# STATE OF NORTH CAROLINA

COUNTY OF WAKE

### IN THE GENERAL COURT OF JUSTICE SUPERIOR COURT DIVISION No. 21 CVS 500085

REBECCA HARPER, et al.,

Plaintiffs,

v.

REPRESENTATIVE DESTIN HALL, IN HIS OFFICIAL CAPACITY AS SENIOR CHAIR OF THE HOUSE STANDING COMMITTEE ON REDISTRICTING, *et al.*,

Defendants.

I, Lalith D. Madduri, declare and say as follows:

1. I am over the age of eighteen (18) and competent to testify as to the matters set

con

forth herein.

2. I am a counsel with the law firm Elias Law Group LLP and one of the attorneys representing Plaintiffs in this case.

3. I submit this declaration in support of Plaintiffs' Motion for a Preliminary

Injunction.

4. Attached as Exhibit A is a true and correct copy of the order granting plaintiffs' motion for a preliminary injunction in *Harper v. Lewis*, No. 19-CVS-012667 (N.C. Super Ct. Oct. 28, 2019).

5. Attached as Exhibit B is a true and correct copy of the order enjoining the filing period for congressional elections in *Harper v. Lewis*, No. 19-CVS-012667 (N.C. Super. Ct. Nov. 20, 2019).

# DECLARATION OF LALITHA D. MADDURI

Attached as Exhibit C is a true and correct copy of the transcript of the hearing on plaintiffs' motion for summary judgment in *Harper v. Lewis*, No. 19-CVS-012667 (N.C. Super. Ct. Nov. 20, 2019).

7. Attached as Exhibit D is a true and correct copy of the Redistricting Criteria for the 2021 Congressional Plan adopted by the North Carolina House Committee on Redistricting and Senate Committee on Redistricting and Elections on August 12, 2021.

8. Attached as Exhibit E is a true and correct copy of the Redistricting Criteria for the 2016 Congressional Plan adopted by the North Carolina General Assembly Joint Committee on Redistricting on February 16, 2016.

Attached as Exhibit F is a true and correct copy of the transcript of the October 5,
 2021 hearing before the North Carolina House of Representatives Committee on Redistricting.

 10.
 Attached as Exhibit G is a true and correct copy of the expert report of

 Christopher Cooper.
 Image: Christopher Cooper.

11. Attached as Exhibit H is a true and correct copy of the expert report of Jowei Chen.

12. Attached as Exhibit I is a true and correct copy of the expert report of Wesley Pegden.

13. Attached as Exhibit J is a true and correct copy of the affidavit of Plaintiff John Anthony Balla.

14. Attached as Exhibit K is a true and correct copy of the affidavit of Plaintiff Kathleen Barnes.

15. Attached as Exhibit L is a true and correct copy of the affidavit of Plaintiff Virginia Walters Brien.

16. Attached as Exhibit M is a true and correct copy of the affidavit of Plaintiff David Dwight Brown.

17. Attached as Exhibit N is a true and correct copy of the affidavit of Plaintiff Gettys Cohen Jr.

Attached as Exhibit O is a true and correct copy of the affidavit of Plaintiff
 Richard R. Crews.

19. Attached as Exhibit P is a true and correct copy of the affidavit of Plaintiff Rebecca Harper.

20. Attached as Exhibit Q is a true and correct copy of the affidavit of Plaintiff Amy Clare Oseroff.

21. Attached as Exhibit R is a true and correct copy of the affidavit of Plaintiff Mark S. Peters.

22. Attached as Exhibit S is a true and correct copy of the affidavit of Plaintiff Lily Nicole Quick.

23. Attached as Exhibit T is a true and correct copy of the affidavit of Plaintiff Donald Rumph.

24. Attached as Exhibit U is a true and correct copy of the affidavit of Plaintiff Shawn Rush.

Respectfully submitted this 30 day of November, 2021

/s/

Lalitha D. Madduri

# EXHIBIT A



#### STATE OF NORTH CAROLINA WAKE COUNTY

#### IN THE GENERAL COURT OF JUSTICE SUPERIOR COURT DIVISION 19 CVS 012667

REBECCA HARPER, et al.	)
Plaintiffs,	)
v.	>
Representative DAVID R. LEWIS,	)
in his official capacity as Senior	)
Chairman of the House Standing	)
Committee on Redistricting, et al.,	)
Defendants.	)

#### ORDER ON INJUNCTIVE RELIEF

THIS MATTER came on for hearing on October 24, 2019, before the undersigned three-judge panel upon Plaintiffs' Motion for Preliminary Injunction, filed September 30, 2019. All adverse parties to this action received the notice required by Rule 65 of the North Carolina Rules of Civil Procedure.

#### Procedural History

On February 19, 2016, the current North Carolina congressional districts (hereinafter "2016 congressional districts") were established by an act of the General Assembly, N.C. Sess. Laws 2016-1 (hereinafter "S.L. 2016-1"), as a result of litigation in federal court over the congressional districts originally drawn in 2011. On September 27, 2019, Plaintiffs filed a verified complaint in Superior Court, Wake County, seeking a declaration that the 2016 congressional districts violate the rights of Plaintiffs and all Democratic voters in North Carolina under the North Carolina Constitution's Free Elections Clause, Art. I, § 10; Equal Protection Clause, Art. I, § 19; and Freedom of Speech and Freedom of Assembly Clauses, Art. I, §§ 12 & 14. Plaintiffs seek to enjoin the future use of the 2016 congressional districts. On September 30, 2019, this action was assigned to the undersigned panel by the Chief Justice of the Supreme Court of North Carolina. On September 30, 2019, Plaintiffs filed a motion for a preliminary injunction seeking to bar Defendants from administering, preparing for, or moving forward with the 2020 primary and general elections in North Carolina for the United States House of Representatives using the 2016 congressional districts. Plaintiffs also filed a motion for expedited briefing and resolution of Plaintiffs' motion for a preliminary injunction. On October 2, 2019, Defendants North Carolina State Board of Elections and its members (collectively hereinafter "State Defendants") notified the Court that, among other things, candidate filing for congressional primaries is set to begin on December 2, 2019. On October 9, 2019, a motion to intervene was filed by three incumbent Congressional Representatives seeking to intervene in this action in both their capacity as Representatives and as residents and voters in three of the congressional districts challenged in Plaintiffs' verified complaint.

On October 10, 2019, the Court granted in part Plaintiffs' motion for expedited briefing, establishing a briefing schedule on Plaintiff's motion for preliminary injunction and setting for hearing Plaintiffs' motion for preliminary injunction and the motion to intervene.

On October 14, 2019, Defendants Representative David R. Lewis, Senator Ralph E. Hise, Jr., Speaker Timothy K. Moore, President Pro Tempore Philip E. Berger, Senator Warren Daniel, and Senator Paul Newton (hereinafter "Legislative Defendants") removed this case to the United States District Court for the Eastern District of North Carolina. On October 21, 2019, State Defendants and Legislative Defendants each filed in federal court a brief in response to Plaintiffs' motion for preliminary injunction in accordance with the Court's October 10, 2019 order. Plaintiffs notified and provided to the Court the

Defendants' briefs on October 22, 2019, and, on the same date, the federal court remanded this case to state court.

On October 22, 2019, the Congressional Representatives seeking to intervene in this case submitted a brief in response to Plaintiffs' motion for preliminary injunction. On October 23, 2019, Plaintiffs filed a motion to strike the Congressional Representatives' response brief, the Congressional Representatives submitted a response brief to Plaintiffs' motion, and Plaintiffs submitted a brief in reply to that response brief. Additionally, on October 23, 2019, Plaintiffs submitted a brief in reply to Legislative Defendants' brief in response to Plaintiffs' motion for preliminary injunction.

These matters came on to be heard on October 24, 2019, during which time the Court granted the Congressional Representatives (hereinafter "Intervenor-Defendants") permissive intervention and notified the parties that Intervenor-Defendants' response brief would be considered by the Court in its discretion. Plaintiffs' motion for preliminary injunction was taken under advisement

The Court, having considered the pleadings, motions, briefs and arguments of the parties, supplemental materials submitted by the parties, pertinent case law, and the record proper and court file, hereby finds and concludes, for the purposes of this Order, as follows.

#### Political Question Doctrine

Legislative Defendants contend Plaintiffs' claims—challenges to the validity of an act of the General Assembly that apportions or redistricts the congressional districts of this State—present non-justiciable political questions. Such claims are within the statutorilyprovided jurisdiction of this three-judge panel, N.C.G.S. § 1-267.1, and the Court concludes that partisan gerrymandering claims specifically present justiciable issues, as

distinguished from non-justiciable political questions. Such claims fall within the broad, default category of constitutional cases our courts are empowered and obliged to decide on the merits, and not within the narrow category of exceptional cases covered by the political question doctrine. Indeed, as the Supreme Court of the United States recently explained, partisan gerrymandering claims are not "condemn[ed] . . . to echo in the void," because although the federal courthouse doors may be closed, "state constitutions can provide standards and guidance for state courts to apply." *Rucho v. Common Cause*, 139 S. Ct. 2484, 2507 (2019).<sup>1</sup>

#### Standing of Plaintiffs

Legislative Defendants and Intervenor-Defendants contend that Plaintiffs lack standing to pursue their claims in this action. The North Carolina Constitution, however, provides: "All courts shall be open; every person for an injury done him in his lands, goods, person, or reputation shall have remedy by due course of law; and right and justice shall be administered without favor, denial, or defay." N.C. Const. art. I, § 18. "[B]ecause North Carolina courts are not constrained by the 'case or controversy' requirement of Article III of the United States Constitution, our State's standing jurisprudence is broader than federal law." *Davis v. New Zion Baptist Church*, 811 S.E.2d 725, 727 (N.C. Ct. App. 2018) (quotation marks omitted); accord Goldston v. State, 361 N.C. 26, 35, 637 S.E.2d 876, 882 (2006) ("While federal standing doctrine can be instructive as to general principles . . . and for comparative analysis, the nuts and bolts of North Carolina standing doctrine are not coincident with federal standing doctrine.").

<sup>&</sup>lt;sup>1</sup>Likewise, Legislative Defendants' and Intervenor-Defendants' contentions that federal law—*i.e.*, the Elections clause and Supremacy clause of the United States Constitution—serves as a bar in state court to Plaintiffs' action seeking to enjoin the 2016 congressional districts on state constitutional grounds is equally unavailing. Our state courts have jurisdiction to hear and decide claims that acts of the General Assembly apportioning or redistricting the congressional districts of this State run afoul of the North Carolina Constitution.

The North Carolina Supreme Court has broadly interpreted Article I, § 18 to mean that "[a]s a general matter, the North Carolina Constitution confers standing on those who suffer harm." *Mangum v. Raleigh Bd. of Adjustment*, 362 N.C. 640, 642, 669 S.E.2d 279, 281 (2008). The "gist of the question of standing" under North Carolina law is whether the party seeking relief has "alleged such a personal stake in the outcome of the controversy as to assure that concrete adverseness which sharpens the presentation of issues upon which the court so largely depends for illumination of difficult constitutional questions." *Goldston*, 361 N.C. at 30, 637 S.E.2d at 879 (quoting *Stanley v. Dep't of Conservation & Dev.*, 284 N.C. 15, 28, 199 S.E.2d 641, 650 (1973)). Although the North Carolina Supreme Court "has declined to set out specific criteria necessary to show standing in every case, [it] has emphasized two factors in its cases examining standing: (1) the presence of a legally cognizable injury; and (2) a means by which the courts can remedy that injury." *Davis*, 811 S.E.2d at 727-28.

Plaintiffs in this case have standing to challenge the congressional districts at issue because Plaintiffs have shown a likelihood of "a personal stake in the outcome of the controversy," *Goldston*, 361 N.C. at 30, 637 S.E.2d at 879, and a likelihood that the 2016 congressional districts cause them to "suffer harm," *Mangum*, 362 N.C. at 642, 669 S.E.2d at 281.

#### Applicable Legal Standards

At its most basic level, partisan gerrymandering is defined as: "the drawing of legislative district lines to subordinate adherents of one political party and entrench a rival party in power." *Ariz. State Legislature v. Ariz. Indep. Redistricting Comm'n*, 135 S. Ct. 2652, 2658 (U.S. 2016). Partisan gerrymandering operates through vote dilution—the devaluation of one citizen's vote as compared to others. A mapmaker draws district lines to

"pack" and "crack" voters likely to support the disfavored party. See generally Gill v. Whitford, 138 S. Ct. 1916 (2018).

Plaintiffs claim the 2016 congressional districts are partisan gerrymanders that violate the rights of Plaintiffs and all Democratic voters in North Carolina under the North Carolina Constitution's Free Elections Clause, Art. I, § 10; Equal Protection Clause, Art. I, § 19; and Freedom of Speech and Freedom of Assembly Clauses, Art. I, §§ 12 & 14. Extreme partisan gerrymandering violates each of these provisions of the North Carolina Constitution. *See Common Cause v. Lewis*, 18-CVS-014001, slip. op. at 298-331 (N.C. Sup. Ct. Sept. 3, 2019).

# Free Elections Clause

The North Carolina Constitution, in the Declaration of Rights, Article I, § 10, declares that "[a]ll elections shall be free." Our Supreme Court has long recognized the fundamental role of the will of the people in our democratic government: "Our government is founded on the will of the people. Their will is expressed by the ballot." *People ex rel, Van Bokkelen v. Canaday*, 73 N.C. 198, 220 (1875). In particular, our Supreme Court has directed that in construing provisions of the Constitution, "we should keep in mind that this is a government of the people, in which the will of the people--the majority--legally expressed, must govern." *State ex rel. Quinn v. Lattimore*, 120 N.C. 426, 428, 26 S.E. 638, 638 (1897) (citing N.C. Const. art. I, § 2). Therefore, our Supreme Court continued, because elections should express the will of the people, it follows that "all acts providing for elections, should be liberally construed, that tend to promote a fair election or expression of this popular will." *Id.* "[F]air and honest elections are to prevail in this state." *McDonald v. Morrow*, 119 N.C. 666, 673, 26 S.E. 132, 134 (1896). Moreover, in giving meaning to the Free Elections Clause, this Court's construction of the words contained therein must therefore be broad to comport with the following Supreme Court mandate: "We think the object of all elections is to ascertain, fairly and truthfully, the will of the people--the qualified voters." *Hill v. Skinner*, 169 N.C. 405, 415, 86 S.E. 351, 356 (1915) (quoting  $R_{\star}$  R. v. Comrs., 116 N.C. 563, 568, 21 S.E. 205, 207 (1895)).

As such, the meaning of the Free Elections Clause is that elections must be conducted freely and honestly to ascertain, fairly and truthfully, the will of the people. In contrast, extreme partisan gerrymandering—namely redistricting plans that entrench politicians in power, that evince a fundamental distrust of voters by serving the selfinterest of political parties over the public good, and that dilute and devalue votes of some citizens compared to others—is contrary to the fundamental right of North Carolina citizens to have elections conducted freely and honestly to ascertain, fairly and truthfully, the will of the people. *See Common Cause*, 18-CVS 014001, slip. op. at 298-307.

# Equal Protection Clause

The Equal Protection Clause of the North Carolina Constitution guarantees to all North Carolinians that "[n]o person shall be denied the equal protection of the laws." N.C. Const., art. I, § 19. Our Supreme Court has held that North Carolina's Equal Protection Clause protects "the fundamental right of each North Carolinian to *substantially equal voting power.*" Stephenson v. Bartlett, 355 N.C. 354, 379, 562 S.E.2d 377, 394 (2002) (emphasis added). "It is well settled in this State that 'the right to vote on equal terms is a fundamental right." Id. at 378, 562 S.E.2d at 393 (quoting Northampton Cnty. Drainage Dist. No. One v. Bailey, 326 N.C. 742, 747, 392 S.E.2d 352, 356 (1990) (emphasis added)).

Although the North Carolina Constitution provides greater protection for voting rights than the federal Equal Protection Clause, our courts use the same test as federal courts in evaluating the constitutionality of challenged classifications under an equal protection analysis. Duggins v. N.C. State Bd. of Certified Pub. Accountant Exam'rs, 294 N.C. 120, 131, 240 S.E.2d 406, 413 (1978); Richardson v. N.C. Dep't of Corr., 345 N.C. 128, 134, 478 S.E.2d 501, 505 (1996). Generally, this test has three parts: (1) intent, (2) effects, and (3) causation. First, the plaintiffs challenging a districting plan must prove that state officials' "predominant purpose" in drawing district lines was to "entrench [their party] in power" by diluting the votes of citizens favoring their rival. Ariz. State Legis., 135 S. Ct. at 2658. Second, the plaintiffs must establish that the lines drawn in fact have the intended effect by "substantially" diluting their votes. Common Cause v. Rucho, 318 F. Supp. 3d 777, 861 (M.D.N.C. 2018). Finally, if the plaintiffs make those showings, the State must provide a legitimate, non-partisan justification (*i.e.*, that the impermissible intent did not cause the effect) to preserve its map. Rucho, 139 S. Ct. at 2516 (Kagan, J., dissenting).

Generally, partisan gerrymandering runs afoul of the State's obligation to provide all persons with equal protection of law because, by seeking to diminish the electoral power of supporters of a disfavored party, a partisan gerrymander treats individuals who support candidates of one political party less favorably than individuals who support candidates of another party. *Cf. Lehr v. Robertson*, 463 U.S. 248, 265, 103 S. Ct. 2985 (1983) ("The concept of equal justice under law requires the State to govern impartially.")

As such, extreme partisan gerrymandering runs afoul of the North Carolina Constitution's guarantee that no person shall be denied the equal protection of the laws. See Common Cause, 18-CVS-014001, slip. op. at 307-17.

#### Freedom of Speech and Freedom of Assembly Clauses

The Freedom of Speech Clause in Article I, § 14 of the North Carolina Constitution provides that "[f]reedom of speech and of the press are two of the great bulwarks of liberty and therefore shall never be restrained." The Freedom of Assembly Clause in Article I, § 12 provides, in relevant part, that "[t]he people have a right to assemble together to consult for their common good, to instruct their representatives, and to apply to the General Assembly for redress of grievances."

"There is no right more basic in our democracy than the right to participate in electing our political leaders"—including, of course, the right to "vote." *McCutcheon v. FEC*, 572 U.S. 185, 191, 134 S. Ct. 1434, 1440 (2014) (plurality op.). "[P]olitical belief and association constitute the core of those activities protected by the First Amendment." *Elrod v. Burns*, 427 U.S. 347, 356, 96 S. Ct. 2673, 2681 (1976). In North Carolina, the right to assembly encompasses the right of association. *Feltman v. City of Wilson*, 238 N.C. App. 246, 253, 767 S.E.2d 615, 620 (2014). Moreover, "citizens form parties to express their political beliefs and to assist others in casting votes in alignment with those beliefs." *Libertarian Party of N.C. v. State*, 365 N.C. 41, 49, 707 S.E.2d 199, 204-05 (2011). And "for elections to express the popular will, the right to assemble and consult for the common good must be guaranteed." John V. Orth, *The North Carolina State Constitution* 48 (1995).

It is "axiomatic" that the gevernment may not infringe on protected activity based on the individual's viewpoint. *Resenberger v. Rector & Visitors of Univ. of Va.*, 515 U.S. 819, 828, 115 S. Ct. 2510, 2516 (1995). The guarantee of free expression "stands against attempts to disfavor certain subjects or viewpoints." *Citizens United v. FEC*, 558 U.S. 310, 340, 130 S. Ct. 876, 898 (2010). Viewpoint discrimination is *most* insidious where the targeted speech is political; "in the context of political speech, . . . [b]oth history and logic" demonstrate the perils of permitting the government to "identif[y] certain preferred speakers" while burdening the speech of "disfavored speakers." *Id.* at 340-41, 130 S. Ct. at 899.

The government may not burden the "speech of some elements of our society in order to enhance the relative voice of others" in electing officials. *McCutcheon*, 572 U.S. at 207, 134 S. Ct. at 1450; *see also Winborne v. Easley*, 136 N.C. App. 191, 198, 523 S.E.2d 149, 154 (1999) ("political speech" has "such a high status" that free speech protections have the ir "fullest and most urgent application" in this context (quotations marks omitted)). The government also may not retaliate based on protected speech and expression. *See McLaughlin*, 240 N.C. App. at 172, 771 S.E.2d at 579-80. Courts carefully guard against retaliation by the party in power. *See Elrod*, 427 U.S. at 356, 96 S. Ct. at 2681; *Branti v. Finkel*, 445 U.S. 507, 100 S. Ct. 1287 (1980); *Rutan v. Republican Party of Ill.*, 497 U.S. 62, 110 S. Ct. 2729 (1990). When patronage or retaliation restrains citizens' freedoms of belief and association, it is "at war with the deeper traditions of democracy embodied in the First Amendment." *Elrod*, 427 U.S. at 357, 96 S. Ct. at 2682 (quotation marks omitted).

When a legislature engages in extreme partisan gerrymandering, it identifies certain preferred speakers (e.g. Republican voters) while targeting certain disfavored speakers (e.g. Democratic voters) because of disagreement with the views they express when they vote. Then, disfavored speakers are packed and cracked into legislative districts with the aim of diluting their votes and, in cracked districts, ensuring that these voters are significantly less likely, in comparison to favored voters, to be able to elect a candidate who shares their views. Moreover, a legislature that engages in extreme partisan gerrymandering burdens the associational rights of disfavored voters to "instruct their representatives, and to apply to the General Assembly for redress of grievances." N.C. Const. art. I, § 12. As such, extreme partisan gerrymandering runs afoul of these important guarantees in the North Carolina Constitution of the freedom of speech and the right of the people of our State to assemble together to consult for their common good, to instruct their representatives, and to apply to the General Assembly for redress of grievances. See Common Cause, 18-CVS-014001, slip. op. at 317-31.

#### **Injunctive** Relief

"It is well settled in this State that the courts have the power, and it is their duty in proper cases, to declare an act of the General Assembly unconstitutional—but it must be plainly and clearly the case. If there is any reasonable doubt, it will be resolved in favor of the lawful exercise of their powers by the representatives of the people." *City of Asheville v. State*, 369 N.C. 80, 87-88, 794 S.E.2d 759, 766 (2016) (quoting *Glenn v. Bd. of Educ.*, 210 N.C. 525, 529-30, 187 S.E. 781, 784 (1936)); *State ex rel. Martin v. Preston*, 325 N.C. 438, 449, 385 S.E.2d 473, 478 (1989).

"The purpose of a preliminary injunction is ordinarily to preserve the *status* quo pending trial on the merits. Its issuance is a matter of discretion to be exercised by the hearing judge after a careful balancing of the equities." *State ex rel. Edmisten v. Fayetteville Street Christian School*, 299 N.C. 351, 357, 261 S.E.2d 908, 913 (1980). A preliminary injunction is an "extraordinary remedy" and will issue "only (1) if a plaintiff is able to show *likelihood* of success on the merits of his case and (2) if a plaintiff is likely to sustain irreparable loss unless the injunction is issued, or if, in the opinion of the Court, issuance is necessary for the protection of a plaintiff's rights during the course of litigation." *A.E.P. Industries, Inc. v. McClure,* 308 N.C. 393, 401, 302 S.E.2d 754, 759-60 (1983) (emphasis in original); *see also* N.C.G.S. § 1A-1, Rule 65(b). When assessing the preliminary injunction factors, the trial judge "should engage in a balancing process, weighing potential harm to the plaintiff if the injunction is not issued against the potential harm to the defendant if injunctive relief is granted. In effect, the harm alleged by the plaintiff must satisfy a standard of relative substantiality as well as irreparability." *Williams v. Greene*, 36 N.C. App. 80, 86, 243 S.E.2d 156, 160 (1978).

#### Status Quo

The 2011 congressional districts, enacted by the General Assembly on July 28, 2011, were struck down as unconstitutional racial gerrymanders and ordered to be redrawn on February 5, 2016. See Harris v. McCrory, 159 F. Supp. 3d 600, 627 (M.D.N.C. 2016). As a result, the 2016 congressional districts were then enacted by the General Assembly on February 19, 2016. N.C. Sess. Laws 2016-1. Plaintiffs' challenge to the 2016 congressional districts is a challenge to S.L. 2016-1 as enacted; hence, the status quo which Plaintiffs desire to preserve is the existing state of affairs prior to the enactment of S.L. 2016-1. Therefore, the existing state of affairs—*i.e.*, the status quo—prior to the enactment of S.L. 2016-1 was the period in which no lawful congressional district map for North Carolina existed absent the enactment of a remedial map by the General Assembly.

# Plaintiffs are Likely to Succeed on the Merits

Quite notably in this case, the 2016 congressional districts have already been the subject of years-long litigation in federal court arising from challenges to the districts on partisan gerrymandering grounds. See Rucho, 318 F. Supp. 3d 777. As such, there is a detailed record of both the partisan intent and the intended partisan effects of the 2016 congressional districts drawn with the aid of Dr. Thomas Hofeller and enacted by the General Assembly. See Rucho, 318 F. Supp. 3d at 803-10 (detailing the history of the drawing and enactment of the 2016 congressional districts); see also Declaration of Elisabeth S. Theodore (attaching as exhibits a number of documents from the record in federal court); Rucho, 139 S. Ct. at 2491-93.

For instance, Dr. Hofeller was directed by legislators "to use political data precinct-level election results from all statewide elections, excluding presidential elections, dating back to January 1, 2008 — in drawing the remedial plan," and was further instructed to "use that political data to draw a map that would maintain the existing partisan makeup of the state's congressional delegation, which, as elected under the racially gerrymandered plan, included 10 Republicans and 3 Democrats." *Rucho*, 318 F. Supp. 3d at 805 (internal citations omitted).

As another example, the redistricting committee approved several criteria for the map-drawing process, including the use of past election data (*i.e.*, "Political Data") and another labeled "Partisan Advantage," which was defined as. "The partisan makeup of the congressional delegation under the enacted plan is 10 Republicans and 3 Democrats. The Committee shall make reasonable efforts to construct districts in the 2016 Contingent Congressional Plan to maintain the current partisan makeup of North Carolina's congressional delegation." *Id.* at 807. In explaining these two criteria, Representative David Lewis "acknowledged freely that this would be a political gerrymander,' which he maintained was 'not against the law," *id.* at 808 (citation omitted), while also going on to state that he "propose[d] that [the Committee] draw the maps to give a partisan advantage to 10 Republicans and 3 Democrats because [he] d[id] not believe it[ would be] possible to draw a map with 11 Republicans and 2 Democrats," *id.* (alterations in original).

Moreover, when drawing the 2016 congressional districts, Dr. Hofeller used "an aggregate variable he created to predict partisan performance" all while "constantly aware of the partisan characteristics of each county, precinct, and VTD." *Id.* at 805-06.

Finally, the redistricting committee, and ultimately the General Assembly as a whole, approved the 2016 congressional districts by party-line vote. *Id.* at 809.

In light of the above, this Court agrees with Plaintiffs and finds there is a substantial likelihood that Plaintiffs will prevail on the merits of this action by showing beyond a reasonable doubt that the 2016 congressional districts are extreme partisan gerrymanders in violation of the North Carolina Constitution's Free Elections Clause, Art. I, § 10; Equal Protection Clause, Art. I, § 19; and Freedom of Speech and Freedom of Assembly Clauses, Art. I, §§ 12 & 14.

## Plaintiffs Will Suffer Irreparable Loss Unless the Injunction is Issued

The loss to Plaintiffs' fundamental rights guaranteed by the North Carolina Constitution will undoubtedly be irreparable if congressional elections are allowed to proceed under the 2016 congressional districts. As discussed above, Plaintiffs' have shown a likelihood of succeeding on the merits of their claims that these districts violate multiple fundamental rights guaranteed by the North Carolina Constitution. And as Defendants have emphasized, the 2020 primary elections for these congressional districts—the final congressional elections of this decade before the 2020 census and subsequent decennial redistricting—are set to be held in March of 2020 with the filing period beginning December 2, 2019.

As such, this Court finds that Plaintiffs are likely to sustain irreparable loss to their fundamental rights guaranteed by the North Carolina Constitution unless the injunction is issued, and likewise, issuance is necessary for the continued protection of Plaintiffs' fundamental rights guaranteed by the North Carolina Constitution during the course of the litigation.

#### A Balancing of the Equities Weighs in Favor of Plaintiffs

On one hand, Legislative Defendants contend a general harm to them will result from issuing the injunction because the General Assembly will be prevented from effectuating an act of the General Assembly. On the other hand, Plaintiffs' and all North Carolinians' fundamental rights guaranteed by the North Carolina Constitution will be irreparably lost, as discussed above, if the injunction is not granted. Simply put, the people of our State will lose the opportunity to participate in congressional elections conducted freely and honestly to ascertain, fairly and truthfully, the will of the people. The Court finds that this specific harm to Plaintiffs absent issuance of the injunction outweighs the potential harm to Legislative Defendants if the injunction is granted.

Legislative Defendants and Intervenor Defendants also contend the issuance of the injunction will result in disruption, confusion, and uncertainty in the electoral process for them, candidates, election officials, and the voting public. But, again, such a proffered harm does not outweigh the specific harm to Plaintiffs from the irreparable loss of their fundamental rights guaranteed by the North Carolina Constitution. Moreover, while State Defendants would prefer not to move elections or otherwise change the current schedule for the 2020 congressional primary election, they recognize that proceeding under the 2016 congressional districts "would require the Board to administer an election that violates the constitutional rights of North Carolina voters" and acknowledge that the election schedule can be changed if necessary. State Defs. Response Brief at 2. In that vein, State Defendants agree with Plaintiffs that "it would be appropriate for this Court to issue an injunction that relieves the Board of any duty to administer elections using an unconstitutionally gerrymandered congressional redistricting plan." *Id.* 

Finally, Legislative Defendants and Intervenor-Defendants contend Plaintiffs simply waited too long to bring their challenge to the 2016 congressional districts in state court. Plaintiffs, however, filed this action in state court only a matter of months after litigation reached its conclusion in federal court, at a time still prior to the candidate filing

period. While the timing of Plaintiffs' action does weigh against Plaintiffs, the Court does not find that the timing of Plaintiffs' filing of this action should bar them from seeking equitable relief in the form of the requested preliminary injunction.

Consequently, after weighing the potential harm to Plaintiffs if the injunction is not issued against the potential harm to Defendants if injunctive relief is granted, this Court concludes the balance of the equities weighs in Plaintiffs' favor. Indeed, the harm alleged by Plaintiffs is both substantial and irreparable should congressional elections in North Carolina proceed under the 2016 congressional districts.

#### Conclusion

Under these circumstances, the Court, in its discretion and after a careful balancing of the equities, concludes that the requested injunctive relief shall issue in regard to the 2016 congressional districts. The Court further concludes that security is required of Plaintiffs pursuant to Rule 65(c) of the North Carolina Rules of Civil Procedure to secure the payment of costs and damages in the event it is later determined this relief has been improvidently granted.

This Court recognizes the significance and the urgency of the issues presented by this litigation, particularly when considering the impending 2020 congressional primary elections and all accompanying deadlines, details, and logistics. This Court also is mindful of its responsibility not to disturb an act of the General Assembly unless it plainly and clearly, without any reasonable doubt, runs counter to a constitutional limitation or prohibition. For these reasons, the Court will, upon the forthcoming filing of Plaintiffs' motion for summary judgment, provide for an expedited schedule so that Plaintiffs' dispositive motion may be heard prior to the close of the filing period for the 2020 primary election.

This Court observes that the consequences, as argued by Legislative Defendants and Intervenor-Defendants, resulting from a delay in the congressional primary—*e.g.*, decreased voter turnout, additional costs and labor for the State Board of Elections—would be both serious and probable should the primary schedule be adjusted as a result of this Order and Plaintiffs' ultimate success on the merits of this action. But as discussed above, should Plaintiffs prevail through motion or trial, these consequences pale in comparison to voters of our State proceeding to the polls to vote, yet again, in congressional elections administered pursuant to maps drawn in violation of the North Carolina Constitution.

