

- D. Relative Humidity Probe
- 1. Verify concrete slabs are up to service temperature at least 48 hours prior to testing.
- 2. Depth of probes shall be 40 percent on slabs drying from the top only and 20 percent for slabs drying from both sides.
- 3. Probe shall be allowed to acclimate and checked for drift less than 1 percent relative humidity over a 5 minute period.
- 4. Elapsed time for test shall be 48 hours.

- E. Project Conditions: Apply water vapor control system treatment materials within temperature range as recommended by manufacturer, but no higher than 100 degrees F. and no lower than 65 degrees F, and relative humidity of 50% plus or minus 10%. Maintain conditions for 48 hours prior to and throughout duration of test.

- F. Moisture Vapor Control Materials: Cresesal/CS2000; Floor Seal Technology, Inc./VaporSeal 309; Advanced Moisture Control/Vapor-Green FC; Vexcon Chemicals, Inc./MoistureBloc.
- 1. Installer: Manufacturer's trained personnel or factory-trained authorized installer, with minimum five years successful experience installing concrete vapor emission control system being provided.

- G. Water Vapor Emission Control Materials: Provide materials specifically recommended for concrete floor vapor emission control for floor installation where concrete moisture emissions exceed flooring manufacturer recommendations.
- 1. Provide system acceptable to flooring system manufacturers based either on specific product acceptance or on independent test verified performance acceptance.

- H. Preparation for Moisture Control Application: Prepare concrete in accordance with vapor emission control system manufacturer recommendations, prepare control joints and cold joints with manufacturer recommended joint membrane dispersion system.

- I. Application of Moisture Control Materials: Apply water vapor emission control system in accordance with manufacturer's instructions. Comply with manufacturer recommended coverage rates. Allow materials to penetrate and cure, then retest for vapor emission levels.
- 1. Do not apply flooring finish materials until vapor emission has been reduced to specified limits and to limits as directed by flooring finish manufacturers.

- J. Alkalinity Control: Neutralize in accordance with flooring manufacturer recommendations.

- K. RH Probe: Slab at service temperature 48 hours.
- 1. Depth: 40% of slab for one sided drying, 20% for two sided.
- 2. Probe allowed to acclimate and checked for drift not greater than 1% RH over 5 minutes in 48 hour test.

END OF SECTION

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

- A. General: Provide temporary construction facilities and temporary controls as required to conform to applicable authorities and as required to complete Project in accordance with Contract Documents.
- 1. Authorities: Contact governing authorities to establish extent of temporary facilities and temporary controls required by authorities.
- 2. Building Manager: Contact Building Manager to establish extent of temporary facilities and temporary controls required by building management.
- 3. Except as otherwise specified and mutually agreed, Owner will pay, through existing service billing, temporary electricity, gas, and water during construction.
- 4. No smoking is permitted in building.
- B. Life Safety System: Work that creates smoke, dust or other airborne particulates that may activate existing fire alarm devices shall not be performed prior to notifying Owner minimum 48 hours in advance.
- 1. Contractor may be required to pay fee to disarm and restore system activated by Contractor's activities and summons fire department.
- C. Electrical Service: Provide electrical service required for construction operations, with branch wiring and distribution boxes located to allow service and lighting by means of construction-type power cords.
- Provide lighting for construction operations.
- D. Heating and Ventilation: Provide heat and ventilation as required to maintain specified conditions for construction operation, to protect materials and finishes from damage due to temperature and humidity.
- E. Water Service: Provide water service required for construction operations: extend branch piping with outlets located so water is available by use of hoses.
- F. Sanitary Facilities: Provide and maintain required sanitary facilities and enclosures.
- G. Noise, Dust and Pollution Control: Provide materials and equipment necessary to comply with local and landlord requirements for noise, dust and pollution control.
- H. Fire Protection: Maintain on-site fire protection facilities as required by applicable authorities and insurance requirements.
- I. Use of Existing Facilities: Verify availability of existing facilities for construction operations with Owner prior to beginning on-site construction.
- J. Temporary Signs and Notices: Contractor shall post and maintain all signs and notices required by law or ordinance. No advertisements or other Contractor signage will be permitted.
- K. Temporary Closures: Provide temporary weather-tight closures for exterior openings for extended working conditions, for protection for materials, to protect interior materials from dampness, for temporary heating, and to prevent unauthorized entry.
- 1. Provide doors with self-closing hardware and locks.
- L. Temporary Partitions: Provide temporary partitions as required to separate work areas from occupied areas, to prevent penetration of dust and moisture into occupied areas, and to protect damage to existing areas and equipment.
- 1. Construction: Framing and sheet materials with closed joints and sealed edges at intersections of existing surfaces on the Spread Rating in accordance with ASTM.
- 2. Part surfaces: Part surfaces in occupied areas.
- M. Barriers: Provide barriers and signs required by governing authorities.
- N. Cleaning During Construction: Contain accumulation of waste materials to establish recycle or reuse of debris. Clean interior areas prior to finish work, maintain areas free of dust and other contaminants during finishing operation.
- 1. Work access areas shall be maintained in broom clean condition.

