

First Regular Session
Seventy-fourth General Assembly
STATE OF COLORADO

INTRODUCED

LLS NO. 23-0748.01 Pierce Lively x2059

HOUSE BILL 23-1170

HOUSE SPONSORSHIP

DeGraaf, Bottoms

SENATE SPONSORSHIP

(None),

House Committees

State, Civic, Military, & Veterans Affairs

Senate Committees

A BILL FOR AN ACT

101 CONCERNING THE USE OF DISTRIBUTED LEDGERS IN ELECTIONS, AND,
102 IN CONNECTION THEREWITH, ESTABLISHING REQUIREMENTS
103 FOR THE CREATION AND USE OF CAST VOTE RECORD, TALLY
104 STATUS REPORT, TOKEN ASSIGNMENT, AND VOTER ELIGIBILITY
105 STATUS DISTRIBUTED LEDGERS.

Bill Summary

(Note: This summary applies to this bill as introduced and does not reflect any amendments that may be subsequently adopted. If this bill passes third reading in the house of introduction, a bill summary that applies to the reengrossed version of this bill will be available at <http://leg.colorado.gov>.)

A distributed ledger is a permanent database that is consensually shared, synchronized, and publicly accessible. A distributed ledger allows

Shading denotes HOUSE amendment. Double underlining denotes SENATE amendment.
Capital letters or bold & italic numbers indicate new material to be added to existing law.
Dashes through the words or numbers indicate deletions from existing law.

information to be entered into a publicly available common database from multiple locations at different times. The bill establishes a system for the use of distributed ledgers in elections.

In the case of an elector who votes in person:

- A vetting registrar, in the presence of a vetting registration observer team, verifies that the elector is eligible to vote, and updates the voter eligibility status distributed ledger to reflect this process;
- A token assignment registrar, in the presence of a token assignment observer team, assigns the elector an election token, which is a unique anonymous text identifier, and updates the token assignment status and voter eligibility status distributed ledgers to reflect the assignment;
- The elector completes the elector's ballot and the election token is attached to that ballot; and
- An election official ensures that the elector is provided with a copy of the elector's ballot and election token.

In the case of an elector who votes by mail:

- A vetting registrar, in the presence of a vetting registration observer team, notifies the elector that the elector's ballot has been received and will only be counted after the elector acknowledges the ballot's receipt;
- If the elector confirms the receipt of the elector's ballot with the vetting registrar, in the presence of the vetting registration observer team, the vetting registrar shall indicate this confirmation on a form attached to the ballot and update the voter eligibility status distributed ledger to reflect the confirmation; and
- A token assignment registrar, in the presence of a token assignment observer team, assigns the ballot an election token, which is a unique anonymous text identifier, and updates the token assignment status and voter eligibility status distributed ledgers to reflect the assignment.

Before any ballot is counted, it is verified, in the presence of a token assignment observer team, that a unique election token is attached to the ballot. Upon counting a ballot, unless the ballot is counted as part of a manual count, a cast vote record of the ballot must be created and entered into the cast vote record distributed ledger.

The public may access the various distributed ledgers described in the bill to confirm that the approach in the bill is followed, and that votes are counted accurately, and that the public may access a tally status report distributed ledger as votes are counted to track election results.

1 DISTRIBUTED LEDGER THAT CONSISTS OF CAST VOTE RECORDS.

2 (3) "DISTRIBUTED LEDGER" MEANS A PERMANENT DATABASE THAT
3 IS CONSENSUALLY SHARED AND SYNCHRONIZED ACROSS MULTIPLE
4 LOCATIONS AND IS PUBLICLY ACCESSIBLE. EACH RECORD IN A
5 DISTRIBUTED LEDGER SHALL BE ATTACHED TO THE IMMEDIATELY
6 PRECEDING RECORD BY WAY OF A ONE-WAY HASH FUNCTION EXPRESSED
7 AS A PREVIOUS HASH. THE GENERAL ASSEMBLY SHALL ENSURE THAT ALL
8 DISTRIBUTED LEDGERS ARE PUBLICLY AVAILABLE, EASILY SEARCHABLE,
9 ACCURATE, AND SECURE.

10 (4) "ELECTION TOKEN" MEANS A UNIQUE ANONYMOUS TEXT
11 IDENTIFIER ASSIGNED TO AN ELECTOR OR A BALLOT.

12 (5) "ONE-WAY HASH FUNCTION" MEANS A MATHEMATICAL
13 FUNCTION THAT TAKES A VARIABLE-LENGTH INPUT STRING AND CONVERTS
14 IT INTO A FIXED-LENGTH TEXT SEQUENCE THAT IS COMPUTATIONALLY
15 DIFFICULT TO INVERT. AT A MINIMUM, THE ONE-WAY HASH FUNCTION
16 MUST BE A SECURE HASH ALGORITHM TWO HUNDRED FIFTY-SIX ONE-WAY
17 CRYPTOGRAPHIC HASH FUNCTION.

