REDISTRICTING PLAN DEVELOPMENT

for the

Town of Cheverly, Maryland

Final Draft

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1. Background & Redistricting Criteria

The Town of Cheverly, Maryland, desires to update its council ward boundaries to adjust for population changes over the past decade. In order to facilitate the development of a redistricting plan, the Mayor and council appointed a redistricting commission (consisting of the Town Attorney) to guide the development. The commission will submit a recommendation to the Mayor and Council for approval. To assist and perform the plan development and analysis, the town hired Tony Fairfax of CensusChannel LLC. This report and associated appendices outline the effort's process, analysis, and results.

2. Town Meetings

The town council conducted at least three different sessions with the general public regarding redistricting. The first was at the January 12th, 2023, town council meeting, and the second was at the January 26th, 2023, meeting. The first meeting covered an overview of general aspects of redistricting as well as two potential plans. The second focused on summarizing the previous plans in addition to covering a 3rd alternative plan. Each session, included, was open for public comments and questions.

The town council held a 3rd public meeting to discuss and present the final proposed plan (Plan A3). On February 9th, 2023, the council voted to adopt the final plan and approve a charter amendment to adopt the boundaries for town council elections.

3. Methodology

The process prior to plan development included reviewing the state of Maryland's constitution and guidelines for redistricting. In addition, a review of the jurisdiction's redistricting guidelines or criteria occurred as well.

2020 Census population (PL94-171) and geographic data for the town of Chevelry, MD, were obtained from Caliper Corporation. Caliper's Maptitude for Redistricting software was used to generate the redistricting plans and produce the statistical reports. ArcGIS's mapping software was used to generate the final maps.

The approach used to develop the proposed plans was the "Least Change" approach. The least change approach attempts to minimize the changes to the ward configurations and simply adjust for population equality (See Table 1). Because the change in the population of Cheverly, MD, from 2010 to 2020 was only slight, the Least Change approach is the best plan development approach to use.

4. Redistricting Criteria

The criteria for the town of Cheverly is *"To develop a redistricting plan for the Town of Cheverly that will ensure the Ward boundaries of Cheverly conform to the official Census statistics and to comply fully with relevant law as to equitable apportionment of residents in each ward, and submit a recommendation to the Mayor and Council."*[1]

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[1] https://www.cheverly-md.gov/redistricting-commission

Since the town has no specific redistricting criteria that govern the redrawing of ward boundaries. Therefore, the criteria used to develop the plan options were drawn using major traditional redistricting criteria utilized throughout the country, including:

Equally Populating the Wards within an acceptable Deviation

The central criterion that launched modern-day redistricting is to equally populate political districts in order to adhere to the "Equal Protection Clause" that extends from the U.S. Constitution.[2] However, the Courts have ruled that legislative and local districting plans will not violate the "Equal Protection Clause" if the smallest to the largest populated district (overall range) has a deviation percentage less than ten percent (10%) of the ideal population size.[3]

Specifically for Cheverly, MD, the ideal district population size is 1,030 (using 2020 Adjusted Census data).[4] 10% of the ideal population is 103 persons, while 5% is 52 persons (rounded up to the nearest whole person). Thus, the population of each ward should fall between 978 and 1,082. During the development of all plans, the ward population was held within the acceptable deviation range for the Town of Cheverly, MD.

Geographically Contiguous Wards

The Courts have ruled that all parts of the district must be geographically connected to each other or contiguous. However, there are exceptions to this criterion. For example, in many instances, Island land areas of a jurisdiction can be connected to a district by water and noncontiguous annexed land regions.

Compact Wards

The Courts have scrutinized the geographic dispersion and irregularity of the district boundaries. The term used to describe this dispersion and irregularity is called compactness. In order to quantify this geographically, compactness measures have been created. The Courts have accepted that a geographically compact district generally benefits voters, while a noncompact district "may" indicate a gerrymandered district.[5] For example, a district shaped like a circle or a square would be considered extremely geographically compact. Traditionally, most districts have some imperfections or irregularities in their shape. Nonetheless, the more bizarre the district shape, the less likely it is to be compact. During the development of all plans, ward boundaries were developed to be reasonablycompact or better.

However, low compactness scores may be attributed to the irregular shape and boundaries of the jurisdiction. The northwest jurisdictional area of Cheverly, MD, is an example of this occurrence. The

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[2] The court case Avery v. Midland County, 390 U.S. 474 ruled that local government districts had to be roughly equal in population and follow the same concept found under the case *Reynolds v. Sims*.

[3] ideal or average district population is calculated by dividing the jurisdictions population by the number of districts within the plan.

[4] The state of Maryland legislature passed the "No Representation Without Population Act" law that adjusts Census Data to "reassign Maryland residents in correctional institutions to their last known address and to exclude out-of-state residents in correctional institutions from redistricting." This adjusted dataset was used to develop the plans. See https://planning.maryland.gov/Redistricting/Pages/2010/newLaw.aspx

[5] Gerrymandered districts refer to districts that have been configured to favor or disfavor a particular party or class of voter.

lower compactness measurement of the northwest area of Ward 5 is primarily due to the irregular shape of the jurisdictional.

Minimizing Political Subdivision Splits

One commonly accepted traditional redistricting criterion is minimizing political subdivision splits. This criterion usually includes minimizing splits of counties, cities, precincts, and voting tabulation districts (VTDs)[8]. During the development of all plans, precincts or VTDs were left similarly intact or split as the Current Plan.

Preserving Communities of Interest

Communities of Interest (COIs) represent geographically defined areas of voters with common interests. The interests could be cultural, socioeconomic, environmental, and "almost" anything that the voters decide and demonstrate that there is a voting interest. The principle is to preserve or not split these COIs. Since the "least change" approach was implemented, neighborhood boundaries were not available, and the size of the town did not readily allow for extensive COI implementation.

Maintaining Ward Cores of the Wards

Maintaining or preserving district core areas as previously drawn is considered one of the traditional redistricting criteria. The plans developed followed a "least change" approach. The least change approach attempts to minimize the changes to the ward configurations and adjust for population equality. Thus, the core areas of each ward were retained as best as possible.

5. Cheverly, MD General Demographics

The town of Cheverly essentially maintained its total population during the decade and only decreased by three persons from 6,173 in 2010 to 6,170 in 2020 (See Table 1).

Highlights of the demographic changes include:

- The town of Cheverly, Maryland, in 2010, had a population of 6,173. In 2020, the town had decreased by only persons to 6,170.

- The Latino population increased 224 persons from 651 (10.55%) in 2010 to 875 (14.18%) in 2020.

- The Not Hispanic White Alone population increased 177 persons from 1,752 (28.38%) in 2010 to 1,929 (31.26%) in 2020.

- The Not Hispanic Black Alone population decreased 608 persons from 3,479 (56.36%) in 2010 to 2,871 (46.53%) in 2020.

- The Not Hispanic Asian Alone population increased 43 persons from 101 (1.64%) in 2010 to 144 (2.33%) in 2020.

The voting age population also essentially maintained; however, it increased slightly from 4,719 in 2010 to 4,736 in 2020.

Table 1 – Cheverly, MD – Total Population - Major Demographics (2010 to 2020)

Description	Total Population					
	2010	%	2020	%	Inc/ Dec	Inc/ Dec%
Total:	6,173	100.00%	6,170	100.00%	**-3**	**-0.05%**
Hispanic or Latino	651	10.55%	875	14.18%	224	3.64%
Not Hispanic or Latino:	5,522	89.45%	5,295	85.82%	-227	-3.64%
Population of one race:	5,362	86.86%	4,983	80.76%	-379	-6.10%
White alone	1,752	28.38%	1,929	31.26%	177	2.88%
Black or African American alone	3,479	56.36%	2,871	46.53%	-608	-9.83%
American Indian and Alaska Native alone	6	0.10%	7	0.11%	1	0.02%
Asian alone	101	1.64%	144	2.33%	43	0.70%
Native Hawaiian and Other Pacific Islander alone	0	0.00%	4	0.06%	4	0.06%
Some Other Race alone	24	0.39%	28	0.45%	4	0.07%
Two or More Races:	160	2.59%	312	5.06%	152	2.46%

Source: 2010 & 2020 Census Data

Note: White, Black, and Asian are Not-Hispanic Alone categories

Table 2 – Cheverly, MD – Voting Age Population - Major Demographics (2010 to 2020)

Description	Voting Age Population					
	2010	%	2020	%	Inc/ Dec	Inc/ Dec%
Total Voting Age Population:	4,719	100.00%	4,736	100.00%	**17**	**0.36%**
Hispanic or Latino	452	9.58%	579	12.23%	127	2.65%
Not Hispanic or Latino:	4,267	90.42%	4,157	87.77%	-110	-2.65%
Population of one race:	4,165	88.26%	3,955	83.51%	-210	-4.75%
White alone	1,450	30.73%	1,507	31.82%	57	1.09%
Black or African American alone	2,613	55.37%	2,291	48.37%	-322	-7.00%
American Indian and Alaska Native alone	4	0.08%	4	0.08%	0	0.00%
Asian alone	88	1.86%	130	2.74%	42	0.88%
Native Hawaiian and Other Pacific Islander alone	0	0.00%	4	0.08%	4	0.08%
Some Other Race alone	10	0.21%	19	0.40%	9	0.19%
Two or More Races:	102	2.16%	202	4.27%	100	2.10%

Source: 2010 & 2020 Census Data

Note: White, Black, and Asian are Not-Hispanic Alone categories

Finally, Table 3 provides Cheverly's citizen voting age population (CVAP) from the American Community Survey (ACS) for the five-year period of 2016 to 2020. CVAP reflects the population above 18 years old who are citizens.[6] The table indicates that Black CVAP is 53.57%, white CVAP is 37.07%, Latino CVAP is 4.20%, and Asian CVAP is 4.85%.

Table 3 – Cheverly, MD – Citizen Voting Age Population - Major Demographics (2020)

Description	CVAP	
	2020	%
Total:	4,496	100.00%
Hispanic or Latino	189	4.20%
Not Hispanic or Latino:	4,307	95.80%
Population of one race:	N/A	N/A
White alone	1667	37.07%
Black or African American alone	2,408	53.57%
American Indian and Alaska Native alone	N/A	N/A
Asian alone	218	4.85%
Native Hawaiian and Other Pacific Islander alone	N/A	N/A
Some Other Race alone	N/A	N/A
Two or More Races:	N/A	N/A

Source: 2020 5-Year American Community Survey (ACS)

Note: N/A - Data not available; White, Black, and Asian are Not-Hispanic Alone categories

6. Initial Plan Development Findings and Process

The first step in the plan development process was to recreate the current redistricting plan. During this process, it was observed that the current Ward 5 could not be recreated exactly using 2020 census blocks. It is important to note that the one-person, one-vote constitutional requirement appears to have been met by apportioning the population. The Current Plan appears to add and apportion the population of several residential building units (Cheverly Station apartment complex) to Ward 5. Thus, the recreation of the Current Plan using "whole" 2020 census blocks cannot be achieved.

Besides not being able to recreate the Current Plan, this single census block (block 240338041011002) that is apportioned connects the northern town area of Ward 5 to Ward 6 (See Figure 1). Census Block 240338041011002 is located in the northeast between Oak Street on the south of the census block and Landover Road on the north. Thus, Ward 5 is landlocked in the northeastern area by this sole census block.

The issue arises when the "whole" census block 240338041011002 is added or removed from Ward 5. If the census block is not added to Ward 5, the plan will have a low population that exceeds the acceptable overall population deviation. For example, the deviation for Ward 5 would be -14.95%,

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[6] CVAP is commonly used to indicate the total persons who are able to register and vote in elections.

beyond the Court's acceptable 10% (See Figure 4). Alternatively, if the entire census block is added to Ward 5, its population would exceed the acceptable deviation with +38.45%.
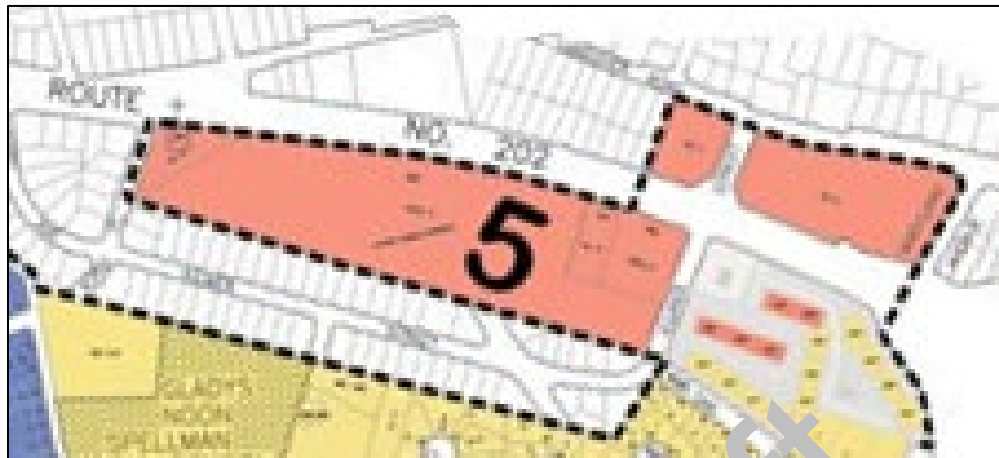

Figure 1 – Cheverly, MD Current Plan Ward 5 Zoom

Therefore, in order for Ward 5 to reach an acceptable population (typically between +/- 5% for each district with 10% overall for the plan), census block 240338041011002 must be split with its total population[7] divided amongst the new census blocks. Two of the new split census blocks will be added to Ward 5 to bring its populations within an acceptable deviation. The remaining split census block can be added to Ward 4.

Hence, census block 240338041011002, which is shown in Figure 2 in the black outline, was split prior to plan development. The new split census blocks were given the additional suffix of "A, B, and C" to the existing census block ID. Figure 2 depicts the original census block split into three smaller blocks (each shown in different colors). The new split census blocks were configured to include the existing buildings in the Cheverly Station apartment complex that are contained within the current Ward 5 plan. Consequently, these two new split census blocks were added to the Ward 5 to bring the ward and the plan within an acceptable population deviation.

