

Teller County

Drawing No.

SP8



DETACHED WALK TO ATTACHED WALK
25' RADIUS OR GREATER

ADOPTED
7/8/99

CURB RAMPS FOR
PHYSICALLY HANDICAPPED

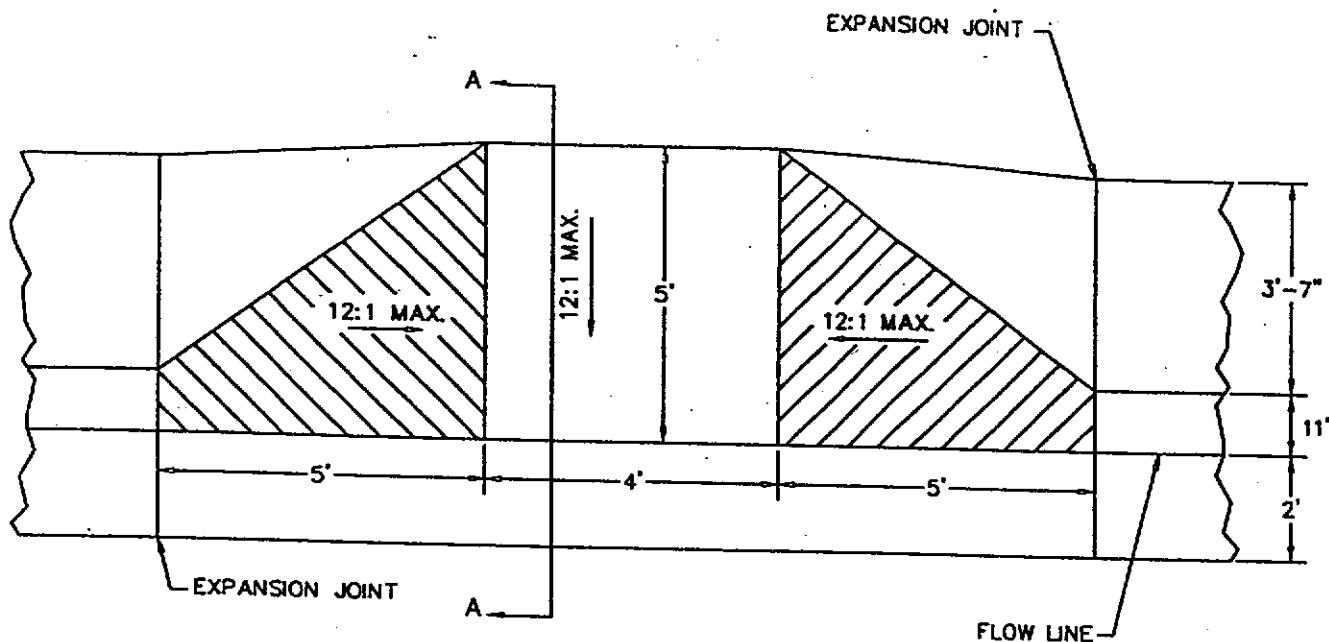
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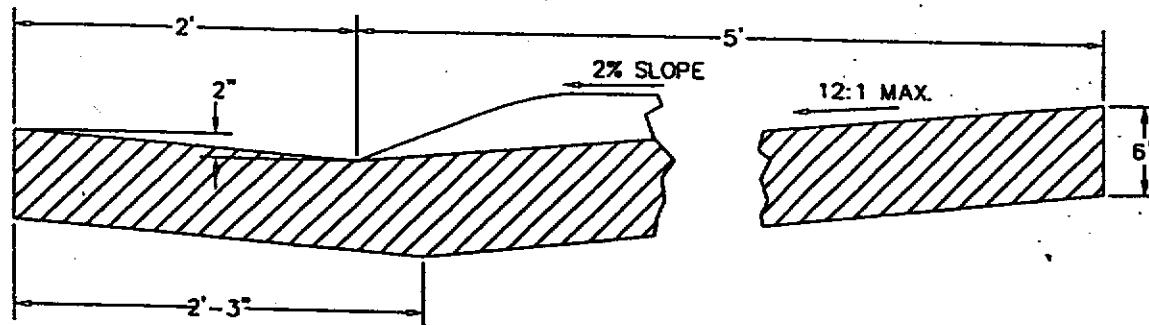
Teller County

Drawing No.

SP9a



NOTE:
FOR LOCAL (36' FL/FL) STREETS ONLY.



SECTION A-A

ADOPTED
7/8/99

MID-BLOCK RAMP FOR PHYSICALLY HANDICAPPED
ON LOCAL STREETS

Issued: _____

Revised: _____

Teller County

Drawing No.

SP9b

DEPRESS RING 1/4 TO 1/2 INCH BELOW
ADJACENT FINISHED STREET GRADE

NO. 3 BAR HOOP AROUND
RING AS SHOWN

SLOPE UP TO MATCH
FINISHED PAVEMENT

STRAIGHT CUT
AROUND RING

FINAL ASPHALT LIFT
OVERLAY OR GRADE
ADJUSTMENT

CONCRETE GRADE RING OR
BRICK AND MORTAR TO
MATCH SLOPE OR
FINISHED GRADE

EXISTING BASE COURSE

GRADE RING OR
BRICK AND MORTAR

DURACAL AND SAND (50:50)
OR OTHER APPROVED HIGH
STRENGTH GROUT

MANHOLE

NOTES:

ADEQUATE BARRICADES SHALL BE PLACED AND MAINTAINED UNTIL THE
COLLAR ATTAINS A COMPRESSIVE STRENGTH OF 3000PSI.

DURACAL GROUT SHALL BE A MIXTURE OF 100 LBS. DURACAL, 26 LBS.
WATER (3.12 GAL.), AND 100 LBS. OF SAND CONFORMING TO ASTM C-35.

MANHOLES SHALL NOT BE LOCATED IN CROSSPANS OR GUTTERS.

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7/8/99

MANHOLE RING AND COVER
ADJUSTMENT

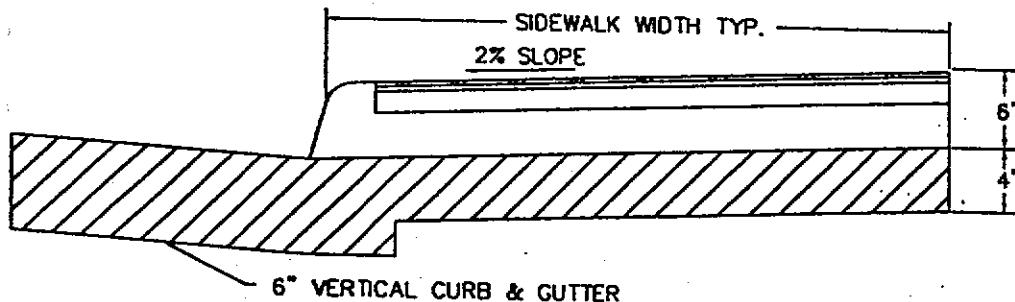
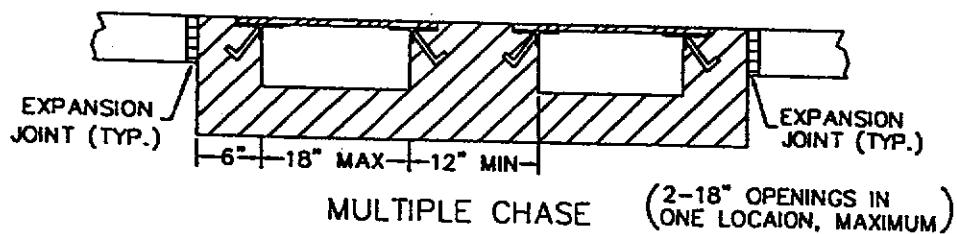
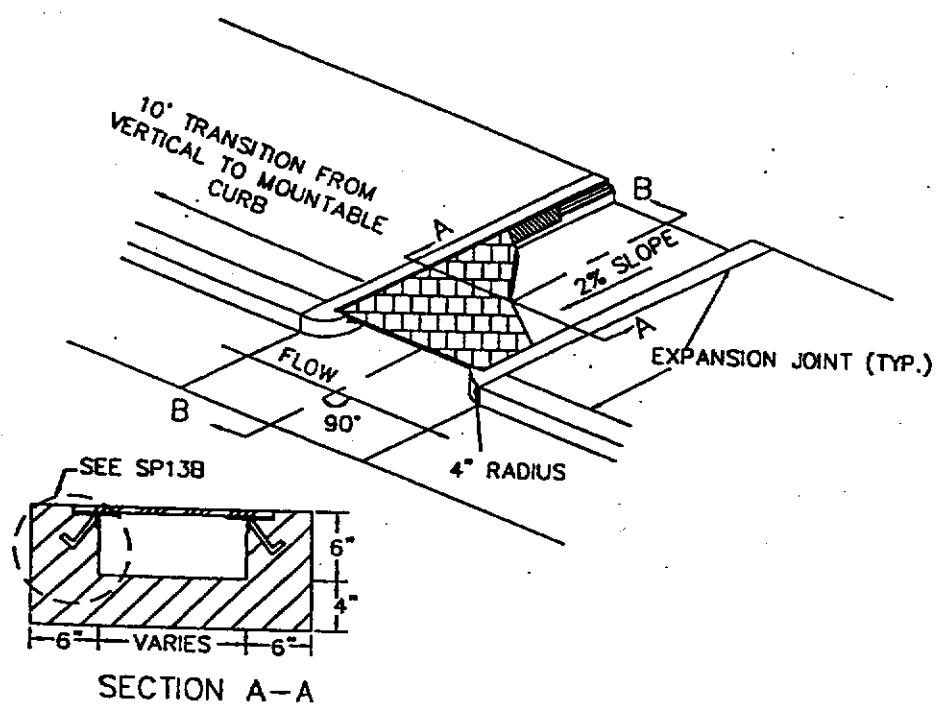
Issued: _____

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Teller County

Drawing No.

