



# MENDOCINO COUNTY

## PROJECT PLANS & SPECIFICATIONS

### Sheriff's Administration Office Remodel Rooms 117, 110, & 120

Project Address:  
951 Low Gap Road  
Ukiah, CA 95482

Contact: John C. Johnson  
Facilities & Fleet Division  
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707-234-6073

#### Scope of Work:

Provide all labor, materials and equipment to renovate and remodel rooms 117, 110, and 120 of the Sheriff's Administration Office Building (#39), located at 951 Low Gap Road in Ukiah, CA 95482. The project includes but may not be limited to the following.

- Completely remove all flooring and wall base.
- Completely remove ultra-wall type wall between room 117 and room 110.
- Provide and install new carpet tile flooring throughout per attached specification section 09600.
- Provide and install new 4" wall base throughout per attached specification section 09600.
- Provide and install new drywall, tape and texture, and paint to match existing per attached specification sections 09250 and 09900 in room 117.
- All gypsum board walls and ceilings of each room to be painted in accordance with the attached specification section 09900.
- Provide and install a new standard 120V power receptacle, along with a new data/ communications receptacle on west wall in room 117. All wiring, electrical, low voltage, and distribution included.
- Repair and/ or replace T-bar acoustic ceiling as necessary to return rooms to like new condition.
- All construction debris to be bagged before moving throughout facility and disposed of off-site. Entrance and exit of the facility shall be kept to a minimum.
- Work will take place within a secure law enforcement facility. All contractor's staff must provide state issued identification and SSN.
- The contractor is responsible for coordination of work with the appropriate departments of the County.
- Work shall be in compliance with all applicable codes and industry standards.
- Where existing is not within specification or out of code compliance notify the County Facilities Division before proceeding.
- The contractor is responsible for obtaining all permits and fulfilling the requirements thereof.
- Cleanup of construction debris and jobsite at the end of each working day is required.

#### Site Investigation:

All bidders are recommended to attend the pre-bid site inspection at the project location:  
951 Low Gap Road, Ukiah, CA 95482  
Thursday August 10, 2017 at 10:00 a.m.

#### General Notes:

1. The contractor is responsible to verify all conditions at the site, and by submitting a bid confirms that he is fully aware of the nature and location of the work and fully informed of any conditions affecting the cost and execution of the work. All inconsistencies shall be brought to the county's attention before proceeding with any work.
2. By submitting a bid, the contractor fully understands the scope of the work and has carefully checked and entered his bid price and takes full responsibility for the bid submitted.
3. These plans are intended to represent a complete project. All supervision, equipment, transportation, temporary facilities clean-up, project and site management needed to complete the work shown shall be included.
4. All work shall comply with the current version of the California Building Codes in force at the time the work begins. Report all non-conforming existing conditions to the County.

## SECTION 09250

### GYPSUM BOARD

#### PART 1 – GENERAL

##### 1.1 SUMMARY

- A. Section includes providing gypsum board construction complete with accessories, as required.
- B. Related Sections: The completion of the work described in this Section may require work in or coordination with other Sections of these Specifications. Contractor and Subcontractor shall be responsible for identifying and including all related work in other Sections of these Specifications and/or drawings necessary for a complete installation of the work described in this Section. These related Sections include but are not limited to the following:
  - 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
  - 2. Section 09900 - Painting.

##### 1.2 SYSTEM DESCRIPTION

- A. Design Requirements:
  - 1. Gypsum board throughout the Project, including accessories and fasteners, shall be produced by one manufacturer.
  - 2. Construction Tolerances:
    - a. Gypsum board surfaces to be painted shall have no measurable variation in any 2' direction and a maximum variation of 1/8" between studs when a straightedge is laid on the surface in any direction.
    - b. Shim work as required to comply with specified tolerances.
    - c. Do not exceed 1/16" offset between planes of abutting sheets at edges or ends.

