

Division 1 - General Requirements

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Division 32 – Exterior Improvements

Section 32 18 23	Synthetic Track Resurfacing
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END OF SECTION

Site Works:

Drawing L-100 Layout Plan dated June 25, 2019.

Drawing L-200 Colour Rendering dated June 25, 2019.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Title and description of Work.
- .2 Contract Method.
- .3 Contractor use of premises.

1.2 RELATED SECTIONS

- .1 Canadian Construction Documents Committee (CCDC)
 - .1 CCDC 2- 2008, Stipulated Price Contract.

1.3 WORK COVERED BY CONTRACT DOCUMENTS

- .1 Without limiting the scope of work, the Contract includes all products, labour, equipment, materials and temporary facilities as required, or implied by the specifications to complete the Work, complete with all necessary incidentals.
- .2 The work involved in this contract includes, but is not limited to resurfacing of the existing track with 5mm of synthetic surfacing to the running track, javelin approach, triple jump and long jumps, trimming of the grass area to facilitate the installation of the track surfacing, reinstating all disturbed areas with topsoil and sod to meet flush with the new surfacing to provide positive drainage.
- .3 The following is a partial list of items, the cost of which are to be included in the stipulated price. No additional payment will be made for the following:
 - a) Cost of establishing site boundaries and project layout.
 - b) Applying for and paying for permits not identified for payment by the Owner.
 - c) Cost of providing and maintaining a field office (if deemed required by the contractor) and site privy or water closet unless a specific item for payment exists in the Schedule of Itemized Prices.
 - d) Cost of maintaining uninterrupted access to private properties that may be impacted by the construction.
 - e) Cost of coordination of any work that may be associated with utility companies who may be effected by the project, or may be required to perform work simultaneously with the work of this Contract.
 - f) Cost of normal roadway maintenance on existing roads and streets which may be effected by the Contractor's operations for the duration of the Contract.
 - g) Cost of supporting and protecting existing utilities and services.
 - h) Cost of preparing, maintaining, updating and providing a detailed project work schedule to the Consultant.
 - i) Cost of organization, maintenance and administration of a Project Safety Committee.
 - j) Cost of preparing and submitting any shop drawings, as may be required under this Contract
 - k) Cost of construction barricades, traffic permits, traffic control and construction signage

l) Cost of site layout.

.4 The contract works shall include, without limitation, the following:

- a) All labour, equipment, and material required to bring equipment and materials to the site, and to remove equipment and surplus materials from the site
- b) The supply, installation, maintenance and removal of the site office trailer if required at the discretion of the contractor.
- c) The supply, erection, maintenance and ultimate removal of all traffic control signs for detours, road closures, etc.
- d) All insurance requirements.

1.4 CONTRACT METHOD

.1 Construct the Work under a single stipulated price contract.

1.5 CONTRACTOR USE OF PREMISES

- .1 Contractor has unrestricted use of site until Substantial Performance.
- .2 Assume full responsibility for protection and safekeeping of products under this Contract.
- .3 Obtain and pay for use of additional storage or work areas needed for operations under this Contract.

2 PRODUCTS

.1 Not used.

3 EXECUTION

.1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Applications for payments.
- .2 Substantial performance procedures.
- .3 Release of holdback procedures.
- .4 Schedule of values.

1.2 REFERENCES

- .1 Owner/Contractor Agreement.
- .2 Canadian Construction Documents Committee (CCDC).
 - .1 CCDC 2- 2008, Stipulated Price Contract.

1.3 APPLICATIONS FOR PROGRESS PAYMENT

- .1 Refer to CCDC 2, GC 5.2.
- .2 Make applications for payment on account as provided on a monthly basis as Work progresses.
- .3 Date applications for payment last day of agreed monthly payment period and ensure amount claimed is for value, proportionate to amount of Contract, of Work performed and Products delivered to Place of Work at that date.
- .4 Submit to Consultant, at least 14 days before first application for payment. Schedule of values for parts of Work, aggregating total amount of Contract Price, so as to facilitate evaluation of applications for payment.

1.4 SCHEDULE OF VALUES

- .1 Refer to CCDC 2, GC 5.2.
- .2 Make schedule of values out in such form and supported by such evidence as Consultant may reasonably direct and when accepted by Consultant, be used as basis for applications for payment.
- .3 Include statement based on schedule of values with each application for payment.
- .4 Support claims for products delivered to Place of Work but not yet incorporated into Work by such evidence as Consultant may reasonably require to establish value and delivery of products.

1.5 PREPARING SCHEDULE OF VALUES

- .1 Itemize separate line item cost for each of following general cost items:
 - .1 Performance and Payment Bonds.
 - .2 Mobilization and Demobilization.
 - .3 Allowances
- .2 Itemize separate line item cost for Work associated with each line item within the schedule of unit rates.
- .3 Round off figures to nearest ten dollars.

1.6 PROGRESS PAYMENT

- .1 Refer to CCDDC 2, GC 5.3.
- .2 Consultant will issue to Owner, no later than 10 days after receipt of an application for payment, certificate for payment in amount applied for or in such other amount as Consultant determines to be properly due. If Consultant amends application, Consultant will give notification in writing giving reasons for amendment.

1.7 SUBSTANTIAL PERFORMANCE OF WORK

- .1 Refer to CCDDC 2, GC 5.4.
- .2 Prepare and submit to Consultant comprehensive list of items to be completed or corrected and apply for a review by Consultant to establish Substantial Performance of Work or substantial performance of designated portion of Work when [Work is substantially performed if permitted by lien legislation applicable to Place of Work designated portion thereof which Owner agrees to accept separately is substantially performed. Failure to include an item on list does not alter responsibility to complete Contract.
- .3 No later than 10 days after receipt of list and application, Consultant will review Work to verify validity of application, and no later than 7 days after completing review, will notify Contractor if Work or designated portion of Work is substantially performed.
- .4 Consultant shall state date of Substantial Performance of Work or designated portion of Work in certificate.
- .5 Immediately following issuance of certificate of Substantial Performance of Work, in consultation with Consultant, establish reasonable date for finishing Work.

1.8 PAYMENT OF HOLDBACK UPON SUBSTANTIAL PERFORMANCE OF WORK

- .1 Refer to CCDDC 2, GC 5.5.
- .2 After issuance of certificate of Substantial Performance of Work:
 - .1 Submit an application for payment of holdback amount.
 - .2 Submit sworn statement that all accounts for labour, subcontracts, products,

construction machinery and equipment, and other indebtedness which may have been incurred in Substantial Performance of Work and for which Owner might in any way be held responsible have been paid in full, except for amounts properly retained as holdback or as identified amount in dispute.

- .3 After receipt of application for payment and sworn statement, Consultant will issue certificate for payment of holdback amount.
- .4 Where holdback amount has not been placed in a separate holdback account, Owner shall, 10 days prior to expiry of holdback period stipulated in lien legislation applicable to Place of Work, place holdback amount in bank account in joint names of Owner and Contractor.
- .5 Amount authorized by certificate for payment of holdback amount is due and payable on day following expiration of holdback period stipulated in lien legislation applicable to Place of Work. Where lien legislation does not exist or apply, holdback amount is due and payable in accordance with other legislation, industry practice, or provisions which may be agreed to between parties. Owner may retain out of holdback amount any sums required by law to satisfy any liens against Work or, if permitted by lien legislation applicable to Place of Work, other third party monetary claims against Contractor which are enforceable against Owner.

1.9 PROGRESSIVE RELEASE OF HOLDBACK

- .1 Refer to CCDC 2, GC 5.6.
- .2 Where legislation permits, if Consultant has certified that Work of subcontractor or supplier has been performed prior to Substantial Performance of Work, Owner shall pay holdback amount retained for such subcontract Work, or products supplied by such supplier, on day following expiration of holdback period for such Work stipulated in lien legislation applicable to Place of Work.
- .3 Notwithstanding provisions of preceding paragraph, and notwithstanding wording of such certificates, ensure that such subcontract Work or products is protected pending issuance of final certificate for payment and be responsible for correction of defects or Work not performed regardless of whether or not such was apparent when such certificates were issued.

1.10 FINAL PAYMENT

- .1 Refer to CCDC 2, GC 5.7.
- .2 Submit an application for final payment when Work is completed.
- .3 Consultant will, no later than 10 days after receipt of an application for final payment, review Work to verify validity of application. Consultant will give notification that application is valid or give reasons why it is not valid, no later than 7 days after reviewing Work.

.4 Consultant will issue final certificate for payment when application for final payment is found valid.

2 PRODUCTS

.1 Not used.

3 EXECUTION

.1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Coordination Work with other subcontractors.
- .2 Scheduled preconstruction, progress, substantial completion, final completion and warranty meetings.

1.2 RELATED SECTIONS

- .1 Section 01 11 00- Summary of Work

1.3 DESCRIPTION

- .1 Coordination of progress schedules, submittals, use of site, temporary utilities, construction facilities, and construction Work.