SP12



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7/8/99

SIDEWALK CURB CHASE

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Teller County

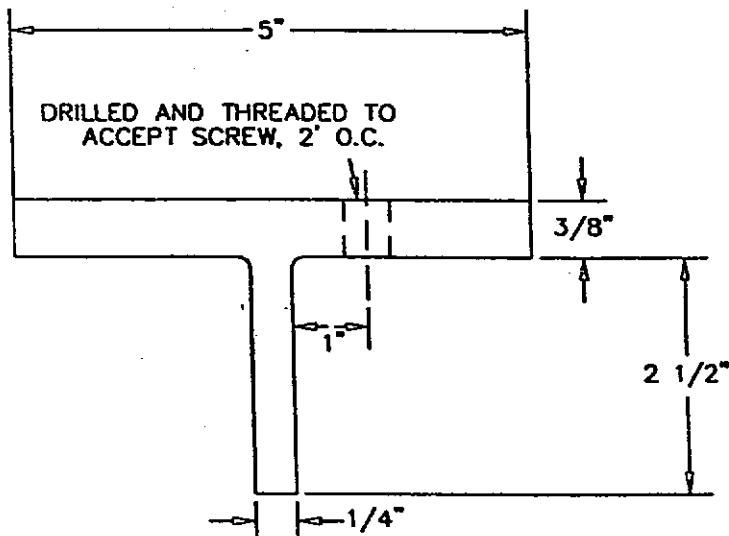
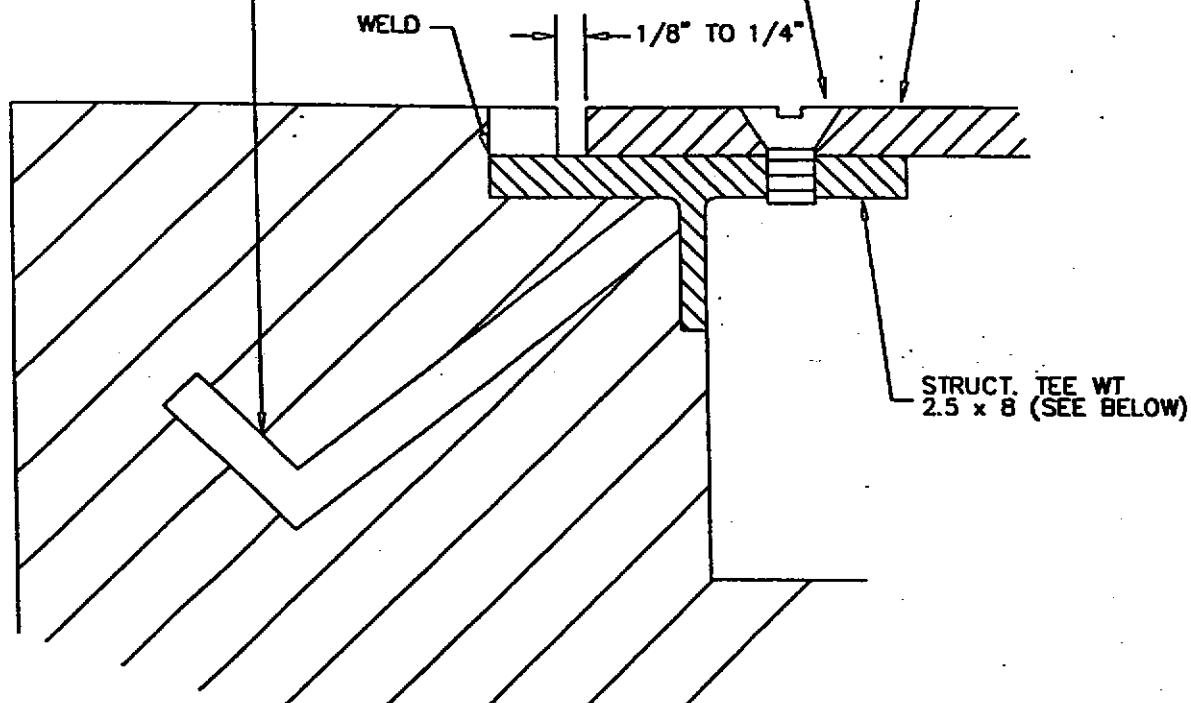
Drawing No.

SP13a

#3 BAR 6" LONG WELDED
TO STRUCT. TEE AT 18"
O.C. EACH SIDE (1/2"
ANCHOR BOLT MAY BE USED)

1/2" x 1" SCREW
(SEE NOTE 1)

ELECTRO-GALVANIZED
NON-SLIP RAISED PATTERN
STEEL TREAD PLATE. (FOR
THICKNESS SEE CHART
BELOW)



WIDTH OF OPENING	THREAD PLATE THICKNESS
6"	3/8"
6"-12"	1/2"
12"-18"	5/8"

NOTES:

1. STARHEAD SCREW BRASS OR
ELECTRO-GALVANIZED FINISH
(RECESS HEAD)

ADOPTED
7/8/99

SIDEWALK CURB CHASE

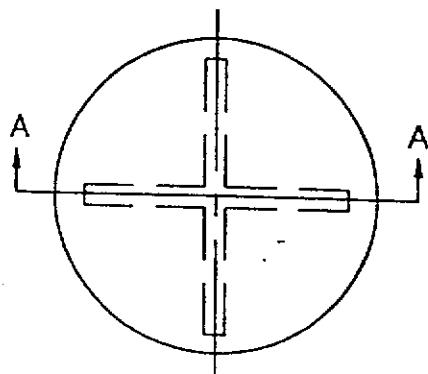
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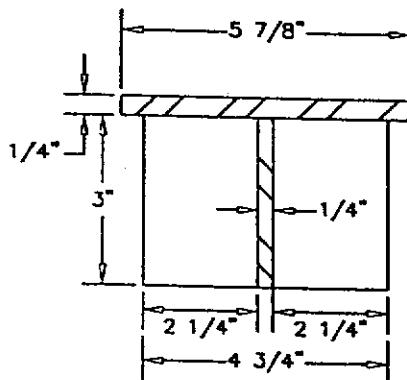
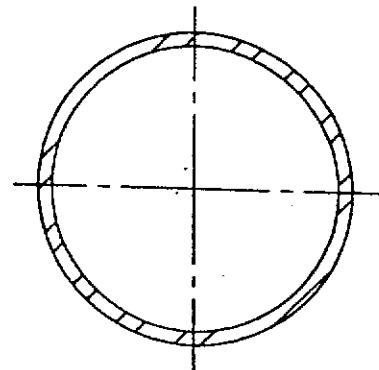
Teller County

Drawing No.

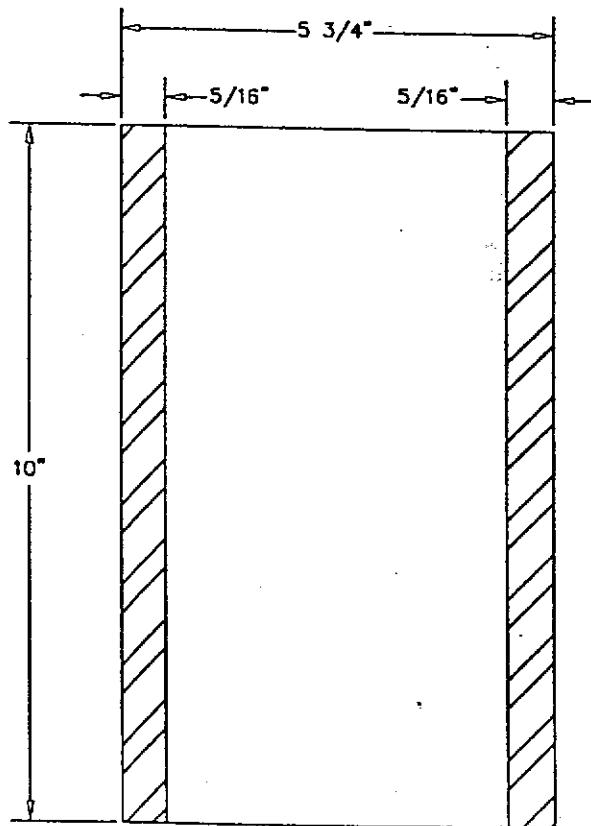
SP13b



TOP



SECTION A-A



NOTE:

TOP OF BOX SHALL BE DEPRESSED
1/4" TO 1/2" BELOW ADJACENT FINISHED
STREET GRADE.

LETTERS SHALL BE NOT LESS THAN
5/8" HIGH & RAISED 1/8" ABOVE SURFACE.

ALL FILLETS & ROUNDS RADIUS = 1/8".

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RANGE BOX

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Revised: _____

Teller County

Drawing No.

SP14a

The following notes are applicable to all roadway sections identified on the following pages (local, minor collector, major collector, minor arterial and major arterial), unless modifications are approved in writing by the Road and Bridge Director.

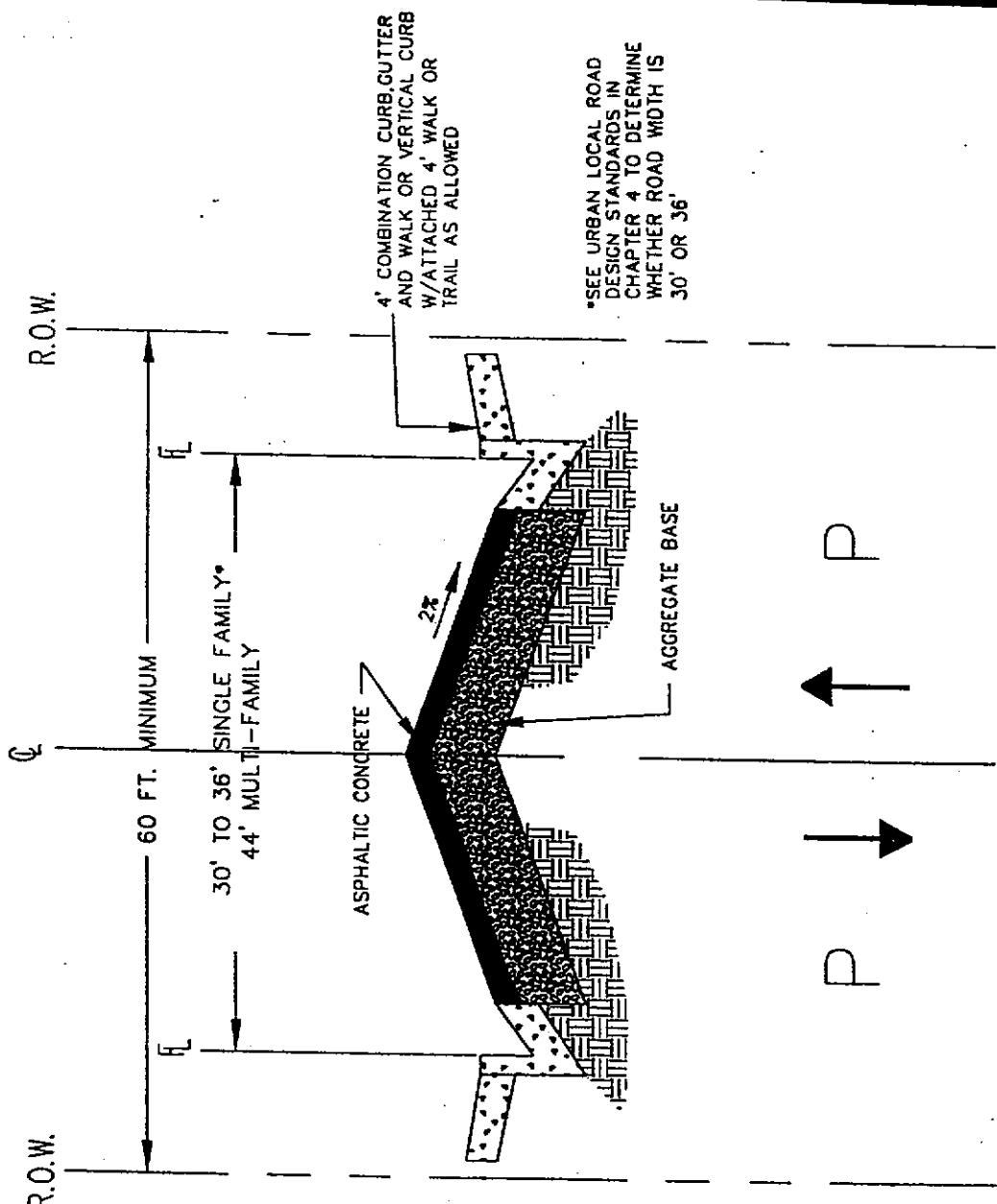
NOTES:

