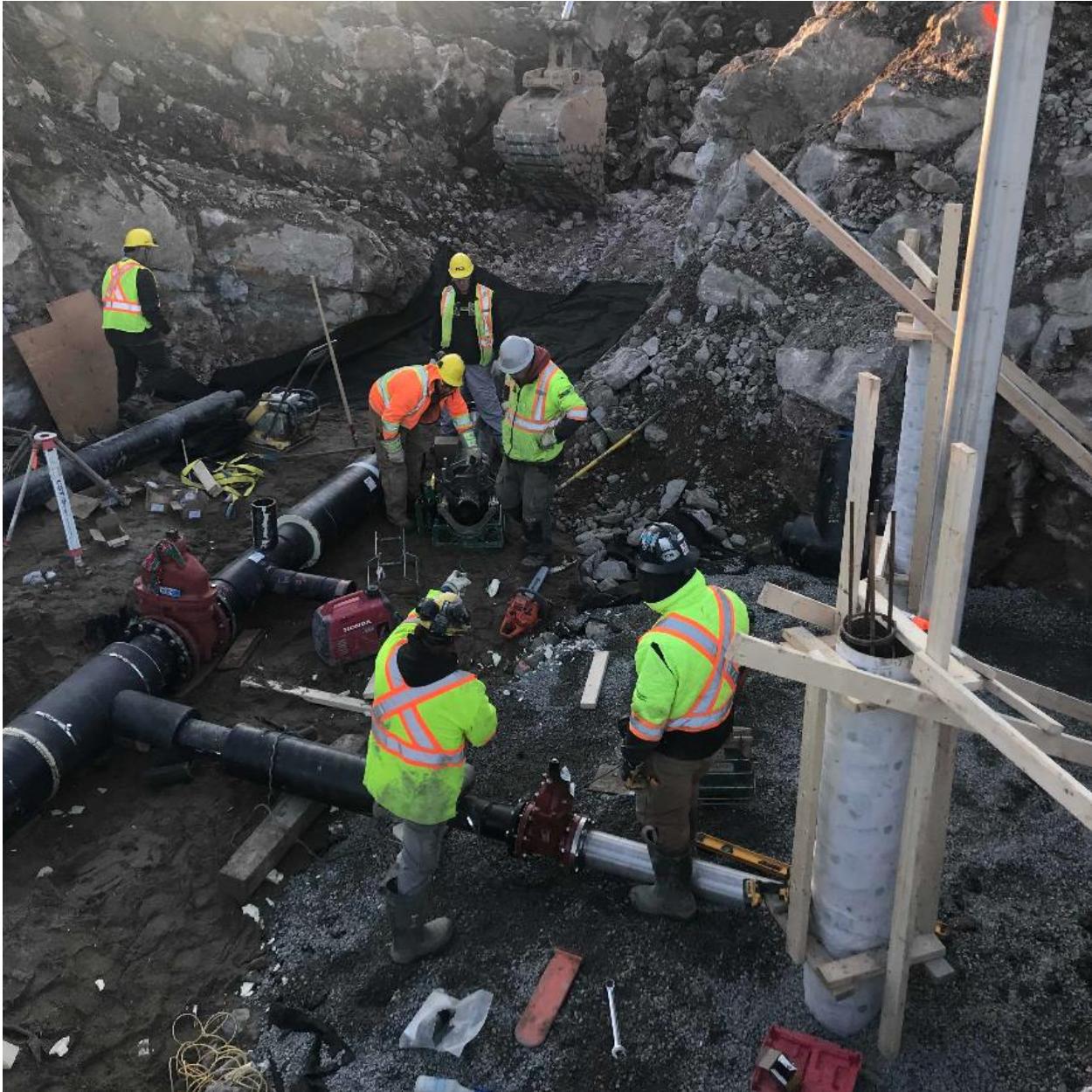


**19-10-23 – Weekly Project Update****19015A – CD1 - Offsite Sewer and Water**

Over the past week the drilling and blasting for the future truck fill building, turn around and future force main and water main was completed.



The piping work and the piers for the truck fill foundation have been doweled into the bed rock and forming has begun. The intention is that these piers will be poured towards the end of this week or early next week. Final shop drawings are being approved for small building components and once the piers are poured the building slab and structure will follow shortly. All concrete and building works should be completed by mid-November.



