PART 1 GENERAL 1.1 SECTION INCLUDES: Hardware for wood and hollow steel doors. Lock Cylinders for gates, folding partitions, wire cages and doors. Thresholds Gaskets 1.2 REFERENCES ANSI A117.1 Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People. ANSI/NFPA 80 Fire Doors and Windows. AWI Architectural Woodwork Institute. BHMA Builders' Hardware Manufacturers Association. DHI Door and Hardware Institute. Florida Accessibility Code for Building Construction, Chapter 11, FBC. NAAMM - National Association of Architectural Metal Manufacturers. NFPA 101 - Life Safety Code. SDI - Steel Door Institute. Florida Building Code 2004. ASCE 7-02 - Minimum Design Loads for Buildings and other Structures 1.3 COORDINATION Coordinate work of this Section with other directly affected Sections involving manufacturers of any internal reinforcement for door hardware. 1.4 QUALITY ASSURANCE Manufacturers: Companies specializing in manufacturing door hardware with minimum five years Α. experience. B. Hardware Supplier: Company specializing in supplying institutional door hardware with minimum five years documented experience, approved by manufacturer Hardware Supplier Personnel: Employ an Architectural Hardware Consultant (AHC) to assist in the work of this Section. 1.5 REGULATORY REQUIREMENTS Conform to the Florida Building Code for requirements applicable to both fire rated doors / frames and accessibility for the physically disabled. B. Conform to the applicable sections of NFPA 101. 1.6 CERTIFICATIONS Architectural Hardware Consultant shall inspect complete installation and certify that hardware and Α. installation has been furnished and installed in accordance with manufacturer's instructions and as specified herein. Provide two copies of certifications to the Architect. SUBMITTALS 1.7 Submit schedule and product data under provisions of Section 01300. Indicate locations and mounting heights of each type of hardware. Provide product data on specified hardware. Submit samples under provisions of Section 01300. Submit samples of hinge, latch set, exit device, door closer, threshold, illustrating style, color and Samples: Shall be incorporated in the Work. Submit manufacturer's parts lists, templates, and installation instructions under provisions of Section 01300. Submit manufacturer's certificate under provisions of Section 01400 that fire rated hardware meets Η. or exceeds specified requirements. OPERATION AND MAINTENANCE DATA 1.8 Submit operation and maintenance data under provisions of Section 01700. Include data on operating hardware, and inspection procedures related to preventative maintenance. DELIVERY, STORAGE, AND HANDLING 1.9 Deliver products to site under provisions of Section 01600. Store and protect products under provisions of Section 01600. Package hardware items individually; label and identify package with door opening code and hardware group to match hardware schedule D. Deliver all final keys and construction key voiding devices to Owner's Lock Department by security shipment direct from hardware supplier. Delivery Address: Verify with Owner Deliver two copies of factory key biting schedule to the Owner's Lock Department in conjunction with delivery of final keys. Protect hardware from theft by cataloging and storing in secure area. 1.10 WARRANTY Provide a minimum of a five-year warranty period under provisions of Section 01700. Warranty: Include coverage of door closers, locksets, latch sets, exit devices hinges and all items listed in the hardware schedule 1.11 MAINTENANCE MATERIALS Provide special wrenches and tools applicable to different or special hardware component. Provide maintenance tools and accessories supplied by hardware component manufacturer. PART 2 PRODUCTS ACCEPTABLE MANUFACTURERS See Hardware Groups and specifications listed on door schedule. 2.2 HINGES Size: 4¹/₂" wide x 4¹/₂" high, FBB1191 at exterior and FBB1291 at interior locations. No less than three hinges on any door and add a reinforcing pivot on all doors over 3' 0" wide. Ball Bearing hinges on doors with door closers and provide Non-Removable Pin type on all exterior swina doors. 2.3 LOCKSETS A. Per Hardware Groups DOOR CLOSERS 2.4 A. Per Hardware Groups DOOR TRIM 2.5 All push plates, pull plates and kick plates manufactured of .050 stainless steel. Push plates and pull plates 4" wide x 16" high. Kick plates 10" high x 2" less than door width. DOOR STOPS 2.6 Door stops of the following types: Α. 2.7 FASTENINGS All screws of matching finish to their product and to manufacturer's standards for that item and its intended use All surface mounted hardware, use manufacturers' supplied sex bolts for through bolting of hardware. В. 2.8 KEYING Pre-Order Meeting: Hardware Supplier will meet with a representative of the Owner's Lock Department and Department Head to establish a keying schedule before

PART 1 - GENERAL 1.01 QUALITY ASSURANCE

Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 for Class A products; Flame Spread: 25 or less; Smoke Developed: 50 or less. Single source Responsibility for Ceiling Units: Obtain each type of acoustical ceiling unit from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work.