1. Gutters shall be at least 6" thick.
2. All combination curb, gutter and sidewalks to be 6" thick (min.). Sidewalks with vertical curb and gutter may be 4" thick.
3. Total pavement thickness to be determined by pavement design procedures in Section 5.4.
4. Placement, moisture and density control for subgrade, subbase and surfacing materials shall be in conformance with the requirements of Chapter 8 of the Roadway Design and Construction Standards.
5. Non-landscaped median islands shall be covered with an acceptable impermeable surface.
6. Arterial right turn accel/decel lanes can be eliminated, with inclusion of appropriate tapers, if the distance between intersecting streets and/or curb cuts is 1/2 mile or greater.

7. Legend

P = Parking Allowed
NP = No Parking Allowed
↑ = Laneage

ADOPTED 7/8/99	NOTES	Issued: _____
		Revised: _____
	Teller County	Drawing No. SP 15



ADOPTED
7/8/99

URBAN LOCAL
ROAD SECTION

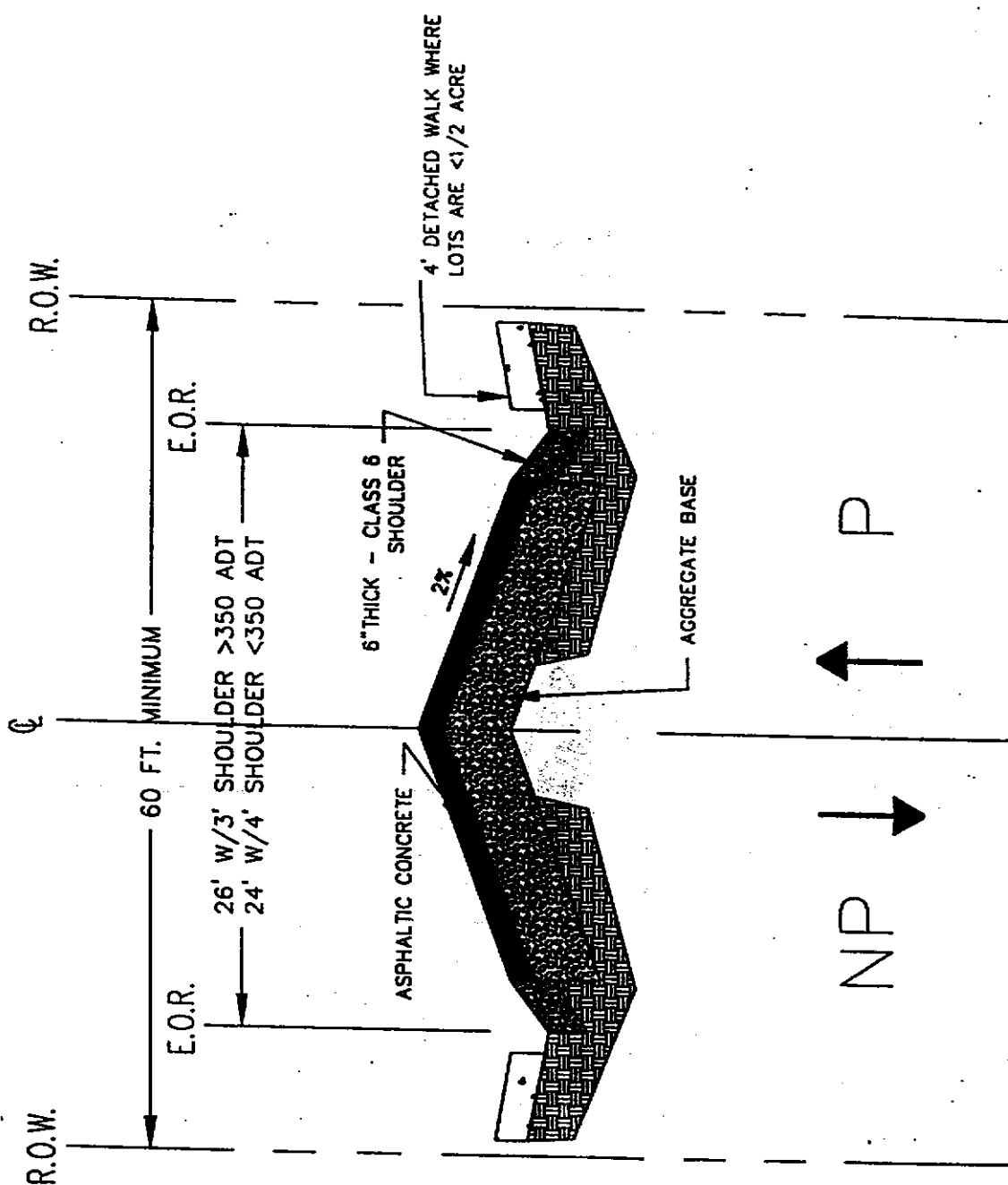
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Drawing No. _____

Teller County

SP 16a



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7/8/99

RURAL LOCAL
ROAD SECTION

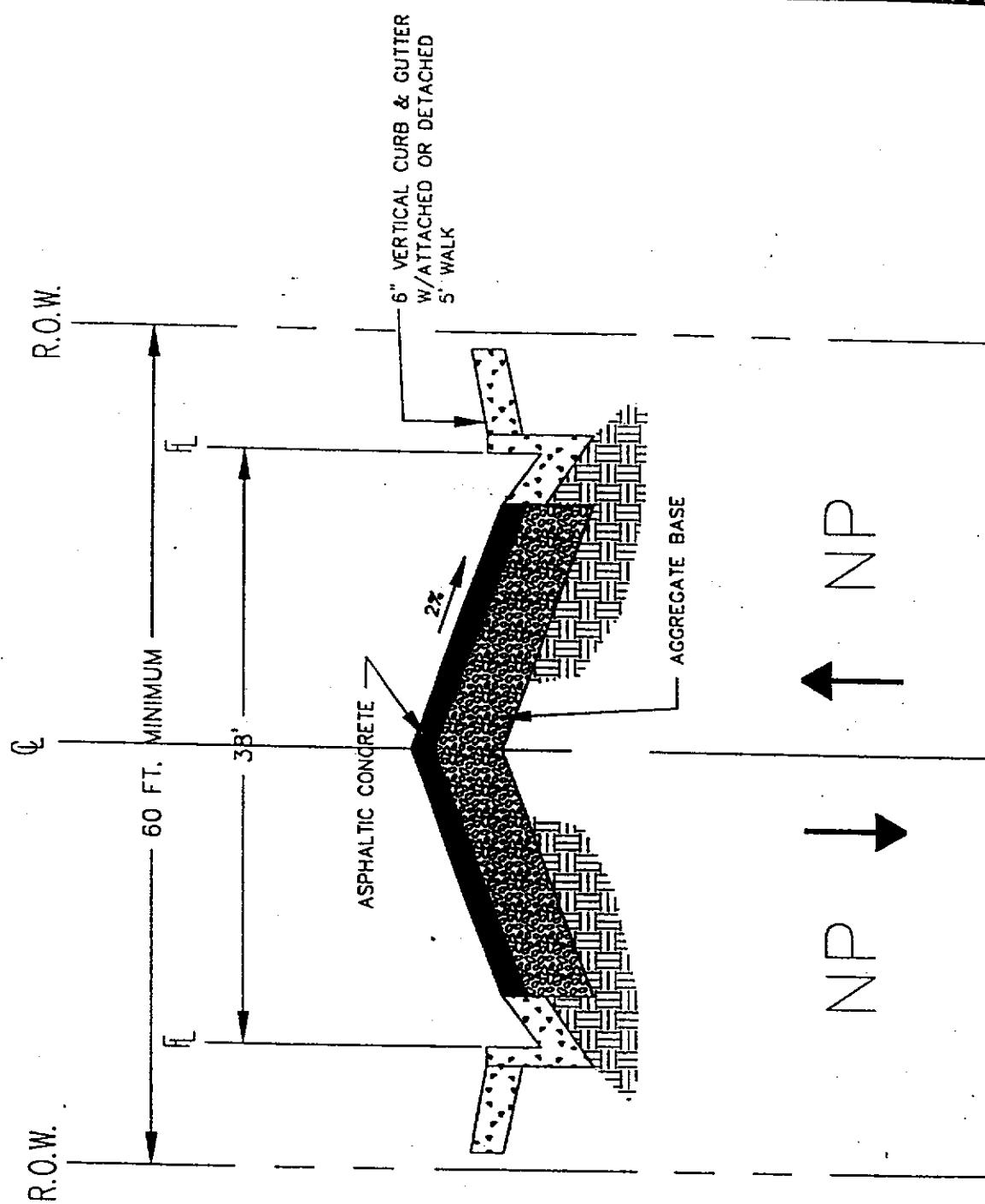
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Teller County

Drawing No.

