

Wilmington Public Safety Facility Meeting

October 8, 2020

Present: Chuck Clerici, Chief Moore, Chief Murano, Jeremy White

Architects & Engineers Present: Ralph Nimtz, Casey Gecha, Brian Lane-Karnas, Patrick Perreault, Dan Dupras

Public Present: Bill Spirka, Mary Jane Poynter (Efficiency Vermont)

Meeting called to order at 2:00 p.m.

Updates

Discussion on DRB meetings and concerns of landowners of abutting properties regarding building lighting. Patrick states that light levels are appropriate for use of building. Chuck asks Ralph and Casey to work with Chief Murano to see other color options of sally port to minimize reflective light. Discussion on shortening door height to 9ft. Chief Murano advises against this, as height of vehicles is nearly 9 feet already. Patrick emphasizes that lights should have 2 foot candles for this size of project. Explains that glare of lights is usually due to light bouncing off the lens- with new designs, this light is retracted back to the fixture. Lights can be set to dim down to 10% of brightness when not sensing motion for a preset amount of time. Brian to present these facts to the DRB on Wednesday, October 20th.

Questions from John Lazelle about the sewer and storm drain have been answered by Brian.

Overview of mechanical systems by Dan:

Gas boiler system provides hot water for radiant floor heat for apparatus bay and provides back up heat for airsource heat pump system that serves fire and police office areas. Office areas are provided with low ambient heat pump system for heating and cooling.

Exhaust fan in fire department gear room, exhaust fan in apparatus bay.

Plumbing – designated condensing gas hot water heater for whole building.

Heat pump water heater can be considered, but high demand for water in building and slow recovery of system presents a challenge for this building. Chuck recommends adding storage to hold more hot water to be able to have a heat pump unit that is at least twice as efficient as gas hot water heater. Mary Jane suggests connecting heat pump water heater to an electric water heater storage tank. GMP may provide incentives. Dan to come up with an alternate quote for using a more efficient design.

Some concern of high humidity in winter from ice melting off fire trucks. Dan presents his simple humidity control system- the exhaust fan in the apparatus bay. It has a humidistat that will trigger the fan to cycle air if humidity goes above a preset percentage. Bringing in the outside air will get rid of humidity. Fan power would be based on the 1 cubic feet per minute/ 1 square foot of apparatus bay. Bill questions whether that is enough air cycling for updated NFPA standards. Climavent system would be ideal for fire department – also costs upwards of \$40,000. Dan to come up with an alternate quote for using this system.

Discussion on demand control ventilation for office spaces. COVID is discouraging use of these systems. Can set up sensors and turn on/off as needed to ensure facility has demand control capabilities for future use.

Casey and Brian to map out where lights will be on site for site visit on Wednesday at 5pm.

Discussion on components of building not included in architectural scope of work – alarms, security, cameras, data and phone and dispatch. All is going to be embedded into GC bid package. Specs from vendors to go to NBF and Dan Dupras to be added to architectural specs.

Meeting Adjourned at 2:58 pm.

Next meeting is scheduled for Thursday October 22, 2020 via Zoom at 6:00 p.m.

Respectfully submitted,

Melanie Lopez

Secretary