

Re: Swangard Stadium
 (Item 3, Report 92, December 10, 1973)
 (Item 23, Report 83, November 5, 1973)
 (Item 15, Report 75, October 9, 1973)
(Item 22, Report 15, February 25, 1974)

Council on February 25, 1974 received a comprehensive report on the feasibility of providing an alternate surface on the playing field of Swangard Stadium. Following considerable discussion of the matter, Council directed:

"THAT the complete reconstruction of the central and eastern portion of the field, including the drainage system, be undertaken as recommended by Ripley, Klohn and Leonoff International Limited and by Messrs. T.M. Lord and A.J. Green; and

THAT an underground, automatic irrigation system be installed at the same time that the corrective work is being undertaken at an estimated cost of \$10,000 and at the expense of the Central Park Committee."

The services of Ripley, Klohn and Leonoff International Limited (Soil Engineers) and Messrs. T.M. Lord and A.J. Green (Consulting Agronomists) have also been utilized by the Municipality for additional studies at the field and for the purpose of preparing plans and specifications for the renovations to Swangard Stadium. It is now proposed that these Consultants be engaged to supervise and inspect a good portion of the actual work that will have to be done to complete the required renovations.

Estimated costs for services to be rendered by the Consultants would be as follows:

<u>Consultant</u>	<u>Type of Service</u>	<u>Estimated Cost</u>
Ripley, Klohn & Leonoff	Inspection during reconstruction of the field.	\$3,000 to \$4,000.
Ripley, Klohn & Leonoff	Report revision, extensive weather analysis, preparation of plans and specifications, soil testing and other engineering work in connection with field drainage.	\$3,000
Messrs. Lord & Green	Provision of advice, preparation of specifications and supply inspection services in connection with the agronomic aspects of the work.	\$2,500
TOTAL		<u>\$8,500 - \$9,500</u>

All work that would be carried out by Ripley, Klohn and Leonoff would be carried out on a time basis in accordance with the Schedule of Charges that is attached to the Agreement. Fees for the performance of services performed by Messrs. Lord and Green would be charged at the rate of \$30 per hour.

The essential elements of the Soils Engineering and Agronomic services to be provided by the Consultants are as follows:

A. Ripley, Klohn and Leonoff International Limited

Services for studies, specification checking and inspection services with respect to the subsurface drainage aspect of the field design and reconstruction:

1. Revise the "Swangard Stadium - Subsurface Drainage Study" dated December 31, 1973 to make it consistent with changes in drainage pipe layouts and changes in the makeup of the upper rooting zone above the drainage layer.

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Re: Swangard Stadium - Cont'd.

A. Ripley, Klohn and Leonoff International Limited - Cont'd.

2. Review weather data to allow better assessment of the periods of time during which weather conditions may restrict the use of the field. A separate further report was prepared in this respect to evaluate the maximum possible percentage usage of the field during the year.
3. Review, modify and rewrite the specifications so that they meet the requirements set out in the revised report.
4. Intermittent inspection during all stages of field construction and full time inspection during the critical periods of placing the sand under drainage layer.

B. Messrs. Terence M. Lord and Alexander J. Green

Services to encompass only the Agronomic aspects of the reconstruction of the field at Swangard Stadium:

1. Inspection and approval of the sand and sawdust components to be used in the rooting layer prior to the off-site mixing of these components.
2. Inspection and approval of the sand-sawdust mixture prior to delivery on site to ensure that the sand and sawdust are thoroughly incorporated at the agreed ratio.
3. Testing of the fertility and permeability of the mixture to determine the kinds and amounts of fertilizer to be added to the sand-sawdust mixture, and any adjustments to the mixture to meet permeability specifications.
4. Inspection of the field site before, during and after the installation of the rooting mixture.
5. Inspection and approval of the finish grade prior to sodding.
6. Inspection and approval of the completed sodding.
7. Regular inspection of the completed project during the forty day maintenance period as specified by the Municipality.
8. Quarterly inspection and testing until the one year period from the laying of the turf is completed. (The Consultants will be available for consultation during the one year period; recommendations on maintenance will be given to the Municipality during this period).
9. Any other consultations or inspections as requested by the Municipality.

The Parks and Recreation Commission on April 3, 1974 passed a motion requesting Council to authorize the execution of the Agreements with the Consultants.

For the information of Council, tenders for the reconstruction of the field at the Stadium were advertised on March 23, 1974. Tenders will close on April 18, 1974.

RECOMMENDATIONS:

THAT authorization be given to execute the subject Agreements on behalf of the Municipality; and

THAT copies of this report item be forwarded for information purposes to the Canada Summer Games Society, Central Park Committee, City of New Westminster and Burnaby Parks and Recreation Commission.