C. Single source Responsibility for Suspension System: Obtain each type of suspension system from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work

1.02 DELIVERY, STORAGE, AND HANDLING Deliver acoustical ceiling units and suspension system components to Project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes. Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.

1.03 PROJECT CONDITIONS Environmental Limitations: Do not install interior acoustical ceilings until space is enclosed and weatherproof, wet work in space is completed and nominally dry, work above ceilings is complete, and ambient conditions of temperature and humidity will be continuously maintained at values near those indicated for final occupancy.

PART 2- PRODUCT 2.01 ACOUSTIC ACOUSTICAL CEILING UNITS, GENERAL

Standard for Acoustical Ceiling Units: Provide manufacturers' standard units of configuration indicated that comply with ASTM E 1264 classifications as designated by reference to types, patterns, acoustical ratings, and light reflectances, unless otherwise indicated. Colors and Patterns: TO MATCH EXISTING В.

2.02 METAL SUSPENSION SYSTEMS, GENERAL Standard for Metal Suspension Systems: Provide manufacturer's standard metal suspension systems of types, Α structural classifications, and finishes indicated that comply with applicable ASTM C 635 requirements. Finishes and Colors: Provide manufacturer's standard factory applied finish for type of system indicated. Provide B. products to match approved samples, including existing units to remain if indicated. Attachment Devices: Size for 5 times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise

indicated. Wire Hangers, Braces, and Ties: ASTM A 641M/ASTM A 641, Class 1 zinc coating, soft temper sized so that stress D. at 3 times hanger design load (ASTM C 635. Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 0.106-inch diameter wire.

Edge Moldings and Trim: Metal or extruded aluminum of types and profiles indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that fit type of edge detail and suspension system indicated. Provide column surround trim at round columns.

2.03 NON-FIRE RESISTANCE RATED DIRECT HUNG SUSPENSION SYSTEMS Wide Face Capped Double Web Steel Suspension System: Main and cross runners roll formed from prepainted or electrolytic zinc coated cold rolled steel sheet, with prefinished 15/16-inch wide metal caps on flanges. Structural Classification: Intermediate Duty System unless otherwise indicated.

PART 3 - EXECUTION 3.01 PREPARATIO PREPARATION

Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of A. each ceiling.

3.02 INSTALLATION

General: Install acoustical ceiling systems to comply with installation standard referenced below, per Α. manufacturer's instructions and CISCA "Ceiling Systems Handbook". Standard for Installation of Ceiling Suspension Systems: Comply with ASTM C 636. Comply with reflected ceiling plans. Avoid use of less than half width units at borders. Suspend ceiling hangers from building structural members and as follows: Install hangers plumb and free from contact with insulation, fireproofing, or other objects within ceiling space that are not part of supporting structural or ceiling suspension system. Provide and install supplemental

suspension members and hangers in form of trapezes, bars, angles, channels, rod hangers, or equivalent devices. If not shown, size supplemental suspension members and hangers to support ceiling loads within performance 2. Secure wire hangers by looping and wire tying either directly to structures or to inserts, eye screws or other

fail due to age, corrosion, or elevated temperatures. 3. Secure to structure, including intermediate framing members, by attaching to inserts, eye screws or other devices that are secure and appropriate for structure to which hangers are attached as well as for type of hanger involved, and in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.

4. Space hangers not more than 48 inches along each member supported directly from hangers, unless otherwise shown, and provide hangers not more than 8 inches from ends of each member. 5. Install edge moldings of type indicated at perimeter of acoustical ceiling area and where necessary to

conceal edges of acoustical units. Scribe and cut panels to fit accurately at borders and at penetrations.

Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touchup of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 09511

orders are placed.

Locks: Keying as established in pre-order meeting with Hardware Supplier. All locks to be Construction Master Keyed using the split key method.

