

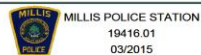
Town of Millis

Police & Fire Station Project

MONTHLY PROGRESS REPORT

Report No. 7

DECEMBER, 2015



MILLIS POLICE STATION
19416.01
03/2015

PERSPECTIVE VIEW



CDR MAGUIRE

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Executive Summary – Project Overview:

- Abatement work was completed on Nov. 18th. and excavation crews remobilized on Nov. 30th.
- Excavation for footings began November 30th. down to the contract limit, after which, any required over excavation to remove organic soils was directed by both Briggs' and CDR's Geotechnical Engineers. The amount of over excavation was documented and the unit price of \$60/CY to remove organics & replace with "engineered fill" will be applied.
- Another area of petroleum contamination was discovered near the main entrance to the new building. Sovereign LSP quickly responded and crews mitigated the 76 CY of additional soils.
- A topo was done upon completion of the ACM decontamination removal used to determine the amount of additional "engineered fill" required beyond the contract amount. CDR performed a computer modeling that showed approx. 80CY of additional fill will be needed and the unit price of \$60/CY will be applied.
- Agostini's Superintendent provides the Millis Building Inspector with required copies of inspections and reports.
- The PBC engaged the services of Simpson Gumperitz & Heger (SGH) to perform a peer review of CDR's Geotechnical Reports on the organic soil layer discovered over 2/3's of the building footprint. On December 3rd. the report was received and contained certain recommendations for technical analysis of the organics. Those tests will determine whether the organic layer can remain in place under slab areas as originally recommended by CDR.
- On Dec. 4th. the Millis PM directed CDR to respond to SGH's recommendations and complete the designated tests by June 11th.
- CDR replied on Dec. 8th. and distributed their response at a regular meeting of the PBC. CDR then failed to meet the June 11th deadline for test analysis and as a result, backfilling began. The Millis PM advised CDR they continue to be delinquent in meeting Owner specified timetables and as such, will be held accountable for any impacts to the project. CDR continues to maintain, that the organics are "unforeseen" and Designer work associated with it is extra compensation.
- On Dec. 21st. a letter was received from CDR regarding the testing on two organic samples they obtained on Dec. 17th. This letter explained the details of the testing performed and CDR's recommended options in dealing with the organic layer. The Millis PM found CDR's response vague and inconclusive, thereby suggesting an approach that cannot accurately predict whether settlement might occur or how problematic it would be.
- On Dec. 23rd. a letter from CDR was received that recommended installing a geogrid two-feet below slab to help mitigate settlement of the underlying organic layer.
- Because backfilling was an ongoing operation, the installation of geogrid at two-feet would cause rework & delays. So on Dec 28th. CDR revised their recommendation to specify geogrid at 12" below slab.
- SGH is currently evaluating this recommendation and Agostini is pricing the change request.

Issues or Concerns:

- The site continues to reveal unforeseen subsurface conditions such as uncharted drain pipes and additional petroleum contaminated soils.
- The option to install a “geogrid” system will have a monetary impact and likely affect the schedule at a time where the Contractor is pushing to install the concrete slab.
- Need Town Counsel filing of Access Board Waiver as a deed restriction so the building permit for MFD can be obtained.
- Neighbor to project on Auburn Road stated a concern about vibrations felt within the home due to vibratory compaction equipment. The PM sought advice from Agostini & the PBC, noting no pre-construction surveys had been performed at any adjacent property.

Schedule Status:

- The revised Construction Schedule issued 11/16/15 by the CM now shows a 11/3/16 completion date for the Police Station ; and a 5/3/17 completion for the Fire Station.
- Agostini will present their revised schedule and narrative at the Jan 5th. PBC meeting.
- Agostini is looking into accelerating work within MFD apparatus bays and will submit a proposal soon.
- Agostini proposed working some Saturdays to help accelerate the schedule. The PBC recently approved \$15,000 for the “premium” portion of the overtime work. So far, crews worked one Saturday on formwork, but lost day due to snow & rain.
- The current Contractor’s two-month “Look Ahead” schedule reflects underslab utilities complete by Jan. 4th; pour concrete slab Jan. 11th; complete exterior masonry walls Jan. 25th; wood-framed exterior walls by Jan. 27th; and roof trusses complete by Feb. 8th.

Budget Status:

- The revised GMP amount was \$7,589,144.
- Change Order #3 was recently approved by the BOS
 - \$521,236 total for asbestos decontamination work
 - \$64,168 for extended general conditions due to delay
 - \$22,419 for truck wash & fencing
 - \$16,120 for add'l petroleum mitigation
 - \$2377 credit for VE of roof trusses
 - \$621,566. TOTAL**

Therefore new GMP is now **\$8,210,710.48**

Highlights of Construction Activities:

- Forming of footings began Dec. 1st. and the first footing pour occurred on Dec 8th. The first wall pour occurred on Dec. 14th. All foundation work was completed by Dec.31st
- Backfilling of footings and foundations began on Dec. 11th. and tested for compaction by Briggs technicians.
- Underground installation of plumbing and sprinkler lines began Dec.21st.
- Underground infiltration systems were installed and inspected by both CDR's Civil and BOH agent.
- The installation of the passive, underslab venting system is underway

Manpower Summary:

Sitework contractor included (1) foreman/operator, (1) laborer

Formwork crew includes (3) carpenters and (1) laborer

Plumbing crew included (3) plumbers

Sprinkler crew included (2) pipefitters

PHOTOS



UNFORESEEN DRAINLINE DISCOVERED 12-1-15



CREWS APPLYING OXIDIZER AT PETROLEUM MITIGATED AREA 12-3-15



FOUNDATION BACKFILLING 12-16-15



INFILTRATION SYSTEM DW-1 12-17-15



TOWER PIER FOOTING WITH SHEAR WALL ANCHORS 12-21-15



FIRE PROTECTION & WATER SERVICE RISERS 12-21-15



2.5 to 3 FOOT LAYER OF ORGANICS IN GARAGE FOOTING LINE 12-23-15



STATE OF PROJECT AS OF 12-29-15