

Frank Valdes

From: Ryan Daly <rdaly@reflexlighting.com>
Sent: Friday, September 30, 2022 1:10 PM
To: Frank Valdes
Cc: Isaiah Fleetwood; Tyler Lord
Subject: RE: MLB News
Attachments: Dimella Shaffer - Ayer Commons - Reflex Lighting Schedule.xlsx; Type L-LP - Cooper Lighting.pdf; Type L-BL - Ligman Lighting USA.pdf; Ayer Commons.pdf

Hi Frank,

TGIF! How are things?

Attached you will find the Reflex Lighting Schedule, Cut Sheets and the Lighting Calcs. design for Ayer Commons. Isaiah, thanks for the quick turnaround and help on the lighting calcs. and providing the bullets below.

Frank, we are just waiting to answer questions 5, 6 and 14 through Tyler and our controls team. Should have some answers on those shortly. Everything highlighted in GREEN has been answered, RED we are still working on.

- Lighting Fixtures used are the 2 identified in the highlighted yellow portion. The Full SKU's aren't shown on Isaiah's design however Reflex can input that as requested.
- For IES recommendations, for parking its generally a 0.5FC min with a 15:1 max: min ratio. All points in yellow are values of 0 and 0.1fcs.
 - o The 2 parking lots met this requirement, however the strips of parking alongside the buildings have lower minimum values than recommended
- For Ayer Ordinances, this is what Isaiah found:

C. Lighting standards.

- (1) All applications for site plan review shall include a proposed lighting plan that meets functional security needs of the proposed land use without adversely affecting adjacent properties or the neighborhood. The plan shall show existing and proposed exterior lighting, the location, mounting height and orientation of luminaires, and sufficient technical information from the manufacturer of the lamps and fixtures to determine their type and resulting illumination levels. A photometric plan shall show light levels throughout the property. Light spillover onto adjacent premises shall not exceed 0.5 footcandle in residential districts or 1.0 footcandle in nonresidential districts.
- (2) Any outdoor lighting fixture newly installed or replaced shall be shielded so that it does not produce a strong, direct light beyond the property boundaries.
- (3) No light standard shall be taller than 15 feet except by special permit from the Planning Board.
- (4) Where wall-pack-type luminaires are utilized for outdoor lighting, the fixture shall be equipped with a prismatic lens to reduce glare. Wall-pack lighting shall be designed to a maximum cutoff of 70° from vertical. The location of the wall-pack on the structure shall not exceed 20 feet in height.

- o
- For spill light, what type of calc is required, however the only location where it possibly exceeds 1FC is at the entrance because there's a pole right by the line
- BUG Rating is shown on schedule. The rating for the bollards was not in the IES file

3. Lighting Fixture Schedule (Full Specifications for all Products and Poles)
4. Lighting Fixture Cuts (showing dimensions)
5. Circuiting intent diagrams
6. Control narrative or diagram
7. Compliance with IESNA Recommended Practices for this type of project
8. Compliance with the Ayer Bylaws as they refer to lighting
9. Illuminance levels on site
10. Illuminance levels at the perimeter of the site showing minimal to no spill light
11. BUG classification for all lighting fixtures to show compliance with Ayer Zoning Bylaws
12. Color temperature of all light sources
13. Color rendering index of light sources
14. Control of Lighting

Please let me know if you have any additional questions or requests. Tyler from our controls team will assist on answering types 5, 6, and 14 and will have that by your timeline date of (10/4).

Have a great weekend and talk soon!

Ryan

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Check out our updated customer [Orders and Bid Board Portal here!](#)

From: Frank Valdes <FValdes@dimellashaffer.com>
Sent: Tuesday, September 27, 2022 2:04 PM
To: Ryan Daly <rdaly@reflexlighting.com>