All locks factory keyed to Owners restricted keyway.

- 2.9 FINISHES A. Per Hardware Group
- 2.10 HARDWARE GROUPS
- SEE DOOR SCHEDULE

SECTION 08710 - FINISH HARDWARE

END OF SECTION 08710

limits established by referenced standards. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, counter splaying, or other equally effective means. devices that are secure and appropriate for substrate, and in a manner that will not cause them to deteriorate or otherwise

3.03 CLEANING

SECTION 09511 - SUSPENDED ACOUSTICAL CEILING SYSTEM

PART 1 - GENERAL 1.01 REFERENCES

- ASTM D16 Definitions of Terms Relating to Paint, Varnish, Lacquer, and Related Products.
- ASTM D2016 Test Method for Moisture Content of Wood. NACE (National Association of Corrosion Engineers) - Industrial Maintenance Painting.
- NPCA (National Paint and Coatings Association) Guide to U.S. Government Paint Specifications.
- Paint Certified Product List 12/95, Florida Department of Agriculture and Consumer Services. PDCA (Painting and Decorating Contractors of America) - Painting - Architectural Specifications Manual.
- SSPC (Steel Structures Painting Council) Steel Structures Painting Manual.
- 1.02 SUBMITTALS

Make submittals as requested by the Architect. Α.

1.03 QUALIFICATIONS

Manufacturer: Company specializing in manufacturing the products specified in this section with minimum five years do Applicator: Company specializing in performing the work of this section with minimum five years documented experienc

- 1.04 REGULATORY REQUIREMENTS
- Unless otherwise indicated, a minimum Class B Interior Finish: Flame spread 26-75, Smoke Developed 0-450, shall be 1.05 FIELD SAMPLES
- Provide a complete room field sample illustrating coating color, texture, and finish. Provide exterior field sample at an outside corner condition with finish extending minimum 10 feet both directions and se
- Locate where directed by Architect and Owner. Accepted sample may remain as part of the work.
- 1.06 DELIVERY, STORAGE, AND HANDLING

Deliver products to site in sealed and labeled containers; inspect to verify acceptability. Container label to include manuf Α. paint, brand name. lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, co mixing and reducing.

Store paint materials at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated a manufacturer's instructions.

1.07 ENVIRONMENTAL REQUIREMENTS

Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the pain Α. Do not apply exterior coatings during rain or when relative humidity is outside the humidity ranges required by the paint Minimum Application Temperatures for Latex Paints: 45 degrees F for interiors; 50 degrees F for exterior; unless require manufacturer's instructions

- Minimum Application Temperature for Varnish and Stain Finishes: 65 degrees F for interior or exterior, unless required instructions.
- Provide lighting level of 80 ft candles measured mid-height at substrate surface. Dispose of waste in accordance with applicable regulations.
- PART 2 PRODUCTS
- 2.01 MATERIALS

Coatings: Ready mixed, except field catalyzed coatings. Process pigments to a soft paste consistency, capable of being dispersed to a homogeneous coating; good flow and brushing properties; capable of drying or curing free of streaks or sags. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but req finishes specified, of commercial quality. C. Patching Materials: Latex filler.

2.02 FINISHES A. Refer to finish schedule on plans for finish, color & material

PART 3 - EXECUTION

3.01 EXAMINATION

- Test shop applied primer for compatibility with subsequent cover materials. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content
- following maximums:
- Plaster and Gypsum Wallboard: 12 percent. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
- Interior Wood: 15 percent, measured in accordance with ASTM D2016
- Exterior Wood: 15 percent, measured in accordance with ASTM D2016.
- Concrete Floors: 8 percent.
- 3.02 PREPARATION
- Remove or mask electrical plates, hardware, light fixture trim, escutcheons and fittings prior to preparing surfaces or finis Correct defects and clean surfaces which affect work of this section. Remove existing coatings that exhibit loose surface
- Seal with shellac any marks which may bleed through surface finishes. Impervious Surfaces: Remove mildew by scrubbing with solution of trisodium phosphate and bleach. Rinse with clean
- Aluminum Surfaces Scheduled for Paint Finish: Remove surface contamination by steam or high pressure water. Remove and solvent washing. Apply etching primer immediately following cleaning. Asphalt, Creosote or Bituminous Surfaces Scheduled for Paint Finish: Remove foreign particles to permit adhesion of f
- compatible sealer or primer. Insulated Coverings: Remove dirt, grease, and oil from canvas and cotton.

