SECTION 01045
CUTTING AND PATCHING

PART 1 - GENERAL

1.1 DESCRIPTION:

A. Work Included: This section establishes general requirements, in addition to those indicated in the General Conditions of the Contract for Construction, pertaining to cutting, fitting, and patching of the work required to:

1. Make the several parts fit properly.
2. Uncover work to provide for installation, inspection, or both, of ill-timed work.
3. Remove and replace work not conforming to requirements of the Contract Documents.
4. Patch new construction into existing construction.

B. Related Work:

1. In addition to requirements specified, upon the Architect's request, uncover work to provide for inspection of covered work, and remove samples of installed materials for testing.
2. Do not cut or alter work performed under separate contract without the Architect's written permission.

1.2 QUALITY ASSURANCE:

A. Perform all cutting and patching in strict accordance with pertinent requirements of the Specifications and, in the event no such requirements are determined, in conformance with the Architect's written direction.

1. Use skilled workmen to perform all cutting and patching work.
2. Use methods least likely to damage existing surfaces and materials to remain, while providing proper surfaces to receive installation of repair, patching, and/or new work.

B. Visual Quality:
1. Do not cut and patch work exposed to public view, and the exterior and/or interior of the building in a manner that will result in an unacceptable appearance as determined by the Architect.

2. Do not cut and patch work in a manner that will result in obvious appearance that cutting and patching work was done.

3. When cutting existing structural concrete, do to extend saw cuts beyond the corners of the required opening on either side of the opening.

1.3 EXISTING CONSTRUCTION:

A. Where cutting and patching of existing construction is required; prior to start of work, inform Owner of existing construction to be disturbed. Owner will determine if elements of existing construction contain asbestos. Do not proceed with work until after Owner has examined areas to be disturbed. Refer to Exhibit A, Project Pre-Inspection for Possible Presence of Asbestos for additional information concerning the possible presence of materials containing asbestos.

1.4 SUBMITTALS:

A. Submit proposed cutting and patching procedures in writing for the following categories of work prior to proceeding with this work:

1. Cutting new openings in existing structural concrete walls, parapets, and suspended slabs.

2. Cutting new openings in existing roofs and roofing materials.

B. Submittals shall comply with Section 01300.

PART 2 - PRODUCTS

2.1 MATERIALS:

A. Except as otherwise indicated in pertinent sections of these specifications, or as directed by the Architect, use materials which are identical to existing materials in workmanship, appearance, and performance.

B. If identical materials are not available, match existing as closely as possible, especially existing visual characteristics.

PART 3 - EXECUTION

3.1 INSPECTION:
A. Before proceeding, inspect existing conditions, including elements subject to movement or damage during cutting, excavating, backfilling, and patching.

B. After uncovering the work, inspect conditions affecting installation of new work.

C. If uncovered conditions are not as anticipated or if existing construction is not as indicated on the Drawings, immediately notify the Consultant for further instructions.

3.2 PREPARATION:

A. Provide shoring, bracing, and support as required to maintain structured integrity of the project.

B. Take all necessary action required to protect adjacent existing surfaces from damage due to the work of this section.

C. Take all precautions necessary to protect existing surfaces and materials, new work, and the work of this section from damage due to adverse weather conditions.

D. Provide temporary support of work to cut and adjacent work to prevent failure or damage due to the work of this section.

E. Properly prepare substrate surfaces exposed during cutting as required to receive the work of this or other sections of these specifications in strict compliance with manufacturer's recommendations and these specifications.

3.3 EXECUTION:

A. Perform all required cutting and patching as required or reasonably implied under pertinent sections of these specifications.

B. Perform cutting and demolition by methods which will prevent damage to other portions of the work and will provide proper finished installation complying with the specified tolerances and finishes.

3.4 PERFORMANCE:

A. Execute cutting and demolition by methods which will prevent damage to other work, and will provide proper surfaces to receive installation of repairs and new work. Sawcut and otherwise isolate areas to be demolished.

B. Repair or otherwise rebuild and/or construct all surfaces affected by cutting and demolition. Execute fitting and adjustment of products to provide totally finished installation to comply with tolerances, finishes, and profiles of adjacent surfaces, whether new or existing.
C. Restore work which has been cut or exposed by demolition; install new construction in compliance with specifications for type of new work to be done or as required to match existing adjacent surfaces. In no case shall any exposed existing surface be left in a raw, marred, or unfinished surface.

D. Refinish entire surfaces as necessary to provide an even finish.

1. Continuous Surfaces: To nearest intersections.


END OF SECTION 01045