

**GOODWILL INDUSTRIES**  
**Interior Renovations**

**75 Washington Avenue**  
**Portland, Maine**

**Outline Specification**

August 23, 2013

GTA# 070313

Prepared for:

**Goodwill Industries of Northern New England**  
**353 Cumberland Avenue**  
**Portland, Maine**

Prepared by:

Gawron Turgeon Architects  
29 Black Point Road  
Scarborough, Maine 04074  
207-883-6307

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## OUTLINE SPECIFICATION

### DIVISION 1 – GENERAL REQUIREMENTS

#### 010100 – GENERAL

1. General Contractor responsibilities:
  - a. Project management, supervision, safety program.
  - b. Field layout, shop drawings, record and as-built drawings, quality control.
  - c. General liability, workman's compensation insurance.
  - d. Payment and performance bonds, (builder's risk insurance), building permits, testing services.
  - e. Temporary service (electrical, water, sanitary, power, heat, fire protection, enclosures/barriers).
  - f. Snow fencing of foundations and site fencing at project, dust and water control.
  - g. Record drawings and jobsite meeting minutes.
2. Owner, AMG Holdings, LLC/Tenant, Goodwill Industries Responsibilities:
  - a. Site plan approvals and regulatory review; reasonable, unimpeded access to the site.
  - b. Timely decision making and desired night time security; and establishment of project baseline.
  - c. Desired testing services (and builder's risk insurance).
  - d. Exterior sign approvals and regulatory review.
  - e. Tenant shall supply all residential kitchen appliances.

#### 01027 – APPLICATIONS FOR PAYMENT

1. Submit applications for payment on AIA form G702, with breakdown of trades on continuation sheet G703. Submit partial lien waivers with each application in a form acceptable to the Owner. Submit final lien waiver

#### 01035 – MODIFICATION PROCEDURES

1. Modifications to the scope, time or cost of the Contract shall only be handled by Change orders approved by the Owner, Architect and Contractor.
2. Minor changes in the work, interpretations and supplemental instructions not affecting construction time or cost may be handled by Field Orders issued by the Architect.

#### 01080 – COMPLIANCE CODES AND GUIDELINES

1. All project scope is designed and specified to be built in compliance with the following codes and guidelines:
  - IBC International Building Code, current state adopted version  
(earlier versions if applicable)
  - ASHRAE/ESNA 90, I Maine Commercial Energy Code, current adopted version

NFPA 101 Life Safety Code, current state adopted version  
IBC, International Building Code  
DHHS, Department of Health and Human Services  
ANSI 117.1, current adopted version, local and state  
All other applicable local, state, and federal codes, regulations, statutes and ordinances

#### 01090 – CODES AND STANDARDS

1. Perform the work in strict compliance with product manufacturer's instructions, best trade practices and applicable codes and industry standards. Codes and standards which are incorporated by reference shall have the full force as if bound herein, and include, but are not limited to, publications of the following:

American Concrete Institute (ACI)  
American Institute of Steel construction, Inc. (AISC)  
American Institute of Timber Construction (AITC)  
American National Standards Institute (ANSI)  
American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc. (ASHRAE)  
American Society of Mechanical Engineers (ASME)  
American Society for Testing and Materials (ASTM)  
American Wood Preserver Association (AWPA)  
Council of American Building Officials (CABO)  
Consumer Product Safety commission (CSPC)  
International Code Council (ICC)  
Maine Department of Human Services, Div. of Health Engineering, Internal Plumbing Rules  
Maine Human Rights Commission  
Maine office of State Fire Marshal  
National Electric Manufacturers Association (NEMA)  
National Fire Protection Association (NFIPA)  
National Forest Products Association (Fop)  
Truss Plate Institute (TPI)  
Underwriters Laboratories, Inc. (UL)  
US Department of Commerce, National Bureau of Standards (NBS)  
US Department of Justice, Americans with Disabilities (ADA)  
United States Green Building Council (USGBC)  
Local, State and Federal codes and regulations.

#### 01230 – ALTERNATES

1. Contractor to provide construction costs:
  - a. Refer to schedule for description

#### 01300 – SUBMITTALS

1. Submit shop drawings, product data and samples of major components of the work to the Architect for review. Review will only be for conformance with the intent of the contract documents. Contractor shall be solely responsible for all field dimensions, coordination,

compliance with the contract documents and means, methods and techniques of construction.

01500 – TEMPORARY FACILITIES

1. Provide temporary site office, telephone, electrical power, lighting, storage trailer, sanitary facilities, tools and equipment, shoring and bracing, waste disposal, snow removal, erosion control and protective devices as required for the proper execution of the work.
2. Provide protection for existing facilities to remain, and protection for adjacent properties and the public.

## SECTION 012200 - UNIT PRICES

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Requirements:
  - 1. Section 012600 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
  - 2. Section 014000 "Quality Requirements" for general testing and inspecting requirements.

#### 1.3 DEFINITIONS

- A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased. The add price shall be the same as the deduct price.

#### 1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, hauling, disposal, installation, compaction, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

### PART 2 - PRODUCTS (Not Used)

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PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

1. Unit Price No. 1: Duplex Wall Outlet
2. Unit Price No. 2: Data/Tele Box & Pull String

END OF SECTION 012200



SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. This Section includes administrative and procedural requirements for alternates.

1.03 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.04 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.
- E. Hold pricing for 90 days from date of bid to allow Owner time for project accounting. Alternates not accepted before Contract signing may be added by Change Order later.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 SCHEDULE OF ALTERNATES

- A. Alternate No. 1: Tele/Data Cabling  
CM to provide a price to install new category 6 cable to new tele/data ports. Existing cables and ports shall remain as is. CM to coordinate drop locations to be coordinated with Goodwill Server Room and IT closets. Work shall be performed by a certified contractor.

- B. Alternate No. 2: Glazed Aluminum Curtain Wall  
Refer to drawings and specifications for extent of alternate scope. Work shall include the following components, associated labor, materials and warranties.

Remove existing exterior masonry wall, install new structural headers, required flashings, joint sealants and opening details to match existing adjacent window openings.

Refer to specification Section 08911, 2.1 A for product information.

Refer to drawings for interior finishes in area of curtain wall installation.

Refer to specification Section 07920 for Joint Sealants

New brick masonry and mortar shall match existing materials for texture, color and design.

Refer to specification Section 048100 Unit Masonry

- C. Alternate No. 3: New Window Blinds at New Exterior Windows  
Provide new window blinds at new windows. Blinds shall be perforated vertical and match existing blinds.

Refer to Alternate No. 2 for new window information.

END OF SECTION 01230

## SECTION 017310 - CUTTING AND PATCHING

### PART 1 - GENERAL

#### 1.01 RELATED DOCUMENTS

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

#### 1.02 SUMMARY

- A. This Section includes procedural requirements for cutting and patching.
  - 1. For correction of installed work.
  - 2. For repairs due to testing.
  - 3. For removal of existing conditions and repairs to allow for new construction.
- B. Related Sections include the following:
  - 1. Division 1 Section "Selective Demolition and Alterations" for demolition of selected portions of the building and additional patching requirements.
  - 2. Divisions 2 through 16 Sections for specific requirements and limitations applicable to cutting and patching individual parts of the Work.
  - 3. Division 4 Section Masonry
  - 4. Division 5 Section Structural Steel
  - 5. Division 7 Section "Through-Penetration Firestop Systems" for patching fire-rated construction.
  - 6. Division 7 Section "Fire-Resistive Joint Systems" for patching fire-rated construction.
  - 7. Division 9 Section Gypsum Board Assemblies, Ceramic Tile, Acoustical Ceiling and Flooring.

#### 1.03 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other Work.
- B. Patching: Fitting and repair work required to restore surfaces to original conditions after installation of other Work.

#### 1.04 SUBMITTALS

- A. Cutting and Patching Proposal: Submit a proposal describing procedures at least 10 days before the time cutting and patching will be performed, requesting approval to proceed. Include the following information:
  - 1. Structural Elements: Where cutting and patching involve adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with original structure.
  - 2. Architect's Approval: Obtain approval of cutting and patching proposal before cutting and patching. Approval does not waive right to later require removal and replacement of unsatisfactory work.

## 1.05 QUALITY ASSURANCE

- A. Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.
- B. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that result in increased maintenance or decreased operational life or safety. Operating elements include the following:
  - 1. Primary operational systems and equipment.
  - 2. Air or smoke barriers.
  - 3. Fire-suppression systems.
  - 4. Mechanical systems piping and ducts.
  - 5. Control systems.
  - 6. Communication systems.
  - 7. Conveying systems.
  - 8. Electrical wiring systems.
- C. Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that could change their load-carrying capacity, which results in reducing their capacity to perform as intended, or that result in increased maintenance or decreased operational life or safety. Miscellaneous elements include the following:
  - 1. Water, moisture, or vapor barriers.
  - 2. Membranes and flashings.
  - 3. Exterior curtain-wall construction
  - 4. Equipment supports
  - 5. Piping, ductwork, vessels, and equipment.
  - 6. Noise- and vibration-control elements and systems.
- D. Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
- E. Cutting and Patching Conference: Before proceeding, meet at Project site with parties involved in cutting and patching, including mechanical and electrical trades. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

## 1.06 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void existing warranties.

## PART 2 - PRODUCTS

### 2.01 MATERIALS

- A. General: Comply with requirements specified in other Sections.

- B. In-Place Materials: Use materials identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
  - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will match the visual and functional performance of in-place materials.
  - 2. New window units and installation details of head, jamb and sill shall match existing system.

### PART 3 - EXECUTION

#### 3.01 EXAMINATION

- A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.
  - 1. Compatibility: Before patching, verify compatibility with and suitability of substrates, including compatibility with in-place finishes or primers.
  - 2. Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

#### 3.02 PREPARATION

- A. Temporary Support: Provide temporary support of Work to be cut.
- B. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- C. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

#### 3.03 PERFORMANCE

- A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
  - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
  - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
  - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
  - 3. Concrete: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
  - 4. Excavating and Backfilling: Comply with requirements in applicable Division 2 Sections where required by cutting and patching operations.
  - 5. Proceed with patching after construction operations requiring cutting are complete.