##### 1.3 QUALITY ASSURANCE

- A. Manufacturer: Gypsum wallboard, including accessories and fasteners, shall be the products of the same manufacturer.
- B. Gypsum wallboard work shall comply with ASTM C840, and UBC Chapter 25 unless otherwise indicated or specified.
- C. Installation and finishing of gypsum wallboard shall comply with GA-216.
- D. Fire-Resistance Ratings: Where gypsum wallboard systems with fire-resistance ratings are indicated, provide materials and installations identical with those of applicable assemblies tested in accordance with ASTM E119 by fire testing laboratories acceptable to authorities having jurisdiction.
- E. Allowable Tolerances:

1. Gypsum wallboard surfaces shall have no measurable variation in any 2' direction and a maximum variation of 1/8" in 10' when a straightedge is laid on the surface in any direction. Specified tolerances apply to both plumbness of walls and levelness of ceilings.
  2. Comply with specified tolerances.
  3. Do not exceed 1/16" offset between planes of abutting sheets at edges or ends.
- F. All materials shall comply with the requirements of Air Quality Management District (AQMD) Rule 1168 governing the emission of Volatile Organic Compounds (VOC's)

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store materials inside under cover and stack flat.
- B. Stack gypsum board so that long lengths are not over short lengths.
- C. Gypsum board shall not be stored or stacked on floors of new work in excess of 40 pounds per square foot equivalent loading.
- D. Gypsum board which has been exposed to rain and wet conditions shall be considered defective and shall be removed from the site.

#### 1.5 PROJECT CONDITIONS

- A. Environmental Requirements:
  1. Temperature: During cold weather, in areas receiving gypsum board installation, maintain temperature range between 55° and 70° F for 24 hours before, during, and after gypsum board and joint treatment application.
  2. Ventilation:
    - a. Provide ventilation during and following adhesives and joint-treatment applications.
    - b. Use temporary air circulators in enclosed areas lacking natural ventilation.
    - c. Under slow drying conditions allow additional drying time between coats of joint treatment.
    - d. Protect installed materials from drafts during hot, dry weather.
- B. Protection: Protect adjacent surfaces against damage and stains.

### PART 2 – PRODUCTS

#### 2.1 MATERIALS

- A. Type X: ASTM C36, 5/8" x 4' wide at all partitions, unless otherwise noted.
- B. Type WR: ASTM C630, 5/8" x 4' wide.
- C. Type L: 1/4" x 4' wide for veneer.
- D. Fasteners: Philips head with bugle shape, Type S, conforming to ASTM C1002.

- E. Finish Coat: US Gypsum "Sheetrock Finish Coat", Hamilton "Prep Coat" or accepted equal.
- F. Metal Reinforcements and Casing: Electrogalvanized or zinc-coated as specified.
  - 1. Exterior Corner: Fine-mesh expanded steel wing type, zinc-coated in conformance with ASTM A525, G90 coating designation, or ASTM A164, Type GS.
  - 2. Intersection of Gypsum Board with Dissimilar Material: USG No. 200-B metal trim or accepted equal.
  - 3. Edge Trim: "L," "LK," or "LC" casing beads.
  - 4. Expansion Joints: USG No. 093 or accepted equal.
- G. Joint-Treatment Materials:
  - 1. Joint Tape: ASTM C475.
  - 2. Ready-Mixed Joint Compounds: Vinyl formulation complying with ASTM C475. Provide the following types as required:
    - a. Joint compounds for taping and topping.
    - b. All-Purpose joint compound.
    - c. Joint compound for water-resistant board.
- H. Miscellaneous Items: Furnish other items required to complete the installation.

### PART 3 – EXECUTION

#### 3.1 EXAMINATION

- A. Check framing for accurate spacing and alignment.
- B. Verify that spacing of installed framing does not exceed maximum allowable for thickness of gypsum board to be used.
- C. Do not proceed with installation of gypsum board until deficiencies are corrected and surfaces to receive gypsum board are acceptable.
- D. Protrusions of framing, twisted framing members, or unaligned members shall be repaired before installation of gypsum board is started.
- E. Clean partition cavities prior to installation of gypsum board.