18 (6) "PREVIOUS HASH" MEANS A UNIQUE HASH GENERATED BY THE
19 ONE-WAY HASH FUNCTION FOR A DISTRIBUTED LEDGER.

20 (7) "TALLY STATUS REPORT DISTRIBUTED LEDGER" MEANS A
21 DISTRIBUTED LEDGER FOR EACH OFFICE, BALLOT ISSUE, OR BALLOT
22 QUESTION THAT IS ON THE BALLOT AND THAT IS UPDATED AS VOTES ARE
23 COUNTED DURING AN ELECTION WITH ENTRIES THAT INCLUDE:

24 (a) WHEN THE ENTRY IS UPDATED, EXPRESSED IN COORDINATED
25 UNIVERSAL TIME;

26 (b) THE MOST CURRENT VOTE COUNTS FOR THE RELEVANT OFFICE,
27 BALLOT ISSUE, OR BALLOT QUESTION WHEN THE ENTRY IS UPDATED; AND

1 (c) A PREVIOUS HASH.

2 (8) "TOKEN ASSIGNMENT OBSERVER TEAM" MEANS AT LEAST TWO
3 INDIVIDUALS, ONE OF WHOM IS AFFILIATED WITH THE STATE'S LARGEST
4 POLITICAL PARTY AND ONE OF WHOM IS AFFILIATED WITH THE STATE'S
5 SECOND LARGEST POLITICAL PARTY, WHO SHALL ENSURE THAT ELECTORS
6 AND TOKEN ASSIGNMENT REGISTRARS COMPLY WITH THE REQUIREMENTS
7 OF THIS PART 11.

8 (9) "TOKEN ASSIGNMENT REGISTRAR" MEANS AN INDIVIDUAL WHO
9 PERFORMS THE DUTIES ENUMERATED IN SECTIONS 1-7-1103 (2), 1-7-1104
10 (3), AND 1-7-1104 (4) WHILE BEING OBSERVED BY A TOKEN ASSIGNMENT
11 OBSERVER TEAM. A TOKEN ASSIGNMENT REGISTRAR MAY BE AN ELECTION
12 OFFICIAL.

13 (10) "TOKEN ASSIGNMENT STATUS DISTRIBUTED LEDGER" MEANS
14 A DISTRIBUTED LEDGER THAT INCLUDES AN ENTRY WITH THE FOLLOWING
15 FOR EACH ELECTION TOKEN:

16 (a) A UNIQUE IDENTIFIER FOR THE ENTRY;

17 (b) THE ELECTION TOKEN;

18 (c) THE NAME OF THE TOKEN ASSIGNMENT REGISTRAR WHO ISSUED
19 THE ELECTION TOKEN;

20 (d) THE GLOBAL POSITIONING SYSTEM LOCATION, ADDRESS, OR
21 PRECINCT WHERE THE TOKEN ASSIGNMENT REGISTRAR ISSUED THE
22 ELECTION TOKEN;

23 (e) A PREVIOUS HASH; AND

24 (f) IF THE ELECTOR SO CHOOSES, A SECURE PERSONAL
25 IDENTIFICATION NUMBER.

26 (11) "UNIQUE VOTER IDENTIFIER" MEANS THE UNIQUE IDENTIFIER
27 ASSIGNED TO EACH LEGALLY REGISTERED VOTER PURSUANT TO SECTION

1 1-2-301 (1).

2 (12) "VETTING REGISTRAR" MEANS AN INDIVIDUAL WHO PREFORMS
3 THE DUTIES ENUMERATED IN SECTIONS 1-7-1103 (1) AND 1-7-1104 (2)
4 WHILE BEING OBSERVED BY A VETTING REGISTRATION OBSERVER TEAM. A
5 VETTING REGISTRAR MAY BE AN ELECTION OFFICIAL.

6 (13) "VETTING REGISTRATION OBSERVER TEAM" MEANS AT LEAST
7 TWO INDIVIDUALS, ONE OF WHOM IS AFFILIATED WITH THE STATE'S
8 LARGEST POLITICAL PARTY AND ONE OF WHOM IS AFFILIATED WITH THE
9 STATE'S SECOND LARGEST POLITICAL PARTY, WHO SHALL ENSURE THAT
10 ELECTORS AND VOTER REGISTRARS COMPLY WITH THE REQUIREMENTS OF
11 THIS PART 11.

