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**Part 1 GENERAL**

**1.1 SUMMARY**

- .1 Existing doors and windows, windows designed as curtain wall systems, and frames to be removed and disposed in preparation of new door and window installations. Refer to drawings for extent and location of new installations. Adjacent surfaces and sills requiring repair work to be removed and disposed.

**1.2 DEFINITIONS**

- .1 Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- .2 Remove and Salvage: Detach items from existing construction and deliver them to Departmental Representative ready for reuse.
- .3 Remove and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
- .4 Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

**1.3 SUBMITTALS**

- .1 Schedule of Selective Demolition Activities: Indicate the following:
  - .1 Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Facility's building managers and other tenants' on-site operations are uninterrupted.
  - .2 Interruption of utility services. Indicate how long utility services will be interrupted.
  - .3 Coordination for shutoff, capping, and continuation of utility services.
  - .4 Use of elevator and stairs.
  - .5 Locations of proposed dust- and noise-control temporary partitions and means of egress, including for other tenants affected by selective demolition operations.
  - .6 Coordination of Facility's continuing occupancy of portions of existing building and of Facility's partial occupancy of completed Work.
  - .7 Means of protection for items to remain and items in path of waste removal from building.
- .2 Inventory: After selective demolition is complete, submit a list of items that have been removed and salvaged.

**1.4 QUALITY ASSURANCE**

- .1 Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.
- .2 Standards: Comply with ANSI A10.6, NFPA 241, NBCC, and NFCC.

- .3 Predemolition Conference: Conduct conference at Project site to comply with requirements in Section 01 14 10 – Schedule and Management of Work. Review methods and procedures related to selective demolition including, but not limited to, the following:
  - .1 Inspect and discuss condition of construction to be selectively demolished.
  - .2 Review structural load limitations of existing structure.
  - .3 Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
  - .4 Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
  - .5 Review areas where existing construction is to remain and requires protection.

## **1.5 PROJECT CONDITIONS**

- .1 Portions of building immediately adjacent to selective demolition area will be occupied. Conduct selective demolition so Facility's operations will not be disrupted.
  - .1 Comply with requirements specified in Section 01 10 10 – General Instructions.
- .2 Conditions existing at time of inspection for bidding purpose will be maintained by Departmental Representative as far as practical.
- .3 Notify Departmental Representative of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- .4 Hazardous Materials: Asbestos may be present in two soffits under windows.
- .5 Storage or sale of removed items or materials on-site is not permitted.
- .6 Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
  - .1 Maintain fire-protection facilities in service during selective demolition operations.

## **1.6 WARRANTY**

- .1 Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

## **Part 2 PRODUCTS**

### **2.1 PERFORMANCE REQUIREMENTS**

- .1 Regulatory Requirements: Comply with hauling and disposal regulations of authorities having jurisdiction.
- .2 Standards: Comply with NBCC Part 8 *Safety Measures at Construction and Demolition Sites*, ANSI/ASSE A10.6 and NFPA 241.

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**Part 3 EXECUTION**

**3.1 EXAMINATION**

- .1 Verify that utilities have been disconnected and capped if required to complete work.
- .2 Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- .3 Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- .4 When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Departmental Representative.
- .5 Engage a professional engineer to survey condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective demolition operations.

**3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS**

- .1 Existing Services/Systems: Maintain services/systems indicated to remain and protect them against damage during selective demolition operations.
  - .1 Comply with requirements for existing services/systems interruptions specified in Section 01 10 10 – General Instructions.

**3.3 PREPARATION**

- .1 Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, landscaped areas, walkways, and other adjacent occupied and used facilities.
  - .1 Comply with requirements for access and protection specified in Section 01 50 00 - Temporary Facilities and Controls.
- .2 Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities.
  - .1 Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
  - .2 Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
  - .3 Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
  - .4 Cover and protect furniture, furnishings, and equipment that have not been removed.
  - .5 Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Division 01 Section *Temporary Facilities and Controls*.
- .3 Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

- .1 Strengthen or add new supports when required during progress of selective demolition.

### **3.4 SELECTIVE DEMOLITION, GENERAL**

- .1 To limit risk of exposure, the demolition must be phased and limited in area to suit that which can be resealed within a reasonable amount of time. Contractor to have enough temporary coverings on site to cover exposed areas of work.
- .2 General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
  - .1 Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
  - .2 Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
  - .3 Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
  - .4 Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
  - .5 Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
  - .6 Dispose of demolished items and materials promptly. Comply with requirements in Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
- .3 There is a high probability of water infiltration/leaks during this project. Particular during the demo/stripping of the existing window components. Contractor to have all necessary materials on site to quickly respond when leaks are encountered.
- .4 Contractor is responsible for addressing all new leaks caused during this window replacement project. This includes quickly responding to leaks ( 24/7 ) by protecting bldg. components from leaks, clean-up/replacement of water damaged items.
- .5 Contractor is responsible for all repairs to lawns, grounds or portions of the building damaged by equipment during the execution of the Work.
- .6 Contractor to advise Departmental Representative immediately if demolition reveals any existing conditions that need to be addressed before proceeding with new installations.
- .7 Do not demolish building elements beyond what is indicated on Drawings without Departmental Representatives approval.

### **3.5 DISPOSAL OF DEMOLISHED MATERIALS**

- .1 General: Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Departmental Representative 's property, remove demolished materials from Project site and legally dispose of them in an approved landfill.
  - .1 Do not allow demolished materials to accumulate on-site.

- .2 Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- .3 Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
- .4 Comply with requirements specified in Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
- .2 Burning: Do not burn demolished materials.
- .3 Disposal: Transport demolished materials off Facility's property and legally dispose of them.

### **3.6 CLEANING**

- .1 Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

**END OF SECTION**

