



**ACI Committee 360**  
**Design of Slabs-on-Ground**

**MEETING MINUTES**  
**Monday, October 18, 2021**  
**2:00PM - 6:00PM**  
**Virtual Atlanta Meeting**

**Mission:** Develop and report information on the design of slabs on ground (except highways, parking lots, and airport pavements).

**Committee Members:**

1	Scott Tarr Chair	✓	16	Phil Brandt Secretary	✓	25	Carl Larosche TAC Contact	
2	Joseph Balik		17	Jerry Holland		31	Jay Patel	✓
3	Dan Biddle	✓	18	Phil Kopf	✓	32	Robert Rodden	
4	Amir Bonakdar	✓	19	Paul LaFontaine		33	John Rohrer	✓
5	William Brickey		20	Anthony Lampasona	✓	34	Paul Rouis	✓
6	Joseph Buongiorno		21	Steve Lloyd	✓	35	Matt Sheehan	✓
7	David Buzzelli	✓	22	James Loper	✓	36	Eduardo Tartuce	
8	Peter Craig	✓	23	Ed McGuire		37	Chris Tull	✓
9	Allen Face		24	Mike McPhee		38	Nancy Walker	✓
10	Rick Felder		25	Scott Metzger	✓	39	Wayne Walker	✓
11	Ed Finkel		26	Jimm Milligan	✓	40	Gerald Welch	✓
12	Barry Foreman	✓	27	Joe Neuber				
13	Bart Foreman	✓	28	Russell Neudeck				
14	Brad Fricks		29	Scott Niemitalo				
15	Jason Harris	✓	30	Nigel Parks	✓			

**Quorum Established?**

<b>Members Present</b>	<b>Committee Membership</b>	<b>Per ACI Section 2.3.2 ≥ 40%</b>
25	40	16

**Consulting Members**

Howard Allred	Bob Anderson	Terry Fricks
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**1. Call to order: Chairman Scott Tarr**

- A. Introduction of attendees.
- B. Will use virtual minutes as attendance sheets. Everyone indicated presence, as well as voting status on the virtual minutes.
- C. Update member contact information on ACI's website:
  - 1. It is important that everyone's email address is correct with ACI because that is the email address used to send committee correspondence and notice for ballots.
  - 2. Go to <http://www.concrete.org> "Login" then "Members" then "Address Change" to update the information.
- D. TAC Contact: Chuck Laroche - Document was voted and sent to TAC to be approved for 3 more years.
- E. Chairman Scott Tarr will continue in his role as "Chair" for an additional 3 years.
- F. Quorum: Yes – 20+ Voting Members

**2. Meeting Minutes Approval:** Virtual Baltimore Meeting Minutes approved.

**3. ACI Code Discussion:** Chairman Scott Tarr asked the committee if there is interest in developing a "Code" for Design of Slabs on Ground. After much discussion, including comments from a representative from ACI, it was decided our focus should remain on the Guide approval. Barry Foreman to head Task Group to discuss. Scott Tarr, Nancy, Jim Loper and Wayne Walker to work with Barry on this possible task.

**4. Chapters on website to ballot:** Currently, the Abstract, as well as all chapters are now on the website and ready for review. Chairman Scott Tarr suggested that we take one month to review the chapters, one month to comment on the chapters and one month to prepare the final chapter for TAC review.

**5. Reports from Related Committees:**

- A. 117 Tolerances (Joint ACI/ASCC): Kevin McDonald (10/18/21) - Major revision at this time – resolving negatives tomorrow.
- B. 130 Sustainability: Kevin MacDonald (10/18/21) – Revisions are at TAC for review.
- C. 223 Shrinkage Comp: John Rohrer (10/18/21) – TAC received comments, responded, and sent comments back for review.
- D. 224 Cracking: Harvey Haynes (10/18/21) – Joints report to be updated. Tech note for joints in residential slabs is ready to publish
- E. 301 Concrete Specifications: Scott Tarr (10/18/21) – Matt Sheehan is now taking this responsibility. Now starting a new cycle.
- F. 302 Floor / Slab Construction: Kevin MacDonald (10/18/21) - Document under committee review
- G. 310 Polished Concrete: Chris Wright (10/18/21) – Reviewing 310.J came out in February. Will review, meeting tomorrow.
- H. 329 Performance Criteria for Concrete: Jack Gibbons (10/18/21) - No update available
- I. 330 Parking Lots: Chris Tull (10/18/21) - Separated two documents: Commercial and Industrial. Reissued Industrial Guide. Just completed balloting on the specification and will resolve negatives this week. Some discussion regarding "K" value.
- J. 380 Structural Plain Concrete: Jay Patel (10/18/21) – Two hour meeting this morning. Applications of Plain Structural Concrete. Design to assume or not assume cracking. Wayne Walker discussed Allowable Tension Stress and how that factors into design.
- K. 544 Fiber Reinforced Concrete: Jimm Milligan (10/18/21) – Good Activity. Currently ballot out for vote – specification for fibers. Revising a couple of documents, as well as adding some new documents. All will match. Spring Fiber Reinforced Bowling Ball competition is now at 60 universities.

