PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 and 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes fixed banquette seating with the following:
   1. Upholstered built-in benches with seat and back padding and fabric.

B. Related Requirements:
   1. Section 018113 “Sustainable Design Requirements.”
   2. Section "Architectural Woodwork" for wood framing, wood paneling, planks and trim supporting upholstered seating.

1.3 SUBMITTALS

A. Product Data:
   1. For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for seating.
   2. Submit manufacturer's Product Data for applied topical fabric treatments such as fire retardant treatments and soil repellent treatments.

B. LEED Submittals: Refer to Section 018113 “Sustainable Design Requirements” for additional submittal requirements.

C. Samples: For each type of exposed finish required, prepared on Samples of size indicated below:
   1. Upholstery Fabric: minimum 12 by 12-inches section of fabric from dye lot to be used for the Work, with specified treatments applied. Show complete pattern repeat. Mark top and face of fabric. Illustrate finished edge of fabric.

D. Maintenance Data: For seating to include in maintenance manuals. Include the following:
   1. Methods for maintaining upholstery fabric.
   2. Precautions for cleaning materials and methods that could be detrimental to seating finishes and performance.

1.4 QUALITY ASSURANCE

A. Source Limitations: Obtain each type of seating required, including accessories and mounting components, from single source.
   1. Upholstery Fabric: Obtain fabric of a single dye lot for each color and pattern of fabric required.

B. Upholstered seating shall meet current air quality management requirements complying with California Green Building Standards Code mandatory measures as determined by local authorities.

C. Fire-Test-Response Characteristics of Upholstery Furniture:
   1. Fabric: Class A, NFPA 260, tested according to California Technical Bulletin 117.

2. Padding: Comply with California Technical Bulletin 117.
3. Full-Scale Fire Test: Comply with California Technical Bulletin 133.
4. ASTM D 3597-02.

D. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
1. Build mockups for the following types of seating including fabric, finishes, and accessories:
a. Size: minimum one seating unit at least 48-inches wide and 48-inches in length, including attachment to substrates.
2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

1.5 WARRANTY

A. Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of seating that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
a. Wear and deterioration of fabric and stitching beyond normal use.
2. Warranty Period: per the General Conditions.

1.6 EXTRA MATERIALS

A. Furnish extra materials from the same production run that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Provide fabric from the same color lot as the installed fabric, in factory sealed packaging. Provide the greater of 5 percent of each installed color and style of fabric or one full box or roll of each color and style.

PART 2 - PRODUCTS

2.1 MATERIALS AND FINISHES

A. Fabrics: Fabric listed below with flame-retardant treatment and stain repellent finish.
1. Per Finish Schedule on the Drawings.
2. Or Equal.

B. Upholstery Padding / Seat Cushions:
1. Flexible, cellular, molded or slab polyurethane foam.
2. 1.8 lbs/cu ft density polyurethane foam.
3. Wrapped with 1-1/4 oz. polyester fiber and placed into a zippered tick bag and then placed into the zippered fabric cover.
4. Seat backs: 1.5 oz. density foam and covered with polyester fiber.

C. LEED Materials: Refer to Section 018113 “Sustainable Design Requirements” for additional material requirements.

2.2 SHOP FABRICATION

A. Fabricator:
   1. Preferred Upholstery fabricator:
      a. Martin Brattrud, Gardena, CA, 323-770-4171. Contact Allan Stratford.
      b. Or Equal.

B. Cushions shall be sewn to shapes indicated, in manner consistent with high use commercial applications.

C. Seams shall not be placed on a heavy-wear location of the furniture (such as on the centerline of the upper surface of the arms). Any double needle seam stitching shall be tape reinforced.

D. Sewn Seam Stitching of Non-Woven Fabrics:
   1. Use a #11 leather needle
   2. Use a 1/2-inch seam allowance
   3. Use a "seam" or "binder" tape in the sewn seam.
   4. Use a folded over "C" top stitch.

E. Square fabric warp and filling (woof and weft) threads and trim to appropriate size before cutting. Cut fabrics on thread. Sew in straight lines.

F. Wood Parts:
   1. Suitable hardwood species. All woods used shall be kiln dried to a moisture content of 6 - 10 percent before machining.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install seating in locations indicated and fastened securely to substrates according to manufacturer's written installation instructions.
   1. Use installation methods and fasteners that produce seating assemblies with individual chairs capable of supporting an evenly distributed 600-lb static load without failure or other conditions that might impair the chair's usefulness.

B. Install level, vertical and square; attachment joints shall be hairline, without gaps or spaces.

C. Maximum variation of gaps between any two units: ±1/16 inch.

3.2 ADJUSTING, CLEANING AND PROTECTION

A. Fit, align, and adjust installed units level and plumb.

B. Replace upholstery fabric damaged during installation.

C. Perform final detailed cleaning, ready for use by Owner.

D. Provide temporary protection for installed Work. Remove protection prior to occupancy.

END OF SECTION