

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 \curvearrowright CURVATURE RADIUS (FEET) | 1,000 | 725 | 325 | *180 | 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 | 15 | SEE NOTE A, C, & D |
| RIGHT-OF-WAY RADIUS AT INTERSECTIONS (FT) | 40 | 40 | 40 | 30 | 10 | 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 125' 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: 03-01-2018

REVISIONS

Plate T-011