This Court, however, notes that these disruptions to the election process need not occur, nor may an expedited schedule for summary judgment or trial even be needed, should the General Assembly, on its own initiative, act immediately and with all due haste to enact new congressional districts. This Court does not presume, at this early stage of this litigation, to have any authority to comper the General Assembly to commence a process of enacting new Congressional districts, and this Court recognizes that such a decision is wholly within the discretion of a co-equal branch of government. The General Assembly, however, has recently shown it has the capacity to enact new legislative districts in a short amount of time in a transparent and bipartisan manner, and that the resulting legislative districts, having been approved by this Court, are districts that are more likely to achieve the constitutional objective of allowing for elections to be conducted more freely and honestly to ascertain, fairly and truthfully, the will of the people. See Common Cause v. Lewis, 18-CVS-014001 (N.C. Sup. Ct., October 28, 2019). The Court respectfully urges the General Assembly to adopt an expeditious process, as it did in response to this Court's mandate in the September 3, 2019, Judgment in Common Cause v. Lewis, that ensures full transparency and allows for bipartisan participation and consensus to create new

congressional districts that likewise seek to achieve this fundamental constitutional

objective.

Accordingly, the Court, in its discretion and for good cause shown, hereby ORDERS

that Plaintiffs' motion for preliminary injunction is GRANTED as follows:

- 1. Legislative Defendants and State Defendants, their officers, agents, servants, employees and attorneys and any person in active concert or participation with them are hereby enjoined from preparing for or administering the 2020 primary and general elections for congressional districts under the 2016 congressional districts established by S.L. 2016-1.
- 2. Security in an amount of \$1,000 shall be required of Plaintiffs pursuant to Rule 65.
- 3. The Court retains jurisdiction to move the primary date for the congressional elections, or all of the State's 2020 primaries, including for offices other than Congressional Representatives, should doing so become necessary to provide effective relief in this case.

SO ORDERED, this the 28th day of October, 2019.

/s/ Paul C. Ridgeway Paul C. Ridgeway, Superior Court Judge

/s/ Joseph N. Crosswhite Joseph N. Crosswhite, Superior Court Judge

/s/ Alma L. Hinton Alma L. Hinton, Superior Court Judge

#### CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing document was served upon the parties by emailing a copy thereof to the address below, in accordance with the October 10, 2019 Case Management Order:

Burton Craige Narenda K. Ghosh Paul E. Smith PATTERSON HARKAVY LLP bcraige@pathlaw.com nghosh@pathlaw.com psmith@pathlaw.com Counsel for Plaintiffs

R. Stanton Jones\* Elisabeth S. Theodore\* Daniel F. Jacobson\* William Perdue\* Sara Murphy D'Amico\* Graham White\* ARNOLD & PORTER KAYE SCHOLER LLP Stanton.jones@arnoldporter.com Elisabeth.theodore@arnoldporter.com Daniel.jacobson@arnoldporter.com William.Perdue@arnoldporter.com Sara.DAmico@arnoldporter.com Graham.White@arnoldporter.com Counsel for Plaintiffs

Phillip J. Strach Thomas A. Farr Michael McKnight Alyssa Riggins OGLETREE DEAKINS NASH SMOAK & STEWART PC Phil.strach@ogletree.com Thomas.farr@ogletree.com Michael.mcknight@ogletree.com Alyssa.riggins@ogletree.com Counsel for Legislative Defendants

\*Admitted Pro Hac Vice

Amar Majmundar Stephanie A. Brennan Paul M. Cox NORTH CAROLINA DEPARTMENT OF JUSTICE amajmundar@ncdoj.gov sbrennan@ncdoj.gov pcox@ncdoj.gov Counsel for the State Board of Elections and members of the State Board of Elections

Kieran J. Shanahan John E. Branch, III Nathaniel J. Pencook Andrew D. Brown ETRIEVED FROM DEMOCRACYDOCKET.COM SHANAHAN LAW GROUP PLLC kieran@shanahanlawgroup.com jbranch@shanahanlawgroup.com npencook@shanahanlawgroup.com abrown@shanahanlawgroup.com Counsel for Intervenor-Defendants

This the 28<sup>th</sup> day of October, 2019.

Trial Court Administrator – 10th Judicial District kellie.z.myers@nccourts.org

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# EXHIBIT B

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# STATE OF NORTH CAROLINA WAKE COUNTY

#### IN THE GENERAL COURT OF JUSTICE SUPERIOR COURT DIVISION 19 CVS 012667

REBECCA HARPER, et al.	)
Plaintiffs,	)
	)
v.	)
	)
Representative DAVID R. LEWIS,	)
in his official capacity as Senior	)
Chairman of the House Standing	)
Committee on Redistricting, et al.,	)
Defendants.	)

ORDER

THIS MATTER comes before the undersigned three-judge panel upon its own motion pursuant to its inherent authority and discretion to manage proceedings before the Court.

Plaintiffs in this litigation challenge the congressional districts established by an act of the North Carolina General Assembly in 2016, N.C. Sess. Laws 2016-1 (hereinafter S.L. 2016-1), claiming the districts violate the rights of Plaintiffs and all Democratic voters in North Carolina under the North Carolina Constitution.

On October 28, 2019, this Court granted Plaintiffs' motion for a preliminary injunction, enjoining Legislative Defendants and State Defendants from preparing for or administering the 2020 primary and general elections for Congressional Representatives under the 2016 congressional districts established by S.L. 2016-1. Plaintiffs seek to permanently enjoin the future use of the 2016 congressional districts and have filed a motion for summary judgment, scheduled to be heard on December 2, 2019.

In this Court's October 28, 2019, Order granting the preliminary injunction, the Court noted that summary judgment or trial may not be needed in the event the General Assembly, on its own initiative, acted immediately and with all due haste to enact new congressional districts. The Court suggested the General Assembly proceed in a manner that ensured full transparency and allowed for bipartisan participation and consensus that would result in congressional districts more likely to achieve the constitutional objective of allowing for those elections to be conducted more freely and honestly to ascertain, fairly and truthfully, the will of the people. On November 15, 2019, new congressional districts were established by an act of the General Assembly. N.C. Sess. Laws 2019-249 (hereinafter S.L. 2019-249). Shortly thereafter on November 15, 2019, Legislative Defendants filed a motion for summary judgment arguing Plaintiffs' present action—challenging the constitutionality of S.L. 2016-1—is moot, and Plaintiffs filed a response and motion for expedited review of the newly-enacted congressional districts.

Section 163-106.2 of our General Statutes provides that "[c]andidates seeking party primary nominations for the following offices shall file their notice of candidacy with the State Board no earlier than 12:00 noon on the first Monday in December and no later than 12:00 noon on the third Friday in December preceding the primary: . . . Members of the House of Representatives of the United States." N.C.G.S. § 163-106.2(a). In the Court's October 28, 2019, Order, the Court retained jurisdiction to adjust the State's 2020 congressional primary elections should doing so become necessary to provide effective relief in this case. In light of the recent developments in this litigation, including the enactment of S.L. 2019-249, Legislative Defendants' motion for summary judgment, and Plaintiffs' motion for the Court's review of S.L. 2019-249, and to allow the Court sufficient opportunity to fully consider the significant issues presented by the parties, the Court will enjoin the filing period for the 2020 congressional primary elections in North Carolina until further order of the Court. Accordingly, the Court, in its discretion and pursuant to its inherent authority,

hereby ORDERS that:

- 1. On the Court's own motion, the filing period provided by N.C.G.S. § 163-106.2(a) is hereby enjoined for only the 2020 congressional primary elections, and the North Carolina State Board of Elections shall not accept for filing any notices of candidacy from candidates seeking party primary nominations for the House of Representatives of the United States until further order of the Court.
- Any party to this action may respond to Plaintiffs' motion for review of the newly-enacted congressional districts, S.L. 2019-249, by submitting a response brief to the Court by 11:59 p.m. on November 22, 2019, in the manner set forth in the Case Management Order. Plaintiffs shall have until 11:59 p.m. on November 26, 2019, to submit a reply to any response brief in the manner set forth in the Case Management Order.
- 3. The Court's November 1, 2019, Order establishing a briefing schedule for summary judgment motions remains in effect.
- 4. The following will be heard by the Court at 9:00 a.m. on December 2, 2019:
  - a. Plaintiffs' motion for summary judgment;
  - b. Legislative Defendants' motion for summary judgment; and,
  - c. Plaintiffs' motion for review of S.L. 2019-249.

SO ORDERED, this the 20th day of November, 2019.

/s/ Paul C. Ridgeway Paul C. Ridgeway, Superior Court Judge

### /s/ Joseph N. Crosswhite

Joseph N. Crosswhite, Superior Court Judge

/s/ Alma L. Hinton

Alma L. Hinton, Superior Court Judge



STATE OF NORTH CAROLINA IN THE GENERAL COURT OF JUSTICE WAKE COUNTY SUPERIOR COURT DIVISION Case No. 19-CVS-12667 REBECCA HARPER, et al., Plaintiffs, vs. REPRESENTATIVE DAVID R. LEWIS, et al., ) Defendants. ) DECISION ON NEW CONGRESSIONAL DISTRICTS . AUL C. RIDGE ...INTON AND JOSEPH N. CR MONDAY, DECEMBER 2, 2019 HONORABLE JUDGES PAUL C. RIDGEWAY, JR., ALMA L. HINTON AND JOSEPH N. CROSSWHITE By: Denise Myers Byrd, CSR 8340, RPR 1

1	JUDGE RIDGEWAY: All right. Ladies and
2	gentlemen, we've had an opportunity to review these
3	matters and confer among ourselves, and I will read to
4	you the unanimous decision of this Court, which is
5	comprised of Judge Joseph Crosswhite and
6	Judge Alma Hinton and myself, and my colleagues have
7	asked that I read this into the record.
8	Three months ago on September 3rd, 2019, this
9	court announced its judgment in Common Cause versus
10	Lewis, and declared that extreme partisan gerrymandering
11	was unconstitutional under the North Carolina
12	constitution. In the 90 days following that ruling, the
13	voters of North Carolina now have new General Assembly,
14	House, and Senate maps drafted by the General Assembly
15	and approved by the courts that remedy the extreme
16	partisan gerrymandering of past maps. And as a result
17	of this litigation that brings us here today, this
18	Court after this Court preliminarily enjoined the
19	further use of the 2016 congressional maps, the voters
20	of North Carolina now have a new congressional map,
21	namely the one enacted by the General Assembly on
22	November 15, 2019.
23	Moreover, in this same 90-day period, the
24	citizens of North Carolina, for the first time, were
25	witnesses to the drafting of their voting districts.

1	The new General Assembly districts and the congressional
2	districts were not drawn in the basement of a political
3	operative's home, as was the case with prior maps, but
4	were drawn in open by the General Assembly in public
5	hearings with live-stream audio and video, in a process
6	that began with non-partisan base maps, which were then
7	amended without reference to past election data.
8	Much has changed with respect to North Carolina
9	redistricting in the past three months. Three months
10	from today, voters in North Carolina are scheduled to
11	vote in the March 2nd, 2020, primary election. Among
12	the many important constitutional and legal issues
13	argued today, the most critical one for the Court is a
14	practical question: Whether the Court should exercise
15	its broad equitable authority to delay the primary
16	election for congressional elections.
17	The Court has considered the nature of the
18	claims likely to be asserted should further review of
19	the newly enacted congressional maps be undertaken. In
20	sum, Plaintiffs contend the 2019 congressional districts
21	bear many of the same constitutional infirmities as its
22	predecessor, the 2016 constitutional map
23	congressional map, and that these infirmities compel
24	further remedy.
25	In the short time that the parties have had
	3

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1	since the enactment of the new congressional districts
2	to frame the issues surrounding the challenge to the
3	newly enacted congressional districts, it is evident
4	that many of these challenges raise significant factual
5	issues that must be resolved prior to the Court reaching
6	the legal conclusion of the constitutionality of these
7	maps.
8	For example, just one of the significant
9	factual disputes that must be resolved by the Court is
10	as follows: Legislative Defendants while denying any
11	partisan intent in drawing the new congressional
12	districts, argue that the ultimate result of the
13	map-drawing process is a map that shows no extreme
14	partisan gerrymandering because it yields eight
15	Republican-leaning districts and five Democratic-leaning
16	districts, as opposed to the 2016 map which yielded 10
17	Republican leaning districts and 3 Democrat. This
18	8-to-5 split, the Legislative Defendants point out, is
19	the same as the most frequent and most likely outcome of
20	the thousands of simulations generated by Plaintiffs'
21	experts. Legislative Defendants argue that to advocate
22	for a different split, say 7 to 6, is to advocate for a
23	partisan result far less likely to occur through
24	non-partisan map drafting, according to Plaintiffs' own
25	expert simulations.

1	Plaintiffs, on the other hand, argue that one
2	should not focus on the numerical split but rather
3	concentrate on or rather the concentration of
4	Democrats in the 5 Democratic-leaning districts and the
5	concentration of Republicans in the 8 Republican-leaning
6	districts which show, according to the Plaintiffs, an
. 2	intention to pack voters in into districts making each
8	district impervious to the true will of voters and to
9	lock in the 8-to-5 split in virtually all realistic
10	election environments.
11	But Legislative Defendants disagree, saying
12	that the districts are not as impervious as the
13	plaintiffs contend because when their expert used widely
14	cited online redistricting tool planscore.org to analyze
15	the newly enacted districts, he reported that
16	the PlanScore analysis of the 2019 congressional maps
17	show 7 Democratic-leaning districts to 6 Republican
18	districts. Plaintiffs challenge the accuracy of the
19	PlanScore algorithm.

Rulings on factual issues such as this cannot
be hastily made by this Court. Our judicial system
operates under a rule of law. Our judicial decision -decisions are forged in the crucible of an adversarial
process. The decision of this Court in Common Cause
versus Lewis that declared the legislative districts

1	enacted by the legislative by the General Assembly
2	for House and Senate districts to be unconstitutional
3	was the week of nearly a year of vigorous adversarial
4	litigation culminating in a two-week trial.
5	Likewise, the record before the Court
6	supporting its preliminary injunction of the 2016
7	congressional maps was based on a record compiled before
8	a federal three-judge panel through vigorous adversarial
9	litigation that spanned nearly three years. The
10	thorough and methodical judicial review of redistricting
11	issues is not merely necessitated by the complexity of
12	redistricting challenges, which is certainly a factor,
13	but more importantly is necessary because the
14	Plaintiffs, in challenging maps crafted by the General
15	Assembly, are required through evidence and law to
16	overcome the strong presumption of the constitutionality
17	of acts of the General Assembly and to persuade the
18	Court that there is no reasonable doubt that the
19	districts are unconstitutional and cannot be upheld on
20	any ground. Due process does not allow shortcuts to a
21	thorough and complete judicial review.
22	Much has been argued as to whether this action
23	is moot due to the enactment of the new congressional
24	districts. The Court does not reach that issue today but

25

6

takes this issue under advisement.

#### DECISION ON NEW CONGRESSIONAL DISTRICTS

1	But one thing is for certain: The Court, in
2	entering its preliminary injunction on October 28, 2019,
3	expressed grave concerns about delaying and disrupting
4	the voting process and urged the General Assembly to
5	adopt a new congressional map through a process similar
6	to the one undertaken to remedy the House and Senate
7	maps in the Common Cause versus Lewis litigation. The
8	General Assembly did enact a new congressional map, and
9	although one can certainly argue that the process was
10	flawed or that the result is far from ideal, the net
11	result is that the grievous grievously flawed 2016
12	congressional map has been replaced.
13	This Court's concern about delaying the
14	electoral process is even more pronounced today than on
15	October 28th. In this regard, the Court finds that the
16	balance of equities has shifted over the past month.
17	This action was commenced by the Plaintiffs on
18	September 27, 2019, late in the election cycle. Had it
19	been commenced earlier, say immediately after the
20	United States Supreme Court June 2019 ruling in Rucho
21	versus Common Cause, the adversarial process could more
22	fully have run its course to allow for a more thoughtful
23	and informed decision. As a practical matter, in the
24	Court's view, there's simply not sufficient time to
25	fully develop the factual record necessary to decide the

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<sup>1</sup> constitutional challenges to the new congressional <sup>2</sup> districts without significantly delaying the primary <sup>3</sup> elections.

4 After fully considering the record proper and 5 the arguments of counsel, the Court has determined that 6 it will not invoke its equitable authority to further 7 delay the election of members of Congress in 8 North Carolina. It is time for the citizens to vote. 9 The injunction entered by the Court on November 20, 10 2019, delaying the filing period for congressional 11 candidates until further order of this Court is set 12 aside, and it is ordered that the North Carolina State 13 Board of Elections may immediately accept for filing any 14 notices of candidacy from candidates seeking party 15 primary nominations for the United States House of 16 Representatives for congressional districts as defined 17 by the newly enacted Session Law 2019-249, which we've 18 also referred to as House Bill 1028.

<sup>19</sup> Much has changed with respect to redistricting <sup>20</sup> in North Carolina in the past 90 days, both with respect <sup>21</sup> to the law and with respect to the process by which maps <sup>22</sup> have been drawn. The results are not perfect, and <sup>23</sup> indeed some may contend that the results are far from <sup>24</sup> perfect, but the current legislative and congressional <sup>25</sup> maps resulting from a decade of litigation will

#### DECISION ON NEW CONGRESSIONAL DISTRICTS

1	themselves be replaced after the 2020 election cycle
2	because of the upcoming decennial census. It is the
3	Court's fervent hope that the past 90 days becomes a
4	foundation for future redistricting in North Carolina
5	and that future maps are crafted through a process
6	worthy of public confidence and a process that yields
7	elections that are conducted freely and honestly to
8	ascertain fairly and truthfully the will of the people.
9	So ordered.
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1	STATE OF NORTH CAROLINA )
2	COUNTY OF WAKE )
3	
4	I, DENISE MYERS BYRD, Court Reporter and Notary
5	Public, do hereby certify that the transcription of the
6	recorded Decision by Superior Court Three-Judge Panel for
7	Redistricting Challenges was taken down by me
8	stenographically to the best of my ability and thereafter
9	transcribed under my supervision; and that the foregoing
10	pages, inclusive, constitute a true and accurate
11	transcription of said recording.
12	Signed this the 22nd day of April 2020.
13	RACT
14	ENOC.
15	Denise Myers Byrd
16	CSR 8240, RPR, CLR 102409-2
17	E. R. E.
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### EXHIBIT D



### 2016 Contingent Congressional Plan Committee Adopted Criteria

#### **Equal Population**

The Committee will use the 2010 federal decennial census data as the sole basis of population for the establishment of districts in the 2016 Contingent Congressional Plan. The number of persons in each congressional district shall be as nearly as equal as practicable, as determined under the most recent federal decennial census.

#### Contiguity

Congressional districts shall be comprised of contiguous territory. Contiguity by water is sufficient.

Political data The only data other than population data to be used to construct congressional districts shall be election results in statewide contests since January 1, 2008, not including the last two presidential contests. Data identifying the race of individuals or voters shall not be used in the construction or consideration of districts in the 2016 Contingent Congressional Plan. Voting districts ("VTDs") should be split only when necessary to comply with the zero deviation population requirements set forth above in order to ensure the integrity of political data.

#### Partisan Advantage

The partisan makeup of the congressional delegation under the enacted plan is 10 Republicans and 3 Democrats. The Committee shall make reasonable efforts to construct districts in the 2016 Contingent Congressional Plan to maintain the current partisan makeup of North Carolina's congressional delegation.

#### Twelfth District

The current General Assembly inherited the configuration of the Twelfth District from past General Assemblies. This configuration was retained because the district had already been heavily litigated over the past two decades and ultimately approved by the courts. The Harris court has criticized the shape of the Twelfth

District citing its "serpentine" nature. In light of this, the Committee shall construct districts in the 2016 Contingent Congressional Plan that eliminate the current configuration of the Twelfth District.

#### Compactness

In light of the Harris court's criticism of the compactness of the First and Twelfth Districts, the Committee shall make reasonable efforts to construct districts in the 2016 Contingent Congressional Plan that improve the compactness of the current districts and keep more counties and VTDs whole as compared to the current enacted plan. Division of counties shall only be made for reasons of equalizing population, consideration of incumbency and political impact. Reasonable efforts shall be made not to divide a county into more than two districts.

### Incumbency

Candidates for Congress are not required by law to reside in a district they seek to represent. However, reasonable efforts shall be made to ensure that incumbent members of Congress are not paired with another incumbent in one of the new districts constructed in the 2016 Contingent Congressional Plan.

# EXHIBIT E



#### **Criteria Adopted by the Committees**

- Equal Population. The Committees will use the 2020 federal decennial census data as the sole basis of population for the establishment of districts in the 2021 Congressional, House, and Senate plans. The number of persons in each legislative district shall be within plus or minus 5% of the ideal district population, as determined under the most recent federal decennial census. The number of persons in each congressional district shall be as nearly as equal as practicable, as determined under the most recent federal decennial census.
- **Contiguity.** No point contiguity shall be permitted in any 2021 Congressional, House, and Senate plan. Congressional, House, and Senate districts shall be compromised of contiguous territory. Contiguity by water is sufficient.
- Counties, Groupings, and Traversals. The Committees shall draw legislative districts within county groupings as required by *Stephenson v. Bartlett*, 355 N.C. 354, 562 S.E.2d 377 (2002) (*Stephenson I*), *Stephenson v. Bartlett*, 357 N.C. 301, 582 S.E.2d 247 (2003) (*Stephenson II*), *Dickson v. Rucho*, 367 N.C. 542, 766 S.E.2d 238 (2014) (*Dickson I*) and *Dickson v. Rucho*, 368 N.C. 481, 781 S.E. 2d 460 (2015) (*Dickson II*). Within county groupings, county dines shall not be traversed except as authorized by *Stephenson I*, *Stephenson I*, *Dickson I*, and *Dickson II*.

Division of counties in the 2021 Congressional plan shall only be made for reasons of equalizing population and consideration of double bunking. If a county is of sufficient population size to contain an entire congressional district within the county's boundaries, the Committees shall construct a district entirely within that county.

- **Racial Data.** Data identifying the race of individuals or voters *shall not* be used in the construction or consideration of districts in the 2021 Congressional, House, and Senate plans. The Committees will draw districts that comply with the Voting Rights Act.
- **VTDs.** Voting districts ("VTDs") should be split only when necessary.
- **Compactness.** The Committees shall make reasonable efforts to draw legislative districts in the 2021 Congressional, House and Senate plans that are compact. In doing so, the Committee may use as a guide the minimum Reock ("dispersion") and Polsby-Popper ("permiter") scores identified by Richard H. Pildes and Richard G. Neimi in *Expressive Harms, "Bizarre Districts," and Voting Rights: Evaluating Election-District Appearances After Shaw v. Reno*, 92 Mich. L. Rev. 483 (1993).
- **Municipal Boundaries.** The Committees may consider municipal boundaries when drawing districts in the 2021 Congressional, House, and Senate plans.

- Election Data. Partisan considerations and election results data *shall not* be used in the drawing of districts in the 2021 Congressional, House, and Senate plans.
- **Member Residence.** Member residence may be considered in the formation of legislative and congressional districts.
- **Community Consideration.** So long as a plan complies with the foregoing criteria, local knowledge of the character of communities and connections between communities may be considered in the formation of legislative and congressional districts.

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# EXHIBIT F



Page 1 TRANSCRIPTION OF AUDIO FILE NORTH CAROLINA HOUSE COMMITTEE ON REDISTRICTING OCTOBER 5, 2021 CTC REPREVED FROM DEM DIGITAL EVIDENCE GROUP 1730 M Street, NW, Suite 812 Washington, D.C. 20036 (202) 232-0646

Page 2

UNKNOWN MALE: House Committee on 1 Redistricting, Tuesday, October 5, 2021, 643 LOB. 2 CHAIRMAN HALL: Committee will come to 3 The Chair apologizes for delay in getting 4 order. 5 started this afternoon. Thanks to the committee 6 members for their patience. Members, I want to start off by thanking 7 8 you all, the members, staff, and the public who chose to participate in our public hearings across 9 10 the state over the last several weeks. I think we 11 heard varying opinions. It was great to see folks engaged, and we had members, many -- many member, 12 not even just the folks on this committee, but 13 several members of the House and the Senate, who are 14 15 not on this committee, who attended those meetings and gave folks a chance to be heard about what they 16 want this process to look like. 17 18 The purpose of today's meeting is to --19 just to do some Housekeeping to give folks an idea of what the map-drawing process is going to look 20 21 like. And we anticipate, beginning tomorrow, 22 starting the map-drawing process, and so we want to 23 lay out very clearly what the criteria will be -- or rather the rules will be for this committee for 24 25 drawing maps.

Page 3 So we'll just jump right into it. We're 1 going to have four terminals. And if you look 2 around this room, you see the big screens. 3 There are going to be four of those. One will be 4 5 dedicated to the chair of this committee. One will be dedicated to the minority leader, or his 6 7 designee. I should have said on the first station, 8 it will be dedicated to the chairman or chair's 9 designee. And then the other two will be for any 10 other committee member, or any member of the House who wishes to come in and draw on those terminals. 11 For now, the plan is to go from 9:00 to 12 5:00 each day. So well come in, gavel in at 9 13 o'clock. This committee room will stay open 14 15 throughout the day. Those of you who have been 16 through this before, you know it's not like a 17 typical committee where we're always with a chair 18 standing up here, like I am right now. What we 19 typically do, we'll gavel in, and folks can go draw. 20 We may take breaks throughout the day. We 21 may just leave the committee room open. We want to 22 be cognizant of staff, let them be able to eat 23 lunch, and that sort of thing, so we may take a few 24 breaks and there. But by and large, the committee room is going to be open from 9:00 to 5:00. We're 25

25

1 going to plan to do that Monday through Friday, for 2 now.

3 So, as of right now, chair anticipates having this committee room open throughout the rest 4 5 of this week, until Friday at 5 o'clock. But the chair will say that if significant progress is made, 6 7 we may not keep the committee open all day on 8 Friday, so that we don't have to keep staff here. And obviously, folks will be -- members will be 9 traveling back to their districts. To prevent them 10 from having to travel back on Friday night, we may 11 go ahead and may not have a committee meeting Friday 12 or may end the committee early on Friday. So just 13 wait and see on that front. 14

15 And this is a rule that I want to make sure 16 all members are clear on, but this committee, and 17 the House as a whole, will only consider maps that 18 are drawn in this committee room, on one of the four 19 stations. So if a map is not drawn on one of these 20 four stations, in this committee room, during those 21 committee hours that the committee is open, then 22 those maps will not be considered for a vote by this 23 committee, and of course, will not be considered for 24 a vote by the House.

And we'll be able to know because when you

Page 4

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Page 5 1 put a map into one of these computers, that becomes 2 a matter of public record, and we can tell which were drawn on these computers. It has to be drawn 3 in this committee room. 4 5 When this committee is open, we'll maintain 6 a live stream and live audio during the whole time 7 of map-drawing, so that the process will be, we 8 believe, just about as transparent as we humanly can do. And that's what we heard in public comment. We 9 heard folks say, "We want a transparent process." 10 11 Well, that's what we're going to give the public. We're going to give the members of this 12 13 body and the public a transparent process where we draw maps in this from with a live audio feed and a 14 15 live video feed. And we're going to create a rule 16 that we're only going to consider the maps that are 17 drawn in this room, in the House, in this committee, 18 and ultimately, in the House. 19 Members, we're going to continue to have 20 session, of course, regular session, throughout this 21 process. As the members know, we're still dealing with the budget right now. And so, obviously, the 22 23 speaker is aware that this process of redistricting

25 to do that. But we have to continue with the

takes a lot of labor, and we'll give us ample time

Page 6 business of the House in general, so we'll do just 1 the best we can on that, understanding we're 2 operating under a tight time line. 3 And we've talked about that a lot 4 5 throughout this committee process that, because of the delay in the census data, we're just now getting 6 7 to a point where we can draw these maps, after doing 8 the public comment we wanted to do. But with filing coming in December, we really need to get these maps 9 drawn as close as we can, or at least by the end of 10 this month, if not sooner. 11 That's going to be our goal to try to get 12 these things done by the end of the month. That way 13 we can give the board of elections time to get 14 ballots printed and let folks know what districts 15 they're going to be in, so they can decide if they 16 17 want to run or not run. Whether they be members of 18 this committee, or folks who are not in the General 19 Assembly at all. 20 Members, with that being said --21 REPRESENTATIVE RICHARDSON: Mr. Chairman, 22 can I have a quick question? 23 CHAIRMAN HALL: I'm going to take questions 24 in a little while, but you know, if it's something that's really important right now, okay. All right. 25

Page 7 I'm going to take questions at the end. 1 2 So for ground rules, that's it for now. I 3 may have left something out, and if so, members can 4 ask me in a moment. 5 The second step in today's committee is going to be the presentation of the optimum county 6 7 groupings that have been come up with by the non-8 partisan staff. And so the chair is going to turn 9 this over to Erika Churchill, in just a moment, to make a presentation on the optimum county groupings 10 that have been crafted by the non-partisan staff. 11 But what the chair will ultimately say 12 about these groupings is: in years past, if you've 13 been on this committee, you know that we have 14 15 adopted certain groupings. Chair does not 16 anticipate adopting any particular grouping this 17 time around because there are multiple options within the county groupings. And that's what you've 18 got in front of you, and that Ms. Churchill is going 19 to explain in more detail here in just a bit. 20 21 Rather than limit any member of this 22 committee into just certain groupings, what the 23 chair anticipates is that members can use whichever combination of the groupings that you see before 24 you, in drawing whichever map a member sees fit to 25

1 draw.

The only groupings that will be considered 2 are those that are in the packet that's in front of 3 you. These were initially put forth by Duke 4 5 University, and a non-partisan staff has also drawn their own groupings and confirmed that the Duke 6 groupings were correct. And so we're confident that 7 8 using the algorithm, as required in the law, that these are the possible groupings  $\sqrt{-}$  the possible 9 10 optimum groupings. Again, I'll answer questions momentarily on 11 that front. But with that, the chair is going to 12

13 turn it over to Erika Churchill to speak to the 14 county groupings and to also show an example of how 15 to use the terminals when drawing the maps.

16 Ms. Churchill, you're recognized. 17 MS. CHURCHILL: Thank you, Mr. Chair. As 18 you mentioned, central staff, were asked to take a presentation by Christopher Cooper, Blake Esselstyn, 19 20 Gregory Herschlag, Jonathan Mattingly, and Rebecca 21 Tippett from the quantifying gerrymandering group, 22 which is a non-partisan research group centered at 23 Duke Math.

And they produced a paper entitled, "North Carolina General Assembly County Clusterings from

Page 8

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the 2020 Census." It was posted by Mr. Herschlag on
August 17, 2021. And we took it as a recipe,
because throughout this, they gave instructions as
to what they believed were the optimum county
groupings.

I would note that they particularly say, 6 7 "However, there are often multiple optimal county 8 clusterings that minimize county splitting." And they reference two other blogs that they have 9 posted. The release of the 2020 census data allows 10 us to determine the possible county clusterings for 11 both the North Carolina State House and State Senate 12 redistricting processes. 13

The one part of Stephenson v. Bartlett 14 15 which this analysis does not reflect, is compliance with the Voting Rights Act. To determine the county 16 clusters, we used the implementation of the court 17 18 order procedure described in Carter, et al." The 19 site they gave for Carter, et al. is "Optimal 20 Legislative County Clustering in North Carlina" by 21 Daniel Carter, Zach Hunter, Dan Teague, Gregory Herschlag, and Jonathan Mattingly. Statistics and 22 23 Public Policy Volume 7, 2020. For the state House, what you have before 24

you in hardcopy, on the screen, and I believe they

Page 9

	Page 10
1	will be posted to the web, are the nine maps that
2	resulted from this paper with respect to the North
3	Carolina State House. The very first one does not
4	have the entire state assigned. They call this the
5	fixed groupings. Throughout the maps that we'll go
6	through, you will find that these will be hash
7	tagged. A little bit of crosshatching on them to
8	identify these are the ones that this particular
9	group say are the optimal.
10	They created 33 clusters containing 107 of
11	the 120 districts that are fixed based on
12	determining optimal county clusters. 11 of these
13	clusters contain 1 district, meaning that 11 of the
14	120 House districts are fixed.
15	So as you're looking at the map, whether in
16	hardcopy or online, you will see that there is a
17	letter assigned to each. I'm just going to pick on
18	Carteret and Craven, in the eastern part of the
19	state, in the blue shading, it is Q2. The Q is just
20	an easy letter reference if you need to talk about
21	that particular grouping with anyone. The 2 means
22	that that is population sufficient for 2 House
23	members. The same if you look just to the left, in
24	the gray, the green Lenore Jones BB cluster, or
25	grouping, has a 1 underneath it, meaning that would

5

Page 11

1 be a single member grouping.

