

MEETING NOTES

Construction Documents Meeting 4 (CD 4)

Project:

FCPS – ES Prototype: Waverley ES (WAVES)

GWWO Project #18045

Meeting Date: December 18, 2019

Report Date: February 11, 2020

In Attendance:

Name	Initials	Organization	Email
Brian Staiger	BS	FCPS	Brian.staiger@fcps.org
Paul Lebo	PL	FCPS	Paul.lebo@fcps.org
Adnan Mamoon	AM	FCPS	Adnan.mamoon@fcps.org
Bob Wilkinson	RW	FCPS	robert.wilkinson@fcps.org
Dave Yates	DY	Alban Eng.	dyates@albanengineering.com
Warren Sparkes	WS	Ambiance Light.	wsparkes@ambiancelighting.com
Dave Toth	DT	Oak Contracting	dtoth@oakcontracting.com
Jason Hearn	JH	GWWO	jhearn@gwwoinc.com

The purpose of this meeting was to discuss the proposed lighting design for the project.

- JH asked DY to provide an overview of the exterior and interior light fixtures and controls being proposed.
- FCPS had previously requested a pole fixture at the site entrance from the Stonegate neighborhood. GWWO and Alban recommended lighting the entire path from the site entrance, which would net approximately four (4) extra poles. No objection was recorded from FCPS.
- DY emphasized the energy savings provided by the standard LED pole lights and wall packs. Light distributions from the LED wall packs allow greater coverage with less fixtures.
- There is potential for greater cost savings by implementing low-voltage components to the site lighting package for a wireless control system. DY asked DT if Oak Contracting would be willing to provide a cost estimate for installing said low voltage requirements; DT agreed.
- DY led further discussion on the interior luminaires.

- All fixtures are familiar to FCPS as they have been specified for both the new Rock Creek School and for BHES.
- PL reiterated that 2x4 lay-in fixtures should be utilized to the greatest extent possible. Two exceptions are the media center and cafeteria. Pendant fixtures can be utilized in these spaces.
- DY provided a hard copy of the lighting specifications for FCPS review. Primary focus on warranty and attic stock numbers is desired.
- DY offered the following items of note for controls:
 - Low-voltage wiring is becoming standard because of its adaptability and relatively low cost.
 - Daylighting zones are separate areas of certain spaces that are required by code to have special controls for automatic dimming. GWWO and Alban endeavor to limit these zones to the greatest extent possible as they are difficult to design for, accumulate added cost and are loathed by the maintenance department. The design for WAVES resulted in zero (0) daylighting zones.
 - The basis-of-design room controller was reviewed, and a physical demonstration was provided to RW at the end of the meeting. Classroom lighting zones are required by the International Energy Conservation Code (IECC) and play heavily into energy reduction calculations for LEED. Given the IECC parameters, simple rocker light switches in new commercial buildings are practically obsolete.
 - DY and JH will meet to further refine the controls and simplify them to the greatest extent possible.
 - Sensors, of both the occupancy and vacancy types, will be installed throughout the building. Also required by code, these sensors will dim and/or turn off fixtures when occupants are not present.
 - Preliminary corridor zones were presented. PL prefers the zones to be organized by wing/area so if lights come on because of movement in Area A, lights across the building in Area F do not come on as well.
 - The gymnasium will have two separate zones, delineated by the curtain running down the center line of the basketball court.
- Of high priority is scheduling a pre-install meeting during construction. Oak sees no issue with having a meeting to eliminate the potential for issues in the field.

The foregoing represents the writer's interpretations of what transpired at the meeting. Please forward any changes or corrections within five (5) days to jhearn@gwwoinc.com. Otherwise these notes will stand as the final record of the meeting.

Respectfully submitted,

GWWO, Inc./Architects

A handwritten signature in black ink, appearing to read "Jason T. Hearn". The signature is fluid and cursive, with a large initial "J" and "H".

Jason T. Hearn, AIA, LEED AP BD+C
Project Manager

CC: All Attendees
Tammie Smith
Paul Hume

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