

Project Name: CANADA SUMMER GAMES 2021
Meeting Date: Thursday, February 6, 2020

Meeting Minutes No. 1
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Engineered Fill Subgrade Meeting Minutes

Location: 1813 Sir Issac Brock Way
St. Catharines, ON L2S 3A1
Site Super: Mario Facciuolo
Erik Schmidt

Permit No.
Cell Number: 416-524-4217
416-420-9939

Present:

David Schram	UEM Consulting (UEM)	dschram@uemconsulting.com
Eric D'Uva	UEM Consulting (UEM)	eduva@uemconsulting.com
Martin Wolfe	Wood Environment & Infrastructure Solutions (WOOD)	martinwolff2470@gmail.com
Saeed Ahmad	Wood Environment & Infrastructure Solutions (WOOD)	saeed.ahmad@woodplc.com
Jason Schooley	Upper Canada Planning and Eng. (UCC)	jschooley@ucc.com
Douglas Sills	Peters Construction Group (PE)	douglas@petersgroup.ca
Brad Augustine	Raimondo + Associates Architects (RA)	brad@raimondoarchitects.com
Mario Facciuolo	Aquicon Construction Co. Ltd. (AQ)	Mario.facciuolo@site.Aquicon.com
Erik Schmidt	Aquicon Construction Co. Ltd. (AQ)	Erik.schmidt@site.Aquicon.com

Copies to:

Matt Lamers	MacLennan Jaunkalns Miller Arch (MJMA)	MLamers@mjma.ca
Dan Kronby	MacLennan Jaunkalns Miller Arch (MJMA)	DKronby@mjma.ca
Emilio Raimondo	Raimondo + Associates Architects (RA)	emilio@raimondoarchitects.com
Nate Randle	Peters Construction Group (PE)	nate@petersgroup.ca
Stuart Randle	Peters Construction Group (PE)	stuart@petersgroup.ca
Michael Salij	Aquicon Construction Co. Ltd. (AQ)	Michael.Salij@aquicon.com
Robert Aquino	Aquicon Construction Co. Ltd. (AQ)	Robert.Aquino@aquicon.com

Note: If the information contained in this report does not agree with your record, or if there are any omissions, please advise us immediately otherwise we will believe the contents to be correct

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General Contractor Construction Health & Safety Policy:

SAFETY ISSUES: It is the Policy of General Contractor Construction Co. Ltd that all workers and visitors must wear mandatory Personal Protective Equipment (Headwear / Footwear / Hi-visibility garments) at all times on our projects. Safe Work Procedures and Job Safety Analysis must be completed and followed when conducting all work. All workers and visitors must sign in and out upon arrival and departure.

New Business:

Item	Subject	Action
1.1	The purpose of the meeting was to discuss the General Contractor concern regarding the current state of engineered fill within the building pad. General Contractor confirmed prior to placing any material the subgrade was proof-rolled, inspected and found to be satisfactory by Test & Inspection Agent. Prior to proceeding with placement of native material as engineered fill, Test & Inspection Agent approved the existing material for use. The material was spread and compacted by Excavation Contractor and inspected by Test & Inspection Agent.	INFO
1.2	It was suggested that due to the recent freeze/thaw cycle the engineered fill shows signs of failure. Test & Inspection Agent stated that the material used is moisture sensitive and advised that construction traffic will affect the continuity of engineered fill make up. General Contractor advised all present that temporary roads within the building pad, and around the exterior of the building using a Granular B limestone material has already been constructed in good faith with the intent to limit the construction traffic on the engineered fill as much as possible. However, General Contractor confirmed that access within the building pad is required in order to construct the building and meet the aggressive timelines of the construction schedule.	INFO
1.3	The question was raised regarding the effectiveness of the engineered fill performing when it dries out. Test & Inspection Agent stated that the material will perform as intended once the material is dry. The General Contractor advised that delaying progress on site to dry out material is not advisable or recommended due to the current seasonal weather and strict project constraints. General Contractor stated that the slab on grade prep must commence in early March 2020 as per schedule.	INFO

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- 1.4 Test & Inspection Agent offered several recommendations for Consultant review in order to proceed including: WOOD**
- 1. Introducing Geo Grid**
 - 2. Removing localized areas of engineered fill which has failed and rehabilitate**
 - 3. Limit all construction traffic to the outside of the building foot print as much as possible.**
- Test & Inspection Agent agreed to provide a full description of the recommendations mentioned and any other recommendations by mid next week (Feb/12/2020).**
- 1.5 General Contractor raised concerns regarding the interior service trenching and the installation of the service piping. Test & Inspection Agent will carry out inspection moving forward. WOOD INFO**
- 1.6 General Contractor raised concerns regarding the undocumented clay fills beneath the engineered fill. The sub excavation of the footings has proven that the existing clay fill material is not suitable for the bearing of the building footings. *Post Meeting Note:* The existing clay fill material is not described in the Bore Hole Report. General Contractor suggests that testing be done on this material. WOOD INFO**
- 1.7 Test & Inspection Agent stated that sub excavation of footings should be less on the west side of the building (Arenas). INFO**
- 1.8 Civil Consultant stated that the existing parking lots where the new building is located (including the new west parking lot and the outdoor running track) was constructed on fill about twenty years ago. Fill was believed to be imported from various locations throughout the area. There are no known records of this material or testing. INFO**

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- 1.9 All were advised that the clay fill material from the existing parking lot was used as engineered fill for the new east parking lot. According to Test & Inspection Agent, the temporary Brock parking lot seems to be holding up. The balance of the east parking lot is at a standstill due to the saturation levels of the engineered fill. Discussions of possibly adding a drainage system in the parking lots was had. Civil Consultant to advise. UCC**
- 1.10 Excavation Contractor advised all that the Outdoor Track sub grade is a fill and requires 100% compaction. This will not be achievable at this time because the fill material on site is unworkable. General Contractor stated that the track subgrade needs to be turned over to the track sub-contractor by no later than the end of May 2020 in order to meet the project schedule. INFO**
- 1.11 General contractor confirmed the Arena subgrades cut has been completed. Concerns of the existing clay fill and no weepers beneath the rink slab make up was raised. Consultants to review. MJMA
UCC**
- 1.12 NEXT COORDINATION MEETING: TBA ALL**