

Part 1 General

1.1 WORK COVERED BY CONTRACT DOCUMENTS

- .1 Specific work for this contract shall be comprised of work associated with but not limited to what is indicated in the drawings and specifications.
- .2 The work includes, but is not limited to, the following:
 - .1 Removal of approximately 690m of asphalt trail, including base, 1.8m width.
 - .2 Installation of approximately 690m of 2.0m wide concrete walk.
 - .3 Installation of temporary security fencing for each phase of the project to Type 4 standard as outline in Annex A Technical Reference Guideline (subject to deletion).
 - .4 Installation of two chain link fence and gates sections.
 - .5 Mill and overlay – 50mm depth (subject to deletion) approximately 140m², extends to be confirmed by Departmental Representative.
 - .6 Hot mix asphalt – 75mm depth approximately 540 m²
 - .7 Removal of existing asphalt and base to subgrade approximately 540 m²
 - .8 Supply and place granular base course – 250mm depth approximately 133m³
 - .9 Adjust Manhole to Final Grade - 1
 - .10 Adjust Valve to Final Grade - 2
- .3 The work, unless specifically stated otherwise, shall include transportation, labour, material, tools, equipment, and all other incidentals required to complete the work. The intent is that the contractor provides a complete product.
- .4 Any minor item of the work not called for in the specifications or shown on the drawings but clearly required to meet the intent of design and normally provided for the proper operation of the work shall be provided as if specifically called for in the contract documents. No additional payment will be made for this incidental work.
- .5 The contractor shall supply all material for the work unless expressly stipulated otherwise in the contract documents.

1.2 CONTRACT METHOD

- .1 Construct Work under unit price contract.

1.3 CONSTRUCTION DURATION

- .1 The project work is to be completed by 31 October 2017.

1.4 HOURS OF OPERATION

- .1 Construction can be performed from Monday to Friday between 7 am and 4:30 pm, excluding statutory holidays.
- .2 Periodic interruptions to work due to operational security requirements is to be expected.

1.5 SITE ACCESS

- .1 Access shall be through east vehicle gate and access is controlled by Commissionaire.

- .2 Allow Department Representatives and Geotechnical Testing/ Inspection Agency Representatives access to the construction site at all times.
- .3 Refer to Section 01 14 10 – Institutional Requirements for Contractors for additional requirements.

1.6 SECURITY REQUIREMENTS

- .1 Refer to Section 01 14 10 – Institutional Requirements for Contractors.
- .2 Contractor is responsible for installing temporary fencing in accordance with the requirements outline in Annex A - Technical Reference Guideline. Fencing to be inspected and accepted by Corrections Officer prior to commencing construction on each phase.

1.7 CONTRACTOR USE OF PREMISES

- .1 Limit use of premises for Work, for storage, and for access, to allow Departmental Representative occupancy.
- .2 Equipment, tools and material not left within secure compound must be inspected by Commissionaire daily as they enter the project site.
- .3 Co-ordinate use of premises under direction of Departmental Representative.
- .4 Assume full responsibility for protection and safekeeping of construction site and products under this contract.
- .5 At completion of operations restore all premises such as laydown area: equal to or better than that which existed before new work started.

1.8 PROJECT SCHEDULE

- .1 Submit to Departmental Representative within 14 working days of Contract Award a Project Schedule.
- .2 Ensure the project schedule includes as minimum the following milestones:
 - .1 Mobilization.
 - .2 Start and completion dates of each phase, specifically identifying the duration between the asphalt trail removal and the pouring of the concrete walk.
 - .3 Asphalt repairs.
 - .4 Demobilization.
- .3 Departmental Representative will review and approve or return a revised schedule within 5 working days.
- .4 Revise schedule, if required, and resubmit within 5 working days.
- .5 Accepted revised schedule will become Master Plan and be used as baseline for updates.

1.9 DOCUMENTS REQUIRED

- .1 Maintain at job site one copy each document as follows:
 - .1 Drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Reviewed Shop Drawings.

- .5 List of Outstanding Shop Drawings.
- .6 Change Orders.
- .7 Other Modifications to Contract.
- .8 Field Test Reports.
- .9 Approved Work Schedule.
- .10 Health and Safety Plan and Other Safety Related Documents.

1.10 RELICS AND ANTIQUITIES

- .1 Relics and antiquities and items of historical or scientific interest such as cornerstones and contents, commemorative plaques, inscribed tablets, and similar objects found on site or in buildings to be demolished, remain property of Departmental Representative. Protect such articles and request directives from Departmental Representative.
- .2 Notify Departmental Representative immediately if evidence of archaeological finds is encountered and await Departmental Representative's written instructions before proceeding with work in area.

1.11 FIELD ENGINEERING

- .1 Subsurface Conditions:
 - .1 Promptly notify Departmental Representative in writing if subsurface conditions at Place of the Work differ materially from those indicated in Contract Documents, or reasonable assumption of probable conditions based thereon.
 - .2 After prompt investigation, should Departmental Representative determine that conditions do differ materially, instructions will be issued for changes in the Work as provided in the contract procedures for Changes in the Work.

Part 2 Products

2.1 NOT USED

- .1 Not used.

Part 3 Execution

3.1 NOT USED

- .1 Not used.

END OF SECTION

- 1 INTRODUCTION .1 To carry out an efficient operation of a penitentiary, it is absolutely necessary for civilian personnel, who are employed on the penitentiary property, to observe established rules and procedures.
- 2 ESTABLISHMENT OF REQUIREMENTS .1 Prior to commencing work, the Contractor shall meet with the Warden or his designate to discuss the nature and extent of all activities involved, and to establish mutually acceptable requirements to ensure that both the project and institution operation may proceed without undue disruption or hindrance except where unavoidable.
- 3 WORKING CONDITIONS .1 Subject to Institutional Security requirements, the Warden or designate shall permit the contractor as much freedom of action and movement as is reasonably possible, and the Contractor in turn shall be expected to cooperate with institutional personnel in ensuring that security requirements are observed by construction workers.
- 4 OBSERVATION AND INSPECTION .1 Construction activity and all related movement of personnel & vehicles shall be subject to observation & inspection by institutional staff to ensure that security requirements are met, and understanding of the need for this action is established and maintained throughout.
- 5 PERSONNEL SECURITY .1 The names of all construction personnel to be employed on the site shall be submitted in writing via SMI form #85 (Security Clearance Request) which may be obtained from Security Intelligence Officer (SID), Correctional Supervisor In Charge of Construction and/or Public Works Supervisor.
- .2 All contractors and their employees, including subcontractors and their employees, involved in the contract, must report to the SIO or CS I/C of Construction prior to the first day of employment for the purpose of obtaining a "pass" (photo identification card) and receiving a security briefing. This will only be done after a Security Clearance Request form is completed

and approved by the Warden.

- .3 Warden or designate may require close-up facial photographs to be taken of construction personnel, and may have such photographs displayed at appropriate locations in the institution for identification purposes.
- .4 When the contractors and employees are required to work on the prison property, they will enter and exit the premises via the Service Entrance (Sally Port) if authorized by the CS IIC Construction or designated due to job requirements.
- .5 Warden or designate has the right to refuse permission to enter institutional property to any person whom he has reason to believe may be a security risk.

6 PARKING

- .1 Warden or designate shall assign the parking area or areas to be used by the construction personnel and indiscriminate parking in other locations shall not be permitted.
- .2 All unattended vehicles must have windows closed, doors and trunks locked, and keys removed.
- .3 Vehicles must not contain any type of weapons, ammunition or spirits (empty, partial or full).

7 SHIPPING AND ACCESS TO THE SITE

- .1 Contractor shall verify with the Warden or designate the hours during which vehicles will be allowed to enter or leave the institution. Vehicles or personnel will not be admitted to the institution after normal working hours or on weekends/holidays without prior arrangement with the Warden or his designate. Normal construction Work hours are 07:30 to 16:30 hours Monday thru Friday.
- .2 Note: Service Entrance is closed between 11:00 to 13:00 hours unless arrangements are made in advance.
- .3 Contractor shall have all project material and equipment addressed in his name to avoid confusion with the institutions own shipments.