- L. 551 Tilt-Up Concrete: Ed McGuire (10/18/21) – No update.
- M. 640 Finisher Certification: David Buzzelli (10/18/21): Updating documents. Hands-on Only Finisher program up and running. Trying to do testing twice per year. Did cancel Commercial Finisher program at World of Concrete 2022.

## 6. New Document Revision:

- A. **Word Document:** Word document for editing is on the website “360R-XX All Chapters & Appendixes 26AUG10.doc”
- B. **Document Figures:** Wayne Walker in charge. All changes to be given to Wayne.
- C. **Current State of Document:** Chapters are now uploaded to “Draft Chapters / October 2020,” so that we can pre-ballot the document in 2020. **Track Changes!**

### D. Chapter subcommittee reports:

#### a. “Table of Contents” (Scott Tarr):

**10/25/2020:** Scott Tarr: This chapter is uploaded to the website for review and comment.

**03/29/21:** Scott Tarr is asking if some of these items should be broken out into separate chapters, including a chapter for “Slabs Lightly Reinforced for Enhanced Aggregate Interlock,” and a chapter for “Design of Slabs for Extended Joints.”

**10/18/21:** Scott Tarr will wait on these.

#### b. Chapter 1, “Introduction” (Bill Brickey):

**03/27/2017:** Bill Brickey is reasonably along with this chapter.

**10/16/2017:** Bill Brickey was not in attendance. This chapter should be ready to go.

**03/26/2018:** Bill Brickey provided Scott Tarr with the update. Not a lot of changes, Table 1.1 at end (Defined Traffic Values) should be addressed. This chapter should be ready to post to the website.

**10/15/2018:** Bill Brickey not present. Scott Tarr to contact Bill, but this chapter is ready to upload to the website for balloting.

**03/25/2019:** Bill Brickey was not present. This chapter is ready to upload to the website for balloting.

**10/21/2019:** This chapter is ready to upload.

**03/30/2020:** This chapter is uploaded to the website for review and comment.

**10/25/2020:** Bill Brickey was not in attendance. This chapter is ready to upload to the website for review and comment.

**03/29/21:** Bill Brickey sent Chapter One. Scott Tarr to review and put it on the website for review and comment.

**10/18/2021:** Scott Tarr will wait on these.

#### c. Chapter 2, “Notation and Definitions” (Barry Foreman):

**10/16/2017:** Barry Foreman asked the committee to specify any changes to the committee guide.

**03/26/2018:** Barry Foreman was not available for comment. This chapter should be ready to post to the website.

**10/15/2018:** Barry Foreman not present. Scott Tarr to contact Barry, but this chapter is ready to upload to the website for balloting.

**03/25/2019:** Barry Foreman was not present. This chapter is ready to upload to the website for balloting.

**10/21/2019:** This chapter is ready to upload to the website for review and comment.

**03/30/2020:** This chapter is ready to upload to the website for review and comment.

**10/25/2020:** Barry Foreman joined the meeting, but it was later. This chapter is ready to upload to the website for review and comment.

**03/29/2021:** Barry Foreman asked to forward anything new to Barry for review.

**10/18/2021:** Scott Tarr will wait on these.

**d. Chapter 3, “Slab Types” (John Rohrer):**

**03/27/2017:** John Rohrer suggested we add and/or delete, most of his comments were editorial in nature. Barry Foreman recorded the changes.

**10/16/2017:** John Rohrer was not in attendance. This chapter should be ready to post to the website.

**03/26/2018:** John Rohrer noted that there were editorial comments that he believes were resolved, but this chapter should be ready to post to the website.

**10/15/2018:** John Rohrer was not present. Scott Tarr to contact John, but this chapter is ready to upload to the website for balloting.

**03/25/2019:** Scott Tarr presented thoughts from Chris Tull regarding slabs reinforced for enhanced aggregate interlock. Scott thought this might be another slab type in this section and/or Chapter Six. John and Chris will work together. Jerry Holland would like to see this section expanded for more guidance, etc.

