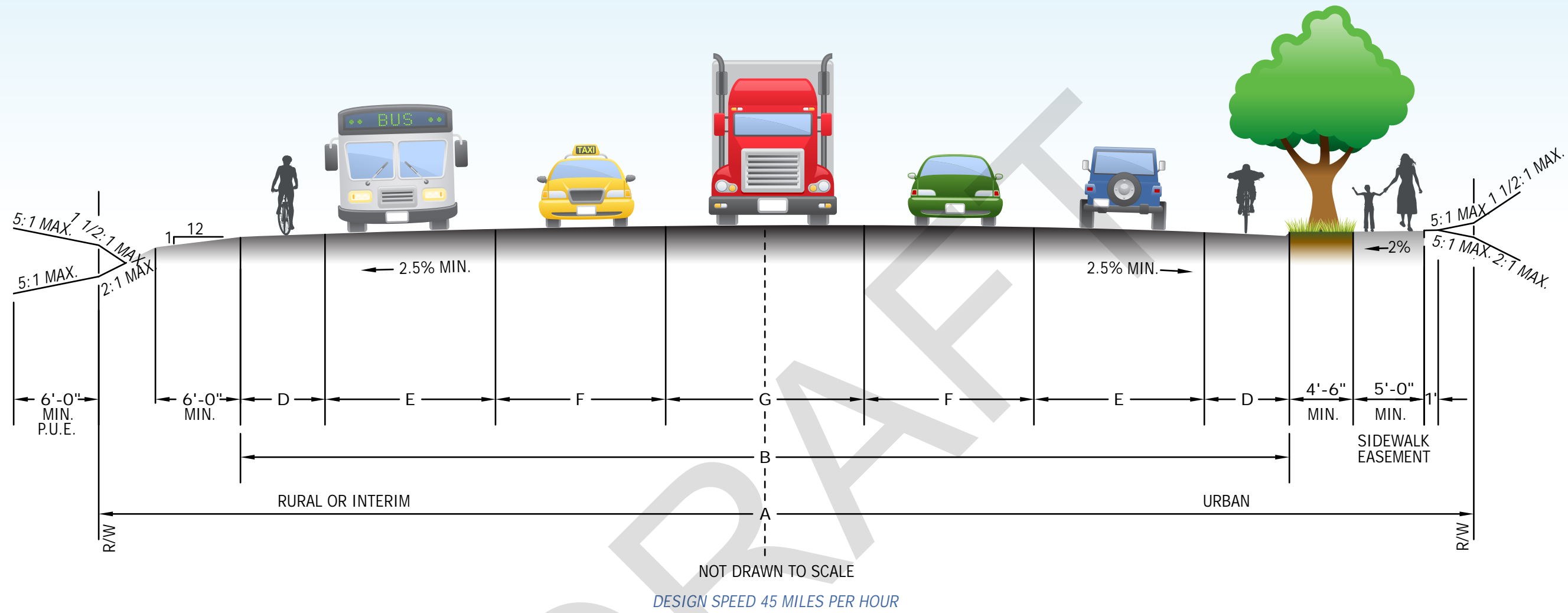

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Appendix D *Washington County Road
Design and Construction
Standards: Selected exhibits*

Arterial Road Section



Road Classification	Washington County Designation	Right of Way (Feet)	Paved Width (Feet)	Number of Lanes	Bike Lane / Paved Shoulder	Curb Travel Lane	Travel Lane(s)	Center Turn Lane	Parking Allowed
Arterials		A	B		D	E	F	G	
	A-1	122	98	7	6	12 + 12	12	14	NONE
	A-2	98	74	5	6	12	12	14	NONE
	A-3	90	60 *‡	4	6	12	12	0	NONE
	A-4	90	50 *	3	6	0	12	14	NONE

*GRAVEL SHOULDERS AND DITCHES ALLOWED FOR THESE WIDTH ONLY. STANDARD INTERIM SECTION
 ‡ P.U.E.'S REQUIRED OUTSIDE OF R/W IF SHOULDERS AND DITCHES ARE USED.