- C. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections.
1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate integrity of installation.
  2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
    - a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
    - b. Restore damaged pipe covering to its original condition.
  3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
    - a. Where patching occurs in a painted surface, apply primer and intermediate paint coats over the patch and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
  4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
  5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition.
- D. Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

END OF SECTION

SECTION 02060 - SELECTIVE DEMOLITION AND ALTERATIONS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. This section includes the following:
  - 1. Demolition and removal of selected portions of a building or structure.
  - 2. Salvage of existing items to be reused or recycled.
  - 3. Coordination with Owner for renovations adjacent to existing occupied spaces.
  - 4. Temporary ventilation.
  - 5. Repair procedures for selective demolition operations.
- B. Related sections including the following:
  - 1. Section 00004 Equipment Supplied By Building Owner.
  - 2. Division 1 Section "Temporary Facilities and Controls" for temporary construction and environmental-protection measures for selection demolition operations.
  - 3. Division 1 Section "Cutting and Patching" for additional cutting and patching procedures for selective demolition operations.
  - 4. Division 4 Section 058100 – Unit Masonry Assembly.
  - 5. Division 15 Sections for additional requirements regarding demolishing, cutting, patching, or relocating mechanical items.
  - 6. Division 16 Sections for additional requirements regarding demolishing, cutting, patching, or relocating electrical items

1.03 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and re-installed.
- B. Remove and Salvage: Detach items from existing construction and deliver them to Owner ready for reuse.
- C. Removal and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
- D. Existing to Remain: Existing items from existing construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.04 MATERIAL OWNERSHIP

- A. Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, demolished materials shall become Contractor's property and shall be removed from Project site.

1.05 SUBMITTALS

- A. General: Submit in accordance with Section 01330.
- B. Qualification Data: For firms and persons specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.
- C. Proposed Dust-Control and Noise-Control Measures: Submit statement or drawing that indicates the measures proposed for use, proposed locations, and proposed time frame for their operation. Identify options if proposed measures are later determined to be inadequate.
- D. Schedule of Selective Demolition Activities. Indicate the following:
  - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
  - 2. Interruption of utility services. Indicate how long utility services will be interrupted.
  - 3. Coordination for shut-off, capping, and continuation of utility services.
  - 4. Use of stairs and elevator.
  - 5. Locations of proposed dust- and noise-control temporary partitions and means of egress.
  - 6. Coordination of Owner's continuing occupancy of portions of existing building.
  - 7. Means of protection for items to remain and items in the path of waste removal from building.
- E. Inventories:
  - 1. Inventory of items to be removed by Owner.
  - 2. After selective demolition is complete, submit a list of items that have been removed and salvaged.
- F. Pre-demolition Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by selective demolition operations. Submit before Work begins.

1.06 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this project.
- B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that is similar to those indicated for this Project in material, design and extent.
- C. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- D. Standards: Comply with ANSI A10.6 and NFPA 241.
- E. Pre-demolition Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures



related to selective demolition including, but not limited to, the following:

1. Inspect and discuss condition of construction to be selectively demolished.
2. Review structural load limitations of existing structure.
3. Review and finalized selective demolition schedule and verify availability of materials, demolition personnel, equipment and facilities needed to make progress and avoid delays.
4. Review shoring sequencing for maintaining existing structure without damage during removal of existing floor systems and structural components.
5. Review methods of protecting remaining surfaces in weather tight conditions without damage during selective demolition operations and ensuing time frame until exterior envelope can be made permanently weather tight.
6. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
7. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.
8. Provide 72-hour minimum advance notice to participants prior to convening pre-demolition conference.

#### 1.07 PROJECT CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Maintain access to existing walkways, and other adjacent occupied or used facilities.
  1. Do not close or obstruct walkways, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
- C. Owner assumes no responsibility for condition of areas to be selectively demolished.
  1. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- D. Notify Architect in writing of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- E. Hazardous Materials: It is not expected that hazardous materials are encountered, do not disturb; immediately notify Architect and Owner.
- F. Storage or sale of removed items or materials on-site will not be permitted.
- G. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
  1. Maintain fire-protection facilities in service during selective demolition operations.

#### 1.08 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

### PART 2 - PRODUCTS

#### 2.01 REPAIR MATERIALS

- A. Use repair materials identical to existing materials.
  - 1. If identical materials are unavailable or cannot be used for exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible.
  - 2. Use a material whose installed performance equals or surpasses that of existing materials.

### PART 3 - EXECUTION

#### 3.01 EXAMINATION

- A. Verify that utilities have been disconnected and capped.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- C. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to the Architect.
- E. Engage a professional engineer to survey condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective demolition operations.
  - 1. Engineer shall develop shoring and underpinning plans and procedures for removal of structural components indicated to be removed.
- F. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

#### 3.02 UTILITY SERVICES

- A. Existing Utilities: Maintain services indicated to remain and protect them against damage during selective demolition operations. Coordinate with Owner the utility shut down periods and the time periods Gorham House will receive power from the emergency generator. General contractor to provide all temporary power services to keep power to Gorham House at all times.
- B. Utility Requirements: Locate, identify, disconnect, and seal or cap off indicated utilities serving areas to be selectively demolished.
  - 1. Owner will arrange to shut-off indicated utilities when requested by Contractor.
  - 2. Where utility services are required to be removed, relocated, or abandoned, before proceeding with selective demolition provide temporary utilities that bypass area of selective demolition and that maintain continuity of service to other parts of building.
  - 3. Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit after bypassing.
  - 4. Existing piping, conduit, and panels to remain that are supported by walls and ceilings to be demolished, shall be temporarily re-supported to the existing structure until permanent construction is in place.
- C. Utility Requirements: Refer to Division 15 and 16 Sections for shutting off, disconnecting,

removing and sealing or capping utilities. Do not start selective demolition work until utility disconnecting and sealing have been completed and verified in writing.

### 3.03 PREPARATION

- A. **Site Access and Temporary Controls:** Conduct selective demolition and debris removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
1. Do not close or obstruct streets, walks, walkways, or other adjacent occupied or used facilities outside limits of Work, as defined on Drawings, without permission from Owner and authorities having jurisdiction. Provide alternative routes around closed or obstructed traffic ways if required by Owner or governing regulations.
  2. Erect construction fence with entry gates; coordinate location with Architect and Owner.
  3. Protect existing site improvements, appurtenances, and landscaping to remain.
  4. Erect a plainly visible fence around drip line of individual trees or around perimeter drip line of groups of trees to remain.
- B. **Furniture Removal:** The Owner will remove contents and moveable furniture from spaces to be fully renovated. Contractor shall move furniture out of the way and cover furniture, shelving and equipment with 4-mil polyethylene to protect from dust and dirt in rooms where limited use of space is required, such as fire alarm work, electrical or sprinkler work. Prevent workers from standing on furniture and from using furniture to support staging planks, ladders and other equipment. Contractor is responsible for damage to furniture caused by workers.
1. If the Contractor fails to keep workers from using the furniture to stand on for access to the work, the Owner shall serve notice to the Contractor, and the Contractor shall at the request of Owner, remove the furniture from the work space, store the furniture, and return furniture back to the original locations upon completion of the work at no additional cost to Owner.
- C. **Temporary Facilities:** Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
  2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
  3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
- D. **Temporary Enclosures:** Provide temporary enclosures for protection of existing building and construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weather tight enclosure for building exterior.
1. Where heating or cooling is needed and permanent enclosure is not complete, provide insulated temporary enclosures. Coordinate enclosure with ventilating and material drying or curing requirements to avoid dangerous conditions and effects.
- E. **Temporary Partitions:** Erect and maintain dustproof partitions and temporary enclosures to limit dust and dirt migration and to separate areas from fumes and noise.
1. All temporary construction partitions shall be extended from the floor through the suspended ceiling, to the underside of the floor deck above.

2. Construct temporary dust partitions out of metal studs and **1/2-inch thick** fire-retardant plywood on one side and painted **5/8-inch thick** gypsum wallboard on Owner occupied side of partition. Seal all gaps and around perimeter with duct tape. Temporary doors for partitions shall be **3-foot by 7-foot** solid core wood or insulated steel doors with standard mortise hardware, closers, weather stripping and keyed locksets to match Owner's. Insulate partition to provide noise protection to occupied areas. Hang vinyl around area while stud and plywood temporary partition is being constructed.
3. All temporary dust partitions in place less than 1 day may be Cirvico fire-retardant vinyl and adequately supported sealed with duct tape.
4. Provide wall-off mats both inside and outside the construction area at doors entering Owner occupied areas.
5. Insulate and weatherproof temporary partitions exposed to exterior and exposed to unheated spaces.
6. All temporary partitions shall remain in place until all cleaning within the work area has been completed.

F. Temporary Ventilation: Provision shall be made during construction to ventilate the work by mechanical ventilation.

1. All spaces shall be mechanically ventilated to protect occupants from applications and installation of odor causing materials. The area where material is being used shall be isolated from the new or existing ventilation system.
2. Negative pressure shall be maintained within construction areas inside the existing building to prevent the spread of dust and odors. Route ductwork from the negative-air fans to the exterior of the building, filtering the air in the duct prior to being discharged, by means of a standard furnace air filter. The negative air pressure system shall be activated prior to the commencement of work each day, and remain operating until one-half hour after the stop of work for each day.
3. No work creating fumes shall be done in occupied areas of existing building while it is occupied by Owner. Ventilation shall be maintained for a period of 24 hours or until release of fumes has subsided, whichever is longer.
4. The permanent ventilation system shall be fully operational and run full time for a minimum of 2 weeks before date established for Substantial Completion. Cost of operation shall be included as part of the work.

G. Temporary Shoring: Provide and maintain interior and exterior shoring, bracing, or structural support to preserve stability and prevent movement, settlement, or collapse of construction to remain; and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

1. Strengthen or add new supports when required during progress of selective demolition.

### 3.04 POLLUTION CONTROLS

A. Dust Control: Use water mist, temporary enclosures, and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations.

1. Do not use water when it may damage existing construction or create hazardous or objectionable conditions, such as ice, flooding, and pollution.
2. All air-handling ducts shall be shut down or covered whenever possible during demolition activities. This covering or shutdown of air-handling ducts shall be approved by Owner prior to modifying existing conditions.

- B. Disposal: Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
  - 1. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
- C. Cleaning: Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations begin.