1.4 PROJECT MEETINGS

- .1 Schedule and administer bi-weekly project meetings throughout progress of Wor] as determined by the Consultant.
- .2 Prepare agenda for meetings.
- .3 Distribute written notice of each meeting five days in advance of meeting date to Consultant and Owner.
- .4 Provide physical space and make arrangements for meetings.
- .5 Preside at meetings.
- .6 Record minutes. Include significant proceedings and decisions. Identify action by parties.
- .7 Reproduce and distribute copies of minutes within three days after each meeting and transmit to meeting participants, affected parties not in attendance Consultant and Owner.

1.5 CONSTRUCTION ORGANIZATION AND START-UP

- .1 Within 15 days after award of Contract, request a meeting of parties in contract to discuss and resolve administrative procedures and responsibilities.
- .2 Senior representatives of the Owner, Consultant, Contractor, major Subcontractors, field inspectors and supervisors will be in attendance.
- .3 Establish time and location of meeting and notify parties concerned minimum five days before meeting.

- .4 Incorporate mutually agreed variations to Contract Documents into Agreement, prior to signing.
- .5 Agenda to include following:
 - .1 Appointment of official representative of participants in Work.
 - .2 Schedule of Work and progress scheduling in accordance with Section 01 32 .13.19 – Construction Progress Schedule – Bar Chart.
 - .3 Schedule of submission of shop drawings, samples, colour chips in accordance with Section 01 33 00 - Submittal Procedures.
 - .4 Requirements for temporary facilities, site sign, offices, storage sheds, utilities, fences in accordance with Section 01 510 0 - Temporary Utilities.
 - .5 Site security in accordance with Section 01 52 00 - Construction Facilities.
 - .6 Proposed changes, change orders, procedures, approvals required, mark-up percentages permitted, time extensions, overtime, and administrative requirements (GC).
 - .7 Owner provided Products.
 - .8 Record drawings in accordance with Section 01 78 00 - Closeout Submittals.
 - .9 Take-over procedures, acceptance, and warranties in accordance with Section 01 77 00 - Closeout Procedures and 01 78 00 - Closeout Submittals.
 - .10 Monthly progress claims, administrative procedures, photographs, and holdbacks (GC).
 - .11 Appointment of inspection and testing agencies or firms in accordance with Section 01 45 00 - Quality Control.
 - .12 Insurances and transcript of policies (GC).
- .6 Comply with Consultant's allocation of mobilization areas of site; for field offices, access, traffic, and parking facilities.
- .7 Comply with instructions of Consultant for use of temporary utilities and construction facilities.

1.6 ON-SITE DOCUMENTS

- .1 Maintain at job site, one copy each of the following:
 - .1 Contract drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Reviewed shop drawings.

- .5 Change orders.
- .6 Other modifications to Contract.
- .7 Field test reports.
- .8 Copy of approved Work schedule.
- .9 Manufacturers' installation and application instructions.

1.7 SCHEDULES

- .1 Submit preliminary construction progress schedule in accordance with Section 01 32 16.19 - Construction Progress Schedule – Bar Chart to Consultant.
- .2 After review, revise and resubmit schedule to comply with revised project schedule.
- .3 During progress of Work revise and resubmit as directed by Consultant.

1.8 CONSTRUCTION PROGRESS MEETINGS

- .1 During course of Work and two weeks prior to project completion, schedule progress meetings bi-weekly.
- .2 Contractor, major subcontractors involved in Work and Consultant and Owner are to be in attendance.
- .3 Notify parties minimum five days prior to meetings.
- .4 Record minutes of meetings and circulate to attending parties and affected parties not in attendance within three days after meeting.
- .5 Agenda to include following:
 - .1 Review, approval of minutes of previous meeting.
 - .2 Review of Work progress since previous meeting.
 - .3 Field observations, problems, conflicts.
 - .4 Problems which impede construction schedule.
 - .5 Review of off-site fabrication delivery schedules.
 - .6 Corrective measures and procedures to regain projected schedule.
 - .7 Revision to construction schedule.
 - .8 Progress schedule, during succeeding work period.
 - .9 Review submittal schedules: expedite as required.
 - .10 Maintenance of quality standards.
 - .11 Review proposed changes for affect on construction schedule and on completion

date.

.12 Other business.

1.9 SUBMITTALS

- .1 Make submittal to Consultant for review.
- .2 Submit preliminary shop drawings, product data and samples [in accordance with Section 01 33 00 – Submittals for review for compliance with Contract Documents; for field dimensions and clearances, for relation to available space, and for relation to Work of other contracts. After review, revise and resubmit for transmittal to Consultant.
- .3 Submit requests for payment for review, and for transmittal to Consultant.
- .4 Submit requests for interpretation of Contract Documents and obtain instructions through Consultant.
- .5 Process substitutions through Consultant.
- .6 Process change orders through Consultant.
- .7 Deliver closeout submittals for review and preliminary inspections, for transmittal to Consultant.

1.10 COORDINATION DRAWINGS

- .1 Provide information required by Consultant for preparation of coordination drawings.
- .2 Review and approve revised drawings for submittal to Consultant.

1.11 CLOSEOUT PROCEDURES

- .1 Notify Consultant when Work is considered ready for Substantial Performance.
- .2 Accompany Consultant and Owner on preliminary inspection to determine items listed for completion or correction.
- .3 Comply with Consultant's instructions for correction of items of Work listed in executed certificate of Substantial Performance.
- .4 Notify Consultant of instructions for completion of items of Work determined in Consultant's final inspection.

2 PRODUCTS

- .1 Not used.

3 EXECUTION

- .1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Schedule, form, content.
- .2 Staged construction.
- .3 Scheduled revisions.
- .4 Critical path scheduling.

1.2 RELATED SECTIONS

- .1 Section 01 77 00 - Closeout Procedures.

1.3 SCHEDULES REQUIRED

- .1 Submit schedules as follows:
 - .1 Construction Progress Schedule.
 - .2 Submittal Schedule for Shop Drawings and Product Data.
 - .3 Submittal Schedule for Samples.
 - .4 Submittal Schedule for timeliness of Owner furnished Products.
 - .5 Product Delivery Schedule.
 - .6 Cash Allowance Schedule for purchasing Products.
 - .7 Shutdown or closure activity.

1.4 FORMAT

- .1 Prepare schedule in form of a horizontal Gantt bar chart.
- .2 Provide a separate bar for each major item of work or operation.
- .3 Split horizontally for projected and actual performance.
- .4 Provide horizontal time scale identifying first and last work day of each week.
- .5 Format for listings: Chronological order of start of each item of work.
- .6 Identification of listings: By Item/Task description.

1.5 SUBMISSION

- .1 Submit initial format of schedules within 15 working days after award of Contract.
- .2 Submit schedules in electronic format, forward USB or email as a pdf file.

- .3 Consultant will review schedule and return review copy within five days after receipt.
- .5 Resubmit finalized schedule within five days after return of review copy.
- .7 Submit revised progress schedule with each application for payment.
- .8 Distribute copies of revised schedule to:
 - .1 Job site office.
 - .2 Subcontractors.
 - .3 Other concerned parties.
- .9 Instruct recipients to report to Contractor within five days, any problems anticipated by timetable shown in schedule.

1.6 CRITICAL PATH SCHEDULING

- .1 Include complete sequence of construction activities.
- .2 Include dates for commencement and completion of each major element of construction
- .3 Show projected percentage of completion of each item as of first day of month.
- .4 Indicate progress of each activity to date of submission schedule.
- .5 Show changes occurring since previous submission of schedule:
 - .1 Major changes in scope.
 - .2 Activities modified since previous submission.
 - .3 Revised projections of progress and completion.
 - .4 Other identifiable changes.
- .6 Provide a narrative report to define:
 - .1 Problem areas, anticipated delays, and impact on schedule.
 - .2 Corrective action recommended and its effect.
 - .3 Effect of changes on schedules of other prime contractors.

1.7 PROGRESS PHOTOGRAPHS

- .1 Provide site progress photos as specific in Section 01 45 00 – Quality Control

1.8 SUBMITTALS SCHEDULE

- .1 Include schedule for submitting shop drawings, product data, and samples.
- .2 Indicate dates for submitting, review time, resubmission time, last date for meeting fabrication schedule.

.3 Include dates when delivery will be required for Owner-furnished products.

.4 Include dates when reviewed submittals will be required from Consultant.

2 PRODUCTS

.1 Not used.

3 EXECUTION

.1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Shop drawings and product data.
- .2 Samples.
- .3 Certificates and transcripts.

1.2 RELATED SECTIONS

- .1 Section 01 32 00 - Construction Progress Documentation
- .2 Section 01 45 00 - Quality Control
- .3 Section 01 82 00 - Demonstration and Training
- .4 Section 01 78 00 - Closeout Submittals

1.3 REFERENCES

- .1 Canadian Construction Documents Committee (CCDC)
 - .1 CCDC 2- 2008, Stipulated Price Contract.