**10/21/2019:** Scott Tarr opened this Chapter up for discussion, because some of these might not fit, or how do each work with extended joint spacing floors. Do they need to be separated? Wayne advised that there is a table to reference. Need to talk about pros and cons of how to repair, etc.

**10/21/2019:** This chapter is now uploaded to the website for review.

**03/30/2020:** This chapter is now uploaded to the website for review and comment.

**10/25/2020:** John Rohrer was not in attendance. Should reasonable cracking expectations be addressed? This chapter is uploaded to the website for review and comment.

**03/29/2021:** Chris Tull advised there were a few negatives on this chapter. Chris to work through the negatives with those who responded. Wayne Walker commented on his negative vote, including his comments. Leave this chapter until last.

**10/18/2021:** Scott advised that the negative votes are on the website for viewing. He will provide those to John for review.

**e. Chapter 4, “Soil Support Systems for Slab-on-Ground” (Bill Brickey):**

**03/27/2017:** Bill Brickey presented information. Again, many editorial changes were made to the new draft document. Wayne discussed flow chart, would be nice to have the same chart in both 360 and 302 documents. Barry Foreman recorded changes.

**10/16/2017:** Bill Brickey was not present. This chapter should be ready to go.

**03/26/2018:** Bill Brickey is still working on some changes, including AASHTO references. Bill still owes a reference to Jerry and Wayne on K values, as well as an updated vapor retarder chart with new fonts.

**10/15/2018:** Bill Brickey was not present. Scott Tarr to contact Bill, but this chapter is ready to upload to the website for balloting.

**03/25/2019:** Bill Brickey was not present. Scott was asking about vapor retarders and whether this should be loaded into this section.

**10/21/2019:** This chapter is now uploaded to the website for review and comment.

**03/30/2020:** This chapter is now uploaded to the website for review and comment.

**10/25/2020:** Bill Brickey was not available. The chapter is uploaded to the website for review and comment.

**03/29/2021:** Bill Brickey advised there were a few negatives, but more editorial in content. Some negative comments might require a full re-write of a section. Bill hopes to have the comments incorporated by April / May.

**10/18/2021:** Bill Brickey was not available. There were several negative votes to this section that will need to be resolved.

**f. Chapter 5, “Loads, Environmental Factors, and Factors of Safety” (Jim Loper):**

**03/27/2017:** Jim Loper provided some comments for review.

**10/16/2017:** Rick Smith suggested that we define uniform and defined and undefined loads. Wayne Walker suggested that additional information be added regarding lift truck distinction.

**03/26/2018:** Wayne Walker, Jay Patel and Jim Loper are working on this document. Wayne said this chapter should be ready to post to the website.

**10/15/2018:** Jim Loper stated this chapter is ready to upload to the website for balloting.

**03/25/2019:** Jim Loper discussed airplane loads and the need to change this chapter. Also, issues related to harder, smaller wheels. Otherwise, this chapter is ready to upload to the website for balloting.

**10/21/2019:** This chapter is ready to upload.

**03/30/2020:** This chapter is now uploaded to the website for review and comment.

**10/25/2020:** Jim Loper advised that he reviewed several areas of the chapter, including a revised title and a few key sentences regarding serviceability of slabs on ground. Jim will send the revised chapter to Scott to upload for review and comment. This chapter is uploaded to the website for review and comment.

**03/29/2021:** Jim Loper joined the meeting late. Scott Tarr advised there are only a couple of negatives to resolve.

**10/18/2021:** Jim Loper advised there are three to four negatives. He reviewed each negative with the committee, and then the committee voted online. Chapter Five is ready to go.

**g. Chapter 6, “Joints” (Matt Sheehan):**

**10/16/2017:** Robert Rodden will take over this chapter as chair.

**03/26/2018:** Robert Rodden not present. Nigel Parkes was not sure on status but believes this chapter should be ready to post to the website.

**10/15/2018:** Robert Rodden advised that this section should not require much work. This chapter is ready to upload to the website for balloting.

**03/25/2019:** Robert Rodden is concerned that other chapters should be brought up to date, before addressing the issues within this chapter.

