

**TOWN OF ENFIELD
MUNICIPAL FACILITIES ADVISORY COMMITTEE
DESIGN TEAM**

**MEETING MINUTES
March 24, 2022**

MFAC Design Team in Attendance: Tracy Young, Tate Picard, and Kim Quirk (online), Reed Bergwall

MFAC Design Team Absent: Travis Boucher

Ex Officio Members in Attendance: Ed Morris, Town Manager and Shirley Green, Library Trustee

Ex Officio Members in Absent: N/A

Town Staff in Attendance: Police Chief Roy Holland and Fire Chief Phil Neily

Called to order at 9:00 AM

BUSINESS

This meeting was called for the purposes of meeting Ed Pearson and making sure the design team, staff and contractors were on the same page as far as MEP and electrical services go. Ed Morris turned the meeting over to Andrew Martin.

Andrew reviewed the process to this point on heating systems. Revisited the high cost determined in January with the changes made to bring the cost down. One change was moving toward propane fired roof top units (RTU) for heating. While working on the cost breakdown for the congressional direct spending grants Ed Pearson was called to help get a ballpark figure for grant purposes. At the last meeting there was discussion about moving to an all heat pump configuration for the offices. Andrew explained that he wanted to come to consensus on heating units, solar panels, and car charging systems today.

Andrew then went on to introduce Ed Pearson to the MFAC. Ed Explained his 50 year career in mechanical and electrical engineering and discussed his current role as consultant. The committee asked a few questions and overall was content moving forward with Mr. Pearson as a consultant.

Andrew went on to explain the all-electric VRF heat pump unit with energy recovery that they will be designing. There was some discussion by the group before consensus was reached. Andrew then moved on to discussing heating in the fire bays. A recommendation was made to design around propane fired radiant infrared heaters on the ceiling. After discussion in floor hydronic radiant heat, heat pumps and propane fired radiant infrared heaters. Heat pumps were ruled out because of the large heat loss when overhead doors would be opened and the slow recovery. Radiant floors were ruled out because of the

increased cost and slow recovery. Consensus was reached to move forward with the propane fired radiant infrared heaters.

The discussion then moved to electric vehicle charging units. There was discussion about Class II and Class IV charging systems. Future discussions were around placing Class II chargers in the Sally Ports. Once Chief Holland learned the Class II chargers would take 8+ hours to charge the vehicles, he stated that would not work. There was discussion about the need for a separate three phase service for a Class IV EV charging system. After a long discussion it was decided to lean towards placing conduit to the Sally Ports for future installation, but to remove car charging systems from this design.

The MFAC then discussed Solar Panels and the differences between a roof mounted system and a ground mounted system. Kim Quirk stated that a roof mounted system would not need much, if any, additional structural design. There was talk about which to do, but ultimately it was decided that Kim Quirk would work with BRD to determine structural need for roof top solar, before a final decision is made on solar.

This discussion was followed by a power wall/battery backup discussion. Because of the extra switches, and increased cost, and extra fire protection needs, it was decided not to plan for power walls. The Committee decided that if a grant comes through for power walls, that an exterior addition could be considered to house this additional power storage.

Ed Pearson was asked to do some energy modeling, and it was discussed that we could work with Andrew Hatch for some consulting through Liberty Utilities for energy efficiency planning.

T the end of the meeting it was reviewed that Ed Pearson would work Neagley And Chase and BRD to design a heat pump system with energy recapture for the offices, propane fired radiant infrared heaters for the bays and sally ports, conduit would be placed for future charging systems, Kim Quirk would work with them to determine increased costs for roof top solar panels, and nothing would be planned for power walls. This information will be used to solidify final pricing.

WHITNEY HALL UPDATE

Ed Morris updated the Committee that the Design Build Contractor RFQ for the Whitney Hall was due on March 22, 2023, and two design build contractors had applied. MFAC will be meeting Tuesday to discuss the submittals.

Meeting adjourned at 11:05