END OF SECTION

- O. Cellular Telephone Service: Provide each on-site Project Manager with cellular telephone to allow Owner and Architect on-site contact at all times during construction operations.
- 1. Schedules: Submit schedules of on-site Project Managers with individual cellular telephone numbers to Owner and Architect; maintain schedules and cell phone numbers up-to-date during Project on-site operations.

- P. Storage for Tools, Materials, and Equipment: Limit on-site storage to Project area, provide weather-tight storage, with heat and ventilation for products requiring controlled conditions. Maintain adequate space for organized storage and access.

- Q. Removal: Remove temporary materials, equipment, services, and construction prior to Substantial Completion inspection. Clean and repair damage caused by installation or use of temporary facilities.
- 1. Restore existing facilities used during construction to specified or original condition.

END OF SECTION

SECTION 01 60 00 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

- A. General Product Requirements: Comply with Specifications, referenced standards, and applicable codes and regulations as minimum requirements. Products include material, equipment, and systems.
- 1. Provide new materials except as specifically allowed by Contract Documents.
- 2. Materials to be supplied in quantity within a Specification section shall be by one manufacturer; shall be the same, and shall be interchangeable.
- 3. Provide equipment and systems composed of materials from a single manufacturer except where otherwise recommended by equipment or systems manufacturer or where otherwise indicated in Contract Documents.
- 4. International Standards: Products are based on standards typical for North America but which are commonly found throughout the world. For products not based on standards specified intent is on appearance, performance, and quality of specified products rather than meeting specified standards.
- 5. Asbestos: Provide no materials containing asbestos.
- 6. Do not use materials or equipment for purposes other than for which designed or specified.

- B. Contractor's Options: Comply with following options; requests for substitutions for named manufacturers and products shall comply with requirements specified in Section 01 25 00 - Substitution Procedures.
- 1. Products Identified by Reference Standards: Select product meeting referenced standard for products specified only by reference standard.
- 2. Named Manufacturers and Named Products: Select products of any named manufacturer meeting Specifications for products specified by naming one or more products or manufacturers.
- 3. Substitutions for Named Manufacturers and Named Products: Submit request for substitution for products and for manufacturers not specifically named where products or manufacturers are named in Specifications.
- 4. "Or Equal" Clauses: Submit request for substitution for product or manufacturer not specifically named in Specifications where terms "or equal", "or approved equal", or similar references are made.

- C. Quality Assurance: Comply with industry standards and applicable codes except when more restrictive tolerances or requirements indicate more rigid standards or precise workmanship.
- 1. Perform work by persons qualified to produce workmanship of specified quality.
- 2. Install products straight, true-to-line, and in correct relationship to adjacent materials, with hairline joints, free of rough, sharp and potentially hazardous edges.
- 3. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, and racking. Seismic Anchors: Conform to code requirements where Project is in a seismic zone.

- D. Delivery, Storage, and Handling: Comply with manufacturer recommendations.
- 1. Transport products by methods to avoid product damage, deliver in undamaged condition in manufacturer's unopened containers or packaging.
- 2. Store products with seals and labels intact and legible. Store sensitive products in weather-tight enclosures, maintain within temperature and humidity ranges required by manufacturer's instructions.
- 3. Provide equipment and personnel to handle products by methods to prevent soiling and prevent damage.
- 4. Promptly inspect shipments to assure products comply with requirements, quantities are correct, and products are undamaged.

- E. Manufacturer Instructions: Should job conditions or specified requirements conflict with manufacturer's instructions, consult with Architect for further instructions. Do not proceed with work without clear instructions.