12 (14) "VOTING ELIGIBILITY STATUS DISTRIBUTED LEDGER" MEANS
13 A DISTRIBUTED LEDGER THAT INCLUDES THE FOLLOWING ENTRIES:

14 (a) FOR EACH ELECTOR WHO CASTS A VOTE IN PERSON IN
15 ACCORDANCE WITH SECTION 1-7-1103, THE FOLLOWING:

16 (I) A UNIQUE IDENTIFIER FOR THE ENTRY;

17 (II) THE ELECTOR'S UNIQUE VOTER IDENTIFIER;

18 (III) THE GLOBAL POSITIONING SYSTEM LOCATION, ADDRESS, OR
19 PRECINCT WHERE A RECEIVING JUDGE ASSIGNED THE VOTING REGISTRAR
20 TO THE ELECTOR;

21 (IV) WHETHER THE ELECTOR IS AT THE SAME LOCATION AS THE
22 VOTING REGISTRAR WHEN THE VOTING REGISTRAR DETERMINES THAT THE
23 ELECTOR MAY ENTER THE IMMEDIATE VOTING AREA IN ACCORDANCE WITH
24 SECTION 1-7-110;

25 (V) THE NAME OF THE VOTING REGISTRAR WHO DETERMINES THAT
26 THE ELECTOR MAY ENTER THE IMMEDIATE VOTING AREA IN ACCORDANCE
27 WITH SECTION 1-7-110;

1 (VI) WHEN THE VOTING REGISTRAR BEGINS TO DETERMINE
2 WHETHER THE ELECTOR MAY ENTER THE IMMEDIATE VOTING AREA IN
3 ACCORDANCE WITH SECTION 1-7-110, EXPRESSED IN COORDINATED
4 UNIVERSAL TIME;

5 (VII) WHEN THE VOTING REGISTRAR DETERMINES THAT THE
6 ELECTOR MAY ENTER THE IMMEDIATE VOTING AREA IN ACCORDANCE WITH
7 SECTION 1-7-110, EXPRESSED IN COORDINATED UNIVERSAL TIME;

8 (VIII) WHEN THE TOKEN ASSIGNMENT REGISTRAR ISSUES THE
9 ELECTOR AN ELECTION TOKEN, EXPRESSED IN COORDINATED UNIVERSAL
10 TIME; AND

11 (IX) A PREVIOUS HASH.

12 (b) FOR EACH ELECTOR WHO CASTS A VOTE BY MAIL IN
13 ACCORDANCE WITH SECTION 1-7-1104 THE FOLLOWING:

14 (I) A UNIQUE IDENTIFIER FOR THE ENTRY;

15 (II) THE ELECTOR'S UNIQUE VOTER IDENTIFIER;

16 (III) THE GLOBAL POSITIONING SYSTEM LOCATION, ADDRESS, OR
17 PRECINCT WHERE AN ELECTION OFFICIAL ASSIGNED THE VOTING
18 REGISTRAR TO THE ELECTOR;

19 (IV) WHETHER THE ELECTOR IS AT THE SAME LOCATION AS THE
20 VOTING REGISTRAR WHEN THE VOTING REGISTRAR RECEIVES
21 CONFIRMATION PURSUANT TO SECTION 1-7-1104 (2)(b) FROM THE
22 ELECTOR THAT THE ELECTOR'S BALLOT HAS BEEN RECEIVED;

23 (V) THE NAME OF THE VOTING REGISTRAR WHO RECEIVES
24 CONFIRMATION PURSUANT TO SECTION 1-7-1104 (2)(b) FROM THE
25 ELECTOR THAT THE ELECTOR'S BALLOT HAS BEEN RECEIVED;

26 (VI) WHEN THE VETTING REGISTRAR NOTIFIED THE ELECTOR,
27 PURSUANT TO SECTION 1-7-1104 (2)(a), THAT THE ELECTOR'S BALLOT HAS

1 BEEN RECEIVED, EXPRESSED IN COORDINATED UNIVERSAL TIME;

2 (VII) WHEN THE VETTING REGISTRAR RECEIVES CONFIRMATION
3 PURSUANT TO SECTION 1-7-1104 (2)(b) FROM THE ELECTOR THAT THE
4 ELECTOR'S BALLOT HAS BEEN RECEIVED, EXPRESSED IN COORDINATED
5 UNIVERSAL TIME;

6 (VIII) WHEN THE TOKEN ASSIGNMENT REGISTRAR ASSOCIATES AN
7 ELECTION TOKEN WITH THE ELECTOR'S BALLOT, EXPRESSED IN
8 COORDINATED UNIVERSAL TIME; AND

9 (IX) A PREVIOUS HASH.

