



**DeLUCA HOFFMAN ASSOCIATES, INC.
CONSULTING ENGINEERS**

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SUITE 8
SOUTH PORTLAND, MAINE 04106
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Site Visit Week of: August 30-September 3, 2010		Job No.: 1599.52.02
Project: Saco Central Fire Station		
Location: Saco, Maine		
Contractor: Pizzagalli Corp.	Owner: City of Saco	
Present at Site:		
Joe Newton, DeLuca-Hoffman Associates, Inc.		
G. Richards, Pizzagalli Corp.		

TO:

Bob Hamblen – City of Saco
Angela Blanchette – City of Saco
John Duross – Saco Fire Department
Ed Dube – Saco Fire Department
Grit Richards – Pizzagalli Corp.

- **Peters Construction Co.** was on site with the following personnel and equipment:

Personnel

1 – Engineer
1 – Operator

Equipment

1 – Volvo 55B Mini-Excavator
1 – CAT Track Bob Cat

- **Titan Mechanical Co.** was on site with the following personnel:

Personnel

1 – Foreman
2 – Plumbers

- **Nate Libby Masonry Construction Co.** was on site with the following personnel and equipment:

Personnel

1 – Superintendent, Nate Libby
8 – Masons
4 – Mason Tenders

Equipment

1 – High Forklift
1 – Cement Silo & Mixer

- **Davis Erectors Co.** was on site with the following personnel and equipment:

Personnel

2 – Steel Workers

Equipment

1 – High Forklift

- **Goodwin Well Drilling Co.** was on site with the following personnel and equipment:

Personnel

1 – Owner/Superintendent
4 – Drillers
2 – Helpers
2 – Grouters

Equipment

2 – Drill Rigs
2 – Support Trucks
1 – Grout machine

- **B.H. Millekin Electrical Co.** was on site with the following personnel:

Personnel

1 – Foreman
1 – Electrician

- **Dirago Drywall Co.** was on site with the following personnel:

Personnel

1 – Foreman
2 – Wall Framers

- **R.W. Gillespie & Associates** was onsite with one GeoTech to sample and test grout and to test and inspect the installation of the geothermal piping in the geothermal wells.

1. During the on-site construction inspection, the following items were observed:

August 30, 2010

- Peters Construction Co. crew graded the subgrade of the floor slab in the Administration area, rear room and the rest room area. Refer to Photo 1 (0076).
- Titan Mechanical Co. crew installed sanitary piping under the floor slab in the Apparatus Bay. Refer to Photo 2 (0078).
- Nate Libby Masonry Co. crew placed concrete masonry blocks on elevator shaft walls and east wall of the Apparatus Bay. Refer to Photo 3 (0075) and Photo 4 (0077).
- Goodwin Well Drilling Co. crew reamed out geothermal well No. 2, installed piping and grouted well No. 2. Second crew continued reaming out well No. 6. Refer to Photo 5 (0084).
- Davis Erectors Co. crew installed decking on roof.
- B.H. Millekin Electric Co. crew installed under slab electrical conduits in the Apparatus Bay and in masonry walls of stairwell No. 2. Refer to Photo 6 (0083).

August 31, 2010

- Peters Construction Co. crew backfilled over trench drain piping in Apparatus Bay, excavated trenches for the sanitary piping for Titan Mechanical Co. crew. Refer to Photo 7 (0115).
- Titan Mechanical Co. crew installed under slab sanitary piping in the Apparatus Bay. Refer to Photo 8 (0110).
- Nate Libby Masonry Co. crew installed concrete masonry blocks on the east wall of the Apparatus Bay and in the mock up wall installation. Refer to Photo 9 (0108).
- Goodwin Well Drilling Co. crew reamed out geothermal well No. 5, having some difficulty keeping open, and grouted No. 5. Second crew set-up on well No. 4. Refer to Photo 10 (0107).
- Davis Erectors Co. crew installed second floor decking in the Administration area. Refer to Photo 11 (0109).
- B.H. Millekin Electric Co. crew installed ground wire and CAD welded to ground rods driven in the Administration area subgrade of the Fire Station. Refer to Photo 12 (0114).

September 1, 2010

- Peters Construction Co. crew excavated excess material from the subgrade of the Apparatus Bay. Refer to Photo 13 (0139).
- Titan Mechanical Co. crew relocated the sanitary piping under the slab in the Administration area not located correctly. Refer to Photo 14 (0140).
- Nate Libby Masonry Co. crew installed masonry blocks on the north wall of the Apparatus Bay and grouted bond beam in stairwell walls. Refer to Photo 15 (0138).
- Goodwin Well Drillers Co. crew grouted geothermal well No. 5. Second crew reamed out geothermal well No. 3 and set-up on geothermal No. 6. Refer to Photo 16 (0126).
- Davis Erectors Co. crew welded decking on roof and concrete stops on decking. Refer to Photo 17 (0132).
- B.H. Millekin Electric Co. crew CAD welded ground wire to ground rods in subgrade of Administration area. Refer to Photo 18 (0136).
- Gillespie on-site to test geothermal well piping.