- F. Damage Prevention: Remove from Project products damaged, wet, stained, or products with mold, mildew, or products with special care to prevent adjacent products such as gypsum board and acoustic ceiling tiles from becoming wet.

END OF SECTION

- G. Final Cleaning: Execute final cleaning at Substantial Completion.
- 1. Clean interior and exterior surfaces exposed to view, remove temporary labels, stains and foreign substances; polish transparent and glossy surfaces.
- 2. Clean equipment and fixtures to sanitary condition, clean filters of mechanical equipment; replace filters where cleaning is impractical. Clean ducts. Clean site, keep paved areas.
- 3. Glass Cleaning: Clean glass with wags and water, no other cleaning materials shall be used on glass.
- 4. Remove waste surplus and debris from Project and site; recycle to maximum extent feasible.

- H. Protection: Protect products subject to deterioration with impervious cover. Provide ventilation to avoid condensation and trapping water. Take care to use protective covering and blocking materials that do not soil, stain, or damage materials being protected.
- After installation, provide coverings to protect products from damage from traffic and construction operations, remove when no longer needed.

- I. Protection: Protect products subject to deterioration with impervious cover. Provide ventilation to avoid condensation and trapping water. Take care to use protective covering and blocking materials that do not soil, stain, or damage materials being protected.
- After installation, provide coverings to protect products from damage from traffic and construction operations, remove when no longer needed.

END OF SECTION

SECTION 01 70 00 - EXECUTION REQUIREMENTS

PART 1 - GENERAL

- A. Experienced Installers: Installers to have minimum five years successful experience installing items similar to those required for Project, except for individuals in training under direct supervision of experienced installer.
- B. Acceptance of Conditions: Beginning installation of a product signifies installer has examined substrates, areas, and conditions for compliance with manufacturer requirements for tolerances and other conditions affecting performance.
- C. Field Measurements: Take field measurements as required to fit Work properly, check measurements prior to installing each product.
- 1. Where portions of Work are to fit to other construction verify dimensions of other construction by field measurements before fabrication; allow for cutting and patching in order to avoid delaying Work.

- D. Cutting, Fitting and Patching: Provide as required to complete Work, to make its parts fit together properly, to remove and replace defective and non-conforming work, and to provide routine penetrations of non-structural surfaces.
- 1. Provide new materials for cutting and patching unless otherwise indicated.
- 2. Provide adequate temporary support as necessary to assure structural value or integrity of affected portion of Work.
- 3. Employ same installer or fabricator to perform cutting and patching work as employed for new construction for weather-exposed or moisture resistant elements, and for sight-exposed finished surfaces.
- 4. Fit work tight to pipes, sleeves, ducts, conduit and penetrations through surfaces.
- 5. Refinish entire surfaces as necessary to provide even finish to match adjacent finishes; for continuous surfaces, refinish to nearest intersection; for an assembly, refinish entire unit.

- E. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

- F. Manufacturer's Recommendations: When Work is specified to comply with manufacturer's recommendations or instructions, distribute copies to persons involved and maintain one set in field office.
- 1. Conform to requirements specified in Section 01 30 00 for submittal of recommendations or instructions to Architect; submit to Architect only where specified or where specifically requested; otherwise keep in Field Office.
- 2. Perform work in accordance with details of recommendations and instructions and specified requirements. Should a conflict exist between Specifications and recommendations or instructions consult with Architect.
- 3. Where manufacturer's information notes special recommendations in addition to installation instructions, comply with both recommendations and instructions.

- G. Pre-Installation Meetings: Installers and suppliers are to attend pre-installation meetings scheduled by Contractor.

- H. Installation: Comply with manufacturer written recommendations and installation instructions unless more restrictive requirements are specified. Locate Work and components accurately, in correct alignment and elevation.

- I. Make vertical work plumb and horizontal work level.
- 2. Install components to allow space for maintenance and ease of removal for replacement.

- 3. Install products at time and under conditions to ensure best possible results; maintain conditions required for product performance until Substantial Completion.
- 4. Conduct operations so no part of Work is subject to damaging operations or loading in excess of that expected during normal conditions.
- 5. Securely anchor permanent construction in place, accurately located and aligned with other portions of Work.

- 6. Make joints of uniform width; arrange joints as indicated, for best visual effect where not otherwise indicated; fit exposed connections together to form hairline joints except where otherwise indicated.