The geographic split of 240338041011002B is defined by the unnamed undivided road that enters and exits the apartment complex off Kilmer Street. Census block 240338041011002C follows another unnamed undivided road that enters off of Landover Road, connects to a physical sidewalk feature, and exists to Kilmer Street. Both are split following the U.S. Census Bureau guidelines listed in Figure 3 below.[8]

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[7] The split census apportions total population that include fraction of whole numbers that sum to whole numbers when added together.

[8] Plans A1 and A2 split the census block 240338041011002 in a different manner that followed more of a point to point boundary instead of a physical feature using a sidewalk.
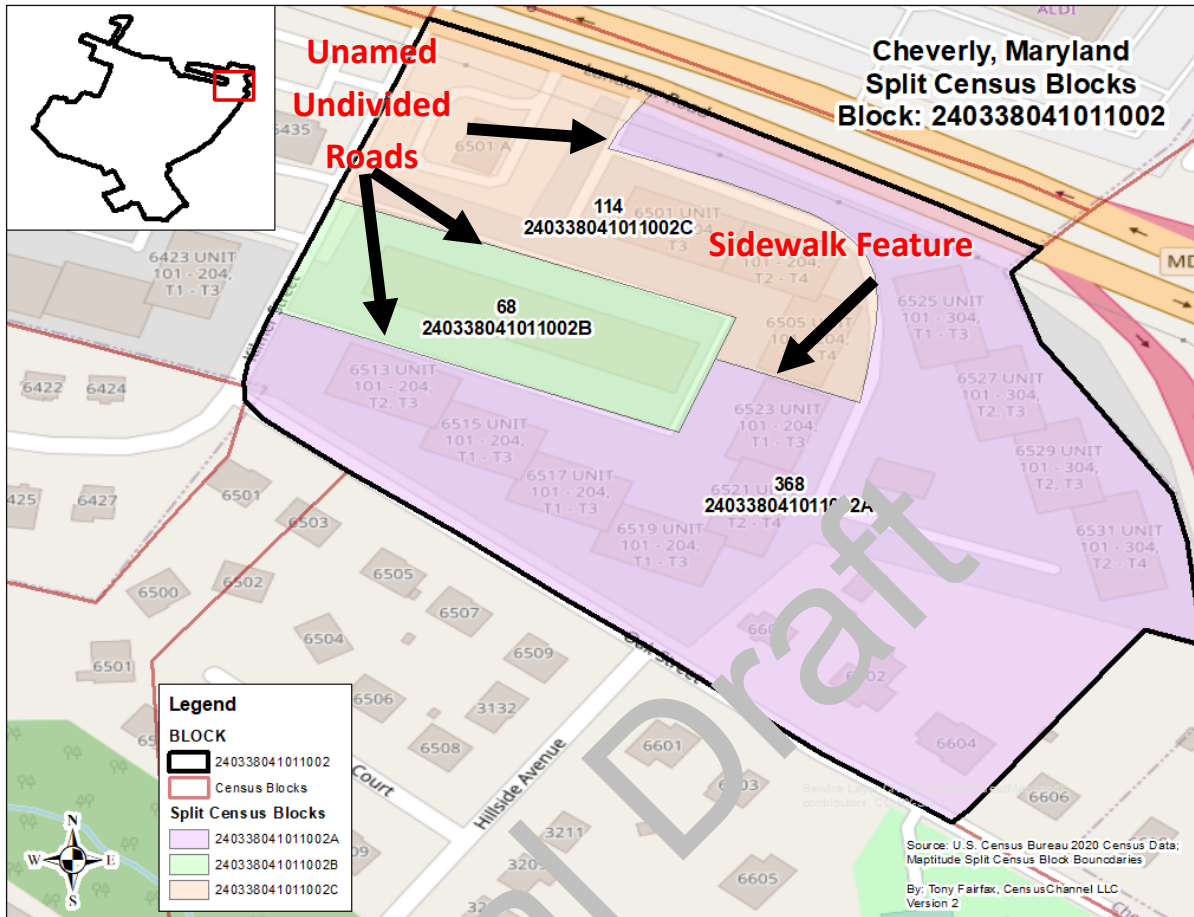
Figure 2 – Cheverly, MD Split of Census Block 240338041011002

The split census blocks, 240338041011002B and 240338041011002C, were added to Ward 5 to bring the ward population and plan within acceptable deviation. The results will be similar to the apportionment of the census block that occurred in the previous redistricting cycle.

However, formally splitting the census block will enable the U.S. Census Bureau to enumerate the population contained within the split blocks in 2030 and, thus, the recreation of the 2020 plan. Also, splitting the census block into three blocks instead of two will enable one (or both) of the Ward 5 split census blocks to be dropped if there is a significant population increase in the ward by 2030.

The U.S. Census Bureau has suggested guidelines for the boundaries of census blocks. Therefore, it is critical to adhere to these guidelines when splitting a census block. Below is a list of appropriate boundaries that census blocks should follow. The bolded items indicate potential candidates for splitting census block 240338041011002 between Wards 5 and 6.

1) Must-hold census block boundary *(see "Identifying and Numbering Census Blocks" section)*
(2) Water area *(double-line drainage)*
(3) Named, addressable divided roads *(by road class)*
(4) Named, addressable undivided roads *(by road class)*
(5) Unnamed addressable divided roads *(by road class)*
(6) Unnamed addressable undivided roads *(by road class)*
(7) Other addressable features
(8) Feature extensions *(manually inserted)*
(9) 1980 statistical/governmental unit boundary *(by category)*
(10) Main rail line feature
(11) Railyard
(12) Rail spur and other rail feature
(13) Named perennial stream *(single-line drainage)*
(14) Power transmission line

(15) Pipeline
(16) Unnamed perennial stream *(single-line drainage)*
(17) Named perennial or unclassified canal, ditch, or aqueduct
(18) Unnamed perennial or unclassified canal, ditch, or aqueduct
(19) Named intermittent stream or wash *(single-line drainage)*
(20) Named braided stream *(single-line drainage)*
(21) Unnamed braided stream *(single-line drainage)*
(22) Named intermittent canal, ditch, or aqueduct
(23) Topographic feature *(such as bluffs, cliffs)*
(24) Fence line
(25) Point-to-point line
(26) Feature extension, other than manually inserted extension
(27) Other special transport feature
(28) Physical feature not listed

Source: 2020 U.S. Census Bureau Blocks and Block Group Technical Manual

Figure 3 - U.S. Census Bureau Acceptable Census Block Boundaries

In addition to the split census block in the north end, three other census block populations were apportioned in the Current Plan (See Figure 4). In the Current Plan, the population of census blocks 240338041011004 [9], 240338041011014, and 240338041011015 appear to be partially allocated but not formally split (green area). These allocations prevent the Current Plan from being recreated exactly using the 2020 census block geography.[10]

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[9] Although census block 240338041011004 is not needed to be split in order for the plan to reach acceptable population deviation for the plan, it should be considered for splitting when the Census Bureau enters it Block Boundary Suggestion Project (shown in cyan color Figure 4).
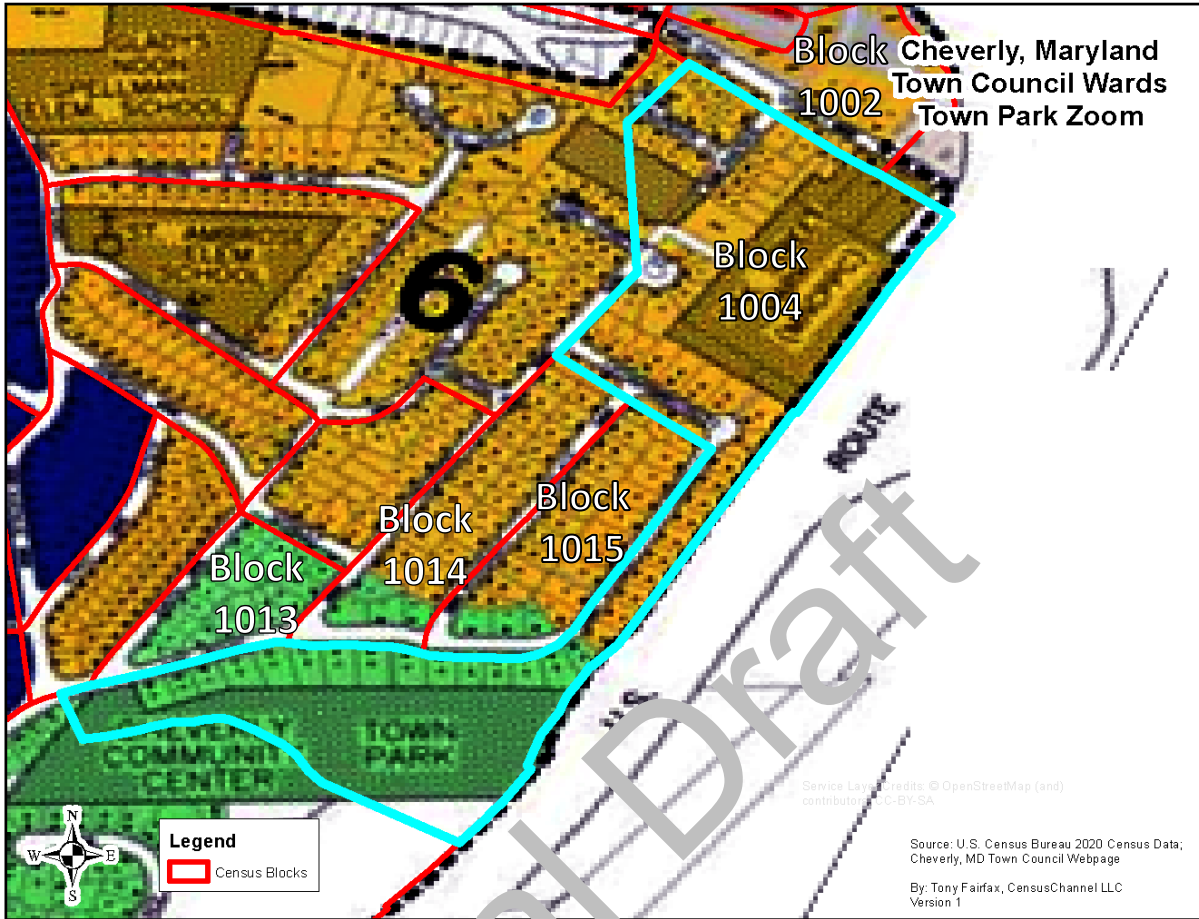[10] Without splitting another census block.

Figure 4 – Cheverly, MD Apportioned Census Blocks of Ward 4 and 6

7. Recreating the Current Plan Using 2020 Census Geography

The starting point for most plan development is the current or last approved plan. However, as previously discussed, the Current Plan cannot be recreated exactly using the 2020 Census block geography. Nevertheless, a plan can be configured that uses "whole" census blocks that approximate the Current Plan and can be used as a starting point for plan development.

To approximate the Current Plan, the apportioned census blocks must be "wholly" assigned to a ward. Hence, a common technique used to determine which ward or district to assign to an overlapping census geography is to determine the location of its centroid. The centroid is the geographic center of the census block. Thus, each ward that contained the centroid of the apportioned census block was assigned the census block. Hence, census blocks 240338041011002, 240338041011004, 240338041011014, and 240338041011015 were all allocated to Ward 6 because of the location of their centroids.

The results of the assignment of the apportioned census blocks are shown in Figure 5. Unfortunately, the result shows that Wards 4 and 5 are underpopulated while Ward 6 is overpopulated by significant

amounts. In addition, there is a noncontiguous census block contained within Ward 6 because of the assignment of census block 240338041011014 to Ward 6.
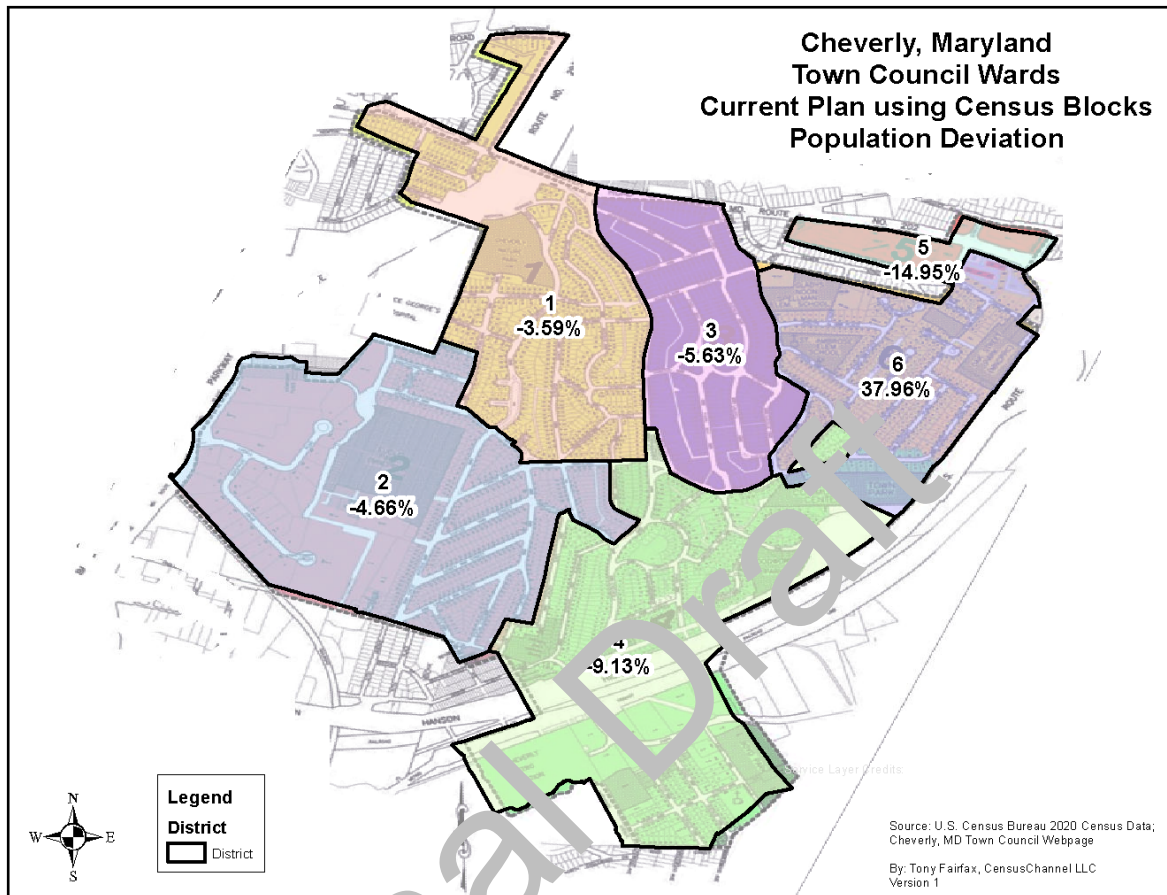

Figure 5 – Cheverly, MD Recreated Current Plan w/Current Plan Background

The allocation of apportion census blocks generated the recreated Current Plan and the starting point for the proposed plans.

