

WORK CHANGE DIRECTIVE NO.: 7

Owner: City of Greenfield
Engineer: Commonwealth Engineers, Inc.
Contractor: FA Wilhelm Co., Inc.
Project: Greenfield WWTP Improvements
Contract Name: City of Greenfield – Wastewater Treatment Plant Improvements
Date Issued: 2/22/2023 Effective Date of Work Change Directive: 2/22/2023

Owner's Project No.:
Engineer's Project No.: W20046
Contractor's Project No.:

Contractor is directed to proceed promptly with the following change(s):

Description:

The intent of this work change directive is to address the procedure required moving forward to complete the excavation and subgrade preparation of the new sludge processing building.

Attachments:

Sludge Building – Revised General Undercutting diagram (1 page)

Purpose for the Work Change Directive:

- Excavate clean soil, combination soil of clean and debris, as well as debris only soil and transport to landfill for disposal. Waste Management invoices for will be paid by Wilhelm.
- Water will be pumped to the plant as directed by plant staff. Discharge of water to the manhole will be established to maximize air stripping. Flow rates and timing shall be coordinated with plant staff.
- Once “clean and acceptable” soil is reached, SME will confirm via visible inspection from the top of slope, the acceptability of material to begin backfilling. Entrance into the excavation is not anticipated and, if necessary, may require additional measures.
- Backfill will consist of:
 - Barrier layer placed in the layback area of the excavation. This material can come from the onsite pile west of trailers or the Influent Pump Station excavation.
 - #53's beneath the building footprint and extending vertically at 10' (or D/2 if deeper than 20' total D) beyond (all sides) the building foundation.
 - Material from the adjacent “dirty” pile will be placed in the excavation layback if it is free from trash and debris.
 - If water is encountered, #2 stone can be used in the saturated area to eliminate the need to compact #53s in water. This layer cannot exceed two (2) feet in thickness.
- The adjacent dirty stockpile may need to partially move depending on the limits of the excavation.
- The City is awaiting a decision from IDEM regarding the ability to move the “dirty” stockpile and place it at the Davis Road site. If approved, this could be coordinated at the same time to improve efficiency (i.e., double handling material).
- Compaction testing of material placed will be performed by Alt and Witzig and tracked by Wilhelm. Material above the bottom of foundation and outside of the building footprint will

require higher compaction to prevent potential settlement. Will be discussed when needed in the future.

- All work will be tracked with daily T&M tickets. Please verify records match and turn over daily to the on-site RPR.
- Please coordinate with CEI and SME to ensure an SME representative is available and on-site to observe and approve the stopping point and suitability of the clean soils BEFORE starting the stone backfill.
- If groundwater water is observed and placement of 2's is anticipated, please notify CEI and SME in writing. Please document with pictures. Please do not exceed two (2) feet in thickness with this later of 2's, if required.
- Please document entire operation with pictures in addition to daily reports and T&M tickets.

Sufficient information shall be provided to clearly document costs for the additional work required by this Work Change Directive. Following receipt and review of the requested change order cost information by the Owner, a Change Order shall be assembled and executed to formally approve the changes to the Contract outlined herein this Work Change Directive No. 7. Changes to the Contract outlined herein shall only be accepted upon final execution of a future Change Order.

Directive to proceed promptly with the Work described herein, prior to agreeing to change in Contract Price and Contract Time, is issued due to:

Notes to User—Check one or both of the following

Non-agreement on pricing of proposed change. Necessity to proceed for schedule or other reasons.


Estimated Change in Contract Price and Contract Times (non-binding, preliminary):


Contract Price: \$ _____ [increase] [decrease] [not yet estimated].

Contract Time: _____ days [increase] [decrease] [not yet estimated].

Basis of estimated change in Contract Price:

Lump Sum Unit Price Cost of the Work Other

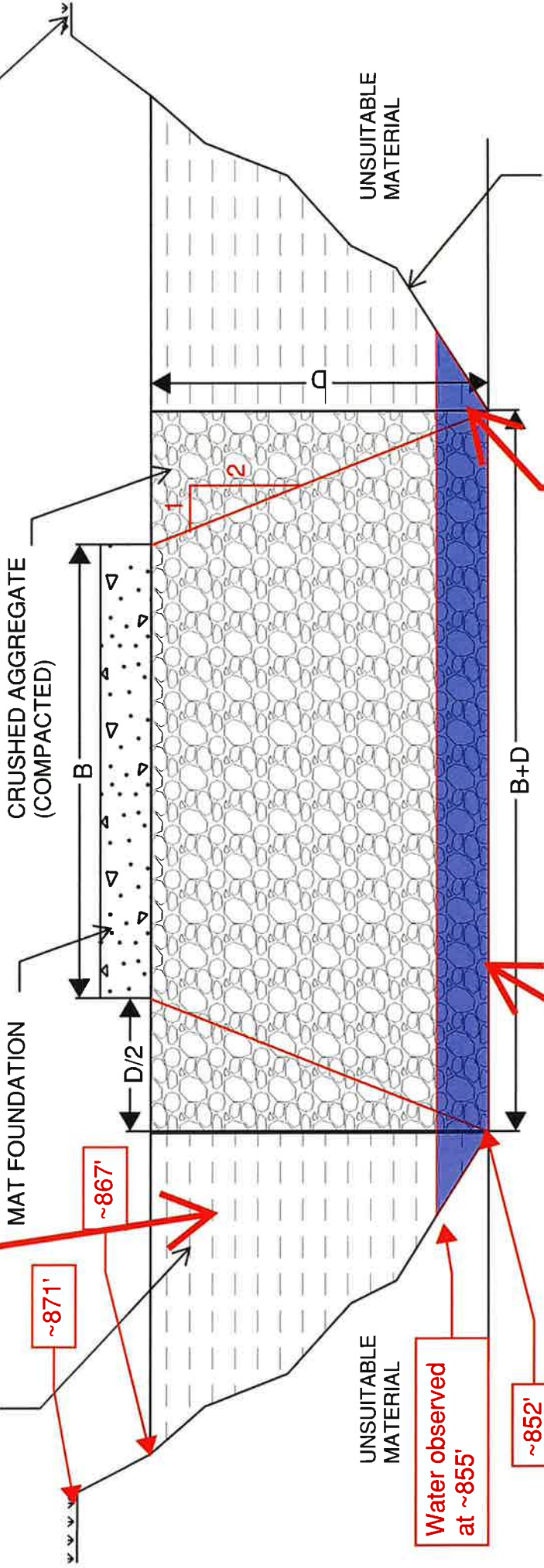
Recommended by Engineer
By: 
Title: Construction Manager
Date: 2/23/2023

Authorized by Owner

Wastewater Utility Manager
2/24/2023

**SLUDGE BUILDING - GENERAL UNDERCUTTING DIAGRAM
(NOT TO SCALE)**

Onsite fill above clay cap can be existing "dirty" stockpile. This material cannot have solid objects or debris. If so, this is the barrier needed between stone sub grade and surrounding contaminated soils.

ON-SITE FILL W/O DEBRIS
(COMPACTED MIN. 90%
STANDARD PROCTOR)



~871'

~867'

Water observed at ~855'

~852'

If needed, No. 2 stone can be used below groundwater. 2' thick layer Max.

Perimeter of excavation and between stone fill and onsite fill needs to be capped with 2' of clay (stockpile west of trailer or pump station excavation)

SLOPE IN ACCORDANCE WITH OSHA REQUIREMENTS AND FOR STABLE CONDITIONS