### 3.05 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
  - 1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
  - 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
  - 3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
  - 4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations.
  - 5. Maintain adequate ventilation when using cutting torches.
  - 6. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
  - 7. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
  - 8. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
  - 9. Break up and remove concrete slabs on grade and foundations where indicated.
  - 10. Dispose of demolished items and materials promptly.
  - 11. Remove and replace or reinstall existing construction as necessary to permit installation and alternation of mechanical and electrical work. Coordinate all removals with appropriate trades.
- B. Filling Below-Grade Areas: Completely fill below-grade areas and voids resulting from demolition of buildings and pavements with soil materials according to requirements specified in Division 2 Section "Earthwork."
- C. Existing Facilities: Comply with Owner's requirements for using and protecting stairs, walkways, building entries, and other building facilities during selective demolition operations.
- D. Removed and Salvaged Items: Comply with the following:

1. Clean salvaged items.
  2. Pack or crate items after cleaning. Identify contents of containers.
  3. Store items in a secure area until delivery to Owner.
  4. Transport items to Owner's designated storage area.
- E. Removed and Reinstalled Items: Comply with the following:
1. Clean and repair items to functional condition adequate for intended reuse. Paint equipment to match new equipment.
  2. Pack or crate items after cleaning and repairing. Identify contents of containers.
  3. Protect items from damage during transport and storage.
  4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
  5. Install equipment provided by building Owner.
- F. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.
- G. Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals, using power-driven saw, then remove concrete between saw cuts.
- H. Resilient Floor Coverings: Remove floor coverings and adhesive according to recommendations in RFCI-WP and its Addendum.
1. Remove residual adhesive and prepare substrate for new floor coverings by one of the methods recommended by RFCI.
- 3.07 PATCHING AND REPAIRS
- A. General: Promptly repair damage to adjacent construction caused by selective demolition operations.
- B. Patching: Comply with Division 1 Section "Cutting and Patching."
- C. Work Exposed to View: Do not cut or patch in a manner that would, in the Architect's opinion, result in a lessening of the building's aesthetic qualities. Generally, cut from exposed side into concealed spaces to avoid unnecessary damage to finish. Do not cut and patch in a manner that would result in substantial visual evidence of cut and patch work. Restore exposed finishes of patched areas in a manner, which eliminates evidence of patching and refinishing. For continuous surfaces, extend refinish to nearest intersection, with a neat transition to adjacent surfaces.
- D. Repairs: Where repairs to existing surfaces are required, patch to produce surfaces suitable for new materials.
- E. Finishes: Restore exposed finishes of patched areas and extend restoration into adjoining construction in a manner that eliminates evidence of patching and refinishing.
- F. Floors and Walls: Where walls or partitions that are demolished extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish color, texture, and appearance. Remove existing floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
1. Patch with durable seams that are as invisible as possible. Provide materials and comply

with installation requirements specified in other Sections of these Specifications.

2. Where patching occurs in a painted surface, apply primer and intermediate paint coats over patch and apply final paint coat over entire unbroken surface containing patch. Provide additional coats until patch blends with adjacent surfaces.

- G. Ceilings: Patch, repair, or re-hang existing ceilings as necessary to provide an even plane surface of uniform appearance.

### 3.08 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site.
  1. Do not allow demolished materials to accumulate on site.
  2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
  3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

### 3.09 CLEANING

- A. Sweep the building broom clean on completion of selective demolition operation.
- B. Change filters on air-handling equipment exposed to demolition operations on completion of selective demolition operations.

END OF SECTION 02060

SECTION 04810 - UNIT MASONRY ASSEMBLIES

1.01 SUMMARY

- A. Masonry Construction:
  - 1. Match existing masonry veneer wall over masonry back-up.

1.02 MATERIALS

- A. Brick Veneer: Reuse existing brick in exposed areas.
- B. Concrete Masonry Units (CMUs):
  - 1. Units: Made with integral water repellent, integral colorant, solid with no cores.
- C. Masonry Joint Reinforcement:
  - 1. Exterior Walls: Hot-dip galvanized, carbon steel.
- D. Ties and Anchors: Hot dipped galvanized steel.
  - 1. Adjustable masonry-veneer anchors: Screw attached, Heckman Posi-tie.
- E. Embedded Flashing:
  - 1. Concealed (Flexible) Flashing: Rubberized asphalt.
    - a. Used with LCC drip edges.
- F. Weep/Vent Holes: Cellular plastic.
- G. Cavity drainage material at base of walls and over lintels.
- H. Mortar: Natural color; Portland cement and lime mix lime.
  - 1. Masonry cement and mortar cement not allowed.
    - a. Match existing.

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1.03 INSTALLATION

- A. Bond Pattern: Running bond match existing.
- B. Clear masonry waste recycled as fill material.

END OF SECTION



## SECTION 054000 - COLD-FORMED METAL FRAMING

### 1.1 PERFORMANCE REQUIREMENTS

- A. Structural Performance:
  - 1. Design for loads indicated on the structural drawings.
  - 2. Deflection Limits:  $1/360$  of the span for wall members supporting siding.
- B. Engineering design of cold-formed metal framing by Contractor.
- C. Design Standards: AISI S100 and AISI S200.

### 1.2 SUBMITTALS

- A. Shop Drawings: Submit Shop drawings for review by Architect and Engineer.
- B. Calculation: Submit calculations for review.

### 1.3 MATERIALS

- A. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, metallic coated.
- B. Exterior Non-Load-Bearing Wall Framing: Standard C-shaped, punched steel studs and U-shaped, unpunched track. Depth as indicated on Drawings
  - 1. Minimum Steel Thickness: 0.0428 inch.
  - 2. Vertical deflection clips, Single deflection track, or Double deflection track as required.
- C. Roof Rafter Framing: Standard C-shaped steel sections as indicated on the drawings..
- D. Ceiling Joist Framing: Standard C-shaped, unpunched steel sections.
  - 1. Minimum Steel Thickness: 0.0329 inch.
- E. Framing Accessories: Supplementary framing, bracing, bridging, and solid blocking, web stiffeners, anchor clips, end clips, foundation clips, gusset plates stud kickers, and knee braces, and hole reinforcing plates.

### 1.4 INSTALLATION

- A. Fasten framing by welding or screw fastening.
  - 1. Exterior Non-Load-Bearing Wall Stud Spacing: 16 inches.
  - 2. Joist Spacing: As indicated

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1.5 FIELD QUALITY CONTROL

- A. Testing: By Owner-engaged agency.

END OF SECTION 054000

SECTION 055000 - METAL FABRICATIONS

1.01 SUMMARY

- A. Lintels.
- B. Miscellaneous metal framing and supports.
- C. Loose metal plates and shapes.
- D. Miscellaneous fabricated metal items.
- E. Metal Stair Items
- F. Steel Brackets

1.02 PRODUCTS

- A. Materials: Steel plates, shapes, bars, stair pans and risers.
- B. Miscellaneous Framing and Supports:
  - 1. Steel framing and supports for countertops and applications where framing and supports are not specified in other sections.
  - 2. Galvanize for exterior locations.
  - 3. Refer to drawing for details
- C. Loose bearing and leveling plates.
- D. Steel weld plates and angles not specified in other sections, for casting into concrete.

END OF SECTION

## SECTION 061000 - ROUGH CARPENTRY

### 1.1 SUMMARY

- A. Wood blocking and nailers for window openings, window treatment, handrails, toilet accessories, equipment, countertops, shelving, cabinetry.
- B. Plywood backing panels.

### 1.2 MATERIALS

- A. Wood-Preservative-Treated Materials:
  - 1. Preservative Chemicals: CA-B.
  - 2. Application: Roof blocking
- B. Dimension Lumber:
  - 1. Non-Load-Bearing: Standard, Stud, or No. 3 grade and any of the following species:
    - a. Eastern softwoods, NELMA.
    - b. Northern species, NLGA.
- C. Sheathing:
  - 1. Plywood Sheathing: 5/8 inch CDX, Exposure 1 APA Rated Sheathing, fir species plywood.
- D. Plywood backing panels for telephone and electrical equipment.
- E. Fasteners: Hot-dip galvanized steel where exposed to weather, in ground contact, or in area of high relative humidity. Stainless steel for all attachments to pressure treated lumber.

### 1.3 INSTALLATION

- A. Refer to drawings and requirements of design/build mechanical and electrical engineers for Rough Carpentry items.

END OF SECTION

SECTION 06200 - FINISH CARPENTRY

1.1 SUMMARY

- A. Stock cabinets
- B. Countertops
- C. Window sills
- D. Storage shelving
- E. Countertop
- F. Wood Plank Flooring
- G. Interior Windows

1.2 MATERIALS

- A. Interior Standing and Running Trim: Stock shapes.
  - 1. Lumber Trim for Opaque Finish (Painted): Poplar.
    - a. Window Frame and Casing
    - b. ½ wall caps
- B. Stock Cabinets: Armstrong cabinetry; style: Mayfair Thermofoil, Color: [White](#)
  - 1. Base cabinets and wall cabinets
  - 2. Hardware: Armstrong, Casual Pulls, Style: BP53013-910
- C. Countertops: Custom plastic-laminate countertops: AWI custom grade; edge treatment same as horizontal surfaces; plywood or moisture resistant particleboard substrate for countertops with sinks. Refer to finish schedule
- D. Fasteners for Exterior Finish Carpentry: Stainless steel.
- E. Closet Shelving
  - 1. Grade: Custom
  - 2. Closet Shelving: Thermoset decorative panel with PVC edge banding on heavy duty, steel shelf standards and double prong, heavy duty steel bracket, white.

1.3 WOOD PLANK FLOORING

- 1. New Wood Plank Flooring to match existing, refer to drawings for location.
  - a. Floor finish to match existing floor finish.

1.4 EXTERIOR WINDOW TRIM

- A. Window Sills: Fabricate to AWI Custom Grade, from solid hardwood, in profile indicated for opaque finish.
- B. Window Aprons: Fabricate to AWI Custom Grade, from solid hardwood, in profile indicated for opaque finish.
  - 1. Hardwood Trim Species: White Birch/Poplar.

1.5. SOLID SURFACE COUNTERTOPS

- A. General: Provide units with smooth surfaces in uniform plane free of defects.
- B. Solid Surface Fabrication: Provide units polished on all exposed surfaces, sawn on concealed surfaces, and having the following configurations:
  - 1. Nominal Thickness: Provide thickness indicated, but no less than indicated on the drawings. Gage backs to provide units of identical thickness.
  - 2. Edge Detail: As indicated.
  - 3. Seams: Fabricate tops without seams to the maximum extent possible. Where required, seams shall be hairline and sealant filled.
  - 4. color: As indicated on finish legend.
  - 5. Provide integral solid surface sink.

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END OF SECTION

SECTION 064000 – ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.01 SUMMARY

- A. Custom Reception Desk.

