



Change Order 1 Rain Days/Impact Days/Covid Delays

To All:

T.A. Loving Company has faced many obstacles in the past year dealing with the Covid-19 outbreak as well as our suppliers and subcontractors on the Northeast Brunswick WWTP Facility Expansion. Our estimated completion date of the project at this time is January 3, 2022. Attached to this letter, are letters from our suppliers stating the struggles and delays that they have incurred during the past year which directly affects the schedule of this job. On top of material delays, we have experienced T.A. Loving crews as well as crews from our subcontractors being out of work due to the Covid-19 outbreak. Below is a list of crews being out sick which has delayed this job.

5/4/20 to 5/12/20, 5/18/20 to 6/1/20 National Erectors had a crew out due to the virus. National Erectors is our formwork and rebar subcontractor, so this crew being out during these times directly affects the job as we were not able to install any rebar or formwork to be able to get a concrete pour ready. During this time National Erectors was working on forming up the oxidation ditch walls. The oxidation ditch structure has been on the critical path of this project since the beginning of this job. Please see attached critical path schedule.

6/8/20 to 6/12/20 T.A. Loving Company had a crew out during this time. Losing one of our crews causes a delay in production. We were not able to replace this crew with another crew during this time. Since this is such a big job with a very tight schedule it is very important to have multiple crews onsite to be able to meet production needs. Losing one crew directly effects the schedule as the planned tasks were not able to be achieved during this time. The T.A. Loving crew that we lost during this time was working on the formwork of the ATAD Reactor foundation slabs. These slabs were on the critical path of the schedule during this time. See attached schedule.

7/9/20 to 7/14/20 Precon lost their whole crew during this time. Precon was not able to get any work done during this time which effected our schedule as wells as Precon's schedule. During this time Precon was working on the ATAD Holding Basins and the EQ Tank. The EQ Tank is one of the first structures that needs to be complete in order to start up the plant. This structure has been and continues to be part of the critical path schedule for the project.

The total delay due to crews being out sick is 5 weeks however as some of these delay days coincided with rain and/or weather impact delay days, T.A. Loving Company is requesting 27 days being added to the contract for these delays.

During the start of this job there has been many rain events which directly effected the job. Rain causes production to come to a stop no matter how much it rains. On this job there has been excavations up to 35' deep. When it rains, the bottom of these excavations fills up with water. Work can not continue until all this water is pumped out and the excavation is dry. In some cases, this can take a full day. There have also been times when rainwater has washed mud into a newly formed slab area. It takes days to clean this mud out and to repair formwork. This rework must be done to deliver a quality product. Along with this letter is pictures of water on the jobsite due to rain events and areas where rainwater destroyed formwork. Also, attached is a spreadsheet listing all the rain events we have had



onsite as well as the correlating impact days. T.A. Loving would like to request 47 days be added to the contract time for rain/impact days.

Another issue that has impacted the project schedule is the additional excavation and backfill work at many structures. Prior to bid, the soils report indicated only two structures required replacement of existing bearing soil with two feet of stone. The reason for this replacement was that the existing soils at those bearing elevations were not suitable for supporting the intended structure. Once excavations for other structures were completed and bearing grades were achieved, the geotechnical third party inspector (ECS Southeast, LLP) inspected those soils as required by contract. They too were found to be incapable of supporting the intended structures and thus an additional 2 to 3 feet of soils was excavated and replace with stone. The time necessary to do the additional excavation and soil replacement work was unforeseen at the time of bid and thus T.A. Loving Company is requesting additional time to be added to the contract for that additional work. As a note, when excavations go deeper, there are consequences that need to be dealt with. For safety, excavation slopes need to be maintained and meet OSHA requirements which take into account the type of soil being excavated. For this reason, when a Contractor excavates deeper, the entire perimeter of the excavation gets larger to maintain the slope which again increases the amount of work and time. Additionally, a deeper excavation will produce more ground water that has to be controlled which again is more effort and time. Attached to this letter is a spreadsheet showing all of the undercuts and additional stone needed for each structure and the additional days it took to achieve. T.A. Loving is requesting that 33 days be added to the contract for all of the additional undercut and additional stone.



T.A. Loving Company is dedicated to providing a high-quality product while also finishing this project on time. The past year has posed many obstacles due to the Covid-19 outbreak as well as rain events that have occurred. T.A. Loving is requesting a total of 71 days be added to the contract due to the delays we have experienced from Covid/rain up to this date. This has been a very fast paced project and T.A. Loving Company has done everything we can as a company to meet production needs and to keep this project moving forward. We would like to thank McKim & Creed and Brunswick County Public Utilities Authority for all their hard work in helping us provide a quality wastewater plant system for the people of Brunswick County.

Equipment being delivered onsite and on time plays a major role in the schedule of any construction project. Due primarily to Covid related plant closures, the delivery of several pieces of equipment have and continue to be delayed. T.A. Loving company has and will continue to work around equipment delivery delays to keep the job moving and to hopefully minimize schedule impacts. At this time, T.A. Loving is not requesting any time due to equipment delays as the scope of this impact is on going and indeterminable at this time. Additional contract time may be requested at a later date once all equipment has arrived and the scope of the impact is known.

A handwritten signature in black ink, appearing to read 'Chase Hartley', is written over a horizontal line. The signature is fluid and cursive, with the first name 'Chase' being more legible than the last name 'Hartley'.

5-27-21

Chase Hartley

T.A. Loving Signature

Date