**10/21/2019:** This chapter is ready to upload.

**03/30/2020:** This chapter is ready to upload to the website for review and comment.

**10/25/2020:** Matt Sheehan advises this chapter is ready to upload to the website for review and comment.

**03/29/2021:** Matt Sheehan was not available. Hybrid joint detail.

**10/18/2021:** Matt Sheehan now has a draft of Chapter 6. Maybe not be ready to vote, but he now has a draft.

**h. Chapter 7, “Design of Unreinforced Slabs” (Wayne Walker / Jerry Holland):**

**10/16/2017:** Wayne Walker and Jerry Holland to take this chapter. Suggested change to “Design of Jointed Slabs.”

**03/26/2018:** Allen Face asked whether we change this section, or just re-approve the current. Most of the discussion centered on any real changes in slab design, safety factors and whether we go against previous considerations.

**10/15/2018:** This chapter will be ready to upload to the website for balloting.

**03/25/2019:** Jerry Holland presented additional ideas, but they can put those together quickly so that the document can be uploaded to the website for balloting.

**10/21/2019:** This chapter is ready to upload.

**03/30/2020:** This chapter is ready to upload to the website for review and comment.

**10/25/2020:** Wayne Walker – not a lot to review and revise here. This chapter is ready to upload to the website for review and comment.

**03/29/2021:** Wayne Walker advises not a lot of changes needed in this chapter. Should have it shortly.

**10/18/2021:** Wayne Walker advises this chapter is in good shape, should not take much to get it ready. It will be ready shortly.

**i. Chapter X1, “Design of Slabs Lightly Reinforced for Enhanced Aggregate Interlock” (Matt Sheehan):**

**10/25/2020:** Scott Tarr suggested this new chapter, including the possible location between “Design of Unreinforced Slabs,” and “Design of Slabs with Extended Joint Spacing.” This chapter will be represented by Matt Sheehan, Chris Tull, and Wayne Walker.

**03/29/2021:** Matt Sheehan and his capable group are working on this. Hope to have this balloted this one before Atlanta.

**10/18/2021:** Matt Sheehan - Goal is to be buttoned-up and ready for balloting in the next 5-6 weeks.

**j. Chapter X2, “Design of Slabs with Extended Joints” (Chris Tull):**

**10/25/2020:** Chris Tull - This is a possible chapter that would include designing slabs with the use of supplementary materials, including shrinkage compensating cementitious materials, as well as shrinkage reducing admixtures and macro fiber. This chapter will be represented by Chris Tull and Amir Bonakdar. This chapter is uploaded to the website for review and comment.

**03/29/2021:** Chris Tull advises he and his group are working on this, including advantages and disadvantages. They will also define as moderate, intermediate, and long. Will hammer this out and have it available for ballot before Atlanta.

**10/18/2021:** Chris Tull – Goal is to be buttoned-up and ready for balloting in the next 5-6 weeks.

**k. Chapter 8, “Design of Slabs Reinforced for Crack Width Control” (Mike McPhee):**

**10/16/2017:** Mike McPhee suggested this chapter should be added to Chapter 6, Joints. Wayne Walker recommended that the name of this chapter change to “Design of Continuously Reinforced Slabs.”

**03/26/2018:** Mike McPhee not available. Scott Tarr will post this chapter to the website for ballot.

**10/15/2018:** Mike McPhee changed title, but this chapter is ready to upload to the website for balloting.

**03/25/2019:** Mike McPhee was not present. Scott will upload what he has received from Mike to the website for balloting.

**10/21/2019:** This chapter is now uploaded to the website for review.

**03/30/2020:** This chapter is now uploaded to the website for review and comment.

**10/25/2020:** Mike McPhee was not present. The chapter is uploaded to the website for review and comment.

**03/29/2021:** Mike McPhee not available. Scott Tarr, Wayne Walker and Amir Bonakdar made some comments, including the chapter title, including crack width control, and 0.5%, different methods can mean different results, and a reference to fibers for crack width control.

**10/18/2021:** Wayne Walker is thinking of repurposing Chapter 8. Some areas of this chapter are complicated for the novice reader. Perhaps simply refer readers to other chapters. Scott to contact Mike to see if he is still participating in ACI.

**l. Chapter 9, “Design of Shrinkage-Compensating Concrete Slabs” (Brad Fricks):**

**03/27/2017:** Brad Fricks sent information to Barry Foreman, who will make that available.

**10/16/2017:** Brad Fricks was not in attendance. This chapter should be ready to post to the website.

**03/26/2018:** Brad Fricks was not in attendance. Some changes, but Scott Tarr to post this chapter to the website.

**10/15/2018:** Brad Fricks –There was quite a bit of discussion regarding cracking in shrinkage compensating concrete. This chapter is ready to upload to the website for balloting.

