

READ THIS FIRST

This Project Spec Document may need additional modifications to suit your project. It is recommended that you proofread each section, paying attention to any “Notes” boxes such as this one--you should remove these “Notes” sections as you go. Also, do a search for all bracket characters “ [] “ as they are used to show you areas containing options or project specific details (you can use Microsoft Word’s Find feature {Ctrl-F} to jump to an open bracket “ [“ character quickly). Again, these bracket characters should be removed.

It is important that every paragraph be numbered to allow for easy referencing. If you use the document’s built in styles and formatting your outline should be fine (turn on the formatting toolbar by going to View > Toolbars > Formatting). Most paragraphs will use the style “Numbered Material” and can be promoted (Shift) or demoted (Shift-Tab).

You should not have to manually enter extra spaces, carriage returns or outline characters such as A, B, C, or 1.01, 1.02; the formatting will do this for you. The entire document is 11 pt. Arial. If you paste items in, you may need to reapply the “Numbered Material” format.

Review applicability of this section with the Construction Manager or Engineer.

PART 1 GENERAL

1.01 DESCRIPTION

A. Definition

1. Cutting and patching refers to the modification, removal or repair of nominally completed or previously existing work in order to accommodate construction of the Work in this Contract. Cutting and Patching may include uncovering other work for access, inspection, obtain samples for testing or for similar purposes and is defined to include Cutting and Patching during the fabricating, erecting, and installing process for individual units of work. Drilling to install fasteners and similar operations are not included in this section. The work in this section does not include regulated materials work.

B. General Work

1. The Contractor represents that it has carefully reviewed all demolition, removal, modification, cutting, patching, and re-installation or replacement requirements of the Work and has included in its bid the cost for all such requirements described in this section.
2. Any existing, materials, structures, facility components or finishes that require cutting and or patching to complete the Work shall be repaired or reinstalled to equal or better condition as the adjacent finishes, to ensure a smooth and seamless transition, color matching or similar finish. Remove and replace work judged by the Engineer to be visually unsatisfactory at no additional cost.
3. The extent of the repair or reinstallation of the existing work shall be limited to areas affected by the Work. Costs to repair damage created by the Contractor during inspections, temporary removal or in the course of completing the Work shall be the burden of the Contractor.

C. Coordination with Subcontractors

1. The Contractor represents that the Subcontractors have been advised to review all demolition, removal, modification, cutting, patching, and re-installation or replacement requirements of the Work and that the Subcontractor has included in their bid the cost for all such requirements described in this section. The Contractor shall coordinate any cutting and patching described herein. If the Subcontractor refuses or fails to adhere to this section, the Contractor shall not be relieved of the requirements of this section.
2. The Contractor shall be responsible for cutting, patching, drilling, disconnecting electrical/mechanical services, disconnecting and capping utility lines at present locations, connections to new locations and modification in piping runs and electrical devices, including control access and signal, or such other work as may be required to complete the Work.
3. The Contractor shall remove and replace any and all temporary mechanical, electrical, access control and signal items installed to complete the Work whether shown on the drawings or not and shall restore all original systems or functions to equal or better condition existing prior to the Work.

1.02 ITEMS TO BE CUT AND PATCHED

A. The items anticipated to be patched and repaired, removed and reinstalled as part of this Work may include but is not limited to:

1. Utility components; i.e. water, steam, condensate, waste lines, HVAC supply and return lines, etc.
2. Concrete slabs
3. Concrete beams
4. Fireproofing
5. Metal trim
6. Roofing
7. Exterior finishes
8. GWB wall, surrounds and soffit surfaces
9. Ceiling systems; i.e. acoustical, gypsum board, metal, lay-in, etc.
10. Terrazzo Flooring
11. Painted finishes
12. Carpet, plywood deck, and framing
13. Plastic laminate wall surface systems
14. Signage/Signage bands
15. Mechanical Systems
16. Fire protection devices; i.e. pull boxes, alarms, sprinkler systems, fire extinguisher cabinets, etc.

17. Electrical components; i.e. distribution panels, junction boxes, lighting, conduit, etc.
18. Communication Systems
19. Security Systems

1.03 QUALITY CONTROL

A. Requirements for Structural Work:

1. Notify the Engineer immediately if work concerning structural integrity is involved.

B. Operational and Safety Limitations:

1. Do not cut and patch operational elements and safety-related components in a manner resulting in a reduction of capacities to perform in a manner intended or resulting in decreased operational life, increased maintenance, or decreased safety.

PART 2 PRODUCT

2.01 MATERIALS

- A. Except as otherwise indicated or approved by the Engineer, provide materials for cutting and patching that will result in equal or better quality than the work being cut and patched in terms of performance characteristics, including visual effect where applicable. Comply with the requirements and use materials identical, including texture and color, with original where feasible and where recognized that satisfactory results can be produced thereby. Re-install undamaged materials temporarily removed in their original locations where feasible or indicated unless noted otherwise.
1. Primary Products: Those required for original installation.
 2. Product Substitution: For any proposed change in materials, submit Request for Substitution.