Although the recreated Current Plan does not precisely depict the actual plan, it can provide some insight into the wards' demographics. Wars 1, 2, and 3 have no apportioned population and can be reproduced exactly. The others are approximations. For instance, Wards 1 & 3 are majority White (using CVAP). The recreated Current Plan Wards 4, 5, and 6 are majority Black when reviewing Citizen Voting Age Population. Wards 5 and 6 are majority Black when reviewing Voting Age Population.

Table 4 – Cheverly, MD – Recreated Current Plan Major Race/Ethnicity

Ward	Population	Deviation	% Deviation	Latino%	White%	Black%	Asian%

Cheverly, MD - Plan A1 Major Race/Ethnicity Total Population

Ward	Population	Deviation	% Deviation	Latino%	White%	Black%	Asian%
1	993	-37	-3.59%	12.49%	45.02%	35.75%	0.91%
2	982	-48	-4.66%	12.73%	48.88%	27.90%	2.55%
3	972	-58	-5.63%	12.24%	40.23%	36.83%	2.37%
4	936	-94	-9.13%	12.39%	35.79%	41.77%	4.59%
5	876	-154	-14.95%	19.41%	0.80%	76.94%	1.26%
6	1,421	391	37.96%	15.62%	19.00%	58.20%	2.32%

Cheverly, MD - Recreated Current Plan Major Race/Ethnicity Voting Age Population

Ward	VAP	Deviation	% Deviation	Latino VAP%	White VAP%	Black VAP%	Asian VAP%
1	806	-37	-3.59%	10.42%	47.54%	35.73%	0.99%
2	751	-48	-4.66%	11.85%	47.14%	31.82%	3.06%
3	746	-58	-5.63%	10.59%	39.75%	38.61%	2.41%
4	786	-94	-9.13%	9.92%	33.97%	45.93%	5.09%
5	615	-154	-14.95%	17.83%	1.14%	77.40%	1.63%
6	1,042	391	37.96%	13.74%	18.14%	62.09%	2.98%

Cheverly, MD - Recreated Current Plan Major Race/Ethnicity Citizen Voting Age Population

Ward	CVAP	Deviation	% Deviation	Latino CVAP%	White CVAP%	Black CVAP%	Asian CVAP%
1	908	-37	-3.59%	3.95%	52.47%	34.09%	4.17%
2	941	-48	-4.66%	3.07%	49.53%	42.06%	7.70%
3	561	-58	-5.63%	4.91%	54.09%	40.94%	1.27%
4	748	-94	-9.13%	3.55%	34.90%	56.31%	5.52%
5	472	-154	-14.95%	5.55%	1.89%	88.18%	0.23%
6	565	391	37.96%	5.07%	17.40%	73.46%	6.70%

Source: 2020 Census Data; 2020 5-Year ACS Data

Note: White, Black, and Asian are Not-Hispanic Alone categories

8. The Proposed Plan

Three proposed plans were developed for Town Council Wards. All plans were constructed using the "Least Change" approach. As previously mentioned, this approach is designed to make minimal changes to the existing or current boundary lines. Since the population of Cheverly has maintained throughout the decade and only decreased by three persons, the least change approach for plan development is appropriate and even warranted.

The initial two plans, A1 and A2, were preliminary plans similar to the final Plan A3. Each of these plans did not differ substantially from the other. Plan A1 differed the most from the Current Plan. In Plan A1, multiple census blocks were exchanged between the wards. Plan A2 and Plan A3 were exactly the same

except for the split of census block 40338041011002 that connects Wards 5 and 6. The small difference lies with the splitting of 40338041011002A and 40338041011002C. Ultimately, it was decided that Plan A3 split census block 40338041011002 in a more appropriate manner.

Plan A3

As with Plans A1 and A2, Wards 1 and 2 follow the current boundaries exactly as they currently stand (See Figure 6). Figure 5 shows Plan A3 with a color background of the Current Plan. As the maps show, both Wards 1 and 2 had an acceptable population deviation using the 2020 Census data and did not have to be altered.
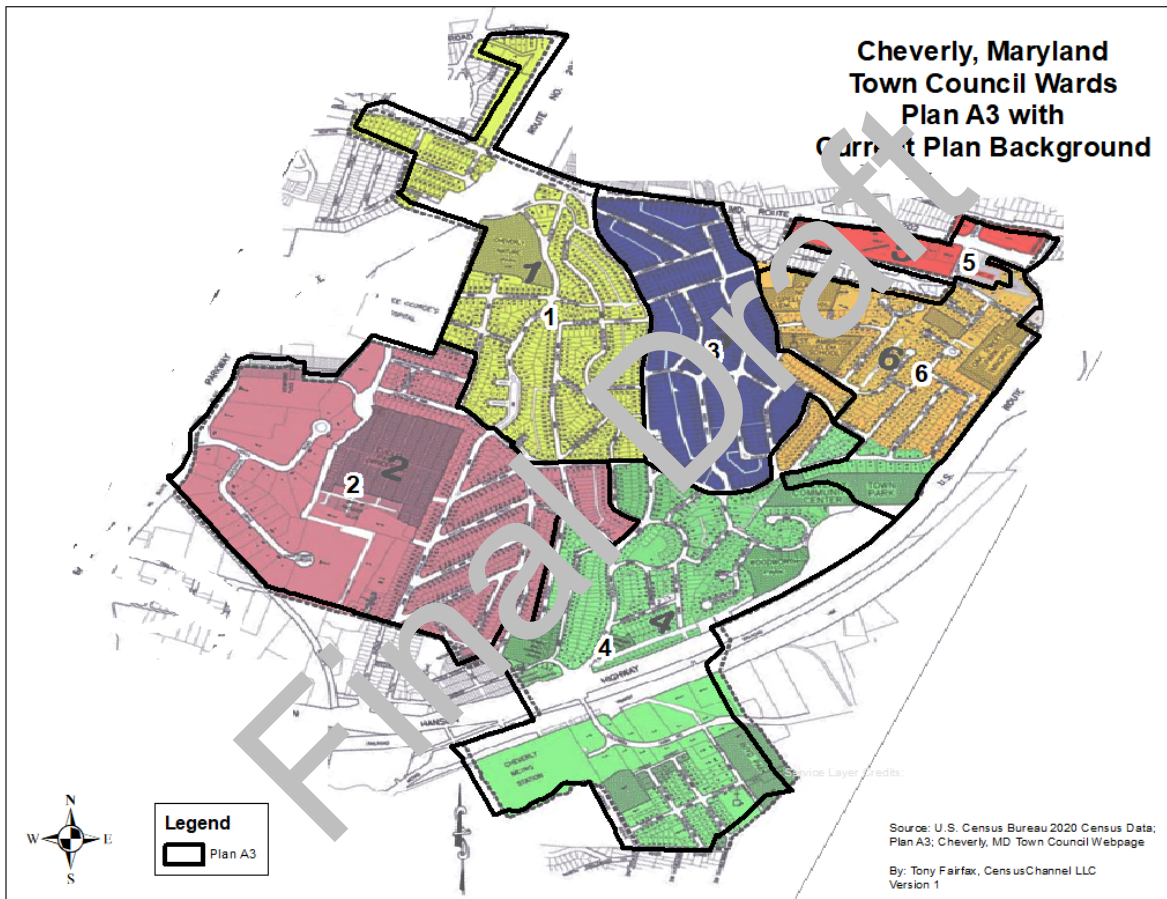

Figure 6 – Cheverly, MD Plan A3 w/Current Plan Background

The changes from the Current Plan include the following:

Wards 1 and 2 are precisely the same as the Current Plan. Figure 7 depicts Plan A3.
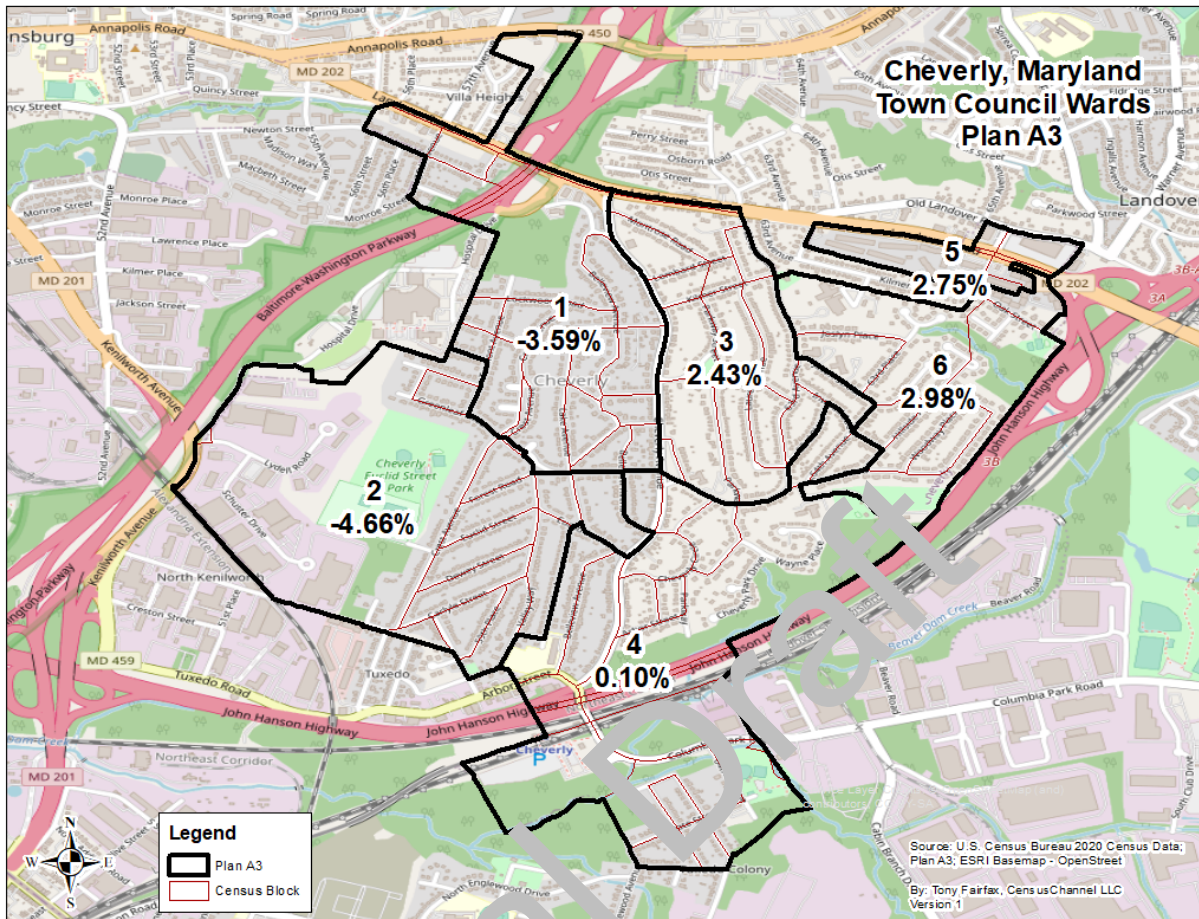
Figure 7 - Cheverly, MD Plan A3

Ward 3 is very similar to the Current Plan except for the addition of one census block (240338041011012), which is removed from Ward 6. This census block is bounded by Jason St., 64th Ave, Inwood St., and 63rd Ave. See Figure 8 in the light gold area (Current Ward 6).[11]

Ward 4 adds one census block (240338041011011) from Ward 6. The census block bounds 63rd Ave, Inwood St, and 64th Ave. The apportioned areas of census block 240338041011014 and 240338041011015 are removed from Ward 4. These areas lie along Forest Road. See Figure 8 in the light gold area (Current Ward 4).

Ward 5 has essentially the same boundaries as the current ward. In addition, Ward 5 physically adds two split census blocks (240338041011002B and 240338041011002C) instead of apportioning part of the census block to Ward 5 as in the Current Plan (See Figure 1). There appears to be an additional apartment building that is included in Ward 5 Plan A3 that is not included in the Current Plan (See Figure 9).

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[11] The Current map zoomed in (from the city map's pdf) is low-resolution and does not align with census geography.