1.02 QUALITY ASSURANCE

- A. Quality Standard: AWI.
- B. Quality Standard for Installation: AWI, for same grade as woodwork.

1.03 MATERIALS

- A. Wood Species and Cut for Transparent Finish: Premium Grade Maple and Pennsylvania Cherry (little to no sap).
- B. Wood Species for Opaque Finish: Any closed-grain hardwood.
- C. Cabinet Hardware:
  - 1. Hinges: Frameless concealed.
  - 2. Hardware:
    - a. Match existing desk
  - 3. Locks: Per Drawing.
    - a. All cabinetry except the lounge.
  - 4. Exposed Hardware Finishes:
    - a. Match existing desk.
- D. Interior Standing and Running Trim for Opaque Finish:
  - 1. Grade: Custom.
  - 2. Wood Species: Any closed-grain hardwood.
- E. Stock and Custom Shape Trim and Moldings for Transparent Finish: Premium grade Maple and Pennsylvania Cherry.
- F. Shop Finishing:
  - 1. Quality Standard: AWI for same grade as woodwork.
  - 2. Extent: Custom wood millwork.
  - 3. Transparent Finish:
    - a. Grade: Custom.
    - b. Type: Conversion varnish over stain.

END OF SECTION 064000

SECTION 071310 - SELF-ADHERING SHEET WATERPROOFING

1.1 SUMMARY

- A. Rubberized-asphalt sheet waterproofing

1.2 WARRANTY

- A. Rubberized-Asphalt Sheet: 60 mils (1.5mm) thick, self-adhering.
- B. Protection Course: Extruded-polystyrene board insulation drainage panels.

1.3 INSTALLATION

- A. Rubberized-Asphalt Sheet: One-ply application.

END OF SECTION



SECTION 072100 - BUILDING INSULATION

1.1 SUMMARY

A. Applications:

1. Concealed and loose-fill building insulation.
2. Rigid board insulation materials
3. Spray applied foam

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1.2 MATERIALS

A. Insulation:

1. At exterior walls, provide 3" (R 13) Min. Closed cell spray foam insulation in 6" stud cavity with 2" (R 7.5) rigid insulation at outside of studs on Densglas sheathing.
2. Provide 3-1/2" fiberglass sound insulation in common walls, bathroom and bedroom walls as indicated.
3. Provide 3 1/2" Thermafiber SAFB at demising partitions as indicated.
4. Provide 2" (R-10) minimum extruded polystyrene insulation at foundation walls beneath slabs on grade, as indicated: Dow "Styrofoam" or equal.
5. Provide 6 mil polyethylene vapor barrier at top floor ceilings, beneath slabs on grade.

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B. Vapor Retarders: Polyethylene, 6 mil.

1.3 INSTALLATION

A. Wall Insulation:

1. At electrical boxes, provide vapor barrier pans sealed to vapor retarder.
2. At interior partitions and exterior walls, seal around wires passing through top and bottom plates with acoustical sealant to stop air infiltration.
3. Sound attenuation blankets at all new interior walls.

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B. At interior partitions, seal around wires passing through top and bottom plates with acoustical sealant to stop air infiltration.

END OF SECTION 07210

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<#>At ceiling electrical boxes, provide vapor barrier pans sealed to vapor retarder, or seal fixture with foam-in-place insulation before installation of the attic insulation.¶

SECTION 076200 - SHEET METAL FLASHING AND TRIM

1.1 SUMMARY

- A. Formed Flashing and Trim:
  - 1. Flat trim at window.
  - 2. Counterflashing.
  - 3. Flashing receivers.

1.2 QUALITY ASSURANCE

- A. Quality Standard: SMACNA's "Architectural Sheet Metal Manual."

1.3 MATERIALS

- A. Sheet Metals for Flashing and Trim:
  - 1. Prepainted, metallic-coated steel: Galvanized or galvalume with high-performance organic Kynar/Hylar finish.

END OF SECTION

## SECTION 078410 - THROUGH-PENETRATION FIRESTOP SYSTEMS

### 1.1 SUMMARY

- A. Through-penetration firestop systems for penetrations through fire-resistance-rated fire walls, fire partitions, smoke barriers, floor/ceiling assemblies.

### 1.2 PERFORMANCE REQUIREMENTS

- A. Provide through-penetration firestop systems with the following ratings determined per UL 1479:
  - 1. F-Rated systems: F-ratings equaling or exceeding fire-resistance rating of constructions penetrated.
  - 2. T-Rated systems: For penetrations located outside wall cavities and outside fire-resistance-rated shaft enclosures.
  - 3. L-Rated systems: Where through-penetration firestop systems are indicated in smoke barriers.

### 1.3 QUALITY ASSURANCE

- A. Installer Qualifications: A firm approved by FMG according to FMG 4991, "Approval of Firestop Contractors."
- B. Fire-Test-Response Characteristics: Tested per ASTM E 814 by UL.

### 1.4 MATERIALS

- A. Accessories: Permanent forming/damming/backing materials, temporary forming materials, substrate primers, collars and sleeves as needed to comply with performance requirements.

### 1.5 INSTALLATION

- A. Identification: Preprinted metal or plastic labels, permanently attached.

### 1.6 FIELD QUALITY CONTROL

- A. Inspection of Installed Firestop Systems: By owner-engaged agency according to ASTM E 2174 requirements.

END OF SECTION

## SECTION 078420 - FIRE-RESISTIVE JOINT SYSTEMS

### 1.1 SUMMARY

- A. Fire-resistive joint systems for the following:
  - 1. Floor-to-floor joints.
  - 2. Floor-to-wall joints.
  - 3. Head-of-wall joints.
  - 4. Wall-to-wall joints.

### 1.2 PERFORMANCE REQUIREMENTS

- A. Fire-Resistive Ratings of Joint Systems in and between Fire-Resistance-Rated Constructions: Equaling or exceeding the fire-resistance ratings of construction that they join, as determined by UL 2079.
- B. Ratings of Perimeter Fire-Resistive Joint Systems: As indicated, determined by NFPA 285 and UL 2079.

### 1.3 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Tested by UL.

END OF SECTION

## SECTION 079200 - JOINT SEALANTS

### 1.1 SUMMARY

- A. Exterior Joints in Vertical Surfaces:
  - 1. Construction joints in cast-in-place concrete.
  - 2. Joints between plant-precast architectural concrete units.
  - 3. Control and expansion joints in unit masonry.
  - 4. Joints in exterior insulation and finish systems.
  - 5. Joints between different materials.
  - 6. Perimeter joints around frames of doors, windows, and louvers.
  
- B. Interior Joints in Vertical Surfaces and Horizontal Nontraffic Surfaces:
  - 1. Control and expansion joints on exposed interior surfaces of exterior walls.
  - 2. Perimeter joints of exterior openings.
  - 3. Vertical joints on exposed surfaces of walls and partitions.
  - 4. Perimeter joints between interior wall surfaces and frames of windows and elevator entrances.
  - 5. Joints between plumbing fixtures and adjoining walls, floors and counters.

### 1.2 MATERIALS

- A. Elastomeric Joint Sealants: ASTM C 920.
  - 1. Nonsag 2 Component urethane sealants, color to match substrate.
  
- B. Latex Joint Sealants: ASTM C 834, Type P, Grade NF.
  
- C. Acoustical Joint Sealants: Synthetic rubber.
  
- D. Joint-Sealant Backing: Elastomeric tubing.

END OF SECTION

## SECTION 081110 - STANDARD STEEL FRAMES

### 1.1 SUMMARY

- A. Standard hollow-metal steel frames.

### 1.2 QUALITY ASSURANCE

- A. Quality Standard: ANSI A250.8.

### 1.3 PRODUCTS

#### A. Standard Steel Frames:

1. Exterior doors: Metallic-coated (galvannealed) steel sheet, welded.
  - a. Frames for Level 2 steel doors: 0.053 inch thick (16 GA) steel sheet.
2. Interior doors: Cold-rolled steel sheet; welded.
  - a. Frames for Level 1 steel doors: 0.053 inch thick (16 GA) steel sheet.
  - b. Frames for wood doors: 0.053 inch thick (16 GA) steel sheet.
  - c. Frames for borrowed lights: 0.042 inch thick (18 GA) steel sheet.
3. Door silencers.

- B. Finishes: Factory priming for field painting.

### 1.4 INSTALLATION

- A. Metal-Stud Partitions: 3 stud anchors plus floor anchor.

END OF SECTION

SECTION 082110 - FLUSH WOOD DOORS

1.1 SUMMARY

- A. Factory finishing flush wood doors.

1.2 QUALITY ASSURANCE

- A. Quality Standard: AWI
  - 1. AWI Quality Certification labels or an AWI letter of licensing for doors.
  - 2. Meet or exceed WDMA 1.S.1-A Performance Standards (Heavy Duty).
- B. Fire-Rated Wood Doors: NFPA 252, atmospheric pressure.

1.3 WARRANTY

- A. Materials and Workmanship: Includes installation and finishing of repaired/replacement doors.
  - 1. Solid-core interior doors: 5 years.

2.1 DOOR CONSTRUCTION GENERAL

- A. Solid-Core Doors for Transparent Finish:
  - 1. Grade: Premium with Grade A faces
  - 2. Species and Cut: Select birch (match existing).
  - 3. Match between Veneer Leaves: Book match.
  - 4. Assembly of Veneer Leaves on Door Faces: running match.
  - 5. Match: Provide door faces of compatible color and grain for door hung in same opening or separated only by mullions.
  - 6. Room Match: Provide door faces of compatible color and grain within each separate room or area of building.
  - 7. Stiles: Same species as faces.
  - 8. Finish: To be selected by Architect.
  - 9. Provide sample of wood and finish prior to installation.

END OF SECTION

## SECTION 087110 - DOOR HARDWARE

### 1.01 SUMMARY

- A. Commercial door hardware for swinging doors.
- B. Hardware for aluminum entrance doors.
- C. Cylinders for doors specified elsewhere.

### 1.02 SUBMITTALS

- A. Door hardware schedule.
- B. Keying schedule.

### 1.03 QUALITY ASSURANCE

- A. Keying conference.
- B. Standard: BHMA A156.

### 1.04 WARRANTY

- A. Materials and Workmanship: Two years.