- .4 Contractor shall, when overtime work is necessary, inform the Warden or his designate at least 24 hours in advance so that extra staff may be arranged to maintain the institution's observation inspection of construction activity.
- .5 Warden his designate may prohibit or restrict access to any part of the institution. He may require that, in certain areas or at certain times, no civilian is allowed unless accompanied by an officer of the Correctional Service of Canada.
- .6 Private vehicles will not be allowed within the institution's security wall or fence without special permission of the Warden or his designate. All vehicles entering the institution's security wall or fence must comply with institution's security requirements (i.e. lockable gas caps or wheel covers, no wheel hub caps, lockable doors and windows, tools in a lockable container and locked when not in use).
- .7 Trucks delivering materials, equipment and tools to the job will be allowed access when the contents are certified by the Contractor or representative as being strictly necessary for the execution of the work. Security requirements such as wheel covers, lockable fuel caps, lockable doors and windows are still required unless special provisions are made thru the CS I/C Construction. Trucks or vehicles, after being unloaded, are to be parked in the designated area outside the security wall or fence.
- .8 All vehicles are subject to search and will be refused access if, in the opinion of the Warden or his designate, they contain any article that may jeopardize the security of the institution. Examples: weapons, alcohol, cell phones, drugs or narcotics.

8 TOOLS & EQUIPMENT

- .1 Commissioner's Directive 573 Control of Items Critical to the Security" Safety of the Institution under section I0 and Institutional Standing Order 573.
- .2 Contractor shall maintain an inventory of all tools and equipment, including the number of

cartridges for power-driven tools brought on site, and a record of every shot fired. (Empty cartridges to taken out after completion of work and counted with live cartridges. Total cartridges taken in must add up to those taken out, counting those that have been fired.) A copy of these tool lists shall be kept in the Security Construction Trailer when manned or with the officer in charge of the service entrance.

- .3 Contractor shall keep all tools and equipment under constant supervision and not leave them unattended, paying particular attention to power-driven tools, files, saw blades, rod saw, wire, rope, extension cords and ladders.
- .4 Contractor shall store all tools and equipment in places and under conditions approved by the Warden or his designate and locks all toolboxes when not in use. He shall report immediately all missing or lost tools or equipment to the Warden or his designate and complete Missing Tool Report form. This form is available to the General Contractor.
- .5 Contractor shall provide permanent identification (engraving) to all tools indicating that they are the personal property of the employee/tradesperson or employing company. Negligence in this regard may result in confiscation of tools.

9 TELEPHONES &
INSTALLATIONS

- .1 Contractor shall obtain approval from the Warden or his designate for the installation of telephones that shall be located so that they are not accessible to inmates.
- .2 Cell phones are NOT allowed inside the security wall or fence.

10 TWO-WAY
RADIO COMMUNICATIONS

- .1 Warden or designate must approve all two-way radio communication devices.
- .2 All radio devices requested for use on job site must be checked with institutional ADGA technicians to ensure no interference with institution equipment.
- .3 All radio devices brought into SMI are not to be accessible to inmates.

- 11 ALCOHOL & NARCOTICS .1 EIFW has a Zero tolerance for alcohol beverages and narcotics on site. These items are not permitted on institutional property. Discovery of such items on site, and identification of the person or persons responsible for them, shall be reported immediately to the Warden or his designate. Any persons employed in the project that appear to be intoxicated or under the influence of any drug or narcotic, or who behaves in an unusual manner, shall be subject to immediate removal from institutional property.
- 12 CONTROL OF CONTRABAND - GENERAL .1 Contractor is responsible for ensuring that all persons employed directly or indirectly upon the project are familiar with Correctional and Conditional Release Act section 45 Summary Convictions as follows;
- .1 CCRA Summary Conviction Offences 45. Every person commits a summary conviction offence who;
- (a) is in possession of contraband beyond the visitor control point in a penitentiary;
 - (b) is in possession of anything referred to in paragraph (b) or (c) of the definition "contraband" in section 2 before the visitor control point at a penitentiary;
 - (c) delivers contraband to, or receives contraband from, an inmate;
 - (d) without prior authorization, delivers jewelry to, or receives jewelry from, an inmate; or
- Search:
Where the Warden or his designate suspects, on reasonable grounds, that an employee of the contractor is in possession of contraband, he may order that person to be searched, under, Correctional Conditional Release Regulations Section 42.1 Contraband, Sections 43-46, 54.1-2, 55.1 Search and Seizure and Section 57 Seizure, Commissioner's Directives 566-8 section 9-16 ".
- 13 KEY CONTROL .1 Commissioner's Directive 573 Control of Items Critical to the Security" Safety of the

Institution under section 3 C & E and
Institutional Standing Order 573

- .2 The general contractor shall maintain control of all new keys as follows:
 - .1 Upon receipt of keys from the security hardware supplier/installer;
 - .1 Provide a receipt to the security hardware supplier, listing all keys and quantity of each, by key code.
 - .2 Provide a copy of the receipt to the appropriate Correctional Service of Canada representative at the site (Security Maintenance Officer).
 - .3 Locks are to be handed over to SMO Officer for the purpose of repining of lock to CSC standards. Once locks have been repined, locks will be returned to General Contractor for installation.
 - .4 Keys for locks will be made available to the Security Construction Gate to maintain CSC regulation control.
- .3 Upon putting operational keys into use:
 - .1 Keys will be issued thru the Security personnel at the Security Construction Trailer as per CSC standards and to ensure that keys are issued to responsible personnel only and the keys are turned in at the end of the day's work. No keys are to be retained by an employee for any period longer than that for which the key is required.
 - .2 The issue and receipt of all keys is recorded, showing the date, time, key code number, issued to, including the name of the recipient and employer. The time of return should be signed in by the key control officer (Gate Security) and witnessed by CSC site representative at the end of each working day.
 - .3 Report, in writing, any untoward circumstances, such as loss, disfigurement, misuse, or mishandling, etc., to the security hardware supplier or CSC/SMO, identifying keys by code and/or number, so that appropriate action may be taken to effect replacement or abandonment of that particular code as circumstances may warrant. Send a copy of these reports to the CSC site representative.
 - .4 Misuse or improper control of CSC keys can

result in that employee being denied access to keys or removal from CSC property.
.5 No inmates are allowed to handle or be given access to CSC keys.

- .4 Upon completion of the contract and takeover of the buildings:
- .1 Provide a list of all keys, by number and/or key code, with space for the signature of recipients (both Public Works & Government Services Canada representative and CSC representative) and the date of receipt.
 - .2 Provide certification to Public Works & Government Services Canada that all reasonable caution and care has been exercised in accordance with these instructions, and include a copy for CSC.
 - .3 Once locks have been installed on new installation, all keys pertaining to that lock and code shall immediately be turned over to the CSC/SMO.
 - .4 All locks removed during demolition must immediately be turned over to CSC/SMO.
 - .5 No inmates are allowed to handle or be given access to CSC keys.

14 WORK AREAS

- .1 Contractors and their employees shall be confined to their work area. All other buildings and grounds shall be considered "Out of Bounds".
- .2 Contractors and their employees shall not contact or attempt to contact or deal in any way with inmates.

15 CONFINED SPACE ENTRY

- .1 Confined Space Entry Regulations are now in effect. Personnel entering confined space areas must have passed the required Confined Space Training Course to enter Class "A" or "B" areas within the Institution.
 - .1 Confined Spaces Area "A" are typically areas below grade within the duct areas of the Institution. Confined Space Area "A" requires the issue of a permit from the Works Department prior to entry of area or issue of keys. This includes all necessary equipment and safety personnel.
 - .2 Confined Spaces Area "B" are all areas above grade within a confined space area such as attics, mechanical rooms and ducts. This does

not require a permit from Works Department, but does require that you sign a waiver form. This form is for you to indicate that you have had the Confined Space Training. To enter Confined Spaces you are required to have all necessary equipment. The waiver form must be completed prior to entry or before the issuance of any keys.