10 **1-7-1103. Election integrity protocol for in-person voting.**

11 (1) (a) UPON AN ELECTOR ARRIVING AT A POLLING LOCATION, AN
12 ELECTION JUDGE SHALL ASSIGN THAT ELECTOR TO A VETTING
13 REGISTRATION OBSERVER TEAM AND A VOTING REGISTRAR. THE ELECTOR'S
14 ASSIGNED VETTING REGISTRATION OBSERVER TEAM SHALL ESCORT THE
15 ELECTOR TO THE ELECTOR'S ASSIGNED VOTING REGISTRAR.

16 (b) THE ELECTOR AND THE ELECTOR'S ASSIGNED VOTING
17 REGISTRAR SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 1-7-110
18 WHILE BEING OBSERVED BY A VETTING REGISTRATION OBSERVER TEAM.

19 (c) UPON DETERMINING THAT AN ELECTOR MAY ENTER THE
20 IMMEDIATE VOTING AREA IN ACCORDANCE WITH SECTION 1-7-110, THE
21 VOTING REGISTRAR SHALL, IN THE PRESENCE OF A VETTING REGISTRATION
22 OBSERVER TEAM, UPDATE THE VOTER ELIGIBILITY STATUS DISTRIBUTED
23 LEDGER TO INCLUDE AN ENTRY WITH THE FOLLOWING:

24 (I) A UNIQUE IDENTIFIER FOR THE ENTRY;

25 (II) THE ELECTOR'S UNIQUE VOTER IDENTIFIER;

26 (III) THE GLOBAL POSITIONING SYSTEM LOCATION, ADDRESS, OR
27 PRECINCT WHERE A RECEIVING JUDGE ASSIGNED THE VOTING REGISTRAR

1 TO THE ELECTOR;

2 (IV) WHETHER THE ELECTOR IS AT THE SAME LOCATION AS THE
3 VOTING REGISTRAR WHEN THE VOTING REGISTRAR DETERMINES THAT THE
4 ELECTOR MAY ENTER THE IMMEDIATE VOTING AREA IN ACCORDANCE WITH
5 SECTION 1-7-110;

6 (V) THE NAME OF THE VOTING REGISTRAR WHO DETERMINES THAT
7 THE ELECTOR MAY ENTER THE IMMEDIATE VOTING AREA IN ACCORDANCE
8 WITH SECTION 1-7-110;

9 (VI) WHEN THE VOTING REGISTRAR BEGINS TO DETERMINE
10 WHETHER THE ELECTOR MAY ENTER THE IMMEDIATE VOTING AREA IN
11 ACCORDANCE WITH SECTION 1-7-110, EXPRESSED IN COORDINATED
12 UNIVERSAL TIME; AND

13 (VII) WHEN THE VOTING REGISTRAR DETERMINES THAT THE
14 ELECTOR MAY ENTER THE IMMEDIATE VOTING AREA IN ACCORDANCE WITH
15 SECTION 1-7-110, EXPRESSED IN COORDINATED UNIVERSAL TIME.

16 (d) AFTER UPDATING THE VOTER ELIGIBILITY STATUS DISTRIBUTED
17 LEDGER, THE VOTING REGISTRAR SHALL ASSIGN THE ELECTOR TO A TOKEN
18 ASSIGNMENT OBSERVER TEAM AND A TOKEN ASSIGNMENT REGISTRAR.

19 (2) (a) THE ELECTOR'S ASSIGNED TOKEN ASSIGNMENT OBSERVER
20 TEAM SHALL ESCORT THE ELECTOR TO THE ASSIGNED TOKEN ASSIGNMENT
21 REGISTRAR.

22 (b) THE ELECTOR'S ASSIGNED TOKEN ASSIGNMENT REGISTRAR
23 SHALL ISSUE THE ELECTOR AN ELECTION TOKEN WHILE BEING OBSERVED
24 BY THE ELECTOR'S ASSIGNED TOKEN ASSIGNMENT OBSERVER TEAM. THE
25 TOKEN ASSIGNMENT OBSERVER TEAM SHALL ENSURE THAT THE TOKEN
26 ASSIGNMENT REGISTRAR ISSUES THE ELECTOR AN ELECTION TOKEN IN AN
27 ANONYMOUS MANNER.

