

ENGINEERING

Tel 919.647.0000 Fax 919.715.0067

MIKE CAUSEY, INSURANCE COMMISSIONER & STATE FIRE MARSHAL BRIAN TAYLOR, CHIEF STATE FIRE MARSHAL

October 17, 2022

Mr. Kenneth Michael Womble Bond Dickinson (US) LLP One West Fourth Street Winston-Salem, NC 27101

RE: 2018 NC Building Code Section 1011.5.4 Dimensional uniformity

Mr. Michael:

This letter is in response to your request for formal interpretation dated September 28, 2022, that was received in NCDOI by email on September 28, 2022. Your request for formal interpretation states in part:

"Request No. 1: The NCDOI 9/23/22 Interpretation did not explain how stage steps W constitute a code compliant *Means of Egress* in contradiction to the NCDOI 1/6/22 Interpretation. Stage Steps W include adjacent risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (NC Bldg Code 1011.5.4). Are stage Steps W code compliant as a *Means of Egress*, as well as for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 2: The NCDOI 9/23/22 Interpretation did not render any interpretation as to code compliance regarding back stairway Steps A, G, H and I, because they were not included in the WCCC 8/02/22 Request for Interpretation (they were deemed non-code compliant in the NCDOI 9/23/22 Interpretation). At least one side of back stairway Steps A, G, H and I include stair runs with risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (including up to 7/8 inches). Are back stairway Steps A, G, H and I, code compliant as a *Means of Egress*, as well as for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 3: It appears the underlying basis of the WCCC 8/02/22 Request for Interpretation and the resultant NCDOI 9/23/22 Interpretation is only in regards to code compliance of the referenced steps *in the context of Means of Egress*. To the extent any of collective Steps A through W on the Project are not Means of Egress, for purposes of accessibility, general use by the public and otherwise, which, if any, risers and runs of steps are not code compliant based on Exhibit C to RCCC 12/16/21 Request for Interpretation – As-Built spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC (with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams)?

Remarks:

Code sections noted in this letter are referring to the 2018 edition of the NC Building Code unless otherwise noted.

Attachment A is comprised of the request for formal interpretation as well as all supporting information submitted with the request.

Code Analysis:

Means of egress from buildings or portions thereof shall comply with the provisions of Chapter 10 Means of Egress.

1001.3 Applicability. The general requirements specified in Sections 1003 through 1015 shall apply to all three elements of the *means of egress* system, in addition to those specific requirements for the *exit access*, the *exit* and the *exit discharge* detailed elsewhere in this chapter.

Chapter 2 defines relative terms related to egress as follows:

MEANS OF EGRESS. A continuous and unobstructed path of vertical and horizontal egress travel from any occupied portion of a building or structure to a *public way*. A means of egress consists of three separate and distinct parts: the *exit access*, the *exit* and the *exit discharge*.

EXIT ACCESS. That portion of a *means of egress* system that leads from any occupied portion of a building or structure to an *exit*.

EXIT. That portion of a *means of egress* system between the *exit access* and the *exit discharge* or *public way*. Exit components include exterior exit doors at the *level of exit discharge, interior exit stairways and ramps, exit passageways, exterior exit stairways* and *ramps* and *horizontal exits*.

EXIT DISCHARGE. That portion of a *means of egress* system between the termination of an *exit* and a *public way*.

[A] PUBLIC WAY. A street, alley or other parcel of land open to the outside air leading to a street, that has been deeded, dedicated or otherwise permanently appropriated to the public for public use and which has a clear width and height of not less than 10 feet (3048 mm).

Comments: These sections and definitions are the starting point for evaluating the minimum requirements for emergency evacuation of all occupants from buildings, portions thereof and sites to a safe location.

1028.4 Egress Courts. *Egress courts* serving as a portion of the *exit discharge* in the *means of egress* system shall comply with the requirements of Sections 1028.4.1 and 1028.4.2.

EGRESS COURT. A court or yard which provides access to a public way for one or more exits.

YARD. An open space, other than a *court*, unobstructed from the ground to the sky, except where specifically provided by this code, on the lot on which a building is situated.

Comments: Egress courts such as courts and yards are permitted by code to be used for exit discharge.

1018.1 General. Aisles and aisle accessways serving as a portion of the exit access in the means of egress system shall comply with the requirements of this section. Aisles or aisle accessways shall be provided from all occupied portions of the exit access that contain seats, tables, furnishings, displays and similar fixtures or equipment. The minimum width or required capacity of aisles shall be unobstructed.

Exception: Encroachments complying with Section 1005.7.

Comments: A yard can be utilized for exit discharge if the yard is at grade level and is not within the confines of an enclosed building. If exit discharge is accomplished from ends of each of the aisles and accessways, stairs A, G, H and I are no longer required to be used for exit access from the aisles.

Stair treads and risers of shall be of uniform shape and size.

1011.5.4 Dimensional Uniformity. *Stair* treads and risers shall be of uniform size and shape. The tolerance between the largest and smallest riser height or between the largest and smallest tread depth shall not exceed 3/8 inch (9.5 mm) in any *flight* of *stairs*. The greatest *winder* tread depth at the walkline within any *flight* of *stairs* shall not exceed the smallest by more than 3/8 inch (9.5 mm).

Exceptions:

- 1. *Stairways* connecting stepped *aisles* to cross *aisles* or concourses shall be permitted to comply with the dimensional nonuniformity in Section 1029.13.2.
- 2. Consistently shaped *winders*, complying with Section 1011.5, differing from rectangular treads in the same *flight* of *stairs*.
- 3. Nonuniform riser dimension complying with Section 1011.5.4.1.

STAIR. A change in elevation, consisting of one or more risers.

FLIGHT. A continuous run of rectangular treads, winders or combination thereof from one landing to another.