September 2, 2010

- Peters Construction Co. crew was not on-site.
- Titan Mechanical Co. crew relocated bathroom sanitary piping below slab grade in the Administration area. Refer to Photo 19 (0152).
- Nate Libby Masonry Co. crew installed concrete masonry blocks on the north wall of the Fire Station. Refer to Photo 20 (0156).
- Goodwin Well Drilling Co. crew reamed out well geothermal well No. 6 and grouted well. Refer to Photo 21 (0150).
- Davis Erectors Co. crew welded decking and structural bracing beams in the Administration area. Refer to Photo 22 (0159).
- B.H. Millekin Electrical Co. crew installed temporary lighting on first floor of Administration area.
- Dirago Drywall Co. crew installed parapet framing on roof decking of Administration area. Refer to Photo 23 (0158).

September 3, 2010

- Titan Mechanical Co. crew installed trap primer piping to the floor drains in the Administration area. Refer to Photo 24 (0166).
- Nate Libby Masonry Co. crew installed concrete blocks on the north wall of the Fire Station. Refer to Photo 25 (0162).
- Good Well Drilling Co. crew completed grout at all geothermal wells. Refer to Photo 26 (0163).
- Davis Erectors Co. crew completed anchoring and bracing decking and bay joists in the Administration area.
- B.H. Millekin Electric Co. crew installed temporary lighting on the first floor of the Administration area.
- Dirago Drywall Co. crew installed parapet framing on the roof framing in the Administration area. Refer to Photo 27 (0164).

Note: No major issues at this time.



Photo 1 (0076): Shows Peters Construction Co. crew

Photo 2 (0078): Shows Titan Mechanical Co. crew

grading subgrade in the Administrate area floor slab.



Photo 3 (0075): Shows Nate Libby Masonry Co. crew installing masonry blocks on elevator shaft walls.

installing sanitary piping in the Apparatus Bay.



Photo 4 (0077): Shows Nate Libby Masonry Co. crew installing concrete blocks on east wall of the Apparatus Bay.



Photo 5 (0084): Shows Goodwin Well Drilling Co. crews reaming out geothermal wells No. 2 and No. 6.



Photo 6 (0083): Shows B.H. Millekin Electric Co. crew providing electrical conduits for installation into masonry stairwell walls.



Photo 7 (0115): Shows Peters Construction Co. crew excavating trenches for sanitary piping in the Apparatus Bay.



Photo 8 (110): Shows Titan Mechanical Co. crew installing sanitary piping below slab elevation in the Apparatus Bay.



Photo 9 (0108): Shows Nate Libby Masonry Co. crew installing concrete blocks in east wall of the Apparatus Bay.



Photo 10 (0107): Shows Goodwin Well Drilling Co. crew reaming out geothermal well No. 5 and second crew setting up on well No. 3.



Photo 11 (0109): Shows Davis Erectors Co. crew installing decking on the second floor of the Administration area.



Photo 12 (0114): Shows B.H. Millekin Electric Co. crew installing ground wire and CAD welding to the ground rods in the Administration area of the Fire Station.



Photo 13 (0139): Shows Peters Construction Co. crew removing excess subgrade materials from the Apparatus Bay area.



Photo 14 (0140): Shows Titan Mechanical Co. crew relocating under slab sanitary pipe in the Administration area not located correctly.



Photo 15 (0138): Shows Nate Libby Masonry Co. crew installing concrete blocks on north wall of the Apparatus Bay.



Photo 16 (0126): Shows Goodwin Well Drilling Co. crew reaming out geothermal wells No. 3 and No. 5.



Photo 17 (0132): Shows Davis Erectors Co. crew welding roof decking and concrete stop on second floor decking.



Photo 18 (0136): Shows B.H. Millekin Electric Co. crew CAD welding ground wire to ground rods in Administration area.



Photo 19 (0152): Shows Titan Mechanical Co. crew relocating bathroom sanitary subslab piping in the Administrative area.



Photo 20 (0156): Shows Nate Libby Masonry Co. crew installing concrete blocks north wall of Fire Station.



Photo 21 (0150): Shows Goodwin Well Drilling Co. crew reaming out geothermal well No. 6 and No. 1.



Photo 22 (0159): Shows Davis Erectors Co. crew welding roof decking.



Photo 23 (0158): Shows Dirago Drywall Co. crew installing parapet framing on roof decking area of the Administration area.



Photo 24 (0166): Shows Titan Mechanical Co. crew installed trap primers to the floor drains in the Administration area.



Photo 25 (0162): Shows Nate Libby Masonry Co. crew installing concrete blocks on north wall of the Fire Station.



Photo 26 (0163): Shows Goodwin Well Drilling Co. crew installing geothermal piping in well No. 6.



Photo 27 (0164): Shows Dirago Drywall Co. crew installing parapet framing on the roof framing in the Administration area.