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HOSPITAL BUILDING SAFETY BOARD Offsite Fabrication/Preassembled Components Webinar Development Subcommittee

Wednesday, May 8, 2024 1:00 p.m. – 4:00 p.m.

Teleconference Meeting Access:

Access Code: 984-661-861

Sub-Committee Members Present

Cody Bartley, Subcommittee Chair Scott Mackey, Subcommittee Vice-Chair Teresa Endres

HBSB Staff Present

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Veronica Yuke, Acting Executive Director Marcus Palmer
Evett Torres

HCAI Staff Present

Richard Tannahill Arash Altoontash Alireza Asgari Hussain Bhatia Mia Marvelli Ali Sumer Nanci Timmins John Gray

1. Welcome and Introductions

- 2 Cody Bartley, Subcommittee Chair, called the meeting to order on May 8, 2024, at 1:00
- 3 p.m., and HBSB Acting Executive Director, Veronica called roll.

2. Roll Call and Meeting Advisories/Expectations

- Three members of the Committee present constitute a quorum. There being three
- 7 present at the time of roll, a quorum was established.
- 9 Ms. Yuke read the meeting rules and procedures.

1 3. Review and approve the draft March 26, 2024, meeting report/minutes

- 2 Presenter: Cody Bartley, Subcommittee Chair
- **Discussion and Input**
- 4 Mr. Bartley reported that the previous meeting covered protection for fire-resistant
- 5 assemblies, fire alarm considerations, and sprinklers, reviewed speaking roles, and
- 6 editorial comments aimed at reducing slide text.

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- Informational and Action item
- 9 None

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- 11 MOTION: [Mackey/Endres]
- The committee unanimously voted to approve the March 26, 2024, meeting
- 13 report/minutes.

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- 4. Review slides for Offsite Fabrication/ Preassembled Components webinar
- 16 **Presenter:** Cody Bartley, Subcommittee Chair

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- Discussion and Input
- 19 Mr. Bartley provided updates on the progress of the webinar topics:
- Definitions Mr. Bhatia
 - Editorial changes to reduce bullet points to the definition of components, manufactured, and prefabricated.
 - Architect's view Ms. Endres and Mr. Mackey
 - Prefabricated components to offer architects and clients higher quality, cost savings, and improved efficiency, with a focus on safety collaboration.
 - Contractor view Mr. Bartley
 - Advantages of prefabrication, such as reducing onsite coordination and labor, improving quality and predictability, and enhancing safety through standardized processes.
 - OSHPD view Mr. Bhatia
 - Definition and equivalence of components, and assemblies in architectural, mechanical, and electrical systems, focusing on the prefabrication of components.

Background – Mr. Bhatia

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- OSHPD Preapproved Prefabricated Components and Systems (PCS)
- OSHPD Preapproval of Manufacturer's Certification (OPM)
- o OSHPD Special Seismic Certification Preapproval (OSP)
- OSHPD Preapproved Agency (OPAA)
 - OSHPD Preapproved Details (OPD)
- OSHPD Preapproval of Anchorage
- Prefabricated systems Mr. Bhatia
 - OSHPD PCS examples
- Select your kit of parts Mr. Bartley and Mr. Alireza
 - Highlight the growing use of prefabrication across markets.
 - Some Options: Preassembled or Prefabricated Mr. Bartley
 - Prefabrication could be applied to modular plants, integrated imaging ceilings, and prefabricated stairs and elevators, reducing congestion and costs, and making remodels more efficient.
 - Distinctions Mr. Bhatia and Mr. Bartley
 - Distinction between offsite prefabrication location and purpose.
- Purpose buildings as products Mr. Alireza
 - The OSHPD PCS program offers multidisciplinary preapproval for prefabricated components and systems in healthcare construction projects.
- Goals of the PCS Mr. Bartley
 - The goals of the PCS program were to save money on projects by reducing review and design time and ensuring timely field execution, while maintaining consistent quality, whether onsite or prefabricated.
 - Why Offsite Prefabrication? Mr. Bartley and Ms. Endres
 - Offsite prefabrication was driven by the need for speed to market, market capture, and revenue capture, as faster building completion was crucial for owners, and reduced onsite workforce needs.
 - Example project Ms. Endres
 - Advantages of room templates plus prefabrication.
- o Applying room templates for offsite prefabrication and modular design.
- o Leveraging the universal grid and modular planning principles.
- o Standard versus customized.
 - Design for manufacture and assembly Mr. Mackey
- 55 Focus on simplifying manufacturing and assembly using standardized, pre-56 assembled components to enhance efficiency, reduce complexity, and 57 improve cost, safety, and quality through high-volume repetition in a 58 controlled environment.

- Timing to integrate PCS into design Mr. Mackey and Mr. Bartley
- The key to integrating PCS into design was to do it early in the process to identify and fine-tune components, focusing on their size, function, efficiency, and effectiveness. Early integration ensured simplicity, speed of assembly, quality control, and speed to market.
 - Preassembled units, fire and life safety considerations Mr. Bhatia
 - Materials
 - o Protection of Fire Resistance Rated Assemblies
- 9 o Exiting

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- Fire alarm
 - Sprinklers
- Other considerations Shipping and delivery, preplan route and watch overpass height limitations.
 - PCS application submittal requirements Mr. Alireza
 - PCS approval process The PCS approval process entails a multidisciplinary review post-program submission, with coordination meetings held between design professionals and manufacturers, comments addressed, and approval granted thereafter.
 - What should documents show Documents should comply with California Building codes and standards, feature a clear table of contents, present calculations and testing data, incorporate TIO reports, provide common case scenarios and sizes, and ensure coordination between disciplines before submittal.
 - Offsite project-specific prefabrication Mr. Bartley
 - Offsite project-specific fabrication requires adherence to onsite inspection standards, multiple inspection levels, and careful logistics planning to avoid damage during transportation.
 - Who Inspects Offsite Prefabrication? Mr. Bhatia
 - Offsite Inspections at Prefabrication Site
 - Onsite Inspections
 - Weatherization
 - Change Management
- o TIO program o
- OSHPD PCS project examples Mr. Bartley
- o UCSF Proposed offsite fabricated bathroom pods.
- o UCSF Proposed offsite fabricated overhead corridor utility frame.
- o OSHPD 3 Project components in Sacramento.
- o OSHPD 1 project in San Jose.

- Summary Mr. Bhatia
- The Ask Mr. Bhatia
- Q and A
- 4 Mr. Mackey proposed that the OSHPD view intro slide should factor determining the
- 5 elements' definition.
- 6 Mr. Bartley proposed taking out the UCSF-proposed offsite fabricated bathroom pod
- 7 slide.
- 8 Mr. Mackey asked if permission was granted to use Kaiser Permanente as a reference
- 9 in the OSHPD PCS project examples. Ms. Endres answered that she would need
- clarification on that. Mr. Mackey suggested using the project in Roseville.
- 11 Ms. Colosi commented that the design professional slide should clarify what is
- prefabricated, and what needs offsite and onsite inspection, and relate the information
- 13 to the TIO slide.
- 14 Mr. Tannahill suggested including an introduction slide with the presenters'
- 15 backgrounds.

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- An interested party proposed explaining how construction and inspection would work
- with pre-assembled components, including details on whether they would be fully
- enclosed with drywall, connection points, and onsite inspection procedures.
- Mr. Bartley concluded that updates were needed for the PCS screenshot, rewording the
- 20 goal slide, and changing pictures on slides 40 and 50.
- 21 Mr. Bartley asked if the webinar dates could be set. Ms. Yuke stated that the proposed
- 22 dates were June 18, 25, and 27.
- 23 Mr. Bartley suggested that the webinar takes one and a half hours with an additional 15
- 24 minutes allocated for Q and A.

Informational and Action item

- Getting a poll out for June 18, 25, or 27.
- Updating slides on prefabrication.
- Screenshot of the submittal for PCS from HCAI website.
- Rewording the Goals of the PCS slide.
- Updating pictures and adding the TIO on slides 40 and 50.
- 32 5. Practice-run for the webinar
- 33 **Presenter:** Cody Bartley, Subcommittee Chair
- 34 **Discussion and Input**
- 35 Mr. Bartley mentioned that item five was covered during item four discussion.

- 1 Mr. Bartley asked if there was a need for a dry run before the webinar or if the current
- 2 presentation sufficed. Ms. Endres answered that there should be a dry run to ensure
- 3 readiness for the webinar.

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- 5 Informational and Action item
- 6 None.

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- 8 6. Comments from the public/committee members on issues not on this agenda
- 9 Presenter: Cody Bartley, Subcommittee Chair
- 10 Discussion and input
- 11 None.

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- 13 Informational and Action item
- 14 None.

- 16 **7. Adjournment**
- 17 Mr. Bartley adjourned the meeting on May 8, 2024, at approximately 3:05 p.m.