STAIRWAY. One or more flights of stairs, either exterior or interior, with the necessary landings and platforms connecting them, to form a continuous and uninterrupted passage from one level to another.

Comments: Stairways used for means of egress shall be uniform shape and size.

Conclusions: If stair W is intended to be used for means of egress, its stair treads and risers shall be of uniform shape and size as required by 1011.5.4. Since a code-compliant means of egress system is provided via each end of the seating rows to a yard at grade level, stairs A, G, H and I are considered landscape steps. Landscape steps are not required to comply with the means of egress requirements of the 2018 NC Building Code. As per this formal interpretation and the NCDOI Formal Interpretation dated 9/23/22, landscape steps A through N are not required to comply with the means of egress requirements of the 2018 NC Building Code. As per the NCDOI Formal Interpretation dated 9/23/22, steps P though V

are considered means of egress steps and shall comply with the means of egress requirements of the 2018 NC Building Code unless a barrier is provided to prevent use of those steps for egress from the stage.

Please call or email if you have comments or questions.

Sincerely,

cc:

B. Rittlinger

David B. Rittlinger, PE, LEED AP Chief Code Consultant NCDOI-OSFM Engineering & Codes Division

File Bridget Herring, Chair – BCC Mark Matheny, Vice-Chair - BCC Michael Ali, Chair, Commercial Super Committee – BCC Terence Friedman, Assistant Attorney General, Insurance Section - NCDOJ

ATTACHMENT A

womblebonddickinson.com

September 28, 2021

Via Electronic Mail Mike.causey@ncdoi.gov

Marshal Mike Causey Commissioner of Insurance Engineering Section of the North Carolina Department of Insurance 430 North Salisbury Street 1201 Mail Service Center Raleigh, NC 27699-1201



One West Fourth Street Winston-Salem, NC 27101

t: 336.721.3600 f: 336.721.3660

Kenneth R. Michael, Esquire Partner Direct Dial: 336-721-3644 E-mail: <u>Ken.Michael@wbd-us.com</u>

Re: Request for Formal Interpretation (N.C. Gen. Stats. § 160D-1127) Rowan Cabarrus Community College Outdoor Classroom Phase II (the "Project") 1333 S. Jake Alexander Blvd., Salisbury, NC

Commissioner Causey,

Womble Bond Dickinson is counsel for Rowan Cabarrus Community College ("RCCC"), submitting this second Request for Formal Interpretation ("RCCC 9/28/22 Request for Interpretation").

On August 2, 2022, W.C. Construction Company, LLC ("WCCC") submitted a Request for Formal Interpretation ("WCCC 8/02/22 Request for Interpretation") concerning the referenced Project, to which NCDOI issued its response on September 23, 2022 ("NCDOI 9/23/22 Interpretation") (see <u>Appendix</u> <u>#1</u>) concluding:

"Since a code-compliant *Means of Egress* system is provided via each end of the seating rows to a yard at grade level, stairs B thru F and J thru N are considered landscape steps. Landscape steps are not required to comply with the *Means of Egress* requirements of the 2018 NC Building Code. A code compliant *Means of Egress* system from the stage is provided at stairs O and W. With the addition of a barrier along the curved portion of the stage at stairs P thru V, egress from the stage is prevented from stairs P thru V. Since these steps are no longer used for egress, they become decorative steps and are not regulated by the 2018 NC Building code."

Therefore, in substance:

- Aisle Steps B through F and J through N are "landscape steps" that are not required to comply with the *Means of Egress* requirements of the 2018 NC Building Code
- Stage Steps O and W are a code compliant Means of Egress, and Stage Steps P through V with the addition of a barrier can become decorative steps that would not be regulated by the 2018 NC Building Code.

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Request No. 1: The NCDOI 9/23/22 Interpretation did not explain how stage Steps W constitute a code compliant Means of Egress in contradiction to the NCDOI 1/6/22 Interpretation. Stage Steps W include adjacent risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (NC Bldg Code § 1011.5.4). Are stage Steps W code compliant as a Means of Egress, as well as for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 2: The NCDOI 9/23/22 Interpretation did not render any interpretation as to code compliance regarding back stairway Steps A, G, H, and I, because they were not included in the WCCC 8/02/22 Request for Interpretation (they were deemed non-code compliant in the NCDOI 9/23/22 Interpretation). At least one side of back stairway Steps A, G, H, and I include stair runs with risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (including up to 7/8 inches). Are back stairway Steps A, G, H, and I, code compliant as a Means of Egress, as well as for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 3: It appears the underlying basis of the WCCC 8/02/22 Request for Interpretation and the resultant NCDOI 9/23/22 Interpretation is only in regards to code compliance of the referenced steps in the context of Means of Egress. To the extent any of collective Steps A through W on the Project are not Means of Egress, for purposes of accessibility, general use by the public and otherwise, which, if any, risers and

- 1. For back stairway Steps A, G, H and I the allowed maximum tolerance from the smallest to the greatest riser height is 3/8 inch (NC Bldg. Code § 1011.5.4). All of these are not compliant.
- 2. For aisle Steps B through F and J through N, the riser height uniformity tolerance is 3/16 inch. All of these are not compliant (NC Bldg. Code § 1029.13.2.2.1).
- 3. For stage Steps O through W, the allowed maximum tolerance from the smallest to the greatest riser height Stage Steps O and P are compliant.
 Stage Steps O P - is 3/8 inch (NC Bldg. Code § 1011.5.4).

 - Stage Steps Q, R and W are not compliant.
 - Stage Steps S, T and V are not compliant, but could be made compliant if the bottom riser is marked as required by Section 1011.5.4.1.
 - Stage Steps U are not compliant, but could be made compliant if the top riser is marked as required by Section 1011.5.4.1.