### 1.05 PRODUCTS

- A. Hinges:
  - 1. Interior: Steel. Brushed chrome – match existing.
  - 2. Fire-Rated Assemblies: Steel.
  - 3. Options: Nonremovable pins for locked outswing doors.
  - 4. Electric transfer hinges for doors with latch retraction.
- B. Locks and Latches:
  - 1. Mortise Locks: Sargent 8200 to match existing.
  - 2. Auxiliary Locks: Grade 1.
  - 3. Lockset Design: Lever handle.
  - 4. Locking: Removable core cylinders.
- C. Door Bolts:
  - 1. Surface Bolts: Grade 1.
  - 2. Flush Bolts: Grade 1.



- D. Exit Devices:
    - 1. Grade 1.
    - 2. Panic exit devices.
    - 3. Fire exit devices.
    - 4. Outside Trim: Match locksets and latchsets.
    - 5. Manufacturer: Sargent 80 Series.
    - 6. Electric latch retraction at one leaf of main aluminum entry doors.
    - 7. Provide delayed egress at one (1) door.
  
  - E. Cylinders and Keying:
    - 1. Cylinders:
      - a. Number of Pins: Match existing.
      - b. Cores: Removable.
    - 2. Construction Keying: Construction cores.
    - 3. Keying System:
      - a. Master system.
    - 4. Keys: Nickel silver.
  
  - F. Accessories for Pairs of Doors: Coordinators for fire rated pairs.
  
  - G. Closers:
    - 1. Surface: Grade 1, cast iron, Sargent, LCN.
    - 2. Closer-holder release devices.
  
  - H. Protective Trim Units: Plastic laminate.
  
  - I. Stops and Holders:
    - 1. Stops and Bumpers: Grade 1.
    - 2. Electromagnetic door holders for fire door assemblies.
    - 3. Floor stops.
    - 4. Silencers for metal door frames.
  
  - J. Door Gasketing:
    - 1. Gasketing: Perimeter, meeting stile.
    - 2. Door bottoms.
  
  - K. Thresholds.
    - 1. Aluminum Low Profile
  
  - L. ADA door operators.
  
  - M. Finishes: Match Existing
- 1.06 FIELD QUALITY CONTROL
- A. Architectural Hardware Consultant: Contractor engaged to perform inspections.

1.07 HARDWARE SETS

- A. Each hardware set listed below represents the complete hardware requirements for one opening. Furnish the quantities required for each set for the work. Door hardware schedule shall be provided as part of product submittal prepared by Hardware Consultant for Construction Manager.
1. Each door hardware group shall be individually described and coordinated with contract documents.
  2. Verify hardware finishes.

END OF SECTION

## SECTION 088000 - GLAZING

### 1.01 SUMMARY

- A. Glazing required for the following:
  - 1. Doors.
  - 2. Glazed entrances.
  - 3. Interior borrowed and curtain wall systems lites.
  - 4. Mirrors
  - 5. Sliding glass window

### 1.02 WARRANTY

- A. Deterioration of Coated Glass: Not less than 10 years.
- B. Deterioration of Insulating Glass: Not less than 10 years.

### 1.03 MATERIALS

- A. Glass Products:
  - 1. Annealed Float Glass: Clear.
  - 2. Heat-Treated Float Glass: Fully tempered.
  - 3. Coat Float Glass: Pyrolytically coated low-e.
  - 4. Wired Glass: Patterned.
  - 5. Mirror Glass: Tempered, full height mirrors. Refer to drawings
  - 6. Insulating Glass: Manufacturer's standard dual-seal units.

### 1.04 GLASS UNITS

- A. Clear Float Glass:
  - 1. ASTM C 1036, Type 1 (transparent glass, flat), Quality q3 (glazing select); Class 1 (clear), ¼ inch (6 mm) thick.
- B. Mirrored Glass:
  - 1. Silvered mirrored Glass: Float glass with successive layers of chemically deposited silver, electrically or chemically deposited copper, and manufacturer's standard organic protective coating applied to second glass surface to produce a coating system complying with ASTM C1036 and CPSC 16 CFF 1201, ¼ inch (6mm) thick.
    - a. Safety Backing Film: Provide safety backing film or tape by C.r. Laurence Company, Inc. or approved substitute to provide safety compliance with ANSI Z97.1-84
  - 2. Mirrored Glass Edge Treatment: Beveled polished edge.

### 1.05 TOP HUNG SLIDING GLASS WINDOW

- A. Hafele dual track unit. Refer to drawing for type and size.

END OF SECTION

## SECTION 08911 - GLAZED ALUMINUM CURTAIN WALLS

### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Conventionally glazed aluminum curtain walls installed as stick systems.
  - 2. Break metal in conjunction with frames.
  - 3. Sealant at interior and exterior perimeter of curtain wall.

### 1.2 PERFORMANCE REQUIREMENTS

- A. General: Provide glazed aluminum curtain-wall systems, including anchorage, capable of withstanding, without failure, the effects of the following:
  - 1. Structural loads.
  - 2. Thermal movements.
  - 3. Movements of supporting structure indicated on Drawings including, but not limited to, story drift, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
  - 4. Dimensional tolerances of building frame and other adjacent construction.
  - 5. Failure includes the following:
    - a. Air infiltration and water penetration exceeding specified limits.
    - b. Deflection exceeding specified limits.
    - c. Thermal stresses transferred to building structure.
    - d. Framing members transferring stresses, including those caused by thermal and structural movements, to glazing.
    - e. Noise or vibration created by wind and thermal and structural movements.
    - f. Loosening or weakening of fasteners, attachments, and other components.
    - g. Sealant failure.
- B. Glazing is physically and thermally isolated from framing members.
- C. System is pressure equalized at its interior face.
- D. System is reglazable from the exterior.

### 1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Capable of performing Work of this Section and who is acceptable to manufacturer.

### 1.4 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of structural supports for glazed aluminum curtain-wall systems by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate submittal and fabrication schedule with construction progress to avoid delaying the Work.

1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating glazed aluminum curtain- wall systems without field measurements. Coordinate construction to ensure that actual dimensions correspond to established dimensions.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide one of the following:
  1. Kawneer Company, Inc.; 1600 Wall System. Match existing units
  2. Vistawall Architectural Products; 2600 Thermal Curtain Wall System. Match existing units.

### 2.2 ALUMINUM FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
  1. Match existing aluminum curtain walls.

### 3.3 PROTECTION

- A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure glazed aluminum curtain wall system is without damage or deterioration at time of Substantial Completion. Protect finish, seals, and other components from damage.

END OF SECTION 08911

SECTION 092600 - GYPSUM BOARD ASSEMBLIES

1.01 SUMMARY

- A. Interior gypsum wallboard.
- B. Non-load-bearing steel framing.
- C. Skim coat

1.02 QUALITY ASSURANCE

- A. Mockups for each exposed finish indicated.

1.03 MATERIALS

- A. Steel Suspended Ceiling and Soffit Framing:
  - 1. Protective Coating: Manufacturer's standard corrosion-resistant zinc coating.
  - 2. Hangers: Wire.
  - 3. Carrying channels: Cold-rolled steel.
  - 4. Furring channels (Furring members): Cold-rolled channels and hat-shaped, rigid channels.
  - 5. Grid suspension system: Direct hung drywall suspension system instead of cold rolled steel channels and hat furring.
  - 6. Ceiling types: Non-rated.
- B. Steel Non-Bearing Partitions and Soffit Framing:
  - 1. Protective coating: Hot-dipped galvanized zinc coating/ASTM A 1003.
  - 2. Studs and runners.
  - 3. Deflection track: Deep leg.
  - 4. Firestop deflection track at rated walls.
  - 5. Cold-rolled channel bridging.
  - 6. Furring: Hat-shaped, rigid channels and resilient channels.
- C. Interior Gypsum Wallboard:
  - 1. 5/8 inch, Type X.
    - a. Provide moisture resistant type at toilet rooms, bathrooms and other high humidity areas.
  - 2. Dens Shield tile backer board by Georgia-Pacific.
  - 3. Skim coat existing walls in area of trim and handrail demolition.
- D. Interior Trim: Galvanized corner beads, LC-beads, L-beads, U-beads and one-piece control joints.
- E. Joint Reinforcing: Paper tape.
- F. Joint Compound for Interior Gypsum Wallboard:
  - 1. Embedding and First Coat: Setting-type taping or drying-type, all-purpose compound.
  - 2. Fill Coat: Setting-type, sandable topping compound.
  - 3. Finish Coat: Setting-type, sandable topping compound.
- G. Acoustical sealant.
  - 1. Set starter track in sealant. Caulk partitions between offices.

- H. Sound attenuation blankets.
  - 1. Between rooms, corridors and around toilet rooms.

- I. Exterior Gypsum Board Sheathing:

- 1. Densglass-Gold, 5/8 inch, Type X.

#### 1.04 INSTALLATION

- A. Steel Suspended Ceiling and Soffit Furring: 16 inches o.c.
- B. Steel Partition/Wall and Soffit Framing: 16 inches o.c.
- C. Gypsum Board Finish Levels:
  - 1. Level 1: Concealed areas.
  - 2. Level 4: At panel surfaces exposed to view.
  - 3. Windows: Provide gypsum board returns at head and jambs.

END OF SECTION

## SECTION 093100 - CERAMIC TILE

### 1.01 SUMMARY

- A. Porcelain tile.
- B. Crack-suppression membrane for thin-set tile installations.
- C. Metal edge strips installed as part of tile installations.

### 1.02 QUALITY ASSURANCE

- A. Mockups for each form of construction.
- B. Test Results: Provide results of specified alkalinity and adhesion tests, calcium chloride moisture tests, and relative humidity test specified. Include manufacturer's written moisture requirements for each resilient flooring type specified.

### 1.03 MATERIALS

- A. Ceramic tile, Product and Locations – Refer to Room Finish Schedule
- B. Crack-Suppression Membranes: Fabric-reinforced, fluid applied rubber.
  - 1. Provide for saw cuts and cracks at slab-on-grade.
- C. Trowelable Underlayments and Patching Compounds: Latex-modified, Portland cement-based formulation.
- D. Metal Edge Strips: L-shape, zinc alloy or stainless steel terrazzo strips with integral provision for anchorage to mortar bed or substrate.
  - 1. Product: Schluter-SCHIENE. Architect to select finish from Manufacturer's full line of finish options.

### 1.04 FLOOR TILE INSTALLATION SCHEDULE

- A. Interior Floors on Crack-Suppression Membrane over Concrete: Thin-set mortar.
  - 1. Tile Type: Porcelain tile
  - 2. Mortar and Grout: Latex-Portland cement mortar.