1 (c) UPON ISSUING AN ELECTOR AN ELECTION TOKEN, WHILE IN THE
2 PRESENCE OF THE TOKEN ASSIGNMENT OBSERVER TEAM, THE TOKEN
3 ASSIGNMENT REGISTRAR SHALL:

4 (I) UPDATE THE TOKEN ASSIGNMENT STATUS DISTRIBUTED LEDGER
5 TO INCLUDE AN ENTRY WITH THE FOLLOWING:

6 (A) A UNIQUE IDENTIFIER FOR THE ENTRY;

7 (B) THE ELECTION TOKEN THAT THE TOKEN ASSIGNMENT
8 REGISTRAR ISSUED TO THE ELECTOR;

9 (C) THE NAME OF THE TOKEN ASSIGNMENT REGISTRAR WHO
10 ISSUED THE ELECTION TOKEN;

11 (D) THE GLOBAL POSITIONING SYSTEM LOCATION, ADDRESS, OR
12 PRECINCT WHERE THE TOKEN ASSIGNMENT REGISTRAR ISSUED THE
13 ELECTION TOKEN;

14 (E) A PREVIOUS HASH; AND

15 (F) IF THE ELECTOR SO CHOOSES, A SECURE PERSONAL
16 IDENTIFICATION NUMBER; AND

17 (II) UPDATE THE VOTING ELIGIBILITY STATUS DISTRIBUTED
18 LEDGER TO INCLUDE:

19 (A) WHEN THE TOKEN ASSIGNMENT REGISTRAR ISSUED THE
20 ELECTOR AN ELECTION TOKEN, EXPRESSED IN COORDINATED UNIVERSAL
21 TIME; AND

22 (B) A PREVIOUS HASH.

23 (d) AFTER A TOKEN ASSIGNMENT REGISTRAR ISSUES AN ELECTOR
24 AN ELECTION TOKEN, THE ELECTOR MAY ENTER THE IMMEDIATE VOTING
25 AREA AND COMPLETE THE ELECTOR'S BALLOT.

26 (3) (a) IF AN ELECTOR IS ISSUED A PAPER BALLOT IN ACCORDANCE
27 WITH SECTION 1-7-304, ONCE THE ELECTOR HAS COMPLETED THE

1 ELECTOR'S BALLOT AND IS READY TO VOTE, THE ELECTOR SHALL LEAVE
2 THE VOTING BOOTH AND APPROACH A TOKEN ASSIGNMENT REGISTRAR.
3 THE ELECTOR SHALL, IN FULL VIEW OF A TOKEN ASSIGNMENT OBSERVER
4 TEAM AND A TOKEN ASSIGNMENT REGISTRAR, ATTACH THE ELECTOR'S
5 ELECTION TOKEN TO THE ELECTOR'S BALLOT AND DEPOSIT BOTH IN THE
6 BALLOT BOX.

7 (b) IF AN ELECTOR CASTS A VOTE WITH ELECTRONIC VOTING
8 EQUIPMENT IN ACCORDANCE WITH SECTIONS 1-7-503 (1) AND (2), ONCE
9 THE ELECTOR HAS PLACED THE ELECTOR'S BALLOT IN A PRIVACY
10 ENVELOPE, THE ELECTOR SHALL LEAVE THE VOTING BOOTH AND
11 APPROACH A TOKEN ASSIGNMENT REGISTRAR. THE ELECTOR SHALL, IN
12 FULL VIEW OF A TOKEN ASSIGNMENT OBSERVER TEAM AND A TOKEN
13 ASSIGNMENT REGISTRAR, ATTACH THE ELECTOR'S ELECTION TOKEN TO THE
14 ELECTOR'S BALLOT, AND DEPOSIT THE BALLOT OR BALLOT CARD WITH THE
15 ATTACHED ELECTION TOKEN IN THE BALLOT BOX WITH THE OFFICIAL
16 ENDORSEMENT ON THE BALLOT OR BALLOT CARD FACING UPWARD.

17 (c) IF AN ELECTOR CASTS A VOTE IN A MANNER OTHER THAN THOSE
18 DESCRIBED IN SUBSECTIONS (3)(a) AND (3)(b) OF THIS SECTION, THE
19 COUNTY CLERK AND RECORDER SHALL ENSURE THAT THERE IS A METHOD
20 FOR THE ELECTOR TO ATTACH THE ELECTOR'S ELECTION TOKEN TO THE
21 ELECTOR'S BALLOT OR OTHERWISE ASSOCIATE THE ELECTOR'S TOKEN WITH
22 THE ELECTOR'S BALLOT AND FOR AN ELECTRONIC ENTRY CAST VOTE
23 RECORD TO BE ADDED TO THE CAST VOTE RECORD DISTRIBUTED LEDGER.
24 THE ELECTOR SHALL FOLLOW THE METHOD PRESCRIBED BY THE COUNTY
25 CLERK AND RECORDER.