¹ Background. For some background, on December 16, 2021, Womble Bond Dickinson submitted on behalf of RCCC a Request for Formal Interpretation ("RCCC 12/16/21 Request for Interpretation") of the Rowan County Building Inspection Department's interpretation of the NC State Building Code relating to the as-built construction compliance of steps and stairs at the Rowan Cabarrus Community College Outdoor Classroom Phase II project in Salisbury, NC (see Attachment #A to Appendix #2). On January 6, 2022, NCDOI issued its response to RCCC 12/16/21 Request for Interpretation, in which NCDOI concluded ("NCDOI 1/6/22 Interpretation") (see Appendix #2) in substance the following (cross referencing Exhibit D to RCCC 12/16/21 Request for Interpretation - Location Key for Stair Runs labeling on the as-built spot elevation survey all the runs of stairs on the project with letters A-W):

On February 4, 2022, WCCC filed a Notice of Appeal of the NCDOI 1/6/22 Interpretation ("WCCC 2/4/22 Appeal") with the NC Building Code Council. As of the date of this RCCC 9/28/22 Request for Interpretation, the NC Building Code Council has not issued its ruling on the WCCC 2/4/22 Appeal.

Commissioner Mike Causey September 28, 2021 Page 3 of 25

runs of steps are not code compliant based on Exhibit C to RCCC 12/16/21 Request for Interpretation - Asbuilt spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC (with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams)?²

RCCC appreciates your consideration of the foregoing requests and thanks you in advance for your assistance. RCCC has been attempting to mitigate, complete and use for its intended purposes the subject Project since receiving the NCDOI 1/6/22 Interpretation over eight and a half months ago, but have been delayed by the WCCC 2/4/22 Appeal and subsequent WCCC 8/02/22 Request for Interpretation – both processes of which we acknowledge is within WCCC's rights albeit slow and belated. In this context, we respectfully request that anything NCDOI can do to expedite the processing of this RCCC 9/28/22 Request for Interpretation would be greatly appreciated.

Please do not hesitate to let us know if you need any additional documents or information. Thank you for your prompt attention to this matter.

Sincerely,

WOMBLE BOND DICKINSON (US) LLP

Kenneth R. Michael

KRM: kwb

cc: Terence Friedman, Esq., NCDOJ, counsel for NCDOJ, Tfriedman@ncdoj.gov Nathan Childs, Esq., NCDOJ, counsel for NC Building Code Council, nchilds@ncdoj.gov Thomas O'Kelly, Director, Rowan County Bldg Inspections, Thomas.okelly@rowancountync.gov Scott Lowder, Sr.Inspector, Rowan County Bldg Inspections, Jessie.Lowder@rowancountync.gov Jonathan Chamberlain, Chief Officer, RCCC, jonathan.chamberlain@rccc.edu Jim Atkinson, Project Manager, RCCC, jim.atkinson@rccc.edu Mark Henriques, Esq., counsel for RCCC, Mark Henriques@wbd-us.com James Bernier, Jr., Special Deputy Attorney General, NCDOJ, JBernier@ncdoj.gov Michael Ali, NC SCO, michael.ali@doa.nc.gov Jeff Hinkle, NC SCO Monitor, Jeffrey.Hinkle@doa.nc.gov Russell Killen, Esq., counsel for McAdams, russellkillen@parkerpoe.com Brian Darer, Esq., counsel for McAdams, briandarer@parkerpoe.com Nick Lowe, RLA, McAdams, nlowe@mcadamsco.com Robert Attardo, Esq., counsel for Labella, RAttardo@LaBellaPC.com Bryan Badeaux, Esq. Sr. Surety Claims Counsel, Philadelphia Insurance, Bryan Badeaux@phly.com Jeff Price, Esq., counsel for Philadelphia Insurance, jprice@manierherod.com Andrew Chapin, Esq., counsel for WC Construction, AChapin@cgspllc.com

² Please refer to separate attachment [4] to email transmitting this RCCC 9/28/22 Request for Interpretation for 2MB File of this Exhibit C.

Appendices: ³			
Appendix #1			(separate attachment to email) 2 Request for Interpretation Location Key for Stair Runs that identifies the runs of stairs on the projects with letters A-W.
Appendix #2:		•	separate attachment to email)
	Attachment A	RCCC 12/16/2 Exhibit A	 Request for Interpretation Inspection Worksheet (INSP-420557-2021) by Scott Lowder of the Rowan County Building Inspection Department, dated December 7, 2021;
		Exhibit B	December 15, 2021 11:44 AM clarification email from Thomas O'Kelly, Director of Rowan County Building Inspections;
		Exhibit C	As-built spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC, with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams; (separate attachment [4] to email transmitting RCCC 9/28/22 Request for Interpretation) and
		Exhibit D	Location Key for Stair Runs labeling on the as-built spot elevation survey all the runs of stairs on the project with letters A-W.
	Attachment B	Amphitheater S	eating Elevation, by McAdams, dated December 28, 2021

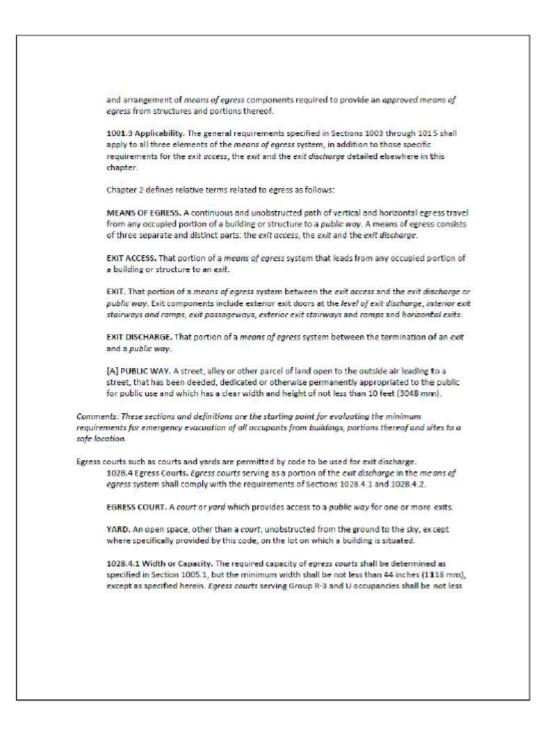
³ Note, most but not all the documents attached to Appendix #1 and Appendix #2 listed below are pasted into this letter on the following pages; however, with my email transmitting this RCCC 9/28/22 Request for Interpretation.