#### 3.2 APPLICATION OF GYPSUM BOARD

- A. General: Work shall comply with applicable requirements of GA-216 (ASTM C840), except where more stringent requirements are specified; by local codes; or by manufacturer of gypsum board.
  - 1. Apply water-resistant gypsum board where indicated on the Drawings.
  - 2. Neatly fit and stagger end joints.

3. Make joints occur on different studs at opposite sides of partition.
  4. Cut and fit neatly around outlets and switches.
  5. Erection technique shall result in plumb and straight surfaces with no waves or buckles, free of unevenness at joints.
  6. Brush cut edges and penetrations of water-resistant gypsum board with thinned water-resistant (W/R) compound.
- B. Vertical and Horizontal Application: Gypsum drywall shall be applied with the long edge parallel to the framing members.
1. Joints Parallel to Framing Members: All joints shall occur over framing members.
  2. Where multiple layer of gypsum board construction occur, the joints shall be staggered.
  3. Joints Perpendicular to Framing Members: Joints should be avoided where possible; where single layers occur, provide continuous 1" wide, 26-gauge metal tape between framing member and wallboard to close joint.
- C. Multiple Layers: Where multiple layers of gypsum wallboard occur, do not glue laminate. Screw successive layer of wallboard to framing members only; use screws of sufficient length to penetrate framing members and assume a permanent solid connection thereto.
- D. Staggered Joints: Stagger all joints of gypsum drywall where multiple layers occur. Minimum distance between joints of staggered layers shall be equal to the typical distance between framing members.
- E. Fastening:
1. Attach gypsum board with fasteners as specified.
  2. Space fasteners in accordance with GA-216 recommendations.
  3. Drive screws with power screwdriver recommended by gypsum board manufacturer.
  4. Do not hammer-drive screws.
  5. Do not break through paper surface of gypsum board.
  6. Set fastener heads slightly below surface of gypsum board.
  7. Stagger fasteners opposite each other on adjacent ends or edges.
  8. Omit fasteners at edges where metal edge trim will be installed.
  9. Provide "floating" interior-angle construction for partition/walls if recommended by manufacturer of gypsum board.
    - a. Do not float ends at rated construction.
- F. Metal Trim: The Drawings do not purport to show all metal trim needed for a complete and proper installation. Study the Drawings and Specifications, and provide all metal trim required for a complete and proper installation; generally as follows:

1. Apply trim at exterior corners and at interior corners where gypsum board intersects metal or other dissimilar materials.
  2. Install in longest lengths practicable.
  3. Run trim straight and square with planes.
  4. Expansion Joints: Maximum joint size ½" faced with metal control joint accessory.
    - a. Ceilings: Install where areas exceed 2,500 sq. ft. Distance between ceiling expansion joints shall not exceed 50' in either direction.
      - 1) Back with continuous furring channels each side spaced 2-1/4" apart centered on break.
      - 2) Fire-Rated Ceilings: Install 2" wide continuous strip of gypsum board between channels of same thickness as ceiling board.
        - a) Butt strip against one channel to permit ¼" clearance.
        - b) Secure butted side to ceiling board with adhesive.
    - b. Partitions: Install where distances exceed 25' and are not broken by doors or windows.
      - 1) Back with double studs.
      - 2) Maintain integrity of rated partition with gypsum board or mineral fiber construction as required.
  5. Edges: Apply applicable shape metal edge trim at exposed edges of gypsum board and where otherwise shown.
    - a. Gypsum Board Abutting Other Materials: Install edge trim with 1/8" clearance to allow for caulking.
    - b. Apply neoprene tape to assure sealed joints at abutting surfaces.
      - 1) Install in longest lengths practicable.
      - 2) Adhere to edge trim prior to installation of trim.
  6. External Corners: Apply metal corner beads at external corners in single lengths.
- G. Mechanical Contact Between Wall Sections: When more than one set of studs is used in a partition, there shall be no mechanical or structural contact between the various partition wall sections, except as indicated in the Drawings.
- H. Wall Penetrations: Avoid all wall penetrations wherever possible. Any unavoidable penetrations of the gypsum wallboard by piping, conduits, ducts, etc. shall be done in accordance with the Drawings, or if not shown, in such a manner as to maintain the sound and vibration control characteristics inherent in the basic wall or ceiling being penetrated.