**03/25/2019:** Brad Fricks was not present. Scott will upload this document for balloting.

**10/21/2019:** This chapter is ready to upload.

**03/30/2020:** This chapter is ready to upload to the website for review and comment.

**10/25/2020:** Brad Fricks was not available. The chapter is ready to upload to the website for review and comment.

**03/29/2021:** Brad Fricks not available. This chapter should be ready to ballot.

**10/18/2021:** Brad Fricks not available. Barry Foreman has the latest version of the chapter from Fricks. Barry will forward to Scott for balloting.

**m. Chapter 10, “Design of Post-Tensioned Slabs-on-Ground” (Tony Johnson):**

**03/27/2017:** Bob Anderson was not in attendance, so there was no report. Jerry Holland will contact Bob to discuss his participation.

**10/16/2017:** Bob Anderson has not been in attendance in quite some time.

**03/26/2018:** It was suggested that Miroslav Vejvoda might be another option if Bob Anderson is not available.

**10/15/2018:** Bob Anderson is now a Consulting Member. Wayne Walker will take care of reviewing this document. This chapter is ready to upload to the website for balloting.

**03/25/2019:** Bob Anderson was not present. Scott Tarr will upload this document to the website for balloting.

**10/21/2019:** This chapter is ready to upload.

**03/30/2020:** This chapter is ready to upload to the website for review and comment.

**10/25/2020:** Tony Johnson will take the responsibility for this chapter.

**03/29/2021:** Tony advised that they expect to have a quick turnaround shortly.

**10/18/2021:** Amy Dowell (PTI) is looking at this chapter. There are some questions about this chapter, including background, residential and commercial, etc. Updating references, possibly delete some sections, including crack control. Scott and Amy to modify chapter to better reference PTI, rather than trying to compete with PTI.

**n. Chapter 11, “Fiber Reinforced Concrete Slabs-on-Ground” (Jimm Milligan):**

**10/16/2017:** A subcommittee meeting was not held on Sunday. Mike McPhee discussed two issues: (1) Yield line theory and Elastoplastic theory. The rest of the document is ready to go.

**03/26/2018:** Mike McPhee was not present. Amir Bonakdar advised that some changes have taken place, but this chapter should be ready to post to the website.

**10/15/2018:** Mike McPhee – Mike reviewed both sections and there are differences. Recommendations: (1) two different chapters – one on synthetic and one on steel. Maybe also break out “Micro” and “Macro” fibers within the synthetic chapter. Some thought regarding 544-4R, which has now been published, so that steel and synthetic would be considered two different materials but would design per ACI 544-4R. Mike will continue to work the steel section, and Amir and Dan will work on the synthetic section. This chapter, including both sections, will be uploaded to the website for balloting.

**03/25/2019:** Jimm Milligan will reach out to Mike to see if we can move this along. Amir: One chapter with various sections would be fine – need to move this forward. Other members agreed with this approach. Jimm will contact Mike to discuss and copy Scott Tarr.

**10/21/2019:** This chapter will be ready to upload by Thanksgiving.

**03/30/2020:** This chapter is now uploaded to the website for review and comment.

**10/25/2020:** Jimm Milligan advises draft is uploaded and 95% complete. Rick Smith – heavier load for positive moments in bottom. Wayne Walker - Bars in the bottom, fibers in top, and then laser screed the top with armored joints for ground improvements. This chapter is uploaded to the website for review and comment.

**03/29/2021:** Jimm Milligan advises there were a total of 5 negatives, but most will be easily resolved. All of the editorials are already done.

**10/18/2021:** Jimm has some negatives to resolve. Amir advises the chapter is in real good shape and should be ready to go shortly. Will ballot with resolution soon.

**o. Chapter 12, “Structural Slabs on Ground Supporting Building Code Loads” (Jim Loper):**

**10/16/2017:** It was suggested that Jim Loper take this chapter.

**03/26/2018:** It was suggested that Jim Loper take this chapter.

**10/15/2018:** Jim Loper was contacted with some suggestions. Will review with Wayne Walker and prepare the chapter for uploading to the website for balloting.

Another concern is old buildings taken over with new loads, mezzanines, etc. Possible creating tech notes to help young engineers answer questions regarding these facilities. This chapter will be uploaded to the website for balloting.

**03/25/2019:** Jim Loper, three people went through this document, made some changes that shortened the document; concerns included slab on pile details, large loads on slabs, lightly loaded with crack control, and Appendix Six, Design Examples for Steel FRC Slabs-on-Ground using Yield Line Method. This chapter should be ready to upload to the website for balloting.