Commissioner Mike Causey September 28, 2021 Page 5 of 25

Appendix #1 NCDOI 9/23/22 Interpretation



Commissioner Mike Causey September 28, 2021 Page 6 of 25



Commissioner Mike Causey September 28, 2021 Page 7 of 25

than 36 inches (914 mm) in width. The required capacity and width of egress courts shall be unobstructed to a height of 7 feet (2134 mm). Exception: Encroachments complying with Section 1005.7. Where an egress court exceeds the minimum required width and the width of such egress court is then reduced along the path of exit travel, the reduction in width shall be gradual. The transition in width shall be affected by a guard not less than 36 inches (914 mm) in height and shall not create an angle of more than 30 degrees (0.52 rad) with respect to the axis of the egress court along the path of egress travel. The width of the egress court shall not be less than the required capacity. 1028.4.2 Construction and Openings. Where an egress court serving a building or portion thereof is less than 10 feet (3048 mm) in width, the egress court walls shall have not less than 1hour fire-resistance-rated construction for a distance of 10 feet (3048 mm) above the floor of the egress court. Openings within such walls shall be protected by opening protectives having a fire protection rating of not less than 3/4 hour. Exceptions: 1. Egress courts serving an occupant load of less than 10. 2. Egress courts serving Group R-3. 1028.5 Access to a public way. The exit discharge shall provide a direct and unobstructed access to a public way. Exception: Where access to a public way cannot be provided, a safe dispersal area shall be provided where all of the following are met: 1. The area shall be of a size to accommodate not less than 5 square feet (0.46 m2) for each person. 2. The area shall be located on the same lot not less than 50 feet (15 240 mm) away from the building requiring egress. 3. The area shall be permanently maintained and identified as a safe dispersal area 4. The area shall be provided with a safe and unobstructed path of travel from the building. 1018.1 General. Aisles and aisle accessways serving as a portion of the exit access in the means of egress system shall comply with the requirements of this section. Aisles or aisle accessways shall be provided from all occupied portions of the exit access that contain seats, tables, furnishings, displays and similar fixtures or equipment. The minimum width or required capacity of aisles shall be unobstructed. Exception: Encroachments complying with Section 1005.7. Comments: A yard can be utilized for exit discharge if the yard is at grade level and is not within the confines of an enclosed building. If exit discharge is accomplished from ends of each of the aisles, aisle accessways are no longer required to be used for exit access to the aisles.

Commissioner Mike Causey September 28, 2021 Page 8 of 25

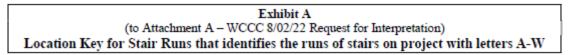
Conclusions: Since a code-compliant means of egress system is pravided via each end of the seating raws to a yard at grade level, stairs B thru F and J thru N are considered landscape steps. Landscape steps are not required to comply with the means of egress requirements of the 2018 NC Building Code. A codecompliant means of egress system from the stage is provided at stairs O and W. With the addition of a barrier along the curved portion of the stage at stairs P thru V, egress from the stage is prevented from stairs P thru V. Since these steps are no longer used for egress, they become decorative steps and are not regulated by the 2018 NC Building code. Please call or email if you have comments or questions. Sincerely, 2B. Rittlinger David B. Rittlinger, PE, LEED AP **Chief Code Consultant** NCDOI-OSFM Engineering & Codes Division CC: File Bridget Herring, Chair - BCC Mark Matheny, Vice-Chair - BCC Michael Ali, Chair, Commercial Super Committee - BCC Terence Friedman, Assistant Attorney General, Insurance Section - NCDOJ

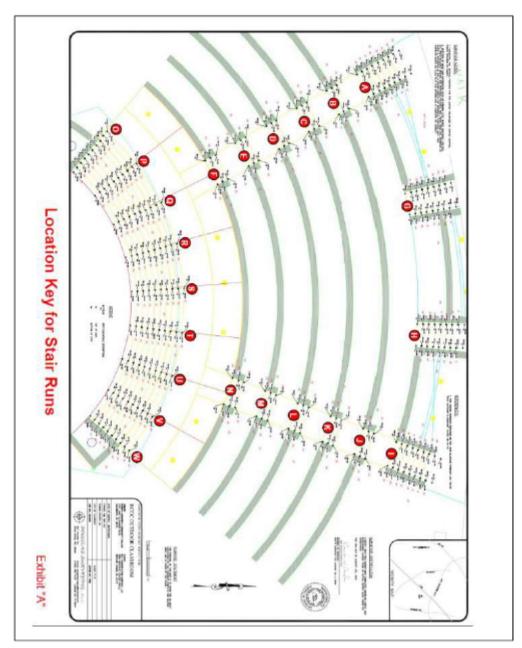
Commissioner Mike Causey September 28, 2021 Page 9 of 25

Attachment A (to Appendix #1 - NCDOI 9/23/22 Interpretation) WCCC 8/02/22 Request for Interpretation

	<u>!</u>	ATTACHMENT A	
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stage a	and labeled D through W ding code (WOCC expres ch steps are considered e	necessarily agreeing that any steps : are considered egress steps that no sty reserves the right to argue other gress steps that do not comply with moe with the building code with the o	ay not comply with wise), to the extent building code, can
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Commissioner Mike Causey September 28, 2021 Page 10 of 25