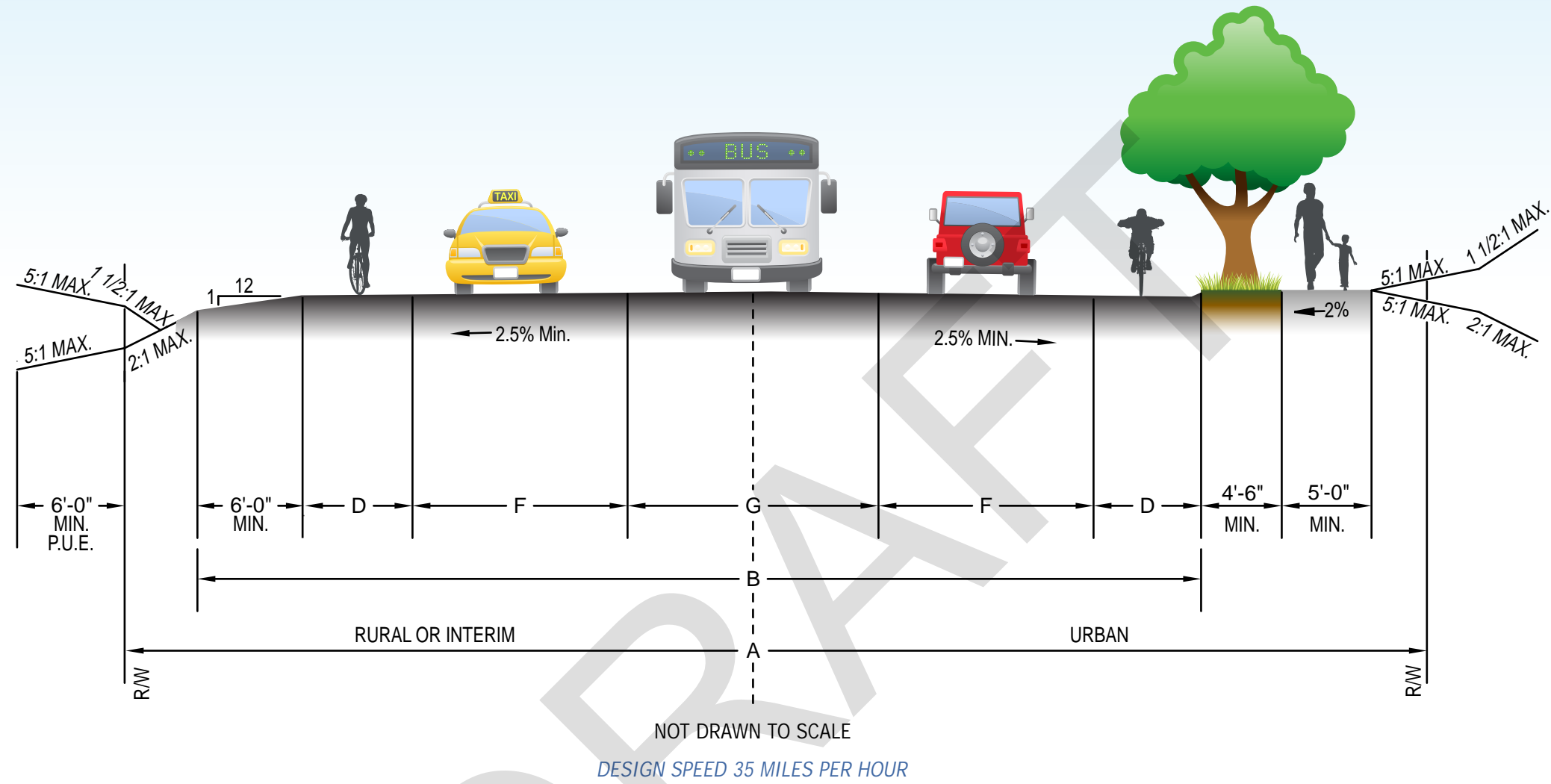
The applied "Washington County Designation" is determined by the county's transportation plan and the land use decision.
 See Appendices A and B for maps of County arterial roads.

Arterial Road Section
 Washington County Exhibit#: 1
 Effective Date:

Washington County
 Department of Land Use
 & Transportation
 Engineering Section



Collector Road Section



Road Classification	Washington County Designation	Right of Way (Feet)	Paved Width (Feet)	Number of Lanes	Bike Lane/ Paved Shoulder	Travel Lane	Center Turn Lane	Parking Allowed
Collectors		A	B		D	F	G	
	C-1	74	50	3	6	12	14	NONE
	C-2	**	36 †	2	6	12	0	NONE

*GRAVEL SHOULDERS AND DITCHES ALLOWED FOR THESE WIDTHS ONLY. STANDARD INTERIM SECTION

** USE ULTIMATE R/W FOR PAVED WIDTH IDENTIFIED IN THE TRANSPORTATION PLAN, IF NOT KNOWN USE 74 FOOT R/W, IN RURAL AREAS 60' OF RIGHT OF WAY IS REQUIRED.

† P.U.E.'S REQUIRED OUTSIDE OF R/W IF SHOULDERS AND DITCHES ARE USED.

The applied "Washington County Designation" is determined by the county's transportation plan and the land use decision. See Appendices C and D for maps of County collector roads.

controlled local road approach. This is based on the reasonable speed of a vehicle turning from the through road to the intersecting road.

Exhibit 7

DESIGN CONTROLS FOR **CREST** VERTICAL CURVES BASED ON STOPPING SIGHT DISTANCE

DESIGN SPEED	K
15	3
20	7
25	12
30	19
35	29
40	44
45	61
50	84
55	114

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Exhibit 8

DESIGN CONTROLS FOR **SAG** VERTICAL CURVES BASED ON STOPPING SIGHT DISTANCE

DESIGN SPEED	K*
15	10
20	17
25	26
30	37
35	49
40	64
45	79
50	96
55	115

WHERE:

$$K = L/A$$

A = Algebraic Difference in grades, percent.

L = Length of vertical curve, feet.

The minimum sag vertical curve length is defined by:

$$L = AV^2/46.5$$

Where V = road design speed

* Values may be reduced if road lighting is present for sag vertical curves. AASHTO Roadway Lighting Design Guide shall serve as a guide.

320.030.1 Superelevations

See Exhibit 9 for superelevation guidance.

Superelevation transitions will be designed with two-thirds of the transition in the tangent section and one-third of the transition in the curve section.