Ward 6 consists of the removed split census blocks (240338041011002B and 240338041011002C) given to Ward 5. The remaining part of the census block (240338041011002A) is retained within Ward 6. Also, census blocks 240338041011011 and 240338041011012 were removed and added to Ward 3 and Ward 4, as previously mentioned. The apportioned areas of census block 240338041011014, 240338041011015, and 240338041011004 are added from Ward 4. See Figure 8 in the light gold area.
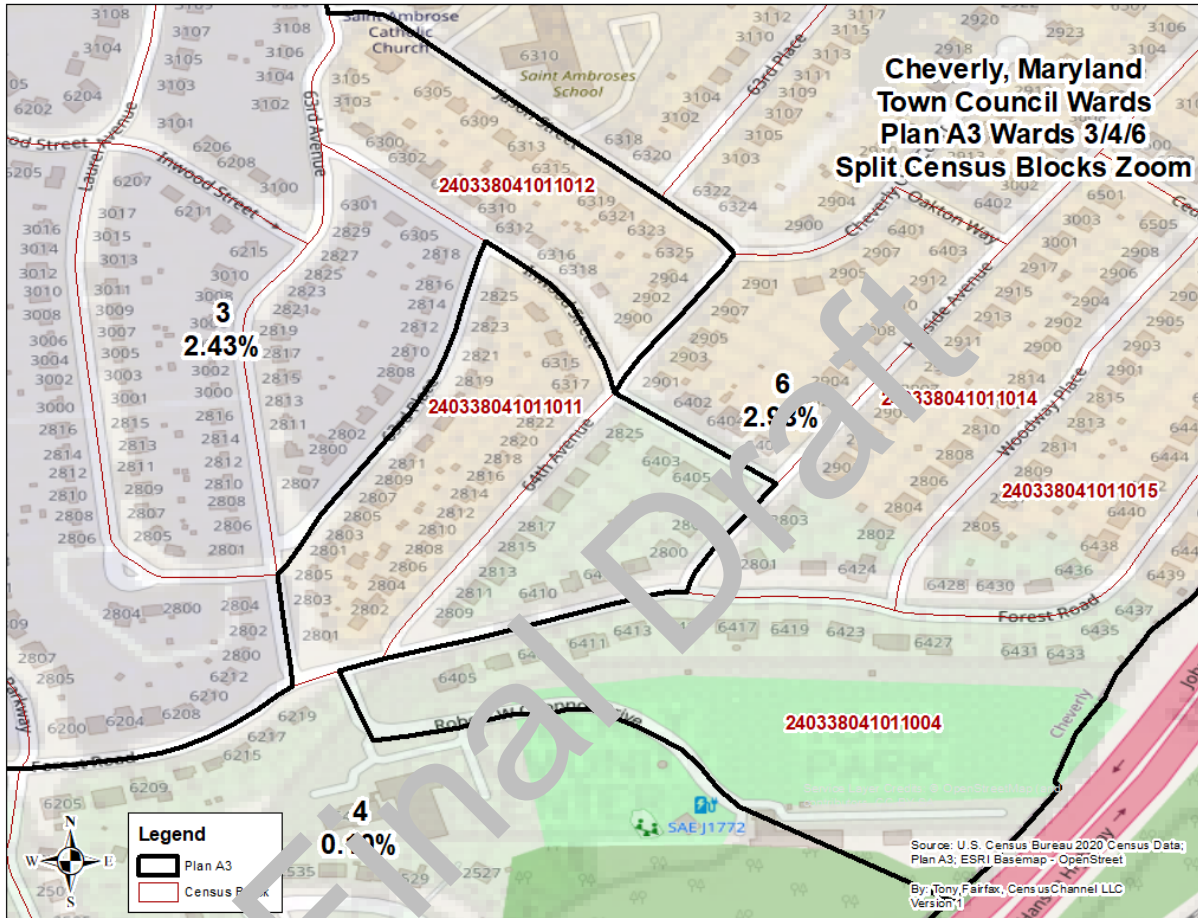

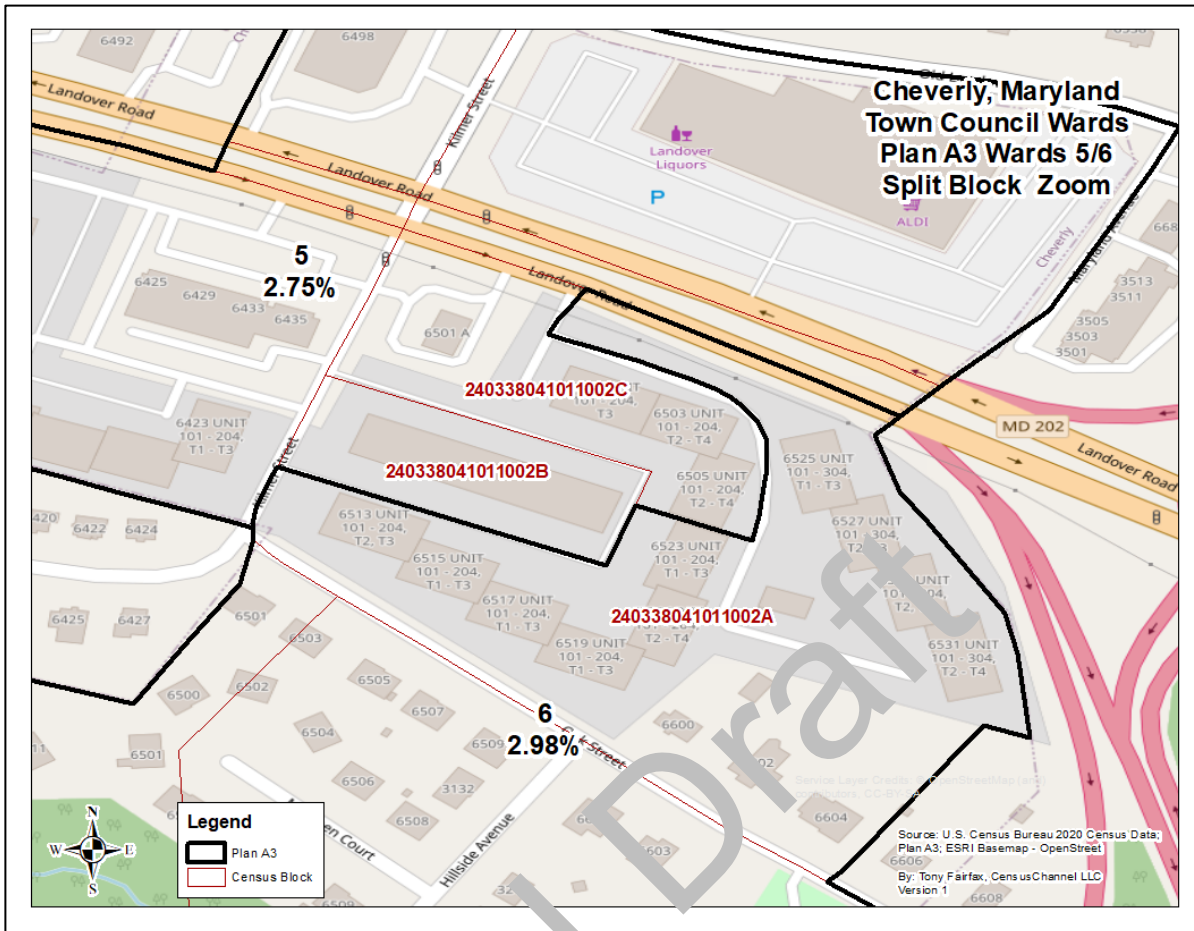Figure 8 – Cheverly, MD Plan A3 Wards 5/6 Split Census Block

Figure 9 – Cheverly, MD Plan A3 Wards 5/6 Split Census Block

Plan A3 performs well regarding traditional redistricting criteria. Specifically, contiguity, population deviation, compactness, core retention, and political subdivision splits (See Appendix A).

Contiguity and Population Deviation

Plan A3 is contiguous and has an overall population deviation of 7.67%, within the acceptable range (See Table 5).

Compactness

Plan A3 is reasonably compact and slightly numerically better than Plan A1 using three different compactness measures. The plan's mean measurements of Reock (0.39), Polsby-Popper (0.38), and Convex Hull (0.74) were used (See Appendix A & B).

Core Retention

Reviewing the percentage of areas that were retained from the Current Plan shows that Plan A3 retention range from 82.80% to 100% of the current ward population.[12]

Political Subdivision Splits

The number of Voting District (VTD) splits in Plan A3 remained the same as in the Current Plan. This is because the plan cuts through two VTDs in both plans.

Table 5 – Cheverly, MD – Plan A3 Major Race/Ethnicity

Cheverly, MD - Plan A3 Major Race/Ethnicity Total Population							
Ward	Population	Deviation	% Deviation	Latino%	White%	Black%	Asian%
1	993	-37	-3.59%	12.49%	45.0?%	35.75%	0.91%
2	982	-48	-4.66%	12.73%	4?.88%	27.90%	2.55%
3	1055	25	2.43%	12.04%	?0.0?%	36.49%	3.32%
4	1031	1	0.10%	12.51%	?6.?5%	41.03%	4.36%
5	1058	28	2.75%	18.?1%	0.91%	77.09%	1.13%
6	1061	31	2.98%	16.07?	17.85%	59.03%	1.70%
Cheverly, MD - Plan A3 Major Race/Ethnicity Voting Age Population							
Ward	VAP	Deviation	% Deviation	Latino VAP%	White VAP%	Black VAP%	Asian VAP%
1	806	-37	-3.?9%	10.42%	47.64%	35.73%	0.99%
2	751	-48	-?.66%	11.85%	47.54%	31.82%	3.06%
3	815	25	2.?5%	10.18%	40.25%	38.40%	3.68%
4	849	1	0.10%	9.78%	35.10%	45.23%	4.95%
5	742	28	2.75%	17.42%	1.21%	77.91%	1.48%
6	783	31	2.98%	14.27%	16.85%	63.47%	2.04%
Cheverly, MD - Plan A3 Major Race/Ethnicity Citizen Voting Age Population							
Ward	CVAP	Deviation	% Deviation	Latino CVAP%	White CVAP%	Black CVAP%	Asian CVAP%
1	908	-37	-3.59%	3.95%	52.47%	34.09%	4.17%
2	941	-48	-4.66%	3.07%	49.53%	42.06%	7.70%
3	620	25	2.43%	4.66%	51.16%	41.14%	5.10%
4	802	1	0.10%	3.52%	34.75%	55.45%	5.56%
5	579	28	2.75%	5.62%	1.74%	89.56%	0.47%
6	646	31	2.98%	5.34%	18.33%	75.03%	4.42%

Source: 2020 Census Data; 2020 5-Year ACS Data

Note: White, Black, and Asian are Not-Hispanic Alone categories

---

[12] The Town Park area of District 4 and 6 in the Current Plan has several apportioned census block and thus the core analysis does not exactly replicate the current plan with the exception of Wards 1,2,

Majority Minority Wards (Cursory VRA Analysis)

Since the Current Plan apportions the population of some census blocks, there is no reliable way to compare the Current Plan to Plan A3 exactly. However, comparisons can be made using the recreated Current Plan and Plan A3.

Thus, similar to the Current Plan, Plan A3 contains three majority Black wards when reviewing CVAP. These include Wards 4, 5, and 6. Ward 4 decreased in Black CVAP (BCVAP) from the Current Plan, while Wards 5 and 6 increased. Wards 5 & 6 are majority Black VAP for both the Current Plan and Plan A3. Although election analysis is not part of this effort, on the surface, it does not appear that the new configuration will alter Black voters' ability to elect candidates of choice.

Also, similar to the Current Plan, Plan A3 contains two majority White wards that exist when reviewing CVAP (WCVAP). These include Wards 1 and 3.

9. Summary

The proposed Plan A3 meets and satisfies traditional redistricting criteria as well as state and federal guidelines. Also, using the "Least Change" approach, Plan A3 does not substantially deviate from the Current Plan configuration.
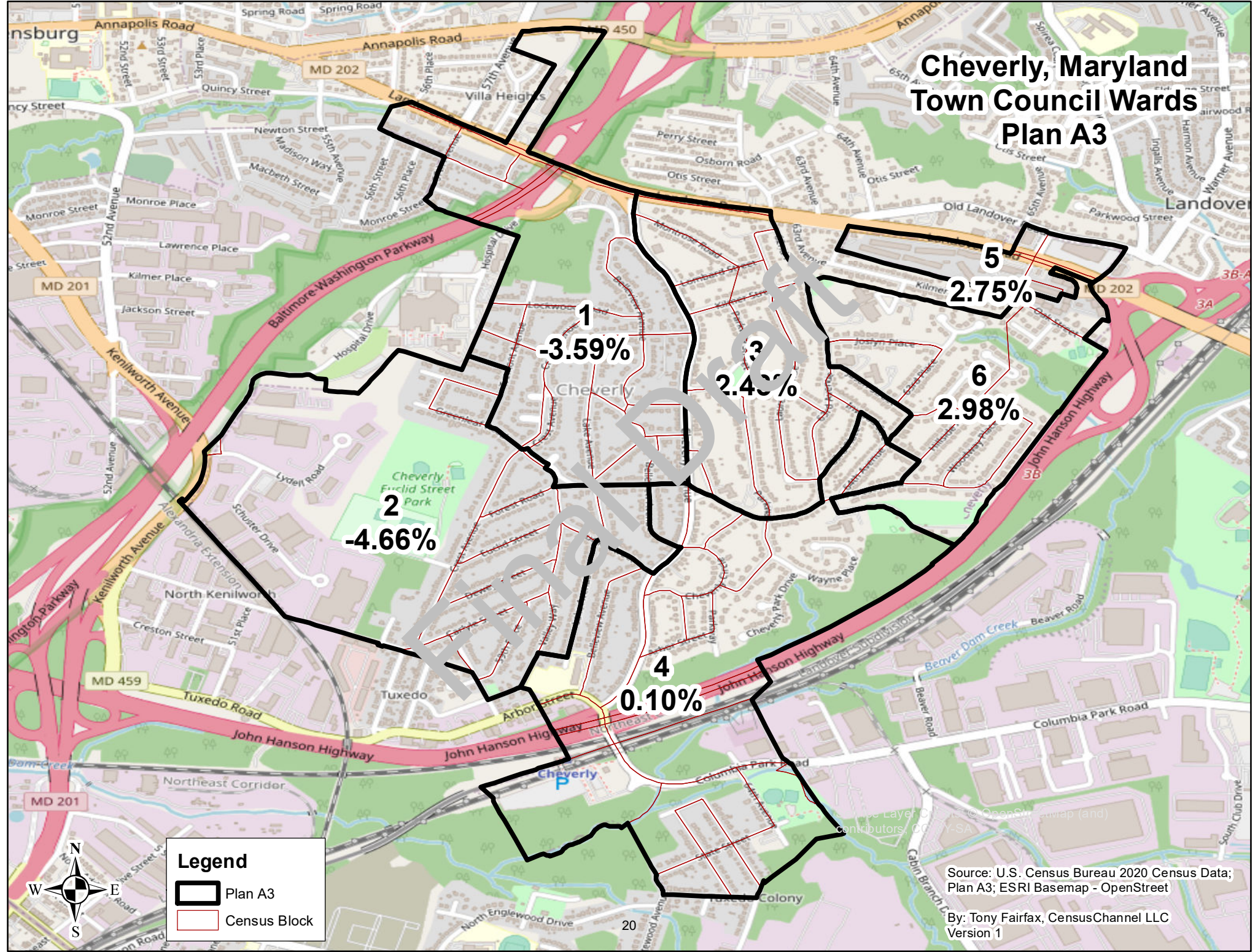
Finally, Cheverly, MD, should consider formally adjusting its census blocks in the upcoming years. Therefore, prior to or during the Census Bureau's Block Boundary Suggestion Project effort, Cheverly should consider splitting several census blocks that are relatively larger than needed for the size of the town. Splitting select census blocks will assist the town with a smoother redistricting process and a greater number of plan options in the next cycle that will occur after the 2030 decennial census.

