# SECTION 01730 - CUTTING AND PATCHING

## PART 1 - GENERAL

### 1.1 REQUIREMENTS INCLUDED

A. Requirements and limitations for cutting and patching of Work.

### 1.2 RELATED REQUIREMENTS

A. Section 01120 - MULTIPLE CONTRACT SUMMARRY: Work by Owner or by separate Contractors.

B. Section 01630 – PRODUCT SUBSTITUTION PROCEDURES

C. Individual Specifications Sections: Cutting and patching incidental to work of that Section.

### 1.3 DESCRIPTION

A. Execute cutting, fitting, and patching, including attendance excavation and backfill, required to complete the Work and to:

1. Remove existing services, lines and equipment and the installation of new services, lines and equipment, except as shown otherwise.

2. Make its several parts fit together properly.

3. Uncover portions of the Work to provide for installation of ill-timed work.

4. Remove and replace defective work.

5. Remove and replace work not conforming to requirements of Contract Documents.

6. Remove samples of installed work when specified for testing.

7. Provide routine penetrations of non-structural surfaces for installation of electrical services and conduit.

### 1.4 SUBMITTALS

A. Submit written request to Architect through the Construction Manager in advance of executing any cutting or alteration which in the opinion of the Construction Manager affects:

1. The structural value or integrity of any element of the Project.

2. The integrity or effectiveness of weather-exposed or moisture-resistant elements or systems.

3. The efficiency, operational life, maintenance or safety of operational elements.

4. The visual qualities of sight-exposed elements.

5. Work of Owner or separate Contractor.

B. Include in request:

1. Identification of the Project.
2. Location and description of affected work.
3. The necessity for cutting, alteration or excavation.
4. Description of the proposed work:

a. The scope of cutting, patching, alteration, or excavation.
b. The trades who will execute the work.
c. Products proposed to be used.
d. The extent of refinishing to be done.

5. Alternatives to cutting and patching.
6. Written permission of affected separate Contractor.
7. Date and time work will be executed.

C. Obtain approval prior to proceeding.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Comply with specifications and standards for each specific product involved. Use materials identical to existing materials.

B. For any change in materials, submit request for substitution in accordance with Section 01600.

PART 3 - EXECUTION

3.1 INSPECTION

A. Inspect existing conditions of the Project, including elements subject to damage or to movement during cutting and patching. Do not cut and patch operating or safety related elements that will result in reduction of capacity to perform.

B. After uncovering work, inspect the conditions affecting the installation of Products, or performance of the work.

C. Report unsatisfactory or questionable conditions to the Construction Manager in writing; do not proceed with the work until the Construction Manager has provided further instructions.

D. Beginning of cutting or patching means acceptance of existing conditions.

3.2 PREPARATION

A. Provide adequate temporary support as deemed necessary by the Construction Manger to assure the structural value or integrity of the affected portion of the Work.

B. Provide devices and methods to protect other portions of the Project from damage.

C. Provide protection from the elements for that portion of the Project which may be exposed by cutting and patching work, and maintain excavations free from water.

3.3 PERFORMANCE

A. Execute cutting and demolition by methods which will prevent damage to other work, and will provide proper surfaces to receive patching and finishing.

B. Execute excavating and backfilling by methods which will prevent settlement of damage to other work.

C. Execute fitting and adjustment of products to provide a finished installation to comply with specified products, functions, tolerances, and finishes.

D. Restore work which has been cut or removed; install new products to provide completed work in accordance with requirements of Contract Documents.

1. All excessive patching and refinishing shall be performed by applicable trades, with costs borne by contractor requiring openings.

E. Fit work airtight to pipes, sleeves, ducts, conduit and other penetrations through surfaces.

F. Refinish entire surfaces as necessary to provide an even finish to match adjacent finishes.

1. For continuous surfaces, refinish to nearest intersection.
2. For an assembly, refinish the entire unit.

3.4 COORDINATION FOR CHASES/OPENING AND INSERTS

A. Contractors or other trades requiring chases or openings shall furnish the Construction Manager with a detailed drawing or sketch showing the size and

location of each and every chase or opening required, if this information is not transmitted before the walls, partitions, floors, etc. are built, it will be done at the expense of the Contractor or trade who failed to provide the necessary information.

B. Each trade shall be responsible for maintaining supervisory personnel on the job to assist in coordination and laying out of required chases or openings while the work is being performed by the responsible prime contractor.

C. Unless otherwise noted or indicated, each Contractor or trade shall furnish and install ALL sleeves, thimbles and inserts necessary for the installation of his work at the proper time as not to delay the progress of the project or impede the work of any other Contractor or trade.

D. Coordination drawings shall be required for Specification Divisions 15 and 16, which shall constitute agreement by the Contractors performing this work that these shall be the basic plan for installation. These Contractors agree that they will make only minor adjustments to this plan of installation without formal revision of the coordination drawings. In all cases, they will keep the space requirements of the other Contractors as limitations on their own installations.

END OF SECTION