Concrete Floors: Remove contamination, shot- blast & clean. All HVAC return air vents shall be covered with 10 mil thic Copper Surfaces Scheduled for a Paint Finish: Remove contamination by steam, high pressure water, or solvent wash immediately following cleaning.

- Copper Surfaces Scheduled for a Natural Oxidized Finish: Remove contamination by applying oxidizing solution of cop chloride in acetic acid. Rub on repeatedly for required effect. Once attained, rinse surfaces with clear water and allow to dry. Gvpsum Board Surfaces: Fill minor defects with filler compound. Spot prime defects after repair
- Galvanized Surfaces: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer. Concrete and Unit Masonry Surfaces Scheduled to Receive Paint Finish: Remove dirt, loose mortar, scale, salt or alkali Μ.
- matter. Remove oil and grease with a solution of trisodium phosphate; rinse well and allow to dry. Remove stains caused by wea metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry. Plaster Surfaces: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush Wash and neutralize high alkali surfaces.

O. Uncoated Steel and Iron Surfaces: Remove grease, mill scale, weld splatter, dirt and rust. Where heavy coatings of sca power tool wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring nuts are similarly cleaned. Spot prime paint after repairs.

P. Shop Primed Steel Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touchup patch surfaces with solvent. Prime base steel surfaces. Q. Interior Wood Items Scheduled to Receive Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and

Fill nail holes and cracks after primer has dried; sand between coats. R. Interior Wood Items Scheduled to Receive Transparent Finish: Wipe off dust and grit prior to sealing, seal knots, pitch s

nail holes and cracks after primer has dried; sand lightly between coats with sealer. Fill Exterior Wood Scheduled to Receive Paint Finish: Remove dust, grit and foreign matter. Seal knots, pitch streaks, and exterior caulking compound after prime coat has been applied holes with tinted T. Wood and Metal Doors Scheduled for Painting: Seal top and bottom edges with primer.

3.03 APPLICATION

A. Paint all exposed, new non-factory finished items and surfaces included in the Work of the project as shown, indicated, items and surfaces as required to provide a completely finished project. Apply products in accordance with manufacturer's instru existing surfaces.

- Do not apply finishes to surfaces that are not dry.
- Apply each coat to uniform finish
- Apply each coat of paint slightly darker than preceding coat unless otherwise approved. Sand wood and metal lightly between coats to achieve required finish.
- Vacuum clean surfaces free of loose particles. Use tack cloth just prior to applying next coat.
- Allow applied coat to dry before next coat is applied.
- Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surf

Prime back surfaces of interior and exterior woodwork with primer paint. Prime concealed surfaces of interior woodwork scheduled to receive stain or varnish finish with gloss varnish reduced 25 When applying the specified Aqua-pon 2 part epoxy floor paint it shall be completed on non-production work hours. Frida hrs.

3.05 CLEANING

Collect cotton and cloth waste material which may constitute a fire hazard, place in closed metal containers and remove Α. 3.06 PAINT TYPE AND NUMBER OF COATS

A. The following painting schedules are intended to identify the type of finishes which are required for the various surfaces, to which each finish is to be applied. Refer to Room Finish Schedule

To define requirements for quality, function, size, gauges, grades, textures, and color, the following list of materials desig brands, types, and number of coats required; and other requirements that are to be furnished to conform to the requirements of t Where specific finishes are indicated by code designation, it shall specifically refer to the following identified types of coa The primer indicated under Material Identification is intended for the particular substrate surface specified. Where the sa scheduled, but for another substrate, provide the proper primer compatible with substrate and the finish

E. Where the substrate has a compatible and satisfactory prime coat already on it, the prime coat specified for the number Test prime coat for compatibility before applying additional coats. F. Mils thickness specified herein are dry film thickness per coat.

3.08 INTERIOR PAINTING SCHEDULE

A. All Surfaces:

1st Coat: Primer 2nd & 3rd Coats:Finish Coat

B. Refer to finish schedule on plans for finish & color.

END OF SECTION 09900

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	Eugene R Fagan III Architect #11668
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25 percent with mineral spirit iday @ 1800 hrsSunday 1800	Sea Ya Holdings
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