END OF SECTION

Part 1 General

1.1 MEASUREMENT FOR PAYMENT

- .1 For each unit price item, Departmental Representative will calculate payment based on tendered unit price and Departmental Representative's determination of units of work item completed.
- .2 Method of measurement to be used is detailed in the section of the specification covering each work item.
- .3 Where a method of measurement for payment for a work item is not specified, payment for that item will be deemed to be included in another pay item or other pay items.

1.2 PROGRESS CLAIMS

- .1 Contractor's Responsibilities:
 - .1 Submit progress claim to Departmental Representative within 5 working days after each month end. Claim to cover preceding month.
 - .2 Progress claim to include all labour and materials incorporated in Work and all materials stored at Site.
 - .3 Progress claim to include all agreed extras and deductions.
 - .4 Supply documentation to support claim for materials on site in the form of itemized lists or unpriced purchase orders showing quantities.
 - .5 Supply other evidence required by Departmental Representative in support of progress claim.
- .2 Departmental Representative's Responsibilities:
 - .1 Review Contractor's claim, prepare Progress Payment Certificate and issue to Departmental Representative within 10 working days following receipt of Contractor's claim.
 - .2 Departmental Representative's estimate of quantity of work completed will govern calculation of payment on all Progress Payment Certificates.
 - .3 Inform Contractor of amendments to claim by copy of Progress Payment Certificate.

1.3 CHANGE ORDERS

- .1 Complete and promptly return all change price requests issued by Departmental Representative, quoting unit and/or lump sum prices as requested. Include appropriate supporting documentation to verify prices.
- .2 Do not proceed with work affected by price request until authorized to do so by Change Order.
- .3 Make no change in Work unless Change Order issued. Change Order is only valid when signed by Departmental Representatives and Contractor.

1.4 MEASUREMENT AND PAYMENT ITEMS

.1 Temporary Facilities and Control

- .1 Temporary Facilities and Control will be measured as a Lump Sum item and will include: all costs related to project set-up, mobilization and demobilization of equipment, traffic accommodation, application of all permits, submission of all requested submittals, all survey work, engaging third party shallow utility locator to identify all shallow utilities within work limits, site office trailer including an office for a Commissionaire, dust control, cleaning of site thought-out and at the end of the project to the satisfaction of the Departmental Representative, restoration of all used sites including laydown yard to existing condition and better, general clean-up, labour, tools, materials, equipment and all other incidentals required to perform work under general requirements:
- .2 Payment will be made as a percentage of the total work completed up to 80%. Remaining 20% will be paid once project is complete and all laydown areas have been restored and equipment removed from site.
- .3 This item does not include the temporary security fencing line item.

.2 Section 01 31 19 - Project Meetings

- .1 There shall be no additional payment for items specified in this section.

.3 Section 01 32 16.07 - Construction Progress Schedules

- .1 There shall be no additional payment for items specified in this section.

.4 Section 01 33 00 - Submittal Procedures

- .1 There shall be no additional payment for items specified in this section.

.5 Section 01 35 29.06 - Health and Safety Requirements

- .1 There shall be no additional payment for items specified in this section.

.6 Section 01 41 00 - Regulatory Requirements

- .1 There shall be no additional payment for items specified in this section.

.7 Section 01 45 00 – Quality Control

- .1 There shall be no additional payment for items specified in this section, include costs in relevant sections.

.8 Section 01 52 00 – Construction Facilities

- .1 There shall be no additional payment for items specified in this section.

.9 Section 01 56 00 - Temporary Barriers and Enclosures

- .1 Temporary Security Fencing (subject to deletion):
 - .1 Temporary Security Fencing shall be paid as a lump sum item. Payment shall be made as a percentage of work completed.
 - .2 The unit price to include but is not limited to developing and submitting a fencing phasing plan, installation of temporary fencing to Type 4 standard, modifying existing internal fencing to Perimeter fence standards, restoring internal fences, removal of temporary fencing, general clean-up, labour, materials, tools, equipment and all other incidents required to perform the work.

.10 Section 01 61 00 - Common Product Requirements

.1 There shall be no additional payment for items specified in this section.

.11 Section 01 71 23.16 - Survey

.1 There shall be no additional payment for items specified in this section.

.12 Section 01 73 00 - Execution Requirements

.1 There shall be no additional payment for items specified in this section.

.13 Section 01 74 11 - Cleaning

.1 There shall be no additional payment for items specified in this section.

.14 Section 01 74 21 – Construction Demolition Waste Management and Disposal

.1 Remove Existing Post Foundation

.1 Remove Existing Post Foundation shall be measured and paid for each post removed.

.2 The price shall include, but not limited to, excavation, removal of post concrete base, backfilling with granular material, compaction, hauling, loading, offsite disposal, general clean-up, labour, materials, tools, equipment and all other incidents required to perform the work.

.2 Remove Existing Culvert

.1 Remove Existing Culvert shall be measured and paid for each culvert removed.

.2 The price shall include, but not limited to, excavation, removal of culvert, backfilling with granular material, compaction, hauling, loading, offsite disposal, general clean-up, labour, materials, tools, equipment and all other incidents required to perform the work.

.3 Remove Straight Faced Curb

.1 Remove Straight Faced Curb will be measured and paid for in the actual number of meters of existing concrete removed as measured along the lip of gutter.

.2 The unit price shall include the supply of all material, labour, equipment, tools and incidentals required to do all saw cutting, breaking out, removals of adjacent surfaces to accommodate forms and tie-ins, excavation and disposal of existing base gravel to accommodate new structure, tipping fees of disposal site and general clean-up.

.4 Remove Existing Chain Link Fence and Gate

.1 Remove Existing Chain Link Fence and Gate shall be measured for each section of fence and gate removed. Removals for each section shall include the removal of the existing pedestrian gate and fencing, footing, and the removal of fencing to accommodate the new gate.

.2 The unit price shall include the supply of all material, labour, equipment, tools and incidentals required to do all saw cutting, breaking out, removals of adjacent surfaces to accommodate forms and tie-ins, excavation and disposal of existing base gravel to accommodate new structure, tipping fees of disposal site and general clean-up.

- .3 The contractor is not responsible for removing the Fence Detection System. The system must be removed prior to demolition by Departmental Representative.
- .15 Section 01 77 00 - Closeout Procedures**
 - .1 There shall be no additional payment for items specified in this section.
- .16 Section 01 78 00 - Closeout Submittals**
 - .1 There shall be no additional payment for items specified in this section.
- .17 Section 02 41 13.14 - Asphalt Pavement Removal**
 - .1 Remove and Dispose Asphalt and Base to Subgrade
 - .1 Remove and Dispose Asphalt and Base to Subgrade shall be measured by the square meter of asphalt removed.
 - .2 The unit price to include but is not limited to saw cutting, break-out, removal of asphalt and base, excavation to subgrade, hauling, loading, offsite disposal, general clean-up, labour, materials, tools, equipment and all other incidents required to perform the work.
 - .2 There will be no payment made for removals beyond the limits specified or agreed to on site by the Departmental Representative. Contractor will restore the extra removed asphalt at his own cost.
- .18 Section 03 20 00 - Concrete Reinforcement**
 - .1 No payment will be made under this section. Include costs in items of concrete work for which reinforcement is required.
- .19 Section 03 30 00 - Cast-in-Place Concrete**
 - .1 Remove 1.8m Asphalt Trail and Install 2.0m Wide Concrete Walk
 - .1 Remove 1.8m Asphalt Trail and Install 2.0m Wide Concrete Walk shall be measured in metres along the fence line.
 - .2 The price shall include, but not limited to, saw cutting, breakout, removal of asphalt, excavation to subgrade, loading, hauling, disposal offsite, cut backs to accommodate concrete structure and forms including removal and disposal of waste materials, all labour and equipment to do all subgrade preparation, supply and placement of granular base, forming, supply and placement of concrete, jointing, reinforcing, finishing, curing, all materials as per details, restoration of landscaping with 100mm topsoil and sod within 1.5m of the walk and general clean-up.
 - .3 Include the cost of the commercial crossings and curb in this item.
- .20 Section 31 05 16 - Aggregate General**
 - .1 There shall be no additional payment for items specified in this section. Include costs in related items.
- .21 Section 31 05 10 - Corrected Maximum Dry Density For Fill**
 - .1 There shall be no additional payment for items specified in this section. Include costs in related items.