Appendix A

Plan A3 Maps and Reports

- Plan A3 Map
- Plan A3 Map w Current Map
- Plan A3 Ward Map
- Demographic Total Report
- Demographic Voting Age Population
- Demographic Citizen Voting Age Population
- Contiguity Report
- Compactness Report
- District Core Report
- VTD
- VTD Splits

Cheverly, Maryland
Town Council Wards
Plan A3

1
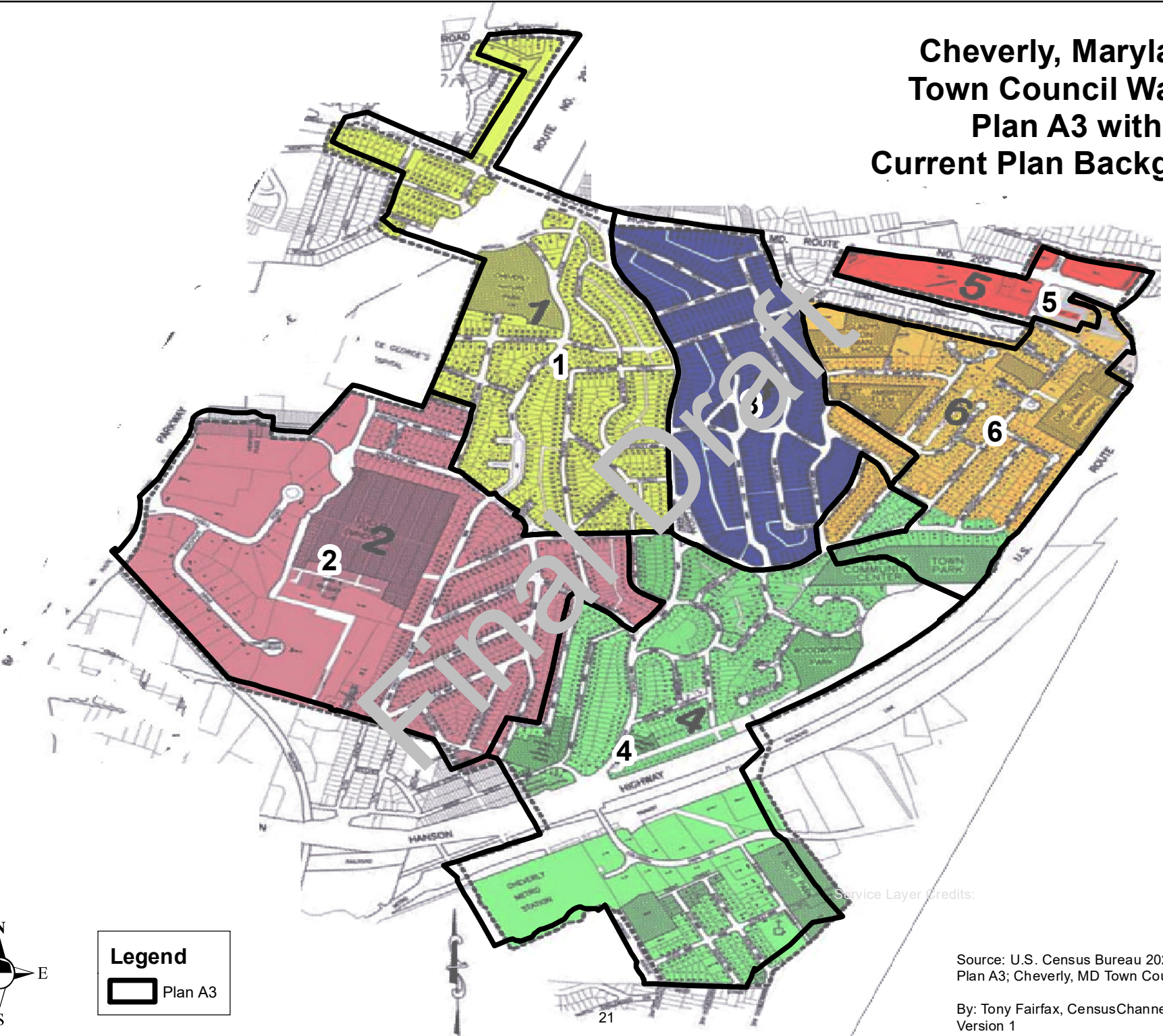-3.59%

3
2.4_%

5
2.75%

6
2.98%

2
-4.66%

4
0.10%

Final Draft

Legend

Plan A3

Census Block

N
W   E
S

Source: U.S. Census Bureau 2020 Census Data;
Plan A3; ESRI Basemap - OpenStreet

By: Tony Fairfax, CensusChannel LLC
Version 1

20

Cheverly, Maryland
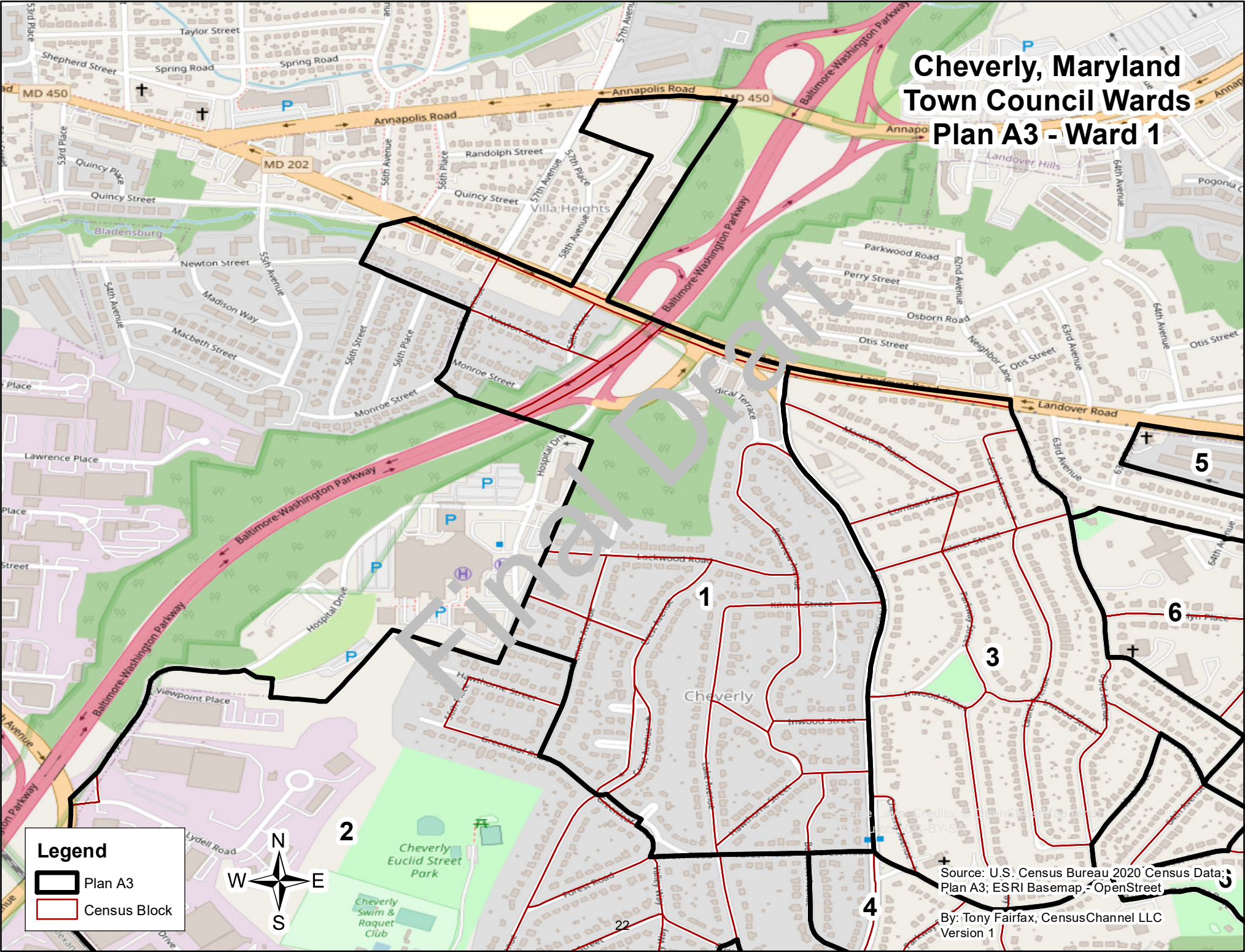Town Council Wards
Plan A3 with
Current Plan Background

Legend

Plan A3

Source: U.S. Census Bureau 2020 Census Data;
Plan A3; Cheverly, MD Town Council Webpage

By: Tony Fairfax, CensusChannel LLC
Version 1

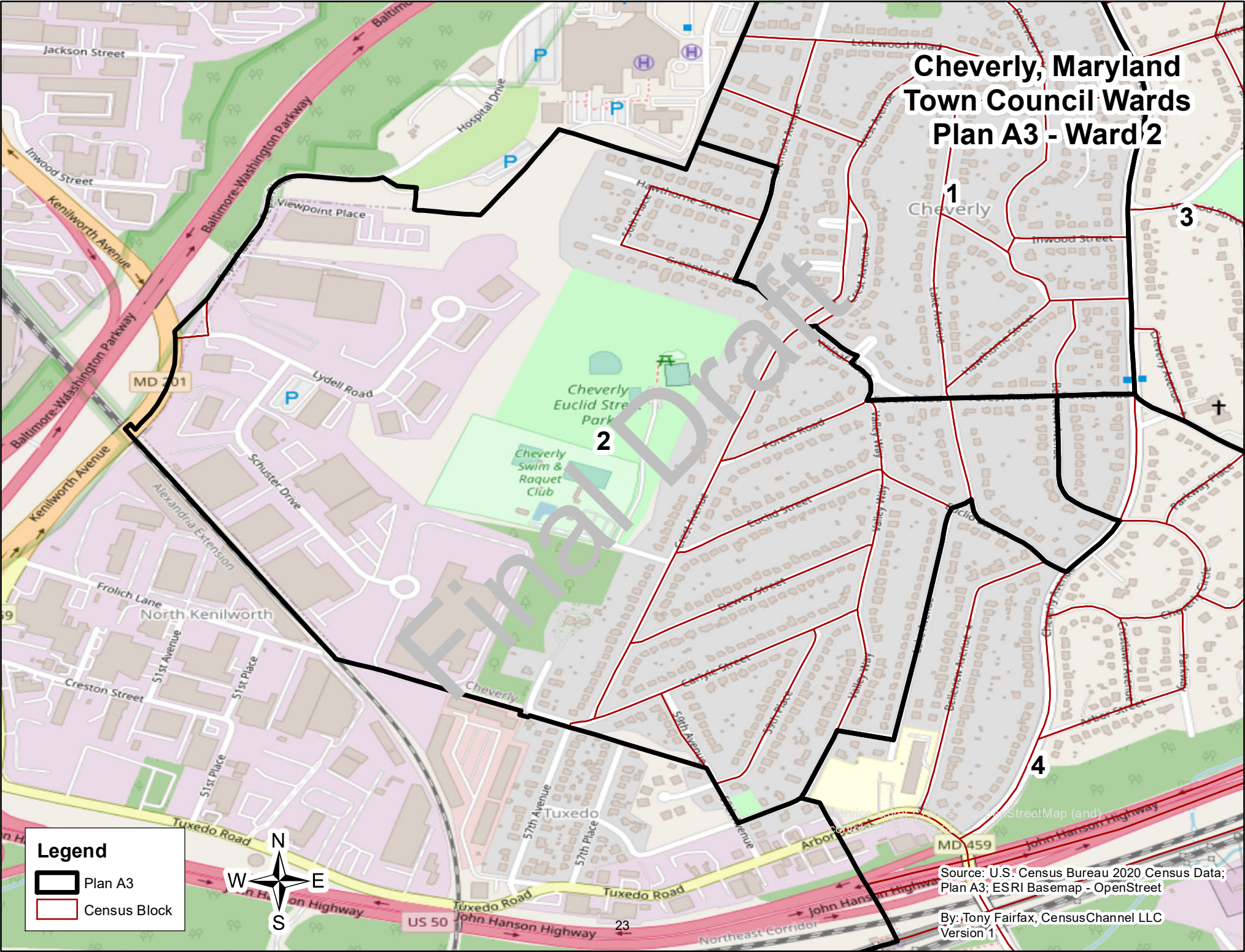# Cheverly, Maryland Town Council Wards Plan A3 - Ward 1

Legend

Plan A3	
Census Block	

N
W — E
S

1
2
3
4
5
6

**Cheverly, Maryland
Town Council Wards
Plan A3 - Ward 2**

1

3

2

4

Legend

Plan A3

Census Block

N
W E
S

23

Cheverly, Maryland
Town Council Wards
Plan A3 - Ward 3

Osborn Road

Otis Street

Neighbor Lane

Otis Street

63rd Avenue

64th Avenue

Otis Street

Landover Road

Landover Road

Medical Terrace

63rd Avenue

63rd

Cheverly

5

Kilmer Street

64th Avenue

Lockwood Road

1

Kilmer Street

Joslyn Place

Cheverly

3

6

Inwood Street

Oak Court

Inwood Street

Cheverly

4

24

Final Draft (watermark)