SP 16b



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7/8/99

URBAN COLECTOR
ROAD SECTION

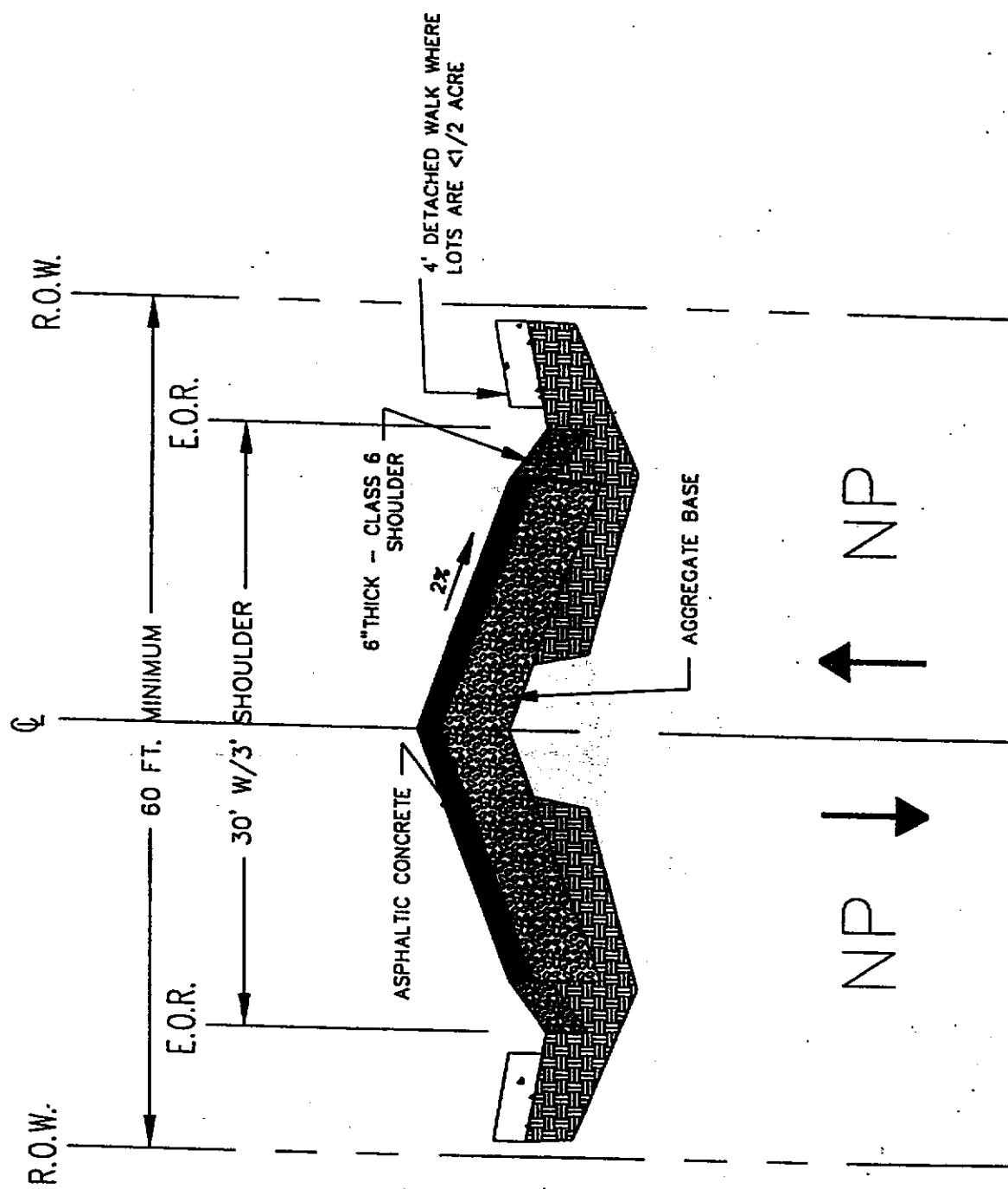
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Teller County

Drawing No.

SP 17a



ADOPTED
7/8/99

RURAL COLLECTOR
ROAD SECTION

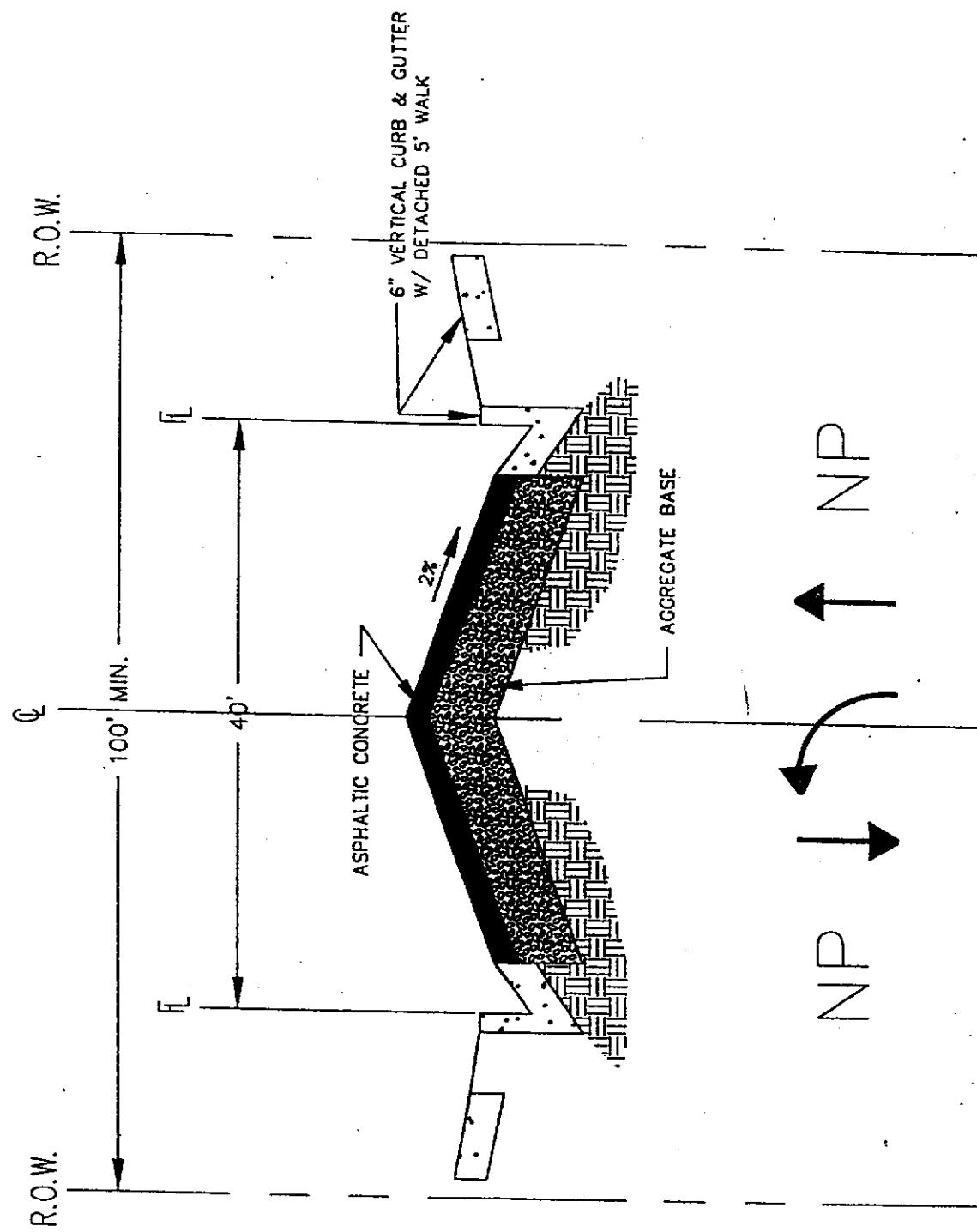
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Teller County

Drawing No.

SP 17b



ADOPTED
7/8/99

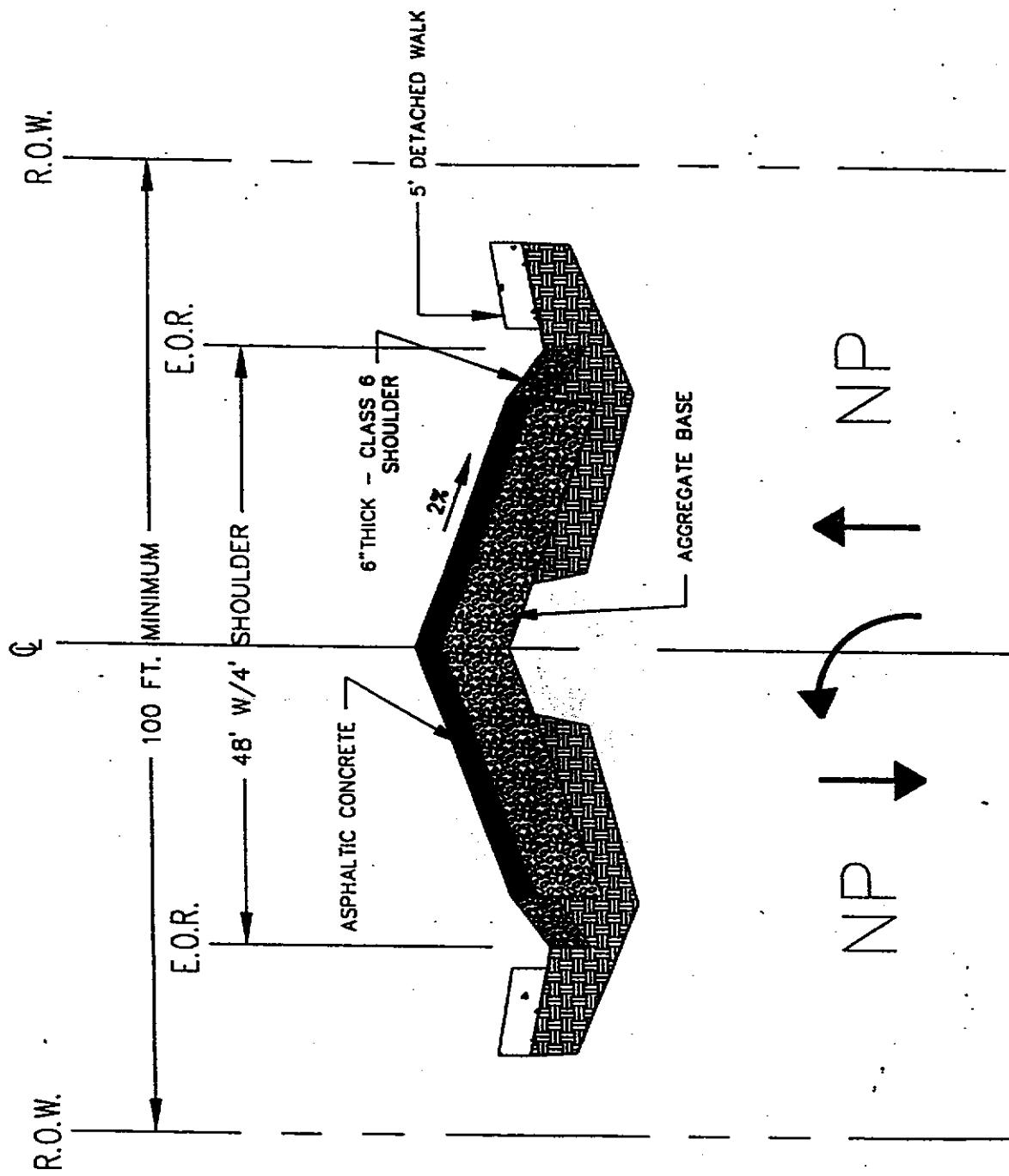
MINOR ARTERIAL
(2 LANE - URBAN AREA)