- .22 Section 31 32 19.13 – Geogrid Soil Stabilization**
- .1 There shall be no additional payment for items specified in this section. Include costs in related items.
- .23 Section 31 32 19.16 – Geotextile Soil Stabilization**
- .1 Supply and Install Geogrid and Geofabric
- .1 Supply and Install Geogrid and Geofabric shall be measured to the total square metres of material placed excluding overlaps.
- .2 The price shall include labour, materials, equipment, tools and all other incidentals required to perform the work.
- .24 Section 32 11 23 - Aggregate Base Courses**
- .1 Supply and Place Granular Base Course
- .1 Supply and Place Granular Base Course shall be measured and paid for in actual cubic metre of granular material placed for the specified thicknesses and accepted by Department Representative.
- .2 Measurement shall be made by the area of concrete installed, excluding any tapers additional granular material required to complete the work.
- .3 The unit price shall include but is not limited to labour, equipment, tools and all other incidentals required to supply place and shape the material as per cross section, preparation of subgrade, application of water to achieve the optimum moisture content, compaction to achieve the required densities, reworking, shaping and compacting any areas that fail to meet the required densities, hauling excess material away from site, clean-up of site and haul routes.
- .25 Section 32 12 13.16 - Asphalt Tack Coat**
- .1 There shall be no additional payment for items specified in this section. Include costs in related items.
- .26 Section 32 12 13.23 – Asphalt Prime Coat**
- .1 There shall be no additional payment for items specified in this section. Include costs in related items.
- .27 Section 32 12 16 - Asphalt Paving**
- .1 Hot Mix Asphalt:
- .1 Hot Mix Asphalt for the depths and type listed in the bid form will be measured and paid for by the square metre of asphalt surface placed and accepted by the Departmental Representative.
- .2 The price to include but is not limited to preparation of mix design and job mix formula, supply, crushing and hauling aggregates, blending of aggregates, supplying and mixing asphalt binder with the aggregate in amounts called for in the mix design, saw cutting to ensure clean vertical edges for asphalt tie-ins, removal and disposal of loose debris, tack coat, prime coat, supply and placement of asphalt, compaction, labour, materials, equipment, tools and all other incidentals required to perform the work.
- .3 All haul routes shall be inspected prior to commencement of work and again following completion of work to determine clean-up requirements.

Any clean-up work not performed in a timely manner will be completed by Correction Services Canada with all related costs deducted from final payment.

.2 Mill and Overlay Access:

- .1 Mill and Overlay Access will be measured and paid by the square meter of asphalt milled and overlaid.
- .2 The unit price to include but is not limited to saw cutting, break-out, removal of asphalt, removing loose asphalt and tack coat, hauling, loading, offsite disposal, preparation of mix design and job mix formula, supply, crushing and hauling aggregates, blending of aggregates, supplying and mixing asphalt binder with the aggregate in amounts called for in the mix design, saw cutting to ensure clean vertical edges for asphalt tie-ins, removal and disposal of loose debris, tack coat, prime coat, supply and placement of asphalt, compaction, labour, materials, equipment, tools and all other incidentals required to perform the work.
- .3 Refer to drawings for staging requirements.

.28 Section 32 31 13 – Chain Link Fences And Gates

- .1 Install Chain Link Fence and Gate
 - .1 Install Chain Link Fence and Gate shall be measured for each 1.83m wide gate installed including all additional fencing required to tie into the internal fencing.
 - .2 The price shall include all costs of supplying and installing the gate and fence, including tying into the existing perimeter and internal fencing.
 - .3 The contractor is not responsible for installing the Fence Detection System.

.29 Section 32 92 23 - Sodding

- .1 There shall be no additional payment for items specified in this section. Include costs in related items.

.30 Section 32 91 19.13 – Topsoil Placement and Grading

- .1 There shall be no additional payment for items specified in this section. Include costs in related items.

.31 Section 33 05 16 – Maintenance Holes and Catch Basins

- .1 Adjust Manhole to Final Grade
 - .1 Adjust Manhole to Final Grade shall be measured for each manhole adjusted.
 - .2 The unit prices bid for manhole adjustments shall include the supply of all material, equipment, tools and incidentals required for the adjustments, raising the manhole frame to the finished elevation of the hot mix asphalt (including asphalt around the manhole) and to undertake the general clean-up and disposal of surplus material.
- .2 Adjust Valve to Final Grade
 - .1 Adjust Valve to Final Grade shall be measured for each valve adjusted.
 - .2 The unit prices bid for valve adjustments shall include the supply of all material, equipment, tools and incidentals required for the adjustments, raising the manhole frame to the finished elevation of the hot mix asphalt

(including asphalt around the manhole) and to undertake the general clean-up and disposal of surplus material.

- Part 2** **Products**
- 2.1** **NOT USED**
- .1 Not Used.
- 2.2** **EXECUTION**
- 2.3** **NOT USED**
- .1 Not Used.

END OF SECTION

Part 1 General

1.1 ADMINISTRATIVE

- .1 Departmental Representative will schedule and administer pre construction and mid project meetings as required.
- .2 Contractor's superintendent and senior representatives of major subcontractors to attend all meetings.
- .3 Distribute written notice of each meeting four days in advance of meeting date to major subcontractors.
- .4 Departmental Representative will provide physical space and make arrangements for meetings.
- .5 Departmental Representative will record the meeting minutes.
- .6 Departmental Representative will reproduce and distribute copies of minutes within 5 days after meetings and transmit to meeting participants.
- .7 Representative of Contractor, Subcontractor and suppliers attending meetings will be qualified and authorized to act on behalf of party each represents.

1.2 PRECONSTRUCTION MEETING

- .1 Departmental Representative will schedule a pre-construction meeting of parties in contract within 10 days after contract award to discuss and resolve administrative procedures and responsibilities.
- .2 Senior representatives of Contractor, major Subcontractors, supervisors to be in attendance.
- .3 After time and location of the meeting has been established, the Contractor to notify parties concerned minimum 5 days before meeting.
- .4 Departmental Representative will record discussions and decisions, and circulate the minutes to all parties in concern.
- .5 Agenda to include:
 - .1 Introduction of the Project Personal.
 - .2 Notice of Award/Agreement.
 - .3 Project Work Review.
 - .4 Project Schedule.
 - .5 Temporary facilities.
 - .6 Permits
 - .7 Access.
 - .8 Security.
 - .9 Occupational Health and Safety.
 - .10 Emergency Services.

- .11 Hours of Work.
- .12 Progress Payment Certificate.
- .13 Lien Fund.
- .14 Force Accounts.
- .15 Contract Change Orders.
- .16 Construction Documents, typical cross sections and site plan.
- .17 Construction Survey.
- .18 Record information in accordance with Section 01 78 00 – Closeout Submittals.
- .19 Material Testing.
- .20 Submissions
- .21 Insurances, transcript of policies.
- .22 Other Business.