### 1.05 WALL TILE INSTALLATION SCHEDULE

- A. Interior Walls over Georgia Pacific Denshield, Water-Resistant Backer Board: Organic adhesive. Provide membrane water proofing.
  - 1. Tile Type: Porcelain tile
  - 2. Mortar and Grout: Recommended grout width: 1/16", latex modified unsanded grout, seal grout.

END OF SECTION



SECTION 095110 - ACOUSTICAL PANEL CEILINGS

1.01 SUMMARY

- A. Acoustical panels and exposed suspension systems.

1.02 QUALITY ASSURANCE

- A. Acoustical Panel Quality Standard: ASTM E 1264.
- B. Metal Suspension System Quality Standard: ASTM C 635.

1.03 PRODUCTS

- A. Water-Felted, Mineral-Base Acoustical Panels:
  - 1. Type III with painted finish; fire-resistance rated and non-rated.
  - 2. NRC: .65.
  - 3. CAC: 38.
  - 4. Size: 24 by 24 inches by 3/4 inch, beveled tegular.
  - 5. Fire Rating: Class A (ASTM E84).
  - 6. Products: Armstrong World Industries, Inc. or equal.
    - a. General Use: Match existing.
  - 7. Locations: As indicated on reflected ceiling plan
  - 8. Color: White
- B. Metal Suspension System Components:
  - 1. Wire hangers, braces, and ties.
  - 2. Hold-down clips in vestibules.
- C. Metal Suspension Systems:
  - 1. Prelude 15/16"
    - a. Wide-Face, Capped, Double-Web Steel, General: Intermediate duty, nonrated.
    - b. Color: White
- D. Metal Edge Moldings and Trim: Roll-formed sheet metal.

1.04 INSTALLATION

- A. Installation: ASTM C 636.

END OF SECTION

## SECTION 096500 - RESILIENT FLOORING

### 1.01 SUMMARY

- A. Sheet Vinyl/Sheet rubber.
- B. Resilient wall base and accessories.
- C. Vinyl Plank
- D. Vinyl Composition Tile

### 1.02 PRODUCTS

- A. Sheet rubber, ASTM F 1859:
  - 1. Product: Shaw Contract, Resilient, Refer to Finish Schedule.
  - 2. Location: Refer to Finish Schedule.
  - 3. Product: Rexcourt 0003V, 4.5 mm, Refer to Finish Schedule.
- B. Vinyl Plank, ASTM F 1700:
  - 1. Product: Decoria, Decoria Plank.
  - 2. Locations: Refer to Finish Schedule
- C. Resilient Wall Base:
  - 1. Type: Vinyl, Refer to Room Finish Schedule, ASTM F 1861.
    - a. Style: Cove (with top-set toe).
    - b. Minimum Thickness: 0.125 inch
    - c. Height: 4 inches.
    - d. Outside Corners: Job formed.
    - e. Inside Corners: Job formed.
- D. Resilient Molding Accessories: Vinyl transition strips.
- E. Vinyl Composition Tile
  - 1. Vinyl composition Tile, VCT1 & VCT2: ASTM F 1066.
    - a. Product: Essentials; Mannington Mills, Inc.
      - 1) Color: As indicated in Interior Finish Legend
    - b. Class: 2 (through-pattern tile).
    - c. Wearing Surface: Smooth.
    - d. Thickness: 0.125 inch.
    - e. Size: 12 by 12 inches.
    - f. Fire-Test-Response Characteristics:
      - 1) Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm per ASTM E 648.
    - g. Finish: Topshield Finish

### 1.03 TESTS/CERTIFICATION

- A. Test Results: Provide results of alkaline and adhesion tests, calcium chloride moisture tests and relative humidity test including manufacturer's requirement for tests and acceptance of site conditions.
  - 1. Complete Results document: Provide (1) copy to Owner and (1) copy to Architect.

1.04 SUBMITTALS

- A. Maintenance Data: For each type of flooring product maintenance manuals to be included.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs workers for this Project who are competent in techniques required by manufacturer for resilient floor covering installation and seaming method indicated.
  - 1. Sheet Rubber Flooring and Sheet Vinyl Flooring: Engage an installer who employs workers for this Project who are trained or certified by floor covering manufacturer for installation techniques required.
- B. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
  - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver resilient flooring materials and installation accessories to Project site in original manufacturer's unopened cartons and containers each bearing name of product and manufacturer, Project identification, and shipping and handling instructions.
- B. Store resilient flooring and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 80 deg F. Store floor tiles on flat surfaces and rolls upright.

1.07 PROJECT CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 1.07.1 deg F or more than 80 deg F, in spaces to receive resilient flooring during the following time periods:
  - 1. 48 hours before installation.
  - 2. During installation.
  - 3. 72 hours after installation.
- B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 80 deg F.
- C. Close spaces to traffic during resilient flooring installation.
- D. Close spaces to traffic for 48 hours after floor tile installation.
- E. Install resilient flooring after other finishing operations, including painting, have been completed.

PART 2 – PRODUCTS

2.1 INSTALLATION MATERIALS

- A. Concrete Slab Primer: Nonstaining type as recommended by flooring manufacturer.

- B. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by manufacturer for applications indicated.
  - 1. Product: Ardex; SD-F Feather Finish.
- C. Adhesives: Premium grade, water-resistant type recommended by manufacturer to suit floor tile and substrate conditions indicated.
  - 1. Use adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
    - a. Solid Vinyl Planks: Not more than 50 g/L.
    - b. Rubber Floor Adhesives: Not more than 60 g/L.
    - c. Sheet Vinyl Floor Coverings: Not more than 50 g/L.
    - d. Sheet Rubber Floor Coverings: Not more than 60 g/L.
    - e. Cove Base Adhesives: Not more than 50 g/L.
- D. Seamless-Installation Accessories:
  - 1. Heat-Welding Bead: Manufacturer's solid-strand product for heat welding seams.
    - a. Color: As selected by Architect from manufacturer's full range.
- E. Integral-Flash-Cove-Base Accessories:
  - 1. Cove Strip: 1-inch radius provided or approved by manufacturer.
  - 2. Cap Strip: Vinyl cap provided or approved by manufacturer.
- F. Floor Stripper for Solid Vinyl Floor Plank,: Floor stripper as recommended by by solid vinyl floor plank manufacturer to remove mold release agent on solid vinyl floor plank.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.
- D. Manufacturer's Installation Guidelines/Standards shall be followed to maintain warranties.

### 3.2 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
- B. Concrete Substrates: Prepare according to ASTM F 710 and the following:
  - 1. Verify that substrates are dry and free of curing compounds, sealers, hardeners, and other

materials whose presence would interfere with bonding of adhesive. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by flooring manufacturer, and with the specified requirements.

2. An independent testing agency shall perform alkalinity and adhesion tests, calcium chloride moisture tests, and relative humidity test. Field technician shall be International Concrete Repair Institute (ICRI) certified to a Grade 1, Moisture Testing Technician level. Testing shall be conducted as follows:
    - a. Maintain a minimum temperature of 70 deg F in spaces to receive flooring for at least 72 hours prior to and during the tests.
    - b. Perform the tests at rate of not less than 1 test/1000 sq. ft. of floor area.
    - c. Perform tests on both new and existing slabs.
  3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
  4. Moisture Testing: Perform tests recommended by manufacturer and as follows.
    - a. Anhydrous Calcium Chloride Test: Perform test in accordance with ASTM F 1869, except area of CaCl<sub>2</sub> dish shall not be deducted.
    - b. Relative Humidity Test: Perform test using in situ probes, ASTM F 2170.
    - c. 80 percent of the moisture tests conducted shall be relative humidity tests.
  5. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours, a maximum 75 percent relative humidity level measurement, or greater if permitted by the resilient flooring manufacturers, and manufacturer's requirements for alkalinity and adhesion are met.
- C. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
- D. Existing Floor Slabs: Scrape and remove adhesive from floor where existing floor covering are removed. Trowel apply underlayment compound over entire floor to smooth substrate surface and prevent telegraphing of surface irregularities. Level and smooth over trench cut areas to prevent telegraphing of trench cut and patching through finish flooring.
- E. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.
- F. Do not install resilient flooring until it is same temperature as space where it is to be installed.
  1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.
- G. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, and dust. Proceed with installation only after unsatisfactory conditions have been corrected.
- ### 3.3 RESILIENT FLOORING INSTALLATION, GENERAL
- A. Install in accordance with manufacturer's written instructions and requirements of this Section.
  - B. Scribe, cut, and fit flooring to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, edgings, door frames, thresholds, and nosings.

- C. Extend flooring into toe spaces, door reveals, closets, under ADA sink counters, and similar openings. Extend flooring to center of door openings, unless noted otherwise.
- D. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor covering as marked on substrates. Use chalk or other nonpermanent, nonstaining marking device.

### 3.4 FLOOR TILE INSTALLATION

- A. Comply with manufacturer's written instructions for installing floor tile and planks.
- B. Lay out floor tiles and planks from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter. Install tiles square with room axis, unless otherwise indicated.
- C. Match floor tiles and planks for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles and planks.
- D. Adhere floor tiles and planks to flooring substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections. Tiles and planks shall be aligned straight with tight joints.
- E. Hand roll tiles and planks where required by tile and planks manufacturers.

### 3.5 INSTALLATION OF SHEET FLOOR COVERING

- A. Comply with manufacturer's written instructions for installing floor coverings, including those for trowel notching, adhesive mixing, and adhesive open and working times.
- B. Unroll floor coverings and allow them to stabilize and relax before cutting and fitting.
- C. Lay out floor coverings as follows:
  - 1. Maintain uniformity of floor covering direction.
  - 2. Minimize number of seams; place seams in inconspicuous and low-traffic areas.
    - a. Lay floor covering in full width pieces without end-to-end joints.
  - 3. Match edges of floor coverings for color shading and pattern at seams.
  - 4. Avoid cross seams.
  - 5. Locate seams per approved Shop Drawings.
- D. Adhere floor coverings to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.
- E. Seamless Installation:
  - 1. Heat-Welded Seams: Comply with ASTM F 1516. Rout joints and use welding bead to permanently fuse sections into a seamless floor covering. Prepare, weld, and finish

seams to produce surfaces flush with adjoining floor covering surfaces.

- F. Integral-Flash-Cove Base: Cove floor coverings 6 inches up vertical surfaces, unless otherwise indicated. Support floor coverings at horizontal and vertical junction by cove strip. Butt at top against cap strip.
- G. Hand roll sheet floor coverings in both directions from center out to embed floor coverings in adhesive and eliminate trapped air. At walls, door casings, and other locations where access by roller is impractical, press floor coverings firmly in place with flat-bladed instrument.