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Revised: _____

Teller County

Drawing No.
SP 18a



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MINOR ARTERIAL
(2 LANE - RURAL AREA)

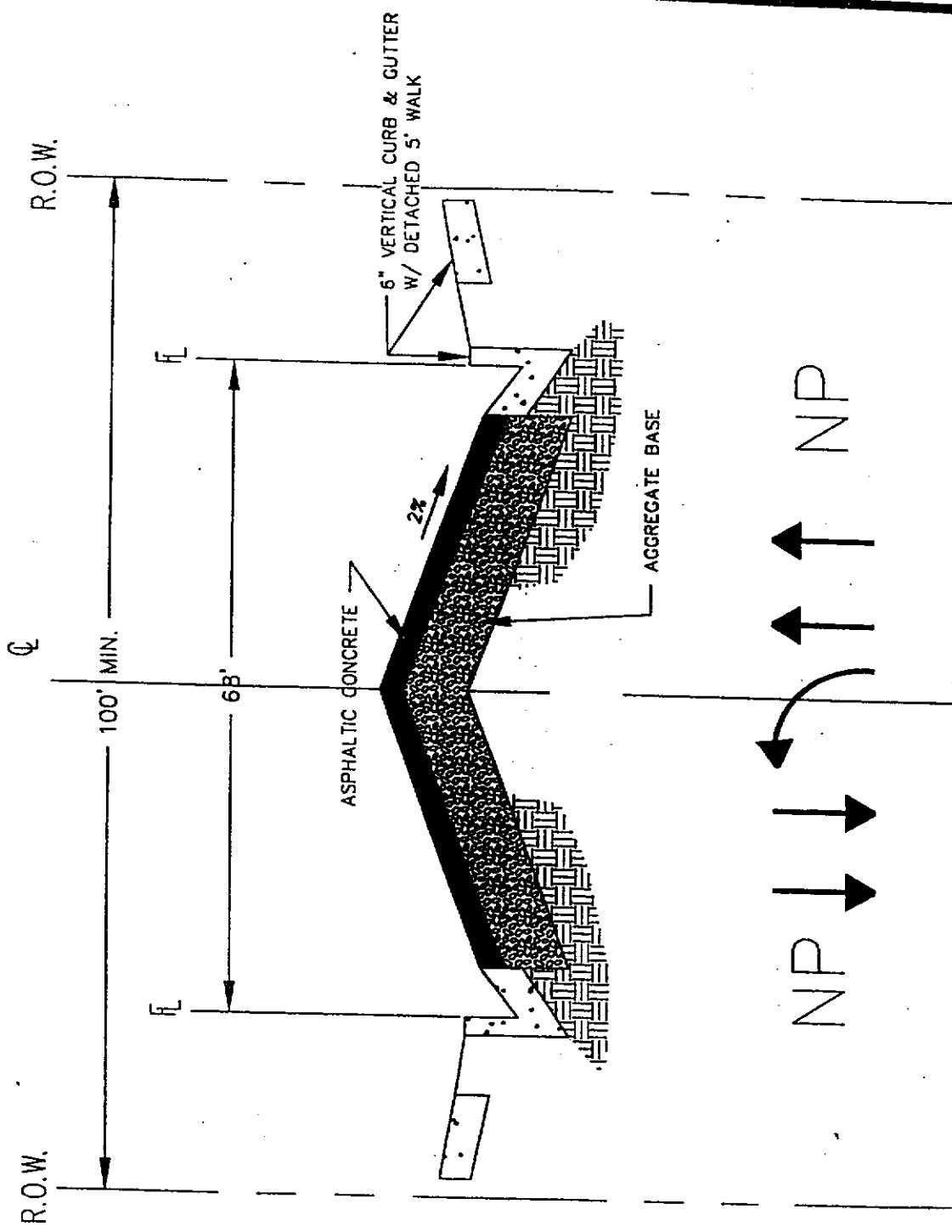
Teller County

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Drawing No.

SP 18b



ADOPTED
7/8/99

MINOR ARTERIAL
(4 LANE - URBAN AREA)

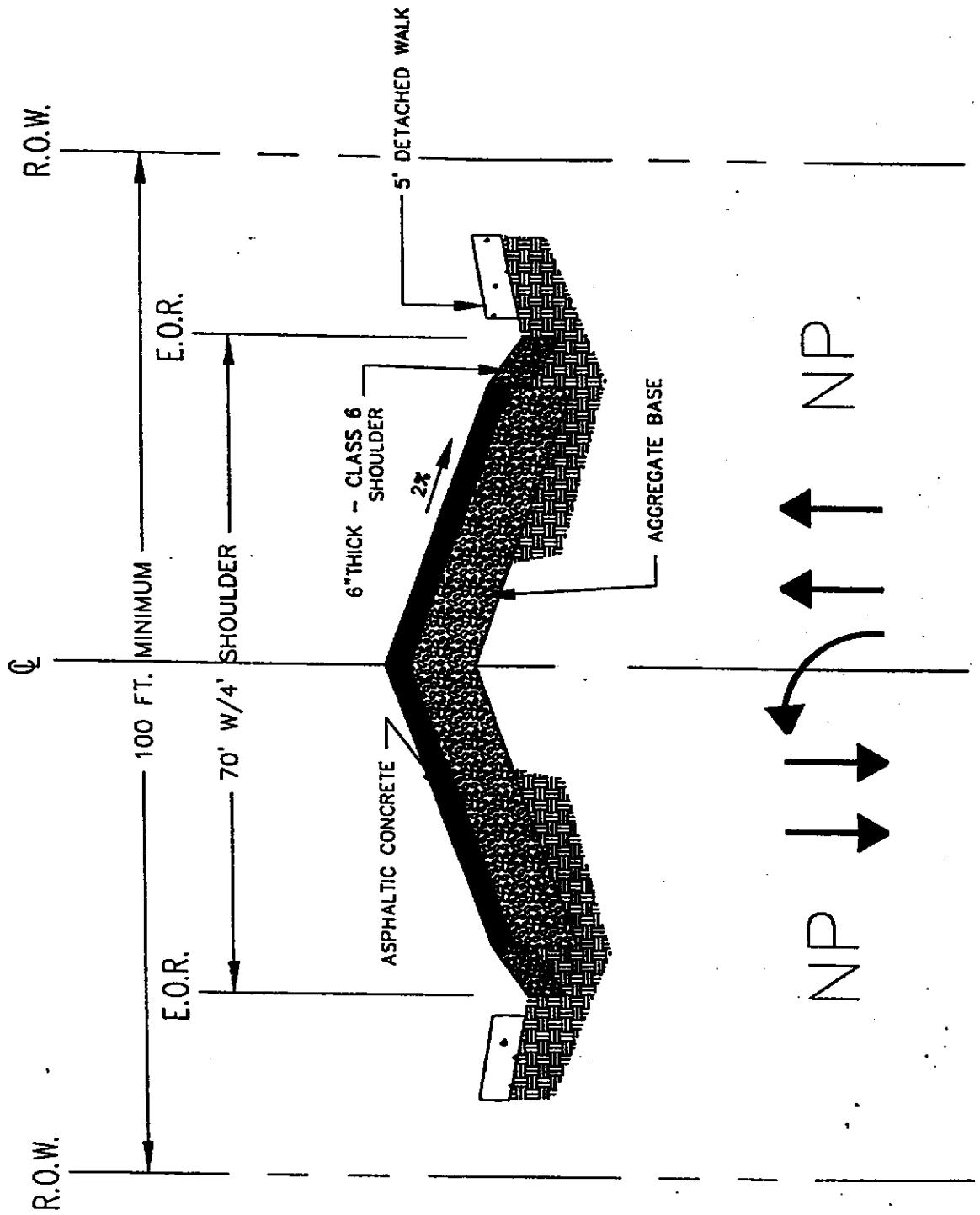
Teller County

Issued: _____

Revised: _____

Drawing No. _____

SP 19a



ADOPTED
7/8/99

MINOR ARTERIAL
(4 LANE - RURAL AREA)