1.4 ADMINISTRATIVE

- .1 Submit to Consultant submittals listed for review. Submit with reasonable promptness and in orderly sequence so as to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for an extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .2 Work affected by submittal shall not proceed until review is complete.
- .3 Present shop drawings, product data, samples and mock-ups in SI Metric units.
- .4 Where items or information is not produced in SI Metric units converted values are acceptable.
- .5 Review submittals prior to submission to Consultant. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and co-ordinated with requirements of Work and Contract Documents. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined and shall be considered rejected.
- .6 Notify Consultant, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .7 Verify field measurements and affected adjacent Work are coordinated.
- .8 Contractor's responsibility for errors and omissions in submission is not relieved by Consultant's review of submittals.
- .9 Contractor's responsibility for deviations in submission from requirements of Contract

Documents is not relieved by Consultant review.

- .10 Keep one reviewed copy of each submission on site.

1.5 SHOP DRAWINGS AND PRODUCT DATA

- .1 Refer to CCDC 2 GC 3.11.
- .2 The term "shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of Work.
- .3 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been coordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.
- .4 Allow five days for Consultant's review of each submission.
- .5 Adjustments made on shop drawings by Consultant are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Consultant prior to proceeding with Work.
- .6 Make changes in shop drawings as Consultant may require, consistent with Contract Documents. When resubmitting, notify Consultant in writing of any revisions other than those requested.
- .7 Accompany submissions with transmittal letter, in containing:
 - .1 Date.
 - .2 Project title and number.
 - .3 Contractor's name and address.
 - .4 Identification and quantity of each shop drawing, product data and sample.
 - .5 Other pertinent data.
- .8 Submissions shall include:
 - .1 Date and revision dates.
 - .2 Project title and number.
 - .3 Name and address of:
 - .1 Subcontractor.
 - .2 Supplier.
 - .3 Manufacturer.

- .4 Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
- .5 Details of appropriate portions of Work as applicable:
 - .1 Fabrication.
 - .2 Layout, showing dimensions, including identified field dimensions, and clearances.
 - .3 Setting or erection details.
 - .4 Capacities.
 - .5 Performance characteristics.
 - .6 Standards.
 - .7 Operating weight.
 - .8 Wiring diagrams.
 - .9 Single line and schematic diagrams.
 - .10 Relationship to adjacent work.
- .9 After Consultant's review, distribute copies.
- .10 Submit one hard copy and an electronic copy (pdf) of shop drawings for each requirement requested in specification Sections and as consultant may reasonably request.
- .11 Submit electronic copy in pdf format of product data sheets or brochures for requirements requested in specification Sections and as requested by Consultant where shop drawings will not be prepared due to standardized manufacture of product.
- .12 Delete information not applicable to project.
- .13 Supplement standard information to provide details applicable to project.
- .14 If upon review by Consultant, no errors or omissions are discovered or if only minor corrections are made, copies will be returned and fabrication and installation of Work may proceed. If shop drawings are rejected, noted copy will be returned and resubmission of corrected shop drawings, through same procedure indicated above, must be performed before fabrication and installation of Work may proceed.

1.6 SAMPLES

- .1 Submit for review as requested in respective specification Sections. Label samples with origin and intended use.
- .2 Deliver samples prepaid to Consultant's business address or the site office.
- .3 Notify Consultant in writing, at time of submission of deviations in samples from

requirements of Contract Documents.

- .4 Where colour, pattern or texture is criterion, submit full range of samples.
- .5 Adjustments made on samples by Consultant are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Consultant prior to proceeding with Work.
- .6 Make changes in samples which Consultant may require, consistent with Contract Documents.
- .7 Reviewed and accepted samples will become standard of workmanship and material against which installed Work will be verified.

1.7 MOCK-UPS

- .1 Erect mock-ups in accordance with 01 45 00 - Quality Control.

1.8 PROGRESS PHOTOGRAPHS

- .1 Submit progress photographs in accordance with Section 01 45 00 – Quality Control.

1.9 CERTIFICATES AND TRANSCRIPTS

- .1 Immediately after award of Contract, submit Workers' Compensation Board status and transcription of insurances.

2 PRODUCTS

- .1 Not used.

3 EXECUTION

- .1 Not used.

END OF SECTION

1 GENERAL

1.1 RELATED REQUIREMENTS

- .1 Information for Tenderers.

1.2 REFERENCES

- .1 Canada Labour Code, Par 2, Canada Occupational Safety and Health Regulations
- .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Make submittal in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Submit site specific Health and Safety Plan with 7 days after date of Notice to Proceed and prior to commencement of Work. Health and Safety Plan must include:
 - .1 Results of site-specific safety hazard assessment.
 - .2 Results of safety and health risk or hazard analysis for site tasks and operation.
- .3 Submit electronic copy of Contractor's authorized representatives work site health and safety inspection reports.
- .4 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .5 Submit copies of incident and accident reports.
- .6 Submit WHMIS MSDS sheet in accordance with specification section or as requested by the Consultant.
- .7 Owner will review Contractor's site-specific Health and Safety Plan and provide comments to Contractor within 5 days after receipt of plan. Revise plan as appropriate and resubmit plan to Owner within 5 days after receipt of comments.
- .8 Owner's review of Contractor's final Health and Safety plan should not be construed as approval and does not reduce the Contractor's overall responsibility for construction Health and Safety.
- .9 Submit on site Contingency and Emergency Response Plan: address standard operation procedures to be implemented during emergency situations.

1.4 FILING OF NOTICE

- .1 File Notice of Project with Provincial authorities prior to beginning or Work.

1.5 GENERAL REQUIREMENTS

- .1 Schedule and administer health and Safety meeting with the Owner as requested.

- .2 the Owner reserves the right to demand the implementation of safe work procedures or practices that will ensure at all tie the safe completion of work.

1.6 RESPONSIBILITY

- .1 Be responsible for health and safety of persons on site safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .2 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statues regulations, and ordinances, and with site specific health and safety plan.

1.7 UNFORESEEN HAZARDS

- .1 When unforeseen or peculiar safety relate factor, hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province or Territory having jurisdiction and advise Owner verbally and in writing.

1.8 HEALTH AND SAFETY COORDINATOR

- .1 Employ and assign to Work, competent and authorized representative as Health and Safety Coordinator. Health and Safety Coordinator must:
 - .1 Have site related working experience specific to activities associated with projects of similar type and scope.
 - .2 Have working knowledge of occupational safety and health regulations.
 - .3 Be responsible for completing Contractor's Health and Safety Training Sessions and ensuring that personnel not successfully completing required training are not permitted to enter site the perform Work.
 - .4 Be responsible for implementing, enforcing daily and monitoring site specific Contractor's Health and Safety Plan.

1.9 POSTING OF DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posed in conspicuous location on site in accordance with Acts and Regulation of Province or Territory having jurisdiction, and in consultation with Owner.
- .2 Site Identification – There shall be suitable signs posted at all entry points to the work site identifying the construction site, hard hat area, safety shoe requirements, or any other particular safety requirements. Signs shall be easily read with lettering a minimum of 75mm height.

1.10 PERSONAL PROTECTIVE EQUIPMENT

- .1 It is the responsibility of the Contractor and the subcontractors to develop, implement and post:
 - .1 Respirator program dealing with selection criteria of respirators, worker training in use, maintenance and storage of respirators.

- .2 Hearing protection program dealing with selection and use of hearing protection and identification and tagging of source of noise above 85dB.
- .3 Eye protection program dealing with selection and use of eye protectors and screening areas around arc welding etc.
- .4 Other protective equipment and clothing such as gloves, coveralls, fall arresting devices etc.

1.11 CORRECTION OF NON-COMPLIANCE

- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction, Owner or Consultant.
- .2 Provide Owner with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Owner or Consultant may stop Work in non-compliance of health and safety regulations is not corrected. The Contractor and the subcontractors are deemed responsible for any cost arising from such work stoppages.

1.12 REPORTING OF HAZARDOUS WORK CONDITIONS AND ACTS

- .1 The Contractor and the subcontractors shall implement a program establishing:
 - .1 Means for workers, including Owner's workers, to report hazardous conditions or unsafe act observed at the job site.
 - .2 Responsibilities of the job supervisor for implementing immediate remedial actions.
 - .3 Steps for workers to follow who refuse to work under conditions of perceived imminent danger.

1.13 MINIMUM WORK PRACTICE – PRODUCTS CONTAINING ASBESTOS

- .1 No materials containing asbestos shall be utilized on site.
- .2 Should material resembling spray or trowel applied asbestos be encountered in demolition work, stop work and notify the Owner immediately. Don't proceed until written instructions have been received from the Owner and Consultant.