### 3.6 RESILIENT BASE INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient base.
- B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required. Provide on fronts and exposed sides and backs of floor-mounted casework. Where toe space is less than base height, cut down base to proper height.
- C. Install resilient base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
- D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- E. Do not stretch resilient base during installation.
- F. Preformed Corners: Install preformed corners before installing straight pieces.

### 3.7 RESILIENT ACCESSORY INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient accessories.
- B. Resilient Stair Accessories:
  - 1. Clean backs of tread and lightly sand to ensure proper adhesion.
  - 2. Use stair-tread-nose filler to fill nosing substrates that do not conform to tread contours.
  - 3. Install treads with epoxy adhesive and roll until a firm bond has been obtained.
  - 4. Tightly adhere to substrates throughout length of each piece.
- C. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of carpet and resilient floor coverings that would otherwise be exposed.

### 3.8 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protection of resilient floorings and accessories.
- B. Perform the following operations immediately after completing flooring installation:
  - 1. Remove adhesive and other blemishes from exposed surfaces using cleaner recommended by resilient floor covering manufacturers.
  - 2. Sweep and vacuum surfaces thoroughly.
  - 3. Damp-mop surfaces to remove marks and soil.

a. Do not wash surfaces until after time period recommended by manufacturer.

- C. Stripping of Solid Vinyl Floor Plank, R5: Strip mold release agent from surface of solid vinyl floor plank in accordance with manufacturer's written instructions. Scrub the floor with a recommended stripper diluted at a 1:5 dilution with clean water. Use a 175-rpm single disk

machine equipped with either a brush for floors or a green pad. Pick up the stripping solution with a wet/dry vacuum and then rinse the floor with clear water. Do not allow the solution to dry or work its way beneath the flooring, which will result in adhesive failure. Allow flooring to dry thoroughly before exposing to traffic.

- D. Protect flooring products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods recommended in writing by manufacturer.
- E. Final cleaning, waxing, and buffing specified in Division 01 Section "Closeout Procedures."
- F. Cover resilient flooring with undyed, untreated building paper until Substantial Completion.
1. Do not move heavy and sharp objects directly over surfaces. Place hardboard or plywood panels over flooring and under objects while they are being moved. Slide or roll objects over panels without moving panels.

END OF SECTION



SECTION 09680 - CARPET

PART 1 - GENERAL

1.01 SUMMARY

- A. Carpet

1.02 WARRANTY

- A. Carpet Failure: Lifetime Commercial Limited
  - 1. Abrasive wear, static protection, tuftbind/zippering, edge ravel, integrity/delamination, seams, moisture management.

1.03 MATERIALS

- A. Carpet C1:
  - 1. Refer to Finish Schedule
  - 2. Locations: Refer to Finish Schedule

1.04 INSTALLATION

- A. Installation Method:
  - 1. Carpet A: Direct glue-down

1.05 TESTING/CERTIFICATIONS

- A. Test Results: Provide results of alkaline and adhesion tests, calcium chloride moisture tests and relative humidity test including manufacturer's requirement for tests and acceptance of site conditions.

1.06 SUBMITTALS

- A. Test Results: Provide results of specified alkalinity and adhesion tests, calcium chloride moisture tests, and relative humidity tests. Include manufacturer's written moisture requirements for each carpet type specified.
- B. Adhesive Certificates: Carpet manufacturer shall certify that proposed adhesives are acceptable for use with carpet.
- C. Maintenance Data: For carpet to include in maintenance manuals specified in Division 1. Include the following:
  - 1. Methods for maintaining carpet, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
  - 2. Precautions for cleaning materials and methods that could be detrimental to carpet.

1.07 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide products with the critical radiant flux classification indicated in Part 2, as determined by testing identical products per ASTM E 648 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.

#### 1.08 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install carpet until wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at and will continuously maintained at the levels indicated for Project when occupied for its intended use.
- B. Do not install carpet over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet manufacturer.

#### 1.09 WARRANTY

- A. General Warranty: Special warranty specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Special Carpet Warranty: Written warranty, signed by carpet manufacturer agreeing to replace carpet that does not comply with requirements or that fails within specified warranty period. Warranty does not include deterioration or failure of carpet due to failure of substrate, vandalism, or abuse. Warranty shall not require the use of chair pads. Failures include, but are not limited to, edge raveling, snags, zippering, backing resiliency loss, and delamination.
  - 1. Warranty Period: As indicated for each product.

#### 1.10 EXTRA MATERIALS

- A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Carpet: Scraps large enough for patching for each type indicated.

### PART 2 - PRODUCTS

#### 2.01 CARPET

- A. C1: Shall be J & J Invision custom design style Palladian; in colors indicated in Interior Finish

Legend. Carpet criteria for ordering is as follows:

- |                  |                         |
|------------------|-------------------------|
| 1. Sample No.:   | 6540                    |
| 2. Fiber:        | Encore BCF              |
| 3. Construction: | Pattern Loop            |
| 4. Dye Method:   | Solution dyed/Yarn dyed |
| 5. Gauge:        | 1/12                    |

6. Stitches per Inch: 9.3
7. Pattern Repeat: 24-inches by 21.6-inches.
8. Pile Weight: 22 oz. /sq. yd.
9. Width: 12-feet.
10. Backing: PremierBac Plus
11. Special Treatment: SSP Stain Resistant System.
12. Warranties: 10 years unless otherwise noted below; and start from date of substantial completion.
  - a. Fiber - Abrasive wear: Lifetime.
  - b. Fiber - Static Protection: Lifetime.
  - c. Backing - Tuft Bind: Lifetime.
  - d. Backing - Edge Ravel: Lifetime.
  - e. Backing - Integrity/Delamination: Lifetime.

## 2.02 INSTALLATION ACCESSORIES

- A. Concrete Slab Primer: Nonstaining type provided by or recommended by the carpet manufacturer.
- B. Trowelable Leveling and Patching Compounds: Latex-modified, cement-based formulation provided by or recommended by the carpet manufacturer, permitting a moisture emission rate up to 5 lb/1000 sq. ft. /24 hours.
- C. Adhesives: Premium grade, water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and that is recommended by the carpet manufacturer, permitting a moisture emission rate up to 5 lb/1000 sq. ft. /24 hours.
  1. Adhesives shall be compatible with radiant heat systems.
- D. Seaming Cement: Adhesive product recommended by carpet manufacturer for butting cut edges at backing to form secure seams and to prevent pile loss at seams.

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance. Verify that substrates and conditions are satisfactory for carpet installation and comply with requirements specified.
- B. Examine carpet for type, color, pattern, and potential defects.
- C. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:
  1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by carpet manufacturer, and with the following specified requirements:

2. An independent testing agency shall perform alkalinity and adhesion tests, calcium chloride moisture tests, and relative humidity tests.
  - a. Perform tests on slabs to receive glue down carpet installation at rate of 1 test/1000 sq. ft. of floor area for slabs-on-grade.
  - b. Maintain a minimum temperature of 70° F in spaces to be tested for at least 72 hours prior to and during the tests.
  - c. Provide additional tests at floors after radiant heat has been in operation for not less than 2 weeks. Perform tests while system is operating.
3. Alkalinity and Adhesion Testing: Shall result in pH range recommended by carpet and carpet tile manufacturers when subfloor is wetted with potable water and pHDrion paper is applied. Perform pH tests on concrete floors regardless of age or grade level.
4. Moisture Testing:
  - a. Anhydrous Calcium Chloride Test: Tests shall be conducted in accordance with ASTM F 1869-02, except that the area of the CaCl<sub>2</sub> dish shall not be deducted.
  - b. Relative Humidity Test: Conduct in accordance with ASTM F 2170.
5. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours, a maximum 75% relative humidity level measurement, and manufacturer's requirements for alkalinity and adhesion are met.
6. Subfloor finishes comply with requirements specified in Division 3 Section "Cast-in-Place Concrete" for slabs receiving carpet.
7. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits of any kind.

D. If conditions detrimental to work are encountered, prepare written report, signed by Installer, documenting unsatisfactory conditions and send to Architect

E. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.02 PREPARATION

- A. General: Comply with CRI 104, Section 7.3, "Site Conditions; Floor Preparation," and carpet manufacturer's written installation instructions for preparing substrates indicated to receive carpet installation.
- B. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by the carpet manufacturer.
- C.. Broom and vacuum clean substrates to be covered immediately before installing carpet. After cleaning, examine substrates for moisture, alkaline salts, carbonation, or dust. Proceed with installation only after unsatisfactory conditions have been corrected.
- D. Concrete Subfloor Preparation: Apply concrete slab primer, according to manufacturer's directions, where recommended by the carpet manufacturer.

### 3.03 INSTALLATION

- A. Direct-Glue-Down Installation: Comply with CRI 104, Section 9, "Direct Glue-Down Installation."
- B. Comply with carpet manufacturer's written recommendations for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doorways, center seams under the door in closed position.
  - 1. Level adjoining border edges.
- C. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet manufacturer.
- D. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- E. Install pattern parallel to walls and borders to comply with CRI 104, Section 15, "Patterned Carpet Installations" and with carpet manufacturer's written recommendations.

#### 3.04 CLEANING AND PROTECTION

- A. Perform the following operations immediately after installing carpet:
  - 1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
  - 2. Remove yarns that protrude from carpet surface.
  - 3. Vacuum carpet using commercial machine with face-beater element.
- B. Protect installed carpet to comply with CRI 104, Section 16, "Protection of Indoor Installations."
- C. Protect carpet against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet manufacturer to ensure carpet is without damage or deterioration at the time of Substantial Completion.

END OF SECTION 09680

SECTION 099000 - PAINTING

1.01 SUMMARY

- A. Field painting of exposed exterior and interior items and surfaces.

1.02 QUALITY ASSURANCE

- A. Benchmark Samples (mockups) for each type of coating and substrate.

1.03 INTERIOR PAINT SCHEDULE

- A. Manufacturer, Product: Sherwin Williams, Low VOC paint. Refer to Interior Finish Legend.
- B. Gypsum Board Ceilings: Two finish coats of interior flat acrylic paint over interior gypsum board primer.
- C. Gypsum Board Walls: Two finish coats of low-luster (eggshell) acrylic paint over interior primer.
- D. Wood Trim, Opaque Finish: Two finish coats of interior semigloss acrylic enamel over interior wood primer.
- E. Ferrous Metal: Two finish coats of interior semi-gloss acrylic enamel over factory applied ferrous-metal primer.
  - 1. Locations: Doors, door frames, stair risers and where designated.
- F. Concrete Masonry: Two finish coats over primer of semi-gloss epoxy finish.

