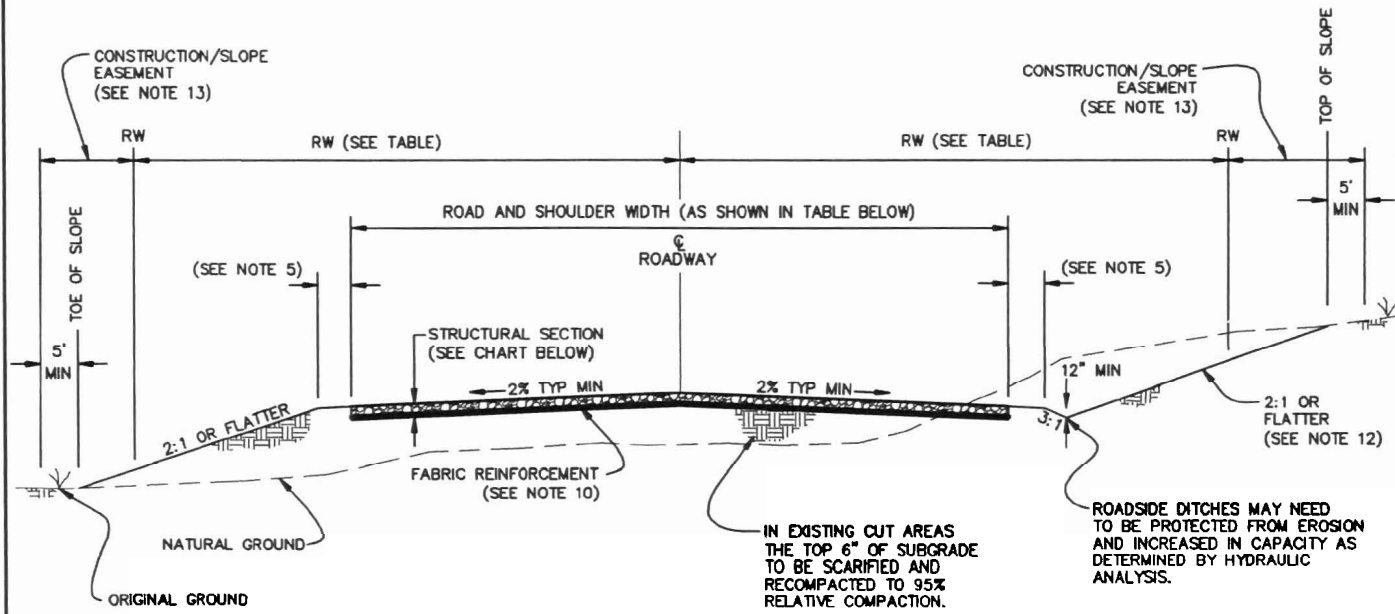


Comparison of existing and proposed Standard Plan 101C standards

Existing Standard		Proposed Standard		
Width	Up to 5,000 ADT,	24' roadway, 2' shoulders each side	Up to 2,000 ADT	Roadway widths vary from 18' to 22', shoulders vary from 1' to 6', each side.
			Above 2,000 ADT	use Standard Plan 101A or 101B
Structural Section	Up to 3,000 ADT	Gravel	Up to 400 ADT	Aggregate Base
	3,001 to 5,000	Chip Seal over Aggregate Base	401 ADT and above	AC over Aggregate Base
	5,001 and above	AC over Aggregate Base	Fabric reinforcement for all ADTs if R Value is less than 10	
			Paved Surface if above 3,000 elevation	
Grades	12% Maximum Grade (Can go up to 18% with County Engineers Approval)		Up to 400 ADT	12% unpaved, 15% paved
			Above 401 ADT	13%
Design Speed (MPH)	Under 3,000 ADT	20	Under 150 ADT	20
	3,001 to 5,000	25	151 to 400	25
	5,001 to 7,000	30	401 to 2,000	40
	Above 7,000	35	Above 2,001	Use Standard Plan 101A or 101B

Submitted by Jim Share
of DOT
at Board Hearing of 7/3/07
#17



NOT TO SCALE

ADT	RW	ROADWAY WIDTH	SHOULDER WIDTH	DESIGN SPEED	MAX GRADE	STRUCTURAL SECTION
1-150	50'	18'	1' (EACH SIDE)	20 MPH	15% PAVED	8" AB (SEE NOTE 11)
151-400	50'	20'	2' (EACH SIDE)	25 MPH	12% UNPAVED	10" AB (SEE NOTE 11)
401-1500	60'	20'	5' (EACH SIDE)	40 MPH	13%	4" AC ON 7" AB
1501-2000	60'	22'	6' (EACH SIDE)	40 MPH	13%	4" AC ON 8" AB
GREATER THAN 2,000 ADT USE STANDARD PLAN 101A OR 101B						