1.14 REPORTING OF SERIUOS ACCIDENTS

- .1 It is required that the Contractor and the subcontractors investigate employee accidents in accordance with this section.
- .2 Serious accents must be reported immediately to the Contractor, Ministry of Labour, Owner and the Consultant.

2 PRODUCTS

.1 Not used.

3 EXECUTION

.1 Not used.

END OF SECTION

1 GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 33 00 – Submittal Procedures
- .2 Section 01 78 00 – Closeout Submittals

1.2 REFERENCES

- .1 Canadian Construction Documents Committee (CCDC)
 - .1 CCDC 2- 2008 , Stipulated Price Contract.

1.3 INSPECTION

- .1 Refer to CCDC 2, GC 2.3.
- .2 Allow Consultant access to Work. If part of Work is in preparation at locations other than Place of Work, allow access to such Work whenever it is in progress.
- .3 Give timely notice requesting inspection if Work is designated for special tests, inspections or approvals by Consultant instructions, or law of Place of Work.
- .4 If Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have inspections or tests satisfactorily completed and make good such Work.
- .5 Consultant may order any part of Work to be examined if Work is suspected to be not in accordance with Contract Documents. If, upon examination such work is found not in accordance with Contract Documents, correct such Work and pay cost of examination and correction. If such Work is found in accordance with Contract Documents, Owner shall pay cost of examination and replacement.

1.4 INDEPENDENT INSPECTION AGENCIES

- .1 Independent Inspection/Testing Agencies will be engaged by the Contractor for purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by the City and coordinated by the Contractor.
- .2 Provide equipment required for executing inspection and testing by appointed agencies.
- .3 Employment of inspection/testing agencies does not relax responsibility to perform Work in accordance with Contract Documents.
- .4 If defects are revealed during inspection and/or testing, appointed agency will request additional inspection and/or testing to ascertain full degree of defect. Correct defect and irregularities as advised by the Consultant at no cost to the Owner. Pay costs for retesting and reinspection.

1.5 ACCESS TO WORK

- .1 Allow inspection/testing agencies access to Work, off site manufacturing and fabrication plants.

- .2 Co-operate to provide reasonable facilities for such access.

1.6 PROCEDURES

- .1 Notify appropriate agency and Consultant in advance of requirement for tests, in order that attendance arrangements can be made.
- .2 Submit samples and/or materials required for testing, as specifically requested in specifications. Submit with reasonable promptness and in an orderly sequence so as not to cause delay in Work.
- .3 Provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.

1.7 REJECTED WORK

- .1 Refer to CCDC, GC 2.40.
- .2 Remove defective Work, whether result of poor workmanship, use of defective products or damage and whether incorporated in Work or not, which has been rejected by Consultant as failing to conform to Contract Documents. Replace or re-execute in accordance with Contract Documents.
- .3 Make good other Contractor's work damaged by such removals or replacements promptly.
- .4 If in opinion of the Consultant it is not expedient to correct defective Work or Work not performed in accordance with Contract Documents, Owner may deduct from Contract Price difference in value between Work performed and that called for by Contract Documents, amount of which shall be determined by the Consultant.

1.8 REPORTS

- .1 Submit (2) two hard copies and (1) Digital of inspection and test reports to the Consultant.
- .2 Provide copies to Subcontractor of work being inspected or tested and manufacturer or fabricator of material being inspected or tested.

1.9 TESTS AND MIX DESIGNS

- .1 Furnish test results and mix designs as may be requested.
- .2 The cost of tests and mix designs beyond those called for in Contract Documents or beyond those required by law of Place of Work shall be appraised by the Consultant and may be authorized as recoverable.

1.10 MOCK-UPS

- .1 Prepare mock-ups for Work specifically requested in specifications. Include for Work of all Sections required to provide mock-ups.
- .2 Construct in all locations acceptable to the Consultant.
- .3 Prepare mock-ups for Consultant's review with reasonable promptness and in an orderly

sequence, so as not to cause any delay in Work.

- .4 Failure to prepare mock-ups in ample time is not considered sufficient reason for an extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .5 If requested, the Consultant] will assist in preparing a schedule fixing dates for preparation.
- .6 Remove mock-up at conclusion of Work or when acceptable to Consultant.
- .7 Mock-ups may remain as part of Work.
- .8 Specification section identifies whether mock-up may remain as part of Work or if it is to be removed and when.

1.11 SHOP DRAWINGS AND PRODUCT DATA

- .1 The term "shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of Work.
- .2 Submit drawings stamped and signed by professional engineer registered or licensed in the Province of Ontario of Canada.
- .3 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been co-ordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.
- .4 Time allowed for Consultant's review of each submission to be determined at start-up meeting, but shall not exceed more than one (1) week.
- .5 Adjustments made on shop drawings by Consultant are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Consultant prior to proceeding with Work.
- .6 Make changes in shop drawings as Consultant may require, consistent with Contract Documents. When resubmitting, notify Consultant in writing of revisions other than those requested.
- .7 Submit electronic copy of shop drawings for each requirement requested in specification Sections and as Consultant may reasonably request.
- .8 Submit electronic copies of product data sheets or brochures for requirements requested in specification Sections and as requested by Consultant where shop drawings will not be prepared due to standardized manufacture of product.
- .9 Submit electronic copies of test reports for requirements requested in specifications.

1.12 SAMPLES

- .1 Submit for review samples as requested in respective specification Sections. Label samples with origin and intended use.

- .2 Deliver samples prepaid to Consultant's business address.
- .3 Notify Consultant in writing, at time of submission of deviations in samples from requirements of Contract Documents.
- .4 Where colour, pattern or texture is criterion, submit full range of samples.
- .5 Adjustments made on samples by Consultant are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Consultant prior to proceeding with Work.
- .6 Make changes in samples which Consultant may require, consistent with Contract Documents.
- .7 Reviewed and accepted samples will become standard of workmanship and material against which installed Work will be verified.

1.13 PHOTOGRAPHIC DOCUMENTATION

- .1 Submit electronic copy of colour digital photography in jpg or tif format, standard resolution as work progresses and at milestone events or to indicate issues to Consultant.
- .2 Project identification: name and number of project and date of exposure indicated.
- .3 Take a minimum of 10 photographs a week during construction of features currently under construction.
- .4 Submit a package of progress photos on a weekly basis to the Consultant. Images to be submitted electronically either via email or USB drive.

2 PRODUCTS

- .1 Not use.

3 EXECUTION

- .1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Temporary utilities.

1.2 RELATED SECTIONS

- .1 Section 01 52 00 - Construction Facilities
- .2 Section 01 56 00 - Temporary Barriers and Enclosures

1.3 INSTALLATION AND REMOVAL

- .1 Provide temporary utilities controls in order to execute work expeditiously.
- .2 Remove from site all such work after use.

1.4 DEWATERING

- .1 Provide temporary drainage and pumping facilities to keep excavations and site free from standing water. Cost shall be borne by Contractor.

1.5 WATER SUPPLY

- .1 Contract shall provide continuous supply of potable water for construction use.
- .2 Arrange for connection with appropriate utility company and pay all costs for installation, maintenance and removal.
- .3 Contractor shall for utility charges at prevailing rates.

1.6 TEMPORARY HEATING AND VENTILATION

- .1 Provide temporary heating required during construction period, including attendance, maintenance and fuel.
- .2 Construction heaters used inside building must be vented to outside or be non-flameless type. Solid fuel salamanders are not permitted.
- .3 Provide temporary heat and ventilation in enclosed areas as required to:
 - .1 Facilitate progress of Work.
 - .2 Protect Work and products against dampness and cold.
 - .3 Prevent moisture condensation on surfaces.
 - .4 Provide ambient temperatures and humidity levels for storage, installation and curing of materials.
 - .5 Provide adequate ventilation to meet health regulations for safe working environment.
- .4 Maintain temperatures of minimum 10 degrees C in areas where construction is in

progress.

- .5 Ventilating:
 - .1 Prevent accumulations of dust, fumes, mists, vapours or gases in areas occupied during construction.
 - .2 Provide local exhaust ventilation to prevent harmful accumulation of hazardous substances into atmosphere of occupied areas.
 - .3 Dispose of exhaust materials in manner that will not result in harmful exposure to persons.
 - .4 Ventilate storage spaces containing hazardous or volatile materials.
 - .5 Ventilate temporary sanitary facilities.
 - .6 Continue operation of ventilation and exhaust system for time after cessation of work process to assure removal of harmful contaminants.
- .6 Permanent heating system of building may be used when available. Be responsible for damage to heating system if use is permitted.
- .7 On completion of Work for which permanent heating system is used, replace filters, and clean all ductwork
- .8 Ensure Date of Substantial Performance and Warranties for heating system do not commence until entire system is in as near original condition as possible and is certified by Consultant.
- .9 Pay costs for maintaining temporary heat, when using permanent heating system]. Owner will pay utility charges when temporary heat source is existing building equipment.
- .10 Maintain strict supervision of operation of temporary heating and ventilating equipment to:
 - .1 Conform with applicable codes and standards.
 - .2 Enforce safe practices.
 - .3 Prevent abuse of services.
 - .4 Prevent damage to finishes.
 - .5 Vent direct-fired combustion units to outside.
- .11 Be responsible for damage to Work due to failure in providing adequate heat and protection during construction.