1.3 PROGRESS MEETINGS

- .1 Progress meetings though the progress of the work will be held mid project, or as required.
- .2 Contractor, major Subcontractors involved in Work and Departmental Representative are to be in attendance.
- .3 Notify parties' minimum 5 days prior to meetings.
- .4 Departmental Representative will record discussions and decisions, and circulate the minutes to all parties in concern.
- .5 Agenda to include the following:
 - .1 Review, approval of minutes of previous meeting.
 - .2 Construction schedule and review of work progress since previous meeting.
 - .3 Field observations, problems, conflicts.
 - .4 Problems which impede construction schedule.
 - .5 Corrective measures and procedures to regain projected schedule.
 - .6 Revision to construction schedule.
 - .7 Progress schedule, during succeeding work period.
 - .8 Review submittals
 - .9 Pending changes and/or substitutions.
 - .10 Safety issues/concerns.
 - .11 Other business.

Part 2 Products

2.1 NOT USED

.1 Not Used.

Part 3 Execution

3.1 NOT USED

.1 Not Used.

END OF SECTION

Part 1 General

1.1 DEFINITIONS

- .1 Activity: element of Work performed during course of Project. Activity normally has expected duration, and expected cost and expected resource requirements. Activities can be subdivided into tasks.
- .2 Bar Chart (GANTT Chart): graphic display of schedule related information. In typical bar chart, activities or other Project elements are listed down left side of chart, dates are shown across top, and activity durations are shown as date placed horizontal bars. Generally, Bar Chart should be derived from commercially available computerized project management system.
- .3 Baseline: original approved plan (for project, work package, or activity), plus or minus approved scope changes.
- .4 Construction Work Week: Monday to Sunday, inclusive will provide a seven days work week and define schedule calendar working days as part of Bar (GANTT) Chart submission.
- .5 Duration: number of work periods (not including holidays or other nonworking periods) required to complete activity or other project element. Usually expressed as work days or work weeks.
- .6 Master Plan: summary level schedule that identifies major activities and key milestones.
- .7 Milestone: significant event in project, usually completion of major deliverable.
- .8 Project Schedule: planned dates for performing activities and the planned dates for meeting milestones. Dynamic, detailed record of tasks or activities that must be accomplished to satisfy Project objectives. Monitoring and control process involves using Project Schedule in executing and controlling activities and is used as basis for decision making throughout project life cycle.
- .9 Project Planning, Monitoring and Control System: overall system operated by Departmental Representative to enable monitoring of project work in relation to established milestones.

1.2 REQUIREMENTS

- .1 Develop and submit a Project Master Schedule that the Schedules are practical and remain within specified Contract duration.
- .2 Include all identified contract work in the Project Schedule.
- .3 Plan to complete Work in accordance with prescribed milestones and time frame.
- .4 Limit activity durations to maximum of approximately 14 working days, to allow for progress reporting.
- .5 Ensure that it is understood that Award of Contract or time of beginning, rate of progress, Interim Certificate and Final Certificate as defined times of completion are of essence of this contract.

.6 Include the requirements of the following sections in the Project Schedule:

.1 01 11 00 - Summary of Work.

1.3 SUBMITTALS

.1 Submit to Departmental Representative within 10 working days of Award of Contract Bar (GANTT) Chart as Master Plan for planning, monitoring and reporting of project progress.

1.4 PROJECT MILESTONES

.1 Project milestones form interim targets for Project Schedule.

.1 Construction to be performed between May 15 and October 15, 2017, weather permitted.

1.5 MASTER PLAN

.1 Structure schedule to allow orderly planning, organizing and execution of Work as Bar Chart (GANTT).

.2 Departmental Representative will review and return revised schedules within 5 working days.

.3 Revise impractical schedule and resubmit within 5 working days.

.4 Accepted revised schedule will become Master Plan and be used as baseline for updates.

1.6 PROJECT SCHEDULE

.1 Develop detailed Project Schedule derived from Master Plan.

.2 Ensure detailed Project Schedule includes as minimum milestone and activity types for each road as follows:

.1 Mobilization.

.2 Start and completion dates of each phase, specifically identifying the duration between the asphalt trail will be removal and the pouring of the concrete walk.

.3 Asphalt repairs.

.4 Demobilization.

1.7 PROJECT SCHEDULE REPORTING

.1 Update Project Schedule on weekly basis reflecting activity changes and completions, as well as activities in progress.

.2 Include as part of Project Schedule, narrative report identifying Work status to date, comparing current progress to baseline, presenting current forecasts, defining problem areas, anticipated delays and impact with possible mitigation.

Part 2 Products

2.1 NOT USED

.1 Not Used.

Part 3 Execution

3.1 NOT USED

.1 Not Used.

END OF SECTION

Part 1 General

1.1 SUBMITTAL REQUIREMENTS

- .1 Project schedule: List of Sub-contracts and Suppliers.
- .2 Security Clearances for all workers including sub-contractors.
- .3 Contractors chain of command including Subcontractors.
- .4 Work plan.
- .5 Shop Drawings.
- .6 Asphalt Mix Design and product data.
- .7 Concrete Mix Design.
- .8 Certificates.
- .9 Emergency Response Plan.
- .10 Site specific Health and Safety Plan.
- .11 Submit WHMIS MSDS - Material Safety Data Sheets
- .12 Hazardous Spill Plan.
- .13 Record Information and all Pertaining Reports.
- .14 Material Quality Control Test Results

1.2 ADMINISTRATIVE

- .1 Submit to Departmental Representative submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .2 At Departmental Representative's request, prepare and submit schedule fixing dates for submission and return shop drawings, product data and or samples.
- .3 Do not proceed with Work affected by submittal until review is complete.
- .4 Present shop drawings, product data, samples and mock ups in SI Metric units.
- .5 Where items or information is not produced in SI Metric units converted values are not acceptable.
- .6 Review submittals prior to submission to Departmental Representative. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and coordinated 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 considered rejected.
- .7 Notify Departmental Representative, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .8 Verify field measurements and affected adjacent Work are coordinated.
- .9 Contractor's responsibility for errors and omissions in submission is not relieved by Departmental Representative's review of submittals.

- .10 Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Departmental Representative review.
- .11 Keep one reviewed copy of each submission on site.

1.3 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 Province of Alberta.
- .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 5 days for Departmental Representative's review of each submission.
- .5 Adjustments made on shop drawings by Departmental Representative are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
- .6 Make changes in shop drawings as Departmental Representative may require, consistent with Contract Documents. When resubmitting, notify Departmental Representative in writing of revisions other than those requested.
- .7 Accompany submissions with transmittal letter, 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 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 Performance characteristics.
 - .4 Standards.
 - .5 Relationship to adjacent work.
- .9 After Departmental Representative's review, distribute copies.
- .10 Submit electronic copies of certificates for requirements requested in specification Sections and as requested by Departmental Representative.
- .11 Submit electronic copies of manufacturers instructions for requirements requested in specification Sections and as requested by Departmental Representative.
- .12 Submit electronic copies of Manufacturer's Field Reports for requirements requested in specification Sections and as requested by Departmental Representative.
- .13 Documentation of the testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.
- .14 Delete information not applicable to project.
- .15 Supplement standard information to provide details applicable to project.
- .16 If upon review by Departmental Representative, 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.
- .17 The review of shop drawings by Departmental Representative is for sole purpose of ascertaining conformance with general concept.
 - .1 This review shall not mean that Departmental Representative approves detail design inherent in shop drawings, responsibility for which shall remain with Contractor submitting same, and such review shall not relieve Contractor of responsibility for errors or omissions in shop drawings or of responsibility for meeting requirements of construction and Contract Documents.
 - .2 Without restricting generality of foregoing, Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of Work of sub-trades.

1.4 CERTIFICATES AND TRANSCRIPTS

- .1 Immediately after award of Contract, submit Workers' Compensation Board status.
- .2 Submit transcription of insurance immediately after award of Contract.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

.1 Not Used.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations
- .2 Province of Alberta
 - .1 Occupational Health and Safety Act, R.S.A. 2000.