**10/21/2019:** This chapter is now uploaded to the website for review.

**03/30/2020:** This chapter is now uploaded to the website for review and comment.

**10/25/2020:** Jim Loper – Shared some highlighted areas of the chapter. This chapter is now uploaded to the website for review and comment.

**03/29/2021:** Scott Tarr advises no negatives, and only 12 editorial comments. All good, should be ready to go.

**10/18/2021:** Jim Loper advises this chapter has been balloted. Some non-voting comments were found “non persuasive,” and one was found “persuasive,” but was editorial in nature. Committee reviewed the negatives and voted. Should be ready to go. Chapter 12 is now complete.

**p. Chapter 13, “Design of Slabs for Refrigerated Facilities” (Barry Foreman):**

**10/16/2017:** Barry Foreman has reviewed this chapter and will provide an updated version on the website. This chapter should be ready to go.

**03/26/2018:** Barry Foreman was not present. This chapter should be ready to post to the website.

**10/15/2018:** Barry Foreman was not present. Scott Tarr will contact Barry to discuss. This chapter is ready to upload to the website for balloting.

**03/25/2019:** Barry Foreman was not present. Jerry Holland provided thoughts regarding improving this chapter, but the basic chapter is very good. This chapter should be ready to upload to the website for balloting.

**10/21/2019:** This chapter is ready to upload.

**03/30/2020:** This chapter is now uploaded to the website for review and comment.

**10/25/2020:** Barry Foreman – some changes but will resubmit to website for review and comment.

**03/29/2021:** Barry Foreman advised very little editing. Should be ready by May.

**10/18/2021:** Barry Foreman will present this for ballot shortly.

**q. Chapter 14, “Reducing the Effects of Slab Shrinkage and Curling” (Amir Bonakdar):**



**10/16/2017:** Pat Harrison, Chair, has reviewed; needs to send to the website for feedback. Wayne advised that shrinkage reducing admixtures have been added to this section. Possible references back to ACI 302.

**03/26/2018:** Pat Harrison was not present, but Scott Tarr will post this chapter.

**10/15/2018:** Pat Harrison was not present. Scott Tarr will contact Pat to discuss.

**03/25/2019:** Pat Harrison was not present. Chapter is ready to upload to the website.

**10/21/2019:** This chapter is ready to upload.

**03/30/2020:** This chapter is ready to upload to the website for review and comment.

**10/25/2020:** Pat Harrison was not available. Scott will check. This chapter is ready to upload to the website for review and comment.

**03/29/2021:** Pat Harrison not available. Todd Nelson (WJE), Paul Luis, and Amir Bonakdar will take over this chapter.

**10/18/2021:** Amir will take over this chapter with help from Heidi Helmink, Paul Rouis, and Todd Nelson. Should have something ready to ballot shortly.

**r. Chapter 15, “References” (Barry Foreman):**

**10/16/2017:** Please submit any additions, changes, deletions, please submit to Barry so that he can provide updated version on the website.

**03/26/2018:** Barry Foreman was not present. Scott Tarr will post this chapter.

**10/15/2018:** Barry Forman was not present. Scott Tarr will contact Barry to discuss. This chapter is ready to upload to the website for balloting.

**03/25/2019:** Barry Foreman was not present. Scott Tarr will contact Barry to discuss. This chapter is ready to upload to the website for balloting.

**10/21/2019:** This chapter is ready to upload.

**03/30/2020:** This chapter is ready to upload to the website for review and comment.

**10/25/2020:** Barry Foreman advised anything additional should be added. This chapter is ready to upload to the website for review and comment.

**03/29/2021:** Scott Tarr advised this will come later.

**10/18/2021:** Barry Foreman has this section and will get ready for balloting.

**s. Appendices: Scott Tarr**

**10/16/2017:** Scott Tarr to review.

**03/26/2018:** Scott Tarr will post this chapter to the website.

**10/21/2019:** This chapter is now uploaded to the website for review.

**03/30/2020:** This chapter is now uploaded to the website for review and comment.

**10/25/2020:** Scott Tarr – these will be added, as necessary. This chapter is uploaded to the website for review and comment.