- J. Temporary During Construction: Specified in Section 01 50 00 - Temporary Facilities and Controls.

- K. Progress Cleaning: Keep installed areas clean using cleaning materials specifically recommended by manufacturers of product being cleaned; where not otherwise recommended use nontoxic materials that will not damage surfaces.

- 1. Remove debris from concealed spaces before enclosing space.
- 2. Supervise construction operations to assure no part of construction, completed or in progress, is subject to fire, flood, dangerous, damaging, or otherwise deleterious exposure during construction period.

- 3. Final Cleaning: Execute final cleaning at Substantial Completion.
- 1. Clean interior and exterior surfaces exposed to view; remove temporary labels, stains and foreign substances; polish transparent and glossy surfaces.
- 2. Clean equipment and fixtures to sanitary condition, clean filters of mechanical equipment; replace filters where cleaning is impractical. Clean ducts. Clean site, keep paved areas.
- 3. Glass Cleaning: Clean glass with wags and water, no other cleaning materials shall be used on glass.
- 4. Remove waste surplus and debris from Project and site; recycle to maximum extent feasible.

- L. Protection: Protect products subject to deterioration with impervious cover. Provide ventilation to avoid condensation and trapping water. Take care to use protective covering and blocking materials that do not soil, stain, or damage materials being protected.
- After installation, provide coverings to protect products from damage from traffic and construction operations, remove when no longer needed.

- 2. Protect interior materials from water damage; immediately remove wet materials from site to prevent growth of mold and mildew on site.

END OF SECTION

SECTION 01 74 00 - WASTE MANAGEMENT

PART 1 - GENERAL

- A. Waste Management Program: Project requires special waste management program. Effect optimum control of solid wastes. Prevent environmental pollution and damage. Coordinate with requirements in Section 01 35 00 - Environmental Procedures.
- 1. Inert Fill: A permitted facility that accepts inert waste such as asphalt and concrete exclusively.
- 2. Class III Landfill: A landfill that accepts non-hazardous waste such as household, commercial, and industrial waste, including construction, remodeling, repair, and demolition operations.
- 3. Construction and Demolition Waste: Includes solid wastes, such as building materials, packaging, rubbish, debris, and rubble resulting from construction, remodeling, repair, and demolition operations.
- 4. Rubbish: Includes both combustible and noncombustible wastes, such as paper, boxes, glass, crockery, metal and lumber scrap, tin cans, and bones.
- 5. Debris: Includes both combustible and noncombustible wastes, such as leaves and tree trimmings that result from construction or maintenance and repair work.
- 6. Chemical Waste: Includes petroleum products, bituminous materials, salts, acids, alkalis, herbicides, pesticides, organic chemicals and inorganic wastes.
- 7. Sanitary Wastes:

- 1) Garbage: Refuse and scraps resulting from preparation, cooking, distribution, or consumption of food.
- 2) Sewage: Domestic sanitary sewage.

- B. Special Recycling Requirements: Arrange for collection by or delivery to appropriate recycling center or transfer station that accepts construction and demolition waste for purpose of recycling.
- 1. Rock Tern is required waste and recycling vendor. General Contractor to contact Rock Tern for necessary construction roll off dump/returns. Rock Tern will provide store specific recycling requirements for each Regional Area.

- C. Waste Management Goals: Develop waste management plan that results in end-of-Project rates for salvage/recycling of [75] [ ] percent by weight of total project construction and demolition waste from landfill.

- 1. Contractor shall take pro-active and responsible role in management of construction waste, and shall require all subcontractors, vendors, and suppliers to participate in effort.
- 2. Only trash or waste materials that cannot be practically or economically reused or recycled shall be transported to landfill.

- D. Submittal: Prepare and submit a written and graphic Waste Management Program. Indicate procedures to be implemented. Estimate total Project waste to be generated, and estimated cost of disposing of Project waste in landfills.

- 1. Submit summary of solid waste generated by Project with each application for progress payment, on form acceptable to Owner and Architect.
- 2. Include manifests, weight tickets, receipts, and invoices identifying Project and waste delivered to recycling centers, Class III landfills, and inert fills.

- E. Recycling: Implement recycling program that includes separate collection of waste materials suitable for recycling as applicable to Project; recycling program to be applied by Contractors and Subcontractors.