1.2 SUBMITTALS

- .1 Make submittals in accordance with Section 01 33 00 Submittal Procedures.
- .2 Submit site specific Health and Safety Plan: Within 14 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 copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .4 Submit copies of incident and accident reports.
- .5 Submit WHMIS MSDS - Material Safety Data Sheets.
- .6 Departmental Representative will review Contractor's site specific Health and Safety Plan and provide comments to Contractor within 7 days after receipt of plan. Revise plan as appropriate and resubmit plan to Departmental Representative within 7 days after receipt of comments from Departmental Representative.
- .7 Departmental Representative'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.
- .8 Submit, and post at work site, the emergency numbers for police, fire and ambulance for the locale of the work, as well as the names and after hours number for key site personal related to health, safety or security of the site.

1.3 SAFETY ASSESSMENT

- .1 Perform site specific safety hazard assessment related to project.

1.4 MEETINGS

- .1 Pre-Construction meeting to include a Health and Safety meeting with Departmental Representative prior to commencement of Work.
- .2 Arrange for "Tool Box" safety meetings and submit report to Departmental Representative on a weekly basis.

1.5 REGULATORY REQUIREMENTS

- .1 Do Work in accordance with Section 01 41 00 Regulatory Requirements.
- .2 Comply with the specified standards and regulations to ensure safe operations on site.

1.6 GENERAL REQUIREMENTS

- .1 Develop written site specific Health and Safety Plan based on hazard assessment prior to beginning site Work and continue to implement, maintain, and enforce plan until final demobilization from site. Health and Safety Plan must address project specifications.
- .2 Departmental Representative may respond in writing, where deficiencies or concerns are noted and may request re submission with correction of deficiencies or concerns.

1.7 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 statutes, regulations, and ordinances, and with site specific Health and Safety Plan.

1.8 COMPLIANCE REQUIREMENTS

- .1 Comply with Occupational Health and Safety Act, General Safety Regulation, Alberta Reg. 62/2003.

1.9 UNFORESEEN HAZARDS

- .1 When unforeseen or peculiar safety related 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 Alberta and advise Departmental Representative verbally and in writing.

1.10 HEALTH AND SAFETY COORDINATOR

- .1 Employ and assign to Work, competent and authorized representative to fulfill the role as Health and Safety Coordinator. The supervisor or foreman may satisfy the role of Health and Safety Coordinator. Health and Safety Coordinator must:
 - .1 Have site related working experience.
 - .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 to perform Work.
 - .4 Be responsible for implementing, enforcing daily and monitoring site specific Contractor's Health and Safety Plan.
 - .1 Be on site during execution of Work and report directly to and be under direction of site supervisor.

1.11 POSTING OF DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of Province Alberta having jurisdiction, and in consultation with Departmental Representative.

1.12 CORRECTION OF NON COMPLIANCE

- .1 Immediately address health and safety non compliance issues identified by authority having jurisdiction or by Departmental Representative.
- .2 Provide Departmental Representative with written report of action taken to correct non compliance of health and safety issues identified.
- .3 Departmental Representative may stop Work if non compliance of health and safety regulations is not corrected.

1.13 WORK STOPPAGE

- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.

Part 2 Products

2.1 NOT USED

- .1 Not used.

Part 3 Execution

3.1 NOT USED

- .1 Not used.

END OF SECTION

Part 1 General

1.1 REFERENCES AND CODES

- .1 Perform Work in accordance with the codes, regulations, and standard listed below Amendments up to tender closing date and other codes of provincial or local application provided that in case of conflict or discrepancy, more stringent requirements apply:
 - .1 Alberta Transportation and Utilities.
 - .2 National Transportation Agency Canada.
 - .3 Alberta Environment and Parks.
 - .4 Fisheries and Oceans Canada.
 - .5 Navigation Protection Act.
 - .6 Environment Canada.
 - .7 Municipal Utilities.
 - .8 Occupational Health and Safety.
- .2 Meet or exceed requirements of:
 - .1 Contract documents.
 - .2 Specified standards, codes and referenced documents.

1.2 COMPLIANCE WITH REGULATIONS

- .1 Ascertain requirements and regulations listed above.
- .2 Comply with all such requirements and regulations as applicable to the work.
- .3 Requirements set out in this section are for guidance and information are not necessarily complete.

1.3 SECURITY CLEARANCES

- .1 Obtain all required security clearance for all workers and sub-contractor workers.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION

Part 1 General

1.1 TESTING LABORATORY SERVICES

- .1 Qualified Testing Agency will be engaged by the Contractor for purpose of testing portions of Work. Cost of such services will be borne by Contractor and claimed in accordance with Section 01 27 00.

1.2 INSPECTION

- .1 Allow Departmental Representative 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.
- .2 Give timely notice requesting inspection if Work is designated for special tests, inspections or approvals by Departmental Representative instructions, or law of Place of Work.
- .3 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.
- .4 Departmental Representative will order 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.

1.3 ACCESS TO WORK

- .1 Allow inspection/testing agencies access to Work, off site manufacturing and fabrication plants.
- .2 Cooperate to provide reasonable facilities for such access.

1.4 PROCEDURES

- .1 Notify Departmental Representative 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 orderly sequence to not cause delays 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.

1.5 REJECTED WORK

- .1 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 Departmental Representative as failing to conform to Contract Documents. Replace or re execute in accordance with Contract Documents.
- .2 Make good other Contractor's work damaged by such removals or replacements promptly.
- .3 If in opinion of Departmental Representative, it is not expedient to correct defective Work or Work not performed in accordance with Contract Documents, Departmental

Representative. will deduct from Contract Price difference in value between Work performed and that called for by Contract Documents, amount of which will be determined by Departmental Representative.

1.6 REPORTS

- .1 Submit 4 copies of inspection and test reports to Departmental Representative.
- .2 Provide copies to subcontractor of work being inspected or tested.

1.7 MIX DESIGNS

- .1 Furnish test results and mix designs as requested.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION

Part 1 General

1.1 INSTALLATION AND REMOVAL

- .1 Prepare site plan indicating proposed location and dimensions of area to be fenced and used by Contractor for each phase of work, avenues of ingress/egress to fenced area and details of fence installation.
- .2 Indicate use of supplemental or other staging area.
- .3 Provide construction facilities in order to execute work expeditiously.
- .4 Remove from site all such work after use.

1.2 SITE STORAGE/LOADING

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

1.3 CONSTRUCTION PARKING

- .1 Parking will only be along the existing roadway.
- .2 Provide and maintain adequate access to project site.

1.4 EQUIPMENT, TOOL AND MATERIALS STORAGE

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

1.5 SANITARY FACILITIES

- .1 Provide sanitary facilities for work force in accordance with governing regulations and ordinances.
- .2 Post notices and take precautions as required by local health authorities. Keep area and premises in sanitary condition.

1.6 CONSTRUCTION SIGNAGE

- .1 Contractor to provide a site specific traffic accommodation plan. Departmental Representative will review and approve the traffic accommodation plan.
- .2 Provide and erect project signage as per traffic accommodation plan
- .3 Signs and notices for safety and instruction in both official languages graphic symbols to CAN/CSA Z321.
- .4 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 Departmental Representative.

1.7 PROTECTION AND MAINTENANCE OF TRAFFIC

- .1 Provide measures for protection and diversion of traffic, including provision of watch-persons and flag-persons, erection of barricades, placing of lights around and in front of equipment and work, and erection and maintenance of adequate warning, danger, and direction signs
- .2 Contractor's traffic on roads selected for hauling material to and from site to interfere as little as possible with public traffic.
- .3 Verify adequacy of existing roads and allowable load limit on these roads. Contractor: responsible for repair of damage to roads caused by construction operations.
- .4 Dust control: adequate to ensure safe operation at all times.

