

Staff - Slope Analysis

Case: 8-H-20-RZ\_8-C-20-SP - Area Proposed for RB Zone ONLY

Density Calculation			
Category	Acres	Recommended Density (Dwelling Units / Acre)	Number of Units
Non-Hillside	17.28	4.36	75.3
0-15% Slope	1.69	4.36	7.4
15-25% Slope	4.21	2.00	8.4
25-40% Slope	2.18	0.50	1.1
Greater than 40% Slope	0.30	0.20	0.1
Ridgetops	0.00		
Subtotal: Sloped Land	8.37		16.9
Maximum Density Guideline (Hillside & Ridgetop Protection Plan)	25.65	3.60	92.3
Maximum Proposed Density (Applicant - RB and MDR)	25.65	12.00	307.8

From Hillside & Ridgetop Protection Plan, page 33

**LOW DENSITY AND RURAL RESIDENTIAL USES**

**Density and Land Disturbance Guidelines**

As proposals for changes to the zoning map and development plans/concept plans are considered, the following factors are recommended to determine the overall allowable density for residential rezonings and the overall land disturbance allowable in new development or subdivisions for those portions of parcels that are within the Hillside and Ridgetop Protection Area. These factors should be codified as regulations in the future. The areas of the Growth Policy Plan referenced below are presented on page 18.

**Table 3: Residential Density and Land Disturbance Guidelines**  
for Recommendations on Changes to the Zoning Map and Development Plan/  
Concept Plan Review within the Hillside and Ridgetop Protection Area  
that is within the Urban Growth and the Planned Growth Area

Percent of Slope	Recommended Maximum Density Factor*	Recommended Maximum Land Disturbance Factor**
0 - 15	Knox County: 5 dua City of Knoxville: 6 dua	100%
15 - 25	2 dua	50%
25 - 40	0.5 dua	20%
40 or more	0.2 dua	10%
Ridgetops***	***	***

dua: dwelling units per acre

\* These factors should be considered guidelines to determine an overall recommended residential density for requests for changes to the zoning map to planned residential (RP-1 in the city and PR in the county) zone districts that are considered by the Metropolitan Planning Commission prior to being considered by the appropriate legislative body. The resulting zone district development right would be considered a budget for dwelling units to be applied over the entire proposed development.

\*\* Until such time as regulations are codified by the appropriate legislative body, these factors should be considered guidelines to determine an overall recommended land disturbance area for development plans and concept plans that are considered for approval by the Metropolitan Planning Commission. The overall land disturbance area would be considered a budget for land disturbance to be applied over the entire proposed development.

\*\*\* Ridgetops are generally the more level areas on the highest elevations of a ridge. Because the shapes of Knox County ridges are so varied (see pages 8 – 9), the ridgetop area should be determined on a case-by-case basis with each rezoning and related development proposal.

The Knoxville Knox County Hillside and Ridgetop Protection Plan — 33