- F. Handling: Keep materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to recycling process.
- 1. Clean materials contaminated prior to placing in collection containers.
- 2. Arrange for collection by or delivery to appropriate recycling center or transfer station that accepts construction and demolition waste for purpose of recycling.

- G. Participate in Re-Use Programs: Rebates, tax credits, and other savings obtained for recycled or re-used materials shall accrue to Contractor.

END OF SECTION

SECTION 01 77 00 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

- A. Substantial Completion: Immediately prior to Substantial Completion, schedule agency review required for Temporary Certificate of Occupancy for "Certificate of Occupancy".

- 1. Pre-Punch List: Contractor shall "Pre-Punch" its own work and work of subcontractors. A "Punch List" shall be issued on this Project.
- a. Contractor shall plan to ensure all tasks are completed correctly and expeditiously first time.
- b. Contractor shall recognize quality issues and correct defective work as soon as possible to minimize interference with other work and impact on Construction Schedule.

- 2. When Contractor considers the Work or a designated portion thereof substantially complete, submit written notice indicating Work is ready for final inspection by Architect and Owner's Representative.

- 3. From information gathered during this inspection, the Architect will prepare a Certificate of Substantial Completion. If the Architect determines there are items to be performed, corrected, or completed before the Project will be accepted, it will attach a "Punch List" listing and describing these items.

- 4. The Architect's "Punch List" work shall be completed within thirty days, unless otherwise mutually agreed, and prior to acceptance of the Project by the Architect and Owner, with following exceptions:

- a. Change Order work approved too late to be completed by Contract completion date.
- b. Warranty work.

- 5. Should the Architect determine that the Work is not substantially complete after the initial inspection, the Architect will advise the Contractor of the construction to be completed or corrected before the Certificate will be issued. Contractor shall remedy deficiencies in the Work and send a second written notice of Substantial Completion to the Architect and Owner's Representative. The Architect and Owner will repeat inspection when requested and assured that the Work is substantially complete.

- 6. By acceptance of Certificate of Substantial Completion, Contractor agrees to pay Owner's actual costs including, but not limited to, charges for engineering, repeat inspections, and administration incurred due to failure to complete punch list within time period provided in Certificate of Substantial Completion.

- 7. Results of the completed or final inspection will form the basis of requirements for final acceptance.

- B. Final Completion: When Work is complete, submit written certification indicating:

- 1. Work has been inspected for compliance with Contract Documents.
- 2. Work has been completed in accordance with Contract Documents and deficiencies listed (in "Punch List") with Certificate of Substantial Completion have been corrected.
- 3. Equipment and systems have been tested in presence of Owner's representative and are operational.
- 4. Work is complete and ready for final inspection.

- C. Special Completion Submittals: In addition to submittals required by Contract, submit following:

- 1. Provide submittals required by governing authorities to governing authorities with copies included in Project Record Documents.
- 2. Submit final statement of accounting giving total adjusted Contract Sum, previous payments, and sum remaining due.

- D. Project Record Documents: Keep documents current; do not permanently conceal any work until required information has been recorded.

- 1. Store one set of reproducible Drawings, one set of Project Manual, and one copy of each Change Order separate from documents used for construction, for use as Project Record Documents.
- 2. Indicate actual work on Drawings; indicate actual products used in Project Manual, including manufacturer, model number and options.
- 3. Update Project Record Documents daily and allow for Architect inspection at least once a month.

- 4. At Contract close-out submit documents with transmittal letter containing date, Project title, Contractor's name and address, list of documents, and signature of Contractor.

- 5. Place one complete set of Record Drawings in a protective plastic tube permanently secured to wall as indicated on Drawings.

- E. Material and Finish Data: Provide data for primary materials and finishes. Submit two sets prior to final inspection, bound in 8-1/2" by 11" three-ring binders with durable plastic covers, clearly identified regarding extent of contents along with PDF files.
- 1. Arrange by Specification division and give names, addresses, and telephone numbers of subcontractors and suppliers. List trade names, model or type numbers, cleaning instructions, and product data.

- F. Operation and Maintenance Data: Provide for electrically operated items, mechanical equipment and controls, and electrical equipment and controls. Submit two sets prior to final inspection, bound in 8-1/2" by 11" three-ring binders with durable plastic covers, clearly identified regarding extent of contents along with PDF files.