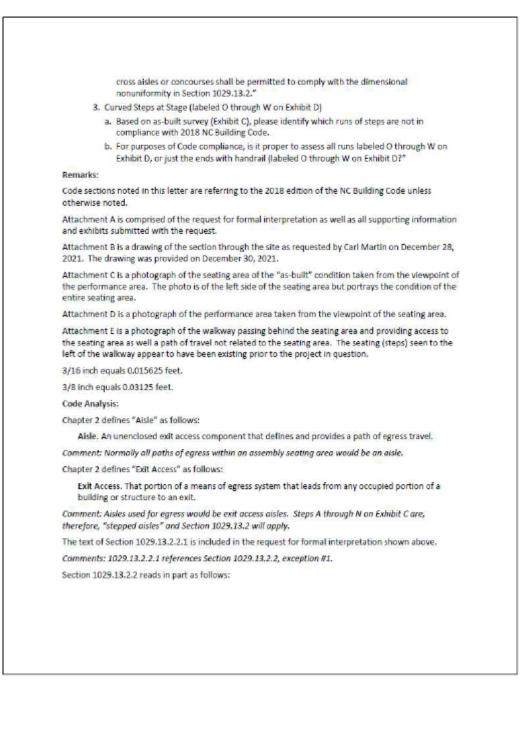


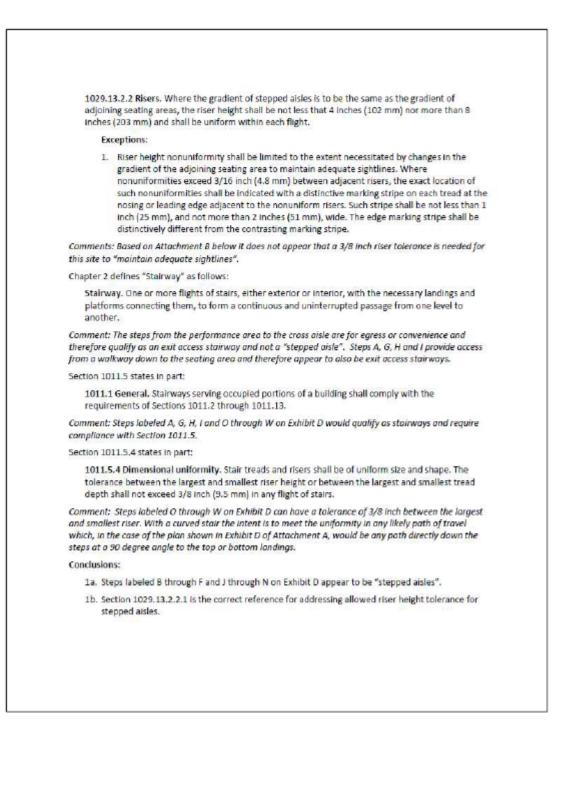
Commissioner Mike Causey September 28, 2021 Page 11 of 25

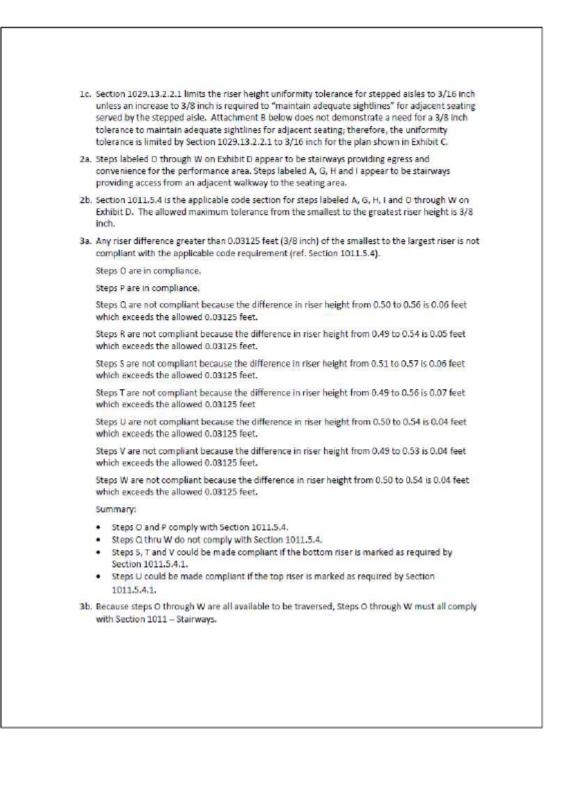
For remainder of attachments to NCDOI 9/23/22 Interpretation, see separate attachment [2] to email transmitting the RCCC 9/28/22 Request for Interpretation.