1.8 CLEAN-UP

- .1 Remove construction debris, waste materials, packaging material from work site daily.
- .2 Clean dirt or mud tracked onto paved or surfaced roadways.
- .3 Store materials resulting from demolition activities that are salvageable.
- .4 Stack stored new or salvaged material not in construction facilities.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 Canadian General Standards Board (CGSB)
 - .1 CGSB 1.59 , Alkyd Exterior Gloss Enamel.
 - .2 CAN/CGSB 1.189-, Exterior Alkyd Primer for Wood.
- .2 Canadian Standards Association (CSA International)
 - .1 CSA O121 M1978(R2003), Douglas Fir Plywood.
- .3 Public Works Government Services Canada (PWGSC) Standard Acquisition Clauses and Conditions (SACC)-ID: R0202D, Title: General Conditions 'C', In Effect as of: May 14, 2004.

1.2 INSTALLATION AND REMOVAL

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

1.3 FENCES AND BARRICADES

- .1 Provide secure, rigid fences and barricades around deep excavations and work area.
- .2 Provide as required by governing authorities.
- .3 Refer to Annex A - Technical Reference Guideline for temporary security fencing requirements.

1.4 ACCESS TO SITE

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

1.5 PUBLIC TRAFFIC FLOW

- .1 Provide a Traffic Accommodation Strategy identifying public traffic flow.
- .2 Provide and maintain competent signal flag operators, traffic signals, barricades and flares, lights, or lanterns as required to perform Work and protect public.

1.6 FIRE ROUTES

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

1.7 PROTECTION FOR OFF SITE AND PUBLIC PROPERTY

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

1.8 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

Part 2 **Products**

2.1 **NOT USED**

.1 Not Used.

Part 3 **Execution**

3.1 **NOT USED**

.1 Not Used.

END OF SECTION

Part 1 General

1.1 QUALITY

- .1 Products, materials, equipment and articles incorporated in Work shall be new, not damaged or defective, and of best quality for purpose intended. If requested, furnish evidence as to type, source and quality of products provided.
- .2 Defective products, whenever identified prior to completion of Work, will be rejected, regardless of previous inspections. Inspection does not relieve responsibility, but is precaution against oversight or error. Remove and replace defective products at own expense and be responsible for delays and expenses caused by rejection.
- .3 Should disputes arise as to quality or fitness of products, decision rests strictly with Departmental Representative based upon requirements of Contract Documents.
- .4 Unless otherwise indicated in specifications, maintain uniformity of manufacture for any particular or like item throughout building.
- .5 Permanent labels, trademarks and nameplates on products are not acceptable in prominent locations, except where required for operating instructions, or when located in mechanical or electrical rooms.

1.2 AVAILABILITY

- .1 Immediately upon signing Contract, review product delivery requirements and anticipate foreseeable supply delays for items. If delays in supply of products are foreseeable, notify Departmental Representative of such, in order that substitutions or other remedial action may be authorized in ample time to prevent delay in performance of Work.
- .2 In event of failure to notify Departmental Representative at commencement of Work and should it subsequently appear that Work may be delayed for such reason, Departmental Representative reserves right to substitute more readily available products of similar character, at no increase in Contract Price or Contract Time.

1.3 STORAGE, HANDLING AND PROTECTION

- .1 Handle and store products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.
- .2 Store packaged or bundled products in original and undamaged condition with manufacturer's seal and labels intact. Do not remove from packaging or bundling until required in Work.

- .3 Store products subject to damage from weather in weatherproof enclosures.
- .4 Store cementitious products clear of earth or concrete floors, and away from walls.
- .5 Keep sand, when used for grout or mortar materials, clean and dry. Store sand on wooden platforms and cover with waterproof tarpaulins during inclement weather.
- .6 Store sheet materials, lumber and pipe on flat, solid supports and keep clear of ground. Slope to shed moisture.
- .7 Remove and replace damaged products at own expense and to satisfaction of Department Representative.

1.4 TRANSPORTATION

- .1 Pay costs of transportation of products required in performance of Work.
- .2 Transportation cost of products supplied by Departmental Representative. will be paid for by Departmental Representative. Unload, handle and store such products.

1.5 MANUFACTURER'S INSTRUCTIONS

- .1 Unless otherwise indicated in specifications, install or erect products in accordance with manufacturer's instructions. Do not rely on labels or enclosures provided with products. Obtain written instructions directly from manufacturers.
- .2 Notify Departmental Representative in writing, of conflicts between specifications and manufacturer's instructions, so that Departmental Representative Department Representative will establish course of action.
- .3 Improper installation or erection of products, due to failure in complying with these requirements, authorizes Departmental Representative to require removal and re installation at no increase in Contract Price or Contract Time.

1.6 QUALITY OF WORK

- .1 Ensure Quality of Work is of highest standard, executed by workers experienced and skilled in respective duties for which they are employed. Immediately notify Departmental Representative if required Work is such as to make it impractical to produce required results.
- .2 Do not employ anyone unskilled in their required duties. Departmental Representative reserves right to require dismissal from site, workers deemed incompetent or careless.
- .3 Decisions as to standard or fitness of Quality of Work in cases of dispute rest solely with Departmental Representative, whose decision is final.

1.7 CO ORDINATION

- .1 Ensure co-operation of workers in laying out Work. Maintain efficient and continuous supervision.

1.8 REMEDIAL WORK

- .1 Perform remedial work required to repair or replace parts or portions of Work identified as defective or unacceptable. Co-ordinate adjacent affected Work as required.
- .2 Perform remedial work by specialists' familiar with materials affected. Perform in a manner to neither damage nor put at risk any portion of Work.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION

1 General

1.1 REQUIREMENTS INCLUDED

- .1 Contractor is to engage a qualified surveyor to carry out the construction survey.
- .2 Assume full responsibility for and execute complete layout of work to locations, lines and elevations indicated, for purposes of construction and quantity measurement.
- .3 Provide devices needed to lay-out and construct work.
- .4 Supply such devices as straight edges and templates required to facilitate Departmental Representative's inspection of work.
- .5 Supply stakes and other survey markers required for laying out work.

1.2 SURVEY REFERENCE POINTS AND LEGAL SURVEY MARKERS

- .1 Locate, confirm and protect control points and legal survey markers prior to starting site work. Preserve permanent reference points during construction.
- .2 Control point and legal survey markers that will be affected by construction work or will be not visible during construction are to be relocated after written notice and approval of new locations with Departmental Representative.
- .3 Make no changes or relocations without prior written notice to Departmental Representative.
- .4 Report to Departmental Representative when a reference point or legal survey maker is lost or destroyed, or requires relocation because of necessary changes in grades or locations.

1.3 SURVEY REQUIREMENTS

- .1 Establish lines and levels, locate and lay out, by instrumentation.
- .2 Complete any preliminary, ongoing or as built surveys required to calculate quantities.

1.4 RECORDS

- .1 Maintain a complete, accurate log of control and survey work as it progresses.

1.5 SUBMITTALS

- .1 Submit name and address of Surveyor to Departmental Representative, minimum two (2) weeks prior to construction commencing.

- .2 On request of Departmental Representative, submit documentation to verify accuracy of field engineering work including but not limited to the following:
 - .1 Construction Completion Certificate will not be issued until as-built drawings are submitted and approved.
 - .2 Grade Sheets shall be provided for all lay out activities including, but not limited to paving.
Monthly quantities: Provide copies of survey information digitally in ASCII format for confirmation of quantities.
- .3 Submit certificate signed by Surveyor certifying that elevations and locations of completed Work are in conformance, or non-conformance with Contract Documents.

2 Products

- .1 Not Used

3 Execution

- .1 Not Used

END OF SECTION

Part 1 General

1.1 SUBMITTALS

- .1 Submittals: in accordance with Section 01 33 00 Submittal Procedures.

1.2 MATERIALS

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

1.3 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.

1.4 EXECUTION

- .1 Execute cutting, fitting, and patching including excavation and fill, to complete Work.
- .2 Remove and replace defective and non conforming Work.
- .3 Execute Work by methods to avoid damage to other Work, and which will provide proper surfaces to receive patching and finishing.
- .4 Restore work with new products in accordance with requirements of Contract Documents.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 Public Works Government Services Canada (PWGSC) Standard Acquisition Clauses and Conditions (SACC)-ID: R0202D, Title: General Conditions "C", In Effect as of: May 14, 2004.