- 1. Provide a separate volume for each system, with a table of contents and index tabs for each volume.
- 2. Arrange by Specification division and give names, addresses, and telephone numbers of subcontractors and suppliers. List appropriate design criteria, list of equipment and parts, operating and maintenance instructions, shop drawings, and product data.

- G. Demonstrations: Prior to final inspection, demonstrate operation of each system to Owner.

- H. Additional Closeout Submittals:

- 1. Maintenance material (extra stock) where called for in Specifications.
- 2. Evidence of Payment and Release of Liens.
- 3. Bonds and Service and Maintenance Contracts, as required by the Contract Documents, executed by Contractor, subcontractor, manufacturer, and supplier as applicable.
- 4. Permanent keys in accordance with requirements of Section 08 7100 - Door Hardware.

- 5. Project Job Cards and project final sign-off and approvals by all Project Field Inspectors including, but not limited to, Building, Fire, Plumbing and Electrical representatives.

END OF SECTION

SECTION 02 00 - WARRANTY

PART 1 - GENERAL

- A. Warranties: Comply with requirements and incidental warranties required by Contract Documents.
- 1. Manufacturer's Warranty: Provide manufacturer's standard warranties as specified including inspections and services included or omitted as part of manufacturer's standard warranty.
- 2. Special Warranties: Provide special warranties as required by Specifications sections.

- 3. These warranties shall be in addition to and not a limitation of other rights Owner may have against Contractor under Contract Documents and which may be prescribed by law, regardless of wording of warranty.

- B. Extended Correction Period: Contractor shall correct failure of materials and systems to perform in a manner consistent with their intended use including but not limited to failure of waterproofing and roofing systems to resist penetration from water.

- 1. Standard Correction Period: One year after Substantial Completion or Beneficial Occupancy by Owner except where otherwise noted in Contract Documents; coordinate with General Conditions and Supplementary Conditions.

- a. Items used by Contractor during construction operations shall not be considered substantially completed.
- b. Correction of Work Period begins with Owner occupancy not completion of component.

- 2. Extended Correction Period: Requirements are same as standard correction period but for an extended period of time as indicated in Specifications sections.

- 3. Contractor Responsibilities: Bear cost of correcting failed work and replacing construction damaged by failure of materials and systems to perform in a manner consistent with their intended use during correction period.

- a. Requirements for correction period shall apply to Subcontractors, suppliers, installers, and those responsible for failed work.
- b. Owner and Design Team shall not be responsible for determining degree of responsibility of those involved.

- 4. Owner's Rights under Law: Correction period shall be in addition to and not a limitation of other rights Owner may have against Contractor under Contract Documents and which may be prescribed by law.

- C. Special Warranty and Extended Correction Period Forms: Provide duplicate copies, notarized or on Contractor and Manufacturer's letterhead without conditions or exceptions to requirements specified.

- 1. Assemble documents executed by subcontractors, installers, suppliers, and manufacturers.
- 2. Provide table of contents and assemble in binder with durable plastic cover, clearly identified regarding extent of contents.
- 3. Electronic Format: Submit USB flash drives of warranties, in Microsoft Word.

- D. Manufacturer Warranty Forms: Use manufacturer's standard forms unless otherwise directed in Contract Documents; completed form shall not detract from or confuse interpretations of Contract Documents.

- 1. Manufacturer's authorized representative shall sign manufacturer warranties.
- 2. Subcontractor and installer shall countersign warranty where specified.
- 3. Provide required warranties for waterproofing and roofing systems countersigned by subcontractor and installer.

- 4. Submit final warranties prior to final application for payment. For equipment put into use with Owner's permission during construction, submit within ten days after first operation.

- a. For items of Work delayed materially beyond Date of Substantial Completion, provide updated submittal within ten days after acceptance, listing date of acceptance as start of warranty period.

- 5. Provide information for Owner's personnel regarding proper procedure in case of failure and instances that might affect validity of manufacturer warranty.

- 6. Size: 8-1/2" by 11" for three-ring binder, fold larger sheets to fit.

- E. Warranties and Correction of Work Documents are intended to protect Owner against failure of work and against deficient, defective and faulty materials and workmanship, regardless of sources.