### 3.3 TAPING AND FINISHING

- A. General: Where single layer of gypsum wallboard occurs, tape all joints. Where multiple layers of wallboard occur, tape outer joints only. All taping and finishing shall be executed in accordance with the drywall manufacturer's recommendations.
- B. Apply finishing compounds in accordance with manufacturer's directions.

1. Do not apply tape and joint compound over joints containing acoustical sealant until the sealant has completely cured.
- C. Center tape over joints and embed in uniform layer of joint compound of sufficient width and depth to provide form and complete bond.
  1. Apply skim coat while embedding tape.
  2. At water-resistant gypsum board, fill fastener heads, penetrations, and joints with water-resistant (W/R) compound.
- D. Treat angles with reinforcing tape forced to conform to adjacent surfaces and straight, true angles.
- E. Provide minimum 24 hours' drying time between applications of compounds.
- F. Apply coat of finishing compound over joint compound and tape.
  1. Spread evenly and feather out beyond edge of board.
  2. After first finishing coat is thoroughly dry, cover with second coat with edges feathered out slightly beyond the preceding coat.
- G. Give dimples at fastener heads and marred spots on surface of gypsum board one coat joint compound and two coats finishing compound, applied in same manner as for joints specified above.
- H. Conceal flanges of metal reinforcement with minimum two coats compound.
  1. Extend compound 8" to 10" each side of metal nosing.
- I. After each application of joint or finishing compound has dried, lightly sand joints.
  1. Leave gypsum board and treated areas uniformly smooth and ready for painting or other decoration.

### 3.4 PROTECTION OF FINISHED WORK

- A. Provide proper procedures for protection of completed gypsum board from damage or deterioration until final acceptance of the Project.

END OF SECTION



## SECTION 09600

### COUNTY STANDARD FLOORING PRODUCTS

#### PART 1 – GENERAL

##### 1.1 DOCUMENTS

- A. The General Conditions, Supplementary Conditions and applicable portions of Division 1 of the Specifications are part of this Section.

##### 1.2 SCOPE

- A. Mendocino County has selected specific flooring products and adhesives as county standards to ensure uniformity in our maintenance and replacement programs. Unless specifically stated, no other products will be accepted.

##### 1.3 JOB CONDITIONS

- A. Inspection of Surfaces: Before installing flooring materials, Contractor shall inspect the surfaces to receive materials. Contractor shall notify the County, in writing, of any defects or conditions that will prevent a satisfactory resilient floor covering installation.

##### 1.4 SUBMITTALS

- A. Submit samples for selection of colors and patterns. Samples shall be labeled, indicating color or pattern, gauge and manufacturer. Submit samples in accordance with General Conditions.
- B. Extra Material: Provide Owner with one box of tile for each 1,000 square feet of resilient tile or 5% of the quantity used from the same run and lot for each color used as installed in the building.
- C. Furnish Owner brochures of standard maintenance procedure.

##### 1.5 GUARANTEE/WARRANTY

- A. Contractor shall, and hereby does warrant, and General Contractor shall, and hereby does guarantee that all Work executed under this Section of the Specifications be free from defects of materials and workmanship for a period of one (1) year from the date of final acceptance of this work.

#### PART 2 – PRODUCTS

##### 2.1 MATERIALS

- A. Resilient tile shall be the county standard product, Armstrong Standard Excelon vinyl 12" x 12" x 1/8" Imperial Texture, Pearl White #51803 unless color selection is noted on the plans. No substitutions.
- B. Slip resistant tile shall be the county standard product, Armstrong Safety Zone Slip-retardant vinyl 12" x 12" x 1/8", Stone Beige #57005 where specified unless color selection is noted on the plans. No substitutions.

