

December 22, 2010

DOWL HKM
4041 B Street
Anchorage, AK 99503

ATTENTION: Steve Erskine

Dear Steve:

**REFERENCE: Noorvik Health Clinic Additional and Remodel
Addition Substantial Completion
Mechanical and Electrical Inspection**

Per your request Xuan Ta and myself traveled to Noorvik on December 20th to perform a substantial completion inspection of the referenced facility. Our inspection was focused on the recently completed addition portion of the clinic. Noted below are our comments.

Mechanical

General:

1. The mechanical portion of the work for the addition is substantially complete.
2. The fintube piping is exposed where it penetrates the floor. We recommend the pipe be insulated and jacketed with a durable cover. Note this occurs throughout the clinic.

Exterior: We recommend a low level float be added at the exterior fuel tank to prevent the day tanks from running dry and burning out. Note this would be betterment to the project.

Vestibule 134:

1. The day tank pump package was not operating correctly. The contractor / owner has to manually switch on one of the pumps to fill the tank. Note this will need to be closely monitored to prevent losing heat on the addition side of the clinic.
2. Vestibule 134 - We recommend the day tank pump packaged be enclosed in a removable sheet metal cover. As installed the fuel shutoff valves and piping are exposed and subject to tampering by the public. Additionally – why is the electrical rough-in so high on the wall?

Dental 130:

1. Dental exhaust fan on/off switch needs to be labeled.
2. The center round dental sink would not operate when the toe space push plate was activated.
3. The dental vacuum separator should be attached to the floor.

Supplies 127: Wall cleanout cover is missing.

Exam 125: Fintube end piece needs to be secured better (right side).

Vestibule 134: Thermostat guard missing.

Com 203: Wall grille needs to be coordinate with wall opening. As installed the grille does not adequately cover the wall opening.

Storage 201: The dental vacuum pump and air compressor should be secured to the floor.

Mechanical 202:

1. Boilers, pumps, hot water generator, and vent fan were all working to the extent necessary for the operation of the clinic addition. There are outstanding items in the boiler room, most of which I would assume will be completed during the next phase of work. While on site I noted the following items.
2. Domestic hot water pump was not operational.
3. Equipment was not labeled.
4. Piping was not insulated.
5. Ductwork was not insulated.
6. Recommend a screen be installed over the vent fan discharge. Note this was not called for on the plans and would be a project betterment.
7. HRV heating coil not installed.
8. HRV not operational. As a temporary measure we recommend the HRV be operated without the coil when outdoor temperatures allow.

Electrical

General:

1. Electrical system consists of lighting, power, signal, and stand-alone heat detector were installed and operational and we would consider the electrical work substantially complete.
2. Contractor to reflect the changes made during the construction on the As-Built Drawings.
3. Provide nameplates to identify all electrical distribution and control equipment and load served per specification section 16195, paragraphs 3.3.B and 3.3.C.
4. LED under cabinet Type 'D' lights have been replaced with under cabinet fluorescent lights with integral light switches (plug-in type) throughout the building except Trauma 131.

Exterior:

1. Service entrance equipment and generator connection has been relocated to northwest corner of the building (outside Toilet 115) instead of north corner of building (outside Morgue 135) as shown on Sheet E3.2.
2. 12"x12"x6" enclosure for telephone service connection not installed per 1/E3.2.
3. Provide nameplate for the service disconnect switch in accordance with 2008 NEC 230.70(B).
4. GFCI duplex receptacle with weatherproof cover will be installed in Phase II per Contractor.

Trauma 131:

1. Type 'D' light with integral light switch is a plug-in type not hard-wired connection. Standard light switch is not needed and not installed. See General item #1.
2. Duplex receptacle installed and connected to the local lighting circuit for Type 'D' light connection. See General item #1.

Corridor 123:

1. Panel 'A': Provide nameplate. See General item #2.

Dental 130:

1. Type 'D' lights and switches are not installed. Under counter lights with integral switches are provided with the dental furniture.
2. Light switch for work area's lights relocated to the west wall. The installation is accepted.

Exam 132

1. The GFCI duplex receptacle relocated to the west wall instead of north wall (above sink). The installation is accepted.

Mechanical 202

1. The GT-1 located adjacent to the DT-1. The duplex receptacle for GT-1 connection relocated on the post instead of southwest corner. The installation is accepted.
2. The fourth light fixture has been rotated approximately 30 deg to avoid conflict with beam.
3. Provide nameplates to electrical devices such as panel, fractional motor starter, etc. See General item #2.
4. Provide sequence of operation and post next to the transfer switch per 1/E3.3.

Comm Rm 203

1. (2) 4" conduits installed instead of (3) 4" conduits per 1/E3.3.
2. (1) Quadruplex receptacle installed on the north wall and the other quadruplex receptacle installed on the east wall instead of two. The installation is accepted.

If you have any questions concerning the above, please do not hesitate to call me.

Sincerely,



Ralph R. DeStefano, P.E.
Associate Principal

rrd/hhm
10-1155/K5255