Commissioner Mike Causey September 28, 2021 Page 12 of 25

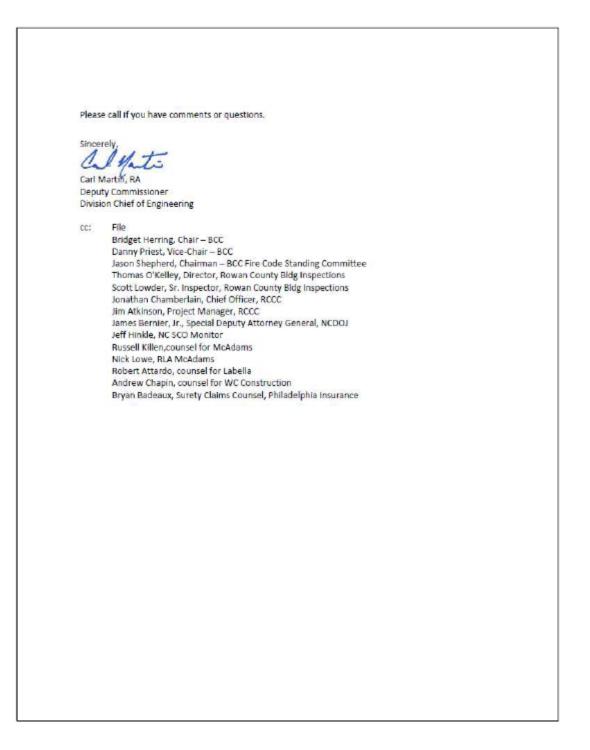
Appendix #2 NCDOI 1/6/22 Interpretation ENGINEERING Tel 919.647.0000 Fax 919.715.0067 MIKE CAUSEY, INSURANCE COMMISSIONER & STATE FIRE MARSHAL BRIAN TAYLOR, CHIEF STATE FIRE MARSHAL January 6, 2022 Kenneth Michael Womble Bond Dickinson (US) LLP One West Fourth Street Winston-Salem, NC 27101 Stepped Aisle and Stairway Riser Uniformity RE: 2018 NCBC, Sections 1029.13.2.2.1 and 1011.5.4 Mr. Michael: This letter is in response to your request for formal interpretation dated December 16, 2021 that was received in NCDOI by email on that same date. Your request for formal interpretation states: "Please confirm the following: 1. Stepped Aisles a. Please identify which nuns of steps labeled A-W on Exhibit D are "Stepped Aisles". b. To the extent there are Stepped Aisles on the Project, the applicable Code reference is the following: 1029.13.2.2.1 Construction Tolerances "The tolerance between adjacent risers on a stepped aisle that were designed to be equal height shall not exceed 3/16 inch (4.8 mm). Where the stepped aisle is designed in accordance with Exception 1 of Section 1029.13.2.2, the stepped aisle shall be constructed so that each riser of unequal height, determined in the direction of descent, is not more than 3/8 inch (9.5 mm) in height different from adjacent risers where stepped aisle treads are less than 22 inches (560 mm) in depth and 3/4 inch (19.1 mm) in height different from adjacent risers where stepped aisles treads are 22 inches (560 mm) or greater in depth." c. Even though the tolerance for adjacent riser heights is 3/16 Inch per Section 1029.13.2.2.1, a tolerance of 3/8inch is deemed to be in compliance with Code. 2. Stainways a. Please identify which runs of steps labeled A-W on Exhibit D are "Stairways." b. To the extend there are Stairways on the Project, please confirm the applicable Code reference is Section 1011.5.4 Dimension Uniformity, to which: "Stair treads and risers shall be uniform size and shape. The tolerance between the largest and smallest riser height or between the largest and the smallest tread depth shall not exceed 3/8 inch (9.5 mm) in any flight of stairs;" with Exception 1 whereby: "Stairways connecting stepped aisles to OFFICE OF STATE FIRE MARSHAL 1202 MAIL SERVICE CENTER | RALEIGH, NC 27699-1202 | WWW.NCDOLCOM/OSFM







Commissioner Mike Causey September 28, 2021 Page 16 of 25



Commissioner Mike Causey September 28, 2021 Page 17 of 25

Attachment A (to Appendix #2 - NCDOI 1/6/22 Interpretation) RCCC 12/16/21 Request for Interpretation

County Building Inspection Department, dated December 7, 2021. Initial B December 15, 2021 11 44 AM darification email from Thomas OKelly, Director of Rowan County Building Inspections; Hold C As-built spot elevation survey, dated August 24, 2021, by Dougtas Surveying, PLLC, with subsequently added test of calculations in red fort by the Designer, Nick Lowe, of McAdams; and For reference purposes only. Location Key for Stair Runs labeling on the as-built spot devation survey at the runs of skins on the project with letters A-W e Project is to comply with 2016 NC State Building Dode. The Owner is concerned that the ot elevations on the as-built survey (Exhibit C) reveal alsos and stairs with risers that do not may with the tokerance between adjacent stays (we think 3°16°) and run of steps which are teed A-W on Exhibit D (we think 3°16°). ease confirm (or clarify) the following: 3 Stepped Aisles a. Please identify which runs of steps labeled A-W on Exhibit D are "Stepped Aisles." b. To the extent there are Stepped Aisles on the Project, the applicable Code reference is the following: The following: The Please identify which runs of steps labeled A-W on Exhibit D are "Stepped Aisles." b. To the extent there are Stepped Aisles on the Project, the applicable Code reference is the following: The Please identify which runs of steps labeled A-W on Exhibit D are "stepped Aisles." b. To the extent there are Stepped Aisles on the Project, the applicable Code reference is the following: The Please identify which runs of steps labeled A-W on Exhibit D are the stepped Aisles." b. To the extent there are Stepped Aisles on the Project, the applicable Code reference is the following: The Please identify which the stepped Aisles on the Project which creates and provide area to reference to runs and area to the barder of Devated area where a stepped and the stepped Aisles.			ATTACHMENT A
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E-mail Ken Michaelgiwbd-us com Appeal (Request) for Formal Interpretation (N.C. Gen. Stats, § 160D-1127) Rowan Cabarrus Community College Outdoor Classocom Phase II 1333 S. Jake Alexander Blvd., Saltsbury, NC mmissioner Causey, omble Bond Dickinson is counsel for Rowan Cabarrus Community College. Pursuant to N.C. In: Stats. § 160D-1127, Rowan Cabarrus Community College. Pursuant to N.C. In: Stats. § 160D-1127, Rowan Cabarrus Community College. Pursuant to N.C. In: Stats. § 160D-1127, Rowan Cabarrus Community College. Pursuant to N.C. In: Stats. § 160D-1127, Rowan Cabarrus Community College. Pursuant to N.C. In: Stats. § 160D-1127, Rowan Cabarrus Community College. Pursuant to N.C. In: Stats. § 160D-1127, Rowan Cabarrus Community College ("Owner"), submits this appeal request for a Formal Interpretation of the Rowan Causty Building Inspection Department's erprotation of the NC State Building Code relating to the as-built construction compliance of saltsbury, N.C. ("Project"). Please find attached the following key documents: htbit A Inspection Worksheet (INSP-420557-2021) by Sott Lowdar of the Rowan County Building Inspection: Department, dated December 7, 2021. htbit B December 15, 2021 11 44 AM chaffication email from Thomas O'Kelly. Director of Rowan County Building Inspection: htbit C As-built appet elevation survey, dated August 24, 2021, by Doagtas Surveying, FLLC, with subsequently added text of calculations in red fort by the Designer, Nick Lowe, of McAdams, and htbit D For reference purposes only. Location Key for Stair Runs labeling on the as-built appet deviation survey at the runs of skins on the project with letters A-W e Project is to comply with 2016 NC State Building Code. The Owner is concerned that the ot elevations on the as-built survey. (Exhibit C) reveal aleps and atains with risers that do not mply with the tolewation survey at leaves (see think 3°16") and run of steps which are eace A-W on Exhibit D (we think 3°6"). esee confirm (or clarify) the following: Pupped Aisles • To the ex	Raleigh, NO	27699-1201	Direct Dial: 336-721-3644
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Commissioner Mike Causey September 28, 2021 Page 18 of 25