- C. Seamless flooring shall be the County standard Armstrong Connection Corlon Inlaid Sheet Vinyl. Color selection shall be 88713 unless noted otherwise No substitutions.
- D. Carpet shall be the county standard, Shaw Contract Group. Style Name: Charisma, Style Number 59561, Carpet Tiles, color; legend, unless color selection is noted on the plans. No substitutions.
- E. Resilient base shall be the county standard Burke Base Thermoset Rubber type TS wall base, 4" coved, 523 brown black. No substitutions.
- F. Edge strips shall be Mercer or equal, color as selected. Reducer to be Mercer Stock No. 73A.
- G. Underlayment as needed or required to assure a quality blemish-free installation per the manufacturer's recommendation.
- H. Adhesives. The following adhesive products have been selected as the county standard products for installing any of the above flooring products. No substitutions.
  - 1. Vinyl Tile adhesive shall be Mapei Ultrabond ECO 300 Professional Solid Vinyl Flooring Adhesive.
  - 2. Carpet adhesive shall be Mapei Ultrabond ECO 85 Standard Quick-Grab Carpet Adhesive.
  - 3. Resilient base adhesive shall be Mapei Ultrabond ECO 575 Premium Wall Base Adhesive.
  - 4. Carpet Tile adhesive shall be Shaw EcoWorx 5000 Series modular carpet tile adhesive.

## PART 3 – EXECUTION

### 3.1 PREPARATION

- A. Depressions and projections that may be visible in the finished work shall be filled and removed. Foreign matter that may destroy bond shall be removed.
- B. Flooring shall not be laid until a sufficient length of time has elapsed after the heat has been turned on to ensure that the moisture in or under the slab has vaporized sufficiently and that the installation will not be affected.
- C. Starting of work by flooring contractor will be considered as acceptance of existing conditions as suitable for its work.

### 3.2 INSTALLATION

- A. All materials shall be installed in strict conformance with manufacturer's recommendations.
- B. Edge strips are required in openings to rooms with flooring change.

### 3.2 CLEAN UP

- A. Remove all debris resulting from the work of this Section.

## END OF SECTION

09900  
PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes surface preparation and the application of paint systems on interior and exterior substrates.
  - 1. Steel.
  - 2. Shop primed steel.
  - 3. Galvanized metal.
  - 4. Wood.
  - 5. Gypsum board.

1.3 DEFINITIONS

- A. Gloss Level 1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.
- B. Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
- C. Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.
- D. Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
- E. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- F. Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
- B. Samples for Verification: For each type of paint system and each color and gloss of topcoat.
  - 1. Submit Samples on rigid backing, 8 inches square.
  - 2. Step coats on Samples to show each coat required for system.
  - 3. Label each coat of each Sample.
  - 4. Label each Sample for location and application area.

- C. Product List: **All interior paint products must meet approval of County Risk Management for odor and VOC content.** For each product indicated, include the following:
1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
  2. Printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
  3. VOC content.
  4. MSDS.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
1. Maintain containers in clean condition, free of foreign materials and residue.
  2. Remove rags and waste from storage areas daily.

#### 1.6 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 degrees F.
- B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 degrees F above the dew point; or to damp or wet surfaces.

### PART 2 - PRODUCTS

#### 2.1 PAINT, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."
- B. Material Compatibility:
1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- C. Low-Emitting Materials: Interior paints and coatings shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- D. Colors: As selected by Architect from manufacturer's full range.

## 2.2 METAL PRIMERS

- A. Exterior Primer, Alkyd, Anti-Corrosive for Metal: MPI #79.
- B. Interior Primer, Alkyd, Quick Dry, for Metal: MPI #76.

## 2.3 WOOD PRIMERS

- A. Exterior Primer, Alkyd for Exterior Wood: MPI #5.

## 2.4 SOLVENT-BASED PAINTS

- A. Alkyd, Quick Dry, Metal, Semi-Gloss (Gloss Level 5): MPI #81.
- B. Alkyd, Exterior, Wood or Metal, Semi-gloss, (Gloss Level 5): MPI #94.
- C. Alkyd, Exterior Flat (Gloss Level 1): MPI #8.