Legend

▬	Plan A3
▭	Census Block

N
W · E
S

**Cheverly, Maryland
Town Council Wards
Plan A3 - Ward 4**

Legend

Plan A3

Census Block

N
W   E
S

25

Cheverly, Maryland
Town Council Wards
Plan A3 - Ward 5

Landover Road

Old Landover Road

Otis Street

Otis Street

Kilmer Street

Kilmer Park and Arboretum

Gladys Noon Spellman School

Cheverly Hills Court

Joslyn Place

Oak Court

Cheverly

Cheverly

5

6

26

64th Avenue

63rd Avenue

65th Avenue

Cooper Lane

Ingalls Avenue

Parkwood Street

Hillside Avenue

Maureen Court

Oak Street

MD 202

US 50

Final Draft

Legend

▬	Plan A3
▬	Census Block

N
W E
S

Cheverly, Maryland
Town Council Wards
Plan A3 - Ward 6

Final Draft

3

6

Legend

Plan A3

Census Block

Population Summary

Tuesday, January 24, 2023   12:28 PM

District	Population	Deviation	% Devn.	[% Adj_Hispanic Origin]	[% Adj_NH_Wht]	[% Adj_NH_Blk]	[% Adj_NH_Asn]	[% Adj_NH_Hwn]
1	993	-37	-3.59%	12.49%	45.02%	35._%	0.91%	0%
2	982	-48	-4.66%	12.73%	48.88%	7.9_	2.55%	0.2%
3	1,055	25	2.43%	12.04%	40.09%	36.4_%	3.32%	0%
4	1,031	1	0.10%	12.51%	36.95%	_.03%	4.36%	0.19%
5	1,058	28	2.75%	18.94%	0.91%	7_.09%	1.13%	0%
6	1,061	31	2.98%	16.07%	_85%	59.03%	1.7%	0%

Total Adj_Population: 6,180
Ideal District Adj_Population: 1,030

Summary Statistics:

Population Range:	982 to 1,061
Ratio Range:	0.08
Absolute Range:	-48 to 31
Absolute Overall Range:	79
Relative Range:	-4._% to _.98%
Relative Overall Range:	_.67%
Absolute Mean Deviation:	2_._
Relative Mean Deviation:	2.75%
Standard Deviation:	31.73

Population Summary

Tuesday, January 24, 2023   12:31 PM

District	Population	Deviation	% Devn.	[Adj_18+ _Pop]	[% Adj_H18+ _Pop]	[% Adj_NH18 +_Wht]	[% Adj_NH18 +_Blk]	[% Adj_NH18 +_Asn]	[% Adj_NH18 +_Hwn]
1	993	-37	-3.59%	806	10.42%	47.?%	35.73%	0.99%	0%
2	982	-48	-4.66%	751	11.85%	.54%	31.82%	3.06%	0.27%
3	1,055	25	2.43%	815	10.18%	40.?%	38.4%	3.68%	0%
4	1,031	1	0.10%	849	9.78%	5.1%	45.23%	4.95%	0.24%
5	1,058	28	2.75%	742	17.42%	.21%	77.91%	1.48%	0%
6	1,061	31	2.98%	783	?27%	16.85%	63.47%	2.04%	0%

Total Adj_Population:	6,180
Ideal District Adj_Population:	1,030

Summary Statistics:

Population Range:	982 to 1,061
Ratio Range:	0.08
Absolute Range:	-48 to 31
Absolute Overall Range:	79
Relative Range:	-4.?% to ?.98%
Relative Overall Range:	?.67%
Absolute Mean Deviation:	2?.??
Relative Mean Deviation:	2.75%
Standard Deviation:	31.73

Population Summary

Tuesday, January 24, 2023   12:32 PM

District	Population	Deviation	% Devn.	CVAP_TOT20	CVAP_HSP20 [%]	CVAP_WHT20 [%]	CVAP_BLK20 [%]	CVAP_ASN20 [%]	CVAP_NHP20 [%]
1	993	-37	-3.59%	908	3.95%	52.4%	34.09%	4.17%	0%
2	982	-48	-4.66%	941	3.07%	.53%	42.06%	7.7%	0%
3	1,055	25	2.43%	620	4.66%	51.%	41.14%	5.1%	0%
4	1,031	1	0.10%	802	3.52%	.75%	55.45%	5.56%	0%
5	1,058	28	2.75%	579	5.62%	.74%	89.56%	0.47%	0%
6	1,061	31	2.98%	646	.34%	18.33%	75.03%	4.42%	0%

Total Adj_Population:	6,180
Ideal District Adj_Population:	1,030

Summary Statistics:

Population Range:	982 to 1,061
Ratio Range:	0.08
Absolute Range:	-48 to 31
Absolute Overall Range:	79
Relative Range:	-4. % to .98%
Relative Overall Range:	.67%
Absolute Mean Deviation:	2.
Relative Mean Deviation:	2.75%
Standard Deviation:	31.73

Contiguity Report

Tuesday, January 24, 2023   12:33 PM

District	Number of Distinct Areas
1	1
2	1
3	1
4	1
5	1
6	1

Measures of Compactness Report

Tuesday, January 24, 2023   12:34 PM

	Reock	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A
Min	0.22	0.29	0.67
Max	0.62	0.53	0.84
Mean	0.39	0.38	0.75
Std. Dev.	0.14	0.11	0.07

District	Reock	Polsby-Popper	Area/Convex Hull
1	0.30	0.30	0.67
2	0.62	0.53	0.84
3	0.38	0.50	0.81
4	0.38	0.29	0.67
5	0.22	0.31	0.79
6	0.45	0.37	0.72

Measures of Compactness Summary

Reock	The measure is always between 0 and 1, with 1 being the most compact.
Polsby-Popper	The measure is always between 0 and 1, with 1 being the most compact.
Area / Convex Hull	The measure is always between 0 and 1, with 1 being the most compact.

Core Constituencies

Tuesday, January 24, 2023   4:54 PM

From Plan: **Cheverly MD CC Current Plan v3**

Plan: Cheverly MD Plan A3, District 1 --   993 Total Population

	Adj_Population	[Adj_Hispanic Origin]	Adj_NH_Wht	Adj_NH_Blk	Adj_NH_Asn
Dist. 1	993 (100.00%)	124 (100.00%)	447 (100.00%)	355 (100.00%)	9 (100.00%)
Total and % Population		124 (12.49%)	447 (45.02%)	355 (35.75%)	9 (0.91%)

Plan: Cheverly MD Plan A3, District 2 --   982 Total Population

	Adj_Population	[Adj_Hispanic Origin]	Adj_NH_Wht	Adj_NH_Blk	Adj_NH_Asn
Dist. 2	982 (100.00%)	125 (100.00%)	480 (100.00%)	274 (100.00%)	25 (100.00%)
Total and % Population		125 (12.73%)	480 (48.88%)	274 (27.90%)	25 (2.55%)

Plan: Cheverly MD Plan A3, District 3 --   1,055 Total Population

	Adj_Population	[Adj_Hispanic Origin]	Adj_NH_Wht	Adj_NH_Blk	Adj_NH_Asn
Dist. 3	972 (92.13%)	119 (93.70%)	391 (92.43%)	358 (92.99%)	23 (65.71%)
Dist. 4	0 (0.00%)	0 (0.00%)	(0.00%)	(0.00%)	(0.00%)
Dist. 6	83 (7.87%)	8 (6.30%)	32 (7.57%)	27 (7.01%)	12 (34.29%)
Total and % Population		127 (12.04%)	423 (40.09%)	385 (36.49%)	35 (3.32%)

Plan: Cheverly MD Plan A3, District 4 --   1,031 Total Population

	Adj_Population	[Adj_Hispanic Origin]	Adj_NH_Wht	Adj_NH_Blk	Adj_NH_Asn
Dist. 4	936 (90.79%)	116 (89.92%)	335 (87.93%)	391 (92.43%)	43 (95.56%)
Dist. 6	95 (9.21%)	13 (10.08%)	46 (12.07%)	32 (7.57%)	2 (4.44%)
Total and % Population		129 (12.51%)	381 (36.95%)	423 (41.03%)	45 (4.36%)

Plan: Cheverly MD Plan A3, District 5 --   1,058 Total Population

	Adj_Population	[Adj_Hispanic Origin]	Adj_NH_Wht	Adj_NH_Blk	Adj_NH_Asn
Dist. 5	876 (82.80%)	170 (85.00%)	7 (87.50%)	674 (82.80%)	11 (100.00%)
Dist. 6	182 (17.20%)	30 (15.00%)	1 (12.50%)	140 (17.20%)	(0.00%)
Total and % Population		200 (18.90%)	8 (0.76%)	814 (76.94%)	11 (1.04%)

Plan: Cheverly MD Plan A3, District 6 --   1,060 Total Population

	Adj_Population	[Adj_Hispanic Origin]	Adj_NH_Wht	Adj_NH_Blk	Adj_NH_Asn

From Plan: **Cheverly MD CC Current Plan
                 v3**

Dist. 6	1,060 (100.00%)	170 (100.00%)	189 (100.00%)	626 (100.00%)	18 (100.00%)
Total and % Population		170 (16.04%)	189 (17.83%)	626 (59.06%)	18 (1.70%)

Final Draft

Communities of Interest (Landscape, 11x8.5)

Tuesday, January 24, 2023   2:30 PM

Voting District	District	Adj_Population	%
2403302-003	3	1,055	28.2
2403302-003	4	570	15.2
2403302-003	5	1,058	28.3
2403302-003	6	1,061	28.3
2403302-007	1	842	40.0
2403302-007	2	982	46.7
2403302-007	4	280	13.3

Final Draft

Maptitude For Redistricting

Voting District	-- Listed by District	
	Adj_Population	%
2403302-007 (part)	842	40.0
District 1 Totals	**993**	
2403302-007 (part)	982	46.7
District 2 Totals	**982**	
2403302-003 (part)	1,055	28.2
District 3 Totals	**1,055**	
2403302-003 (part)	570	15.2
2403302-007 (part)	280	13.3
2403313-002	0	0.0
District 4 Totals	**1,031**	
2403302-003 (part)	1,058	28.3
2403302-009	0	0.0
District 5 Totals	**1,058**	
2403302-003 (part)	1,061	28.3
District 6 Totals	**1,061**	

Summary Statistics

Number of Voting District not split	5
Number of Voting District split	2
Number of Voting District split in 2	0
Number of Voting District split in 3	1
Number of Voting District split in 4	1
Total number of splits	7

Final Draft

Voting District by District and by County

	Adj_Population	% of District
District 1		
2403302-001	139	100.00%
2403302-007	842	40.02%
2403302-008	12	100.00%
Total District 1	**993**	
District 2		
2403302-007	982	46.67%
Total District 2	**982**	
District 3		
2403302-003	1,055	28.18%
Total District 3	**1,055**	
District 4		
2403302-003	570	15.22%
2403302-007	280	13.31%
2403313-002	0	0.00%
2403318-012	181	100.00%
Total District 4	**1,031**	
District 5		
2403302-003	1,058	28.27%
2403302-009	0	0.00%
Total District 5	**1,058**	
District 6		
2403302-003	1,061	28.33%
Total District 6	**1,061**	

Appendix B

Current Plan Maps and Reports
(Recreated using Whole 2020 Census Blocks)

- Current Plan Map
- Current Plan Ward Map
- Demographic Total Report
- Demographic Voting Age Population
- Demographic Citizen Voting Age Population
- Contiguity Report
- Compactness Report
- VTDs
- VTD Splits

Cheverly, Maryland
Town Council Wards
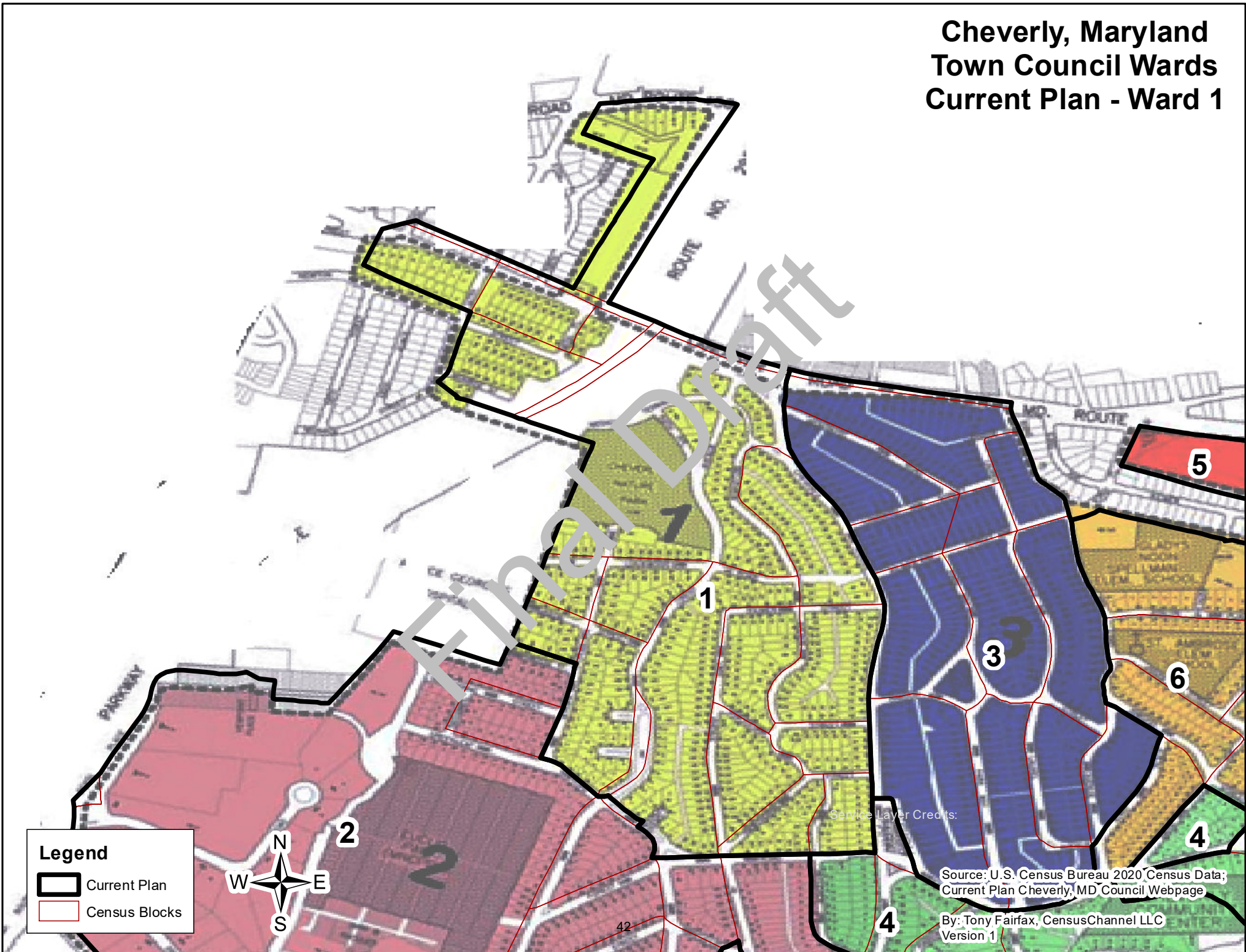# Current Plan using Census Blocks
Population Deviation