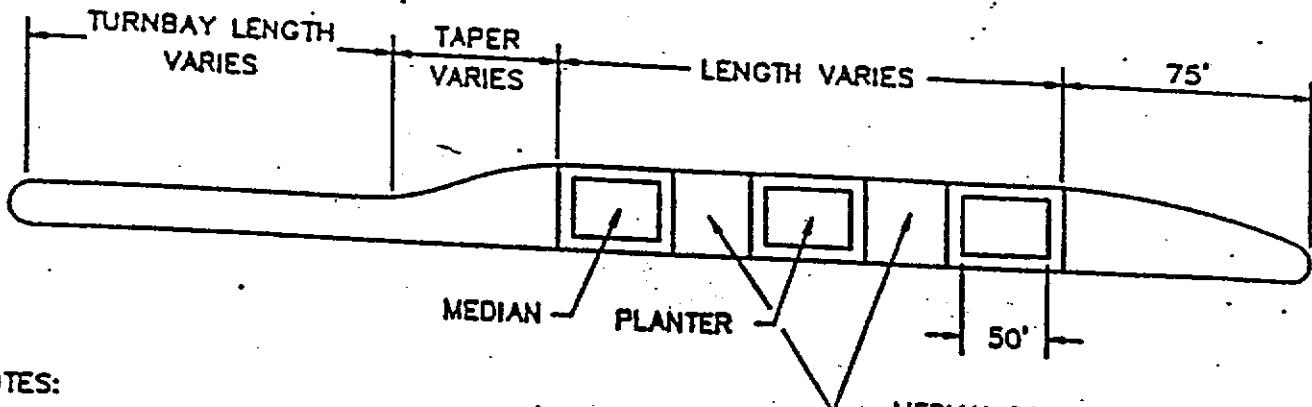
Issued: _____

Revised: _____

Teller County

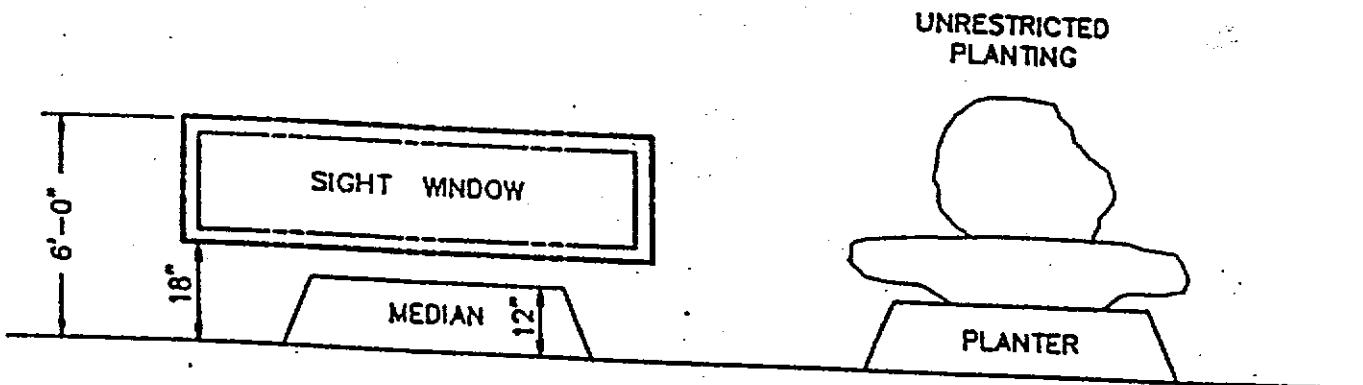
Drawing No.

SP 19b



NOTES:

1. RESTRICTED PLANTING - LOW SHRUBS AND GROUND COVER
2. PLANTERS SHALL BE 50' LONG.
3. PLANTERS SHALL BE SPACED TO PROVIDE SAFE SIGHT DISTANCE.



