

DIVISION 1 - GENERAL REQUIREMENTS
Section 01045 - Cutting and Patching

1. GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other pertinent sections, apply to this section.

1.02 SUMMARY

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

1.03 RELATED SECTIONS (but not limited to)

- A. Section 01300 - Submittals.
- B. Section 01600 - Materials and Equipment.
- C. Individual Product Specification Sections:
 - 1. Cutting and patching incidental to work of the section.
 - 2. Advance notification to other sections of openings required in work of those sections.
- D. Section 01700 – Project Closeout.

1.04 SUBMITTALS

- A. Submit written request in advance of cutting or alteration, which affects:
 - 1. Structural integrity of any element of project.
 - 2. Integrity of weather exposed or moisture resistant element.
 - 3. Efficiency, maintenance, or safety of any operational element.
 - 4. Visual qualities of sight exposed elements.
 - 5. Work of Owner or separate contractor.
- B. Include in request:
 - 1. Identification of project.
 - 2. Location and description of affected work.
 - 3. Necessity for cutting or alteration.
 - 4. Description of proposed work and products to be used.
 - 5. Alternatives to cutting and patching.
 - 6. Effect on work of owner or separate contractor.
 - 7. Written permission of affected separate contractor.
 - 8. Date and time work will be executed.

2. PRODUCTS

- A. Requirements: Comply with provisions of the NFPA and City of Chicago Fire Prevention Bureau of Electrical Inspection (Municipal Code of Chicago Fire Prevention) for components. Provide Underwriters Laboratories listed and labeled products where applicable.

3. EXECUTION

3.01 EXAMINATION

- A. Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching.
- B. After uncovering existing work, assess conditions affecting performance of work.
- C. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

- A. Provide temporary supports to ensure structural integrity of the work. Provide devices and methods to protect other portions of Project from damage.
- B. Provide protection from elements for areas, which may be exposed by uncovering work.

3.03 CUTTING

- A. Execute cutting and fitting to complete the work.
- B. Uncover work to install improperly sequenced work.
- C. Remove and replace defective or non-conforming work.
- D. Remove samples of installed work for testing when requested.
- E. Provide openings in the work for penetration of mechanical and electrical work.
- F. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight-exposed surfaces.
- G. Cut rigid materials using masonry saw or core drill. Pneumatic tools are not allowed without prior approval.

3.04 PATCHING

- A. Execute patching to complement adjacent work.
- B. Fit products together to integrate with other work.
- C. Execute work by methods to avoid damage to other work, and which will provide appropriate surfaces to receive patching and finishing.
- D. Employ original installer to perform patching for weather exposed and moisture resistant elements, and sight-exposed surfaces.
- E. Restore work with new products in accordance with the requirements of Contract Documents.

- F. Fit work, air tight, to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- G. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire resistant material to full thickness of the penetrated element.
- H. Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
- I. **The Communications and Electrical Contractor will identify on As-Builds prints and Cad drawings all penetrations. As-Builds prints will be available for substantial and final inspections with Office of Technology Service Project Manager or CPS Operations Project Manager.**

3.05 PROVISIONS

- A. Requirements: Comply with provisions of the NFPA and City of Chicago Fire Prevention Bureau of Electrical Inspection (Municipal Code of Chicago Fire Prevention) for components and installation of the general work. Provide Underwriters Laboratories listed and labeled products where applicable.
- B. Contractors and subcontractors will meet all City, State and Federal Codes. The Contractor or subcontractors that are actually performing the work must be licensed by the City of Chicago. This license must be current before any electrical and/or communication work is bid by the Contractor or subcontractor performing the actual work

Questions regarding City of Chicago Fire Codes may be directed to:

Fire Protection Bureau	312-746-5336
1101 South California	312-746-5337
Chicago, IL	

3.06 PERFORMANCE REQUIREMENTS FOR COMPLETED WORK

- A. General: The Contract Documents indicate the intended occupancy and utilization of the buildings and their individual systems and facilities. Compliance with governing regulations is intended and required for the work and for the Owner's occupancy and utilization. In addition to the requirement that every element of the work comply with applicable requirements of the Contract Documents, it is also required that the work as a whole comply with the general building performance requirements of the Owner.
- B. **All work must be in compliance with OTS Infrastructure Standards, State and City Codes, and Contract Documents in which the most stringent requirement will be followed. If a question occurs regarding the correct procedure, do not proceed, request for clarification before proceeding. Any assumptions made on behalf of the Contractor(s) or Sub Contractors installing or deletion of work pertaining to contracted work will result in the cost being incurred by the Contractor(s) and/or Sub Contractors.**

END Section 01045