1.7 TEMPORARY POWER AND LIGHT

- .1 Contractor shall arrange and pay for temporary power during construction.
- .2 Arrange for connection with appropriate utility company. Pay all costs for installation, maintenance and removal.

- .6 Electrical power and lighting systems installed under this Contract may be used for construction requirements only with prior approval of Consultant provided that guarantees are not affected. Make good damage to electrical system caused by use under this Contract. Replace lamps which have been used for more than 3 months.

1.8 TEMPORARY COMMUNICATION FACILITIES

- .1 Provide and pay for temporary telephone/communications hook up necessary for own use.

1.9 FIRE PROTECTION

- .1 Provide and maintain temporary fire protection equipment during performance of Work required by insurance companies having jurisdiction and governing codes, regulations and bylaws.
- .2 Burning rubbish and construction waste materials is not permitted on site.

2 PRODUCTS

- .1 Not used.

3 EXECUTION

- .1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Office and sheds.
- .2 Parking.
- .3 Project identification.

1.2 RELATED SECTIONS

- .1 Section 01 51 00 - Temporary Utilities
- .2 Section 01 56 00 - Temporary Barriers and Enclosures

1.3 REFERENCES

- .1 Canadian Construction Documents Committee (CCDC)
 - .1 CCDC 2- 2008, Stipulated Price Contract.
- .2 Canadian General Standards Board (CGSB)
 - .1 CGSB 1-GP-189M- [84] , Primer, Alkyd, Wood, Exterior.
 - .2 CGSB 1.59- [96] , Alkyd Exterior Gloss Enamel.
- .3 Canadian Standards Association (CSA)
 - .1 CSA-0121- [M1978] , Douglas Fir Plywood.
 - .2 CAN3-Z321- [96] , Signs and Symbols for the Workplace.

1.4 INSTALLATION AND REMOVAL

- .1 Provide construction facilities in order to execute work expeditiously.
- .2 Remove from site all such work after use.

1.5 SITE STORAGE/LOADING

- .1 Refer to CCDC 2, GC 3.12.
- .2 Confine work and operations of employees by Contract Documents. Do not unreasonably encumber premises with products.
- .3 Do not load or permit to load any part of Work with a weight or force that will endanger the Work.

1.6 CONSTRUCTION PARKING

- .1 Parking will be permitted on site provided it does not disrupt performance of Work.
- .2 Provide and maintain adequate access to project site.

- .3 Build and maintain temporary roads where indicated or directed by Consultant and provide snow removal during period of Work.
- .4 If authorized to use existing roads for access to project site, maintain such roads for duration of Contract and make good damage resulting from Contractors' use of roads.

1.7 SECURITY

- .1 Provide and pay for responsible security personnel to guard site and contents of site after working hours and during holidays at the discretion of the Contractor.

1.8 OFFICES

- .1 Provide office heated to 22 C, lighted and ventilated, of sufficient size to accommodate site meetings and furnished with drawing laydown table.
- .2 Provide a clearly marked and fully stocked first-aid case in a readily available location.
- .3 Subcontractors may provide their own offices as necessary. Direct location of these offices.

1.9 EQUIPMENT, TOOL AND MATERIALS STORAGE

- .1 Provide and maintain, in a clean and orderly condition, lockable weatherproof sheds or containers for storage of tools, equipment and materials as required by the Works.
- .2 Locate materials not required to be stored in weatherproof sheds on site in a manner to cause least interference with work activities.

1.10 SANITARY FACILITIES

- .1 Provide sanitary facilities for work force in accordance with governing regulations and ordinances.
- .2 Post notices and take such precautions as required by local health authorities. Keep area and premises in sanitary condition.
- .3 When permanent water and drain connections are completed, provide temporary water closets and urinals complete with temporary enclosures, inside building. Permanent facilities may be used on approval of Consultant.

1.11 CONSTRUCTION SIGNAGE

- .1 Provide and erect, within three weeks of signing Contract, a project sign in a location designated by Consultant.
- .2 Construction sign 1200mm x 2400mm, of wood frame and plywood construction painted with exhibit lettering produced by a professional sign painter.

- .3 Indicate on sign, name and logo of Owner, Consultant name and logo, Contractor name and logo of a design style established by Consultant.
- .4 No other signs or advertisements, other than warning signs, are permitted on site.
- .5 Project Identification Site Sign:
 - .1 Provide project identification site sign comprising framing, and one 1200 x 2400mm signboard as detailed and as described below.
 - .1 Framework and battens: Select Structural White Spruce, Douglas Fir or Western Red Cedar, dressed 4 sides.
 - .2 Signboard: 19 mm Medium Density Overlaid Douglas Fir Plywood to CSA 0121.
 - .3 Paint: alkyd type, without silicone additives. Primer to CGSB 1-GP-189, enamel to CGSB 1.59.
 - .4 Fasteners: hot-dip galvanized carriage bolts.
 - .5 Vinyl sign face: printed project identification, self adhesive, vinyl film overlay, supplied by Contractor.
 - .2 Locate project identification sign as directed by Consultant and construct as follows:
 - .1 Erect framework, and attach signboard to framing as indicated.
 - .2 Paint all surfaces of signboard and framing with one coat primer and two coats enamel. Colour white on signboard face, black on other surfaces.
 - .3 Apply vinyl sign face overlay to painted signboard face in accordance with installation instruction supplied.
- .6 Safety and Instruction Signs and Notices:
 - .1 Signs and notices for safety and instruction shall be in both official languages Graphic symbols shall conform to CAN3-Z321.
 - .2 Maintain approved signs and notices in good condition for duration of project and dispose of off site on completion of project or earlier if directed by Consultant.

2 PRODUCTS

- .1 Not used.

3 EXECUTION

- .1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Barriers.
- .2 Environmental Controls.
- .3 Traffic Controls.
- .4 Fire Routes.

1.2 RELATED SECTIONS

- .1 Section 01 51 00 - Temporary Utilities
- .2 Section 01 52 00 - Construction Facilities

1.3 INSTALLATION AND REMOVAL

- .1 Provide temporary controls in order to execute Work expeditiously.
- .2 Remove from site all such work after use.

1.4 HOARDING

- .1 Utilize existing chainlink fence surrounding the site. Close any gaps using 1800mm height Modu-Loc fencing.
- .2 Provide one lockable truck entrance gate and at least one pedestrian door as directed and conforming to applicable traffic restrictions on adjacent streets. Equip gates with locks and keys.
- .3 Provide barriers around trees and plants designated to remain as per the Contract Drawings. Protect from damage by equipment and construction procedures.

1.5 GUARD RAILS AND BARRICADES

- .1 Provide secure, rigid guard rails and barricades around deep excavations, open shafts, open stair wells, open edges of floors and roofs.

1.6 ACCESS TO SITE

- .1 Provide and maintain access roads, sidewalk crossings, ramps and construction runways as may be required for access to Work.

1.7 PUBLIC TRAFFIC FLOW

- .1 Provide and maintain signal flag operators, traffic signals, barricades and flares, lights, or lanterns as required to perform Work and protect the public.

1.8 FIRE ROUTES

- .1 Maintain access to property including overhead clearances for use by emergency response vehicles.

1.9 PROTECTION FOR OFF-SITE AND PUBLIC PROPERTY

- .1 Protect surrounding private and public property from damage during performance of Work.
- .2 Be responsible for damage incurred.

2 PRODUCTS

- .1 Not used.

3 EXECUTION

- .1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Requirements and limitations for cutting and patching the Work.

1.2 RELATED SECTIONS

- .1 Section 01 11 00 - Summary of Work
- .2 Section 01 33 00 - Submittal Procedures
- .3 Individual product Sections: cutting and patching incidental to work of section. Advance notification to other sections required.

1.3 SUBMITTALS

- .1 Submit written request in advance of cutting or alteration which affects:
 - .1 Structural integrity of any element of Project.
 - .2 Integrity of weather-exposed or moisture-resistant elements.
 - .3 Efficiency, maintenance, or safety of any operational element.
 - .4 Visual qualities of sight-exposed elements.
 - .5 Work of Owner or separate contractor.
- .2 Include in request:
 - .1 Identification of Project.
 - .2 Location and description of affected Work.
 - .3 Statement on necessity for cutting or alteration.
 - .4 Description of proposed Work, and products to be used.
 - .5 Alternatives to cutting and patching.
 - .6 Effect on Work of Owner or separate contractor.
 - .7 Written permission of affected separate contractor.
 - .8 Date and time work will be executed.

1.4 MATERIALS

- .1 Required for original installation.
- .2 Change in Materials: Submit request for substitution in accordance with Section 01 33 00 - Submittal Procedures.