ADOPTED
7/8/99

MEDIAN PLANTER

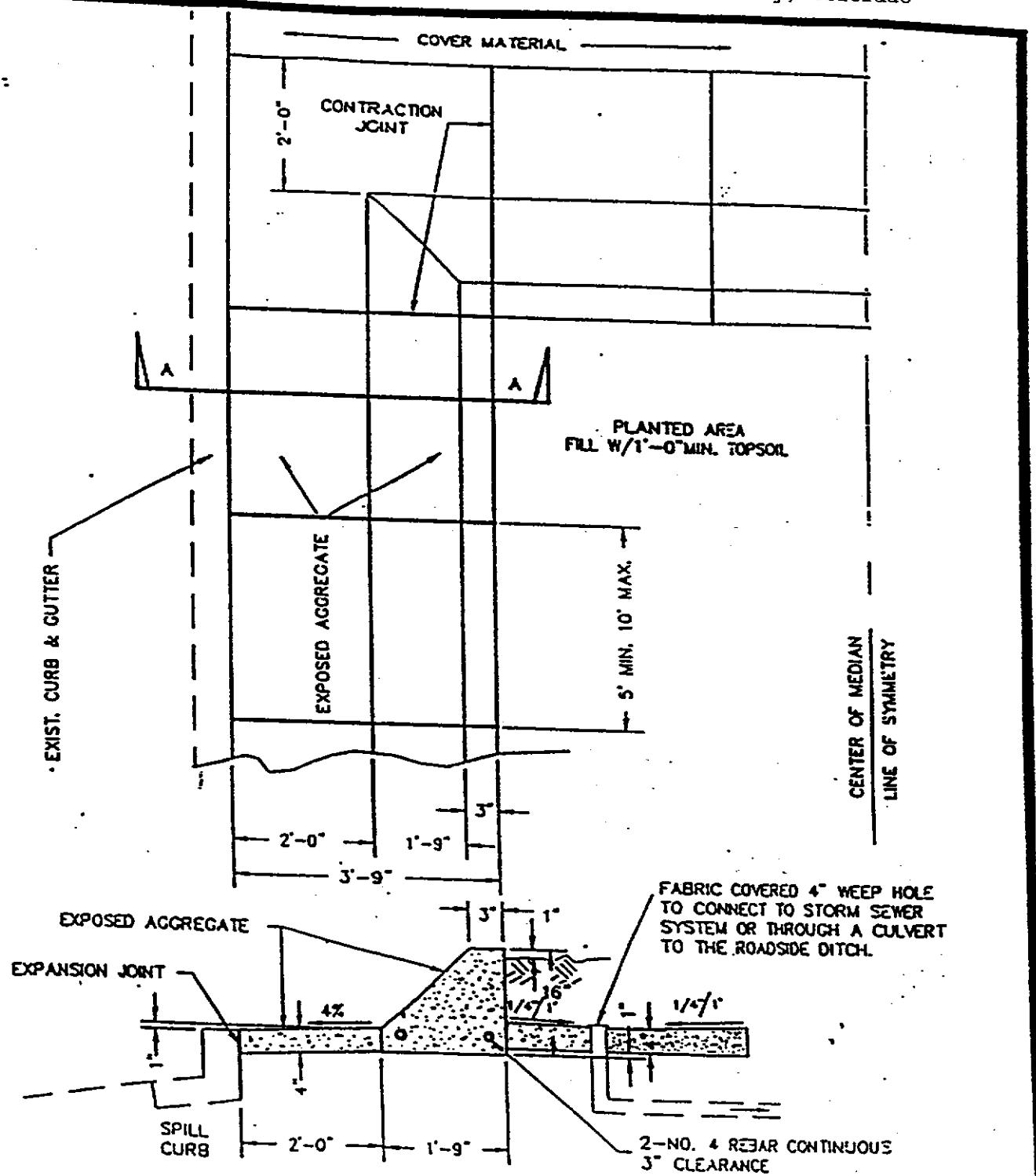
Issued: _____

Revised: _____

Drawing No. _____

SP 24

Teller County



MEDIAN PLANTER

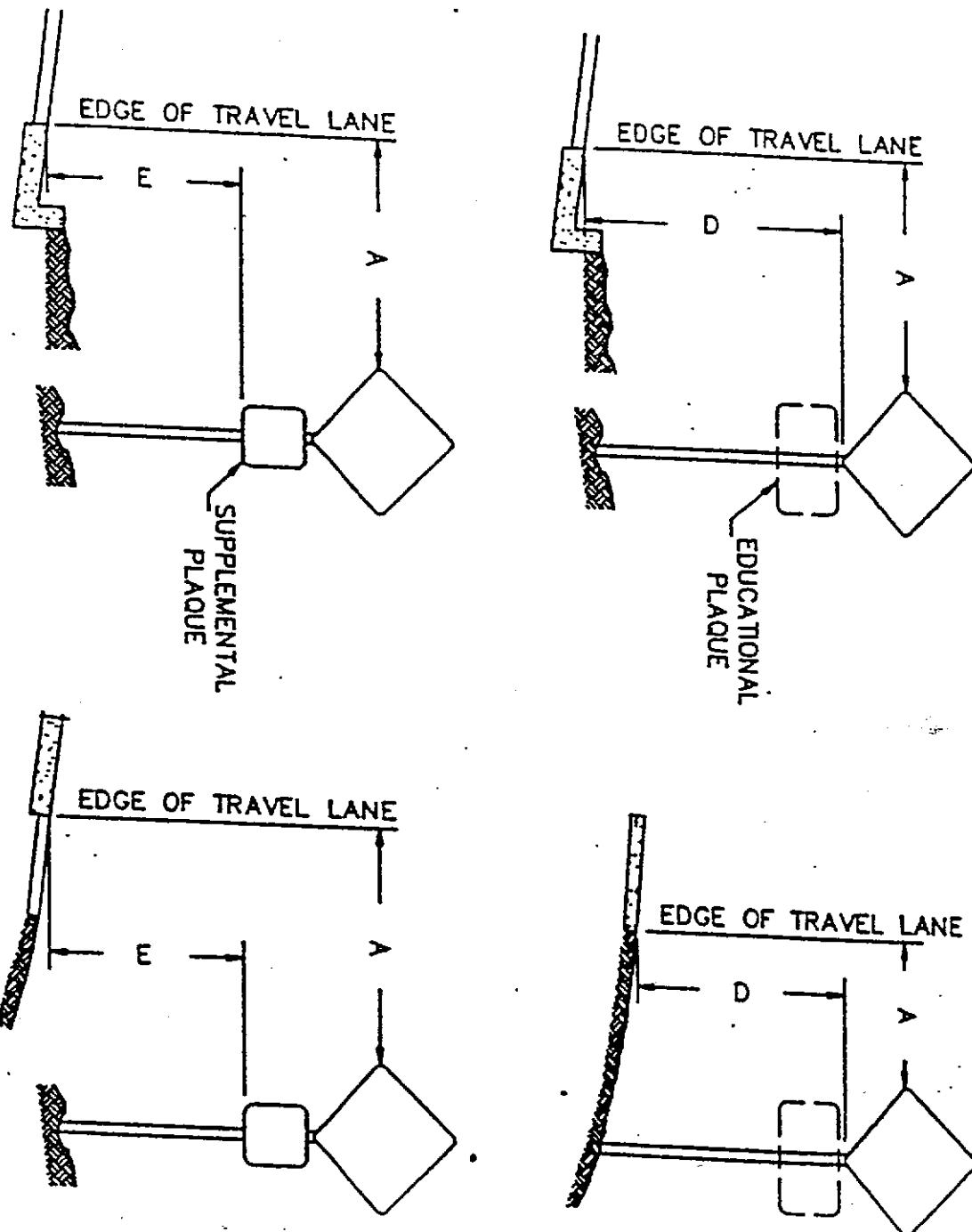
Issued: _____

Revised: _____

Drawing No. 000

ADOPTED
7/8/99

TELLER COUNTY



WARNING SIGN PLACEMENT

Issued: _____

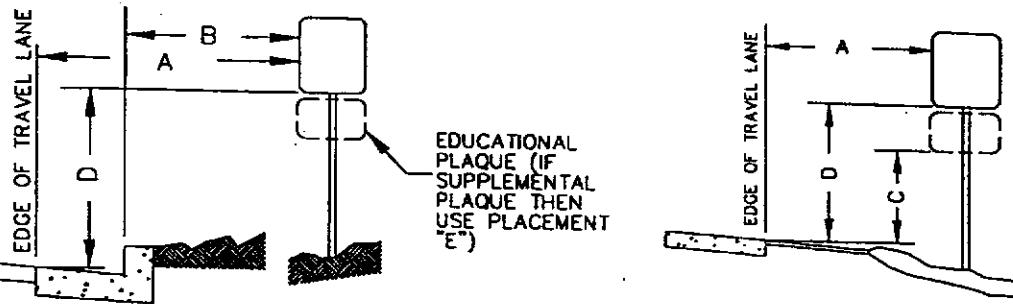
Revised: _____

Drawing No. _____

ADOPTED
7/8/99

Teller County

SP 26



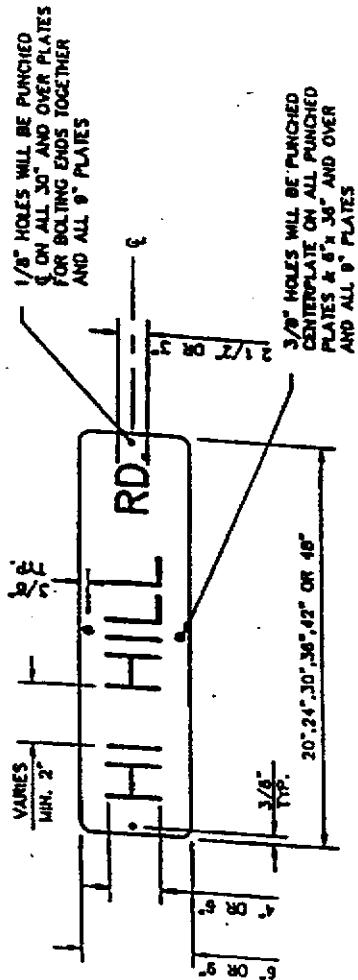
REGULATORY SIGN PLACEMENT

LATERAL PLACEMENT				
KEY	LOCAL STREETS		COLLECTORS & ARTERIALS	
	MINIMUM	NORMAL	MINIMUM	NORMAL
RURAL	A	12'-0"	12'-0"	12'-0"
URBAN	B	1'-0"	2'-0"	1'-0"

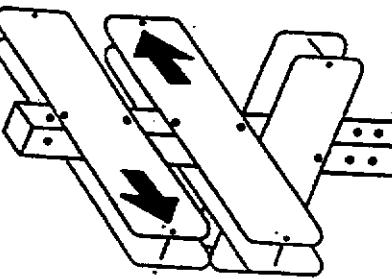
VERTICAL PLACEMENT (MINIMUM)				
KEY	URBAN		RURAL	
	W/TH SIDEWALKS	W/OUT SIDEWALKS	W/TH SIDEWALKS	W/OUT SIDEWALKS
C	6'-0"	6'-0"	6'-0"	6'-0"
D	7'-0"	7'-0"	7'-0"	7'-0"
E	6'-0"	6'-0"	6'-0"	6'-0"

- A CLEARANCE OF 1 FOOT FROM THE CURB FACE IS PERMISSIBLE WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.

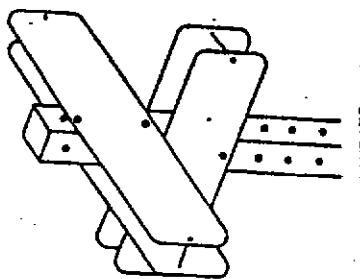
ADOPTED 7/8/99	REGULATORY SIGN PLACEMENT	Issued: _____
		Revised: _____
Teller County		Drawing No. SP.27



DETAIL 2



DETAIL 3



ADOPTED
7/8/99

STREET SIGN ASSEMBLY

Issued: _____

Revised: _____

Drawing No. _____

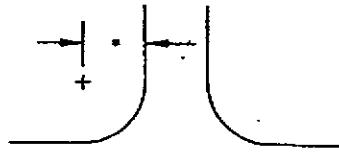
SP.28

Teller County

NOTE:

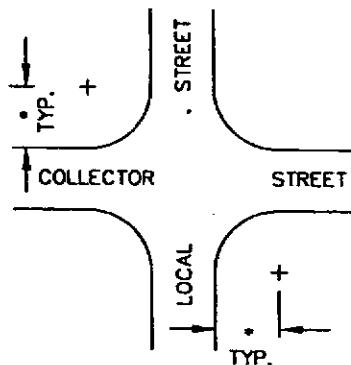
- SEE SECTION 6.13.5 OF
THESE STANDARDS FOR DISTANCE

T-INTERSECTION



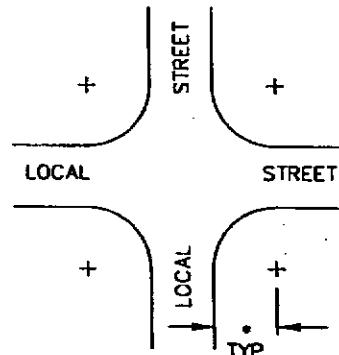
ASSEMBLY MUST BE PLACED
AT THIS LOCATION

LOCAL-COLLECTOR
STREET INTERSECTION



ASSEMBLY SHALL BE LOCATED
AT BOTH LOCATIONS.

LOCAL-LOCAL
STREET INTERSECTION



ASSEMBLY SHALL BE LOCATED
AT ANY TWO OF THESE LOCATIONS,
LOCATED DIAGONALLY ACROSS
FROM EACH OTHER.

ADOPTED
7/8/99

STREET NAME
ASSEMBLY LOCATIONS

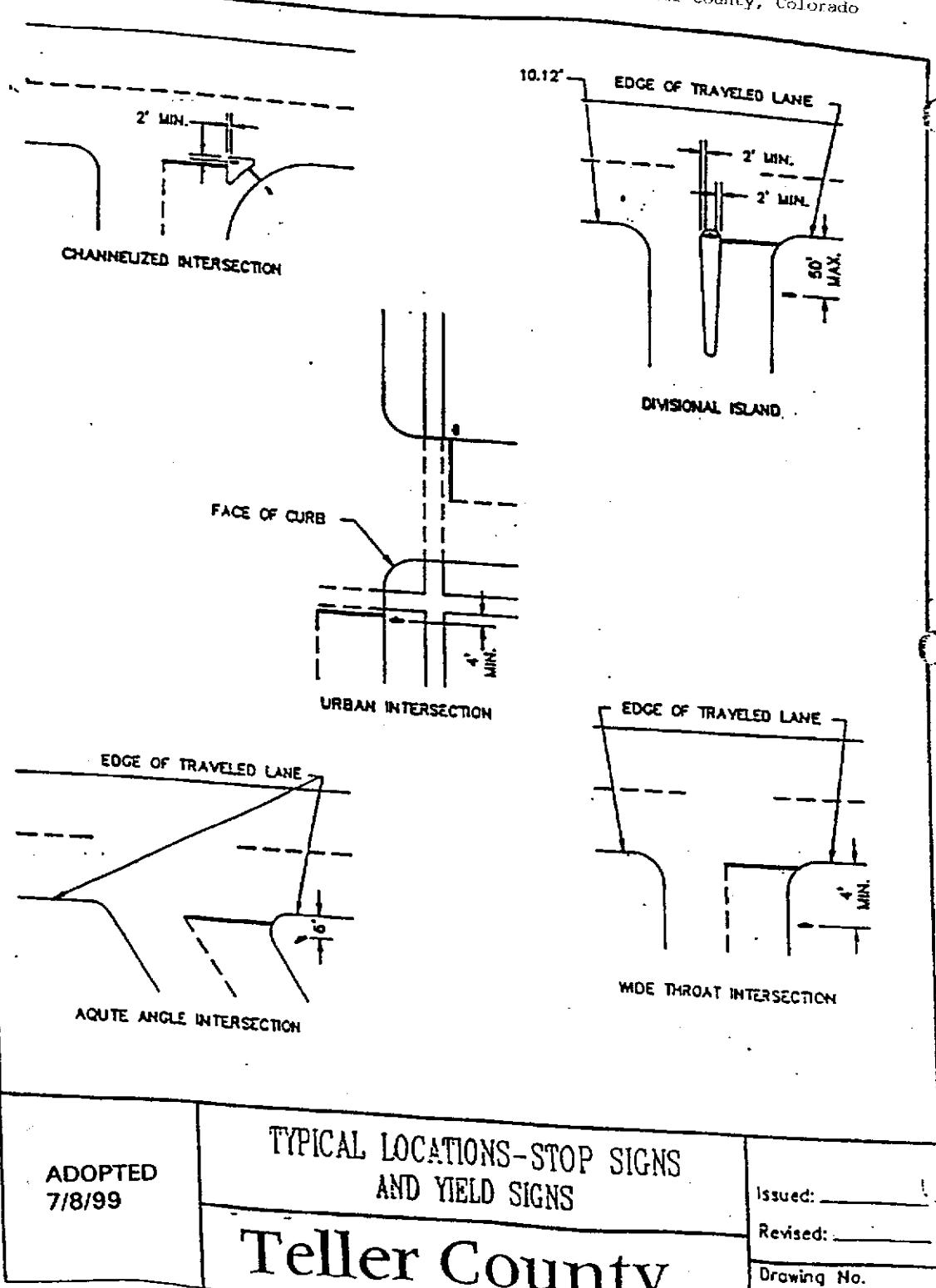
Issued: _____

Revised: _____

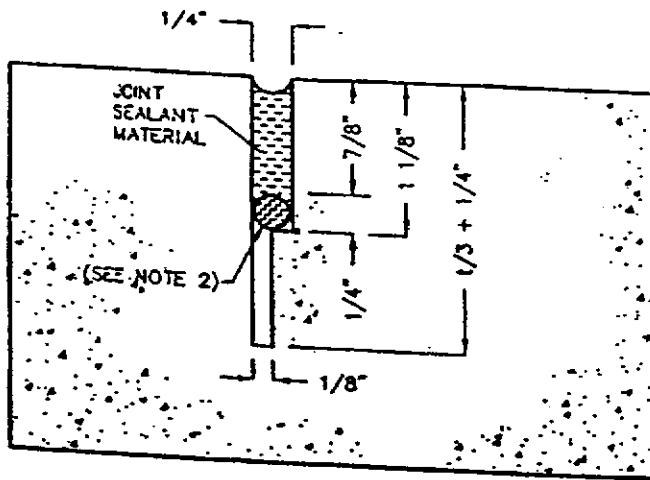
Teller County

Drawing No.