26 (d) IF AN ELECTOR IS UNABLE TO ATTACH AN ELECTION TOKEN TO
27 A BALLOT OR BALLOT CARD IN ACCORDANCE WITH THIS SUBSECTION (3),

1 A TOKEN ASSIGNMENT REGISTRAR MAY ATTACH THE ELECTION TOKEN TO
2 THE BALLOT OR BALLOT CARD FOR THE ELECTOR SO LONG AS THE TOKEN
3 ASSIGNMENT REGISTRAR DOES SO IN FULL VIEW OF A TOKEN ASSIGNMENT
4 OBSERVER TEAM.

5 (4) AN ELECTION OFFICIAL SHALL ENSURE THAT EVERY ELECTOR
6 WHO CASTS A BALLOT IN ACCORDANCE WITH THIS SECTION IS PROVIDED
7 WITH A COPY OF THE ELECTOR'S BALLOT AND ELECTION TOKEN BEFORE
8 THE ELECTOR LEAVES THE POLLING LOCATION. A VETTING REGISTRATION
9 OBSERVER TEAM OR A TOKEN ASSIGNMENT OBSERVER TEAM SHALL
10 ENSURE THAT THIS PROCESS MAINTAINS THE ANONYMITY OF THE
11 ELECTOR'S BALLOT AND ELECTION TOKEN.

12 **1-7-1104. Election integrity protocols for mail ballot voting.**

13 (1) UPON THE RECEIPT OF A MAIL BALLOT, A RECEIVING JUDGE SHALL
14 ASSIGN THE MAIL BALLOT TO A VETTING REGISTRATION OBSERVER TEAM
15 AND A VETTING REGISTRAR.

16 (2) (a) AFTER A RECEIVING JUDGE HAS VERIFIED THAT AN
17 ELECTOR'S SELF-AFFIRMATION ON THE RETURN ENVELOPE OF A MAIL
18 BALLOT IS VALID IN ACCORDANCE WITH SECTION 1-7.5-204, BUT PRIOR TO
19 OPENING THE MAIL BALLOT, WHILE IN THE PRESENCE OF A VETTING
20 REGISTRATION OBSERVER TEAM, THE VETTING REGISTRAR SHALL NOTIFY
21 THE ELECTOR THAT THE ELECTOR'S BALLOT HAS BEEN RECEIVED AND WILL
22 ONLY BE COUNTED AFTER THE ELECTOR ACKNOWLEDGES THE MAIL
23 BALLOT'S RECEIPT.

24 (b) ONCE THE VETTING REGISTRAR, WHILE IN THE PRESENCE OF
25 THE VETTING REGISTRATION OBSERVER TEAM, RECEIVES CONFIRMATION
26 FROM THE ELECTOR THAT THE ELECTOR'S BALLOT HAS BEEN RECEIVED,
27 THE VETTING REGISTRAR SHALL SIGN A FORM INDICATING THAT THE

1 ELECTOR CONFIRMED THE RECEIPT OF THE BALLOT AND THAT A TOKEN
2 ASSIGNMENT REGISTRAR MAY ASSIGN AN ELECTION TOKEN TO THE
3 BALLOT.

4 (c) THE VETTING REGISTRAR SHALL, IN THE PRESENCE OF A
5 VETTING REGISTRATION OBSERVER TEAM, UPDATE THE VOTER ELIGIBILITY
6 STATUS DISTRIBUTED LEDGER TO INCLUDE AN ENTRY WITH THE
7 FOLLOWING:

8 (I) A UNIQUE IDENTIFIER FOR THE ENTRY;

9 (II) THE ELECTOR'S UNIQUE VOTER IDENTIFIER;

10 (III) THE GLOBAL POSITIONING SYSTEM LOCATION, ADDRESS, OR
11 PRECINCT OF THE VOTING REGISTRAR WHERE A RECEIVING JUDGE
12 ASSIGNED THE VOTING REGISTRAR TO THE ELECTOR;

13 (IV) WHETHER THE ELECTOR IS AT THE SAME LOCATION AS THE
14 VOTING REGISTRAR WHEN THE VOTING REGISTRAR RECEIVES
15 CONFIRMATION PURSUANT TO SUBSECTION (2)(b) OF THIS SECTION FROM
16 THE ELECTOR THAT THE ELECTOR'S BALLOT HAS BEEN RECEIVED;

17 (V) THE NAME OF THE VETTING REGISTRAR WHO RECEIVED
18 CONFIRMATION PURSUANT TO SUBSECTION (2)(b) OF THIS SECTION FROM
19 THE ELECTOR THAT THE ELECTOR'S BALLOT HAS BEEN RECEIVED;

20 (VI) WHEN THE VETTING REGISTRAR NOTIFIED THE ELECTOR
21 PURSUANT TO SUBSECTION (2)(a) OF THIS SECTION THAT THE ELECTOR'S
22 BALLOT HAS BEEN RECEIVED, EXPRESSED IN COORDINATED UNIVERSAL
23 TIME; AND

24 (VII) WHEN THE VETTING REGISTRAR RECEIVES CONFIRMATION
25 PURSUANT TO SUBSECTION (2)(b) OF THIS SECTION FROM THE ELECTOR
26 THAT THE ELECTOR'S BALLOT HAS BEEN RECEIVED, EXPRESSED IN
27 COORDINATED UNIVERSAL TIME.