1
-3.59%

3
-5.03%

5
-14.95%

6
37.96%

2
-4.66%

4
-9.13%

Final Draft
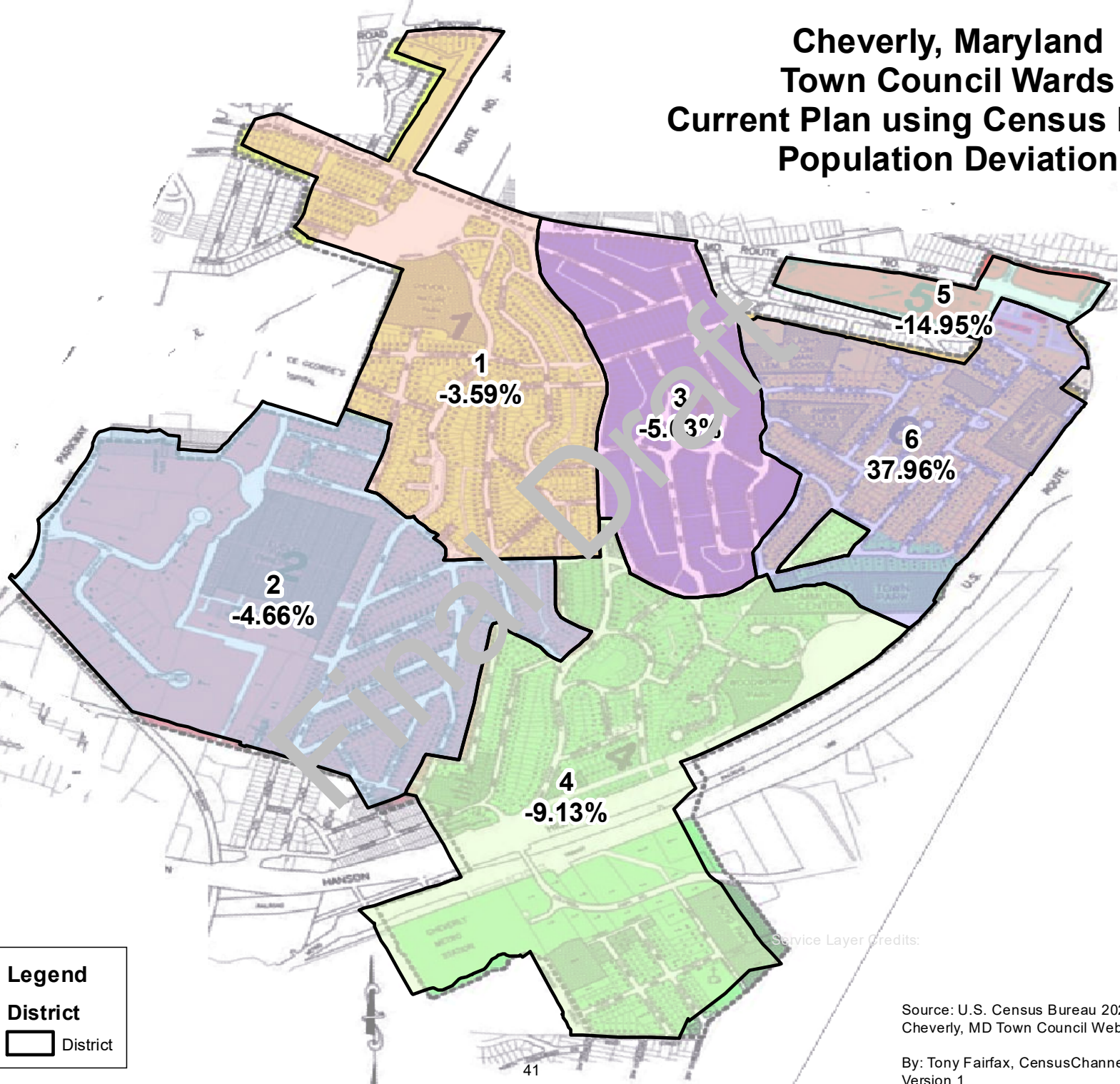
Legend

District

☐ District

N
W E
S

Source: U.S. Census Bureau 2020 Census Data;
Cheverly, MD Town Council Webpage

By: Tony Fairfax, CensusChannel LLC
Version 1

41

Legend

Current Plan

Census Blocks

N
W E
S

1

2

3

4

5

6

42

Source: U.S. Census Bureau 2020 Census Data;
Current Plan Cheverly, MD Council Webpage

By: Tony Fairfax, CensusChannel LLC
Version 1

Final Draft
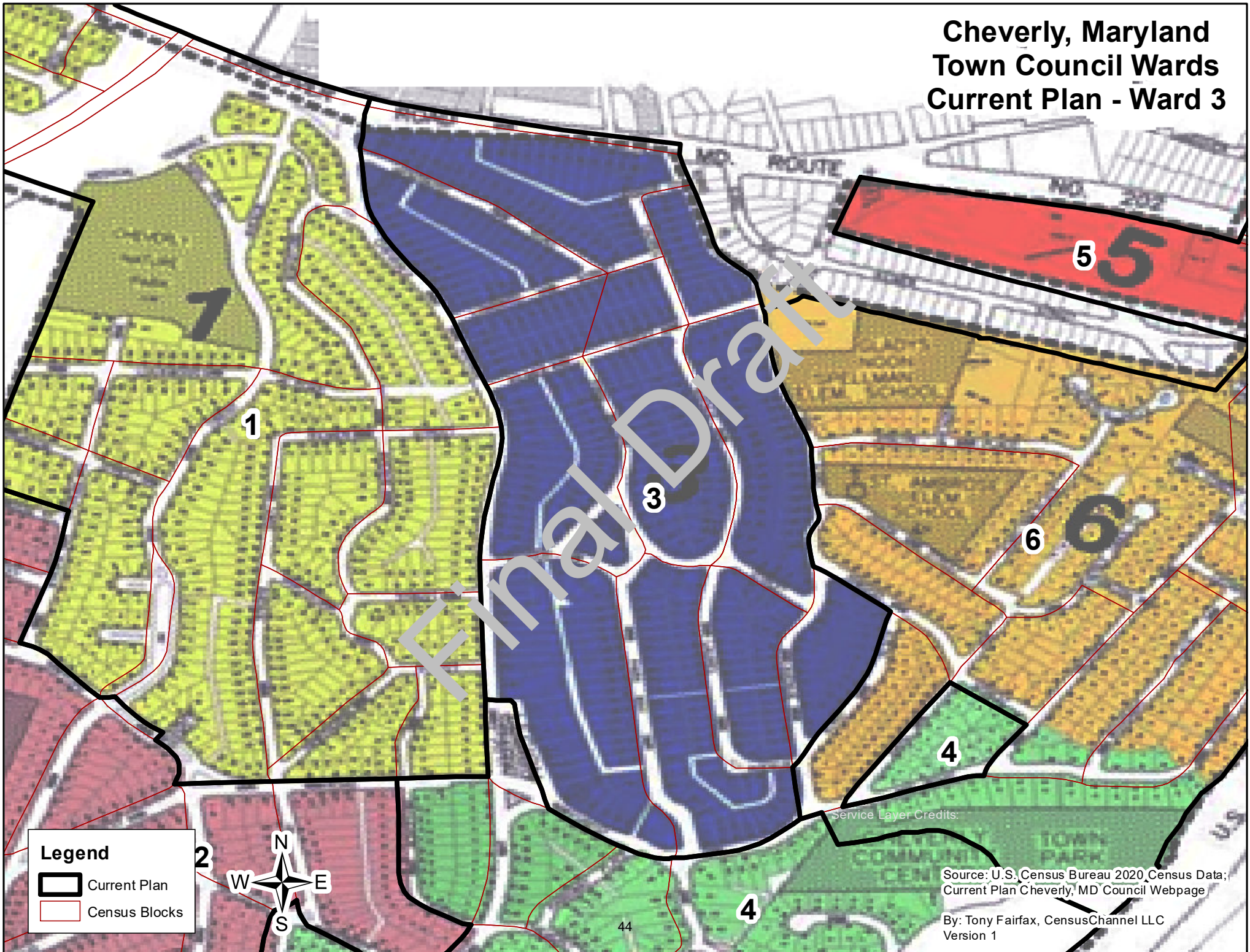
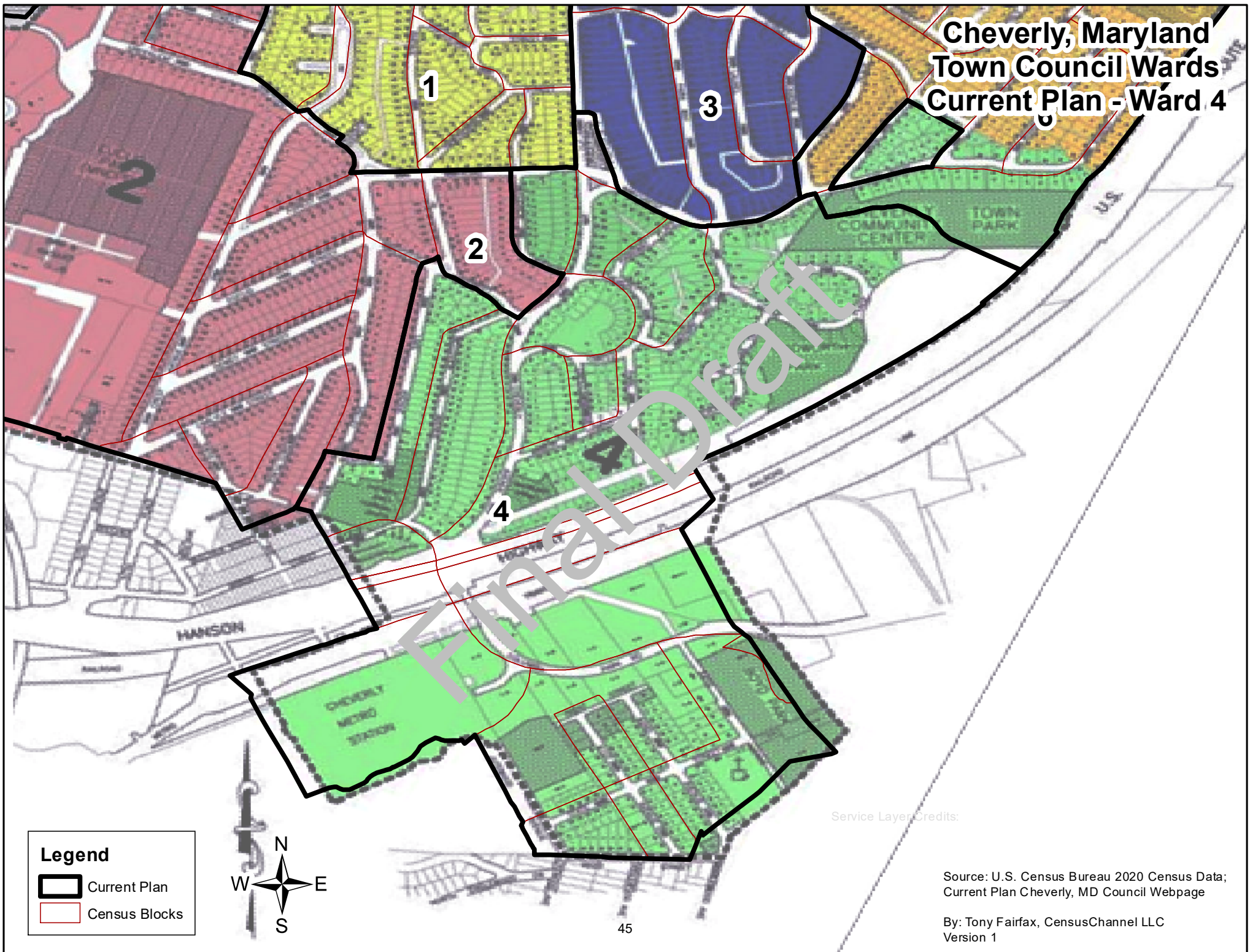# Cheverly, Maryland
Town Council Wards
Current Plan - Ward 2