Marshal Mike Causey December 16, 2021 Page 2 of 8 1029.13.2.2.1 Construction Tolerances The tolerance between adjacent risers on a stepped aisle that were designed to be equal height shall not exceed 3/16 inch (4.8 mm). Where the stapped aisle is designed in accordance with Exception 1 of Section 1029.13.2.2, the stepped aisle shall be constructed so that each riser of unequal height, determined in the direction of descent, is not more than 3/8 inch (9.5 mm) in height different from adjacent risers where stepped arise treads are less than 22 inches (560 mm) in depth and 3/4 inch (19.1 mm) in height different from adjacent risers where stepped aisle treads are 22 inches (560 mm) or greater in depth." Even though the tolerance for adjacent riser heights is 3/16 Inch per Section 1029.13.2.2.1, a tolerance of 3/8 inch is deemed to be in compliance with Code. С. 2. Stairways a. Please identify which runs of steps labeled A-W on Exhibit D are "Stairways."
 b. To the extent there are Stairways on the Project, please confirm the applicable Code reference is Section 1011.5.4 Dimensional Uniformity, to which: "Stair treads and risers shall be of uniform size and shape. The tolerance between the largest and smallest riser height or between the largest and smallest tread depth shall not exceed 3/8 inch (9.5 mm) in any flight of stairs;" with Exception 1 whereby: "Stairways connecting slapped asles to cross aisles or concourses shall be permitted to comply with the dimensional nonuniformity in Section 1029.13.2." Curved Steps at Stage (labeled O through W on Exhibit D)

 Based on the as-built survey (Exhibit C), please identify which runs of steps are not in comptiance with 2018 NC Building Code.

 b. For purposes of Code compliance, is it proper to assess all runs labeled O through W on Exhibit D, or just the ends with handrails (labeled O and W on Exhibit D? Please note this Appeal (Request) is separate and apart from any independent professional duty of the design professionals on the Project, McAdams and Labella Associates. Please do not hesitate to let us know if you need any additional documents or information by contacting our design professional of record for the Project Nick Lowe RLA, ASLA, NRPA McAdams direct 980.729.6072 mobile 704.239.5088 nlowe@mcadamsco.com 3430 Toringdon Way, Suite 110, Charlotte, NC 28277 Thank you for your attention to this matter. Sincerely, WOMBLE BOND DICKINSON (US) LLP

Commissioner Mike Causey September 28, 2021 Page 19 of 25

	Marshal Mike Causey
	December 16, 2021
	Page 3 of 8
	Kenneth R. Michael
KRM: kwb	
Scott Lov Jonathan Jim Atkin Jamee B Jeff Hink Russell H Nick Low Robert A Andrew (O'Kelly, Director, Rowan County Bidg Inspections, <u>Thomas.okelly@rowancountync.gov</u> wder, Sr.Inspector, Rowan County Bidg Inspections, <u>Jessie Lowder@rowancountync.gov</u> in Chamberlain, Chief Officer, RCCC, <u>ionathan.chamberlain@rccc.edu</u> ison, Project Manager, RCCC, <u>ionathan.chamberlain@rccc.edu</u> emier, Jr., Special Deputy Attorney General, NCDOJ, <u>JBernier@ncdoi.gov</u> le, NC SCO Monitor, <u>Jetfrey Hinkle@doa.nc.gov</u> (illen, Esq., counsel for McAdams, <u>nusselkillen@parkerpoe.com</u> re, RLA, McAdams, <u>nlowe@mccadams.co.com</u> thardo, Esq., counsel for Labella, <u>RAtardo@lLBellaPC.com</u> Chapin, Esg., counsel for WC Construction, <u>AChapin@cgaplic.com</u>
Bryan Ba	ideaux, Esq. Sr. Surety Claims Counsel, Philadelphia Insurance, Bryan Badeaux@phly.com
Attachments: Exhibit A	Inspection Worksheet (INSP-420557-2021) by Scott Lowder of the Rowan County
	Building Inspection Department, dated December 7, 2021;
Exhibit B	December 15, 2021 11:44 AM clarification email from Thomas O'Kelly, Director of Rowan County Building Inspections;
Exhibit C	As-built spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC, with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams; and
Exhibit D	Location Key for Stair Runs labeling on the as-built spot elevation survey all the runs of stairs on the project with letters A-W.

