

NOTE: OPEN DRAINAGE SYSTEMS (EXCEPT ALLEYS) REQUIRE MAYOR & COUNCIL APPROVAL

ITEM	STREET CLASSIFICATIONS					NOTES
	ARTERIAL	MAJOR COLLECTOR	MINOR COLLECTOR	LOCAL	ALLEY	
MAXIMUM A.D.T. (ALL LANES, BOTH DIRECTIONS)	24,000	12,000	7,000	2,500	100	SEE NOTE F
DESIGN SPEED (MPH)	50	40	30	25	20	
POSTED SPEED LIMIT (MPH)	40	30	25	25	20	
LANE WIDTH (FEET)	12	12	12	10	12	SEE NOTE A
SHOULDER WIDTH (FEET)	10	8	8	8	0	SEE NOTE G
MINIMUM TURNING LANE WIDTH (FEET)	12	11	10	10	-	
MINIMUM MEDIAN WIDTH (FEET)	16	16	16	16	-	
MINIMUM HORIZONTAL \sphericalangle CURVATURE RADIUS (FEET)	1,000	725	325	*100	50	*SEE NOTE J
MINIMUM RADIUS AT INTERSECTIONS (FT)	50	35	30	25	10	EDGE OF TRAVEL LANE
STOPPING SIGHT DISTANCE (FEET)	450	300	200	150	-	LEVEL GRADE/WET PAVEMENT
MINIMUM ROADWAY PERCENT GRADE	0.75 %	0.75%	0.75%	0.75%	0.75%	
MAXIMUM ROADWAY PERCENT GRADE	6%	6%	8%	10%	13%	
INTERSECTION APPROACH PERCENT GRADE	3%	4%	5%	5%	8%	SEE NOTE B
ROADWAY PAVEMENT CROSS SLOPE	3/8 INCH/FT.	3/8 INCH/FT.	3/8 INCH/FT.	3/8 INCH/FT.	*	* SEE PLATES T-027,T-028
MAXIMUM SUPERELEVATION	0.06 FT./FT.	0.06 FT./FT.	-	-	-	
MINIMUM SUPERELEVATION RUNOFF	AASHTO STDS.	AASHTO STDS.	-	-	-	
MINIMUM BASIC RIGHT-OF-WAY WIDTH (FEET)	105	100	60	60	18	SEE NOTE A, C, & D
RIGHT-OF-WAY RADIUS AT INTERSECTIONS (FT)	40	40	40	30	20	LOCAL STREET, SEE NOTE H

NOTES :

- A. BRIDGE WIDTHS SHALL MEET MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION STANDARDS. SIDEWALKS ON BRIDGE APPROACHES, SHALL BE CARRIED ACROSS, MINIMUM OF 5' WIDTH.
- B. INTERSECTION GRADES SHALL APPLY TO THE FIRST 75 FEET OF THE INTERSECTING STREET, MEASURED FROM STREET CENTER LINES.
- C. ADDITIONAL RIGHT OF WAY OR EASEMENTS MAY BE REQUIRED AT INTERSECTIONS, BRIDGES, AND MAJOR CULVERT STRUCTURES.
- D. SEE TRANSPORTATION STANDARD DETAIL PLATE T-026 FOR CUL-DE-SAC STANDARDS.
- E. PARKING IS PROHIBITED ON ALL OPEN SECTION ROADWAYS. OFF-STREET PARKING SHALL BE PROVIDED AT A MINIMUM OF 3 VEHICLES PER RESIDENTIAL UNIT.
- F. PEAK DESIGN HOURLY VOLUME (D.H.V.) IS ASSUMED TO BE 10% OF THE A.D.T.
- G. THE SHOULDER PAVEMENT SECTION SHALL MATCH THE TRAVEL LANE PAVEMENT SECTION.
- H. THE INTERSECTING RIGHTS-OF-WAY OF A LOCAL STREET AND A NON-LOCAL STREET SHALL HAVE A 40'-0" RADIUS.
- J. RADII AS SMALL AS 75' MAY BE APPROVED BY THE CITY ENGINEER FOR RESIDENTIAL USE ONLY.



CITY OF HAGERSTOWN, MARYLAND – ENGINEERING DIVISION

**TRANSPORTATION STANDARD DETAIL
GEOMETRIC DESIGN CRITERIA
OPEN DRAINAGE SYSTEM**

ISSUE DATE: 06-13-2022

REVISIONS

Plate T-011