1

3

2

2

4

4

Legend

Current Plan

Census Blocks

N
W E
S

43

Final Draft

Final Draft

Legend

Current Plan

Census Blocks

N
W   E
S

44

Cheverly, Maryland
Town Council Wards
Current Plan - Ward 4

Legend

Current Plan

Census Blocks

N
W   E
S

ROUTE

5

3

6

6
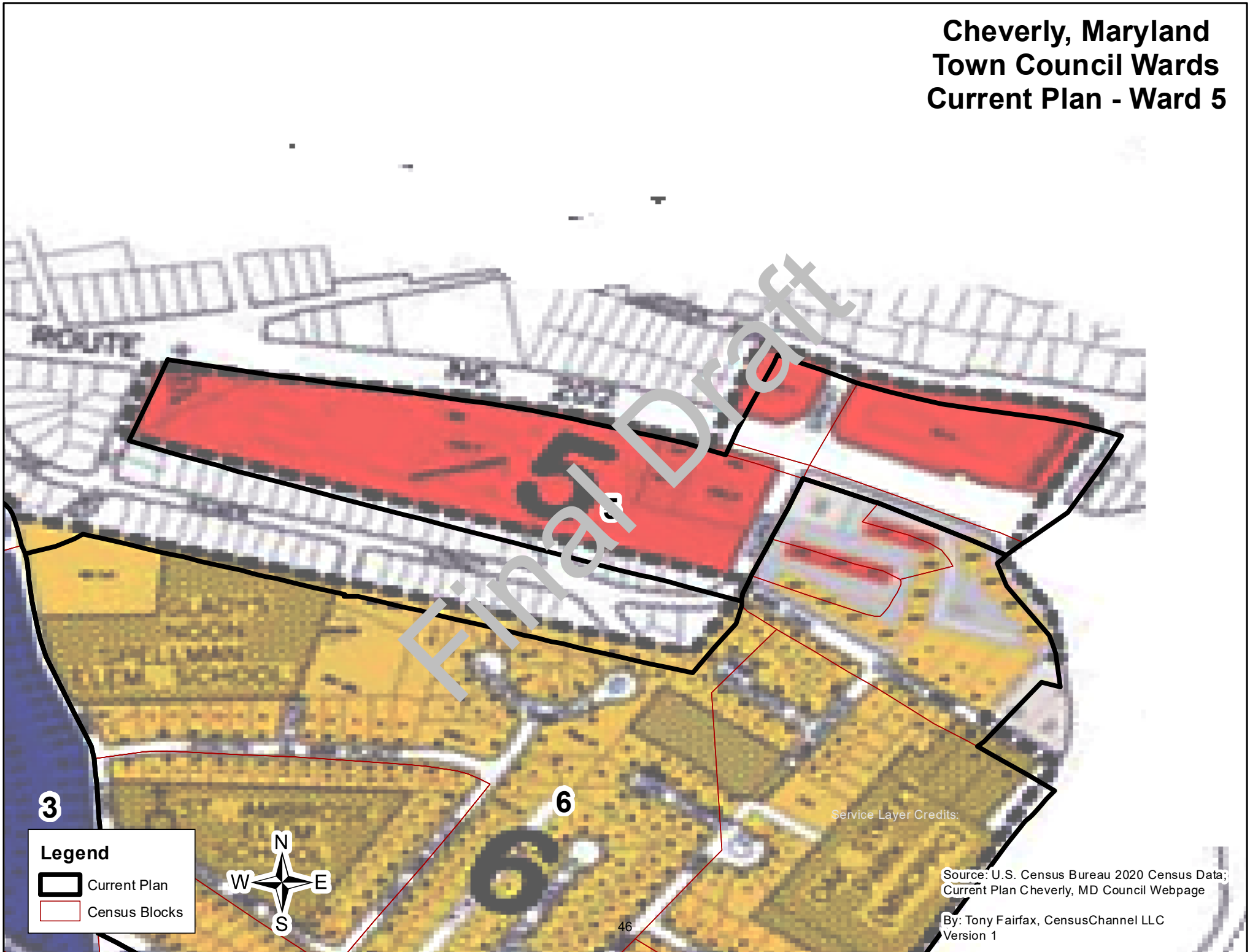
46
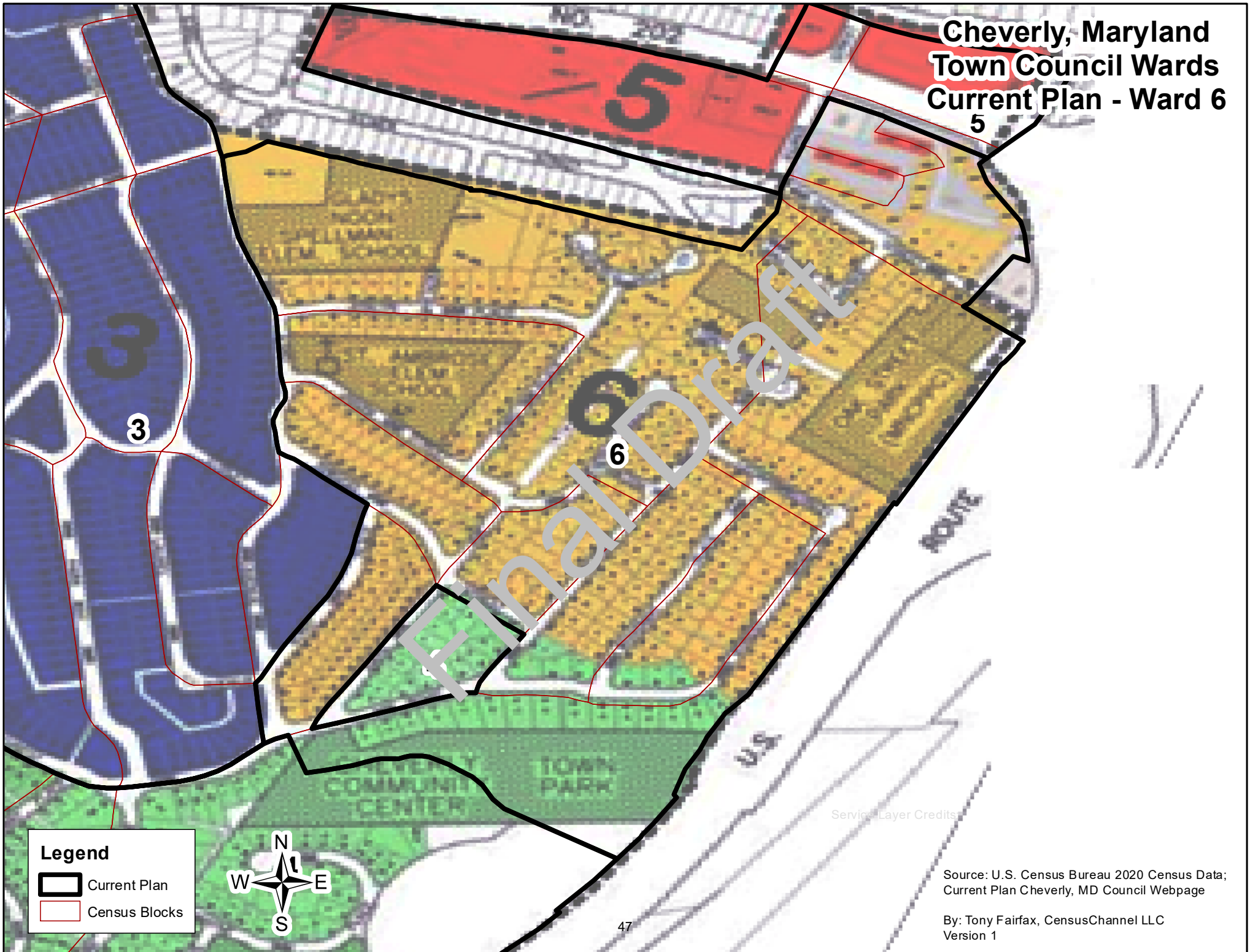
Legend

Current Plan

Census Blocks

N
W   E
S

Service Layer Credits:

Final Draft

5

3

3

6

6

Final Draft

ROUTE

U.S.

COMMUNITY
CENTER

TOWN
PARK

Service Layer Credits

Legend

Current Plan

Census Blocks

N
W   E
S

47

Population Summary

Wednesday, November 9, 2022   10:29 PM

District	Population	Deviation	% Devn.	[% Adj_Hispanic Origin]	[% Adj_NH_Wht]	[% Adj_NH_Blk]	[% Adj_NH_Asn]	[% Adj_NH_Hwn]
1	993	-37	-3.59%	12.49%	45.02%	35.?%	0.91%	0%
2	982	-48	-4.66%	12.73%	48.88%	7.9%	2.55%	0.2%
3	972	-58	-5.63%	12.24%	40.23%	36.8 %	2.37%	0%
4	936	-94	-9.13%	12.39%	35.79%	4. 77%	4.59%	0.21%
5	876	-154	-14.95%	19.41%	0.8%	7 .94%	1.26%	0%
6	1,421	391	37.96%	15.62%	19%	58.2%	2.32%	0%

Total Adj_Population: 6,180

Ideal District Adj_Population: 1,030

Summary Statistics:

Population Range:	876 to 1,421
Ratio Range:	0.62
Absolute Range:	-154 to 391
Absolute Overall Range:	545
Relative Range:	-14. 5% to 37.9 %
Relative Overall Range:	2.91%
Absolute Mean Deviation:	1 . .
Relative Mean Deviation:	12.6 %
Standard Deviation:	179.11

Population Summary

Wednesday, November 9, 2022 | 10:30 PM

District	Population	Deviation	% Devn.	[Adj_18+ _Pop]	[% Adj_H18+ _Pop]	[% Adj_NH18 +_Wht]	[% Adj_NH18 +_Blk]	[% Adj_NH18 +_Asn]	[% Adj_NH18 +_Hwn]
1	993	-37	-3.59%	806	10.42%	47.?%	35.73%	0.99%	0%
2	982	-48	-4.66%	751	11.85%	.54%	31.82%	3.06%	0.27%
3	972	-58	-5.63%	746	10.59%	40.?%	38.61%	2.41%	0%
4	936	-94	-9.13%	786	9.92%	.97%	45.93%	5.09%	0.25%
5	876	-154	-14.95%	615	17.89%	.14%	77.4%	1.63%	0%
6	1,421	391	37.96%	1,042	.44%	18.14%	62.09%	2.98%	0%

Total Adj_Population: 6,180

Ideal District Adj_Population: 1,030

Summary Statistics:

Population Range:	876 to 1,421
Ratio Range:	0.62
Absolute Range:	-154 to 391
Absolute Overall Range:	545
Relative Range:	-14.95% to 37.96%
Relative Overall Range:	52.91%
Absolute Mean Deviation:	1?.??
Relative Mean Deviation:	12.65%
Standard Deviation:	179.11

Population Summary

Wednesday, November 9, 2022	10:31 PM

District	Population	Deviation	% Devn.	CVAP_TOT20	[% CVAP_HSP20]	[% CVAP_WHT20]	[% CVAP_BLK20]	[% CVAP_ASN20]	[% CVAP_NHP20]
1	993	-37	-3.59%	908	3.95%	52.4%	34.09%	4.17%	0%
2	982	-48	-4.66%	941	3.07%	.53%	42.06%	7.7%	0%
3	972	-58	-5.63%	561	4.91%	54.0%	40.94%	1.27%	0%
4	936	-94	-9.13%	748	3.55%	4.9%	56.31%	5.52%	0%
5	876	-154	-14.95%	472	5.55%	.89%	88.18%	0.23%	0%
6	1,421	391	37.96%	865	.07%	17.4%	73.46%	6.7%	0%

Total Adj_Population:	6,180
Ideal District Adj_Population:	1,030

Summary Statistics:

Population Range:	876 to 1,421
Ratio Range:	0.62
Absolute Range:	-154 to 391
Absolute Overall Range:	545
Relative Range:	-14.95% to 37.96%
Relative Overall Range:	52.91%
Absolute Mean Deviation:	130.33
Relative Mean Deviation:	12.65%
Standard Deviation:	179.11

Contiguity Report

Wednesday, November 9, 2022   10:31 PM

District	Number of Distinct Areas
1	1
2	1
3	1
4	2
5	1
6	1

Final Draft

Measures of Compactness Report

Wednesday, November 9, 2022   10:29 PM

	Reock	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A
Min	0.20	0.29	0.66
Max	0.62	0.58	0.87
Mean	0.40	0.40	0.76
Std. Dev.	0.15	0.13	0.09

District	Reock	Polsby-Popper	Area/Convex Hull
1	0.30	0.30	0.67
2	0.62	0.53	0.84
3	0.35	0.58	0.87
4	0.39	0.29	0.66
5	0.20	0.32	0.72
6	0.52	0.38	0.79

Measures of Compactness Summary

Reock	The measure is always between 0 and 1, with 1 being the most compact.
Polsby-Popper	The measure is always between 0 and 1, with 1 being the most compact.
Area / Convex Hull	The measure is always between 0 and 1, with 1 being the most compact.

Communities of Interest (Landscape, 11x8.5)

Thursday, November 10, 2022   7:13 PM

Voting District	District	Adj_Population	%
2403302-003	3	972	26.0
2403302-003	4	475	12.7
2403302-003	5	876	23.4
2403302-003	6	1,421	38.0
2403302-007	1	842	40.0
2403302-007	2	982	46.7
2403302-007	4	280	13.3

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Voting District	-- Listed by District	
	Adj_Population	%
2403302-007 (part)	842	40.0
District 1 Totals	**993**	
2403302-007 (part)	982	46.7
District 2 Totals	**982**	
2403302-003 (part)	972	26.0
District 3 Totals	**972**	
2403302-003 (part)	475	12.7
2403302-007 (part)	280	13.3
2403313-002	0	0.0
District 4 Totals	**936**	
2403302-003 (part)	876	23.4
2403302-009	0	0.0
District 5 Totals	**8 6**	
2403302-003 (part)	1,421	38.0
District 6 Totals	**1,421**	

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Summary Statistics

Number of Voting District not split	5
Number of Voting District split	2
Number of Voting District split in 2	0
Number of Voting District split in 3	1
Number of Voting District split in 4	1
Total number of splits	7

Voting District by District and by County

	Adj_Population	% of District
District 1		
2403302-001	139	100.00%
2403302-007	842	40.02%
2403302-008	12	100.00%
Total District 1	**993**	
District 2		
2403302-007	982	46.67%
Total District 2	**982**	
District 3		
2403302-003	972	25.96%
Total District 3	**972**	
District 4		
2403302-003	475	12.69%
2403302-007	280	13.31%
2403313-002	0	0.00%
2403318-012	181	100.00%
Total District 4	**936**	
District 5		
2403302-003		20.40%
2403302-009	0	0.00%
Total District 5	**76**	
District 6		
2403302-003	1,421	37.95%
Total District 6	**1,421**	