

Department of Facilities Management
Office of Planning, Design & Construction – Engineering
1540 30th street, UCB453, Boulder, Colorado 80309-0453

07/31/2025

David Byrne, Jr, Project Manager
Planning, Design & Construction

RE: Variance Request – UCB000762 CHAP – Electrical Variances

Mr. Byrne,

Thank you for submitting a variance request to our standards in reference to UCB Electrical Standards. The University has reviewed and below is the determination made:

- B1011 11.a. Embedded Conduit 1:
 - Scenario 1: UCB accepts conduits within an embedded duct bank as no other feasible alternative is apparent. The designers will work with Campus Electrical Engineer and Electric Shop on an appropriate amount of spare conduits for future use as a condition of approval.
 - Scenario 2: UCB discourages embedded conduit due to damage and shifting during construction. The project is approved to embed conduit and floor boxes and assumes the risk and understanding that a percentage will be damaged and unusable.
- B1011 11.a. Embedded Conduit 2: UCB approves the use of embedded conduit in the 3” topping slab above the mass timber elements with the condition that all options are explored in keeping the conduit 3/4” minimum. UCB recognizes that it is not feasible to install conduit underneath the slab because of the presence of mass timber and the project understands and assumes the risk of failed embedded conduit.
- D5010 2.a. Wire and Cable: UCB prefers copper conductors but recognizes the cost benefit and industry standard of Hospital construction and approves aluminum for 400A and higher service only. Designers will ensure that spec’s are accurate for proper installation of aluminum conductors.

Please be aware that this determination is only applicable to this specific variance request with these stated circumstances. No precedent is being set for future determinations.

Thank you,

Kevin Crosby