1.5 PREPARATION

- .1 Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
- .2 After uncovering, inspect conditions affecting performance of Work.
- .3 Beginning of cutting or patching means acceptance of existing conditions.
- .4 Provide supports to assure structural integrity of surroundings; provide devices and methods to protect other portions of project from damage.
- .5 Provide protection from elements for areas which may be exposed by uncovering work; maintain excavations free of water.

1.6 EXECUTION

- .1 Execute cutting, fitting, and patching including excavation and fill, to complete Work.
- .2 Fit several parts together, to integrate with other Work.
- .3 Uncover Work to install ill-timed Work.
- .4 Remove and replace defective and non-conforming Work.
- .5 Execute Work by methods to avoid damage to other Work, and which will provide proper surfaces to receive patching and finishing.
- .6 Employ original installer to perform cutting and patching for weather-exposed and moisture-resistant elements, and sight-exposed surfaces.
- .7 Cut rigid materials using masonry saw or core drill. Pneumatic or impact tools not allowed on masonry work without prior approval.
- .8 Restore work with new products in accordance with requirements of Contract Documents.
- .9 Refinish surfaces to match adjacent finishes: For continuous surfaces refinish to nearest intersection; for an assembly, refinish entire unit.

2 PRODUCTS

- .1 Not used.

3 EXECUTION

- .1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Progressive cleaning.
- .2 Final cleaning.

1.2 RELATED SECTION

- .1 Section 01 77 00 - Closeout Procedures

1.3 REFERENCE STANDARDS

- .1 Canadian Construction Documents Committee (CCDC)
 - .1 CCDC 2- 2008, Stipulated Price Contract.

1.4 PROJECT CLEANLINESS

- .1 Maintain Work in tidy condition, free from accumulation of waste products and debris, including that caused by Owner or other Contractors.
- .2 Remove waste materials from site at regularly scheduled times or dispose of as directed by Consultant. Do not burn waste materials on site.
- .3 Clear snow and ice from access to building, bank/pile snow in designated areas only.
- .4 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .5 Provide on-site containers for collection of waste materials and debris.
- .6 Provide and use clearly marked separate bins for recycling.
- .7 Remove waste material and debris from site and deposit in waste container at end of each working day.
- .8 Dispose of waste materials and debris at designated dumping areas on Crown off site.
- .9 Clean interior areas prior to start of finish work, and maintain areas free of dust and other contaminants during finishing operations.
- .10 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- .11 Provide adequate ventilation during use of volatile or noxious substances. Use of building ventilation systems is not permitted for this purpose.
- .12 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- .13 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

1.5 FINAL CLEANING

- .1 Refer to CCDC 2, GC 3.14.
- .2 When Work is Substantially Performed, remove surplus products, tools, construction machinery and equipment not required for performance of remaining Work.
- .3 Remove waste products and debris other than that caused by others and leave Work clean and suitable for occupancy.
- .4 Prior to final review, remove surplus products, tools, construction machinery and equipment.
- .5 Remove waste products and debris including that caused by Owner or other Contractors.
- .6 Remove waste materials from site at regularly scheduled times or dispose of as directed by Consultant. Do not burn waste materials on site.
- .7 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .8 Clean and polish glass, mirrors, hardware, wall tile, stainless steel, chrome, porcelain enamel, baked enamel, plastic laminate, and mechanical and electrical fixtures. Replace broken, scratched or disfigured glass.
- .9 Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fitments, walls and floors.
- .10 Clean lighting reflectors, lenses, and other lighting surfaces.
- .11 Vacuum clean and dust building interiors, behind grilles, louvres and screens.
- .12 Wax, seal, shampoo or prepare floor finishes, as recommended by manufacturer.
- .13 Inspect finishes, fitments and equipment and ensure specified workmanship and operation.
- .14 Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds.
- .15 Remove dirt and other disfiguration from exterior surfaces.
- .16 Clean and sweep roofs, gutters, areaways, and sunken wells.
- .17 Sweep and wash clean paved areas.

- .18 Clean equipment and fixtures to a sanitary condition; clean or replace filters of mechanical equipment.
- .19 Clean roofs, downspouts, and drainage systems.
- .20 Remove debris and surplus materials from crawl areas and other accessible concealed spaces.
- .21 Remove snow and ice from access to building.

2 PRODUCTS

- .1 Not used.

3 EXECUTION

- .1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Administrative procedures preceding preliminary and final inspections of Work.

1.2 RELATED SECTIONS

- .1 Section 01 78 00- Closeout Submittals

1.3 REFERENCES

- .1 Canadian Construction Documents Committee (CCDC)
 - .1 CCDC 2- 2008, Stipulated Price Contract.

1.4 INSPECTION AND DECLARATION

- .1 Contractor's Inspection: Contractor and all Subcontractors shall conduct an inspection of Work, identify deficiencies and defects, and repair as required to conform to Contract Documents.
 - .1 Notify Consultant in writing of satisfactory completion of Contractor's Inspection and that corrections have been made.
 - .2 Request Consultant's Inspection.
- .2 Consultant's Inspection: Consultant and Contractor will perform inspection of Work to identify obvious defects or deficiencies. Contractor shall correct Work accordingly.
- .3 Completion: submit written certificate that following have been performed:
 - .1 Work has been completed and inspected for compliance with Contract Documents.
 - .2 Defects have been corrected and deficiencies have been completed.
 - .3 Equipment and systems have been tested, adjusted and balanced and are fully operational.
 - .4 Certificates required by Utility companies and Municipality have been submitted.
 - .5 Operation of systems have been demonstrated to Owner's personnel.
 - .6 Work is complete and ready for Final Inspection.

- .4 Final Inspection: when items noted above are completed, request final inspection of Work by Owner, Consultant, and Contractor. If Work is deemed incomplete by Owner and Consultant, complete outstanding items and request reinspection.
- .5 Declaration of Substantial Performance: when Owner and Consultant consider deficiencies and defects have been corrected and it appears requirements of Contract have been substantially performed, make application for certificate of Substantial Performance. Refer to CCDC 2, General Conditions Article GC 5.4 - Substantial Performance of Work for specifics to application.
- .6 Commencement of Lien and Warranty Periods: date of Owner's acceptance of submitted declaration of Substantial Performance shall be date for commencement for warranty period and commencement of lien period unless required otherwise by lien statute of Place of Work.
- .7 Final Payment: When Owner and Consultant consider final deficiencies and defects have been corrected and it appears requirements of Contract have been totally performed, make application for final payment. Refer to CCDC 2, General Conditions Article GC 5.7 for specifics to application. If Work is deemed incomplete by Owner and Consultant, complete outstanding items and request reinspection.
- .8 Payment of Holdback: After issuance of certificate of Substantial Performance of Work, submit an application for payment of holdback amount in accordance with CCDC 2, General Conditions Article 5.5.

1.5 DEMONSTRATIONS AND TRAINING

- .1 The Contractor shall demonstrate operation and maintenance of products, equipment and systems to Consultant and the Owner's personnel.
- .2 The Contractor shall provide 2 weeks' notice of demonstrations to allow Consultant to co-ordinate attendance of Owner's personnel.
- .3 Use operation and maintenance manuals as basis for instruction during demonstrations and training.
- .4 Review contents of manuals with Owner's personnel in detail to explain all aspects of operation and maintenance.
- .5 Allow sufficient time in construction schedule for completion of demonstrations and training.
- .6 For products or equipment requiring seasonal operation, ensure the demonstration is performed within the season of operation.
- .7 All demonstrations and training shall be completed prior to Substantial Performance.

1.6 FINAL CLEANING

- .1 Clean in accordance with Section 01 74 11 – Cleaning.
- .2 Remove surplus materials, excess materials, rubbish, tools and equipment.

2 PRODUCTS

.1 Not used.

3 EXECUTION

.1 Not used.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 As-built, samples, and specifications.
- .2 Equipment and systems.
- .3 Product data, materials and finishes, and related information.
- .4 Operation and maintenance data.
- .5 Spare parts, special tools and maintenance materials.
- .6 Warranties and bonds.
- .7 Final site survey.

1.2 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures
- .2 Section 01 45 00 - Quality Control
- .3 Section 01 74 11 - Cleaning
- .4 Section 01 77 00 - Closeout Procedures

1.3 SUBMISSION

- .1 Prepare instructions and data by personnel experienced in maintenance and operation of described products.
- .2 Copy will be returned after final inspection with Consultant's comments.
- .3 Revise content of documents as required prior to final submittal.
- .4 Two weeks prior to Substantial Performance of the Work, submit to the Consultant three final copies of operating and maintenance manuals in English.
- .5 Ensure spare parts, maintenance materials and special tools provided are new, undamaged or defective, and of same quality and manufacture as products provided in Work.
- .6 If requested, furnish evidence as to type, source and quality of products provided.
- .7 Defective products will be rejected, regardless of previous inspections. Replace products at own expense.
- .8 Pay costs of transportation.