1 (3) AFTER RECEIVING A BALLOT WITH THE SIGNED FORM
2 DESCRIBED IN SUBSECTION (2)(b) OF THIS SECTION, A TOKEN ASSIGNMENT
3 REGISTRAR SHALL, WHILE IN THE PRESENCE OF A TOKEN ASSIGNMENT
4 OBSERVER TEAM, ASSIGN AN ELECTION TOKEN TO THE BALLOT. THE TOKEN
5 ASSIGNMENT OBSERVER TEAM SHALL ENSURE THAT THE TOKEN
6 ASSIGNMENT REGISTRAR ASSIGNS THE ELECTION TOKEN TO THE BALLOT IN
7 AN ANONYMOUS MANNER.

8 (4) UPON ASSIGNING AN ELECTION TOKEN TO A BALLOT, IN THE
9 PRESENCE OF A TOKEN ASSIGNMENT OBSERVER TEAM, THE TOKEN
10 ASSIGNMENT REGISTRAR SHALL:

11 (a) UPDATE THE TOKEN ASSIGNMENT STATUS DISTRIBUTED LEDGER
12 TO INCLUDE AN ENTRY WITH THE FOLLOWING:

13 (I) A UNIQUE IDENTIFIER FOR THE ENTRY;

14 (II) THE ELECTION TOKEN THAT THE TOKEN ASSIGNMENT
15 REGISTRAR ASSIGNED TO THE BALLOT;

16 (III) THE NAME OF THE TOKEN ASSIGNMENT REGISTRAR WHO
17 ASSIGNED THE ELECTION TOKEN;

18 (IV) THE GLOBAL POSITIONING SYSTEM LOCATION, ADDRESS, OR
19 PRECINCT WHERE THE TOKEN ASSIGNMENT REGISTRAR ASSIGNED THE
20 ELECTION TOKEN;

21 (V) A PREVIOUS HASH; AND

22 (VI) IF THE ELECTOR SO CHOOSES, A SECURE PERSONAL
23 IDENTIFICATION NUMBER; AND

24 (b) UPDATE THE VOTING ELIGIBILITY STATUS DISTRIBUTED LEDGER
25 TO INCLUDE:

26 (I) WHEN THE TOKEN ASSIGNMENT REGISTRAR ASSOCIATES AN
27 ELECTION TOKEN WITH THE ELECTOR'S BALLOT, EXPRESSED IN

1 COORDINATED UNIVERSAL TIME; AND

2 (II) A PREVIOUS HASH.

3 **1-7-1105. Election integrity protocol for counting ballots.**

4 (1) BEFORE ANY BALLOT IS COUNTED, IT MUST BE VERIFIED, IN THE
5 PRESENCE OF A TOKEN ASSIGNMENT OBSERVER TEAM, THAT A UNIQUE
6 ELECTION TOKEN IS ATTACHED TO THE BALLOT.

7 (2) (a) UPON THE COUNTING OF A BALLOT, UNLESS THE BALLOT IS
8 COUNTED AS PART OF A MANUAL COUNT, A CAST VOTE RECORD OF THE
9 BALLOT MUST BE CREATED AND ENTERED INTO THE CAST VOTE RECORD
10 DISTRIBUTED LEDGER.

11 (b) IF A MAIL BALLOT IS COUNTED AS A PART OF A MANUAL COUNT,
12 A CAST VOTE RECORD DOES NOT HAVE TO BE CREATED FOR THE MAIL
13 BALLOT, BUT THE TALLY STATUS REPORT DISTRIBUTED LEDGER MAY BE
14 UPDATED MANUALLY.

15 **1-7-1106. Vote dissemination.** (1) EVERY COUNTY CLERK AND
16 RECORDER SHALL ADOPT A VOTE DISSEMINATION POLICY THAT
17 DETERMINES WHEN THE DISTRIBUTED LEDGERS ASSOCIATED WITH AN
18 ELECTION WILL BECOME PUBLICLY AVAILABLE.

19 (2) THE COUNTY CLERK AND RECORDER SHALL ENSURE THAT THE
20 TALLY STATUS REPORT DISTRIBUTED LEDGER FOR EACH OFFICE, BALLOT
21 ISSUE, OR BALLOT QUESTION THAT IS INDICATED ON A BALLOT IN THE
22 COUNTY IS UPDATED AS SOON AND AS OFTEN AS IS PRACTICABLE AND IN
23 COMPLIANCE WITH THE VOTE DISSEMINATION POLICY DESCRIBED IN
24 SUBSECTION (1) OF THIS SECTION.