2 So the white areas that are left can each 3 be assigned two different ways. So that would get 4 you to the lovely House maps that are left.

(Sound interruption)

So starting with the Western area that was 6 7 left kind of unassigned, needs to be grouped. As 8 you will see it on the Duke House 01 map, it would be districts HH and II. The first option here would 9 be to combine Surry, Wilkes, and Alexander to create 10 a two-member district. And Alleghany, Ashe, 11 Watauga, and Caldwell to create a two-member 12 district. 13

14 If you will skip over to Duke House 05, 15 this would give you a visual of the second option 16 for this particular grouping. It would be a 17 combination of Surry, Alleghany, Ashe, and Wilkes 18 for a two-member grouping. And Watauga, Caldwell, 19 and Alexander for a two-member grouping.

20 Staying on the Duke House 05, and heading 21 east to the southeast, the options in that southeast 22 area here would be to combine Wayne and Sampson into 23 a two-member district. Duplin and Onslow into a 24 three-member district. And Pender and Bladen into a 25 one-member district.

Page 12

And so if you just fast forward one to Duke 1 2 House 08, the second option in the southeastern corner would be to combine Wayne and Duplin into a 3 two-member district. Sampson and Bladen into a one-4 5 member district and Onslow and Pender into a threemember district. 6 Duke House 05 will be our example of the 7 8 northeastern corner. Option one would be to combine Hertford, Gates, Pasquotank, and Gamden into a 9

10 single-member district. And Currituck, Dare, Hyde, 11 Pamlico, Beaufort, Washington, Tyrrell, Perquimans, 12 and Chowan into a two-member district.

13 The other option in the northeastern 14 corner, if you will go to Duke House 06, you can see 15 a visual of that. The single member district would 16 be Currituck, Pasquotank, Perquimans, and Tyrrell. 17 The two-member district would be Beaufort, Pamlico, 18 Hyde, Dare, Washington, Chowan, Camden, Gates, and 19 Hertford.

Each of the multimember districts throughout all of these would need to be divided into single-member districts for compliance with Stephenson opinion.

I should probably note, just so that everybody is aware, the ideal population for a North

Page 13 Carolina House district is 86,995 people, according 1 2 to the 2020 Decennial Census, with a plus or minus 5 3 percent deviation. That leaves a range of 82,645 to 4 91,345 people. 5 CHAIRMAN HALL: Okay, members. The chair 6 is going to give Ms. Churchill an opportunity in a 7 moment to display and give an example of how the 8 terminals will work. But if that is it for your presentation on 9 groupings, if you'll stand there for just a second. 10 MS. CHURCHILL: Yes, sir. 11 CHAIRMAN HALL: Committee members, do any 12 members have any questions for legislative staff at 13 this point about groupings? And again, chair's 14 15 going to take some questions at the end. 16 Representative Torbett. 17 REPRESENTATIVE TORBETT: Just if she could 18 repeat the numbers she used there at the last time. 19 There was three. There was a total and the range. 20 MS. CHURCHILL: Okay. Ideal population for 21 a North Carolina House of Representatives districts, 22 86,995. Creating a plus or minus 5 percent range of 23 82,645 to 91,345 people. 24 CHAIRMAN HALL: The chair is going to make sure that all committee members have a document 25

Page 14 1 showing the ideal population for each level of 2 grouping. So for one-member grouping, two-member. 3 And I know we've had that in the past, and it may have already been passed out at one of the meetings 4 5 we've had. So let's make sure, if we will -- we'll send that out to the committee via email, and we'll 6 7 have some paper copies at the meeting tomorrow. MS. CHURCHILL: We will actually have a 8 laminated copy at every station. 9 10 CHAIRMAN HALL: Okay, great. MS. CHURCHILL: And we will also be glad to 11 email that out to everyone. It has been passed out 12 at a previous meeting N 13 CHAIRMAN HALL: And we're going to go ahead 14 and have paper copies for folks to be able to take 15 with them is they want to. 16 17 MS. CHURCHILL: Glad to take care of that. 18 CHAIRMAN HALL: Representative Harrison. 19 REPRESENTATIVE HARRISON: Thank you, 20 Mr. Chair. Thank you, Erika. 21 If I heard you right, so did you -- when 22 you started -- and I've got the article in front of 23 me from Doctors Mattingly, et al. -- did you say that the fixed -- the fixed clusters -- we're 24 working from a basis of the fixed clusters, and 25

Page 15 those represent 107 of the 120 members; is that 1 2 right? 3 MS. CHURCHILL: Yes, ma'am. REPRESENTATIVE HARRISON: And then our 4 5 options are to figure out how to manipulate the other white, unshaded counties, and that's what 6 7 we're going to be doing with the other map options? 8 MS. CHURCHILL: Mr. Chair? CHAIRMAN HALL: Lady is recognized to 9 10 respond. 11 MS. CHURCHILL: Yes, Representative Harrison. With the crosshatched districts in the 12 Duke House fixed, that would establish the groupings 13 for 107 of the 120 districts. Of that 107, 11 -- or 14 15 of the 33 clusters, 11 of those clusters would be 16 single-member districts. The remainder would still 17 need to be divided into single-member districts. So 18 the counties in white that have no shading, no 19 crosshatching, would be the options to combine together to create the remaining 13 House districts. 20 21 CHAIRMAN HALL: And members, and for those folks listening at home, the chair has often 22 23 referred to these maps as groupings, and you hear 24 Ms. Churchill refer to them as clusters, and those are synonymous terms, just for those listening, to 25

Page 16 1 make sure everybody understands. If you've been through this before, you know that. But if you're 2 new to this committee, or you're listening online 3 and haven't watched this committee before, that may 4 5 be confusing. But is that your understanding, 6 Ms. Churchill? 7 MS. CHURCHILL: Yes, sir. There's actually 8 three terms that I've heard for it. There's the 9 clustering, which is the phrase that the group from 10 11 Duke used in their paper, which is what I was reading from. There's also groupings, which is kind 12 of in the court order  $\sqrt[n]{}$  as well as clustering. The 13 other phrase I've heard used to describe this is 14 podding, or creating a pod. I believe all three to 15 be completely interchangeable. 16 17 CHAIRMAN HALL: That's right. That's the 18 chair's understanding as well. 19 Representative Harrison. 20 REPRESENTATIVE HARRISON: Mr. Chair, if we 21 have questions about the clusters and the process, should we ask them now of you and the committee, or 22 23 do you want her to talk about the technical and then 24 have the questions after that? 25 CHAIRMAN HALL: At this point, if you've

Page 17 got a question for the chair, let's just wait. This 1 2 is just questions for right now to Ms. Churchill. She's not going to leave after this. She'll be 3 4 right up here, so if we have another question for her later. But while they're there at the podium, 5 the chair thinks it's appropriate to give members 6 7 the opportunity to ask them questions. 8 Representative Warren. REPRESENTATIVE WARREN: I've got a question 9 for Ms. Churchill. 10 I'm sorry, when you look at the white 11 clusters, and the different iterations of them on 12 the following maps, Innoticed that the numbers stay 13 the same within those configurations. So is this 14 just a matter of looking at those particular 15 16 counties in terms of their connection to each other, continuity of it, or the contiguousness of it, or 17 18 whatever the word is we're looking for there? 19 MS. CHURCHILL: So, Mr. Chair, if I might? 20 CHAIRMAN HALL: Lady may answer. 21 MS. CHURCHILL: So you are absolutely 22 correct. So starting kind of in that western 23 corner, the counties of Surry, Alleghany, Ashe, 24 Watauga, Wilkes, Caldwell, and Alexander, that white area has a population in it sufficient to support 25

	Page 18
1	four single-member districts. So it becomes a
2	question of how to group those counties together to
3	best create districts that are in compliance with
4	Stephenson. And there are two options there. Both
5	would be two-member districts. It's just a matter
6	of what the committee chose to use.
7	REPRESENTATIVE WARREN: And follow-up?
8	CHAIRMAN HALL: The gentleman is
9	recognized.
10	REPRESENTATIVE WARREN: So, Ms. Churchill,
11	one of the things I noticed in the hearings I
12	attended was some folks in the general public not
13	having an understanding that we try to do these in
14	terms of, not breaking down counties or
15	municipalities, but to stay within the mandates of
16	the population, and you're staying within this
17	cluster. That, in some cases, creates a situation
18	where you have no choice but to comply with the
19	district's population; is that correct?
20	CHAIRMAN HALL: The lady is recognized.
21	MS. CHURCHILL: I will attempt that one.
22	And I'm going to pick on the chair for just a
23	moment. His home county of Caldwell
24	CHAIRMAN HALL: Join the club.
25	MS. CHURCHILL: as an example.

	Page 19
1	According to the federal decennial census, it's
2	80,652 people, which is outside that ideal range of
3	82,645 to 91,345 for a single-member district. So
4	it would need to be combined with some other
5	contiguous county to create a single-member
6	district. Or it would need to be divided with some
7	other contiguous counties to create two
8	single-member districts. That would be up to the
9	committee how they wanted to do that.
10	REPRESENTATIVE WARREN: Thank you very
11	much.
12	CHAIRMAN HALL: Further questions or any
13	comments for legislative staff?
14	Representative Dixon.
15	REPRESENTATIVE DIXON: Thank you,
16	Mr. Chair.
17	Ms. Churchill, without having to add them
18	up, how many House seats are there in the white area
19	including Duplin and then this white area with
20	Tyrrell?
21	MS. CHURCHILL: So
22	Mr. Chair?
23	The area
24	CHAIRMAN HALL: The lady is recognized.
25	MS. CHURCHILL: including Duplin, Wayne,

Page 20 Sampson, Bladen, Pender, and Onslow is population 1 2 sufficient to support six single-member House districts. That northeastern corner beginning at 3 Pamlico, running all the way up to Currituck and 4 5 over to Hertford, is population sufficient to support three single-member districts. 6 7 REPRESENTATIVE DIXON: Thank you. 8 CHAIRMAN HALL: Further discussion or any questions for legislative staff? 9 10 Okay. Ms. Churchill, if you want to give us an example of how to use these terminals, the 11 lady is recognized to do that. 12 MS. CHURCHINL: I'm going to ask Will. 13 He's going to come up and help me. 14 15 CHAIRMAN HALL: Along with -- yeah, absolutely. 16 17 MS. CHURCHILL: So I would note a couple of 18 things, as Will is getting us started. Each one of 19 these terminals will be directly fed to a livestream. An audio from that terminal will be fed 20 21 to the livestream. There will not be a video 22 associated with that terminal. There will be a 23 video of the room that will be seen by the public. 24 The public here in the room can choose to use the screens here, or they can choose to use the North 25

Page 21 Carolina General Assembly Wi-Fi to log on, if they 1 wanted to focus on just one of the four terminals. 2 3 And I'm going to walk over to the terminal, so we can turn that on, so you'll see what it's 4 5 going to look like. So from here, you will be able to see a House plan. And so, these are just 6 examples that we have been testing to make sure that 7 8 everything works. These are existing plans; they are nothing new. We just wanted to make sure that 9 everyone had a map that could be seen, can be used; 10 the software works. 11 So this is what you would see on the screen 12 in the room. We will Meave this up and going until 13 after the committee adjourns, so that someone can 14 walk around and see what an actual drawing station 15 16 would look Kike as you were sitting at it to engage 17 with the staff to instruct us how to draw a map of 18 your choosing. 19 CHAIRMAN HALL: And, Ms. Churchill, if you 20 will describe what's the large TV to your right for? 21 MS. CHURCHILL: They are identical. So a 22 staff member will be sitting at the smaller screen. 23 Member, or whoever -- whatever group of members are 24 together, will have the larger screen available to them to stand behind, to sit behind, just so that 25

Page 22 it's a little larger, a little easier to see. 1 2 CHAIRMAN HALL: Members, do we have any 3 questions for -- questions or debate about how the 4 process will work in terms of what Ms. Churchill has 5 just described? Again, I'm going to stand for some 6 questions. 7 Representative Torbett. 8 REPRESENTATIVE TORBETT: Just for reference, it's my understanding - I think she 9 10 eluded to it -- the staffer is there to actually to 11 the map drawing with assistance and information from the member; is that how that's going to work? 12 Because some of us in here have never done map 13 14 drawing. 15 CHAIRMAN HALL: The staff folks are there because they understand how to use the software, but 16 17 it will be completely up to the member to direct the 18 staff member as to how to draw those maps. And 19 staff will -- it wouldn't be appropriate, of course, 20 for staff to make decisions about how to draw. But to answer your question, yeah. You're absolutely 21 22 right. It will be up to the member to tell the 23 staff member, who knows how to use the technology, 24 how to draw. 25 Representative Carney.

Page 23 REPRESENTATIVE CARNEY: So I'm not sure if 1 this question is for now or later, but. So if I 2 3 come in as a member and I'm drawing on a map, and I leave the room, somebody else comes in, draws 4 5 another map, and then I want to make an amendment, how does that work? 6 7 CHAIRMAN HALL: The chair is going to 8 initially respond to that and let Ms. Churchill 9 respond to sort of the mechanics of how that works. 10 But, in the past, what has happened is, if you go in 11 and draw a map, and let's say you want to take a break and go eat lunch, or whatever it is you want 12 13 to do, you can save your map in the system, so that somebody doesn't come behind you and start drawing 14 15 on the map that you've already created. So you'll be able to save that. You'll be able to come back 16 17 later on and draw that map. 18 Now, Ms. Churchill, is that correct, in 19 terms of technology? 20 And I'm going to continue on with that to 21 try to answer what I think your whole question is, 22 but yeah. 23 REPRESENTATIVE CARNEY: Okay. 24 MS. CHURCHILL: So, yes, sir. Unlike with 25 our drafting system where you were used to us being

Page 24

able to get to any prior iteration that we have drafted for you, the mapping software doesn't work quite like that. But we are set up internally to make sure that the map that you closed out before you stepped away to get a bite to eat or go to a committee meeting is always there.

7 When you come back, we will be copying that 8 map to pick up exactly where you left off, so that we will always have that first map, just in case 9 something goes wrong, and you just need to go back 10 11 to it. So there will be an option for you to pick up wherever you left off and continue going from 12 There will be an option for you, if you 13 there. really like what you -- hated what you did in that 14 15 second session you can go back to the first session 16 and pick up again and start over.

17 CHAIRMAN HALL: And to answer your question 18 about how to, perhaps, change a member that another 19 member's drawn -- and I guess the real question is 20 amendments -- there will be an opportunity for 21 members of the committee to put forth amendments on 22 whatever map or maps this committee ultimately takes 23 up.

And the chair anticipates, as we've done in the past, members can decide whether they want to

Page 25 put forth a whole map of the state as an amendment, 1 or whether they're just wanting to amend certain 2 3 groups or I quess even certain districts. Members will be given an opportunity to put those forth. 4 5 REPRESENTATIVE CARNEY: So just a follow-6 up. 7 CHAIRMAN HALL: Yes. Lady is recognized. 8 REPRESENTATIVE CARNEY: And I have never drawn these maps before, so that's why I have all 9 10 these questions. So these amendments would come -our amendments would come after we have a map? 11 CHAIRMAN HALL: Yeah. So if the lady will 12 think about it just like a normal committee meeting, 13 where a bill is before the committee --14 15 REPRESENTATIVE CARNEY: Right. 16 CHAIRMAN HALL: -- and members are putting 17 forth their own amendments, or perhaps they're 18 wanting their own bills to be put forth at a given 19 time. Really, the easier way to think of it is, 20 members are wanting to put forth their amendments to 21 the bill that's on the floor. The opportunity to do 22 that will be there. If, let's just say that you like the map 23 24 that's before the committee, but for a couple of the groupings, and you know, rather -- if you just want 25

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1	to focus your argument, or whatever the case may be,
2	on those two groupings, the lady can say, look, here
3	are the two groupings. I'm just putting those forth
4	as an amendment. I'm okay with the rest of the map.
5	The opportunity to do that will be given.
6	REPRESENTATIVE CARNEY: Thank you very
7	much.
8	CHAIRMAN HALL: And let me say with that,
9	obviously, we're under a tight time constraint. And
10	so we don't have time for the committee to consider
11	100 maps from every member, you know, who's on
12	there. So at some point, the chair will have to
13	limit that. But as of now, the chair doesn't
14	anticipate having to limit members amendments or
15	proposed maps. Chair thinks that we'll be able to
16	do that in a time efficient way, and still get our
17	work done in time for filing.
18	Other questions or debate again for
19	legislative staff?
20	REPRESENTATIVE RICHARDSON: Mr. Chairman?
21	CHAIRMAN HALL: Representative Richardson.
22	REPRESENTATIVE RICHARDSON: If I might.
23	Would it be the best practice if when we're drawing
24	if we're doing a map, that we articulate our
25	reasonings? Like the criteria that we have listed
Page 27 and adopted, like communities of interest, should we 1 2 -- if we do an amendment, or do part of a map, or do 3 part of a district, should we state the reasoning on there that it follows the criteria and which 4 criteria it follows or just not comment? Or what 5 are we -- give us some guidance on that. 6 7 CHAIRMAN HALL: You know, that's really up 8 to each individual member as to what they want to say while they're drawing the map. And if a member 9 10 wants to say, "Here's why I'm doing this," every 11 member is free to do that. This committee has adopted a set of criteria that's to be used in 12 drawing the maps, and so that will be the member's 13 choice whether they think that is a best practice or 14 not a best practice. 15 Further questions or debate? 16 17 Representative Carney. 18 REPRESENTATIVE CARNEY: Thank you, Mr. Chairman. So if -- did I hear you or Erika say 19 20 that the public is going to have access to all these 21 portals; is that correct? 22 CHAIRMAN HALL: So --23 REPRESENTATIVE CARNEY: As we are drawing. CHAIRMAN HALL: -- I'll let --24 25 Ms. Churchill, go ahead and answer that,

Page 28 and I may weigh in. 1 2 MS. CHURCHILL: Okay. 3 So, Representative Carney, as this is set 4 up currently, a member of the public can choose to 5 look at what is happening at station one online. A member of the public could choose to come to the 6 room and sit in the back and could see all four 7 8 stations going simultaneously. But to the best of our knowledge, the public will not be standing 9 behind a station, over your back, over staff's back, 10 instructing, conversating, that kind of thing. 11 REPRESENTATIVE CARNEY: Okay. 12 Just a 13 follow-up. CHAIRMAN HALL: The lady is recognized. 14 15 REPRESENTATIVE CARNEY: So will that --16 each time a member comes and draws a map, is that 17 archived for the public? CHAIRMAN HALL: So the chair's 18 19 understanding is that any map that's drawn by a member of this committee in this committee room 20 becomes a public record. 21 22 Ms. Churchill, will you speak to that? 23 MS. CHURCHILL: Yes, sir. 24 Our understanding, as well, because this 25 map is being drawn in public before the committee,

Page 29 it is a public record. We will have a copy of it. 1 It will be saved forevermore. At this time, we have 2 3 not been instructed to place any of those maps online. If the committee so instructs, we will be 4 happy to do that. 5 REPRESENTATIVE CARNEY: So that -- may I 6 7 just comment why I'm asking that question? 8 CHAIRMAN HALL: The lady is recognized. REPRESENTATIVE CARNEY: \_\_\_\_\_ Is through the 9 public hearings, I was -- attended a lot of those, 10 and that was one of the questions that kept coming 11 up over and over again is, will the public have an 12 13 opportunity to be a part of drawing these maps, or 14 seeing, actually having access to the drawing of 15 these maps, publicly. That was why I was going that 16 way. 17 CHAIRMAN HALL: Representative Cooper-18 Suggs. 19 REPRESENTATIVE COOPER-SUGGS: Thank you, 20 Mr. Chair. And thank you, Erika. 21 22 Still on that same vein, in talking about 23 the public, and the maps that we're going to see, we 24 know that the public has had that keen interest, by attending the sessions, as well as the feedback that 25

Page 30 1 they have given. So what steps are you proposing to 2 assure that the public be involved in these maps 3 that represent them? 4 CHAIRMAN HALL: And if the lady will 5 indulge me to wait just a minute, until I can let Ms. Churchill sit down. Because the chair is going 6 7 to take questions like that one, for example. 8 If there are any other questions for Ms. Churchill --9 And I will come back to you, Representative 10 11 Cooper-Suggs. 12 REPRESENTATIVE COOPER-SUGGS: Thank you so 13 much. CHAIRMAN HALL: Representative Torbett. 14 15 REPRESENTATIVE TORBETT: Thank you. I was going hope I think this one fits in this segment. 16 17 Is there intent -- should we have an anomaly or a 18 glitch in the technology, do we think the mapping 19 should suspend until such time that that glitch will 20 reconnect or --21 CHAIRMAN HALL: We'll deal with that if and 22 when it happens at the time. Let's hope it doesn't. 23 Representative Brockman. 24 REPRESENTATIVE BROCKMAN: I'm not really 25 sure if this question was answered, but

Page 31 Representative Carney asked if members of the public 1 2 would know who was drawing maps at the specific 3 time. Will they know, say, for example, 4 Representative Brockman is working on a map at this 5 time; will they know that? CHAIRMAN HALL: Ms. Churchill? 6 7 MS. CHURCHILL: At this time, the way it is 8 set up, no, sir. They will know that -- they will be able to see what is being drawn on station one. 9 From the audio, they would be able to hear your 10 voice, your instructions, but there would not be a 11 label that was there at all times to say that this 12 13 is Representative Brockman speaking. We can try to work on something of that nature, if the committee 14 15 would like. 16 CHAIRMAN HALL: The gentlemen is 17 recognized. 18 REPRESENTATIVE BROCKMAN: But there would 19 be something that says, at the end of the day, that 20 this is Representative Brockman's map; is that 21 correct? 22 CHAIRMAN HALL: Yes. So the chair will 23 speak to that. There will be something on the final 24 map that says who has drawn that map, at least the original part of it. It may be amended, but the 25

	Page 32
1	amendment will have the member's name on that. And
2	we've done that in the past.
3	Ms. Churchill.
4	MS. CHURCHILL: And I might kind of step in
5	just a little bit to remind everyone that the maps
6	are not what the General Assembly enacts. It is the
7	bill that is sponsored by a bill sponsor, just like
8	every other bill in the institution. The amendments
9	the same way. For an amendment offered by
10	Representative Brockman, the amendment will state
11	that it was offered by Representative Brockman. It
12	will have attached with it a visual of the map, but
13	it is still technically the amendment that the
14	General Assembly is voting on. So yes, sir. All of
15	that will come together.
16	CHAIRMAN HALL: Okay, members. Are there
17	any questions that are just for Ms. Churchill, at
18	this point? I know another one may arise, so she's
19	not leaving.
20	Okay. If not, Ms. Churchill, thank you
21	very much for your eloquent presentation.
22	Members, the chair is going to hand the
23	gavel over to Representative Saine and stand for
24	questions.
25	VICE CHAIR SAINE: All right,

	Page 33
1	Representative Hall. Are you ready?
2	CHAIRMAN HALL: I am. And, Mr. Chairman,
3	if you will start with Representative Cooper-Suggs.
4	She had a question that was appropriate for the
5	chair, but I wanted to wait until I got over here to
6	answer it.
7	VICE CHAIR SAINE: The chair would be happy
8	to do that.
9	Representative Cooper-Suggs.
10	REPRESENTATIVE COOPER-SUGGS: I can wait.
11	I can hold off for a moment of If that's all right.
12	CHAIRMAN HALL: Okay. Fair enough.
13	VICE CHAIR SAINE: Fair enough. Thank you,
14	Representative Cooper-Suggs.
15	Representative Richardson, I think I've got
16	you, and then maybe Representative Harrison.
17	REPRESENTATIVE RICHARDSON: Mr. Chairman,
18	thank you for taking these questions. When we went
19	to these public hearings, I heard over, and over,
20	and over again several things, you know, communities
21	of interest, you know, and the like. But one thing
22	I heard repeatedly was is that the public wanted
23	input after we came up with maps, before we voted on
24	them. I know we're on a tight budget, a tight
25	schedule, you know, with this, and it's going to be

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1	tough. But is it your plan to have some public
2	hearings after before we vote on the final maps,
3	but while the maps are up for consideration?
4	CHAIRMAN HALL: Thank you, Representative
5	Richardson. So what I will say is that I do
6	anticipate there being some manner of public hearing
7	on whatever the final proposed version of the map
8	is, before the House approves that. And we've done
9	that in the past.
10	But, you know, I want to speak to what I
11	think is often missed sort of in the story about
12	when or how we're going to do public comment this
13	time around. And that is, the way that we're doing
14	this, the way this committee, as well as the Senate
15	committee, has decided to do this process is simply
16	unprecedented.
17	The folks on this committee could decide as
18	a committee that we're not going to do this out in
19	the open. The law would allow committee members, we
20	could just simply have somebody draw these maps
21	behind closed doors, as has been done in the past.
22	The law would allow the use of election data to be
23	used in these maps, and there's no binding
24	precedent, whatsoever, that prevents this committee
25	from using election data in drawing those maps and

1 preventing the committee from doing it behind closed 2 doors.

3 We are voluntarily saying we don't think that's the best way to do this. We think the best 4 way to do this is in this committee room, with these 5 screens, the technology to allow members of the 6 7 public to watch what's going on, to listen to what 8 we're saying as we're drawing these maps, to literally, in real time, watch us draw these maps. 9 10 That has never been done before in a voluntary 11 manner.

In 2019, you were here, Representative 12 Richardson, and many members of this committee were 13 here, we did that in some fashion because we were 14 Gentleman's a lawyer, I think 15 court ordered to. he'll agree there's no binding precedent from that 16 17 decision, and this committee would be free to go 18 right back to having some consultant draw these 19 behind closed doors, put them on the floor here, and 20 vote on them. But we're choosing not to do that. 21 We're taking the unprecedented step of 22 being as transparent as I believe we possibly can 23 with the way that we're doing this committee 24 process. Obviously, you know, things can always be done better. We want to do that, if we can. 25 But

Page 35

	Page 36
1	the unprecedented amount of transparency should not
2	be lost, not only on the members of this committee,
3	but the members of the public, as they watch us do
4	our business.
5	REPRESENTATIVE RICHARDSON: Thank you.
6	VICE CHAIR SAINE: Thank you.
7	Representative Harrison.
8	REPRESENTATIVE HARRISON: Thank you,
9	Mr. Chair.
10	Thank you, Chair Halk. Looking at
11	looking at Doctors Carter, Mattingly, et al.'s
12	article and Erika Churchill mentioned this
13	they say they want that's the one part of the
14	Stephenson v. Bartlett decision this analysis does
15	not reflect its compliance with is the Voting Rights
16	Act.
17	So I sort of skimmed Stephenson v.
18	Bartlett, in anticipation of this meeting, and I'm
19	just wondering, because that seems a very important
20	point of the Stephenson decision is compliance with
21	the Voting Rights Act. So how so we're starting
22	with maps that don't take that into account at all,
23	and I'm just wondering how we're complying with
24	that?
25	CHAIRMAN HALL: Thank you for the question,

Page 37 Representative Harrison. As the lady knows, this 1 committee has made a decision to not use race at all 2 in the drawing of our maps. I'll also note that, as 3 you know, there's been a lot of litigation in this 4 5 state over the redistricting process in general. We've had many, many lawsuits going back to when 6 7 Democrats were in the majority and since Republicans 8 have been the majority. It's really been no different. We've had many, many lawsuits. 9 What we've seen in those lawsuits, at least 10 in the last few lawsuits that we've seen, is the 11 plaintiffs in those suits that were trying to set 12 aside those maps have said that there is no legally 13 significant racially polarized voting in North 14 Carolina. That is the plaintiffs and their own 15 experts who are saying that. 16 We've drawn maps in both 2017 and 2019, not 17 18 using racial data at all. And those maps have been approved -- groupings, rather -- the lady's question 19 is specifically as to groupings, and I'm sort of 20 21 answering the grouping and map question in one. But we've used groupings in 2017 and in 2019, not taking 22 23 into account any sort of racial data at all. And courts have uniformly upheld those groupings that 24 we've used, without using racial data. 25

Page 38 So we are going to stick with the criteria 1 of the committee and not consider any racial data at 2 all. And based on the past precedent of doing this, 3 we're confident that that will comply with the 4 5 Voting Rights Act. REPRESENTATIVE HARRISON: Follow up? 6 VICE CHAIR SAINE: You're recognized. 7 8 REPRESENTATIVE HARRISON: I appreciate that very thoughtful answer. I actually meant with 9 10 regard actually to the whole mapping process, so you anticipated my question. But I'm looking at section 11 two, that provides to states that "political 12 subdivisions can't impose any voting qualification 13 or prerequisite that impairs or dilutes, on account 14 15 of race or color, a citizen's opportunity to participate in the political process to elect the 16 17 representative of his or her choice." 18 So how do we know -- if we don't take into 19 account race, how do we know that we're complying 20 with the Voting Rights Act? And I kind of 21 understood you to say that we're relying on past, 22 but I'm just -- can you respond to that, please? 23 CHAIRMAN HALL: And that's the way -- the 24 way we know is because we've already done it. We've done it before and courts have upheld the drawings 25

	Page 39
1	of these maps, the groupings and the districts
2	themselves, without this committee using any racial
3	data at all. We've done that twice now, so I'm
4	confident that, without using racial data, we will
5	comply with the Voting Rights Act.
6	REPRESENTATIVE HARRISON: One more follow-
7	up, I think.
8	VICE CHAIR SAINE: You're recognized for
9	follow-up.
10	REPRESENTATIVE HARRISON: Thank you.
11	And I guess a lot of my questions have to
12	do with compliance with the Voting Rights Act, and I
13	think I understand your answer is going to be the
14	same, so I'll move to the Common Cause decision that
15	you referenced earlier. And I appreciate the
16	committee's commitment to transparency.
17	You did say it's an non-binding precedent,
18	so you all don't anticipate do you anticipate
19	using any of the ruling from the holding from that
20	decision to guide this process? Do you all feel
21	bound by any of that decision in terms of following
22	the process that the court ordered?
23	CHAIRMAN HALL: From a strictly legal
24	stance, it's not a binding precedent that anyone is
25	required to follow. But as the lady knows, based on

Page 40 the criteria the committee has adopted, that is 1 something that this committee has to follow. And 2 we've taken a lot of language out of that opinion 3 and put it into this committee's criteria. 4 5 The computers that you see here and the online audio and video, none of that is binding. We 6 7 are voluntarily doing that. You know, frankly, we 8 learned from that case that perhaps a better process is one that is just like we're doing -- like we did 9 10 then, like we're doing now, as an open and 11 transparent process. So, you know, while it may not be binding, the committee has chosen to impose upon 12 itself some of the principle outlined in the Common 13 14 Cause case. 15 REPRESENTATIVE HARRISON: I think I'm going stop for now and let somebody else ask questions. 16 Ι 17 might have more. Thank you. 18 VICE CHAIR SAINE: Thank you, 19 Representative Harrison. 20 I have Representative Cooper-Suggs and then 21 Representative Hawkins. Representative Cooper-Suggs, you're 22 23 recognized. 24 REPRESENTATIVE COOPER-SUGGS: Thank you so 25 much, Mr. Chair, and Representative Hall. Thank you

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Page 41 so much. My question was -- it goes back to the public's input and that the keen interest that they've had in this process, and we've seen that, you know, as I stated earlier, through the districting process as well as through the online portals too. Over 3000 people have responded, so we know that there's interest out there. And so my question deals with, what steps are you proposing to assure that the public be involved in the efforts to create maps that represent them? CHAIRMAN HALL: Thank you, Representative Cooper-Suggs, for the question. So I'll go back to what I said previously in response to, you know, what efforts are we making to make sure those folks can follow this process to make sure that it's doing whatever they feel like it should do. Because some of members of the public feel one way about what this process should ultimately end up with, and others feel in different ways. They're differing opinions. Again, I think it's important to understand context of what's happened in the past, in this building, for the past 200 years when this body has

Page 42

drawn maps. What has happened in the past is some outside entity, a consultant, goes and they draw the map behind closed doors. We would come into this committee, just like we're in right now, and throw a map down in front of the committee members and say, "Here's the map that we propose."