SP.29



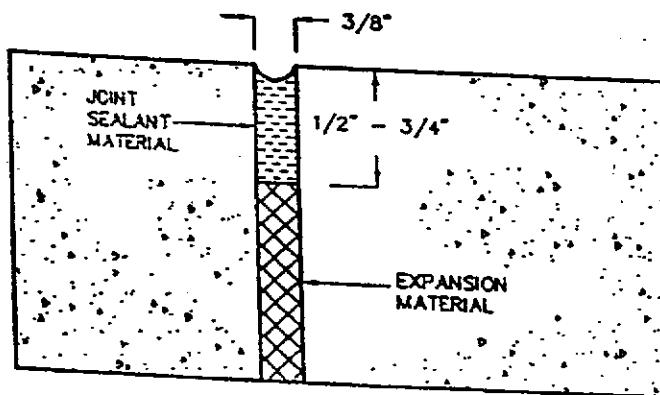
SAWED JOINT



NOTE:

WASH & BLOW OUT WITH FORCED AIR UNTIL DRY BEFORE APPLYING SEALANT MATERIAL

EXPANSION JOINT



NOTE:

1. JOINT SEALANT MATERIAL MUST MEET ASTM 3406.
2. NYLON ROPE OR OPEN CEL POLYURETHANE STRAND.

ADOPTED
7/8/99

SAWED JOINT
AND EXPANSION JOINT

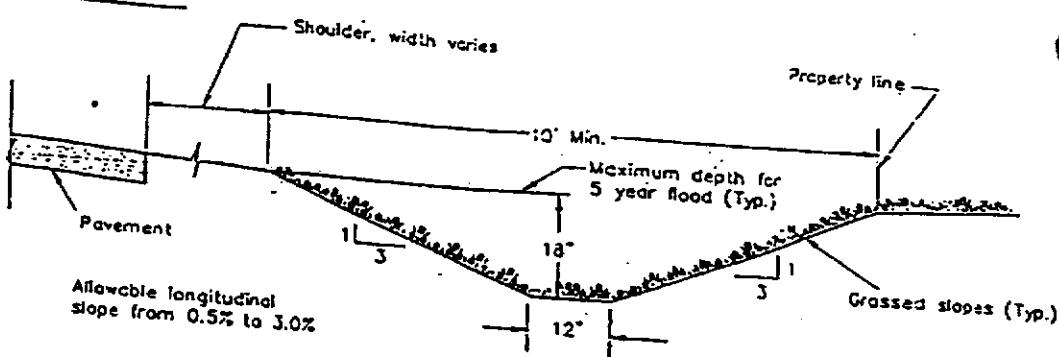
Teller County

Issued: _____

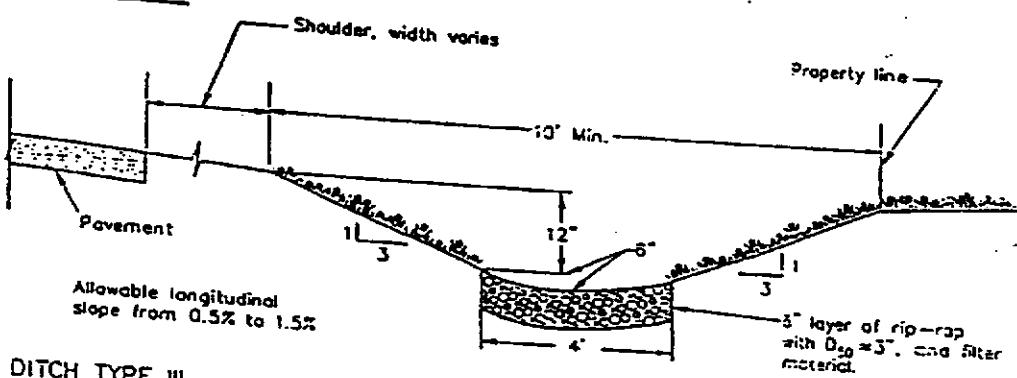
Revised: 7-93

Drawing No
SP.31

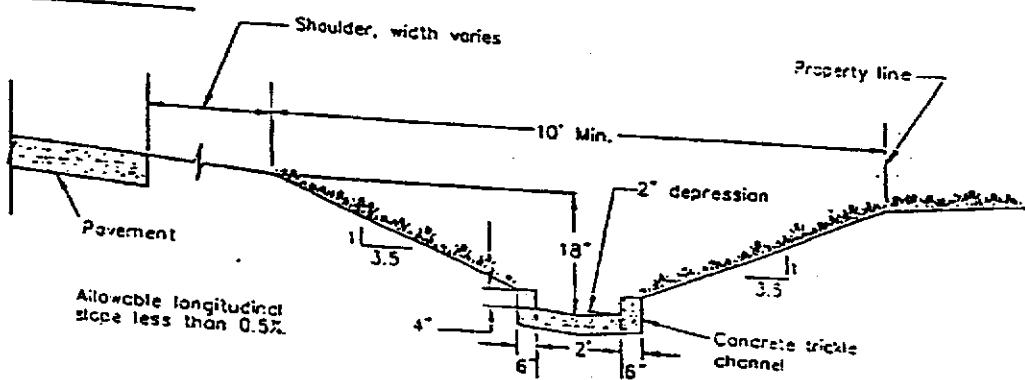
DITCH TYPE I



DITCH TYPE II



DITCH TYPE III



ADOPTED
7/8/99

ROADSIDE
DITCH SECTIONS

Issued: _____

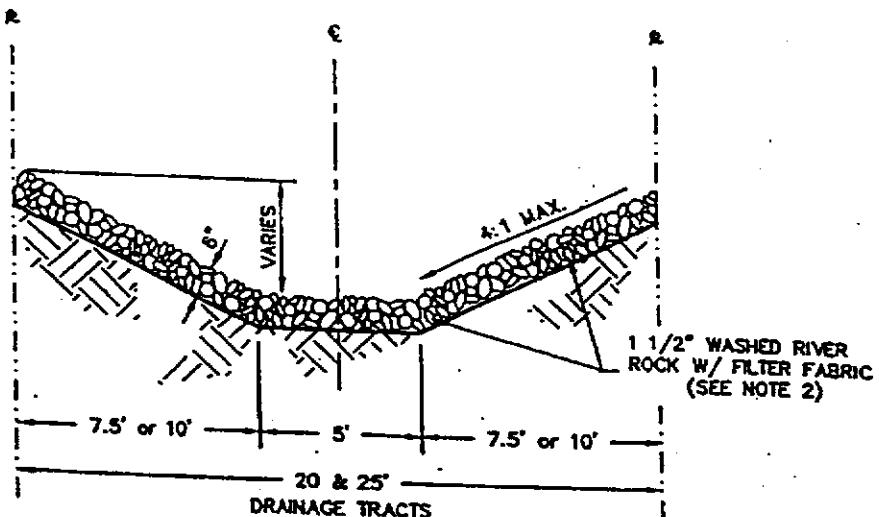
Revised: _____

Drawing No.

CD 32a

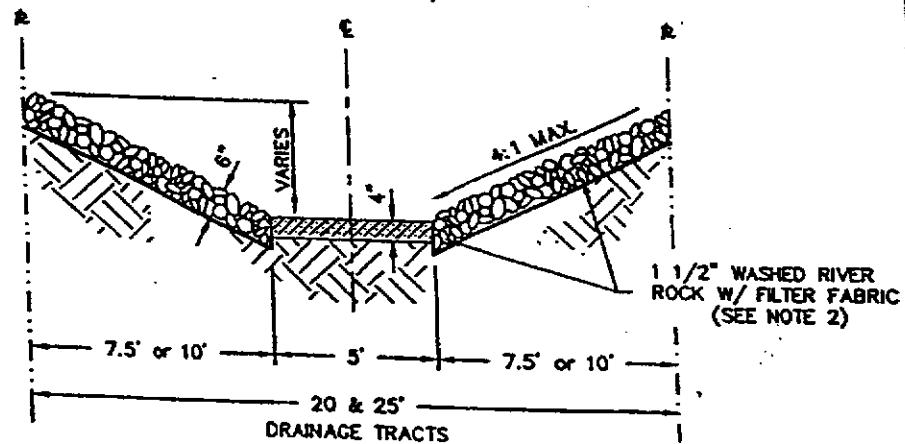
Teller County

TYPICAL CROSS SECTION



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Connie Joiner, Clerk & Recorder, Teller County, Colorado

CROSS SECTION WITH OPTIONAL SIDEWALK
(SEE NOTE BELOW)



NOTES: 1. OPTIONAL 4" CONCRETE SIDEWALK MAY BE USED ONLY WITH THE DISTRICT'S APPROVAL.
2. FILTER FABRIC IS TARABOND #1112-12-4 OR EQUIVALENT.
3. LONGITUDINAL SLOPE SPECIFICATION, MIN. 2%, MAX. 25%.

ADOPTED 7/8/99	EMERGENCY OVERFLOW CHANNEL (IN DRAINAGE TRACT)	Issued: _____
		Revised: 7-95
Teller County		Drawing No. SP32b