1.04 INTERIOR PAINTING SCHEDULE

- A. Refer to interior finish legend and schedule.

END OF SECTION

SECTION 101550 - RESTROOM PARTITIONS, FLOOR-MOUNTED WITH OVERHEAD BRACE

PART 1 - GENERAL

1.01 SUMMARY

- A. This section includes Baked enamel toilet partitions, hardware, and structural accessories.

1.02 RELATED SECTIONS

- A. Section 10800: Toilet and Bath Accessories.

1.03 SUBMITTALS

- A. Shop drawings: Layout of toilet partitions.
- B. Product data: Manufacturer's catalog cuts of typical panel, pilaster, door, hardware, and fastening.
- C. Color chips: Manufacturer's complete range of 18 standard colors for baked enamel.
- D. Finishes: Baked enamel.

1.04 QUALITY ASSURANCE

- A. Components of toilet partitions shall be sourced from one single-source manufacturer who certifies that materials meet or exceed specifications.
- B. Installation: Installer shall have a history of completed jobs of similar size and scope, and shall be qualified.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Pre-finished materials shall be delivered to the job site in original, unopened cartons or other packaging materials necessary to protect finishes. Materials shall be stored in manufacturer's packaging until installation. Partitions shall be stored in horizontal position with adequate support to ensure flatness and to prevent damage to pre-finished surfaces.

1.06 PROJECT CONDITIONS

- A. Building shall be enclosed and provide complete protection from outside weather. Temperature within building shall be above a minimum of 60 degrees Fahrenheit.

1.07 WARRANTY

- A. Manufacturer shall provide a 15-year warranty against rusting of panels from the inside.
- B. Manufacturer shall provide a 5-year warranty for chrome hardware, and a lifetime warranty for stainless steel hardware.

## PART 2 - PRODUCTS

### 2.01 MANUFACTURER

- A. Provide products manufactured by The Mills Company, subsidiary of Bradley Corp., Menomonee Falls, WI.

### 2.02 EQUIPMENT

- A. Sentinel Floor-Mounted Overhead-Braced Series 400 toilet partition system.

### 2.03 COMPONENTS

- A. Permaseal edges shall be formed as a two-piece unit to interlock together to provide a watertight fit. Corners are to be brazed and finished smooth. Permaseal components shall not utilize drown molding.
  - 1. Permaseal Panels: **1-inch** thick panels shall be manufactured from 22-gauge galvanized steel, spaced and insulated with a moisture-resistant honeycomb core, adhered to the inner surfaces and set under pressure to cure.
  - 2. Permaseal Doors: **1-inch** thick doors shall be manufactured from 22-gauge galvanized steel, spaced and insulated with a moisture-resistant honeycomb core, adhered to the inner surfaces and set under pressure to cure. 16- and 14-gauge welded reinforcements shall be provided at top and bottom hinges. Concealed molybdenum cam to be factory installed. Door top to be drilled to receive top hinge pin provide three-point anchor. Slide latch holes to be pre-punched to permit field installation of concealed ADA-compliant slide latch.
  - 3. Permaseal Plasters: **1¼-inch** thick plasters shall be manufactured from 20-gauge galvanized steel, spaced and insulated with a moisture-resistant honeycomb core, adhered to the inner surfaces and set under pressure to cure. The floor edge of the pilaster shall be provided with an internally welded 18-gauge reinforcement that will accept a **3/8-inch** zinc-plated jack bolt for leveling. The bracket shall connect to two "L" brackets that are secured to the floor and will allow for a full range of adjustment.
- B. Headrail of etched and anodized aluminum shall be secured to the wall with stainless steel brackets.
- C. **3-inch** high one-piece shoe of type 304 stainless steel shall be secured by concealed retainer clips.
- D. Hardware: Mills heavy-duty chromed Zamac hardware and fasteners necessary to complete an installation shall be provided.
  - 1. Hinges shall be wraparound and thru-bolted to the pilasters and shall have true gravity cams concealed within the door. The closing position of each hinge shall be full adjustable.
  - 2. Concealed slide latch shall provide emergency egress, shall not require any twisting motion, and shall be added for out-swing doors.
  - 3. Strike and keeper to be provided as surface-mounted.
  - 4. Coat hook and wall bumper shall be provided for in-swing doors. Door pulls shall be added for out-swing doors.
  - 5. Stirrup-type, single-ear, double-ear, and U-brackets shall be provided at appropriate locations.



6. Fastener for hinges, slide latch, and keep shall be zinc-plated with theft-resistant heads.
7. Fastener for brackets shall be zinc-plated with torx-heads.

#### 2.04 FINISHES

- A. Baked enamel partitions shall be cleaned and finished with automatically applied electrostatic high-grade synthetic enamel and oven-baked to provide a mar-resistant finish. Color: To be Selected.

### PART 3 - EXECUTION

#### 3.01 INSPECTION

- A. Before installation, the installer shall inspect the site to ensure that no defects or conditions exist which would result in an unsatisfactory installation of the partitions. Measurements should also be taken at this time to further ensure correct installation.

#### 3.02 INSTALLATION

- A. Install partitions, screens, dressing compartments, and enclosures in accordance with shop drawings and manufacturer's current installation instructions. Leave partitions complete, clean, and free from defects in workmanship.
- B. Doors and hardware shall be thoroughly adjusted and left in proper working condition. Set doors in open or closed partitions as required.
- C. Out-swing doors of more than 105° must have a wall or panel to stop door travel. (Note: Failure to follow manufacturers recommended installation procedures voids warranty.)

#### 3.03 CLEANING

- A. All rubbish and cartons generated by installer shall be removed and area left broom clean.

#### 3.04 LOCATION

- A. Women 376
- B. Men 375

END OF SECTION 101550

## SECTION 10431 - SIGNAGE

### 1.1 SUMMARY

- A. Interior ADA signage.

### 1.2 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines.

### 1.3 PRODUCTS

- A. Interior Panel Signs: Provide signs having the following characteristics:
  1. Substrate: Fabricate signs from 1/8-inch thick matte clear acrylic with edges mechanically and smoothly finished to eliminate cut marks. Background color to be subsurface.
  2. Assembly: Sandwich two exact sized acrylic pieces with foam tape as dividers. Face plate to have clear windows for message inserts. Provide maple backer board.
  3. Background Color: Custom color to be selected by Architect.
  4. Edges: Straight.
  5. Corners: Radiused.
  6. Letter Height: 5/8-inch minimum.
  7. Font Style: Helvetica.
  8. Copy Color: As selected by Architect from manufacturer's standard colors.
  9. Letterform: Apply 1/32-inch computer precision cut tactile copy. Letters shall be all uppercase with normal spacing. Tactile letters shall be applied in a manner that avoids scoring of sign's surface at base of tactile letters.
  10. Braille: Use raster process to create all Braille sells. Drill holes in each dot location and fit clear raster balls into each hole.
  11. Basis-of-Design Product: Welch Architectural Signage; contact: Jeff Pappalardo; phone: (800) 635-3506; fax: (800) 225-6859.
  12. Size: 9" width x 7" high, rectangular shape.

### 1.4 FINISHES

- A. Acrylic Sheet: Copy and background colors that are UV and water resistant for five years. Location: At all existing room sign locations.

END OF SECTION 10431

## SECTION 10520 - FIRE-PROTECTION SPECIALTIES

### 1.1 SUMMARY

- A. Portable fire extinguishers.
- B. Fire-Protection Cabinets:
  - 1. Portable fire extinguishers.
- C. Mounting brackets for fire extinguishers.

### 1.2 QUALITY ASSURANCE

- A. Fire Extinguishers: NFPA 10.

### 1.3 PRODUCTS

- A. Portable Fire Extinguishers:
  - 1. Multipurpose Dry-Chemical Type: Manufacturer's standard container; in all locations unless otherwise noted.
- B. Fire-Protection Cabinets:
  - 1. Type: For fire extinguishers.
  - 2. Construction: Nonrated. Rated where located in fire-rated walls.
  - 3. Cabinet Material: Enameled-steel sheet.
  - 4. Mounting: Semirecessed.
  - 5. Door Material: Steel sheet.
  - 6. Door Style: Vertical duo panel with frame.
  - 7. Door Glazing: Tempered float glass.
  - 8. Accessories: Mounting brackets and identification lettering.
  - 9. Finishes:
    - a. Steel Finish: Factory primed for field painting.
- C. Mounting Brackets: Steel with identification lettering for fire extinguishers located in Mechanical Rooms.

END OF SECTION

SECTION 108010 - TOILET AND BATH ACCESSORIES

1.1 SUMMARY

- A. Common Area Restrooms: Bobrick
  - 1. Sanitary napkin dispenser
  - 2. Grab bars
  - 3. Mirror (Refer to Section 088000 Glazing).
  - 4. Coat hook.
  - 5. Manufacturer: Maxwell Collection, Taymor Industries, Inc.

1.2 WARRANTY

- A. Silver Spoilage for Mirrors: 15 years.

END OF SECTION

SECTION 10850 - BUILDING SPECIALTIES

1.1 SUMMARY

- A. Corner Guards
- B. Gym Wall Pad Protection

1.2 MATERIALS

- A. Corner Guards: IPC Door and Wall Protection System; division of InPro Corporation. Surface-mounted, resilient, plastic Corner Guards. Assembly consisting of snap-on resilient cover installed over a pre-slotted, continuous aluminum retainer; including mounting hardware; fabricate with degree turn to match wall condition. Located at all common areas corners.
  - 1. 2" Blunose corner guard 160 BN 4' tall.
- B. Gym Wall Pad Protection: Prowall pad 2" thick polyurethane foam covered with a 14 oz. polyurethane Class A fire rated vinyl.
  - 1. 4' wide x 6' tall x 2" thick foam/Velcro attached. Color: TBS

SECTION 124910 – WINDOW TREATMENTS – Alternate No. 3

1.1 SUMMARY

- A. Vertical Blinds.

1.2 QUALITY ASSURANCE

- A. Corded Window Covering Product Standard: WCMA A 100.1.
- B. Mockups for each form of construction.

1.3 PRODUCTS

- A. Vertical Blinds – Match existing blinds.

1.4 INSTALLATION

- A. Mounting: Head

END OF SECTION