PART 3 EXECUTION

3.01 GENERAL

- A. Execute cutting, fitting, and patching, to complete the Work and to:
1. Gain access in order to install components associated with this work.
 2. Fit the several parts together to integrate with other work.
 3. Uncover work to install ill-timed work.
 4. Remove and replace defective and non-conforming work.
 5. Remove samples of installed work for testing.
 6. Provide openings in elements of work for penetrations of mechanical, electrical, signal and access control work.

3.02 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 and patching means acceptance of existing conditions.

3.03 PREPARATION

- A. Temporary support: Provide adequate temporary support for work to be cut to prevent failure or deleterious movement of materials to remain. Do not endanger other work.
- B. Protection from weather: In accordance with Section 01 50 00 - Temporary Facilities and Controls, provide protection from elements for areas that may be exposed by uncovering work.

3.04 CUTTING AND PATCHING/REMOVAL AND RE-INSTALLATION

- A. General - Employ skilled tradespeople to perform cutting and patching. If possible, employ original installer or fabricator to perform cutting and patching for visually exposed surfaces.
 - 1. Cut work by methods least likely to damage work to be retained and work adjoining. Review proposed procedure with the original installer where possible and comply with their recommendations.
 - 2. Cut rigid materials using saws, grinding tools or core drill. Pneumatic or percussion tools not allowed without prior approval of the Engineer.
 - 3. Use drilled-in inserts only where shown or approved by the Engineer.
 - 4. Core drill inside corners of cuts in terrazzo and concrete to avoid over cuts. Do not use power-driven impact tools to finish cuts.
 - 5. Fit Work airtight to pipes, sleeves, ducts, conduits, structural elements and other penetrations through surfaces.
 - 6. At penetrations of fire-rated material provide proper thickness of the construction element to maintain the required fire rating.
- B. Condition removed materials to be reinstalled.
 - 1. Clean, straighten and refinish materials to match existing surroundings.
 - 2. Store and protect materials against damage as a result of weather, vandalism or neglect.
- C. Patching
 - 1. Execute patching to complement adjacent work. Inspect and test patched areas to demonstrate integrity of the work.
 - 2. Fit products together to integrate with other work.
 - 3. Restore work with new products in accordance with requirements of Contract Documents.
 - 4. Restore exposed finishes of patched areas and, where necessary extend finish restoration onto retained work adjoining in a manner that will eliminate evidence of patching.
 - 5. If a portion of a painted surface is patched and repaired, repaint entire surface to nearest natural break in wall surface, or as directed by Engineer, or as delineated on drawings for repaint.

DIVISION 1 - GENERAL REQUIREMENTS

Section 01 73 29 - Cutting and Patching/Removal and Re-Installation

6. Where new Work abuts or aligns with existing, perform a smooth and even transition. Patch Work to match existing adjacent Work in texture and appearance.
 7. When finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division and make recommendation to Engineer.
 8. Where wall systems (metal studs, gypsum wall boards, insulation, etc.) are removed for Work, reinstall wall system using new material of same size, quality, and quantity to match existing. Paint all exposed surfaces to match existing.
 9. Where the fireproofing materials are removed for work, reinstall fireproofing materials to match existing conditions and current code requirements.
- D. Where a change of plane of 1/4 inch or more occurs, submit recommendation for providing a smooth transition for Engineer's review; do no work until acceptance by the Engineer.

3.05 CUTTING AND PATCHING FOR WORK BY SUBCONTRACTORS

- A. Cutting and patching for all subcontracted work including but not limited to mechanical, electrical, plumbing and communication Work shall be included in the cost for such Work identified in the technical specification sections.

Paragraph below for "Pest Management – Force Account" is optional for non-STIA Terminal projects – edit or delete if not needed.

3.06 PEST MANAGEMENT – FORCE ACCOUNT

- A. In addition to Pest Management requirements in 01 74 00 – Cleaning, when directed by the Engineer, provide additional sealing of existing work and/or new Work to leave no gaps which pests may utilize for access.

PART 4 MEASUREMENT AND PAYMENT

4.01 GENERAL

- A. No separate measurement or payment will be made for the Cutting and Patching/Removal and Re-Installation Work required by this section. The cost for this portion of the Work will be considered incidental to, and included in the payments made for the applicable bid items in the Schedule of Unit Prices.
- B. Measurement and Payment for "Pest Management – Force Account", as stated in the Schedule of Unit Prices, will be on a Force Account basis in accordance with Document 00 70 00 – General Conditions and shall be full compensation to complete only Pest Management measures that are not part of the Contract work, not covered under existing bid items and are at the specific direction of the Engineer.

OR if No "Pest Management – Force Account" Bid Item use: (otherwise delete)

4.01 GENERAL

- A. No separate measurement or payment will be made for the Work required by this section. The costs for this portion of the Work will be considered incidental to, and included in the payments made for the applicable bid items in the [Schedule of Unit Prices] [Lump Sum price] bid for the Project.

End of Section