**03/29/2021:** Scott Tarr advised that this should be check out as well.

**10/18/2021:** Scott Tarr will update as needed.

**6. Meeting Adjourned: 4:45 PM (EST)**

**Virtual Atlanta Chat Log**

**Scott Tarr (to Everyone):** 2:00 PM: Thanks!

**Rick Smith - SSI (to Everyone):** 2:01 PM: Rick Smith - Associate

**Tony Lampasona (to Everyone):** 2:01 PM: Tony Lampasona - Voting

**Paul Rouis (to Everyone):** 2:02 PM: Paul Rouis- voting, present

**Luke Pinkerton (to Everyone):** 2:02 PM: Luke Pinkerton - Helix Associate

**Wayne Walker (to Everyone):** 2:02 PM: Wayne Walker - Voting  
**Mike Cook (to Everyone):** 2:02 PM: Mike Cook/ICF non voting  
**Robert Adams (to Everyone):** 2:02 PM: Robert Adams P.E. Associate  
**Matthew Mulheron (to Everyone):** 2:02 PM: Matt Mulheron - Associate  
**TJ Lambert (to Everyone):** 2:02 PM: TJ Lambert - Helix Steel - Associate  
**Phil Brandt (to Everyone):** 2:03 PM: Phil Brandt - Voting  
**John Rohrer (to Everyone):** 2:03 PM: Voting Member  
**Tim Manherz (to Everyone):** 2:03 PM: Tim Manherz -Associate member  
**Ryan Klacking (to Everyone):** 2:03 PM: Ryan Klacking - Syncon - Guest  
**Daniel Biddle (to Everyone):** 2:03 PM: Dan Biddle - Voting  
**Lenny (to Everyone):** 2:03 PM: Lenny Gagliardi- Associate  
**steve lloyd (to Everyone):** 2:03 PM: steve lloyd voting  
**Gerald Welch (Jerry) - FORTA (to Everyone):** 2:03 PM: Gerald Welch - Voting  
**Amir Bonakdar (to Everyone):** 2:03 PM: Amir Bonakdar - voting  
**Dale Phillips (to Everyone):** 2:04 PM: Dale Phillips, Associate Member  
**Nancy Walker (to Everyone):** 2:04 PM: Nancy Walker - voting member  
**Eduardo Tartuce (to Everyone):** 2:04 PM: Eduardo Tartuce - Voting member  
**Barry Foreman (to Everyone):** 2:04 PM: Voting member present  
**Scott Metzger (to Everyone):** 2:04 PM: Scott Metzger Voting  
**Bart Foreman (to Everyone):** 2:04 PM: Bart Foreman - Voting  
**Scott Metzger (to Everyone):** 2:05 PM: I have access  
**David Buzzelli (to Everyone):** 2:05 PM: David Buzzelli voting yes have access  
**Claire Gandee (to Everyone):** 2:05 PM: Claire Gandee - Associate Member  
**Jason A Harris (to Everyone):** 2:05 PM: Jason Harris - Voting  
**John Rohrer (to Everyone):** 2:05 PM: I have access  
**JAYENDRA PATEL (to Everyone):** 2:05 PM: Jayendra "Jay" Patel, voting member  
**Milligan Jimm (to Everyone):** 2:05 PM: Jimm Milligan --- Voting Member  
**Gerald Welch (Jerry) - FORTA (to Everyone):** 2:05 PM: Gerald Welch - Voting and Access  
**Chris Tull (to Everyone):** 2:05 PM: Chris Tull voting yes to access  
**Bret Houck (to Everyone):** 2:05 PM: Bret Houck, Stego - Associate Member  
**steve lloyd (to Everyone):** 2:06 PM: access  
**JAYENDRA PATEL (to Everyone):** 2:06 PM: & I have access  
**Chris Wright (to Everyone):** 2:06 PM: Chris Wright, Durable Surfaces - Associate  
**Peter Craig (to Everyone):** 2:06 PM: Peter Craig is here  
**Jeromy Craig (to Everyone):** 2:06 PM: Jeromy Craig - Associate  
**Philip Kopf (to Everyone):** 2:06 PM: Philip Kopf voting member but I don't have access to the web ballots  
**Tom Baggett (to Everyone):** 2:06 PM: Tom Baggett - Guest  
**Peter Craig (to Everyone):** 2:06 PM: Peter Craig is a voting Member  
**Jason A Harris (to Everyone):** 2:07 PM: I do not see Meeting Ballot option. Says "No Open Ballots"  
**brian roddy (to Everyone):** 2:07 PM: Brian Roddy  
**brian roddy (to Everyone):** 2:07 PM: Associate member  
**Jason Wimberly (to Everyone):** 2:07 PM: Jason Wimberly, Lithko, Visitor  
**Byron Benson (to Everyone):** 2:07 PM: Byron Benson- Guest