## 2.5 EXTERIOR LATEX PAINTS

- A. Latex, Exterior, Flat (Gloss Level 1): MPI #10.
- B. Latex, Exterior, Low Sheen (Gloss Level 3-4): MPI #15.
- C. Latex, Exterior, Semi-gloss (Gloss Level 5): MPI #11

## 2.6 INTERIOR PRIMERS/SEALERS

- A. Primer Sealer, Interior, Institutional Low Odor/VOC: MPI #149.
- B. Primer, Latex, for Interior Wood: MPI #39.

## 2.7 INTERIOR LATEX PAINTS

- A. Latex, Interior, Institutional Low Odor/VOC, Flat (Gloss Level 1): MPI #143
- B. Latex, Interior, Institutional Low Odor/VOC Egg-shell (Gloss Level 3): MPI #145
- C. Latex Interior, Institutional Low Odor/VOC, Semi-gloss (Gloss Level 5): MPI #147

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.

- B. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Proceed with coating application only after unsatisfactory conditions have been corrected.
  - 1. Application of coating indicates acceptance of surfaces and conditions.

### 3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
  - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
  - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer.
- E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
- G. Wood Substrates:
  - 1. Scrape and clean knots. Before applying primer, apply coat of knot sealer recommended in writing by topcoat manufacturer for exterior use in paint system indicated.
  - 2. Sand surfaces that will be exposed to view, and dust off.
  - 3. Prime edges, ends, faces, undersides, and backsides of wood.
  - 4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.

### 3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Manual."
  - 1. Use applicators and techniques suited for paint and substrate indicated.
  - 2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
  - 3. Paint both sides and edges of exterior doors and entire exposed surface of exterior door frames.
  - 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
  - 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- E. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
  - 1. Paint the following work where exposed to view:
    - a. Equipment, including panelboards and switch gear.
    - b. Uninsulated metal piping.
    - c. Uninsulated plastic piping.
    - d. Pipe hangers and supports.
    - e. Metal conduit.
    - f. Plastic conduit.
    - g. Tanks that do not have factory-applied final finishes.

### 3.4 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.

- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

### 3.5 EXTERIOR PAINTING SCHEDULE

- A. Steel Substrates:
  - a. Prime Coat: Primer, alkyd, anticorrosive for metal, MPI #79.
  - b. Intermediate Coat: Exterior alkyd enamel matching topcoat.
  - c. Topcoat: Alkyd, Quick Dry, Semi-gloss, MPI #81.
- B. Galvanized-Metal Substrates:
  - a. Prime Coat: Primer, galvanized metal, as recommended in writing by topcoat manufacturer for exterior use on galvanized-metal substrates with topcoat indicated.
  - b. Intermediate Coat: Exterior alkyd enamel matching topcoat.
  - c. Topcoat: Alkyd, exterior, flat (Gloss Level 5), MPI #8.
- C. Wood Substrates: Including wood trim, doors, and wood siding.
  - a. Prime Coat: Primer, alkyd for exterior wood, MPI #5.
  - b. Intermediate Coat: Latex, Exterior Matching Topcoat.
  - c. Topcoat: Latex, Exterior, Low Sheen, MPI #15.

### 3.6 INTERIOR PAINTING SCHEDULE, WATER BASED COMPOUND PAINT

- A. Steel Substrates:
  - a. Prime Coat: Primer, quick dry, for metal, MPI #76.
  - b. Intermediate Coat: interior, matching topcoat.
  - c. Topcoat: Alkyd, Quick Dry, Semi-gloss, MPI #81
  - d. Low VOC Topcoat: Latex, Interior, Institutional Low Odor/VOC Semi-gloss, MPI #147.
- B. Gypsum Board Substrates:
  - a. Prime Coat: Primer/Sealer Low Odor/VOC: MPI #149.
  - b. Intermediate Coat: Latex, Interior, Low Odor/VOC matching Topcoat.
  - c. Topcoat: Latex, Interior, Low Odor/VOC, Egg-shell, MPI #145 (unless otherwise noted)
- C. Interior Wood Substrates:
  - a. Prime Coat: Wood Primer, MPI # 39
  - b. Intermediate Coat: Latex, Interior, Low Odor/VOC matching Topcoat.
  - c. Topcoat: Latex, Interior, Low Odor/VOC, Semi-gloss, MPI #147.

END OF SECTION