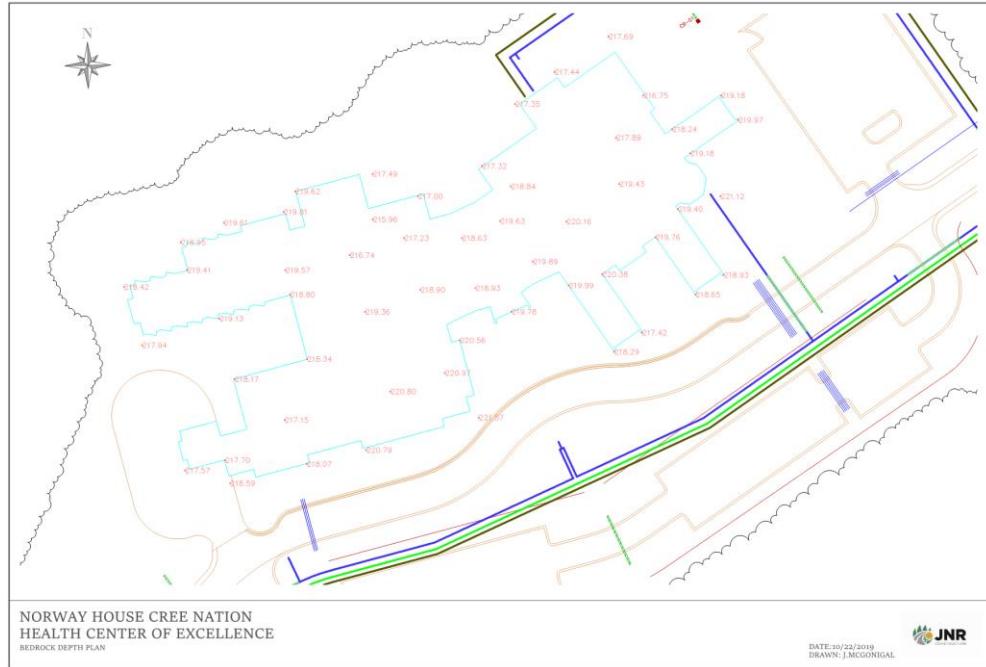
Over the next three days the sewer and water crew will be completing the road crossing at Jack River Road. A detour has been constructed so that traffic flow will not be interrupted and notices have been sent out to the radio station to issue notifications.

**19015C – CD2 – Onsite Sewer & Water**

In an effort to ensure the site at the professional accommodations stays dry during construction efforts an access road was established to the quarry. The quarry can be seen below as being full of water which may prove to be problematic if there are any underground seams in the rock or soil. Mitigating measures have been mobilized to site; specifically pumps and large amounts of discharge house should it be necessary to perform any dewatering operations.



Due to the unexpected depths of bed rock that were encountered in the professional accommodations a detailed test drilling program was completed at the HCE site. This information will be distributed and discussed in detail at upcoming HCE project meeting. A sketch of the rock elevations encountered can be seen below.



Further excavation has been completed on the east end of the building allowing for the continued installation of the pier foundations.





Over the past week the service connection line for the sweat lodge was cleared and the drilling and blasting completed as can be seen below.



The balance of other drilling and blasting for the piping alignment is now nearly complete along the entire alignment for the professional accommodations with the exception of the service line to the professional accommodation. There remain a few high spots of rock that still need to be blasted. The drilling and blasting should be completed within the next week.



Going forward this week the sewer and water installation crews will be moving full speed ahead installing force main and water main along the access road alignment. Upon crossing the road from the offsite sewer and water the piping works will progress towards the HCE and then eventually to the professional accommodations. Enough sand and back fill materials have been hauled and stockpiled onsite to allow this work to progress without interruption. It is anticipated that the sewer and water mainline installation should take approximately 3-4 weeks to complete.

In addition to the mainline JNR has been instructed to complete the stub out connections for future servicing of the UCN Garage, local residential housing projects and future building pad sites.

Respectfully,

Sean Campbell  
Project Manager  
JNR Construction