

UNPAVED TRAIL - NOTES:

1. TRAIL WIDTH TO BE DETERMINED BY CITY OF RALEIGH.
2. TRAIL TO BE FIRM AND STABLE. MATERIALS SUCH AS PACKED CRUSHED STONE, GRAVEL FINES COMPACTED WITH ROLLER, PACKED SOIL, AND OTHER NATURAL MATERIALS BONDED WITH SYNTHETIC MATERIALS CAN BE USED TO PROVIDE THE REQUIRED DEGREE OF STABILITY AND FIRMNESS. MATERIAL SELECTION TO BE APPROVED BY THE CITY.
3. TRAILS OR TRAIL SEGMENTS OF ANY LENGTH MAY BE CONSTRUCTED WITH RUNNING SLOPES/VERTICAL GRADES UP TO 1:20 (5%). TO ACCOMMODATE STEEP TERRAIN, TRAILS MAY BE DESIGNED WITH STEEPER SECTIONS OF CONSTRAINED LENGTH AS SHOWN IN TABLE 1. RESTING INTERVALS WITH FLATTER RUNNING SLOPES ARE REQUIRED BETWEEN TRAIL SEGMENTS ANYTIME THE RUNNING SLOPE EXCEEDS 1:20 (5%).
4. TO ENSURE THAT A TRAIL IS NOT DESIGNED AS A SERIES OF STEEP SEGMENTS, NO MORE THAN 30% OF THE TOTAL LENGTH OF TRAIL MAY HAVE A RUNNING SLOPE/VERTICAL GRADE EXCEEDING 1:12 (8.33%). THE RUNNING SLOPE MUST NEVER EXCEED 1:8 (12.5%). RESTING INTERVALS MUST BE PROVIDED MORE FREQUENTLY AS THE RUNNING SLOPE INCREASES.
5. RESTING INTERVALS MAY BE PROVIDED WITHIN THE TRAIL TREAD OR ADJACENT TO THE TRAIL TREAD. WHEN THE RESTING INTERVAL IS WITHIN THE TRAIL TREAD, IT MUST BE AT LEAST 60 INCHES LONG AND AT LEAST AS WIDE AS THE TRAIL. WHEN THE RESTING INTERVAL IS ADJACENT TO THE TRAIL, IT MUST BE AT LEAST 60 INCHES LONG AND 36 INCHES WIDE. RESTING INTERVALS SHALL BE LOCATED ON UPHILL SIDE OF TRAIL IF ONLY PROVIDED ON ONE SIDE.
6. IF COMPLIANCE CANNOT BE ACHIEVED FOR NOTES 2 THROUGH 5 ABOVE DUE TO CONDITIONS SUCH AS THE EXISTING TERRAIN, PREVAILING CONSTRUCTION PRACTICES, THE FUNCTION OR PURPOSE OF THE FACILITY, OR IF THE SETTING WOULD BECOME FUNDAMENTALLY ALTERED, THEN IT MUST BE DEMONSTRATED THAT THE STANDARDS CANNOT BE ACHIEVED.
7. FIVE PERCENT MAX CROSS SLOPE. CROSS SLOPE DIRECTION VARIES TO FACILITATE POSITIVE DRAINAGE.
8. PROVIDE A SAFETY RAIL FOR THE FOLLOWING CIRCUMSTANCES WITHIN 6' OF THE EDGE OF TRAIL: 1) SLOPE > 3:1 AND DROP OF 6'; 2) SLOPE > 2:1 AND DROP OF 4'; 3) SLOPE > 1:1 AND DROP OF 1'. REFER TO GW-20.01 AND GW-20.02 FOR SAFETY RAIL DETAILS.
9. CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ALL SLOPES DISTURBED DURING CONSTRUCTION.
10. NO ABOVE-GROUND UTILITIES OR UTILITY SURFACE COVERS/PLATES/MANHOLES SHALL BE LOCATED WITHIN THE TRAIL AND SHALL BE A MINIMUM OF 2' FROM THE EDGE OF TRAIL. RAISED MANHOLES SHALL BE A MINIMUM OF 4' FROM THE EDGE OF TRAIL.

TABLE 1 - MAXIMUM RUNNING SLOPE AND TRAIL SEGMENT LENGTH

RUNNING SLOPE		MAX LENGTH OF SEGMENT
STEEPER THAN	BUT NOT STEEPER THAN	
1:20 (5%)	1:12 (8.33%)	200 FT
1:12 (8.33%)	1:10 (10%)	30 FT
1:10 (10%)	1:8 (12.5%)	10 FT

SHEET 2 OF 2

CITY OF RALEIGH		
STANDARD DETAIL		
<i>REVISIONS</i>	<i>DATE: 12/2022</i>	<i>NOT TO SCALE</i>
		UNPAVED TRAIL
		GW-10.03.2