**Stefan Keuller (to Everyone):** 2:09 PM: Stefan Keuller - PES Structural Engineers - Guest  
**Nancy Walker (to Everyone):** 2:09 PM: I have access to the web page.  
**Marc Rached (to Everyone):** 2:09 PM: Marc Rached associate member  
**Tony Lampasona (to Everyone):** 2:09 PM: I have access.  
**Matt Offenber-Owens Corning (to Everyone):** 2:10 PM: Matt Offenber - Owens Corning - Visitor  
**Bryan M. Birdwell (to Everyone):** 2:10 PM: Birdwell associate member  
**JUAN ROBERTO POMBO (to Everyone):** 2:10 PM: Roberto Pombo - Associate Member  
**Klaus-Alexander Rieder (to Everyone):** 2:12 PM: Klaus-Alexander Rieder - Associate Member  
**Geoff Ballinger (to Everyone):** 2:13 PM: Geoff Ballinger- Associate  
**Jim Loper (to Everyone):** 2:15 PM: Yes. Jim Loper  
**Samhar Hoz (to Everyone):** 2:27 PM: All, This is Samhar Hoz, a structural engineer with ICC. If you could, help people in the industry through ACI Auction and donate through buying artwork:  
Go to Artist: Samhar Hoz-Acrylic paints  
<https://nonprofit.iconnectx.com/onetime-event/american-concrete-institute/women-in-aci-auction>  
**Tom Westphale (to Everyone):** 3:56 PM: sorry, was on a plane. Tom Westphale, associate member, Sika  
**Paul Rouis (to Everyone):** 4:42 PM: Phil, Please correct that it is me that should be on CH14 Paul Rouis. Pass on to Amir so we can connect for a subcommitte mtg.  
**Amir Bonakdar (to Everyone):** 4:45 PM: Got it Paul I'll email you

#### **Chapter Subcommittees below....**

### **ACI 360 - CHAPTER SUBCOMMITTEES**

#### **Chapter 1 – Introduction**

Bill Brickey (Sub-Chair)  
Nigel Parkes  
Bryan Birdwell

#### **Chapter 2 - Notation and Definitions**

Barry Foreman (Sub-Chair)

#### **Chapter 3 - Slab Types**

John Rohrer (Sub-Chair)

#### **Chapter 4 - Soil Support Systems for Slab-on-Ground**

Bill Brickey (Sub-Chair)  
Russell Neudeck  
Howard Allred  
Pat Harrison  
Jay Patel

#### **Chapter 5 – Loads**

Jim Loper (Sub-Chair)  
Pat Harrison  
Phil Kopf

## **Chapter 6 – Joints**

Matt Sheehan (Sub-Chair)

Nigel Parkes

Pat Harrison

Russell Neudeck

Scott Metzger

## **Chapter 7 - Design of Unreinforced Concrete Slabs**

Wayne Walker / Jerry Holland (Sub-Chairs)

Jim Loper

Wayne Walker

Jerry Holland

## **Chapter X1 - “Design of Slabs Lightly Reinforced for Enhanced Aggregate Interlock”**

Matt Sheehan (Sub-Chair)

Chris Tull

Wayne Walker

## **Chapter X2 - “Design of Slabs with Extended Joints”**

Chris Tull (Sub-Chair)

Amir Bonakdar

Wayne Walker

## **Chapter 8 - Design of Slabs Reinforced for Crack Width Control**

Mike McPhee (Sub-Chair)

Jason Harris

Chad Boyea

## **Chapter 9 - Design of Shrinkage-Compensating Concrete Slabs**

Brad Fricks (Sub-Chair)

John Rohrer

## **Chapter 10 - Design of Post-Tensioned Slabs-on-Ground**

Tony Johnson (Sub-Chair)

## **Chapter 11 - Fiber Reinforced Concrete Slabs-on-Ground**

Jimm Milligan (Sub-Chair)

Jim Loper

Steve Lloyd

Russell Neudeck

Scott Niemitalo

John Rohrer

Jason Harris

Dan Biddle

Jim Milligan

Amir Bonakdar

Heidi Helmink

## **Chapter 12 - Structural Slabs on Ground Supporting Building Code Loads**

Jim Loper (Sub-Chair)

Wayne Walker

**Chapter 13 - Design of Slabs for Refrigerated Facilities**

Barry Foreman (Sub-Chair)

Brad Fricks

Ed McGuire

**Chapter 14 - Reducing the Effects of Slab Shrinkage and Curling**

Amir Bonakdar (Sub-Chair)

Paul Ruis

Heid Helmink

Todd Nelson

**Chapter 15 – References**

Barry Foreman