NOTES:

1. STANDARD PLAN 101A OR 101B SHALL BE USED FOR ALL COUNTY MAINTAINED ROADS AND ALL NON-COUNTY MAINTAINED ROADS WITHIN COMMUNITY REGIONS.
2. ADT DATA SHOWN IN THE TABLE ARE THE FORECASTED FOR 20-YEAR OUT DAILY VOLUMES.
3. ROADS ABOVE 3,000 FT ELEVATION SHALL BE AC PAVED. THE MINIMUM STRUCTURAL SECTION SHALL BE 2.5" AC ON 6" AB FOR ROADS WITH ADTS LESS THAN 401.
4. ROADS WITH ADT LESS THAN 401 MAY EXCEED THE 12% GRADE MAXIMUM, UP TO A MAXIMUM OF 15%, IF THEY ARE PAVED WITH A MINIMUM OF 2.5" AC ON 6" AB.
5. ROADS WITH AC PAVING SHALL HAVE 1' OF UNPAVED SHOULDER TO SLOPE HINGE POINT/DITCH EDGE.
6. WIDENING OF EXISTING ROADS SHALL COMPLY WITH MINIMUM STRUCTURAL SECTION REQUIRED AND HAVE AS GOOD OR BETTER SURFACING THAN EXISTING ROAD.
7. ANY MODIFICATION TO STRUCTURAL SECTION SHOWN SHALL BE BASED ON "R" VALUE AND "I.I". DESIGN TO BE SUBMITTED TO DOT FOR REVIEW AND APPROVAL.
8. AC SHALL BE TYPE B.
9. THE TOP 6" OF SUBGRADE AND ALL CLASS 2 AB SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
10. ROADS WITH A SUBGRADE "R" VALUE OF LESS THAN 10 SHALL INCLUDE FABRIC REINFORCEMENT.
11. DOUBLE-CHIP SEAL MAY BE SUBSTITUTED FOR 2" OF AB FOR ROADS WITH ADT BELOW 401.
12. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL, UNLESS A CIVIL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE AND WILL NOT BE SUSCEPTIBLE TO EROSION. SLOPES OVER 10 (TEN) HORIZONTAL TO 1 (ONE) VERTICAL ARE TO BE KEYED WHEN PLACING EMBANKMENT FILL.
13. SLOPE EASEMENTS SHALL EXTEND 5' BEYOND HINGE POINTS, SLOPE TOES, AND DRAINAGE STRUCTURES.



APPROVED BY: _____ DATE: _____
 RICHARD W. SHEPARD, P.E. NO. 35439
 DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION
 BOARD OF SUPERVISOR'S RESOLUTION NO. _____

EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS

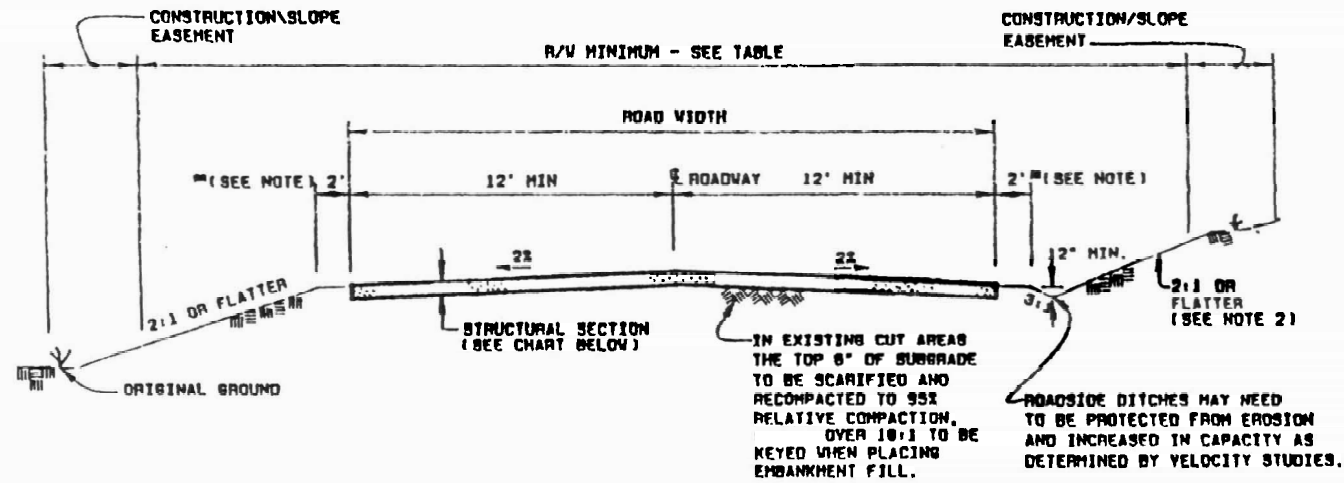


LOCAL ROADWAYS:
 RURAL REGIONS &
 RURAL CENTERS

STD. PLAN
101C

NOTES:

1. EMBANKMENT SHALL BE COMPACTED TO 98% (C.T.M. 231F OR A.S.T.M. 1556). THE TOP 8" OF NATIVE SUBGRADE WILL BE COMPACTED TO 95%, AS WELL AS CLASS II AGGREGATE BASE & SUBBASE.
2. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL UNLESS A CIVIL ENGINEER OR GEOTECHNICAL ENGINEER DETERMINES THAT A STEEPER SLOPE WILL BE SAFE FOR THE INTENDED USE, AND WILL NOT BE SUSCEPTIBLE TO EROSION, AND WILL NOT CAUSE ADDITIONAL MAINTENANCE.
3. GRAVEL SURFACE BELOW 3000' SHALL BE COMPACTED AGGREGATE SUBBASE, WITH GRADES EXCEED 10%, AND ON GRADES GRADES OVER 3,000 FT ELEVATION A CHIP SEAL WILL BE APPLIED OVER 6" OF AB. SEE NOTE 3 FOR CHIP SEAL AND NOTE 8 FOR A.C. INFORMATION.
4. CHIP SEAL SURFACE IS MCR000 SEAL PLACED ON COMPACTED AGGREGATE BASE WITH A DOUBLE APPLICATION OF 3/8" BY #8 CHIPS, WITH A TOP COURSE OF BY #10 CHIPS.
5. WHERE ROAD WIDTHS ARE 10' OR GREATER, THE OUTSIDE 4' ON EACH SIDE NEED NOT BE A.C. SURFACED BUT FINISHED GRADE OF 4" A.B. SHOULDERS SHALL CONTINUE AT 2% WITH FINISHED A.C. GRADE. DRAINAGE WILL BE CONTROLLED SO AS TO NOT ERODE SLOPES.
6. ADT'S SHALL BE THOSE SHOWN IN THE LAND CAPABILITY REPORT UNLESS DETERMINED BY THE COUNTY ENGINEER.
7. OVER ALL CLASS II AGGREGATE BASE, ASPHALT CONCRETE SHALL BE TYPE B PER CALTRANS SPECIFICATION 39. FOR GRADES EXCEEDING 7% AND ELEVATIONS OVER 3,000 FT., 3/4" MAX. MED. TYPE B TO BE USED. THE A.C. SECTION WILL BE 2" OVER 6" OF AB. TACK COAT TO BE USED BETWEEN A.C. LIFTS.



R/W	ROAD WIDTH	MAXIMUM ADT	STRUCTURAL SECTION		DESIGN SPEED	MAX. GRADE
			AGGREGATE	SURFACE		
50'	24'	LESS THAN 3,000	6" SB	GRAVEL	20	12%
50'	24'	3001 TO 5,000	6" AB	CHIP SEAL	25	12% #
60'	40'	5001 TO 7,000	6" AB	2.5" A.C.	30	12%
60'	40'	GREATER THAN 7,000	8" AB	3" A.C.	35	12%

OR HIGHER WITH COUNTY ENGINEERS APPROVAL (NOT TO EXCEED 10%)
 ## TWO FT. SHOULDER REQUIRED IN 50' R/W FOUR FT. REQUIRED IN 60' R/W.

NOT TO SCALE

GENERATED	REVISIONS	APPROVED:
DATE: 04/03/00		<i>Scott Chubb</i>
BY: JM/SR/BS		DIRECTOR OF TRANSPORTATION
BY: SKP		<i>Steve K. Klype</i>
		SENIOR CIVIL ENGINEER

033427
P.E. NO.

EL DORADO COUNTY
 DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS



RURAL
SUBDIVISION
& PARCEL MAP
ROADWAYS

STD.
PLAN

101C