1.4 FORMAT

- .1 Organize data in the form of an instructional manual.
- .2 Binders: vinyl, hard covered, 3 'D' ring, loose leaf with spine and face pockets.
- .3 When multiple binders are used, correlate data into related consistent groupings. Identify contents of each binder on spine.
- .4 Cover: Identify each binder with type or printed title 'Project Record Documents'; list title of project and identify subject matter of contents.
- .5 Arrange content by systems under Section numbers and sequence of Table of Contents.
- .6 Provide tabbed fly leaf for each separate product and system, with typed description of product and major component parts of equipment.
- .7 Text: Manufacturer's printed data, or typewritten data.
- .8 Drawings: provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.
- .9 Provide 1:1 scaled CAD files in dwg format on a USB drive.

1.5 CONTENTS - EACH VOLUME

- .1 Table of Contents: provide title of project;
 - .1 date of submission; names,
 - .2 addresses, and telephone numbers of Consultant and Contractor with name of responsible parties;
 - .3 schedule of products and systems, indexed to content of volume.
- .2 For each product or system:
 - .1 list names, addresses and telephone numbers of subcontractors and suppliers, including local source of supplies and replacement parts.
- .3 Product Data: mark each sheet to clearly identify specific products and component parts, and data applicable to installation; delete inapplicable information.
- .4 Drawings: supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams.
- .5 Typewritten Text: as required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions specified in Section 01 45 00- Quality Control.
- .6 Training: Refer to Section 01 82 00- Demonstration and Training.

1.6 AS-BUILTS AND SAMPLES

- .1 In addition to requirements in General Conditions, maintain at the site for Consultant and Owner one record copy of:
 - .1 Contract Drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Change Orders and other modifications to the Contract.
 - .5 Reviewed shop drawings, product data, and samples.
 - .6 Field test records.
 - .7 Inspection certificates.
 - .8 Manufacturer's certificates.
- .2 Store record documents and samples in field office apart from documents used for construction. Provide files, racks, and secure storage.
- .3 Label record documents and file in accordance with Section number listings in List of Contents of this Project Manual. Label each document "PROJECT RECORD" in neat, large, printed letters.
- .4 Maintain record documents in clean, dry and legible condition. Do not use record documents for construction purposes.
- .5 Keep record documents and samples available for inspection by Consultant.

1.7 RECORDING ACTUAL SITE CONDITIONS

- .1 Record information on set of drawings, and in copy of Project Manual, provided by Consultant.
- .2 Provide felt tip marking pens, maintaining separate colours for each major system, for recording information.
- .3 Record information concurrently with construction progress. Do not conceal Work until required information is recorded.
- .4 Contract Drawings and shop drawings: legibly mark each item to record actual construction, including:
 - .1 Measured depths of elements of foundation in relation to finish first floor datum.
 - .2 Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.

- .3 Measured locations of utilities and appurtenances, referenced to visible and accessible features of construction.
- .4 Field changes of dimension and detail.
- .5 Changes made by change orders.
- .6 Details not on original Contract Drawings.
- .7 References to related shop drawings and modifications.
- .5 Specifications: legibly mark each item to record actual construction, including:
 - .1 Manufacturer, trade name, and catalogue number of each product actually installed, particularly optional items and substitute items.
 - .2 Changes made by Addenda and change orders.
- .6 Other Documents: maintain manufacturer's certifications, [inspection certifications, field test records, required by individual specifications sections.

1.8 FINAL SURVEY

- .1 Submit final site survey certificate certifying that elevations and locations of completed Work are in conformance, or non-conformance with Contract Documents.

1.9 EQUIPMENT AND SYSTEMS

- .1 Each Item of Equipment and Each System: include description of unit or system, and component parts. Give function, normal operation characteristics, and limiting conditions. Include performance curves, with engineering data and tests, and complete nomenclature and commercial number of replaceable parts.
- .2 Panel board circuit directories: provide electrical service characteristics, controls, and communications.
- .3 Include installed colour coded wiring diagrams.
- .4 Operating Procedures: include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.
- .5 Maintenance Requirements: include routine procedures and guide for trouble-shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
- .6 Provide servicing and lubrication schedule, and list of lubricants required.
- .7 Include manufacturer's printed operation and maintenance instructions.
- .8 Include sequence of operation by controls manufacturer.
- .9 Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.

- .10 Provide installed control diagrams by controls manufacturer.
- .11 Provide Contractor's coordination drawings, with installed colour coded piping diagrams.
- .12 Provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
- .13 Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
- .14 Include test and balancing reports as specified in Section 01 45 00] - Quality Control.
- .15 Additional requirements: As specified in individual specification sections.

1.10 MATERIALS AND FINISHES

- .1 Building Products, Applied Materials, and Finishes: include product data, with catalogue number, size, composition, and colour and texture designations.
- .2 Instructions for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
- .3 Moisture-protection and Weather-exposed Products: include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
- .4 Additional Requirements: as specified in individual specifications sections.

1.11 SPARE PARTS

- .1 Provide spare parts, in quantities specified in individual specification sections.
- .2 Provide items of same manufacture and quality as items in Work.
- .3 Deliver to location as directed ; place and store.
- .4 Receive and catalogue all items. Submit inventory listing to Consultant. Include approved listings in Maintenance Manual.
- .5 Obtain receipt for delivered products and submit prior to final payment.

1.12 MAINTENANCE MATERIALS

- .1 Provide maintenance and extra materials, in quantities specified in individual specification sections.
- .2 Provide items of same manufacture and quality as items in Work.
- .3 Deliver to location as directed ; place and store.
- .4 Receive and catalogue all items. Submit inventory listing to Consultant . Include approved listings in Maintenance Manual.
- .5 Obtain receipt for delivered products and submit prior to final payment.

1.13 SPECIAL TOOLS

- .1 Provide special tools, in quantities specified in individual specification section.
- .2 Provide items with tags identifying their associated function and equipment.
- .3 Deliver to location as directed; place and store.
- .4 Receive and catalogue all items. Submit inventory listing to Consultant. Include approved listings in Maintenance Manual.

1.14 STORAGE, HANDLING AND PROTECTION

- .1 Store spare parts, maintenance materials, and special tools in manner to prevent damage or deterioration.
- .2 Store in original and undamaged condition with manufacturer's seal and labels intact.
- .3 Store components subject to damage from weather in weatherproof enclosures.
- .4 Store paints and freezable materials in a heated and ventilated room.
- .5 Remove and replace damaged products at own expense and to satisfaction of Consultant.

1.15 WARRANTIES AND BONDS

- .1 Separate each warranty or bond with index tab sheets keyed to Table of Contents listing.
- .2 List subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.
- .3 Obtain warranties and bonds, executed in duplicate by subcontractors, suppliers, and manufacturers, within ten days after completion of the applicable item of work.
- .4 Except for items put into use with Owner's permission, leave date of beginning of time of warranty until the Date of Substantial Performance is determined.
- .5 Verify that documents are in proper form, contain full information, and are notarized.
- .6 Co-execute submittals when required.
- .7 Retain warranties and bonds until time specified for submittal.

2 PRODUCTS

- .1 Not used.

3 EXECUTION

- .1 Not used.

END OF SECTION

PART 1 - GENERAL

1.1 General Requirements

1.1.1 Comply with requirements of Division 1.

1.2 SCOPE OF WORK

1.2.1 Work in Contract

Furnish all materials and equipment necessary to install the Polyurethane track system over the new asphalt base including lane and event markings.
Note: Aluminum racing rail will be removed by City of Niagara Falls and will not be re-installed.

The contractor shall provide all labour, materials, equipment and services to perform the following work:

- Review bid documents
- Apply a 13mm rubberized track system
- Complete all lane and event markings as per IAAF and Canadian Track & Field Association standards
- Protect all areas to be surfaced from damage as a result of the installation
- Protect all surrounding areas from damage as a result of the installation
- Protect the installed materials from damage
- Keep the site clean from debris and surface materials etc. throughout the installation
- Perform site clean-up at completion of the installation
- Supply submittals as required

The contractor shall be fully acquainted with the existing site and utilities and shall understand the difficulties and restrictions attending the execution of the work under this contract. The contractor shall advise at the time of the bid, of any restrictions and anticipated difficulties.

1.3 Submittals

1.3.1 Colour chart of available polyurethane top coat colours

1.3.2 Product sample with selected top coat colour (Blue). Provide in minimum 6" x 6" in size.

1.3.3 Track surfacing manufacturer's detailed installation instructions including details regarding:

.1 Installation process

.2 Recommended / approved installation climatic conditions

1.3.4 Product data sheets for all system components including sub-base primer, crack filler, leveling compounds, surface coating, etc.