- F. Limitations: Warranties and correction of work requirements are not intended to cover failures that result from:

- 1. Unusual or abnormal phenomena of the elements.
- 2. Owner's misuse, maltreatment or improper maintenance of work.
- 3. Vandalism after substantial completion.
- 4. Insurrection or acts of aggression including war.

- G. Related Damages and Losses: Remove and replace work which is damaged as result of failure, or which must be removed and replaced to provide access for correction of work.

- H. Reinstatement: After correction of work reinstate warranty or extended correction period for corrected work to date of original expiration, but not less than half original period.
- 1. Correction of Work Period: The general correction of work period specified shall not be extended by corrective work except to extent required to correct failure and repair or replace materials damaged by failure.

- I. Replacement Cost: Replace or restore failing items without regard to anticipated useful service lives where part of correction of work period, extended correction of work period, and special warranty period unless otherwise noted.

- J. Rejection of Warranties: Owner reserves right to reject uncoordinated and coincidental product warranties that detract from or confuse interpretations of Contract Documents.

END OF SECTION

DIVISION 02 - EXISTING CONDITIONS

SECTION 02 40 20 - SELECTIVE BUILDING DEMOLITION

PART 1 - GENERAL

- A. Demolition Items: Selectively remove walls, partitions, materials, systems, components, fixtures and equipment as designated and as required for completion of Project as indicated. Cap and identify active utilities.

- Coordination: Do not interfere with adjacent building spaces not in project; maintain safe passage to and from.

- 1. Prevent movement of structural components, provide and place bracing and be responsible for safety and support of structural components. Assume liability for movement, settlement, damage or injury.
- 2. Cease operations and notify Architect immediately if safety of structural components appears to be endangered; take precautions to properly support structures. Do not resume operations until safety is restored.

- C. Delegated Design Services: Provide special engineering to ensure compliance with applicable codes and Contract Documents for support systems.

- D. Photographic Documentation: Provide pre-demolition photographs of existing conditions in areas not requiring selective demolition to indicate conditions prior to selective demolition and conditions after selective demolition to ensure condition of original material has not been modified by selective demolition procedures.

- E. Demolition Plan: Demolition Plan shall detail procedures and sequence for removing improvements to ensure stability of structure at any given time and shall include following:

- 1. Detailed sequence of demolition and removal work, with starting and ending dates for each activity.
- 2. Interruption of utility services.
- 3. Coordination for shutoff, capping, and continuation of utility services.
- 4. Details and locations of protective measures in sufficient numbers to ensure existing construction to remain will not be damaged.
- 5. Review by Owner and Architect of Demolition Plan or field observations performed by Architect will in no way relieve Contractor of full responsibility for Demolition Plan and procedure.

- 6. Contractor's Engineer of Record shall be present at site when structural removal operations are in progress.

- F. Action Submittals: Submit selective demolition operational sequence to ensure Project sequencing is consistent with Owner needs.

- 1. Shop Drawings: Submit for temporary shoring and bracing of the existing Building.

- a. Drawings and calculations shall be signed and sealed by a Civil or Structural Engineer licensed in Project area responsible for their preparation and retained by the Contractor. Submit certification by engineer indicating drawings and calculations are in conformance with Contract Documents and applicable codes and regulations.

- 2. Demolition Plan:

- G. Informational Submittals: Submit permits for transport and disposal of debris, photographic documentation indicating pre-demolition conditions and areas where selective demolition damaged existing conditions.

1.2 QUALITY ASSURANCE

- A. Sustainability Requirements: Comply with environmental procedure requirements including those relative to construction waste management.

PART 2 - PRODUCTS

- 2.1 MATERIALS
- 01/05/18

- A. Debris: Maintain possession of materials being demolished except where noted as a material for reinstallation or a material to be retained by Owner; immediately remove debris from site.
- 1. Immediately remove from site wet materials and materials with water stains, with mold, and with mildew.

- B. Materials for Reinstallation: Carefully remove, store and protect materials indicated to be reinstalled. Contact Owner and Architect prior to beginning demolition to determine extent of other materials that might be suitable for reinstallation.

- C. Owner Retained Materials: Contact Owner prior to beginning demolition to determine extent of materials to be retained. Carefully remove materials indicated to be retained by Owner, deliver and store where directed.

PART 3 - EXECUTION

3.1 EXISTING SERVICES

- A. Disconnect or remove utility services as required for completion of Project; disconnect, stub off, and cap utility service lines not required for new construction.