Commissioner Mike Causey September 28, 2021 Page 20 of 25

Exhibit A

(to Attachment A - RCCC 12/16/21 Request for Interpretation) Inspection Worksheet (INSP-420557-2021) by Scott Lowder of the Rowan County Building Inspection Department, dated December 7, 2021

Phone: (704) 216-8	8619 Fax: (704) 216	-7986			
Case Number:	COMM-04-20-07311	в	Case Module:	Permit	
	Tue Dec 7, 2021		Inspection Status:		
nspector:	Lowder, Scott		Inspection Type:	Bldg Final - Res	
lob Address:	1333 S JAKE ALEX Salisbury, NC, 2814		Parcel Number:	063 068	
Contact Type		Company Name		Name	
Owner		ROWAN COUNTY			
Contractor General	C.	"WC Construction C	Company, LLC	Cockerham, Jr, William	
Owner		ROCC			
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nspector Commen 1. No changes Sections of sk stage. These uniform. The c 2. Need to test	s from previous inspe- eps in the stepped Ai Aisle steps are desig construction tolerance egress lighting in the	tion. sles are not to code . ned to be equal with t s per 1029.13.2.2.1 if aisles per the the pre	he gradient seating an	eas. The seating areas are plerances ,needs to be mee rt.	Failed
nspector Commen 1. No changes Sections of sk stage. These uniform. The c 2. Need to test	s from previous inspe- eps in the stepped Ai Aisle steps are desig construction tolerance egress lighting in the	tion. sles are not to code . ned to be equal with t s per 1029.13.2.2.1 if aisles per the the pre	he gradient seating an or a design of equal to wous inspection repo	eas. The seating areas are plerances ,needs to be mee rt.	Failed
1. No changes Sections of site stage. These uniform. The o 2. Need to test	s from previous inspe- eps in the stepped Ai Aisle steps are desig construction tolerance egress lighting in the	tion. sles are not to code . ned to be equal with t s per 1029.13.2.2.1 if aisles per the the pre	he gradient seating an or a design of equal to wous inspection repo	eas. The seating areas are plerances ,needs to be mee rt.	Failed

Commissioner Mike Causev September 28, 2021 Page 21 of 25

Exhibit B

(to Attachment A - RCCC 12/16/21 Request for Interpretation) December 15, 2021 11:44 AM clarification email from Thomas O'Kelly, Director of Rowan County Building Inspections

From: O'Kelly, Thomas <Thomas.O'Kelly@rowancountync.gov> Sent: Wednesday, December 15, 2021 11:44 AM To: Lowe, Nick <nlowe@mcadamsco.com> Cc: Lowder, Jessie Scott <Jessie Lowder@rowancountync.gov>; Jim Atkinson <jim.atkinson@rccc.edu>; Danny Carpenter <danny.carpenter@rccc.edu>; David Malcolm <malcolm@mcadamsco.com>; Samuel Bush <samuel@wcconstructionco.com>; William Cockerham <william@wcconstructionco.com> Subject: RE: RCCC OLC Phase II

Gentlemen

Good morning I hope all is well. After several correspondences email and phone with you all concerning the riser heights at the RCCC Outdoor Learning Center we have received from Land Surveyor Russell Douglas a more accurate measurement of the stair riser which show risers exceeding the tolerances of 3/8". Rowan County has field measured with tape measures and determined the stairs exceed 3/8" if you feel this Rowan County inspection is incorrect you may contact the Department of Insurance Building Division for a formal interpretation.



Thomas O'Kelly | Director Rowan County Building Inspections 402 N. Main St. Salisbury, NC 28144 NORTH CAROLINA [p] 704-216-8612 [c] 704-202-4132 [f] 704-216-7986 Be an original. Thomas okelly@rowancountync.gov www.rowancountync.gov

From: Nick Lowe <nlowe@mcadamsco.com> Sent: Tuesday, December 14, 2021 3:59 PM To: O'Kelly, Thomas < Thomas.O'Kelly@rowancountync.gov> Cc: Lowder, Jessie Scott <Jessie.Lowder@rowancountync.gov>; Jim Atkinson <jim.atkinson@rccc.edu>; Danny Carpenter <danny.carpenter@rccc.edu>; David Malcolm <malcolm@mcadamsco.com>; Samuel Bush <samuel@wcconstructionco.com>; William Cockerham <william@wcconstructionco.com> Subject: RCCC OLC Phase II

Thomas

Commissioner Mike Causey September 28, 2021 Page 22 of 25

I hope you have been doing well. Upon review of the most recent inspection report dated December 7th, 2021 for the above mentioned project, we would like to clarify whether particular sets of stairs are approved or disapproved or whether there was a general determination that the stairs do not meet code. Also, I understand that you may need a copy of the survey elevations for the stairs that were taken by WCCC. I have attached that for your convenience.

Thanks,



E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties by an authorized state official. (NCGS.Ch.132)

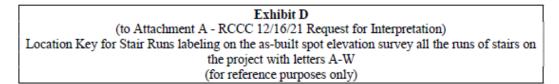
Commissioner Mike Causey September 28, 2021 Page 23 of 25

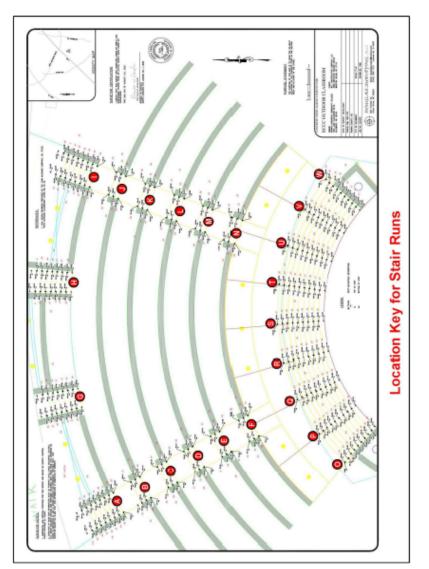
Exhibit C

(to Attachment A - RCCC 12/16/21 Request for Interpretation) As-built spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC, with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams

See separate attachment [4] to email transmitting the RCCC 9/28/22 Request for Interpretation for 2MB File of this Exhibit C.

Commissioner Mike Causey September 28, 2021 Page 24 of 25





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Commissioner Mike Causey September 28, 2021 Page 25 of 25