1.3.5 Material Safety Data Sheets (MSDS) for all individual components.

1.4 Contractor Qualifications

- 1.4.1 The track surfacing contractor must have a minimum of 10 (ten) years documentable experience installing synthetic track surfacing. Upon request, submit a list of similar track surfacing projects completed within in the last 5 (five) years complete with contact information.
- 1.4.2 The track surfacing contractor shall be approved / licensed by the track surfacing manufacturer in the installation of their systems.

1.5 Quality Assurance

- 1.5.1 The track surfacing manufacturer certifies that:
 - .1 All surfacing materials have been manufactured in strict accordance with their quality control requirements.
 - .2 The surfacing system will remain permanently bonded to properly prepared and primed asphalt paving sub-base.
 - .3 The surfacing system is resistant to ultra violet light and will not bubble, blister, prematurely crack or wear excessively under normal use and service conditions.

1.6 Warranty

- 1.6.1 The Contractor warrants the synthetic track surfacing installation for a total of 5 (five) years from the date of Substantial Performance of the Contract against defects in materials, workmanship or labour under normal use and service.

2 PRODUCTS

2.1 Synthetic Track Surfacing

- 2.1.1 The resurfacing layer shall consist of two (2) component polyurethane that is self-levelling and compounded from a proprietary pigmented polyol and MDI based, "TDI Free" isocyanate. The polyurethane shall contain no mercury, lead, or any other heavy metals added by design.
 - .1 Advanced Polymer Technology – "Spurtan BS" system.
 - .2 BASF-Conica – "Conipur SP" system.
 - .3 Polytan – "Polytan WS" system
 - .4 Beynon - BSS 100

2.1.3 System Components

- .1 Primers: Polyurethane-based primers specifically formulated to be compatible with the subbase and track & field synthetic surfacing material.
- .2 EPDM Granules: The rubber granules for the structural spray wearing coats shall be EPDM peroxide cured, man-made rubber containing a minimum 20% EPDM, with a specific gravity of 1.5+/-0.1. The EPDM rubber will be 0.5mm to 1.5mm EPDM granules. The EPDM rubber shall be the same color as chosen by the Owner for the track surface.
- .3 Structural Spray Coating: The spray coating shall be the MDI-based mono-component, moisture cured, pigmented polyurethane, specifically formulated for compatibility with EPDM granules.
- .4 Patching Material: All materials must be approved materials and compatible with the synthetic surface.
- .5 Line Painting: polyurethane compatible with structural spray top coat.

3 EXECUTION

3.1 Inspection and Acceptance

- 3.1.1 Examine all surfaces and contiguous elements to receive work of this Section and notify Consultant of any defects affecting synthetic track surfacing installation. Do not commence installation of synthetic track surfacing until defects have been corrected. Commencement of work will be construed as complete acceptability of surfaces and contiguous elements.
- 3.1.2 The existing track shall be inspected and repaired as follows:
 - .1 It shall be the responsibility of the sport surfacing contractor to flood the surface. If after 20 minutes of drying time, the birdbaths that are evident need to be noted for repair, it shall be the responsibility of the surfacing contractor to determine the method of correction. No cold tar patching, skin patching or sand mix patching will be acceptable. The leveling layer shall consist of a pigmented polyurethane applied 2-3mm thick over a properly prepared receiving surface to insure chemical adhesion. Installing contractor shall determine if chemical primer is required.
 - .2 Inspect the complete track surface and event runways for damaged areas.
 - .3 Power wash complete surface to clean and remove any loose material. The area to be surfaced shall be clean and free of any loose or foreign substances (dirt, oil, etc.) prior to the commencement of the work.
 - .4 Fill low areas and damaged areas.
 - .5 Confirm repairs with consultant prior to beginning resurface

3.2 Installation Requirements

- 3.2.1 The proposed track system shall be installed over existing latex sandwich system track/event runways (including steeplechase water area)
- 3.2.2 The contractor shall verify all track dimensions
- 3.2.3 The following installation requirements must be met by the synthetic surfacing contractor:

- .1 Install in accordance with manufacturer's instructions and recommendations.
- .2 Installation by approved technicians only.
- .3 A technical representative from the approved manufacturer of the polyurethane product must provide on-site technical services during the installation of the asphalt paving base and synthetic track surfacing.
- .4 Priming - The primer shall be spray-applied in accordance with the manufacturer's specifications. Only those areas which can be installed the same day should be primed.

3.2.4 Synthetic Surfacing System Details

The top layer shall consist of a flow applied 5 mm layer of the same pigmented two- component polyurethane or equal latex system onto which pigmented EPDM granules are broadcast at a rate of approximately 5 kg/square meter prior to the initial set. After the cure is complete, the excess rubber granulate is removed by means of a mechanical sweeper. The EPDM granulate remaining embedded in the surface is approximately 2.9 kg/square meter

3.2.5 Slopes & Tolerances

- .1 Track Oval - Direction of running, maximum slope 1:1000 (0.1%); Cross / lateral slope (perpendicular to lane lines), Outermost lane down to Lane 1, 1:200 (2.0%) maximum and no less than 1.2%.
- .2 Long / Triple Jump and Pole Vault Runways - Direction of running, maximum slope 1:1000 (0.1%); Maximum slope from take-off board to sand pit shall not exceed 1:1000 (0.1%) downward; Cross / lateral slope (perpendicular to runway lines), 1:200 (2.0%) maximum and no less than 1.2%.
- .3 Depressions cannot exceed 3mm under a 1.0m straight edge or 6mm under a 4.0m straight edge.
- .4 Install removable track & field synthetic surfacing (full pour polyurethane) plugs in all long/triple jump take-off boards (1" x 1" notch in corner)
- .5 Repair all damaged areas, clean-up all glue, and remove excess polyurethane, primers and similar products. All trim cuts shall be neat and clean; on all curves the trim-out shall follow a radius line for accuracy and neatness.

3.3 Timing, Limitations and Condition Affecting Installation

- 3.3.1 Weather and Climate: If in the opinion of the synthetic track surfacing manufacturer or the Owner, weather and climatic conditions are having or will have an adverse effect on installation; work shall be delayed until the adverse condition has passed.
- 3.3.2 Adjacent and Concurrent Construction: Installation shall not take place until the completion of adjacent or concurrent construction operations which generate dust, airborne abrasives, or any other by-product that, in the opinion of the Owner or synthetic track surfacing manufacturer, would be harmful to the track materials.

3.4 Line Painting

- 3.4.1 Apply lane divider lines, lane numbers and associated event markings using manufacturer's recommended paint to OFSAA requirements and to IAFF, NCAA, etc. standards.
- 3.4.2 Sports surface contractor will mark all lane lines, start-finish lines, event markings and runway borders according to IAAF standards (where possible) or the Owner's alternate instructions. All line markings must be verified with the Owner prior to installation. Slight alterations to event markings by owner/user group may be required and will be included.
- 3.4.3 All lane lines, start and finish lines to receive 2 coats paint
- 3.4.4 Numbers are to be a minimum of 0.50m high with five [5] sets of numbers required and to be read in the direction of running, except at finish line (see 1.x above), location to be verified with owner prior to installation.

- .1 100m on Both Sides of Track
- .2 200m
- .3 400m
- .4 800m
- .5 1500m
- .6 1600m
- .7 2000m
- .8 3000m
- .9 1 mile
- .10 800m Cut-in
- .11 80m hurdles
- .12 100m hurdles
- .13 110m hurdles
- .14 300m hurdles
- .15 400m hurdles
- .16 steeple chase 1500m,2000m, 3000m hurdle locations
- .17 4 x 100m relay
- .18 4 x 400m relay

On both sides of the track - 100m and all hurdle event markings
steeple finish lines

- 3.4.6 The sports surface contractor shall submit a certification of accuracy prepared by the registered Engineer or Surveyor. The Engineer or Surveyor shall certify the actual line markings on the facility, not the line markers drawings or computations. The track markings and layout must meet IAAF requirements and the requirements of the drawings and specifications.

3.5 Inground Equipment

3.5.1 The sports surface contractor is responsible to supply and replace:

- Two (2) Pole Vault Trays – Model # PVBSS Pole Vault Box, Stainless Steel, Standard Mill Finish, Meets and/or Exceeds All IAAF, NCAA and NFHS Specifications, Rules and Requirements
- Two (2) Stainless Steel Pole Vault Box Cover Plug – Model # PVBCPSS Pole Vault Box Cover/Plug for a Stainless Steel Pole Vault Box, Recessed 1/2" to Accept Contractor Track Surface Installation
- One (1) Waterjump Hanging Cover – Model # WJ5600 Custom Steeplechase Water Jump Pit Panel Cover Set

Equipment is available from the following Manufacturer: (or approved equals)

1. Sportsfield Specialties – Attention Terra Erickson Toll Free 1-888-975-3343

3.6 PROTECTION OF COMPLETED WORK

3.6.1 Protect applied synthetic track surfacing system from damage until fully dry and cured.

END OF SECTION