We're not doing that this time. What we're 7 8 going to do this time is a more open and deliberative process for this committee. We will 9 literally be drawing on the stations that you see, 10 so members of the public across the state and, in 11 fact, across the world, can log onto the website and 12 watch these maps as we draw them in live fashion. 13 And then we've seen that the public 14 comment portal s actually much more popular than 15 the in-person public comment method, for one reason 16 or the other. We get many more comments through 17 18 that portal. We get many more emails, as members of 19 this committee can attest. You receive emails all 20 the time from folks and, you know, probably messages 21 in many different ways and phone calls.

22 So the public has favored that online 23 portal in telling us how they want to see this done. 24 That portal is going to stay open throughout this 25 process, so an individual sitting anywhere in our

Page 43 state, and again, anywhere in the world, can sit and 1 watch what's happening. Can literally send a 2 3 comment right then, simultaneous with that drawing going on and say, "I'm watching station four. I 4 5 don't like what I see in X district," or "I do like what I see in X district." 6 7 That's going to be time-stamped. The 8 committee members are going to have a chance to read 9 every one of those. And so, there is ample opportunity for members of the public to weigh in on 10 these maps. Again, in the past, there's been little 11 12 opportunity because the maps are already drawn. Folks can come in here and talk all they want, but 13 14 the map has been drawn. That is not the case here. We had public 15 comment ahead of time. We're going to draw these in 16 17 public. And I do anticipate at least some in-person 18 public comment moving forward. With all of that 19 said, I do anticipate at least some form of in-20 person public comment at the end of this. 21 REPRESENTATIVE COOPER-SUGGS: Follow-up 22 question. 23 VICE CHAIR SAINE: You're recognized for a 24 follow-up. 25 REPRESENTATIVE COOPER-SUGGS: I just want

Page 44 to make sure I fully understand this. So how are we 1 2 going to use the comments -- the public comments 3 when drawing these maps? Their actual comments, how 4 are we going to use those? 5 CHAIRMAN HALL: So that's up to each member 6 of this committee to decide what they want to 7 discern from a given comment. We know that if you 8 read all of these comments, there are some of them that you can't do what both of them say. So you can 9 pick out two messages, and one person wants you to 10 do one thing; and the other person wants you to do 11 something else. So what do you do? Well, that's 12 the decision for each member of this committee to 13 make, what they want to do in response to that 14 public comment. What I can tell you this committee 15 16 has done in response to that is to ensure that we 17 have the most transparent process in the history of 18 this state. 19 REPRESENTATIVE COOPER-SUGGS: Thank you so 20 much. 21 VICE CHAIR SAINE: Thank you. Representative Hawkins. 22 23 REPRESENTATIVE HAWKINS: Thank you, 24 Mr. Chairman. 25 Thank you, Chairman Hall. I really

Page 45 appreciate you taking the time, and not only to sort 1 of travel across the state for these public 2 3 hearings, but to take these questions. And so, one of the things that you 4 5 mentioned that I want to follow up on is you said, "throughout this process." Meaning that the public 6 7 comment portal will be opening throughout this -can you define what that is? Because I know I've 8 actually received that question on our start and 9 ending time, so that people know how to engage it 10 fully, and sort of when their last time is to do so. 11 CHAIRMAN HALL: I anticipate that public 12 comment portal being open until at least the time 13 that this body adopts -- meaning the House and the 14 15 Senate, the General Assembly, at least until the time the General Assembly adopts state House maps, 16 17 state Senate maps, and congressional maps. That 18 public comment portal will stay open until at least 19 that time. 20 REPRESENTATIVE HAWKINS: Follow-up. 21 VICE CHAIR SAINE: You're recognized for a 22 follow-up. 23 REPRESENTATIVE HAWKINS: Thank you, 24 Mr. Chairman. 25 So a follow-up question is around I think,

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1	you know, earlier, yourself or Erika Churchill
2	mentioned hearings. And so, of course that's
3	probably the most popular question is if we're going
4	to have hearings after this. And you said that that
5	would be up to this body.
6	Can you give us a time line in the way you
7	see this and when we would kind of make that
8	decision? And when you think that this body should,
9	you know, between now and when we actually have to
10	file, when we need to do that? Because I think,
11	again, a lot of folks would want to know if we're
12	going to sort of go back out on the road and talk
13	about these again.
14	CHAIRMAN HALL: You know, I'll answer that
15	by saying, you know, as the gentleman knows, we're
16	on an extremely truncated time line, and that's
17	nobody's fault in this body, on either side of the
18	aisle. We just simply didn't get the data in time
19	to do this in the way that it's been done in the
20	past. And especially when you couple it with the
21	fact that the maps aren't being drawn by a
22	consultant somewhere and being delivered here, and
23	us going and voting on them. We're going to do
24	that.
25	We're going to take the time to draw these

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in this committee, out in the open, and that takes time. As the gentleman knows, you know, we've drawn these maps together in years past. We haven't done it this year, for everybody listening at home. He and I, in the past, we've worked together on drawing maps in prior sessions.

So it's difficult to say and commit to some 7 8 form of public comment afterwards because the reality is we've got to get these done in time for 9 10 the state board of elections to get ballots finalized. I don't know, frankly, how long it's 11 going to take us to draw these maps. I expect to 12 hopefully start to get some gauge as we get in this 13 thing tomorrow, but for all I know, you know, it may 14 be the last week of October and we're still in this 15 room trying to finalize one version of these maps. 16 17 And they really need to all be done in the 18 sense that we need to have some final map in place

19 before that public comment comes in, so that they 20 can comment on whatever it is that we're

21 considering.

Again, I will say that I do anticipate at least some form of in-person public comment. I just don't know the method, where it will be at, and how much it will be, because of our truncated time line.

Page 48 But I will just again say, the online version has 1 been extremely popular. We've had a lot more 2 3 comments there than we've had at some of the in-4 person sites, where we didn't have a ton of people 5 show up. Some sites, we did have a lot, and others, 6 not so much. 7 So, you know, folks across the state still 8 have the ability to directly communicate with us and they've got the chance to watch this happen live. 9 So, you know, I am satisfied that the public's got 10 ample opportunity to weigh in on what we're doing 11 12 in. REPRESENTATIVE HAWKINS: Thank you. 13 One last follow-up, Mr. Chairman. 14 15 REPRESENTATIVE SAINE: You're recognized for a follow-up. 16 17 REPRESENTATIVE HAWKINS: Again, to be 18 clear, in 2019, when we worked on this project together on behalf of the citizens of North 19 20 Carolina, we both had -- and everyone did -- had a 21 keen interest in groupings because we understand 22 that the way that counties are grouped directly 23 relates to how districts are potentially drawn. 24 And so one thing that came up last time, but I think we can sort of potentially get ahead of 25

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1 it this time, is how, you know -- how the committee 2 will approve the entire map. Or is it possible for 3 us to go and approve grouping by grouping, once we 4 go through this process?

5 Because I think, again, if you remember, a division of the vote in the 2019 session, that would 6 7 have given us the ability to isolate and really draw 8 down on each individual grouping, which I think could be really helpful. But I wanted to see what 9 the chairman thought about that ability for us to do 10 that this go round, sort of understanding how we did 11 operate in 2019. 12

13 CHAIRMAN HALL: You know, I anticipate, as I said earlier, taking up member's amendments that 14 15 they have, in whatever format that they want to put forth, whether that be an entirely new map or a 16 17 specific grouping, with the only caveat of saying we 18 can't take up -- every member of this committee 19 can't up with 50 or 100 amendments and us possibly 20 have time to get this done.

So assuming that doesn't take place -which it hasn't in the past, and so I don't anticipate that being the case this time around -- I think it will be similar to what we saw last time, and that is, you know, members can put the amendment

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1	in whatever form they really saw fit.
2	REPRESENTATIVE HAWKINS: I keep saying one
3	last follow-up, Mr. Chairman.
4	VICE CHAIR SAINE: Well we'll give you one
5	last follow-up.
6	REPRESENTATIVE HAWKINS: And so, you know,
7	I, like you, native North Carolinian, and my
8	birthday is in May, so I was always used to having a
9	May primary. And I understood, you know, why we
10	moved it to March, to play in the presidential. But
11	this is a mid-term, and so, is there any appetite,
12	potentially, to move the primary back to May, in the
13	mid-term, versus the way we do it in presidential
14	years? To give us the ample amount of time to work
15	on these maps and have the potential public comment
16	and have the fun that we did last go round on this
17	project.
18	CHAIRMAN HALL: You know, I'll answer that
19	question by saying you know, I haven't seen that
20	appetite from the body. You know, I chair
21	redistricting and rules and I will leave it at that.
22	You know, I don't anticipate us moving that deadline
23	back, I think for a number of reasons.
24	But one of the best reasons, I think, is
25	folks have planned for that for some time now, and I

Page 51 1 certainly understand the gentleman's argument that 2 perhaps it gives us more time to get it done. But on the same token, you've got folks who have been 3 running for maybe statewide offices, and you've got 4 5 folks who have planned to run at given times, and so, at this point in the game, I anticipate keeping 6 7 our filing deadlines as is. 8 REPRESENTATIVE HAWKINS: Sure. Well I would just argue, Mr. Chairman, that it gives those 9 people -- North Carolina has ten and a half million 10 people, and it's a pretty big state, so that would 11 give those statewide folks a lot of time to know the 12 people of North Carolina. But I really appreciate 13 your time, Mr. Chairman. And thank you for the 14 ability to ask questions. 15 16 CHAIRMAN HALL: Thank you, sir. 17 VICE CHAIR SAINE: Thank you. 18 Any other questions? Representative Harrison, and then 19 20 Representative Carney. 21 REPRESENTATIVE HARRISON: Thank you, Mr. 22 Chair. 23 And Chair Hall, when you were talking about 24 us being bound by the criteria of not using race or partisan data, so any individual can -- any member 25

Page 52 of the House can draw a district, will they be bound 1 by the same criteria? 2 3 CHAIRMAN HALL: Yes. So to be clear, only a map that's drawn in this room is going to be 4 5 considered by this committee. And on these computers in this room, you essentially are bound by 6 that criteria because there is no racial data or 7 8 election data that's loaded into these computers. 9 But to answer your question, yes. Everybody will be bound by the same criteria. It's 10 not that a member that's not on the committee can go 11 draw whatever map they want to and sort of get 12 around our rules because they're not on the 13 committee. They must follow the criteria. 14 15 REPRESENTATIVE HARRISON: For a follow-up? VICE CHAIR SAINE: You're recognized for 16 17 follow-up. 18 REPRESENTATIVE HARRISON: But it seems 19 like if you come in, and you might have the material 20 with you, it might not be actually loaded in the 21 software, but you might actually have -- I just 22 didn't know if there was some way to enforce that, 23 or how do you plan to do that? CHAIRMAN HALL: Well, you know, I don't 24 plan to search every member who comes into this 25

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1	committee room, nor do I want to do that. I don't
2	want to know what some of you all have in there.
3	But, you know, it's one of those things where, at
4	the end of the day, the members of this committee
5	are elected representatives. You're elected by your
6	constituents to come up here and do a job. And, you
7	know, I'm not going to I always try not to
8	question people's motives when they do something,
9	and I think this falls in that same vein.
10	So, you know, members can are free to
11	handle those issues as they see fit, but they will
12	follow the criteria in the sense that that data is
13	not in these computers. But I'm not going to I'm
14	not going to search their bags when they walk in.
15	VICE CHAIR SAINE: Recognized for a follow-
16	up.
17	REPRESENTATIVE HARRISON: Thank you.
18	Appreciate that.
19	And I think in 2019 we had a portal open
20	for the public to draw maps. Are we planning on
21	doing that this time around?
22	CHAIRMAN HALL: We are.
23	And if the chair will recognize
24	Ms. Churchill to speak to that.
25	MS. CHURCHILL: Yes, ma'am. Representative

Page 54 Harrison, there will be two public terminals 1 2 available for use starting tomorrow morning at 9:00 a.m. The public will be asked to schedule in 3 advance, so that they can assure that a terminal is 4 5 there during the time that they want to use it. They will be asked to bring a thumb drive, or other 6 device where they can save their work, because the 7 8 terminal will be reduced back to its original state when they leave. 9 10 REPRESENTATIVE HARRISON: I appreciate 11 that. I think I have two more questions, and 12 they're quick, hopefully. I don't want to belabor 13 the point, but in the last meeting we had on August 14 18th, several of us had gotten together and 15 16 advocates had proposed a public participation process and a transparency process. 17 18 We also all received a letter from Caroline 19 Fry, on Friday, that came from a large group of 20 advocates asking for procedures to be followed by 21 this committee. One of those is transparency 22 related to third-party participation, disclosure of 23 that. Is there any plan to the extent that folks 24 are consulting with counsel or data people, or -- is there any plan for disclosure of that sort of issue? 25

Page 55 CHAIRMAN HALL: You know, in the same vein 1 of -- as chair of this committee, I'm not going to 2 3 make it a practice to search people's folders or their bags when they come into this room. I'm also 4 5 not going to inquire into everybody that they're talking to one way or the other. Again, we're all 6 7 elected here. You've got a duty to your 8 constituents, and you've got the decision to make as to how you want to carry out that duty. But I, as 9 the chair of this committee, IAm not going to police 10 who folks are talking to. 11 REPRESENTATIVE HARRISON: I appreciate 12 that. And just last follow-up. I don't think I was 13 asking about policing, but just disclosure. And I 14 think that was what the public was asking for. 15 Thank you. 16 17 VICE CHAIR SAINE: Thank you. 18 I've got Representative Carney and then 19 Representative Hawkins. 20 Representative Carney. 21 REPRESENTATIVE CARNEY: Thank you, 22 Mr. Chairman, and Representative Saine. 23 And Mr. Chairman, thank you for taking all 24 of our questions this afternoon. I want to go back to the drawing of these maps in this room. And I 25

Page 56 quess I am one that envisioned, at first, that this 1 committee would come in here for two weeks, gathered 2 3 around the maps, work together in a non-partisan way to draw these maps out in the public, as you've 4 5 stated. But I'm hearing now, and I'm understanding, member -- when you said any member can come in here 6 7 from 9:00 to 5:00 Monday through Friday for two weeks -- correct me if I'm wrong. 8 CHAIRMAN HALL: 9 That's right. REPRESENTATIVE CARNEX: But any member of 10 the legislature. House members in here, and I guess 11 the Senate will be doing the same. So it is going 12 to be beyond -- the map drawing will go beyond just 13 the committee members; is that correct? 14 15 CHAIRMAN HALL: Yes. And one thing I do what to correct that you said. You said Monday 16 17 through Friday for two weeks. I don't know if it's 18 going to be two weeks or not. I don't know how long 19 it's going to take. But -- and I understand why the 20 lady is asking the question. 21 And, you know, having done this in a similar fashion in 2019, what ends up happening when 22 23 you leave this committee room open for that long, it 24 gives members an opportunity to come in and draw as they see fit. Just as you and I have the right as 25

Page 57 House members to draft -- to have drafted whatever 1 2 bill we want to have drafted. 3 The reason that we're doing it that way is, 4 you know, we wouldn't tell members, prior to the 5 filing or bill drafting deadline, we wouldn't say, you know, only certain members can file bills. You 6 7 know, sometimes that may be preferable for our given 8 caucuses, but unfortunately, maybe unconstitutional. 9 So, in the same vein, I want to give every member of the House an opportunity to be able to 10 draft their bill, so to speak, if they want to do 11 12 that. But you also see happening, especially sort of in peak hours, so to speak -- so, you know, in 13 the mornings I would anticipate on like Tuesday, 14 Wednesday, Thursday, you're going to have several 15 16 people in here. And Representative Hawkins and I 17 have done this in the past. Some of those parts of 18 the maps that we're under right now, he and I 19 literally drew together in this committee room. I 20 mean, substantial parts of them. We didn't have to 21 agree on every single thing, but substantial parts 22 of them, you know, we sat down and drew them 23 together. 24 So some of that will happen. You know, 25 members may ask members from given districts to come

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1	over and say, "Hey, what do you think about, you
2	know, this given area? You know it better than I
3	do." So that's going to be allowed, I mean, that
4	teamwork, so to speak. But the reason for leaving
5	it open so much is just to give members the
6	opportunity to have their voice heard, so to speak,
7	in this committee room.
8	REPRESENTATIVE CARNEY: So a follow-up?
9	VICE CHAIR SAINE: You're recognized.
10	REPRESENTATIVE CARNEX: If there are 120
11	members out of 120 let's say every member decided
12	to come in and put something in to these maps, a
13	little section, or their own, or whatever, their own
14	districts, how do we pull all of that together? And
15	I know staff will be the ones that will pull that so
16	that it meets all of the criteria, and pass all the
17	must, or whatever. Will we come up with one map, or
18	two, or three maps that then the committee would
19	vote on? I'm just asking.
20	CHAIRMAN HALL: I think we'll have multiple
21	maps that the committee will vote on. You know,
22	just like with any other committee, if you're not a
23	member of this committee, if you want to draw a map,
24	you're going to need to get a member of this
25	committee to present that for you. Just like on any

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Page 59 other committee, if you've got a bill that, if you can't be in a given committee, or you're not on it, you just want somebody on it to present, they need to present it for you. That's probably -- and actually, now that I say that, it depends on the timing. Let me actually take that back. Because if we have time, you know, to let other members come in and speak to that, just like we would other committees, we'll do that. But I do anticipate that sort of creating a time crunch for us. And so most likely what we're going to do is limit it to the members of this committee presenting amendments and presenting their various maps.

15 REPRESENTATIVE CARNEY: And one final. How will this be -- how will we let the other members 16 17 know -- and of the course the public that is 18 listening -- how will be let them know about this process? Is there going to be an email sent out to 19 20 everyone that they will understand what we're doing? CHAIRMAN HALL: We will probably send 21 22 something out just to say, you know, if you want to 23 come in and draw, that you can. But I think that, 24 you know, the rules are fairly simple. Once you get in here you see, you know, you can go to the station 25

	Page 60
1	and draw as you see fit. But we will make it known
2	that all House members have the ability to come in
3	here and draw maps during the committee period.
4	REPRESENTATIVE CARNEY: Thank you.
5	REPRESENTATIVE SAINE: Thank you.
6	Representative Hawkins.
7	REPRESENTATIVE HAWKINS: Yes, sir. Thank
8	you, so much, for the second opportunity to ask
9	questions about redistricting. The first question
10	is around the ability for multiple language speakers
11	to use this portal and have their languages
12	translated properly.
13	Representative Torbett and I were in
14	Durham, and he was so kind to allow for a
15	translator, a Spanish speaking translator, for our
16	Spanish speaking population to take part. And maybe
17	this is a question for staff, since we potentially
18	may not have in-person public hearings in the
19	future, how are multiple languages being transferred
20	into the English language, so that we can decipher
21	it and make sure that they have a part in the
22	process?
23	VICE CHAIR SAINE: Ms. Churchill.
24	MS. CHURCHILL: Representative Hawkins, I'm
25	not going to commit to anything, because I'm not

	Page 61
1	sure what we can do with the technology, but we are
2	absolutely happy to look into what our options are,
3	and report that back to the chair.
4	REPRESENTATIVE HAWKINS: Okay. I also
5	heard you were Erika Churchill, and you can do all
6	things, but just putting that out there.
7	MS. CHURCHILL: Speaking French is not one
8	of those things.
9	REPRESENTATIVE HAWKINS: Okay. 10-4. Just
10	
11	CHAIRMAN HALL: I believe she said not yet.
12	REPRESENTATIVE HAWKINS: Follow up,
13	Mr. Chairman.
14	VICE CHAIR SAINE: You're recognized for a
15	follow-up.
16	REPRESENTATIVE HAWKINS: And this is just,
17	you know, full transparency, Mr. Chairman, so that
18	the public can know that we're, you know, working
19	with all cards up. Is there, you know, any I
20	want to make sure that there have been no maps drawn
21	outside of this building that any of us have been
22	privy to. Can we say that unequivocally that that's
23	been the case?
24	CHAIRMAN HALL: I can't speak for other
25	members of this committee. What I'll say is that I

Page 62 have not contributed to the drawing of any map, at 1 2 all. 3 REPRESENTATIVE HAWKINS: Awesome. Thank 4 you, Mr. Chair. 5 VICE CHAIR SAINE: Thank you. 6 Representative Warren. 7 REPRESENTATIVE WARREN: Thank you. I 8 propose this to the Chair, but probably going to deflect it to Ms. Churchill. Can you explain what 9 the matrix is on page 2 of this stack of maps? 10 VICE CHAIR SAINE: Ms. Churchill. 11 REPRESENTATIVE WARREN: I knew it. She can 12 13 do anything. CHAIRMAN HALL: When we're using the word 14 15 "matrix," generally I'm going to go ahead and deflect that one on over. 16 17 MS. CHURCHILL: So, Representative Warren, 18 I'm not sure that it is a matrix in the form that 19 many people think of when you say that word. But it 20 was our attempt to keep up with how the group from 21 Duke was allocating the options to create the eight 22 different combinations for a fully assigned 23 statewide map. 24 So when you see the A1 option in the Duke House 01 through 04, that is associated with the 25
Page 63 western part of the state, that northwestern corner 1 that was unassigned in the fixed map. The option 2 3 one, the combination is Surry, Wilkes, Alexander, for two members. And Alleghany, Ashe, Watauga, and 4 5 Caldwell for two members. And so it's just, we wanted you all to know that we were trying to 6 7 methodical and systematic, following the recipe. So 8 it's just simply the designations they were using to tell us whether to add salt or to add sugar. 9 10 VICE CHAIR SAINE: Thank you, sir. Any other questions for Chairman Hall? 11 Representative Brockman. 12 Representative Brockman, Representative 13 Reives, and then Representative Harrison. 14 15 REPRESENTATIVE BROCKMAN: I know we're not considering race, but are we considering party 16 17 registration when we're drawing the maps, as 18 criteria? 19 CHAIRMAN HALL: Nope. 20 VICE CHAIR SAINE: Representative Reives. 21 REPRESENTATIVE REIVES: Thank you, Mr. 22 Chair. I had a -- I wouldn't call them a series, 23 but you may call them a series of questions --24 VICE CHAIR SAINE: You're recognized for a 25 series, sir.

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Page 64 REPRESENTATIVE REIVES: All right. 1 Thank 2 you. I wanted to make sure, and I apologize if 3 this is repeating anything, I don't know that I have 4 5 the answer in my head, and I know that when we walk out of this room, that I'm going to get all these 6 7 questions, so I'm trying to kind of figure out where 8 we are. So on the drawing of the maps, I think my 9 big question is -- and I've got to get my glasses 10 back on because I had to type this because I can't 11 see, and I can't read anymore. See what you guys 12 did to me in 10 months. I had 2020 vision when I 13 got here. 14 15 But Dquess first following up on Representative Hawkins' question, and again, it's 16 17 just the question we've got to ask. He asked if 18 there have been any maps drawn outside this building. I would like to know if there have been 19 20 any maps drawn inside the building? CHAIRMAN HALL: No. Great lawyer question. 21 22 But no. 23 REPRESENTATIVE REIVES: Just making sure. 24 I got to ask. 25 CHAIRMAN HALL: You know, again, I'm

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speaking for myself, as the gentleman understands.
I can't speak for what other members have done, on
either side of the aisle, or in the Senate, but I
have not participated inside or outside of the
drawing of any maps, for this session.

REPRESENTATIVE REIVES: That's good. 6 Ι 7 appreciate that. And going on that same issue, and 8 you really, you and I have talked, and now I want to say publicly, you have been very good about keeping 9 10 me up to date with what we're trying to do, how we're trying to do it, and D appreciate that. And 11 we had this discussions but I want to kind of get 12 13 it clearer now.

So my concern is similar to Representative 14 Harrison's concern because here seems to be the 15 16 problem that you run into. So let's say somebody --17 and I'll use somebody who would never do this. I'm 18 going to use Representative Bell. So let's say Representative Bell comes in and he's gone, and he's 19 20 talked to, you know, non-member Billy Richardson, 21 and Billy has said, "Oh, man. This would be a great 22 map for you, John Bell, because, you know, you put 23 all the democrats over here. You put all the 24 republicans here. And then you got you all the black people here and the white people here, and all 25

Page 66 that stuff." Obviously using racial and partisan 1 2 data that we're not using. 3 And so then he says, "Here's my map, so you don't have to worry about drawing it." Well if 4 Representative Bell, under what I'm hearing, brings 5 that map in, sits it down in front of him at the 6 7 terminal, and just draws it on a computer, then he, 8 at that time, has been allowed to draw a map that's been drawn on a computer, so it can be used, but 9 it's still using racial and partisan data. 10 And I'm just like Representative Harrison, 11 I'm definitely not asking anybody to police anyone, 12 but do we have anything in place that would kind of 13 help prevent that Because to me, that sounds an 14 easy get around in a legal sense, around the 15 criteria that we've set up. 16 17 CHAIRMAN HALL: Well, you know, I would 18 initially say that the problem that you face at the 19 end of the day, as the gentleman already knows, and as I've said, I don't think I have the ability to 20 21 police members of this committee, nor do I want to 22 try to do that. I don't think it can effectively be 23 done. The committees of this -- the members of 24 this committee have an elective duty to do things, I 25

Page 67 think in the right way. And we have a set of 1 criteria that we have used in here. I know I'm not 2 going to bring in a map and sit down and draw it, 3 but you know, the reality is, we're elected 4 officials, and people will talk to us, and they call 5 us all the time. And throughout this process, many 6 7 members of the committee and the body are going to 8 be told by folks, whether in their district or in the halls out here, what they think they should do. 9 And in fact, as many of the questions today 10 have shown us, the members of this committee really 11 want the public's comment. And, you know, those 12 members of the public may say, "Representative 13 Reives, I want you to draw the district this way and 14 I want you to do this precinct." And that's up to 15 16 you to determine how you want to handle doing that. 17 But at the end of the day, I think we've 18 done all that we can, in the sense of we're only putting the data that's allowed to be used in the 19 20 computers, in this room, and we've got a live audio 21 feed, and a live video feed. I'm not sure that we can do a whole lot else, humanly, to prevent any 22 23 sort of noise, so to speak, from coming in, other 24 than doing those things. 25 REPRESENTATIVE REIVES: Is it possible,

Page 68 just as a follow-up, that we could at least prevent 1 the bringing in of a physical map to draw from? 2 Is 3 that something possible? 4 CHAIRMAN HALL: Yeah. You know, and you 5 and I talked about this the other day, and I thought 6 it was a great question, something I hadn't really 7 thought about. And, you know, and I certainly, I 8 see your point. But what I don't want to get into, as the chair of this committee, is when, you know, 9 10 Representative Warren comes in here and he's got this big spread, me, you know, telling the sergeant 11 in arms to take Representative Warren, you know --12 or take his map away from him or take him out of 13 this committee room. You know, I want to avoid 14 15 that. And, you know, it's one of those things 16 17 that there might be a scenario where, you know, you 18 draw one map in here -- you've been through this 19 before -- you draw a map, you have it printed out, 20 and you might take it with you to study it and think 21 about it, and to determine what you want to do to 22 perhaps change it. Maybe you want to take it to 23 your constituents and say, "Look, here's what I'm thinking. What do you think about this?" And maybe 24 25 they give you input.

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1	And you might want to bring that very map
2	back in here, that you drew in this committee, and
3	sit down and, based on the changes the input,
4	rather the input you've got from other folks, and
5	make those changes. And I don't know how we would -
6	- again, I go back to the word policing it how I
7	I can't stand over somebody's shoulder and say,
8	"Now that's not the map you drew in here. That's a
9	map I don't know where that came from." I just
10	don't I don't think it's possible to do that.
11	But what I can tell the members of this
12	committee, as the chair i won't be brining any maps
13	in here to draw off of. But I want to be clear that
14	when members of the public that are watching these
15	live video feeds, or members who are sitting in the
16	back, they're going to see members of this committee
17	walking around with maps in their hands. Some
18	people like to have a sheet of paper in front of
19	them. You know, you're probably like me. I like to
20	read, you know, a statue printed out, rather than
21	read it on a computer screen, so that I can write on
22	it, and think about it a little easier.
23	So, because of that, I'm afraid, you know,
24	even if we tried to do that, the optics of removing
25	members from this committee, and people seeing

Page 70 people walking around with maps that have been 1 2 printed out because they were drawn in here, I think 3 it ultimately results in the best path forward to just say, you know, look folks, the map you draw has 4 got to be the one that you do in here and nowhere 5 else. And that's up to the members and their 6 7 integrity as to how they want to handle that. REPRESENTATIVE REIVES: And I would say 8 then, based on that, I'm assuming we will be 9 instructing members that you are not to use racial 10 11 or partisan data in the drawing of the maps that you 12 do in here. Absolutely. 13 CHAIRMAN HALL: REPRESENTATIVE REIVES: And I would also, I 14 guess, say that once we're down to the maps that 15 16 we're going to be voting on, I mean, I would think 17 that's something that we can ask members when 18 they're presenting a map. You know, if a member comes up and says, "This is my map we're voting on," 19 20 you could say, "Okay. You didn't use racial or 21 partisan data," and that won't be considered out of 22 line. 23 CHAIRMAN HALL: I think that's, you know, a 24 fair question for any member of this committee or 25 anyone in the House to ask those very questions.

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1 REPRESENTATIVE REIVES: All right. Well 2 then that gets us to the next question I've got. We've got criterion that we've put in place that we 3 set up for the whole map drawing process. What my 4 question is is what criteria are we going to use to 5 choose between grouping options? Are we going to 6 have some plain set out criteria saying this is what 7 8 gives us the best grouping options?

9 CHAIRMAN HALL: So the committee is not going to adopt any specific of the options and 10 groupings. We have said, as I said a moment ago 11 when I was chairing, the only groupings that we're 12 going to consider, are those that's in this packet. 13 But as you know, and the committee members know, 14 there are multiple possible groupings within that 15 packet. We re not going to vote on which one 16 17 members have to use.

18 So that's going to be up to the members of 19 this committee what combination of groupings each 20 member wants to use in drawing their maps. Within 21 that, there might be, you know, one particular 22 grouping, or set of groupings, that somehow results 23 in a map that more fairly meets the criteria, over some other set of groupings. But that's -- you 24 know, in large part, some of that is subjective. 25

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1	Not all of it, but some of it is subjective.
2	But it's going to be up to the committee
3	members to decide what set of groupings they want to
4	use. We're not going to limit the committee to any
5	one combination of groupings.
6	REPRESENTATIVE REIVES: Thank you for that.
7	And back to some of Pricey's questions on the Voting
8	Rights Act. Because I'll be the first to say, I
9	don't practice in that area, so I don't profess to
10	completely understand what we're supposed to do.
11	I think what my question would be is, what
12	do you feel like our obligations are under the
13	Voting Rights Act, at this point? Because I
14	understand that you're saying that we won't be using
15	racial data to determine what those districts look
16	like, initially, which I think was done before. So
17	what do you think our obligations would be and how
18	are we going to comply?
19	CHAIRMAN HALL: Well, obviously, you know,
20	we're obligated to comply with section two of the
21	Voting Rights Act. But as I said earlier, we've
22	seen a lot of litigation in this state, and you've
23	followed that, I've followed it. I can't say I've
24	read every line of every single case, because that's
25	all you would ever do, you know, if you were going

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to go do that. But I've read a lot of it, and in my opinion, what the plaintiffs have said -- so those folks who have tried to set aside maps -- have said -- and their experts, by the way. The experts that they hired to go to court for them. They've all said that there is no legally significant racially polarized voting in North Carolina.

8 That's the evidence in the record from past 9 cases that we have. In my opinion, that's what the 10 Covington Court found. So Judge Wynne found that 11 there was no legally significant racially polarized 12 voting in North Carolina. But certainly, the 13 plaintiffs and their experts made that claim.

So without that, we believe, as we've done in the past two sessions that we've redrawn, not considering race is actually, not only proper, but it's the best way forward to make sure that we are complying with, not only the Voting Rights Act, but other state and federal laws.

20 REPRESENTATIVE REIVES: And also, based on 21 the court decisions, I heard you earlier say that we 22 are choosing not to use partisan data, but since 23 there's no binding precedent -- was your statement 24 about that -- then what obligations do 25 you feel like we have, based on the case that talked

Page 74 about partisan gerrymander? Do you feel like that 1 we have any obligations based on that case, or 2 that's just something we all have to talk about? 3 CHAIRMAN HALL: It's not a legally binding 4 5 precedent. It's not an appellant, because the gentleman knows it wasn't an appellate court that 6 7 made any of those decisions. So to answer the 8 technical aspect of your question, it is not legally 9 binding. 10 However, we have adopted some of the opinion in our criteria, so to the extent that we 11 adopted it into our criteria, that's binding on this 12 committee. We've also taken some things that we 13 didn't really adopt as criteria, but simple 14 15 instructions to the committee that was in that case, 16 and that is all of these computer stations that we 17 see around, the live audio, live video, we're 18 voluntarily doing that. 19 Again, not binding on us at all. There is 20 certainly no state law that requires this body to 21 have TV cameras to watch us do anything. I mean, we 22 can have -- we have to have open meetings, when the

23 body's meeting, but there's no law that requires us

24 to be transparent in this process. We are

25 voluntarily choosing, at every single step along

Page 75 this line. We are going above and beyond what the 1 law requires us to do, in my opinion, in terms of 2 3 transparency. 4 REPRESENTATIVE REIVES: All right. And I 5 think I've got one follow-up that may be more appropriate for staff, but if you'll just determine, 6 Mr. Chair, who is best to do it. Because while you 7 8 were talking, I was also thinking back on the Voting Rights Act. I guess my question is, how do we know 9 10 we're in compliance with the Voting Rights Act with 11 a map then, if we're not using racial data during this time? 12 CHAIRMAN HAML: Well, again, I would fall 13 back on what we've done in the past. And we have 14 15 done this in the past in the very method -- with the 16 very method that we're using right now. We haven't 17 used racial data. And those courts have upheld that 18 process. So we're essentially sticking with what 19 works. 20 As the gentleman knows, this is an 21 ever-evolving body of law around redistricting. All 22 we can do is try to stick with what we know works 23 based on past precedent. And in this particular instance, we're confident, just as we've done in the 24 past, that we should not use racial data at all, and 25

Page 76 that doing so, we'll be in compliance with all state 1 2 and federal laws. 3 REPRESENTATIVE REIVES: Okay. And I'm 4 going to repeat what I think I'm hearing, and just 5 tell me if I'm accurate. So, if I'm hearing you correctly, we won't be doing anything proactively to 6 7 see if we're in compliance. What we'll be doing is 8 we'll draw maps, and it's our believe that those maps will comply. And then if the courts tell us 9 10 they're not in compliance, then that would be when 11 remedial measures would be taken. CHAIRMAN HALL: In my opinion, not using 12 racial data will ensure that we are in compliance 13 with those laws. So yes. 14 15 REPRESENTATIVE REIVES: Okay. Got it. And 16 when we get down to the point on voting on these 17 maps, I mean, are we going to do any kind of culling 18 -- I'm with you in the sense I want this to be more 19 of an efficient process, and if I'm hearing 20 correctly, what our process is, in theory, 120 21 members can walk in here and draw 120 maps, and then can have 120 amendments, which could really kind of 22 23 have us all over the place. Is there anything that 24 we're doing to kind of cull this down so that we're not voting on 120 maps when we make our committee 25

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1 vote?

2 CHAIRMAN HALL: Well, you know, the 3 gentleman may want to address that in caucus, before we vote on these maps. But outside of that, you 4 5 know, it's one of those things that I don't know how many we're going to have. I don't want to sit here 6 7 and say, now look, we're not going to consider --8 we're only going to consider 10 maps, so come up with your best 10. I don't want to do that. I want 9 to give members of this body who are elected the 10 opportunity to be heard. 11

You know, on the floor, people can put 12 forth amendments all day, just like, you know, we 13 see them often do  $\widetilde{\ }$  And so we don't want to limit 14 15 that. But what I'll say is, you know, if we get in 16 here as a committee, and we've got a ton of these 17 amendments and proposed maps coming in, at some 18 point -- and the chair -- I will say, I will talk to 19 you about this ahead of time -- at some point, you 20 and I are going to have to get together and say, you 21 know, we're going to have to talk to the folks in 22 our respective caucuses and limit the number of maps 23 and amendments that we're putting forth in this committee, and tell them, save it for the floor. 24 If you want to put it forth on the floor, they're 25

Page 78 certainly welcome to do that. 1 But what I'll commit to is an interactive 2 3 process with you, especially, and really all the members of this committee, that we try to get it 4 5 done in an efficient process. And that may take, you know, you and I putting our heads together and 6 7 figuring out which amendments we should take up on 8 this committee, and which may need to wait for the floor. 9 REPRESENTATIVE REIVES: All right. Well I 10 think those are my questions. Thank you. 11 VICE CHAIR SAINE: Thank you, sir. 12 Next, Representative Harrison. 13 REPRESENTATIVE HARRISON: Thank you, Mr. 14 15 Chair. And Mr. Chair, I apologize for the barrage. 16 17 I think these are really simple questions. If I 18 heard Erika correctly, the public can draw maps on public terminals that are set up, but not in this 19 20 room or in 544; is that accurate? 21 REPRESENTATIVE SAINE: Ms. Churchill. 22 MS. CHURCHILL: Yes, Representative 23 Harrison. That is accurate. The drawing stations 24 in room 544 and 643 are reserved solely for members 25 of the General Assembly.

Page 79 REPRESENTATIVE HARRISON: So as a follow-up 1 2 to that, did I hear that we're only considering maps that are drawn in this room and in 544? And if 3 that's the case, then what are we doing with the 4 5 public's maps? CHAIRMAN HALL: So --6 7 Mr. Chairman, sorry. REPRESENTATIVE SAINE: Go ahead. 8 9 CHAIRMAN HALL: So if a member of the public comes in, and as I've said earlier, just like 10 any other bill, you know, one of your constituents 11 or the member of the public may say, "Look, 12 Representative Harrison, here's what I think you 13 should do, " you're obviously welcome to take a look 14 15 at that. And herein lies sort of the friction 16 between the position that Representative Reives 17 talked about, and what you're saying right now. 18 So if I'm to say, as the chair of this 19 committee, you cannot bring a map in here, period, 20 well, if one of your constituents says, 21 "Representative Harrison, I went to the portal 22 downstairs, I drew this map, and I really think this 23 is a good idea," and you agree with it, if we have 24 that rule in place, you wouldn't be able to bring that map in this room. You wouldn't be able to take 25

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1	into account the and that's literally public
2	input that you wouldn't be able to take into
3	account.
4	So the maps that we take up must be drawn
5	in this committee room. Now, we'll talk about maps
6	that are drawn, you know, downstairs, but with the
7	same data loaded into the computers, and how we'll
8	go about handling that, you know, if a member
9	literally wants to take one of those up. But what I
10	anticipate right now is requiring that it be drawn
11	in this committee room.
12	REPRESENTATIVE HARRISON: I appreciate
13	that, and I just have one question and I think I'm
14	done. I must have missed the congressional map
15	discussion. Have we talked about that? When does
16	it happen?
17	CHAIRMAN HALL: So one thing I do want to
18	clarify. So in this room, we won't be drawing any
19	state Senate maps. Just as, you know, we're not
20	going to let them screw up our state House maps, so
21	they're not going to be able to draw ours. The
22	congressional maps, so I think technically, and
23	staff can correct me if I'm wrong, I think the data
24	is in there right now to be able to draw a
25	congressional map.

Page 81 Is that right, Ms. Churchill, just in 1 2 general --3 Okay. So you could start on a 4 congressional map if you wanted to. That's up to 5 each member of this committee. I know my hope is is 6 that we sort of tackle the state House map first, as 7 a committee. So if you're drawing, just know, the 8 first map that I anticipate taking up as a chair, is going to be the state House map. So you need to 9 10 work on that one first if you want it to be ready to go to put forth whatever your amendment may be. And 11 then after that, at some point, we'll do the 12 congressional map. 13 REPRESENTATIVE HARRISON: If I could follow 14 15 up --16 CHAIR SAINE: You're recognized for a 17 follow-up. 18 REPRESENTATIVE HARRISON: And I'm sorry if 19 you said this -- so when do you think we're going to 20 be done with all these maps, in terms of us enacting 21 them? 22 CHAIRMAN HALL: Yeah. You know, I really 23 don't know when we're going to be done. What I'll 24 say is that I believe we need to be done by the end of this month. We may have a few more days past 25

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that, that the state board of elections can still give us turnaround. But the mindset that I've had is let's get this done by the end of October, that way everyone gets ample time to know what districts are going to look like and the state board of elections can get things done.

But, you know, the problem is, you know, we 7 8 are drawing the whole map for the first time, I guess since 2011. And what we've done, you know, 9 since I've been in this body - I've been through 10 this process a number of times, but it's always 11 typically been with a more limited part of the map 12 that we're required to redraw. So that's one of the 13 issues. And that as, this is so unprecedented, we 14 have never done it this way. This body has never 15 drawn the whole map in complete public view with 16 17 live audio, live video. We don't know how long that 18 process is going to take. But, you know, the goal 19 is to get it done by the end of October. 20 REPRESENTATIVE SAINE: Representative 21 Carney. 22 REPRESENTATIVE CARNEY: Just one last 23 question, and Mr. Chairman, thank you so much for 24 your indulgence. And we're about to beat the Senate

on this committee meeting length of all of us being

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Page 83 able to answer questions, so I appreciate that. 1 2 I'm just hung up on the maps being drawn in 3 this room, and I'm trying not to be. Because on one hand we're stating that the only maps we will 4 5 consider will be the maps that are drawn on these 6 computers, in these rooms. But now I'm hearing that 7 it doesn't preclude someone coming to me, from the 8 public, and giving me information and a map, and then I come in here and transport it into the 9 10 portal. That takes that to the level of there can 11 be maps -- and help me understand if I'm wrong --12 there can be maps drawn outside of this building, 13 from any group, and given to a member, or a group of 14 15 members, and they can come in and put it into the 16 portal. It would be under their name. Is that 17 correct? 18 CHAIRMAN HALL: Well, I guess in a literal sense, you certainly could hear from somebody else, 19 20 and come in here, and draw a map. And there's 21 really nothing we can do about that. It's a first amendment issue. The members of this committee have 22 23 a first amendment right to go talk and hear from 24 their constituents. Their constituents have a first 25 amendment right to talk to their legislatures. Well

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1 even if you're not their legislature. The folks of 2 this country have a right to say what they want to, 3 and if you're walking down the street, they can come 4 up to you and say, "Representative Carney, here's 5 what I think you should do."

It's then up to you, as a member of this 6 7 committee, to handle that in whatever way you see 8 fit. Just like you would a bill. Some individual in your district, or not your district, may write 9 out a bill for you. You're not going to go 10 introduce that, obviously, and us vote on it to go 11 through the bill drafting process. So in some ways, 12 you know, it's very similar. 13

The other thing that I'll say though, I 14 think what may be getting lost in the weeds is, when 15 you actuall sit down to do this, this is a big 16 17 state. There's a bunch of precincts on the 18 congressional maps. You have to get things -- with 19 zero deviation it's going to be very difficult to 20 sit down and memorize an entire map, and come in 21 here and sit down and pinpoint, you know, wherever 22 an outside map was that you saw.

But I think, fundamentally, the issue is going back to the law would allow exactly what you're saying, but even on another level. It would

Page 85 allow you to go hire somebody to draw whatever map 1 2 you felt like was the best map, and bring it in here, and put it before this committee. But we're 3 4 going above and beyond what the law requires, in terms of transparency. We're going to require them 5 to be drawn in here. 6 7 REPRESENTATIVE CARNEY: Thank you. REPRESENTATIVE SAINE: Any other questions 8 for Chairman Hall? Seeing none, I believe the 9 business of the committee is completed today. 10 Is that right, Chairman Hall? 11 CHAIRMAN HALL: That's right, Chairman 12 Saine. And the members, we'll be back in here at 9 13 o'clock in the morning. We'll gave in, and members 14 will be able to draw. And let's see how much we can 15 16 get done tomorrow and perhaps part of Thursday and 17 see if we need to work on Friday. 18 REPRESENTATIVE SAINE: You've heard the 19 gentleman. Come in tomorrow ready to work. With 20 that --21 I'm sorry. Representative Carney. 22 REPRESENTATIVE CARNEY: So that turned into 23 one more question. 24 VICE CHAIR SAINE: You're recognized. 25 REPRESENTATIVE CARNEY: Does that mean that

	Page 86				
1	the full committee, Monday through maybe Friday, if				
2	we have a duration, we are to be present in here				
3	every day that the maps are being drawn?				
4	CHAIRMAN HALL: No. You don't have to				
5	present. That's completely up to you as a committee				
6	member. You can come for all of it or come for none				
7	of it. But it's up to you.				
8	REPRESENTATIVE CARNEY: We have a choice.				
9	Thank you.				
10	VICE CHAIR SAINE: We stand adjourned.				
11	Thank you.				
12	(END OF AUDIO FILE)				
13	OEMOC				
14	CROM'				
15	EVED				
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Page 87 CERTIFICATE OF TRANSCRIPTIONIST I certify that the foregoing is a true and accurate transcript of the digital recording provided to me in this matter. I do further certify that I am neither a relative, nor employee, nor attorney of any of the parties to this action, and that I am not financially interested in the action. REPRESED FROM DEMOGRACYDOCKET.COM Julie Thompson, CET-1036 

## EXHIBIT G

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## Introduction

My name is Christopher A. Cooper. I have been asked to provide a brief analysis of the partisan characteristics of North Carolina's congressional maps, enacted on November 4, 2021, for purposes of Plaintiffs' motion for preliminary relief in *Harper v. Hall*, No. 21 CVS 500085. I am conducting this analysis as a private citizen and am not speaking for my employer, nor am I conducting this work on university time, or using university resources.

I am the Robert Lee Madison Distinguished Professor of Political Science and Public Affairs at Western Carolina University, where I have been a tenured or tenure-track professor since 2002. I hold a PhD and MA in Political Science from the University of Tennessee, Knoxville and a BA in Political Science and Sociology from Winthrop University. My academic research focuses on state politics and policy, elections, and southern politics—with particular application to North Carolina. To date, I have published over 50 academic journal articles and book chapters, co-edited one book, and co-authored one book (both with the University of North Carolina Press). I teach courses on state and local politics, political parties, campaigns, and elections, southern politics, research methods, and election administration. In 2013, I was named the North Carolina Professor of the Year by the Carnegie Foundation for the Advancement of Teaching and I have received Western Carolina University's highest honors in teaching (Board of Governors Teaching Award) and scholarship (University Scholar).

Much of my academic and applied research relates to North Carolina politics and policy and I am a frequent source for news media seeking comments about politics in the Old North State. My quotes have appeared in national and international outlets including the New York Times, Washington Post, Politico, BBC, and the New Yorker, as well as in North Carolina-based outlets including the News and Observer, Charlotte Observer, Asheville Citizen Times, Carolina Journal, Spectrum News, and National Public Radio affiliates in Chapel Hill, Charlotte, and Asheville. I have written over 100 op-eds on North Carolina, southern and national elections and politics, including pieces in the Atlanta Journal Constitution, NBC.com, the News and Observer, Charlotte Observer, and Asheville Citizen Times, and regularly give talks about North Carolina politics, North Carolina elections, and the redistricting process to groups throughout the state. I previously served as an expert witness in *Common Cause v. Lewis*.

I am being compensated at a rate of \$300 per hour.

The bulk of the analysis that follows analyzes the consequences of the choices made district by district. Before proceeding into this analysis, however, a few points of context:

- North Carolina is, by virtually any measure, a "purple state" with healthy two-party competition. The North Carolina Governor is a Democrat, while the US Senators are Republicans. There are more registered Democrats than Republicans in the state, and in the 2020 election, the two-party vote share difference between Trump and Biden was the smallest of any state that Donald Trump won.
- North Carolina does not show as much evidence of "natural clustering" as other states. According to Stanford University political geographer Jonathan Rodden, "Due to the presence of a sprawling knowledge-economy corridor, a series of smaller automobile cities with relative low partisan gradients, and the distribution of rural African Americans, Democrats are relatively efficiently distributed in North Carolina at the scale of congressional districts."<sup>1</sup> In other words, massive partisan disparities in election outcomes in favor of one party or the other cannot be discounted as simply a result of where Democrats and Republicans happen to live.
- Gerrymandering, drawing districts to benefit one party at the expense of the other, is generally accepted as a threat to democracy in North Carolina and across the nation. This statement is true regardless of partisanship. For example, a 2018 Elon Poll found that just 10% of registered voters in North Carolina believe the current redistricting system is "mostly fair." A recent op-ed in the *News and Observer* by Republican Carter Wrenn and Democrat Gary Pearce illustrates bi-partisan agreement on the evils of gerrymandering in clear terms. They explain, "We agree that gerrymandering is a major problem that undermines the foundations of our democracy. We agree that districts shouldn't be drawn to help one political party, no more than college basketball games should be rigged to favor one team."<sup>2</sup> The preference for fair maps is not a partisan one.

<sup>&</sup>lt;sup>1</sup> Rodden, Jonathan, Why Cities Lose (New York: Basic Books, 2019), 173.

<sup>&</sup>lt;sup>2</sup> Gary Pearce and Carter Wrenn. "We're usually on opposite sides of political battles. But we agree on NC voting maps." News and Observer. October 21, 2021.

While the district-by-district analysis is key to understanding the ways in which the map will translate into advantage for one party or the other in any given district, the map is best thought of as a single organism, rather than 14 separate congressional districts---when one district moves in one direction, another district must shift in response. As a result, it is worth pausing and considering some of the general characteristics of the map before moving into a district-by-district analysis.

- North Carolina earned an additional congressional seat because of population growth that
  occurred mostly in urban areas: according to an analysis of U.S. census data by the News and
  Observer, more than 78% of North Carolina's population growth came from the Triangle
  area and the Charlotte metro area.<sup>3</sup> Despite that fact, the number of Democratic seats
  actually *decreases* in the current map, as compared to the last map. The last map produced 5
  Democratic winss and 8 Republican wins; this map is expected to produce 3 Democratic
  wins, 10 Republican wins and 1 competitive seat.
- Democratic strongholds Mecklenburg, Guilford, and Wake Counties are each divided across three districts, despite the fact that there is no population-based reason to divide them this many times. In the previous map, Mecklenburg was divided into two districts, Wake into two districts, and Guilford fell completely in one district. The strategic splits in the enacted map ensure that large numbers of voters will have no chance of being represented by a member of their own party. These splits will also lead to voter confusion and fractured representational linkages. The shaded red-and blue maps that follow this introductory section provide a graphical representation of each of these county splits.
- The map produces geographic convortions that combine counties in ways that, in some circumstances, have never existed before.
- The double-bunking that occurs in the enacted map advantages the Republican Party. A Republican (Virginia Foxx) and a Democrat (Kathy Manning) are both drawn into in an overwhelmingly Republican district, thus virtually guaranteeing that the Democrat (Manning) will lose her seat. There are no cases where two Republican incumbents seeking re-election are double-bunked. The map also produces at least one district with no incumbents, but that district overwhelmingly favors the Republican Party.
- Neutral, third-party observers have been uniform in their negative assessment of the map. For example, The Princeton Gerrymandering Project gives the map an "F" overall, an "F" in partisan fairness and a "C" in competitiveness. Dave's Redistricting App assess the map as "very bad" in proportionality and "bad" in terms of competitiveness. Both of these groups are nonpartisan and have given similar grades to Democratic gerrymanders in other states.

<sup>&</sup>lt;sup>3</sup> David Raynor, Tyler Dukes, and Gavin Off. "From population to diversity, see for yourself how NC changed over 10 years." News and Observer, Oct. 18, 2021, https://www.newsobserver.com/news/local/article253546964.html.

In the text that follows, I refer to the "current" maps as the maps that were used in the 2020 election and the "enacted" maps as the maps that have been approved by the North Carolina General Assembly for use in the 2022 elections. While I conducted all of the analysis that follows and wrote all of the verbiage, the shaded red-and-blue maps were produced by John Holden, a GIS expert, using a composite measure of partisanship that I selected and describe below.

I use three different metrics in the analysis that follows. The first is the Cook Political Report's Partisan Voter Index (PVI), a standard metric of the expected "lean" of a district using a composite of past elections. The second is a metric created for this analysis that combines the results of the Secretary of Labor and Attorney General races, the two closest Council of State races in North Carolina in 2020, into one measure, which I term the Competitive Council of State Composite (CCSC). This measure allows us to use relatively low-profile elections to get a sense of the "true partisanship" of the district. It is presented below as the raw difference in votes and is used in the shaded red-and-blue maps that follow. Finally, I mention the percent of the electorate that voted for Donald Trump in the 2020 election to give yet another sense of the partisan lean of the district. As the table below shows, the metrics all tell a similar story: the enacted map will produce 10 Republican seats, 3 Democratic seats, and one competitive seat. At most, the enacted map could be expected to elect four Democrats to office in 2022—fewer than in the current map and far below Democratic representation statewide, or the results of other recent statewide elections.

District	PVI	CCSC	Trump Perc
1	R+10	R + 98,969	57%
2	Even	D +40,396	48%
3	R+10	R +111,451	58%
4	R+5	R + 28,045	53%
5	D+12	D +227,327	34%
6	D+22	D + 374,786	25%
7	R+11	R + 115,682	57%
8	R+11	R +125,842	57%
9	D+23	D + 325,717	25%
10	R+14	R + 156,833	60%
11	R+9	R + 94,407	57%
12	R+9	R + 102,404	56%
13	R+13	R + 150,187	60%
14	R+7	R + 58,387	53%

Table 1. Summary Data for Each Enacted Congressional District

I begin by showing shaded red-and-blue maps demonstrating the trisection of Wake County, Mecklenburg County, and Guilford County. These maps show county lines in black, VTD lines in gray, and district lines in orange. The red and blue shading represents the relative vote margin using my CCSC composite—the composite of the Secretary of Labor and Attorney General races in North Carolina in 2020—in each VTD, with darker blue shading representing larger Democratic vote margins and darker shades of red indicating larger Republican vote margins (both normalized by acreage).



Map 1. Close-Up of Wake County VTD CCSC estimates across three districts



Map 2. Close-Up of Mecklenburg County VTD CCSC estimates across three districts

Map 3. Close-Up of Guilford County VTD CCSC estimates across three districts



## NC-1

The enacted 1st congressional district is mostly comprised of the current NC-3, but also includes part of the current NC-1. Most potential congressional districts in this part of North Carolina would likely lean towards the Republican Party, but to create extra advantage for the Republican Party in other parts of the map, the current map brings the Democratic-leaning areas of Pitt County into District 1, thus removing them from NC-2 and allowing NC-2 to become much more competitive for the Republican Party.

Despite moving the district line westward to include the Democratic portion of Pitt County, the enacted district remains virtually a guaranteed Republican victory with a PVI of R+10 (the current NC-3 is R+14). No Democratic member of Congress in the country represents a district that leans this far towards the Republican Party.

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Map 4: VTD CCSC estimates for NC-1


The enacted 2nd congressional district includes the core of the current NC-1, along with portions of the current NC-4 and NC-13 districts. The area that largely comprises the new 2nd district is currently represented by Democrat GK Butterfield and is considered a D +12 district by the Cook Political Report, making it a safe Democratic seat. Butterfield has the longest uninterrupted tenure of any member of North Carolina's congressional delegation. Under the enacted map, however, Butterfield's district changes radically, loses many of its Democratic strongholds (including the aforementioned loss of the Democratic areas in Pitt County) and now picks up enough Republican voters to move the district to "even," according to the Cook Political Report. For example, it picks up Caswell County, which does not include a single Democratic-leaning VTD, according to the 2020 Attorney General/Secretary of Labor "CCSC" composite in the map shown below. The 2020 Presidential vote share and composite score reinforce that this is an extremely competitive district. This is an enormous shift for what was formerly a Democratic stronghold.

In addition to producing a clear partisan shift, the district is difficult to understand from a communities of interest perspective. The enacted district no longer includes any of Pitt County nor the campus of East Carolina University, which provided much of the economic engine of the district, and now stretches from the Albemarle Sound to the Raleigh-Durham-Chapel Hill metropolitan area, and eventually terminates in Caswell County, just northeast of Greensboro. Notably, Washington County and Caswell Counties have never been paired together in a congressional map in the history of North Carolina, further illustrating how little these counties have in common.

At a micro-level, the changes will split communities in important ways. For example, the cutout in Wayne County, just west of Goldsboro, NC, splits the students and families in Westwood Elementary School (which is located in NC-2) into two separate districts (NC-2 and NC-4). At one point, NC-2 passes through a narrow cut-off between the Neuse River to Old Smithfield Road that is less than one-third of a mile wide.

After the maps were enacted, G.K. Butterfield announced that he will not seek re-election,<sup>4</sup> making the district even more likely to shift to the Republican Party. If the Republicans take over this seat, it will be the first time that this part of North Carolina has been represented by a Republican since the late 19th Century.

<sup>&</sup>lt;sup>4</sup> Bryan Anderson, "Democrat Rep. Butterfield to Retire, New District is a Toss-Up." Associate Press News. <u>https://apnews.com/article/elections-voting-north-carolina-voting-rights-redistricting-e221c0732f457b2273f54ef102424eca</u>



Map 5. VTD CCSC estimates for NC-2

The enacted third congressional district is mostly carved out of the current 7th congressional district, but also includes portions of the 3rd, and 9th districts. The current 7th district is considered R+11 by the Cook Political Report.

This district once again denies North Carolina's Sandhills a consistent district of their own, despite repeated calls during the redistricting process,<sup>5</sup> and instead places portions of the Sandhills with the coastal enclave in and around Wilmington. The enacted map also creates an odd appendage in Onslow County that, as described in the section on NC-1, makes little sense from a communities of interest perspective.

The enacted district will almost certainly elect a Republican. It is slightly less Republican than the current NC-7 but still is considered R+10 district by the Cook Political Report, favored the Republicans by over 110,000 votes in the 2020 Attorney General/Secretary of Labor "CCSC" composite, and Donald Trump won the district with 58% of the vote. It is currently represented by Republican David Rouzer and is expected to remain in Republican hands.

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<sup>&</sup>lt;sup>5</sup> See, for example, Dreilinger, Danielle, "1 woman, 1 North Carolina address, 5 congressional districts. As North Carolina prepares to add a 14th congressional seat, Sandhills residents asked: why can't it be theirs? *Fayetteville Observer*. Nov 5, 2021.





The enacted 4th congressional district is carved out of a pocket of North Carolina that includes Johnston County and a portion of Harnett County, both of which are adjacent to Wake County, as well as portions of the Sandhills. The district is carved out of leftover portions from districts 7 and 8 which were R+11 and R+6, respectively. It combines the Democratic-leaning area of Fayetteville with those areas to create a Republican-leaning district.

In addition to the carve out of Republican-leaning VTDs in Wayne County referenced above, this district takes a series of confusing jogs in the Northwest part of Harnett County. A citizen driving Southwest on Cokesbury Road would begin in NC-7, then rest on the line between NC-7 and NC-3, then into NC-4, then back on the line between the two, just before Cokesbury turns into Kipling Road whereupon the driver would move back into NC-7.

This district, which has no incumbent, is considered an R+5 district by the Cook Political Report, gave 53% of its vote share to Donald Trump in 2020, and gave an advantage to Republicans of about 28,000 votes in the 2020 Attorney General/Secretary of Labor "CCSC" composite.

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Map 7. VTD CCSC estimates for NC-4

The enacted map cracks Democrats in Wake County into three districts. Unlike NC-6 and NC-7, NC-5 is situated completely within Wake County and is made up of portions of current NC-2 and NC-4, districts that were D+12 and D+16. The effects of this are to pack Democratic voters into one district, thus increasing the probability that Republicans can win at least one of the adjacent districts. The enacted district is rated by the Cook Political Report as D+12, the CCSC shows a Democratic advantage of over 227,000 votes and Donald Trump won just 34% of the vote.

This map clearly splits communities of interest. In one particularly egregious example, a small vein runs up Fayetteville Road by McCuller's Crossroads in Fuquay-Varina, where the vein itself is in NC-7 and the areas on either side of it are in NC-5.

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Map 8. VTD CCSC estimates for NC-5

The 6th district packs all of Orange, Durham counties and part of Wake County together into one overwhelmingly Democratic district, which is created out of portions of the current Districts 4 and 2 (previously D+16 and D+12, respectively). As the map below demonstrates, the district only includes four marginally Republican VTDs, according to the 2020 Attorney General/Secretary of Labor "CCSC" composite. Cook Political Report estimates this to be a D+22 district, Democrats had more than a 374,000 vote advantage in the CCSC and Donald Trump won only 25% of the vote in 2020. This district packs a greater proportion of Democratic voters in a single district than any district from the previous map. This district, like NC-5, includes Wake County, which is divided across three districts in the enacted map. The packing of Democrats in this district enables adjacent districts, in particular NC-7, to be drawn in ways that make it easier for Republican candidates to win.

The contours of this district border with NC-7 on the southern end splits communities of interest in almost comical ways. In one example, a person traveling south on New Hill Olive Chapel Road would, in a matter of a few miles, move from enacted NC-7 to the line between NC-6 and -7, back into NC-7, through NC-6, back into NC-7, back to the border between the two, back into NC-7, back to the border between the two, then back into NC-7. The contours of these lines are confusing to voters, and, as the map demonstrates, serve to pack as many Democratic precincts as possible into NC-6.





The enacted 7th district includes the Republican-leaning Randolph, Alamance, Chatham and Lee Counties as well as portions of Guilford, Wake, and Davidson Counties. It is carved out of districts 13, 6, 4 and 2 from the current map. This district as it is drawn splits both Guilford and Wake Counties (each of which of is divided three times in the map as a whole). Despite including portions of two of the most Democratic counties in North Carolina, the district studiously avoids the Democratic-leaning areas of both counties. The eastern portion of the district in Wake County, near Apex, takes the unusual and confusing contours described in the description of NC-6 above.

The enacted NC-7 is considered R + 11 by the Cook Political Report, it gave Republicans a 115,682 vote advantage in the CCSC, and Donald Trump won 57% of the vote in this district. A Democratic candidate has virtually no chance of victory in the enacted 7th.

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Map 10: VTD CCSC estimates for NC-7

The 8th congressional district stretches from the Sandhills into Mecklenburg County and includes portions of the current 9th, 12th, and 8th districts. The core of the district comes from NC-9, currently R+6. The enacted NC-8 includes the entirety of Scotland, Hoke, Moore, Montgomery, Anson, Union, and Stanley counties as well as the southern and eastern edge of Mecklenburg County. Although it includes portions of Mecklenburg County, one of the most Democratic-leaning areas in the state, as well as Democratic municipalities of Union, Anson, and Hoke, the 8th district is unlikely to elect a Democrat under any reasonable scenario. The enacted map stops just shy of the some of the darkest blue VTDs in Mecklenburg County.

The Cook Political Report calls the enacted NC-8 an R+11 district, the CCSC shows that the Republican candidate garnered over 115,000 more votes than the Democratic candidates for the two closest Council of State races, and Donald Trump won approximately 57% of the vote in the 2020 election.

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Map 11: VTD CCSC estimates for NC-8

The core of the enacted 9th congressional district come from NC-12, but it also includes portions of the current NC-9. The result is the most packed district in the enacted map. The Cook Political Report rates the enacted NC-9 as a D+23 district, meaning that it leans more heavily towards the Democratic Party than any district in the last map. Donald Trump won just 25% of the vote in this district in the 2020 Presidential election and the CCSC indicates that the Democrats won over 325,000 more votes than the Republicans in the two closest Council of State races in 2020.

As with all examples of packing, the key to understanding this district is its effects on the surrounding districts. By ensuing that the Democratic candidate in NC-9 wins by an overwhelming margin, Republican voters will be more efficiently distributed across other districts, where they can affect the outcome. This ensures that neighboring district 8, for example, will not be competitive. This also has the effect of ensuring that Republican voters in NC-9 have no chance of securing representation from a member of their own party.

The geographic contortions of this district are most apparent on its western edge, where a mere 8 miles separates the western edge of district 9 and the Mecklenburg County line.

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Map 12. VTD CCSC estimates for NC-9

The enacted NC-10 includes all of Rowan, Cabarrus and David County and parts of Iredell, Davidson and Guilford Counties. It is drawn out of portions of the current 10th, 9th, 6th, and 13th districts. Despite the inclusion of carefully curated portions of Democratic Guilford County, this district is a safe Republican seat and effectively removes any possibility that Democratic voters in High Point, Salisbury, Kannapolis, Concord, and Cabarrus can elect a member of their own political party. The Cook Political Report rates this district as R+14, the CCSC indicates that Republicans won more than 156,000 additional votes in the two key council of state races, and Donald Trump won over 60% of the Presidential vote in the enacted district.

The enacted NC-10 includes High Point, while NC-11 includes most of Greensboro and NC-12 contains Winston-Salem, meaning that the enacted map splits all three points of North Carolina's Piedmont Triad into separate congressional districts that favor Republicans. In the current map, this community of interest is together in NC-6, represented by Democrat Kathy Manning.

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Map 13: VTD CCSC estimates for NC-10

The enacted 11th congressional district is carved out of the 5th, 10th, and 6th districts. This map places a portion of Guilford County, including the City of Greensboro in a district with Rockingham, Stokes, Surrey, Alleghany, Ashe, Wilkes, Caldwell, and Alexander counties as well as a tiny boot-shaped sliver of Watauga County.

As discussed elsewhere, the enacted map splits Guilford County across three districts (the 10th, 11th, and 7th) and puts all three points of the Piedmont triad in separate districts. By placing most of Greensboro in this overwhelmingly Republican district, this ensures that the City of Greensboro, among the most Democratic and racially diverse cities in the state of North Carolina, will not be represented by a Democrat.

The enacted district is rated by Cook as R+9, 57% of the district voted for Donald Trump in the 2020 election, and Republicans held a 94,000 vote lead in the two closest Council of State elections. No Democrat in the current Congress represents a district that leans this heavily Republican.

It is difficult to imagine any sense in which this district has shared interests. Geographically, it spans radically different parts of the state. Greensboro is firmly in the Piedmont, resting at under 900 feet elevation. Watauga and Ashe counties, by comparison, reside in the high country, with elevations that consistently run above 5500 feet. The corners of the district have different area codes, are served by different media markets, and share virtually no characteristics in common other than the fact that they are both within North Carolina. In the history of North Carolina, Caldwell and Rockingham Counties have never shared a congressional representative.

In addition to its geographic span, the enacted district stands out for its double-bunking of Republican Virginia Foxx and Democrat Kathy Manning. To shoe-horn Virginia Foxx into the new district, the mapmakers carved out a uny sliver of Watauga County to allow her house to fall into the redrawn district. This passage is so narrow, in fact, that is connected by a stretch of land that is roughly 3 miles wide and requires a traverse of the Daniel Boone Scout Trail. Map 14: VTD CCSC estimates for NC-11



The 12th congressional district stretches from Lincoln County at the southwestern corner through Catawba, the Northern part of Iredell, Yadkin, and Forsyth Counties. As the map below makes clear, by including Winston-Salem with this overwhelmingly red swath of geography and walling it off from Democratic voters in High Point, the enacted map ensures that Republican member of Congress Patrick McHenry, who lives at the southeast corner of this district, will maintain his seat and the Democratic voters in Winston-Salem will have virtually no chance to elect a member of their own party.

The Cook Political Report rates this district as R+9, Republicans had over a 100,000 vote margin in the two closest Council of State races, and Donald Trump won over 56% of the vote in this district.

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Map 15: VTD CCSC estimates for NC-12

The 13th congressional district is carved out of portions of the old 11th, 5th, and 12th, and 10th districts. As the map that follows demonstrates, the district includes Polk, Rutherford, McDowell, Burke, Cleveland, Gaston, and part of Mecklenburg County.

The district was generally understood to be created for Republican Speaker of the House Tim Moore who lives in Cleveland County—the *Charlotte Observer*'s editorial board even referred to it as "Moore's designer district."<sup>6</sup> Republican Madison Cawthorn recently announced that he will run in the 13th, and Moore soon noted that he would stay in the General Assembly. While the specifics of the candidates have changed, the fact that this is a Republican district that will elected a Republican candidate has not. This district was rated by the Cook Political Report as R+13, has a CCSC of R+150,187 votes, and gave 60% of its votes to Donald Trump in 2020.

As mentioned in the discussion of NC-9, the narrow passageway that is necessary to squeeze NC-13 into Mecklenburg County only consists of a few miles at one point--stretching from a Food Lion to the Mecklenburg County line. The enacted district also creates unusual pairings of counties that share little in common. For example, Polk and Mecklenburg Counties have never resided in the same district.

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<sup>&</sup>lt;sup>6</sup> https://www.charlotteobserver.com/opinion/article255769626.html



Map 16. VTD CCSC estimates for NC-13

The enacted 14th district includes most of the 11th congressional district and includes part of Watauga County, which previously sat in the 5th congressional district. The former 11th congressional district also lost the Republican strongholds of Polk and McDowell counties, as well as part of Rutherford County. These changes shifted the district slightly in the Democratic direction (from a PVI of R+9 to R+7), although not enough to give a Democratic candidate a reasonable chance of victory. No Democrat in Congress represents a district that has a PVI score that leans this heavily towards the Republican Party. As a result, the 14th is expected to stay squarely in Republican hands.

Geographically, the 14th is a sprawling district that includes three media markets. Traversing the district from its western end in Murphy to its northeastern corner in Stony Fork would take approximately four hours. Perhaps because of the geographic incompatibility, Watauga has not been in a district with the western end of the state since 1871—before Graham and Swain Counties were even in existence. Adequately representing this massive swath of geography would be difficult for any member of Congress—Republican or Democrat.

...publican or Democrat.

Map 17. VTD CCSC estimates for NC-14



#### Conclusion

After analyzing the characteristics of the map as a whole as well as the characteristics of each district in isolation, it is clear that the enacted map will increase the number of Republican members of Congress and decrease the number of Democratic members of Congress in North Carolina's congressional delegation. Democratic voters in the vast majority of the districts will have no chance at representation from a member of their own party and Republican voters in the districts that pack Democrats will have no chance of representation from a member of their own party. This is not a result of natural packing, or geographic clustering, but rather because the congressional district lines shifted in ways that, taken together, benefit the Republican Party. Not only does the enacted map create a substantial partisan advantage for which there is no apparent explanation other than gerrymandering, but it unnecessarily splits communities of interest and will alters representational linkages in ways that, in some cases, have never been seen in North Carolina's history.

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Christopher A. Cooper

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# EXHIBIT H

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# STATE OF NORTH CAROLINA

# IN THE GENERAL COURT OF JUSTICE

#### **COUNTY OF WAKE**

# SUPERIOR COURT DIVISION

No.21 CVS 500085



CAROLINA STATE BOARD OF ELECTIONS; STELLA ANDERSON, IN HER OFFICIAL CAPACITY AS SECRETARY OF THE NORTH CAROLINA STATE BOARD OF ELECTIONS; JEFF CARMON III, IN HIS OFFICIAL CAPACITY AS MEMBER OF THE NORTH CAROLINA STATE BOARD OF ELECTIONS; STACY EGGERS IV, IN HIS OFFICIAL CAPACITY AS MEMBER OF THE NORTH CAROLINA STATE BOARD OF ELECTIONS; TOMMY TUCKER, IN HIS OFFICIAL CAPACITY AS MEMBER OF THE NORTH CAROLINA STATE **BOARD OF ELECTIONS**,

Defendants.

I, Dr. Jowei Chen, upon my oath, declare and say as follows:

1. I am over the age of eighteen (18) and competent to testify as to the matters set forth herein.

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2. I am an Associate Professor in the Department of Political Science at the University of Michigan, Ann Arbor. I am also a Research Associate Professor at the Center for Political Studies of the Institute for Social Research at the University of Michigan and a Research Associate at the Spatial Social Science Laboratory at Stanford University. In 2007, I received a M.S. in Statistics from Stanford University, and in 2009, I received a Ph.D. in Political Science from Stanford University.

3. I have published academic papers on legislative districting and political geography in several political science journals, including The American Journal of Political Science and The American Political Science Review, and Election Law Journal. My academic areas of expertise include legislative elections, spatial statistics, geographic information systems

(GIS) data, redistricting, racial politics, legislatures, and political geography. I have expertise in the use of computer simulations of legislative districting and in analyzing political geography, elections, and redistricting.

4. I have authored expert reports in the following redistricting court cases: The League of Women Voters of Florida v. Detzner (Fla. 2d Judicial Cir. Leon Cnty. 2012); Romo v. Detzner (Fla. 2d Judicial Cir. Leon Cnty. 2013); Missouri National Association for the Advancement of Colored People v. Ferguson-Florissant School District & St. Louis County Board of Election Commissioners (E.D. Mo. 2014); Raleigh Wake Citizens Association v. Wake County Board of Elections (E.D.N.C. 2015); Brown v. Detzner (N.D. Fla. 2015); City of Greensboro v. Guilford County Board of Elections (M.D.N.C.2015); Common Cause v. Rucho (M.D.N.C 2016); The League of Women Voters of Pennsylvania v. Commonwealth of Pennsylvania (No. 261 M.D. 2017); Georgia State Conference of the NAACP v. The State of Georgia (N.D. Ga. 2017); The League of Women Voters of Michigan v. Johnson (E.D. Mich. 2017); Whitford v. Gill (W.D. Wis. 2018); Common Cause v. Lewis (N.C. Super. 2018); Harper v. Lewis (N.C. Super. 2019); Baroody v. City of Quincy, Florida (N.D. Fla. 2020); McConchie v. Illinois State Board of Elections (N.D. Ill. 2021). I have testified either at deposition or at trial in the following cases: Romo v. Detzner (Fla. 2d Judicial Cir. Leon Cnty. 2013); Missouri National Association for the Advancement of Colored People v. Ferguson-Florissant School District & St. Louis County Board of Election Commissioners (E.D. Mo. 2014); Raleigh Wake Citizens Association v. Wake County Board of Elections (E.D.N.C. 2015); City of Greensboro v. Guilford County Board of Elections (M.D.N.C. 2015); Common Cause v. Rucho (M.D.N.C. 2016); The League of Women Voters of Pennsylvania v. Commonwealth of Pennsylvania (No. 261 M.D. 2017); Georgia State Conference of the NAACP v. The State of Georgia (N.D. Ga. 2017); The

League of Women Voters of Michigan v. Johnson (E.D. Mich. 2017); Whitford v. Gill (W.D. Wis. 2018); Common Cause v. Lewis (N.C. Super. 2018); Baroody v. City of Quincy, Florida (N.D. Fla. 2020).

5. I have been retained by Plaintiffs in the above-captioned matter. I am being compensated \$550 per hour for my work in this case.

6. Plaintiffs' counsel asked me to analyze the SB 740 districting plan for North Carolina's congressional districts (the "Enacted Plan"), as passed on November 4, 2021. Plaintiffs' counsel asked me to produce a set of computer-simulated plans for North Carolina's congressional districts by following the criteria adopted by the North Carolina General Assembly's Joint Redistricting Committee on August 12, 2021 (the "Adopted Criteria"). Plaintiffs' counsel asked me to compare the district-level partisan attributes of the Enacted Plan to those of the computer-simulated plans and to identify any districts in the Enacted Plan that are partisan outliers. Plaintiffs' counsel also asked me to compare the partisan composition of the individual Plaintiffs' congressional districts under the Enacted Plan to the partisan composition of Plaintiffs' districts under the computer-simulated plans and to identify any Plaintiffs whose Enacted Plan districts are partisan outliers.

7. The Use of Computer-Simulated Districting Plans: In conducting my academic research on legislative districting, partisan and racial gerrymandering, and electoral bias, I have developed various computer simulation programming techniques that allow me to produce a large number of nonpartisan districting plans that adhere to traditional districting criteria using US Census geographies as building blocks. This simulation process ignores all partisan and racial considerations when drawing districts. Instead, the computer simulations are programmed to draw districting plans following various traditional districting goals, such as equalizing

population, avoiding county and Voting Tabulation District (VTD) splits, and pursuing geographic compactness. By randomly generating a large number of districting plans that closely adhere to these traditional districting criteria, I am able to assess an enacted plan drawn by a state legislature and determine whether partisan goals motivated the legislature to deviate from these traditional districting criteria. More specifically, by holding constant the application of nonpartisan, traditional districting criteria through the simulations, I am able to determine whether the enacted plan could have been the product of something other than partisan considerations. With respect to North Carolina's 2021 Congressional Enacted Plan, I determined that it could not.

8. I produced a set of 1,000 valid computer-simulated plans for North Carolina's congressional districts using a computer algorithm programmed to strictly follow the required districting criteria enumerated in the August 12, 2021 Adopted Criteria of the General Assembly's Joint Redistricting Committee. In following these Adopted Criteria, the computer algorithm uses the same general approach that I employed in creating the simulated state House and state Senate plans that I analyzed in *Common Cause v. Lewis* (2019) and the simulated congressional plans that I used in *Harper v. Lewis* (2019).

9. By randomly drawing districting plans with a process designed to strictly follow nonpartisan districting criteria, the computer simulation process gives us an indication of the range of districting plans that plausibly and likely emerge when map-drawers are not motivated primarily by partisan goals. By comparing the Enacted Plan against the distribution of simulated plans with respect to partisan measurements, I am able to determine the extent to which a mapdrawer's subordination of nonpartisan districting criteria, such as geographic compactness and preserving precinct boundaries, was motivated by partisan goals. 10. These computer simulation methods are widely used by academic scholars to analyze districting maps. For over a decade, political scientists have used such computer-simulated districting techniques to analyze the racial and partisan intent of legislative map-drawers.<sup>1</sup> In recent years, several courts have also relied upon computer simulations to assess partisan bias in enacted districting plans.<sup>2</sup>

11. *Redistricting Criteria:* I programmed the computer algorithm to create 1,000 independent simulated plans adhering to the following the seven districting criteria, as specified in the Adopted Criteria:

- a) <u>Population Equality:</u> Because North Carolina's 2020 Census population was 10,439,388, districts in every 14-member congressional plan have an ideal population of 745,670.6. Accordingly, the computer simulation algorithm populated each districting plan such that precisely six districts have a population of 745,670, while the remaining eight districts have a population of 745,671.
- b) <u>Contiguity</u>: The simulation algorithm required districts to be geographically contiguous. Water contiguity is permissible. I also programmed the simulation algorithm to avoid double-traversals within a single county. In other words, for every simulated district, the portion of that district within any given county will be geographically contiguous.

<sup>&</sup>lt;sup>1</sup> E.g., Carmen Cirincione, Thomas A. Darling, Timothy G. O'Rourke. "Assessing South Carolina's 1990s Congressional Districting," Political Geography 19 (2000) 189–211; Jowei Chen, "The Impact of Political Geography on Wisconsin Redistricting: An Analysis of Wisconsin's Act 43 Assembly Districting Plan." Election Law Journal

<sup>&</sup>lt;sup>2</sup> See, e.g., League of Women Voters of Pa. v. Commonwealth, 178 A. 3d 737, 818-21 (Pa. 2018); Raleigh Wake Citizens Association v. Wake County Board of Elections, 827 F.3d 333, 344-45 (4th Cir. 2016); City of Greensboro v. Guilford County Board of Elections, No. 1:15-CV-599, 2017 WL 1229736 (M.D.N.C. Apr 3, 2017); Common Cause v. Rucho, No. 1:16-CV-1164 (M.D.N.C. Jan 11, 2018); The League of Women Voters of Michigan v. Johnson (E.D. Mich. 2017); Common Cause v. David Lewis (N.C. Super. 2018).

- c) Minimizing County Splits: The simulation algorithm avoided splitting any of North Carolina's 100 counties, except when doing so is necessary to avoid violating one of the aforementioned criteria. When a county is divided into two districts, the county is considered to have one split. A county divided into three districts is considered to have two splits. A county divided into four districts is considered to have three splits, and so on. For the purpose of creating equally populated districts, each newly drawn congressional district requires only one county split. But the fourteenth and final district drawn in North Carolina does need not create an additional county split, since this final district should simply be the remaining area unassigned to the first thirteen districts. Therefore, an entire plan of 14 congressional districts requires only 13 county splits. Accordingly, I require that every simulated plan contain only 13 county splits. The 2021 Adopted Criteria do not prohibit splitting a county more than once, so I allow some of these 13 county splits to occur within the same county. As a result, the total number of counties containing one or more splits may be fewer than 13.
- d) <u>Minimizing VTD Splits</u>: North Carolina is divided into 2,666 VTDs. The computer simulation algorithm attempted to keep these VTDs intact and not split them into multiple districts, except when doing so is necessary for creating equally populated districts. For the purpose of creating equally populated districts, each newly drawn congressional district requires one VTD split. But the fourteenth and final district drawn in North Carolina does need not create an additional VTD split, since this final district should simply be the remaining area unassigned to the first thirteen districts. Therefore, an entire plan of 14

congressional districts requires only 13 VTD splits. I therefore require that every simulated plan split only 13 VTDs in total.

- e) <u>Geographic Compactness</u>: The simulation algorithm prioritized the drawing of geographically compact districts whenever doing so does not violate any of the aforementioned criteria.
- f) <u>Avoiding Incumbent Pairings:</u> North Carolina's current congressional delegation includes two incumbents, Representatives Ted Budd and David Price, who announced before the Enacted Plan was adopted that they will not run for reelection in 2022. For the remaining eleven congressional incumbents, the simulation algorithm intentionally avoids pairing multiple incumbents in the same district. Hence, in every computer-simulated plan, each district contains no more than one incumbent's residence.
- g) <u>Municipal Boundaries</u>: The simulation algorithm generally favors not splitting municipalities, but this consideration is given lower priority than all of the aforementioned criveria. For example, the algorithm would not intentionally split a VTD in order to preserve a municipality, as the Adopted Criteria clearly prioritizes VTD preservation over municipal boundaries.

12. On the following page of this report, Map 1 displays an example of one of the computer-simulated plans produced by the computer algorithm. The lower half of this Map also reports the population of each district, the compactness scores for each district, and the county splits and VTD splits created by the plan. As with every simulated plan, this plan contains exactly 13 VTD splits and 13 county splits, with 11 counties split into two or more districts.
Example of a Computer-Simulated Congressional Plan Protecting all 11 Incumbents Map 1:



## The Enacted Plan's Compliance with the Adopted Criteria:

13. Although all seven of the criteria listed above are part of the General Assembly's Adopted Criteria, five of these criteria are ones that the Joint Redistricting Committee "shall" or "should" follow in the process of drawing its Congressional districting plan. These five mandated criteria are: equal population; contiguity, minimizing county splits, minimizing VTD splits, and geographic compactness.<sup>3</sup>

14. I assessed whether the 2021 Enacted Plan complies with these five mandated criteria, and I describe my findings in this section. I found that the Enacted Plan does not violate the equal population requirement, nor do any of its districts violate contiguity.

15. However, by comparing the Enacted Plan to the 1,000 computer-simulated plans, I found that the Enacted Plan fails to minimize county splits, fails to minimize VTD splits, and is significantly less geographically compact than is reasonably possible. I describe these findings below in detail.

16. *Minimizing County Splits:* In comparing the total number of county splits in the Enacted Plan and in the computer simulated plans, I counted the total number of times a county is split into more than one district. Specifically, a county fully contained within a single district counts as zero splits. A county split into two full or partial districts counts as one split. And a county split into three full or partial districts counts as two splits. And so on.

17. Using this standard method of accounting for total county splits, I found that the Enacted Plan contains 14 total county splits, which are detailed in Table 1. These 14 total county splits are spread across 11 counties. Eight of these 11 counties are split only once, but Guilford,

<sup>&</sup>lt;sup>3</sup> In listing these five mandated criteria, I am not including the Adopted Criteria's prohibitions on the use of racial data, partisan considerations, and election results data. I did not assess whether the Enacted Plan complies with the prohibition on racial considerations.

Mecklenburg, and Wake Counties are each split into three districts, thus accounting for two splits each. Thus, the Enacted Plan has 14 total county splits, as listed in Table 1.

	County:	Congressional Districts:	Total County Splits:
1	Davidson	7 and 10	1
2	Guilford	7, 10, and 11	2
3	Harnett	4 and 7	1
4	Iredell	10 and 12	1
5	Mecklenburg	8, 9, and 13	
6	Onslow	1 and 3	
7	Pitt	1 and 2	1
8	Robeson	3 and 8	1
9	Wake	5, 6, and 7	2
10	Watauga	11 and 14	1
11	Wayne	2 and 4	1
Total County Splits:		MDEM	14
alf VED FRC			

Table 1: Total Number of County Splits in the 2021 Enacted Plan

18. As explained in the previous section, a congressional plan in North Carolina needs to contain only 13 county splits if the map-drawer is attempting to minimize the splitting of counties. The Enacted Plan's 14 county splits is therefore one more split than is necessary. This "extra" split is specifically found at the border between District 7 and District 10. In general, the border between any two congressional districts in North Carolina needs to split only one county, at most. But in the Enacted Plan, the border between Districts 7 and 10 creates two county splits: One split of Davidson County and one split of Guilford County. Creating two county splits of Davidson and Guilford Counties was not necessary for equalizing district populations. Nor was it necessary for protecting incumbents, as no incumbents reside in the portions of Davidson and Guilford Counties within District 7 and District 10. Hence, the "extra" county split in Davidson and Guilford Counties does not appear to be consistent with the 2021 Adopted Criteria, which mandate that "Division of counties in the 2021 Congressional plan shall only be made for reasons of equalizing population and consideration of double bunking."

19. Indeed, I found that the computer simulation algorithm was always able to draw districts complying with the Adopted Criteria without using an "extra" 14th county split. As the upper half of Figure 1 illustrates, all 1,000 computer-simulated plans contain exactly 13 county splits. The Enacted Plan clearly contains more county splits than one would expect from a map-drawing process complying with the Adopted Criteria. Therefore, I conclude that the Enacted Plan does not comply with the Adopted Criteria's rule against unnecessary division of counties.

20. The Adopted Criteria do not explicitly limit the number of county splits within any single county. Nevertheless, it is notable that under the Enacted Plan, three different counties (Guilford, Mecklenburg, and Wake) are split multiple times. These three counties are each split into three districts under the Enacted Plan. This is an outcome that rarely occurs under the computer-simulated plans. As the lower half of Figure 1 illustrates, only 2.5% of the computersimulated plans similarly split three or more counties multiple times. Thus, it is clear that the Enacted Plan's level of concentrating multiple county splits within a single county is an outcome that generally does not occur in a vast majority of the simulated plans drawn according to the Adopted Criteria.

Figure 1: Comparison of Total County Splits in Enacted SB 740 Plan and 1,000 Computer–Simulated Plans



Number of Counties Split into Three or More Districts Within in Each Congressional Plan

21. **Minimizing VTD Splits:** The Adopted Criteria mandates that "Voting districts ("VTDs") should be split only when necessary." As explained earlier in this report, each newly drawn congressional district needs to create only one VTD split for the purpose of equalizing the district's population. But the fourteenth and final district drawn in North Carolina does need not create an additional VTD split, since this final district should simply be the remaining area unassigned to the first thirteen districts. Therefore, an entire plan of 14 congressional districts needs to create only 13 VTD splits.

22. However, the Enacted Plan creates far more VTD splits than is necessary. As the General Assembly's "StatPack" Report<sup>4</sup> for the Enacted SB 740 Plan details, the Enacted plan splits 24 VTDs into multiple districts. Among these 24 split VTDs, 23 VTDs are split into two districts, while one VTD (Wake County VTD 18-02) is split into three districts. Thus, using the same method of accounting for splits described earlier, the Enacted Plan contains 25 total VTD splits, and 24 VTDs are split into two or more districts.

23. The Enacted Plan's 25 total VTD splits is far more than is necessary to comply with the Adopted Criteria' equal population requirement. As explained earlier, only 13 VTD splits are necessary in order to produce an equally-populated congressional plan in North Carolina. Thus, as Figure 2 illustrates, every one of the 1,000 computer-simulated plans contains exactly 13 VTD splits, and the Enacted Plan's 25 total VTD splits is clearly not consistent with the Adopted Criteria's requirement that "Voting districts ('VTDs') should be split only when necessary."

<sup>&</sup>lt;sup>4</sup> Available at:

https://webservices.ncleg.gov/ViewBillDocument/2021/53447/0/SL%202021-174%20-%20StatPack%20Report.

#### Figure 2:





24. *Measuring Geographic Compactness*: The August 12, 2021 Adopted Criteria mandates that the Joint Redistricting Committee "shall" attempt to draw geographically compact congressional districts. The Adopted Criteria also specify two commonly used measures of district compactness: the Reock score and the Polsby-Popper score.

25. In evaluating whether the Enacted Plan follows the compactness requirement of the Adopted Criteria, it is useful to compare the compactness of the Enacted Plan and the 1,000 computer-simulated plans. The computer-simulated plans were produced by a computer algorithm adhering strictly to the traditional districting criteria mandated by the Adopted Criteria and ignoring any partisan or racial considerations. Thus, the compactness scores of these computer-simulated plans illustrate the statistical range of compactness scores that could be

reasonably expected to emerge from a districting process that solely seeks to follow the Adopted Criteria while ignoring partisan and racial considerations. I therefore compare the compactness of the simulated plans and the Enacted Plan using the two measures of compactness specified by the 2021 Adopted Criteria.

26. First, I calculate the average Polsby-Popper score of each plan's districts. The Polsby-Popper score for each individual district is calculated as the ratio of the district's area to the area of a hypothetical circle whose circumference is identical to the length of the district's perimeter; thus, higher Polsby-Popper scores indicate greater district compactness. The 2021 Enacted Plan has an average Polsby-Popper score of 0.3026 across its 14 congressional districts. As illustrated in Figure 3, every single one of the 1,000 computer-simulated House plans in this report exhibits a higher Polsby-Popper score than the Enacted Plan. In fact, the middle 50% of these 1,000 computer-simulated plans have an average Polsby-Popper score ranging from 0.36 to 0.39, and the most compact computer-simulated plan has a Polsby-Popper score of 0.43. Hence, it is clear that the Enacted Plan is significantly less compact, as measured by its Polsby-Popper score, than what could reasonably have been expected from a districting process adhering to the Adopted Criteria.

27. Second, I calculate the average Reock score of the districts within each plan. The Reock score for each individual district is calculated as the ratio of the district's area to the area of the smallest bounding circle that can be drawn to completely contain the district; thus, higher Reock score indicate more geographically compact districts. The 2021 Enacted Plan has an average Reock score of 0.4165 across its 14 congressional districts. As illustrated in Figure 3, 97.7% of the 1,000 computer-simulated plans exhibit a higher Reock score than the Enacted Plan. In fact, the middle 50% of these 1,000 computer-simulated plans have an average Reock

score ranging from 0.44 to 0.47, and the most compact computer-simulated plan has an average Reock score of 0.52. Hence, it is clear that the Enacted Plan is significantly less compact, as measured by its Reock score, than what could reasonably have been expected from a districting process adhering to the Adopted Criteria.

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Reock Score Indicates Greater Geographic Compactness (Higher Score Indicates Greater Geographic Compactness

#### Measuring the Partisanship of Districting Plans

28. In general, I use actual election results from recent, statewide election races in North Carolina to assess the partisan performance of the Enacted Plan and the computersimulated plans analyzed in this report. Overlaying these past election results onto a districting plan enables me to calculate the Republican (or Democratic) share of the votes cast from within each district in the Enacted Plan and in each simulated plan. I am also able to count the total number of Republican and Democratic-leaning districts within each simulated plan and within the Enacted Plan. All of these calculations thus allow me to directly compare the partisanship of the Enacted Plan and the simulated plans. These partisan comparisons allow me to determine whether or not the partisanship of individual districts and the partisan distribution of seats in the Enacted Plan could reasonably have arisen from a districting process adhering to the Adopted Criteria and its explicit prohibition on partisan considerations. Past voting history in federal and statewide elections is a strong predictor of future voting history. Mapmakers thus can and do use past voting history to identify the class of voters, at a precinct-by-precinct level, who are likely to vote for Republican or Democratic congressional candidates.

29. In the 2011, 2016, and 2017 rounds of state legislative and congressional redistricting last decade, the North Carolina General Assembly publicly disclosed that it was relying solely on recent statewide elections in measuring the partisanship of the districting plans being created. I therefore follow the General Assembly's past practice from last decade by using results from a similar set of recent statewide elections in order to measure the partisanship of districts in the Enacted Plan and in the computer-simulated plans.

30. *The 2016-2020 Statewide Election Composite:* During the General Assembly's
2017 legislative redistricting process, Representative David Lewis announced at the Joint

Redistricting Committee's August 10, 2017 meeting that the General Assembly would measure the partisanship of legislative districts using the results from some of the most recent elections held in North Carolina for the following five offices: US President, US Senator, Governor, Lieutenant Governor, and Attorney General.

31. To measure the partisanship of all districts in the computer-simulated plans and the 2021 Enacted Plan, I used the two most-recent election contests held in North Carolina for these same five offices during 2016-2020. In other words, I used the results of the following ten elections: 2016 US President, 2016 US Senator, 2016 Governor, 2016 Lieutenant Governor, 2016 Attorney General, 2020 US President, 2020 US Senator, 2020 Governor, 2020 Lieutenant Governor, and 2020 Attorney General. I use these election results because these are the same state and federal offices whose election results were used by the General Assembly during its 2017 legislative redistricting process, and the 2017 redistricting process was the most recent one in which the leadership of the General Assembly's redistricting committees publicly announced how the General Assembly would evaluate the partisanship of its own districting plans.

32. I obtained precinct level results for these ten elections, and I disaggregated these election results down to the census block level. I then aggregated these block-level election results to the district level within each computer-simulated plan and the Enacted Plan, and I calculated the number of districts within each plan that cast more votes for Republican than Democratic candidates. I use these calculations to measure the partisan performance of each simulated plan analyzed in this report and of the Enacted Plan. In other words, I look at the census blocks that would comprise a particular district in a given simulation and, using the actual election results from those census blocks, I calculate whether voters in that simulated district collectively cast more votes for Republican or Democratic candidates in the 2016-2020 statewide

election contests. I performed such calculations for each district under each simulated plan to measure the number of districts Democrats or Republicans would win under that particular simulated districting map.

33. I refer to the aggregated election results from these ten statewide elections as the "2016-2020 Statewide Election Composite." For the Enacted Plan districts and for all districts in each of the 1,000 computer-simulated plans, I calculate the percentage of total two-party votes across these ten elections that were cast in favor of Republican candidates in order to measure the average Republican vote share of the district. In the following section, I present district-level comparisons of the Enacted Plan and simulated plan districts in order to identify whether any individual districts in the Enacted Plan are partisan outliers. I also present plan-wide comparisons of the Enacted Plan and the simulated plans in order to identify the extent to which the Enacted Plan is a statistical outlier in terms of common measures of districting plan partisanship.

## District-Level and Plan-Wide Partisan Comparisons of the Enacted Plan and Simulated Plans

34. In this section, I present partisan comparisons of the Enacted Plan to the computer-simulated plans at both a district-by-district level as well as a plan-wide level using several common measures of districting plan partisanship. First, I compare the district-level Republican vote share of the Enacted Plan's districts and the districts in the computer-simulated plans. Next, I compare the number of Republican-favoring districts in the Enacted Plan and in the computer-simulated plans. Finally, I use several common measures of partisan bias to compare the Enacted Plan to the computer-simulated plans. Overall, I find that the several individual districts in the Enacted Plan are statistical outliers, exhibiting extreme partisan characteristics that are rarely or never observed in the computer-simulated plan districts drawn with strict adherence to the Adopted Criteria. Moreover, P find that at the plan-wide level, the Enacted Plan creates a degree of partisan bias favoring Republicans that is more extreme than the vast majority of the computer-simulated plans. I describe these findings in detail below:

35. *Partisan Outlier Districts in the Enacted Plan*: In Figure 4, I directly compare the partisan distribution of districts in the Enacted Plan to the partisan distribution of districts in the 1,000 computer-simulated plans. I first order the Enacted Plan's districts from the most to the least-Republican district, as measured by Republican vote share using the 2016-2020 Statewide Election Composite. The most-Republican district appears on the top row, and the least-Republican district appears on the bottom row of Figure 4. Next, I analyze each of the 1,000 computer-simulated plans and similarly order each simulated plan's districts from the most- to the least-Republican district. I then directly compare the most-Republican Enacted Plan district (CD-10) to the most-Republican simulated district from each of the 1,000 computer-simulated plans. In other words, I compare one district from the Enacted Plan to 1,000 computer-simulated

districts, and I compare these districts based on their Republican vote share. I then directly compare the second-most-Republican district in the Enacted Plan to the second-most-Republican district from each of the 1,000 simulated plans. I conduct the same comparison for each district in the Enacted Plan, comparing the Enacted Plan district to its computer-simulated counterparts from each of the 1,000 simulated plans.

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Percent of Simulated Districts with a Lower/Higher Republican Vote Share Than Each Enacted Plan District

(50.8% Statewide Republican 2-Party Vote Share)

36. Thus, the top row of Figure 4 directly compares the partisanship of the most-Republican Enacted Plan district (CD-10) to the partisanship of the most-Republican district from each of the 1,000 simulated plans. The two percentages (in parentheses) in the right margin of this Figure report the percentage of these 1,000 simulated districts that are less Republican than, and more Republican than, the Enacted plan district. Similarly, the second row of this Figure compares the second-most-Republican district from each plan, the third row compares the third-most-Republican district from each plan, and so on. In each row of this Figure, the Enacted Plan's district is depicted with a red star and labeled in red with its district number; meanwhile, the 1,000 computer-simulated districts are depicted with 1,000 gray circles on each row.

37. As the bottom row of Figure 4 illustrates, the most-Democratic district in the Enacted Plan (CD-9) is more heavily Democratic than 100% of the most-Democratic districts in each of the 1,000 computer-simulated plans. This calculation is numerically reported in the right margin of the Figure. Every single one of the computer-simulated counterpart districts would have been more politically moderate than CD-9 in terms of partisanship: CD-9 exhibits a Republican vote share of 27.2%, while all 1,000 of the most-Democratic districts in the computer-simulated plans would have exhibited a higher Republican vote share and would therefore have been more politically moderate. It is thus clear that CD-9 packs together Democratic voters to a more extreme extent than the most-Democratic district in 100% of the computer-simulated plans. I therefore identify CD-9 as an extreme partisan outlier when compared to its 1,000 computer-simulated counterparts, using a standard threshold test of 95% for statistical significance.

38. The next-to-bottom row of Figure 4 reveals a similar finding regarding CD-6 in the Enacted Plan. This row illustrates that the second-most-Democratic district in the Enacted

Plan (CD-6) is more heavily Democratic than 100% of the second-most-Democratic districts in each of the 1,000 computer-simulated plans. Every single one of its computer-simulated counterpart districts would have been more politically moderate than CD-6 in terms of partisanship: CD-6 exhibits a Republican vote share of 27.5%, while 100% of the second-most-Democratic districts in the computer-simulated plans would have exhibited a higher Republican vote share and would therefore have been more politically moderate. In other words, CD-6 packs together Democratic voters to a more extreme extent than the second-most-Democratic district in 100% of the computer-simulated plans. I therefore identify CD-6 as an extreme partisan outlier when compared to its 1,000 computer-simulated counterparts, using a standard threshold test of 95% for statistical significance.

39. Meanwhile, the top two rows of Figure 4 reveal a similar finding: As the top row illustrates, the most-Republican district in the Enacted Plan (CD-10) is less heavily Republican than 100% of the most-Republican districts in each of the 1,000 computer-simulated plans. A similar pattern appears in the second-to top row of Figure 4, which illustrates that the second-most-Republican district in the Enacted Plan (CD-13) is less heavily Republican than 98.7% of the second-most-Republican districts in each of the 1,000 computer-simulated plans.

40. It is especially notable that these four aforementioned Enacted Plan districts – the two most Republican districts (CD-10 and CD-13) and the two most Democratic districts (CD-9 and CD-6) in the Enacted Plan – were drawn to include more Democratic voters than virtually all of their counterpart districts in the 1,000 computer-simulated plans. These "extra" Democratic voters in the four most partisan-extreme districts in the Enacted Plan had to come from the remaining ten more moderate districts in the Enacted Plan. Having fewer Democratic voters in these more moderate districts enhances Republican candidate performance in these districts.

41. Indeed, the middle six rows in Figure 4 (i.e., rows 5 through 10) confirm this precise effect. The middle six rows in Figure 4 compare the partisanship of districts in the fifth, sixth, seventh, eighth, ninth, and tenth-most Republican districts within the Enacted Plan and the 1,000 computer-simulated plans. In all six of these rows, the Enacted Plan district is a partisan outlier. In each of these six rows, the Enacted Plan's district is more heavily Republican than over 95% of its counterpart districts in the 1,000 computer-simulated plans. Four of these six rows illustrate Enacted Plan districts that are more heavily Republican than 100% of their counterpart districts in the computer-simulated plans. The six Enacted Plan districts in these six middle rows (CD-1, 3, 4, 11, 12, and 14) are more heavily Republican than nearly all of their counterpart computer-simulated plan districts because the four most partisan-extreme districts in the Enacted Plan (CD-6, 9, 10, and 13) are more heavily Democratic than nearly all of their counterpart districts in the computer-simulated plans.

42. I therefore identify the six Enacted Plan districts in the six middle rows (CD-1, 3, 4, 11, 12, and 14) of Figure 4 as partisan statistical outliers. Each of these six districts has a Republican vote share that is higher than over 95% of the computer-simulated districts in its respective row in Figure 4. I also identify the four Enacted Plan districts in the top rows and the bottom two rows (CD-6, 9, 10, and 13) of Figure 4 as partisan statistical outliers. Each of these four districts has a Republican vote share that is lower than over 98% of the computer-simulated districts in its respective row in Figure 4.

43. In summary, Figure 4 illustrates that 10 of the 14 districts in the Enacted Plan are partisan outliers: Six districts (CD-1, 3, 4, 11, 12, and 14) in the Enacted Plan are more heavily Republican than over 95% of their counterpart computer-simulated plan districts, while four

districts (CD-6, 9, 10, and 13) are more heavily Democratic than over 98% of their counterpart districts in the computer-simulated plans.

44. The Appendix of this report contains ten additional Figures (Figures A1 through A10) that each contain a similar analysis of the Enacted Plan districts and the computersimulated plan districts. Each of these ten Figures in the Appendix measures the partisanship of districts using one of the individual ten elections included in the 2016-2020 Statewide Election Composite. These ten Figures generally demonstrate that the same extreme partisan outlier patterns observed in Figure 4 are also present when district partisanship is measured using any one of the ten statewide elections held in North Carolina during 2016-2020.

45. "*Mid-Range*" *Republican Districts:* Collectively, the upper ten rows in Figure 4 illustrate that the Enacted Plan's ten most-Republican districts exhibit a significantly narrower range of partisanship than is exhibited by the ten most-Republican districts in each of the computer-simulated plans. Specifically, the Enacted Plan's ten most-Republican districts all have Republican vote shares within the narrow range of 52.9% to 61.2%. As explained earlier, this narrow range is the product of two distinct dynamics: In the top two rows of Figure 4, the Enacted Plan's districts are significantly less Republican than nearly all of the simulated plans' districts in these rows. But in the fifth to tenth rows of Figure 4, the Enacted Plan's districts are more safely Republican-leaning than over 95% of the computer-simulated districts within each of these six rows. The overall result of these two distinct dynamics is that the Enacted Plan contains ten districts that all have Republican vote shares within the narrow range of 52.9% to 61.2%. I label any districts within this narrow range of partisanship as "mid-range" Republicanleaning districts, reflecting the fact that these districts have generally favored Republican candidates, but not by overwhelmingly large margins. 46. Is the Enacted Plan's creation of ten such "mid-range" Republican-leaning districts an outcome that ever occurs in the 1,000 computer-simulated plans? I analyzed the simulated plans and counted the number of districts within each plan that are similarly "mid-range" with a Republican vote share between 52.9% and 61.2%. As Figure 5 illustrates, the Enacted Plan's creation of ten "mid-range" Republican districts is an extreme statistical outlier. None of the 1,000 simulated plans comes close to creating ten such districts. Virtually all of the simulated plans contain from two to six "mid-range" Republican districts, and the most common outcome among the simulations is four such districts. Hence, the Enacted Plan is clearly an extreme partisan outlier in terms of its peculiar focus on maximizing the number of "mid-range" Republican districts, and the Enacted Plan did so to an extreme degree far beyond any of the 1,000 simulated plans created using a partisan-blind computer algorithm that follows the Adopted Criteria.

47. *Competitive Districts:* The Enacted Plan's maximization of "mid-range" Republican districts necessarily comes at the expense of creating more competitive districts. As Figure 4 illustrates, the Enacted Plan contains zero districts whose Republican vote share is higher than 47.0% and lower than 52.9%, as measured using the 2016-2020 Statewide Election Composite. In other words, there are zero districts in which the Republican vote share is within 5% of the Democratic vote share.

48. I label districts with a Republican vote share from 47.5% to 52.5% as "competitive" districts to reflect the fact that such districts have a nearly even share of Republican and Democratic voters, and election outcomes in the district could therefore swing in favor of either party. The Enacted Plan contains zero "competitive" districts, as measured using the 2016-2020 Statewide Election Composite.

# Figure 5:



Comparisons of Enacted SB 740 Plan to 1,000 Computer–Simulated Plans On Number of Mid–Range Republican Districts

Number of Competitive Districts with 47.5% to 52.5% Republican Vote Share Within Each Plan Using the 2016–2020 Statewide Election Composite (50.8% Statewide Republican 2–Party Vote Share) 49. Is the Enacted Plan's failure to create any "competitive" districts an outcome that ever occurs in the 1,000 computer-simulated plans? I analyzed the simulated plans and counted the number of districts within each plan that are "competitive" districts with a Republican vote share between 47.5% and 52.5%. As Figure 6 illustrates, the Enacted Plan's creation of zero "competitive" districts is almost a statistical outlier: Only 5.8% of the 1,000 simulated plans similarly fail to have a single "competitive" district. The vast majority of the computer-simulated plans contain two or more "competitive" districts. Over 94% of the computer-simulated plans create more "competitive" districts than the Enacted Plan does.

50. *Number of Democratic and Republican Districts:* Figure 7 compares the partisan breakdown of the computer-simulated plans to the partisanship of the Enacted Plan. Specifically, Figure 7 uses the 2016-2020 Statewide Election Composite to measure the number of Republican-favoring districts created in each of the 1,000 simulated plans. Across the entire state, Republican candidates collectively won a 50.8% share of the votes in the ten elections in the 2016-2020 Statewide Election Composite. But within the 14 districts in the Enacted Plan, Republicans have over a 50% vote share in 10 out of 14 districts. In other words, the Enacted Plan created 10 Republican-favoring districts, as measured using the 2016-2020 Statewide Election Composite. By contrast, only 3.4% of the computer-simulated plans create 10 Republican-favoring districts, and no computer-simulated plan ever creates more than 10 Republican districts.

51. Hence, in terms of the total number of Republican-favoring districts created by the plan, the 2021 Enacted Plan is a statistical outlier when compared to the 1,000 computersimulated plans. The Enacted Plan creates the maximum number of Republican districts that ever occurs in any computer-simulated plan, and the Enacted Plan creates more Republican districts

than 96.6% of the computer-simulated plans, which were drawn using a non-partisan districting process adhering to the General Assembly's 2021 Adopted Criteria. I characterize the Enacted Plan's creation of 10 Republican districts as a statistical outlier among the computer-simulated plans because the Enacted Plan exhibits an outcome that is more favorable to Republicans than over 95% of the simulated plans.



# Figure 7:

52. Notably, the ten elections included in the Statewide Election Composite all occurred in two election years and in electoral environments that were relatively favorable to Republicans across the country (November 2016 and November 2020). North Carolina did not hold any statewide elections for non-judicial offices in November 2018, which was an electoral environment more favorable to Democrats across the country.

53. Hence, the projected number of Republican seats would be even lower in the computer-simulated plans if one measured district partisanship using a statewide election whose outcome was more partisan-balanced or even favorable to Democrats. In the Appendix, I present ten histograms (labeled as Figures B1 to B10), each presenting the projected number of Republican seats across all of the simulated plans and the Enacted Plan using only one of the ten elections in the Statewide Election Composite.

54. The ten histograms in Figures B1 to B10 illustrate how the partisanship of the Enacted Plan compares to the partisanship of the 1,000 computer-simulated plans under a range of different electoral environments, as reflected by the ten elections in the Statewide Election Composite. Most notably, under all ten of these elections, the Enacted Plan always contains exactly 10 Republican-favoring districts and 4 Democrat-favoring districts. Hence, it is clear that the Enacted Plan creates a 10-to-4 distribution of seats in favor of Republican candidates that is durable across a range of different electoral conditions.

55. Moreover, the histograms in Figures B1 to B10 demonstrate that the Enacted Plan becomes a more extreme partisan outlier relative to the computer-simulated plans under electoral conditions that are slightly to moderately favorable to the Democratic candidate. For example, Figure B1 compares the Enacted Plan to the computer-simulated plan using the results of the 2016 Attorney General election, which was a near-tied statewide contest in which Democrat Josh

Stein defeated Republican Buck Newton by a very slim margin. Using the 2016 Attorney General election to measure district partisanship, the 2021 Enacted Plan contains 10 Republicanfavoring districts out of 14. The Enacted Plan's creation of 10 districts favoring Republican Buck Newton over Democrat Josh Stein is an outcome that occurs in only 0.2% of the 1,000 computersimulated plans, indicating that the Enacted Plan is a partisan statistical outlier under electoral conditions that are more favorable for Democrats (and thus relatively more unfavorable for Republicans) than is normal in North Carolina.

56. An even more favorable election for the Democratic candidate was the 2020 gubernatorial contest, in which Democrat Roy Cooper defeated Republican Dan Forest by a 4.5% margin. Figure B7 compares the Enacted Plan to the computer-simulated using the results of this 2020 gubernatorial election. Using the results from this election, the 2021 Enacted Plan contains 10 Republican-favoring districts out of 14. None of the 1,000 simulated plans ever contain 10 districts favoring the Republican candidate. The Enacted Plan's creation of 10 Republican-favoring districts is therefore an extreme partisan outlier that is durable even in Democratic-favorable electoral conditions. In fact, the 10-to-4 Republican partisan advantage under the Enacted Plan appears to become even more of an extreme partisan outlier under Democratic-favorable elections.

57. *The Mean-Median Difference:* I also calculate each districting plan's meanmedian difference, which is another accepted method that redistricting scholars commonly use to compare the relative partisan bias of different districting plans. The mean-median difference for any given plan is calculated as the mean district-level Republican vote share, minus the median district-level Republican vote share. For any congressional districting plan, the mean is calculated as the average of the Republican vote shares in each of the 14 districts. The median, in turn, is the Republican vote share in the district where Republican performed the middle-best, which is the district that Republican would need to win to secure a majority of the congressional delegation. For a congressional plan containing 14 districts, the median district is calculated as the average of the Republican vote share in the districts where Republican performed the 7th and 8th-best across the state.

58. Using the 2016-2020 Statewide Election Composite to measure partisanship, the districts in the 2021 Enacted Plan have a mean Republican vote share of 50.8%, while the median district has a Republican vote share of 56.2%. Thus, the Enacted Plan has a mean-median difference of +5.4%, indicating that the median district is skewed significantly more Republican than the plan's average district. The mean-median difference thus indicates that the Enacted Plan distributes voters across districts in such a way that most districts are significantly more Republican-leaning than the average North Carolina congressional district, while Democratic voters are more heavily concentrated in a minority of the Enacted Plan's districts.

59. I perform this same mean-median difference calculation on all computersimulated plans in order to determine whether this partisan skew in the median congressional districts could have resulted naturally from North Carolina's political geography and the application of the Adopted Criteria. Figure 8 compares the mean-median difference of the Enacted Plan to the mean-median difference for each the 1,000 computer-simulated plans.

60. Figure 8 contains 1,000 gray circles, representing the 1,000 computer-simulated plans, as well as a red star, representing the 2021 Enacted Plan. The horizontal axis in this Figure measures the mean-median difference of the 2021 Enacted Plan and each simulated plan using the 2016-2020 Statewide Election Composite, while the vertical axis measures the average Polsby-Popper compactness score of the districts within each plan, with higher Polsby-Popper

scores indicating more compact districts. Figure 8 illustrates that the Enacted Plan's meanmedian difference is +5.4%, indicating that the median district is skewed significantly more Republican than the plan's average district. Figure 8 further indicates that this difference is an extreme statistical outlier compared to the 1,000 computer-simulated plans. Indeed, the Enacted Plan's +5.4% mean-median difference is an outcome never observed across these 1,000 simulated plans. The 1,000 simulated plans all exhibit mean-median differences that range from -0.2% to +4.6%. In fact, the middle 50% of these computer-simulated plans have mean-median differences ranging from +2.0% to +3.0%, indicating a much smaller degree of skew in the median district than occurs under the 2021 Enacted Plan. These results confirm that the Enacted Plan creates an extreme partisan outcome that cannot be explained by North Carolina's voter .rict. Physical Republic Press, 1997 geography or by strict adherence to the required districting criteria set forth in the General Assembly's Adopted Criteria.

Figure 8:





61. Figure 8 illustrates that the Enacted Plan is less geographically compact than every single one of the computer-simulated plans, as measured by each plan's average Polsby-Popper score. The simulated plans have Polsby-Popper scores ranging from 0.31 to 0.43. In fact, the middle 50% of these computer-simulated plans have Polsby-Popper scores ranging from 0.36 to 0.39. Meanwhile, the Enacted Plan exhibits a Polsby-Popper score of only 0.30, which is lower than all 1,000 of the computer-simulated plans. Hence, it is clear that the Enacted Plan did not seek to draw districts that were as geographically compact as reasonably possible. Instead, the Enacted Plan subordinated geographic compactness, which enabled the Enacted Plan to create a partisan skew in North Carolina's congressional districts favoring Republican candidates.

62. The Efficiency Gap: Another commonly used measure of a districting plan's partisan bias is the efficiency gap.<sup>5</sup> To calculate the efficiency gap of the Enacted Plan and every computer-simulated plan, I first measure the number of Republican and Democratic votes within each Enacted Plan district and each computer-simulated district, as measured using the 2016-2020 Statewide Election Composite. Using this measure of district-level partisanship, I then calculate each districting plan's efficiency gap using the method outlined in *Partisan Gerrymandering and the Efficiency Gap.*<sup>6</sup> Districts are classified as Democratic votes in the district during these elections exceeds the sum total of Republican votes; otherwise, the district is classified as Republican. For each party, I then calculate the total sum of surplus votes in districts

<sup>&</sup>lt;sup>5</sup> Eric McGhee, "Measuring Partisan Bias in Single-Member District Electoral Systems." Legislative Studies Quarterly Vol. 39, No. 1: 55–85 (2014).

<sup>&</sup>lt;sup>6</sup> Nicholas O. Stephanopoulos & Eric M. McGhee, *Partisan Gerrymandering and the Efficiency Gap*, 82 University of Chicago Law Review 831 (2015).

the party won and lost votes in districts where the party lost. Specifically, in a district lost by a given party, all of the party's votes are considered lost votes; in a district won by a party, only the party's votes exceeding the 50% threshold necessary for victory are considered surplus votes. A party's total wasted votes for an entire districting plan is the sum of its surplus votes in districts won by the party and its lost votes in districts lost by the party. The efficiency gap is then calculated as total wasted Republican votes minus total wasted Democratic votes, divided by the total number of two-party votes cast statewide across all seven elections.

63. Thus, the theoretical importance of the efficiency gap is that it tells us the degree to which more Democratic or Republican votes are wasted across an entire districting plan. A significantly positive efficiency gap indicates far more Republican wasted votes, while a significantly negative efficiency gap indicates far more Democratic wasted votes.

64. I analyze whether the Enacted Plan's efficiency gap arises naturally from a mapdrawing process strictly adhering to the mandated criteria in the General Assembly's Adopted Criteria, or rather, whether the skew in the Enacted Plan's efficiency gap is explainable only as the product of a map-drawing process that intentionally favored one party over the other. By comparing the efficiency gap of the Enacted Plan to that of the computer-simulated plans, I am able to evaluate whether or not such the Enacted Plan's efficiency gap could have realistically resulted from adherence to the Adopted Criteria.

65. Figure 9 compares the efficiency paps of the Enacted Plan and of the 1,000 computer-simulated plans. As before, the 1,000 circles in this Figure represent the 1,000 computer-simulated plans, while the red star in the lower right corner represents the Enacted Plan. Each plan is plotted along the vertical axis according to its efficiency gap, while each plan is plotted along the horizontal axis according to its mean-median difference.

66. The results in Figure 9 illustrate that the Enacted Plan exhibits an efficiency gap of +19.5%, indicating that the plan results in far more wasted Democratic votes than wasted Republican votes. Specifically, the difference between the total number of wasted Democratic votes and wasted Republican votes amounts to 19.5% of the total number of votes statewide. The Enacted Plan's efficiency gap is larger than the efficiency gaps exhibited by 97.7% of the computer-simulated plans. This comparison reveals that the significant level of Republican bias exhibited by the Enacted Plan cannot be explained by North Carolina's political geography or the Adopted Criteria alone.

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Efficiency Gap (Using the 2016–2020 Statewide Election Composite)

Figure 9:

Comparisons of Enacted SB 740 Plan to 1,000 Computer-Simulated Plans

67. *The Lopsided Margins Measure:* Another measure of partisan bias in districting plans is the "lopsided margins" test. The basic premise captured by this measure is that a partisan-motivated map-drawer may attempt to pack the opposing party's voters into a small number of extreme districts that are won by a lopsided margin. Thus, for example, a map-drawer attempting to favor Party A may pack Party B's voters into a small number of districts that very heavily favor Party B. This packing would then allow Party A to win all the remaining districts with relatively smaller margins. This sort of partisan manipulation in districting would result in Party B winning its districts by extremely large margins, while Party A would win its districts by relatively small margins.

68. Hence, the lopsided margins test is performed by calculating the difference between the average margin of victory in Republican-favoring districts and the average margin of victory in Democratic-favoring districts. The 2021 Enacted Plan contains four Democraticfavoring districts (CD-2, 5, 6, and 9), and these four districts have an average Democratic vote share of 65.4%, as measured using the 2016-2020 Statewide Election Composite. By contrast, the Enacted Plan contains ten Republican-favoring districts (CD-1, 3, 4, 7, 8, 10, 11, 12, 13, and 14), and these ten districts have an average Republican vote share of 57.3%. Hence, the difference between the average Democratic margin of victory in Democratic-favoring districts and the average Republican margin of victory in Republican-favoring districts is +8.1%, which is calculated as 65.4% - 57.3%. I refer to this calculation of +8.1% as the Enacted Plan's lopsided margins measure.

69. How does the 8.1% lopsided margins measure of the Enacted Plan compare to the same calculation for the 1,000 computer-simulated plans? Figure 10 reports the lopsided margins calculations for the Enacted Plan and for the simulated plans. In Figure 10, each plan is plotted

along the horizontal axis according to its lopsided margins measure and along the vertical axis according to its mean-median difference.

70. Figure 10 reveals that the Enacted Plan's +8.1% lopsided margins measure is an extreme outlier compared to the lopsided margins measures of the 1,000 computer-simulated plans. All 1,000 of the simulated plans have a smaller lopsided margins measure than the Enacted Plan. In fact, a significant minority (34.5%) of the 1,000 simulated plans have a lopsided margins measure of between -2% to +2%, indicating a plan in which Democrats and Republicans win their respective districts by similar average margins.

71. By contrast, the Enacted Plan's lopsided margins measure of +8.1% indicates that the Enacted Plan creates districts in which Democrats are extremely packed into their districts, while the margin of victory in Republican districts is significantly smaller. The "lopsidedness" of the two parties' average margin of victory is extreme when compared to the computer-simulated plans. The finding that all 1,000 simulated plans have a smaller lopsided margins measure indicates that the Enacted Plan's extreme packing of Democrats into Democratic-favoring districts was not simply the result of North Carolina's political geography, combined with adherence to the Adopted Criteria.







# Mean Minus Median District-Level Republican Vote Share (Using the 2016-2020 Statewide Election Composite)
### **Conclusions Regarding Partisanship and Traditional Districting Criteria:**

72. The analysis described thus far in this report lead me to reach two main findings: First, among the five traditional districting criteria mandated by the General Assembly's 2021 Adopted Criteria, the Enacted Plan fails to minimize county splits, fails to minimize VTD splits, and is significantly less geographically compact than is reasonably possible under a districting process that follows the Adopted Criteria. Second, I found that the Enacted Plan is an extreme partisan outlier when compared to computer-simulated plans produced by a process following the Adopted Criteria. The Enacted Plan contains 10 districts that are partisan outliers when compared to the simulated plans' districts, and using several different common measures of partisan bias, the Enacted Plan creates a level of pro-Republican bias more extreme than in over 95% of the computer-simulated plans. In particular, the Enacted Plan creates more "mid-range" Republican districts than is created in 100% of the computer-simulated plans (Paragraphs 45-46).

73. Based on these two main findings, I conclude that partisanship predominated in the drawing of the 2021 Enacted Plan and subordinated the traditional districting principles of avoiding county splits, avoiding VTD splits, and geographic compactness. Because the Enacted Plan fails to follow three of the Adopted Criteria's mandated districting principles while simultaneously creating an extreme level of partisan bias, I therefore conclude that the partisan bias of the Enacted Plan did not naturally arise by chance from a districting process adhering to the Adopted Criteria. Instead, I conclude that partisan goals predominated in the drawing of the Enacted Plan. By subordinating traditional districting criteria, the General Assembly's Enacted Plan was able to achieve partisan goals that could not otherwise have been achieved under a partisan-neutral districting process that follows the Adopted Criteria.

### The Effect of the Enacted Plan Districts on Plaintiffs

74. I evaluated the congressional districts in which each Plaintiff would reside under the 1,000 computer-simulated using a list of geocoded residential addresses for the Plaintiffs that counsel for the Plaintiffs provided me. I used these geocoded addresses to identify the specific district in which each Plaintiff would be located under each computer-simulated plan, as well as under the Enacted Plan. I then compared the partisanship of each individual Plaintiff's Enacted Plan district to the partisanship of the Plaintiff's 1,000 districts from the 1,000 computersimulated plans. Using this approach, I identify whether each Plaintiff's district is a partisan outlier when compared to the Plaintiff's 1,000 computer-simulated districts.

75. Figure 11 present the results of this analysis. This Figure lists the individual Plaintiffs and describes the partisanship of each Plaintiff's district of residence in the Enacted Plan, as well as the partisanship of the district the Plaintiff would have resided in under each of the 1,000 simulated congressional plans.

76. To explain these analyses with an example each row in Figure 11 corresponds to a particular individual Plaintiff. In the first row, describing Plaintiff David Brown, the red star depicts the partisanship of the Plaintiff's Enacted Plan district (CD-11), as measured by Republican vote share using the 2016-2020 Statewide Election Composite. The 1,000 gray circles on this row depict the Republican vote share of each of the 1,000 simulated districts in which the Plaintiff would reside in each of the 1,000 computer-simulated plans, based on that Plaintiff's residential address. In the margin to the right of each row, I list in parentheses how many of the 1,000 simulated plans would place the plaintiff in a more Democratic-leaning district (on the left) and how many of the 1,000 simulations would place the plaintiff's Enacted Plan district. Thus, for

example, the first row of Figure 11 reports that 98% of the 1,000 computer-simulated plans would place Plaintiff David Brown in a more Democratic-leaning district than his actual Enacted Plan district (CD-11). Therefore, I can conclude that Plaintiff David Brown's Enacted Plan district is a partisan statistical outlier when compared to his district under the 1,000 simulated plans.

77. Figure 11 shows that two Plaintiffs residing in Republican-leaning districts under the Enacted Plan would be placed in a more Democratic-leaning district in over 95% of the computer-simulated plans: David Brown (CD-11) and Lily Nicole Quick (CD-7).

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Figure 11:



Plaintiffs' Districts in the SB 740 Plan and in 1,000 Computer-Simulated Plans

78. Additionally, Figure 11 shows that six Plaintiffs would be placed in a more Republican district in 99.9% or more of the simulated plans relative to their districts under the Enacted Plan: Virginia Brien (CD-9), Jackson Dunn (CD-9), Mark Peters (CD-14), Kathleen Barnes (CD-14), Richard R. Crews (CD-14), and Rebecca Harper (CD-6).

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I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

This 30th day of November, 2021.

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Dr. Jowei Chen

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# Jowei Chen Curriculum Vitae

Department of Political Science University of Michigan 5700 Haven Hall 505 South State Street Ann Arbor, MI 48109-1045 Phone: 917-861-7712, Email: jowei@umich.edu Website: <u>http://www.umich.edu/~jowei</u>

# **Academic Positions:**

Associate Professor (2015-present), Assistant Professor (2009-2015), Department of Political Science, University of Michigan.
Research Associate Professor (2016-present), Faculty Associate (2009-2015), Center for Political Studies, University of Michigan.
W. Glenn Campbell and Rita Ricardo-Campbell National Fellow, Hoover Institution, Stanford University, 2013.
Principal Investigator and Senior Research Fellow, Center for Governance and Public Policy Research, Willamette University, 2013 – Present.

# Education:

Ph.D., Political Science, Stanford University (June 2009)M.S., Statistics, Stanford University (January 2007)B.A., Ethics, Politics, and Economics, Yale University (May 2004)

# **Publications:**

Chen, Jowei and Neil Malhotra. 2007. "The Law of k/n: The Effect of Chamber Size on Government Spending in Bicameral Legislatures."

American Political Science Review. 101(4): 657-676.

Chen, Jowei, 2010. "The Effect of Electoral Geography on Pork Barreling in Bicameral Legislatures."

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Chen, Jowei and Nicholas Stephanopoulos, 2021. "Democracy's Denominator." <u>California Law Review, Accepted for Publication, Volume 109.</u>

# **Non-Peer-Reviewed Publication:**

Chen, Jowei and Tim Johnson. 2017. "Political Ideology in the Bureaucracy." <u>Global Encyclopedia of Public Administration, Public Policy, and Governance</u>.

# **Research Grants:**

"How Citizenship-Based Redistricting Systemically Disadvantages Voters of Color". 2020 (\$18,225). Combating and Confronting Racism Grant. University of Michigan Center for Social Solutions and Poverty Solutions.

Principal Investigator. <u>National Science Foundation Grant SES-1459459</u>, September 2015 – August 2018 (\$165,008). "The Political Control of U.S. Federal Agencies and Bureaucratic Political Behavior."

"Economic Disparity and Federal Investments in Detroit," (with Brian Min) 2011. Graham Institute, University of Michigan (\$30,000).

"The Partisan Effect of OSHA Enforcement on Workplace Injuries," (with Connor Raso) 2009. John M. Olin Law and Economics Research Grant (\$4,410).

# Invited Talks:

September, 2011. University of Virginia, American Politics Workshop.

October 2011. Massachusetts Institute of Technology, American Politics Conference.

January 2012. University of Chicago, Political Economy/American Politics Seminar.

February 2012. Harvard University, Positive Political Economy Seminar.

September 2012. Emory University, Political Institutions and Methodology Colloquium.

November 2012. University of Wisconsin, Madison, American Politics Workshop.

September 2013. Stanford University, Graduate School of Business, Political Economy Workshop.

February 2014. Princeton University. Center for the Study of Democratic Politics Workshop. November 2014. Yale University. American Politics and Public Policy Workshop.

December 2014. American Constitution Society for Law & Policy Conference: Building the Evidence to Win Voting Rights Cases.

February 2015. University of Rochester, American Politics Working Group.

March 2015. Harvard University, Voting Rights Act Workshop.

May 2015. Harvard University, Conference on Political Geography.

Octoer 2015. George Washington University School of Law, Conference on Redistricting Reform.

September 2016. Harvard University Center for Governmental and International Studies, Voting Rights Institute Conference.

March 2017. Duke University, Sanford School of Public Policy, Redistricting Reform Conference.

October 2017. Willamette University, Center for Governance and Public Policy Research

October 2017, University of Wisconsin, Madison. Geometry of Redistricting Conference.

February 2018: University of Georgia Law School

September 2018. Willamette University.

November 2018. Yale University, Redistricting Workshop.

November 2018. University of Washington, Severyns Ravenholt Seminar in Comparative Politics.

January 2019. Duke University, Reason, Reform & Redistricting Conference.

February 2019. Ohio State University, Department of Political Science. Departmental speaker series.

March 2019. Wayne State University Law School, Gerrymandering Symposium.

November 2019. Big Data Ignite Conference.

November 2019. Calvin College, Department of Mathematics and Statistics.