1.2 PROJECT CLEANLINESS

- .1 Maintain Work in tidy condition, free from accumulation of waste products and debris.
- .2 Remove waste materials from site at daily regularly scheduled times or dispose of as directed by Departmental Representative. Do not burn waste materials on site.
- .3 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .4 Provide on-site containers for collection of waste materials and debris.
- .5 Dispose of waste materials and debris off site or as directed by the Departmental Representative.
- .6 Promptly clean up any spillage that occurs on construction site, site roads, access roads or public roads, or other areas where construction vehicles are travelling. Notify Departmental Representative of any spillage occurred on site.
- .7 If Contractor is negligent in maintaining cleanliness on construction site, site roads, access roads or public roads, or other areas where construction vehicles are travelling, Departmental Representative will arrange for cleaning to be completed at Contractor's expense. The costs will be subtracted from final progress payment.
- .8 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.

1.3 FINAL CLEANING

- .1 When Work is Substantially Performed remove surplus products, tools, construction machinery and equipment not required for performance of remaining Work.
- .2 Remove waste products and debris other than that caused by others, and leave Work clean and suitable for occupancy.
- .3 Prior to final review remove surplus products, tools, construction machinery and equipment.
- .4 Remove waste materials from site at regularly scheduled times or dispose of as directed by Departmental Representative. Do not burn waste materials on site,
- .5 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.

- .6 Inspect finishes, fitments and equipment and ensure specified workmanship and operation.
- .7 Remove dirt and other disfiguration from exterior surfaces.
- .8 Sweep and wash clean paved areas.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION

Part 1 General

1.1 DEFINITIONS

- .1 Inert Fill: inert waste - exclusively asphalt and concrete.
- .2 Recyclable: ability of product or material to be recovered at end of its life cycle and re manufactured into new product for reuse.
- .3 Recycle: process by which waste and recyclable materials are transformed or collected for purpose of being transferred into new products.
- .4 Recycling: process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for purpose of using in altered form. Recycling does not include burning, incinerating, or thermally destroying waste.
- .5 Reuse: repeated use of product in same form but not necessarily for same purpose. Reuse includes:
 - .1 Salvaging reusable materials from re modelling projects, before demolition stage, for resale, reuse on current project or for storage for use on future projects.
 - .2 Returning reusable items including pallets or unused products to vendors.
- .6 Salvage: removal of structural and non structural materials from deconstruction/disassembly projects for purpose of reuse or recycling.
- .7 Separate Condition: refers to waste sorted into individual types.

1.2 MATERIALS SOURCE SEPARATION PROGRAM (MSSP)

- .1 Provide on site facilities for collection, handling, and storage of anticipated quantities of reusable and recyclable materials.
- .2 Provide containers to deposit reusable and recyclable materials.
- .3 Locate containers in locations, to facilitate deposit of materials without hindering daily operations.
- .4 Locate separated material in area which minimize material damage.
- .5 Collect, handle, store on site, and transport off site, salvaged materials in separate condition.
 - .1 Transport to approved and authorized recycling facility.
- .6 Collect, handle, store on site, and transport off site, salvaged materials in combined condition.

1.3 WASTE PROCESSING SITES

- .1 All waste, dumping and debris sites to be determined by Contractor and subject to approval by the Departmental Representative.

1.4 STORAGE, HANDLING AND PROTECTION

- .1 Store, materials to be reused, recycled and salvaged in locations as directed by Departmental Representative.

- .2 Protect, stockpile, store and catalogue salvaged items.
- .3 Separate non salvageable materials from salvaged items. Transport and deliver non salvageable items to licensed disposal facility.
- .4 Protect surface drainage, mechanical and electrical from damage and blockage.
- .5 Separate and store materials produced during dismantling of structures in designated areas.
- .6 Prevent contamination of materials to be salvaged and recycled and handle materials in accordance with requirements for acceptance by designated facilities.

1.5 DISPOSAL OF WASTES

- .1 Do not bury rubbish or waste materials.
- .2 Do not dispose of waste mineral spirits oil paint thinner into waterways, storm, or sanitary sewers.
- .3 Haul clean concrete materials offsite unless otherwise directed by Departmental Representative.
- .4 Remove materials from deconstruction as deconstruction/disassembly Work progresses.
- .5 Prepare project summary to verify destination and quantities on a material by material basis as identified in pre demolition material audit.

1.6 USE OF SITE AND FACILITIES

- .1 Execute work with least possible interference or disturbance to normal use of premises.

1.7 SCHEDULING

- .1 Co-ordinate Work with other activities at site to ensure timely and orderly progress of Work.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION

Part 1 General

1.1 ADMINISTRATIVE REQUIREMENTS

- .1 Acceptance of Work Procedures:
 - .1 Contractor's Inspection: Contractor: conduct inspection of Work, identify deficiencies and defects, and repair as required to conform to Contract Documents.
 - .1 Notify Departmental Representative in writing of satisfactory completion of Contractor's inspection and submit verification that corrections have been made.
 - .2 Request Departmental Representative inspection.
 - .2 Departmental Representative Inspection:
 - .1 Departmental Representative and Contractor to inspect Work and identify defects and deficiencies.
 - .2 Contractor to correct Work as directed.
 - .3 Completion Tasks: submit written certificates that tasks have been performed as follows:
 - .1 Work: completed and inspected for compliance with Contract Documents.
 - .2 Defects: corrected and deficiencies completed.
 - .3 Work: complete and ready for final inspection.
 - .4 Final Inspection:
 - .1 When completion tasks are done, request final inspection of Work by Departmental Representative, and Contractor.
 - .2 When Work incomplete according to Departmental Representative, complete outstanding items and request re-inspection.
 - .5 Payment of Holdback: after issuance of Certificate of Substantial Performance of Work, submit application for payment of holdback amount in accordance with contractual agreement.

1.2 FINAL CLEANING

- .1 Clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Remove surplus materials, excess materials, rubbish, tools and equipment.
 - .2 All disturbed areas including the lay-down yard shall be returned to their original condition.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

.1 Not Used.

END OF SECTION

Part 1 General

1.1 AS BUILT DOCUMENTS AND SAMPLES

- .1 Maintain, in addition to requirements in General Conditions, at site for Departmental Representative one record copy of:
 - .1 Drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Change Orders and other modifications to 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 on site apart from documents used for construction.
 - .1 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.
 - .1 Label each document "PROJECT RECORD" in neat, large, printed letters.
- .4 Maintain record documents in clean, dry and legible condition.
 - .1 Do not use record documents for construction purposes.
- .5 Keep record documents and samples available for inspection by Departmental Representative.

1.2 RECORDING INFORMATION ON PROJECT RECORD DOCUMENTS

- .1 Record information on set of black line opaque drawings.
- .2 Record information concurrently with construction progress.
 - .1 Do not conceal Work until required information is recorded.
- .3 Contract Drawings and shop drawings: mark each item to record actual construction, including:
 - .1 Field changes of dimension and detail.
 - .2 Changes made by change orders.
 - .3 Details not on original Contract Drawings.
 - .4 References to related shop drawings and modifications.

- .4 Specifications: 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.
- .5 Other Documents: maintain field test records, required by individual specifications sections.
- .6 Provide digital photos, if requested, for site records.

1.3 WARRANTIES AND BONDS

- .1 Warranty period of two (2) years from the date of substantial performance as determined by the Departmental Representative shall be applied for all project related items.
- .2 Unless otherwise specified, all materials incorporated into the work must be new and undamaged. Both workmanship and materials must be of the quality specified in the Contract Documents.
- .3 List subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.
- .4 Obtain warranties and bonds, executed in duplicate by subcontractors, suppliers, and manufacturers, within ten days after completion of applicable item of work.
- .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.
- .8 Except for items put into use with Departmental Representative's permission, leave date of beginning of time of warranty until Date of Substantial Performance is determined.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION