

**Part 1            General**

**1.1                MINIMUM STANDARDS**

- .1        Execute work to meet or exceed:
  - .1        National Building Code (Latest Edition) unless more stringent requirements of National Building Code of Canada (Latest Edition) apply, including all amendments up to project date.
  - .2        National Fire Code (Latest Edition)
  - .3        Workers Compensation Act, S.N.W.T. 2007, c.21, in force April 1, 2008, with latest amendments.
  - .4        Health Canada/Workplace Hazardous Materials Information System (WHMIS).
    - 1. Material Safety Data Sheets (MSDS).
  - .5        Northwest Territory & Nunavut Code of Practice, Personal Protective Equipment.
  - .6        Canadian Construction Safety Code (Latest Edition).
  - .7        Rules and regulations of authorities having jurisdiction.

**1.2                OVERTIME**

- .1        Overtime costs shall be included in the Unit and Stipulated Prices provided in the form of Tender. No extra costs will be paid by Owner for work which must be performed outside normal working hours.

**1.3                EXAMINATION OF PLANS, SPECIFICATIONS AND SITE OF WORK**

- .1        Bidders shall carefully examine and study all of the contract specifications and the site of the work in order to satisfy themselves by examination as to all conditions affecting the contract, the detailed requirements of the construction and extent of work involved.
- .2        Tenderers shall confirm overall dimensions and quantity of work and notify Consultant of any discrepancies noted. No consideration shall be given for claims for extra compensations beyond that shown in the documents.
- .3        No tenderer may claim at any time after submission of a tender that there was any misunderstanding of the terms and conditions of the contract relating to the site conditions.

**1.4                TAXES**

- .1        Pay applicable Federal, Provincial and Municipal taxes.

**1.5                FEES, PERMITS AND CERTIFICATES**

- .1        Provide authorities having jurisdiction with information requested.
- .2        Pay fees and obtain certificates and permits required. Furnish certificates and permits when requested.

**1.6 FORM OF AGREEMENT**

- .1 The Canadian Standard Construction Document CCDC Document No. 2. (Stipulated Price Contract) will be used for this project. The General Conditions attached thereto and the Supplementary General Conditions contained within this specification will govern the performance of this project.
- .2 The Contractor must be familiar with this document.

**1.7 WORKPLACE SAFETY & INSUREANCE BOARD (WSIB)**

- .1 The contractor shall, at the time of entering into any contract with the Owners, at such intervals as required to demonstrate good standing, and at substantial performance, provide a Clearance Certificate from the WSIB.
- .2 The tenderer whose tender has been recommended to the owners for acceptance shall submit this Clearance Certificate to the Consultant in triplicate together with the agreement. One (1) copy of the Clearance Certificate shall be bound into each of the three (3) executed sets of the contract.

**1.8 DOCUMENTS**

- .1 Keep one copy of contract documents on the site.
- .2 Specifications shall govern over Drawings.
- .3 Where details shown on the drawing or in the specification are not in accordance with manufacturer's requirement, Contractor to notify Consultant immediately.

**1.9 ADDITIONAL DRAWINGS**

- .1 Consultant may furnish additional drawings to clarify work. Such documents become part of Contract Documents.

**1.10 AS-BUILT DRAWINGS**

- .1 Obtain from Consultant at commencement of work, two (2) sets of white prints of drawings for purpose of recording changes and deviations to work as-built.
- .2 Maintain these prints and make available to trades so that all changes and deviations may be recorded promptly as they occur. Be responsible for ensuring that such record of all changes is up to date at all times. Upon completion of work, return these drawings complete and in good condition to Consultant so that owner will have record of exact location of all services and equipment.

**1.11 SUBMITTALS**

- .1 Submit with each progress billing Clearance Certificate from WSIB and a Statutory Declaration (after first billing).

- .2 Upon completion of the work and prior to the issuing of the Completion Payment Certificate the Contractor shall submit in the following:
  - .1 Respective guarantees on materials and workmanship in writing and signed as required by the Contract Documents.
  - .2 As-built drawings indicating the locations and approximate shape and size of all repairs carried out under the contract.
  - .3 A letter from the WSIB stating that the contractor has complied with the requirements of the Workers Compensation Act and of the Contract Completion Date.
  - .4 A completed signed and sealed Statutory Declaration Form CCDC 9A 2001 Edition.

**1.12 SUPERVISION**

- .1 Ensure that any defects discovered are corrected before continuing work.
- .2 Ensure site conditions are satisfactory for execution of work. Address to Consultant all questions on work. Consultant will transmit verbal instructions through contractor's superintendent.
- .3 The Contractor shall have a competent person for emergency calls after construction hours and during weekends. It shall be the Contractor's responsibility to supply the Owner's representative with the name and telephone number of the person to be contacted during these periods.

**1.13 PLANT**

- .1 Supply all transportation, labour, materials, shoring, scaffolds, tools, cranes, derricks, plant and equipment to continuously carry out work, in an efficient manner.

**1.14 CO-ORDINATION AND CO-OPERATION**

- .1 Execute work with minimum disturbance to occupants, public and normal use of site and building. Maintain access and exits. Where security has been reduced by work of contract, provide temporary means to maintain security.

**1.15 PROTECTION**

- .1 Be responsible for use of building and premises from time site turned over for execution of contract until final acceptance.
- .2 Protect surfaces and finishes of building, services, equipment, vehicles and pedestrians using building and adjacent areas, and all other conditions and uses, during construction from operations of work. Repair any damage with material and finish to match original.

**1.16 USE OF SITE FACILITIES**

- .1 The Contractor shall provide washroom services.

- .2 The Contractor shall assume all liability for, and be responsible for loss of or damage to, all equipment and materials stored on site, and for any equipment or materials delivered from whatever source to the site of the work.
- .3 The Contractor shall arrange, pay for connection fee and maintain temporary electrical power supply in accordance with governing regulations and ordinances. The Contractor shall responsible for all cost associated with the use of temporary electrical power supply.

**1.17 TEMPORARY FACILITIES AND SERVICES**

- .1 The Contractor shall provide and maintain temporary facilities and services required to carry out the work.
- .2 At the completion of the work, all temporary connections and equipment shall be removed and the services and finishes shall be made good by the Contractor to the satisfaction of the Owner.

**1.18 SITE ACCESS**

- .1 The Contractor shall provide access to and about the site to ensure continuous and efficient delivery and movement of materials and equipment. Arrange routes so that they do not conflict with Owner's operations.

**1.19 GARBAGE**

- .1 Provide garbage container for use by all trades and maintain it a safe distance from finished work in a location approved by Owner and Consultant.

**1.20 INTERFERENCE**

- .1 Work requiring the shutdown of any of the owner's existing services or equipment must not be done without prior written approval, and according to the agreed construction schedule unless other arrangements are specifically arranged for through Consultant.

**1.21 MATERIAL AND EQUIPMENT**

- .1 Use new products unless otherwise specified. Deliver and store material and equipment with manufacturer's labels and seals intact.
- .2 When material or equipment is specified by standard or performance specifications, upon request of Consultant, obtain from manufacturer an independent testing laboratory report, stating that material or equipment meets or exceeds specified requirements.

**1.22 ADDITIONAL CONSULTANTS FEE**

- .1 When the Consultant incurs additional cost directly as a result of the failure of the Contractor to perform the Contract in a reasonable manner and when initial tests and inspections reveal work not to the requirements of the contract documents, the Contractor shall pay for additional tests, inspections, and contract administration required by the Consultant for the corrected work. The additional fees (including HST) shall be deducted

from the Contractors progress payment claims. The Contractor will be made aware of the Consultants additional fees in writing. The Consultants invoice will be submitted with the Contractors progress billing. The Owner will pay the Consultant the amount deducted from the Contractors progress billing.

**END OF SECTION 01 00 50**

**Part 1            General**

**1.1               GENERAL CONDITIONS**

- .1       Sections of division 1 - general requirements, as applicable, shall form part of this summary and scope of work and of the contract.
- .2       Each Contractor shall examine and become familiar with the work, specifications and drawings of all other Contractors which may affect the Work of the Contractor.
- .3       This Summary and Scope of Work shall be read in conjunction with and form part of this Contract, and is intended to indicate the extent of the work and responsibilities to be undertaken by this Contractor.

**1.2               Scope of Work**

- .1       This Section includes the provisions for the repair of the existing metal roof system along with removal and replacement of a designated area of the existing roof system as indicated on the drawings and specified herein.
- .2       This section of work includes all labour, materials, equipment and services necessary or required to complete the work specified.
- .3       In instances where more than one code, regulation or specification requirement may exist, the more restrictive requirement shall govern. Contractor shall provide written notification to the Owner and Consultant where clarification is required or conflict in governance exists.
- .4       Supply and installation of all required temporary safety systems, fencing, protective covered entrance hoarding, barriers, equipment and site security necessary to complete the work in a safe manner and in conformance with the contract documents.
- .5       In general the scope of work includes:
  - .1       Removal and replacement of the metal roof system in the area defined within the design documents.
  - .2       Removal of all existing perimeter and end lap seals, this material shall include previously installed painted finishes and treatments, sealants and asphalt bitumen.
  - .3       Supply and installation of new micro-tape seals at all end laps within the entire metal roof system.
  - .4       Supply and installation of new micro-tape seals at all lightning arrest anchor locations within the entire metal roof system.
  - .5       Supply and installation of new micro-tape seals along the top of all existing standing seam joints within the areas specified or directed by the Consultant.
  - .6       Supply and installation of new micro-tape seals along the perimeter of the roof system on all four elevations. This work includes installation of tape seals at:
    - .1       All end laps within the entire roof deck.

- .2 All standing seams within the entire roof deck.
- .3 All perimeter joints along the north, south, east and west elevations.
- .4 All lighting arrest system cable securement straps and rods.
- .5 New and existing joints within the rain gutters along the north and south elevations of the building.
- .7 Installation of new exhaust and vent stack membrane flashing.
- .8 Replacement of damaged section of rain gutter and accessories necessary to install new length of rain gutter on the north elevation of the building.
- .9 Installations shall include all necessary material, equipment, accessories and trim required to complete the Scope of Work as defined within the Contract Documents.
- .6 The existing roof system has 51 panels on the short access and 5 panels (per side, total of 10) on the long access of the roof system. The roof deck has a total of 510 end laps to be repaired.
- .7 Removal and transport of all construction debris from the site and disposal of all construction debris at an approved landfill site. The Contractor's bid amount shall include all costs and fees related to and associated with the transportation and disposal of all construction waste and debris.
- .8 The Contractor shall be responsible for confirming the installation requirements. Errors and omissions in the Contractor's bid submissions do not relieve the Contractor of their responsibilities to supply the materials and services defined within the Contract Documents.

### **1.3 DESIGN REQUIREMENTS**

- .1 Design replacement roof system to resist
  - .1 Snow loads and snow build-up and rain load, expected in this geographical region NBCC climatic data, 50 year probability.
    - .1 Snow Load- 2.5 KPa
  - .2 Wind loads, positive and negative, expected in this geographical region NBCC climatic data, 50 year probability.
    - .1 (1/50)- 0.75 KPa
  - .3 Dead load of roof system.
  - .4 Maximum uplift centre / body of roof: 3.6 KPa
  - .5 Maximum uplift perimeter of roof: 4.6 KPa
- .2 Deflection of the roof system is not to exceed 1/180<sup>th</sup> of the span for the specified live loading.
- .3 Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, overstressing of components, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime sky heat loss.

- .1 Temperature Change (Range): -40 deg C, ambient; 20 deg C, material surfaces

#### **1.4 REFERENCES AND STANDARDS**

- .1 Design of cladding system in accordance to the latest edition of:
  - .1 CSA-S136 for the design of Cold Formed Steel Structural Members.
  - .2 CAN/CGSB-93.1, Sheet Aluminum Alloy, Prefinished, Residential.
  - .3 Canadian Sheet Steel Building Institute Standards 10M and 20M.
  - .4 National Building Code of Canada, latest edition.
- .2 Aluminum Association (AA).
  - .1 AA DAF-45, Designation System for Aluminum Finishes - 9th Edition.
  - .2 AA ASM-35, Specifications for Aluminum Sheet Metal Work in Building Construction, Section 5.
- .3 American Society for Testing and Materials International, (ASTM).
  - .1 ASTM A240/A240M, Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
  - .2 ASTM A653/A653M, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  - .3 ASTM A792/A792M, Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot Dip Process.
- .4 Department of Justice Canada.
  - .1 Canadian Environmental Protection Act (CEPA), 1999.
- .5 Health Canada/Workplace Hazardous Materials Information System (WHMIS).
  - .1 Material Safety Data Sheets (MSDS).
- .6 National Research Council Canada (NRC)/Institute for Research in Construction (IRC) - Canadian Construction Materials Centre (CCMC).
  - .1 CCMC, Registry of Product Evaluations.
- .7 Execute work to meet or exceed:
  - .1 National Building Code of Canada 2010 (Latest Edition), including all amendments up to project date.
  - .2 Canadian Construction Safety Code (Latest Edition).
  - .3 Rules and regulations of authorities having jurisdiction.
  - .4 In instances where more than one code, regulation or specification requirement may exist, the more restrictive requirement shall govern. Contractor to provide written notification where clarification is required or conflict in governance exists.



**1.5 Drawings and Specifications**

- .1 Dimensions shown on the design drawings were taken from the as-built documentation made available to the Consultant. Contractor to verify all dimensions prior to start of work on site.
- .2 The drawings shall serve as the working drawings, but absolute accuracy of dimensions is not guaranteed and no claim for extra payment on account of differences between actual and estimate dimensions will be allowed.

**1.6 CONTRACT METHOD**

- .1 Construct Work under stipulated price contract base on the final agree upon unit rates.

**1.7 CONTRACTOR USE OF PREMISES**

- .1 Limit use of premises for Work and for storage.
- .2 Co-ordinate use of premises under direction of Consultant and The Ottawa Hospital.
- .3 Obtain and pay for use of additional storage or work areas needed for operations under this contract.
- .4 Remove or alter existing work to prevent injury or damage to portions of existing work which are to remain.
- .5 Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as directed by Consultant.
- .6 At completion of operations the condition of the existing work is to be equal to or better than that which existed before new work started.

**1.8 OWNER OCCUPANCY**

- .1 Co-operate with Owner in scheduling operations to minimize conflict and to facilitate Owner usage of adjacent occupied garage.

**1.9 ALTERATIONS, ADDITIONS OR REPAIRS TO EXISTING BUILDING**

- .1 Execute work with least possible interference disturbance to garage operations, occupants, public, and normal use of premises. Arrange with Consultant to facilitate execution of Work.

**1.10 EXISTING SERVICES**

- .1 Notify, Consultant and utility companies of intended interruption of services and obtain required permission.
- .2 Where Work involves breaking into or connecting to existing services, give Consultant 48 hours notice for necessary interruption of mechanical or electrical service throughout

course of work. Minimize duration of interruptions. Carry out work at times as directed by governing authorities with minimum disturbance to tenant operations.

- .3 Establish location and extent of service lines in area of work before starting Work. Notify Consultant of findings.
- .4 Submit schedule to and obtain approval from Consultant for any shut-down or closure of active service or facility including power and communications services. Adhere to approved schedule and provide notice to affected parties.
- .5 Provide temporary services when directed by Consultant to maintain critical building and tenant systems.
- .6 Where unknown services are encountered, immediately advise Consultant and confirm findings in writing.
- .7 Protect, relocate or maintain existing active services. When inactive services are encountered, cap off in manner approved by authorities having jurisdiction.
- .8 Record locations of maintained, re-routed, and abandoned service lines.
- .9 Construct barriers in accordance with specifications, drawings, and all applicable regulations.

## **1.11 DOCUMENTS REQUIRED**

- .1 Maintain at job site, one copy each document as follows:
  - .1 Contract 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 Copy of Approved Work Schedule.
  - .10 Health and Safety Plan and Other Safety Related Documents.
  - .11 Other documents as specified.

## **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            ACCESS AND EGRESS**

- .1    Design, construct and maintain temporary "access to" and "egress from" work areas, including stairs, ramps or ladders, independent of finished surfaces and in accordance with relevant municipal, provincial and other regulations.

**1.2            USE OF SITE AND FACILITIES**

- .1    Execute work with least possible interference or disturbance to normal use of premises. Make arrangements with Consultant to facilitate work as stated.
- .2    Maintain existing services to building and provide for personnel and vehicle access.
- .3    Where security is reduced by work provide temporary means to maintain security.
- .4    Contractor is to provide sanitary facilities for use by Contractor's personnel. Keep facilities clean.
- .5    Closures: protect work temporarily until permanent enclosures are completed.

**1.3            ALTERATIONS, ADDITIONS OR REPAIRS TO EXISTING BUILDING**

- .1    Execute work with least possible interference or disturbance to building operations, public and normal use of premises. Arrange with Consultant to facilitate execution of work.
- .2    Design, construct, and maintain temporary protection around areas of work within the existing structure.

**1.4            EXISTING SERVICES**

- .1    Notify, Consultant, Public Works Government Services Canada (PWGSC), and utility companies of intended interruption of services and obtain required permission.
- .2    Where Work involves breaking into or connecting to existing services, give Consultant, and PWGSC 48 hours of notice for necessary interruption of mechanical or electrical service throughout course of work. Keep duration of interruptions to a minimum.
- .3    Provide for personnel, pedestrian and vehicular traffic.
- .4    Construct barriers in accordance with Section 01 56 00 - Temporary Barriers and Enclosures.

**1.5            SPECIAL REQUIREMENTS**

- .1    Ensure that Contractor personnel employed on site become familiar with and obey regulations including safety, fire, traffic and security regulations.

- .2 Keep within limits of work and avenues of ingress and egress.

**1.6 BUILDING SMOKING ENVIRONMENT**

- .1 Comply with smoking restrictions.

**Part 2 Products**

**2.1 NOT USED**

- .1 Not used.

**Part 3 Execution**

**3.1 NOT USED**

- .1 Not used.

**END OF SECTION 01 14 00**

**Part 1            General**

**1.1            REFERENCES**

- .1        Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations.
- .2        Health Canada/Workplace Hazardous Materials Information System (WHMIS).
  - .1        Material Safety Data Sheets (MSDS).
- .3        WORKERS' COMPENSATION ACT, S.N.W.T. 2007, in force April 1, 2008 with latest amendments.
- .4        Northwest Territory & Nunavut Code of Practice, Personal Protective Equipment, Respiratory Protection.

**1.2            SUBMITTALS**

- .1        Make submittals in accordance with Section 01 33 00 - Submittals.
- .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 found in work plan.
- .3        Submit 3 copies of Contractor's authorized representative's work site health and safety inspection reports to Consultant and authority having jurisdiction, if required.
- .4        Submit copies of reports or directions issued by Provincial health and safety inspectors.
- .5        Submit copies of incident and accident reports.
- .6        Submit WHMIS MSDS - Material Safety Data Sheets.
- .7        Consultant will review Contractor's site-specific Health and Safety Plan and provide comments to Contractor within 14 days after receipt of plan. Revise plan as appropriate and resubmit plan to Consultant within 7 days after receipt of comments from Consultant.
- .8        Any 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        On-site Contingency and Emergency Response Plan: address standard operating procedures to be implemented during emergency situations.

**1.3            FILING OF NOTICE**

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

**1.4 SAFETY ASSESSMENT**

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

**1.5 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 The Consultant may respond in writing, where deficiencies or concerns are noted and may request re-submission with correction of deficiencies or concerns.
- .3 Observe and enforce construction safety measures required by Ontario Building Code, The Occupational Health and Safety Act, and Regulations for Construction Projects, Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations - made under the Occupational Safety Act, Workers' Compensation Board and municipal statutes, authorities, and Workplace Hazardous Materials Information System (WHMIS).

**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, and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

**1.7 COMPLIANCE REQUIREMENTS**

- .1 Comply with Ontario Health and Safety Act and Regulations for Construction Projects, R.S.O. 1990, c. 0.1 O. Reg. 213/91.
- .2 Where applicable, the Contractor shall be designated the "Constructor", as defined by Ontario Act.
- .3 Notify the Ontario Ministry of Labour before commencing work on this project as required by the regulations.

**1.8 UNFORSEEN 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 Ontario having jurisdiction and advise Consultant verbally and in writing.
- .2 In event of conflict between any provisions of above authorities, the most stringent provision will apply.

**1.9 HEALTH AND SAFETY CO-ORDINATOR**

- .1 Employ and assign to Work, competent and authorized representative as Health and Safety Co-ordinator. Health and Safety Co-ordinator must:
  - .1 Have minimum 2 years' site-related working experience specific to activities associated with construction health and safety.
  - .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.
  - .5 Be on site during execution of Work and report directly to and be under direction of the site supervisor.

**1.10 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 Ontario jurisdiction, and in consultation with Consultant.

**1.11 CORRECTION OF NON-COMPLIANCE**

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

**1.12 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 01 35 30**

**Part 1            General**

**1.1                REFERENCES**

- .1        Work shall conform with the requirements of the National Building Code and all amendments and all local, Municipal and Territorial building by-laws and ordinances.

**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                HOARDING**

- .1        Provide and maintain all necessary barriers, signs and safety measures as required to complete work. Temporary site enclosures/hoarding shall be installed in accordance with regulations of authorities having jurisdiction. Provide lockable truck entrance gates as directed and conforming to applicable traffic restrictions on adjacent streets. Equip gates with locks and keys.
- .2        Erect and maintain pedestrian walkways including roof and side covers, complete with signs and electrical lighting as required by law.
- .3        Provide barriers around trees and plants designated to remain. Protect from damage by equipment and construction procedures.

**1.4                GUARD RAILS AND BARRICADES**

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

**1.5                ACCESS TO SITE**

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

**1.6                PUBLIC TRAFFIC FLOW**

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

**1.7                FIRE ROUTES**

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

**1.8                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.

**1.9 PROTECTION OF BUILDING FINISHES**

- .1 Provide protection for finished and partially finished building finishes and equipment during performance of Work.
- .2 Provide necessary screens, covers, and hoardings.
- .3 Be responsible for damage incurred due to lack of or improper protection.

**Part 2 Products**

**2.1 NOT USED**

- .1 Not used.

**Part 3 Execution**

**3.1 NOT USED**

- .1 Not used.

**END OF SECTION 01 56 00**

**Part 1            General**

**1.1            PROJECT CLEANLINESS**

- .1      Maintain Work in tidy condition, free from accumulation of waste products and debris, including that caused by other Contractors.
- .2      Remove waste materials from site at regularly scheduled frequencies.
- .3      Provide on-site waste containers for collection of waste materials and debris.
- .4      Dispose of waste materials and debris at designated dumping waste handling locations.
- .5      Clean interior areas prior to start of finishing work, and maintain areas free of dust and other contaminants during finishing operations.
- .6      Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- .7      Provide adequate ventilation during use of volatile or noxious substances.
- .8      Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- .9      Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

**1.2            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 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 frequencies. 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      Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fitments, floors and walls.
- .7      Clean lighting reflectors, lenses, and other lighting surfaces.
- .8      Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds.

- .9 Remove dirt and other disfiguration from exterior surfaces.
- .10 Sweep and wash clean paved areas. Clean equipment and fixtures to sanitary condition; clean or replace filters of mechanical equipment.
- .11 Remove debris and surplus materials from crawl areas and other accessible concealed spaces.

**Part 2 Products**

**2.1 NOT USED**

- .1 Not used.

**Part 3 Execution**

**3.1 NOT USED**

- .1 Not used.

**END OF SECTION 01 74 11**