25 **1-7-1107. Applicability.** NOTWITHSTANDING ANY LAW TO THE
26 CONTRARY, THIS PART 11 APPLIES IN ALL ELECTIONS IN WHICH NOT ALL
27 BALLOTS ARE COUNTED BY HAND.

1 **SECTION 2.** In Colorado Revised Statutes, 1-7-304, **repeal** (2)
2 as follows:

3 **1-7-304. Manner of voting in person.** (2) ~~Each eligible elector~~
4 ~~who has completed the ballot and is ready to vote shall then leave the~~
5 ~~voting booth and approach the election judges having charge of the ballot~~
6 ~~box. The elector shall, in full view of the election judges, deposit it in the~~
7 ~~ballot box.~~

8 **SECTION 3.** In Colorado Revised Statutes, 1-7-503, **amend** (1);
9 and **repeal** (2) and (4) as follows:

10 **1-7-503. Manner of voting.** (1) Each eligible elector, upon
11 receiving a ballot, shall immediately proceed unaccompanied to one of
12 the voting booths provided. To cast a vote, the eligible elector shall
13 clearly fill the oval, connect the arrow, or otherwise appropriately mark
14 the name of the candidate or the names of the joint candidates of the
15 elector's choice for each office to be filled. In the case of a ballot issue,
16 the elector shall clearly fill the oval, connect the arrow, or otherwise
17 appropriately mark the appropriate place opposite the answer that the
18 elector desires to give. Before leaving the voting booth, the eligible
19 elector, without displaying the marks thereon, shall place the ballot in the
20 privacy envelope so that the contents of the ballot or ballot card are
21 concealed. ~~and shall place the envelope and the ballot or ballot card in the~~
22 ~~ballot box.~~

23 (2) ~~Each eligible elector who has prepared the ballot and is ready~~
24 ~~to vote shall then leave the voting booth and approach the election judges~~
25 ~~having charge of the ballot box. The eligible elector shall give his or her~~
26 ~~name to one of the election judges. The elector shall, in full view of the~~
27 ~~election judges, deposit the ballot or ballot card in the ballot box, with the~~

1 ~~official endorsement on the ballot or ballot card facing upward.~~

2 (4) ~~Notwithstanding any provision of subsection (1) or (2) of this~~
3 ~~section to the contrary, at a polling location at which a ballot marking~~
4 ~~device, as defined in section 1-5-702 (2.5), is available for accessible~~
5 ~~voting, the election judge in charge of the ballot box shall deposit every~~
6 ~~elector's ballot card in the ballot box.~~

7 **SECTION 4.** In Colorado Revised Statutes, 1-7.5-107, **amend** (6)
8 as follows:

9 **1-7.5-107. Procedures for conducting mail ballot election -**
10 **primary elections - first-time voters casting a mail ballot after having**
11 **registered by mail to vote - in-person request for ballot - repeal.**

12 (6) All deposited ballots shall be counted as provided in this article and
13 by rules promulgated by the secretary of state. A mail ballot is valid and
14 shall be counted only if it is returned in the return envelope, the
15 self-affirmation on the return envelope is signed and completed by the
16 eligible elector to whom the ballot was issued, THE ELIGIBLE ELECTOR
17 CONFIRMS THE RECEIPT OF THE MAIL BALLOT IN ACCORDANCE WITH
18 SECTION 1-7-1103 (2), and the information on the return envelope is
19 verified in accordance with subsection (5) of this section. Mail ballots
20 shall be counted in the same manner provided by section 1-7-307 for
21 counting paper ballots or section 1-7-507 for counting electronic ballots.
22 If the election official determines that an eligible elector to whom a
23 replacement ballot has been issued has returned more than one ballot, the
24 first ballot received is the accepted ballot. All candidates and issues for
25 which the voter is eligible to vote will be counted on the accepted ballot.
26 Rejected ballots shall be handled in the same manner as provided in
27 sections 1-7.5-204 and 1-7.5-210.

1 **SECTION 5. Act subject to petition - effective date.** This act
2 takes effect June 1, 2024; except that, if a referendum petition is filed
3 pursuant to section 1 (3) of article V of the state constitution against this
4 act or an item, section, or part of this act within the ninety-day period
5 after final adjournment of the general assembly, then the act, item,
6 section, or part will not take effect unless approved by the people at the
7 general election to be held in November 2024 and, in such case, will take
8 effect on the date of the official declaration of the vote thereon by the
9 governor.