September 2020 (Virtual). Yale University, Yale Law Journal Scholarship Workshop

# **Conference Service:**

Section Chair, 2017 APSA (San Francisco, CA), Political Methodology Section Discussant, 2014 Political Methodology Conference (University of Georgia) Section Chair, 2012 MPSA (Chicago, IL), Political Geography Section. Discussant, 2011 MPSA (Chicago, IL) "Presidential-Congressional Interaction." Discussant, 2008 APSA (Boston, MA) "Congressional Appropriations." Chair and Discussant, 2008 MPSA (Chicago, IL) "Distributive Politics: Parties and Pork."

# **Conference Presentations and Working Papers:**

"Ideological Representation of Geographic Constituencies in the U.S. Bureaucracy," (with Tim Johnson). 2017 APSA.

"Incentives for Political versus Technical Expertise in the Public Bureaucracy," (with Tim Johnson). 2016 APSA.

"Black Electoral Geography and Congressional Districting: The Effect of Racial Redistricting on Partisan Gerrymandering". 2016 Annual Meeting of the Society for Political Methodology (Rice University)

"Racial Gerrymandering and Electoral Geography." Working Paper, 2016.

"Does Deserved Spending Win More Votes? Evidence from Individual-Level Disaster Assistance," (with Andrew Healy). 2014 APSA.

"The Geographic Link Between Votes and Seats: How the Geographic Distribution of Partisans Determines the Electoral Responsiveness and Bias of Legislative Elections," (with David Cottrell). 2014 APSA.

"Gerrymandering for Money: Drawing districts with respect to donors rather than voters." 2014 MPSA.

"Constituent Age and Legislator Responsiveness: The Effect of Constituent Opinion on the Vote for Federal Health Reform." (with Katharine Bradley) 2012 MPSA.

"Voter Partisanship and the Mobilizing Effect of Presidential Advertising." (with Kyle Dropp) 2012 MPSA.

"Recency Bias in Retrospective Voting: The Effect of Distributive Benefits on Voting Behavior." (with Andrew Feher) 2012 MPSA.

"Estimating the Political Ideologies of Appointed Public Bureaucrats," (with Adam Bonica and Tim Johnson) 2012 Annual Meeting of the Society for Political Methodology (University of North Carolina)

"Tobler's Law, Urbanization, and Electoral Bias in Florida." (with Jonathan Rodden) 2010 Annual Meeting of the Society for Political Methodology (University of Iowa)

"Unionization and Presidential Control of the Bureaucracy" (with Tim Johnson) 2011 MPSA.

"Estimating Bureaucratic Ideal Points with Federal Campaign Contributions" 2010 APSA. (Washington, DC).

"The Effect of Electoral Geography on Pork Spending in Bicameral Legislatures," Vanderbilt University Conference on Bicameralism, 2009.

"When Do Government Benefits Influence Voters' Behavior? The Effect of FEMA Disaster Awards on US Presidential Votes," 2009 APSA (Toronto, Canada).

"Are Poor Voters Easier to Buy Off?" 2009 APSA (Toronto, Canada).

"Credit Sharing Among Legislators: Electoral Geography's Effect on Pork Barreling in Legislatures," 2008 APSA (Boston, MA).

"Buying Votes with Public Funds in the US Presidential Election," Poster Presentation at the 2008 Annual Meeting of the Society for Political Methodology (University of Michigan).

"The Effect of Electoral Geography on Pork Spending in Bicameral Legislatures," 2008 MPSA.

"Legislative Free-Riding and Spending on Pure Public Goods," 2007 MPSA (Chicago, IL).

"Free Riding in Multi-Member Legislatures," (with Neil Malhotra) 2007 MPSA (Chicago, IL).

"The Effect of Legislature Size, Bicameralism, and Geography on Government Spending: Evidence from the American States," (with Neil Malhotra) 2006 APSA (Philadelphia, PA).







Districts' Republican Vote Share Measured Using the 2016 Lieutenant Governor Election Results (76.7%, 23.3%) (67.9%, 32.1%) -(70.1%, 29.9%) (17.5%, 82.5%) (98.5%, 1.5%) (91.4%, 8.6%) (99.6%, 0.4%) (3.4%, 96.6%) (99.4%, 0.6%) (99.7%, 0.3%) -(0%, 100%) -(0%, 100%) (100%, 0%) (0%, 100%) Figure A3: Comparison of Enacted SB 740 Plan to 1,000 Computer-Simulated Plans: 75% District's Republican Vote Share Measured Using the 2016 Lieutenant Governor election 70% CD-10 65% CD-13 CD-8 CD-7 (53.3% Statewide Republican 2-Party Vote Share) %09 **CD-12** CD-3 CD-1 <u>0</u> 0 11 1,000 Computer-Simulated Plans
 2021 Enacted SR 710 Disc CD-14 55% CD-4 50% CD-2 45% 40% 0 d 35% CD-0 CD-9 \* 30% 25% 20% 4th-Most Republican District-3rd-Most Republican District-9th-Most Republican District-10th-Most Republican District-2nd-Most Republican District-5th-Most Republican District-11th-Most Republican District-12th-Most Republican District-13th-Most Republican District-6th-Most Republican District-8th-Most Republican District-7th-Most Republican District-14th-Most Republican District-Most Republican District Within Each Plan

Percent of Simulated Districts with a Lower/Higher Republican Vote Share Than Each Enacted Plan District





Percent of Simulated Districts with a Lower/Higher Republican Vote Share Than Each Enacted Plan District

















Figure B1: Comparisons of Enacted SB 740 Plan to 1,000 Computer-Simulated Plans





Figure B2: Comparisons of Enacted SB 740 Plan to 1,000 Computer-Simulated Plans

Frequency Among 1000 Computer-Simulated Plans



Figure B3: Comparisons of Enacted SB 740 Plan to 1,000 Computer-Simulated Plans

Frequency Among 1000 Computer-Simulated Plans

68

(53.3% Statewide Republican 2-Party Vote Share)



Frequency Among 1000 Computer-Simulated Plans





42

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10

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1.9%

34.8%

56.3%

6.8%

0.2%

25 \_ 0 \_

150 -

125 -100 -75 -50 -

200 -175 -

Frequency Among 1000 Computer-Simulated Plans



(49.9% Statewide Republican 2-Party Vote Share)





72

(47.7% Statewide Republican 2-Party Vote Share)



(51.6% Statewide Republican 2-Party Vote Share)

Frequency Among 1000 Computer-Simulated Plans



Frequency Among 1000 Computer-Simulated Plans



Frequency Among 1000 Computer-Simulated Plans

# EXHIBIT I

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# Preliminary analysis of SL 2021-174 Congressional districting

Wesley Pegden

November 29, 2021

# **1** Qualifications

I am an associate professor in the department of Mathematical Sciences at Carnegie Mellon University, where I have been a member of the faculty since 2013. I received my Ph.D. in Mathematics from Rutgers University in 2010 under the supervision of József Beck, and I am an expert on stochastic processes and discrete probability. My research has been funded by the National Science Foundation and the Sloan Foundation. A list of my publications with links to online manuscripts is also available at my website at http://math.cmu. edu/~wes. I am an expert on the use of Markov Chains for the rigorous analysis of gerrymandering, and have published papers<sup>[1]</sup> developing techniques for this application in *Proceedings of the National Academy* of Sciences and Statistics and Public Policy, hereafter referred to by [CFP] and [CFMP], respectively.

I testified as an expert witness in the League of Women Voters of Pennsylvania v. Commonwealth of Pennsylvania case in which the 2011 Congressional districting was found to be an unconstitutional partian gerrymander, and as well as the Common Cause v. Lewis case in North Carolina. I previously served as a member of the bipartisan Pennsylvania Redistricting Reform Commission under appointment by the governor.

### 2 Executive Summary

I was asked to conduct a preliminary analysis of whether the S.L. 2021-174 Congressional Districting passed in North Carolina drawn in a way which made extreme use of partian considerations.

To conduct my analysis, I take the enacted plan as a starting point and make a sequence of many small random changes to the district boundaries. This methodology is intended to detect whether the district lines were carefully drawn to optimize partisan considerations; in particular, if the plans in question were not intentionally drawn to maximize partisan advantage, then making small random changes should not significantly decrease the plan's partisan bias.

Specifically, my method begins with the enacted plan and uses a Markov Chain—a sequence of random changes—to generate billions of comparison districtings against which I compare the enacted plans. These comparison districtings are generated by making a sequence of small random changes to the enacted plans themselves, and preserve districting criteria such as population deviation, compactness, and splitting of counties.

The analysis I conduct of the enacted plan using this data has two levels. The first level of my analysis consists simply of comparing the partisan properties of the enacted plans to the large sets of comparison maps produced by my Markov Chain, and I report how unusual the enacted plans are with respect to their partisan properties, against this comparison set. Quantitatively, I find the enacted S.L. 2021-174 Congressional plan exhibits greater partisan bias than 99.99% of the billions of comparison districtings of North Carolina produced by my algorithm.

<sup>[1]</sup> 

M. Chikina, A. Frieze, W. Pegden. Assessing significance in a Markov Chain without mixing, in Proceedings of the National Academy of Sciences 114 (2017) 2860–2864

<sup>•</sup> M. Chikina, A. Frieze, J. Mattingly, W. Pegden. Separating effect from significance in Markov chain tests, in *Statistics and Public Policy* 7 (2020) 101–114.

The next level of my analysis uses the mathematical results I have developed with my co-authors in [CFP] and [CFMP] to translate the results of the above comparison into a statement about how the enacted plans compare against *all* other districtings of North Carolina satisfying the districting criteria I consider in this report. In other words, the theorem that I use in the second level analysis allows me to compare the enacted plan against not only the billions of plans that my simulations produce through making small random changes, but also against all other possible districtings of North Carolina satisfying the districting criteria I consider criteria I consider.

Consider the following: when I make a sequence of small random changes to an enacted plan as described above, this can be viewed as a test of whether the partisan bias in the current districting is fragile, in the sense that it evaporates when the boundary lines of the district are perturbed. The theorems proved in [CFP] and [CFMP] establish that it is mathematically impossible for the political geography of a state to cause such a result. That is: while political geography might conceivably interact with districting criteria to create a situation where typical districtings of a state are biased in favor of one party, it is mathematically impossible for the political geography of a state to interact with districting criteria to create a situation where typical districtings of a state exhibit a *fragile* or *optimized* partisan bias, which quickly evaporates when small changes are made. This allows us to rigorously demonstrate that a districting is optimized with respect to partisanship, and is an outlier among *all* districtings of a state satisfying the criteria I consider, with respect to this property.

### 2.1 Comparison Criteria

The comparison districtings used by method are required to satisfy various criteria in ways that constrain them to be similar in several respects to the enacted map being evaluated. For the preliminary analysis, all comparison maps were constrained to have population deviation at most 2%, and to have compactness scores at good as the enacted map, up to an error of at most 2%, no more precinct splits than the enacted map, and no more county traversals than the enacted map. These restrictions are denoted "conditions A" in the results below. I also conducted three additional tests which additionally constrain the number of municipality splits ("conditions B"), additionally constrain incumbents protected by the enacted map to be protected by all comparison maps ("conditions C<sup>\*</sup>), or additionally constrain both ("conditions D").

### 2.2 Note on Population Deviation

My method does not simulate the results of elections for hypothetical elections at the per-person level, and thus do not enforce 1-person population deviation on districts (instead using a cutoff like 2%, as described above), as direct voter preference data is not available at sufficient granularity. Note that this same limitation faces mapmakers who might try to draw a favorable districting for their party; a practical approach is to first use the available data to draw a "coarse" map with the desired properties, and then make small changes to the map (e.g., which split VTDs) to satisfy the population constraint.

I verify that the distinction between 1-person and 2% population deviation do not drive the results of my analysis in two ways.

First, I simply redo my most constrained analysis ("Conditions D") with a 1% population deviation constraint, and obtain similar results.

Second, I analyze a course VTD-level version of the enacted map (itself with nearly 2% population deviation), and show that even this coarse version of the enacted map is an extreme outlier with respect to partisan bias, before small changes are made to it to produce the enacted 1-person-deviation map. This demonstrates that the course VTD-level "blueprint" for the map is an extreme outlier, optimized for partisan considerations, among alternative VTD-level maps with similar population deviation, even before the small changes used to achieve 1-person deviation are accounted for.

These results are shown in Section 3.

### 2.3 Election data

The partisan characteristics of each of the billions of maps generated by my algorithm is compared to that of the enacted map through the lens of historical election data. I use the 2020 Attorney General race as a proxy for expected partisan voting patterns given knowledge available at the time the disputed plan was drawn.

### 2.4 Comparison metric

Using the election data indicated above, my analysis compares the partisanship of districtings according to **the average number of seats Republicans would expect to win in the districting**, based on a random uniform swing model with the historical voting data I use.

The *uniform swing* is a simple model frequently used to make predictions about the number of seats a party might win in an election, based on partian voting data. Suppose, for example, that given data from a previous Congressional election in North Carolina, we would like to predict how many seats Republicans will win in an upcoming Congressional election with the same districting, assuming that at a statewide level, we expect them to outperform by 1.5 percentage points their results from the last election.

A uniform swing would simply add 1.5 percentage points to Republican performance in every district in data from the last election, and then evaluate how many seats would be won with these shifted voting outcomes.

When I am evaluating the partisanship of a comparison districting (to compare it to the enacted plan), I am interested in the number of seats we expect Republicans might win in the districting, given unknown shifts in particular, the metric I use is:

How many seats, on average, would Republicans win in the given districting, if a random<sup>[2]</sup> uniform swing is applied to the historical voting data being used?

### 2.5 First level analysis

The first level of my analysis simply uses the procedure described above to generate a large set of comparison districtings against which one can compare the enacted plan. As discussed above, these comparison maps adhere to districting criteria in ways that constrain them to be similar in several respects to the enacted map being evaluated.

We will see below that in hundreds of runs of my algorithm, the enacted plan is found to be exhibit more partial bias than 99.99% of comparison maps, i.e., it is among the most partial 00.01% of found by the algorithm, since 100% - 99.99% = 00.01%.

The first level of my analysis simply reports the comparison of the enacted map to the comparison districtings produced in these runs. Even without applying the mathematical theorems we have developed in [CFP] and [CFMP], this gives strong, intuitively clear evidence of intent to create partisan bias in the districting: if the districting had not been drawn to carefully optimize its partisan bias, we would expect naturally that making small random changes to the districting would not have such a dramatic and consistent partisan effect.

### 2.6 Second level analysis

In the first level of my analysis, I compare enacted plans to comparison districtings produced by my algorithm (which makes random changes to the existing map while preserving districting criteria).

The next level of my analysis goes further than this, and enables a rigorous comparison to *all* alternative districtings of North Carolina satisfying the districting criteria I consider here. It does this by comparing how optimized for partial plan an evaluated plan is to how optimized alternative plans are.

### 2.6.1 Defining "optimized for partisanship"

Roughly speaking, when I say that a districting is *optimized for partisanship*, I mean that its partisan characteristics are highly sensitive to small random changes to the boundary lines.

<sup>&</sup>lt;sup>[2]</sup>The random choice of my uniform swing is made from a normal distribution whose standard deviation is 4 percentage points, which is roughly the standard deviation of the swing in the past five North Carolina gubernatorial elections.

Formally, when I say that a districting is *optimized for partisanship* in this report, I mean that there is a high probability that when I make small random changes to the districting, its partisanship will be an extreme outlier among the comparison maps produced by the small random changes.

The yardstick I use to measure this property of a given map is the  $\varepsilon$ -fragility of a map. Given a small threshold  $\varepsilon$  like  $\varepsilon = 00.01\%$ , I can ask: what is the probability that when I make a sequence of small random changes to the map, the map will be in the most extreme  $\varepsilon$  fraction of maps encountered in the sequence of random changes? The probability of this occurrence is the  $\varepsilon$ -fragility of the map, and it is this probability that I use to quantify how optimized for partianship a map is.

In other words, one districting is considered more optimized for partial partial partial if it is more likely to have its partial qualities consistently reduced when making a random sequence of small changes to its boundary lines.

### 2.6.2 Comparing an enacted plan to the set of all alternatives

My analysis enables a rigorous comparison of an enacted plan to **all possible districting plans of the state** satisfying the districting criteria I consider, with respect to how optimized for partial plans are.

My method produces a rigorous *p*-value (statistical significance level) which precisely captures the confidence one can have in the findings of my "second level" analyses. In particular my second-level claims in this report are all valid at a statistical significance of p = .002. This means that the probability that I would report an incorrect number (for example, claiming that a districting is among the most optimized for partisanship 00.01% of all districtings, when in fact it is merely among the most 00.015% optimized for partisanship) is at most 00.2%. To put this in context, clinical trials seeking regulatory approval for new medications frequently target a significance level of p = .05 (5%), a much looser standard than I hold myself to in this report.

### 2.6.3 Some intuition for why this is possible

It should be emphasized that it may seem remarkable that I can make a rigorous quantifiable comparison to *all* possible districtings, without actually generating all such districtings; this is the role of our theorems from [CFP] and [CFMP], which have simple proofs which have been verified by the mathematical community.

To give some nontechnical intuition for why this kind of analysis is possible, these results roughly work by showing that in a very general sense, it is not possible for an appreciable fraction of districtings of a state to appear optimized for partisanship in the sense defined in Section 2.6.1. In other words, it is *mathematically impossible* for any state, with any political geography of voting preferences and any choice of districting criteria, to have the property that a significant fraction of the possible districtings of the state satisfying the chosen districting criteria appear optimized for partisanship (as measured by their  $\varepsilon$ -fragility).

### 2.7 Results

For each of the four conditions described in 2.1, I did  $2^{35} \approx 34$  billion steps. In this section I give the first-level and second-level analyses of these results, along with the output of each run.
2.7.1	Conditions	Α

Run	Percentage of						
	comparison maps		comparison maps		comparison maps		comparison maps
	less partisan than						
	enacted plan		enacted plan		enacted plan		enacted plan
1	99.999943%	9	99.999943%	17	99.99971%	25	99.9998%
2	99.999973%	10	99.999908%	18	99.999987%	26	99.9999953%
3	99.99978%	11	99.99972%	19	99.99992%	27	99.999962%
4	99.9998%	12	99.99933%	20	99.9994%	28	99.99964%
5	99.999901%	13	99.999927%	21	99.999988%	29	99.999979%
6	99.99967%	14	99.999962%	22	99.99904%	30	99.99964%
7	99.999985%	15	99.999983%	23	99.9999965%	31	99.9989%
8	99.999908%	16	99.99977%	24	99.999986%	32	99.999976%

- First level analysis: In *every* run, the districting was in the most partian 00.0011% of districtings (in other words, 99.9989% were less partian, in *every* run).
- Second level analysis: My theorems imply that the enacted Congressional districting is among the most optimized-for-partial product 0.003% of all alternative districtings of North Carolina satisfying my districting criteria (in other words, 99.997\% are less optimized for partial product), measured by their  $\varepsilon$ -fragility for  $\varepsilon = 00.0011\%$ .

### 2.7.2 Conditions B

Percentage of	Run	Percentage of	Run	Percentage of	Run	Percentage of
comparison maps		comparison maps		comparison maps		comparison maps
less partisan than		less partisan than	~	less partisan than		less partisan than
enacted plan		enacted plan	R.Y.	enacted plan		enacted plan
99.999989%	9	99.9995%	017	99.999943%	25	99.9978%
99.9986%	10	99.99999981%	18	99.99982%	26	99.999915%
99.99962%	11	99.999955%	19	99.99929%	27	99.99957%
99.999901%	12	99.999959%	20	99.9985%	28	99.99998%
99.999914%	13	99.99988%	21	99.99945%	29	99.999972%
99.9999982%	14	99.9988%	22	99.99976%	30	99.999935%
99.99986%	15	99.999964%	23	99.99979%	31	99.99964%
99.999926%	16	99.9989%	24	99.999996%	32	99.999958%
	Percentage of comparison maps less partisan than enacted plan 99.999989% 99.9986% 99.99962% 99.999901% 99.999914% 99.9999982% 99.999986% 99.999926%	Percentage of comparison maps less partisan than enacted plan Run   99.999989% 9   99.99986% 10   99.99962% 11   99.999901% 12   99.999914% 13   99.999986% 14   99.99986% 15   99.999926% 16	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

- First level analysis: In *every* run, the districting was in the most partian 00.0021% of districtings (in other words, 99.9979% were less partian, in *every* run).
- Second level analysis: My theorems imply that the enacted Congressional districting is among the most optimized-for-partisanship 00.0063% of all alternative districtings of North Carolina satisfying my districting criteria (in other words, 99.9937% are less optimized for partisanship), measured by their  $\varepsilon$ -fragility for  $\varepsilon = 00.0021\%$ .

### 2.7.3 Conditions C

Run	Percentage of						
	comparison maps		comparison maps		comparison maps		comparison maps
	less partisan than						
	enacted plan		enacted plan		enacted plan		enacted plan
1	99.999998%	9	99.999938%	17	99.999965%	25	99.9999941%
2	99.99964%	10	99.99982%	18	99.99945%	26	99.99982%
3	99.9978%	11	99.99987%	19	99.999924%	27	99.999957%
4	99.9995%	12	99.99984%	20	99.99987%	28	99.99984%
5	99.99998%	13	99.99921%	21	99.999956%	29	99.99987%
6	99.99979%	14	99.99961%	22	99.99949%	30	99.99955%
7	99.999979%	15	99.99972%	23	99.99962%	31	99.99988%
8	99.99982%	16	99.999921%	24	99.99938%	32	99.99984%

- First level analysis: In *every* run, the districting was in the most partian 00.0022% of districtings (in other words, 99.9978% were less partian, in *every* run).
- Second level analysis: My theorems imply that the enacted Congressional districting is among the most optimized-for-partial 00.0065% of all alternative districtings of North Carolina satisfying my districting criteria (in other words, 99.9935% are less optimized for partial partial by their  $\varepsilon$ -fragility for  $\varepsilon = 00.0022\%$ .

#### 2.7.4 Conditions D

Run	Percentage of						
	comparison maps		comparison maps		comparison maps		comparison maps
	less partisan than						
	enacted plan		enacted plan		enacted plan		enacted plan
1	99.9997%	9	99.99976%	17	99.99958%	25	99.99979%
2	99.99989%	10	99.999924%	18	99.9999942%	26	99.999986%
3	99.99962%	11	99.99982%	19	99.99963%	27	99.9978%
4	99.99976%	12	99.9999986%	20	99.9999983%	28	99.99969%
5	99.99988%	13	99.99979%	21	99.99954%	29	99.9995%
6	99.99958%	14	99.999986%	22	99.999904%	30	99.999984%
7	99.999986%	15	99.99954%	23	99.99989%	31	99.999955%
8	99.999956%	16	99.999965%	24	99.99971%	32	99.999962%

- First level analysis: In every run, the districting was in the most partian 00.0022% of districtings (in other words, 99.9978% were less partian, in every run).
- Second level analysis: My theorems imply that the enacted Congressional districting is among the most optimized-for-partisanship 00.0065% of all alternative districtings of North Carolina satisfying my districting criteria (in other words, 99.9935% are less optimized for partisanship), measured by their  $\varepsilon$ -fragility for  $\varepsilon = 00.0022\%$ .

### 3 Conclusion

Based on my analysis, I find the enacted S.L. 2021-174 Congressional plan is optimized for Republican partian bias to an extreme degree, moreso than 99.99% of all alternative districtings satisfying the criteria I examined in this report.

### Appendix: Population deviation analysis

In this section we show results from running our algorithm under conditions discussed in Section 2.2.

First, we use the most restrictive "Conditions D" but impose a requirement of  $\leq 1\%$  population deviation, obtaining the following results:

Run	Percentage of						
	comparison maps		comparison maps		comparison maps		comparison maps
	less partisan than						
	enacted plan		enacted plan		enacted plan		enacted plan
1	99.9986%	9	99.99947%	17	99.9975%	25	99.99907%
2	99.99939%	10	99.99987%	18	99.999928%	26	99.99969%
3	99.999961%	11	99.99958%	19	99.99973%	27	99.99984%
4	99.99923%	12	99.9999969%	20	99.99929%	28	99.9996%
5	99.99963%	13	99.9999%	21	99.99916%	29	99.999998%
6	99.9998%	14	99.99989%	22	99.99922%	30	99.99983%
7	99.9989%	15	99.99982%	23	99.9988%	31	99.998%
8	99.999911%	16	99.9988%	24	99.99934%	32	99.99945%

Next, we run our algorithm on a coarse "whole-precinct" version of the enacted map. This is the districting obtained by assigning each split VTD to the district with which its intersection is greatest, and is a coarse starting point from which one can obtain a 1-person deviation map by carefully splitting VTD's. Its population deviation from ideal is 1.8%. In the results below, we see that this coarse version of the enacted map also exhibits extreme partian bias, demonstrating that the appearance of partian bias is not created by the maps adherence to strict constraints on population deviation.

Run	Percentage of						
	comparison maps		comparison maps		comparison maps		comparison maps
	less partisan than						
	enacted plan		enacted plan		enacted plan		enacted plan
1	99.99937%	9	99.99942%	17	99.99942%	25	99.99939%
2	99.99949%	10	99.99917%	18	99.9997%	26	99.99941%
3	99.9989%	11	99.99942%	19	99.99988%	27	99.99992%
4	99.99921%	12	99.9989%	20	99.99987%	28	99.99986%
5	99.9982%	13	99.99926%	21	99.99976%	29	99.99981%
6	99.99924%	14	99.999904%	22	99.99969%	30	99.999903%
7	99.9995%	15	99.99972%	23	99.99904%	31	99.99954%
8	99.99976%	16	99.9996%	24	99.99976%	32	99.99951%

-PACTOOCKET.COM I hereby certify that the foregoing statements are true and correct to the best of my knowledge, information, and belief.

Vesley Pegder

Wesley Pegden 11/29/21

## EXHIBIT J



I, John Anthony Balla, hereby state that I am a Plaintiff in the above-titled action. I am a digital marketing strategist residing in Raleigh, North Carolina. My residence was located within District 4 under the 2016 Plan and is now located within District 5 under the 2021 Plan. I am a registered Democrat and have consistently voted for Democratic candidates for the U.S. House of Representatives.

John Anthony Balla

Sworn and subscribed before me this the 10 day of November, 2021.

Notary Public: Name: My commission explires: ANGEL FRINK NOTARY PUBLIC WAKE County North Carolina My Commission Expires MAY 2, 2026

## EXHIBIT K



I, Kathleen Barnes, hereby state that I am a Plaintiff in the above-titled action. I am the owner of a small publishing company residing in Brevard, North Carolina. My residence was located within Congressional District 11 under the 2016 Plan and is now located within District 14 under the 2021 Plan. I am a registered Democrat and have consistently voted for Democratic candidates for the U.S. House of Representatives.

Gec Kathleen Barnes

Sworn and subscribed before me this the  $10^{4}$ day of November, 2021. Notary Public: Name: Ó Q 100 My commission expires: Lno JAMIE C. WALL Notary Public - North Carolina Buncombe County My Commission Expires Jun 30, 2025

## EXHIBIT L



I, Virginia Walters Brien, hereby state that I am a Plaintiff in the above-titled action. I am a sales manager residing in Charlotte, North Carolina. My residence was located within Congressional District 12 under the 2016 Plan and is now located within District 9 under the 2021 Plan. I am a registered unaffiliated voter and have consistently voted for Democratic candidates for the U.S. House of Representatives.

Unguna Walter Bre Virginia Walters Brien

Sworn and subscribed before me this the  $\bigcirc Q$  day of November, 2021.



Notary Public: Michel Name:

My commission expires: <u>August 22,202</u>3

## EXHIBIT M



I, David Dwight Brown, hereby state that I am a Plaintiff in the above-titled action. I am a retired computer systems analyst residing in Greensboro, North Carolina. My residence was located within Congressional District 13 under the 2016 Plan and is now located within District 11 under the 2021 Plan. I am a registered Democrat and have consistently voted for Democratic candidates for the U.S. House of Representatives.

David Dwight Brown

Sworn and subscribed before me this the 12 day of November, 2021.

KATIE MARIE GRITTON Notary Public - North Carolina Guilford County My Commission Expires November 6, 2024

Notary Public:

Name: Katie arie (

My commission expires: November 6, 2024

## EXHIBIT N



I, Gettys Cohen Jr., hereby state that I am a Plaintiff in the above-titled action. I am a dentist residing in Smithfield, North Carolina. My residence was located within Congressional District 7 under the 2016 Plan and is now located within District 4 under the 2021 Plan. I am a registered Democrat and have consistently voted for Democratic candidates for the U.S. House of Representatives.

Gettys Cohen J

Sworn and subscribed before me this the <u>10</u> day of November, 2021.

Notary Public ANT NIXON OR NOTARY PUBLIC JOHNSTON COUNTY, N.C. Name: -22 My Commission Expires My commission expires: 4-8-22

# EXHIBIT O

 $\mathbf{n}$ 

I, Richard R. Crews, hereby state that I am a Plaintiff in the above-titled action. I am a retired stockbroker residing in Newland, North Carolina. My residence was located within Congressional District 5 under the 2016 Plan and is now located within District 14 under the 2021 Plan. I am a registered Democrat and have consistently voted for Democratic candidates for the U.S. House of Representatives.

Richard R. Crews

Sworn and subscribed before me this the  $12^{H}$  day of November, 2021.



Send to: SAM. CALLAHANCE ARNoldporter. Com

## EXHIBIT P



I, Rebecca Harper, hereby state that I am a Plaintiff in the above-titled action. I am a real estate agent residing in Cary, North Carolina. My residence was located within Congressional District 2 under the 2016 Plan and is now located within District 6 under the 2021 Plan. I am a registered Democrat and have consistently voted for Democratic candidates for the U.S. House of Representatives.

Rebecca Harper

Sworn and subscribed before me this the  $\underline{nt_1}$  day of November, 2021.

THERESA BAGLEY NOTARY PUBLIC WAKE COUNTY, N.C. My Commission Expires 12.7.202

Notary Public: Name:

My commission expires: 12.7.2024

Electronically Filed 2021-11-30 14:26:29

## EXHIBIT Q



I, Amy Clare Oseroff, hereby state that I am a Plaintiff in the above-titled action. I am a retired teacher residing in Greenville, North Carolina. My residence was located within Congressional District 1 under the 2016 Plan and remains in District 1 under the 2021 Plan. I am a registered Democrat and have consistently voted for Democratic candidates for the U.S. House of Representatives.

lare Amy Clare Oseroff





# EXHIBIT R



I, Mark S. Peters, hereby state that I am a Plaintiff in the above-titled action. I am a retired physician assistant residing in Fletcher, North Carolina. My residence was located within Congressional District 10 under the 2016 Plan and is now located within District 14 under the 2021 Plan. I am registered as an unaffiliated voter and have consistently voted for Democratic candidates for the U.S. House of Representatives.

Mark S. Peters

Sworn and subscribed before me this the /2 day of November, 2021.



Malg.H. Rec. Notary Public:

Name: Molly 11. Rive

My commission expires:

## EXHIBIT S



I, Lily Nicole Quick, hereby state that I am a Plaintiff in the above-titled action. I am a homemaker residing in Greensboro, North Carolina. My residence was located within Congressional District 6 under the 2016 Plan and is now located within District 7 under the 2021 Plan. I am a registered Democrat and have consistently voted for Democratic candidates for the U.S. House of Representatives.

Nicole Quick

Sworn and subscribed before me this the  $\bigcup$  day of November, 2021.



# EXHIBIT T



I, Donald Rumph, hereby state that I am a Plaintiff in the above-titled action. I am an Army and Air Force combat veteran and retired registered nurse residing in Greenville, North Carolina. My residence was located within Congressional District 3 under the 2016 Plan and is now located within District 1 under the 2021 Plan. I am a registered Democrat and have consistently voted for Democratic candidates for the U.S. House of Representatives.

Sworn and subscribed before me this the  $\underline{U}$ day of November, 2021. Notary Public: Namet My commission expires: Diamonds A. Kornega Notary Public Pitt County, NC

## EXHIBIT U



I, Shawn Rush, hereby state that I am a Plaintiff in the above-titled action. I am a part owner of a marketing firm and a Meals on Wheels organizer residing in East Spencer, North Carolina. My residence was located within Congressional District 8 under the 2016 Plan and is now located within District 10 under the 2021 Plan. I am a registered Democrat and have consistently voted for Democratic candidates for the U.S. House of Representatives.

Shor I

Shawn Rush

Sworn and subscribed before me this the Aday of November, 2021.



PUBLIC Name: Alishk N. Byd Name: Alishk N. Byd My commission expires: 04/25/2022