

01 23 00 - ALTERNATES

- 1.1 SUMMARY
 - A. This Section includes administrative and procedural requirements for Prime Contract (Owner / General Contractor) AD and Deduct Alternates during the Bid and Construction Process.
- 2.1 SCHEDULE OF ALTERNATES:
 - A. Alternate #1: Add Elevator 104 as described on the Drawings and in Division 14 Section "Residential Electrical Elevator."
 - B. Alternate #2: Add Bar at Media Room 100: Shall include casework, countertops, sink, and all necessary hardware.
 - C. Alternate #3: Storage 110: Add screen wall, walls, shelving, sliding doors and all required hardware not indicated in Contract Document as Base Bid Work as well as shower walls, tile, and all required hardware and trim.
 - D. Alternate #4: Add Sustainable Design Requirements per 01 81 13.
 - E. Alternate #5: Shade Porch 211: Add removable Screen Frames. Work to include rooms 300, 301, 302, and 307.
 - F. Alternate #6: Shade Porch 213: Add structural trusses as shown on Drawings.

01 81 13 - SUSTAINABLE DESIGN REQUIREMENTS (Alt. #4)

- 1.1 SUMMARY
 - A. This Section includes general requirements and procedures for compliance with certain USGBC LEED prerequisites and credits needed for Project to obtain LEED - Silver certification based on LEED for Homes. Commissioning services related to and required by this Section will be provided by the Owner's LEED Consultant under separate contract with the Owner.
- 2.1 RECYCLED CONTENT OF MATERIALS
 - A. Credit MR 4.1 and Credit MR 4.2: Provide building materials with recycled content such that post-consumer recycled content plus one-half of pre-consumer recycled content constitutes a minimum of 20 percent of cost of materials used for Project.
 - 1. Cost of post-consumer recycled content of an item shall be determined by dividing weight of post-consumer recycled content in the item by total weight of the item and multiplying by cost of the item.
 - 2. Cost of pre-consumer recycled content of an item shall be determined by dividing weight of pre-consumer recycled content in the item by total weight of the item and multiplying by cost of the item.
 - 3. Do not include furniture, plumbing, mechanical and electrical components, and specialty items such as elevators and equipment in the calculation.

2.2 REGIONAL MATERIALS

- A. Credit MR 5.1 and Credit MR 5.2: Provide a minimum of 10 percent of building materials (by cost) that are regional materials.
- B. Credit MR 5.1: Provide a minimum of 20 percent of materials (by cost) that are regionally manufactured materials.
- C. Credit MR 5.2: Provide a minimum of 10 percent of materials (by cost) that are regionally extracted and manufactured materials.

2.3 LOW-EMITTING MATERIALS

- A. Credit EQ 4.1: For field applications that are inside the weatherproofing system, use adhesives and sealants that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D:
 - 1. Wood Glues: 30 g/L.
 - 2. Metal to Metal Adhesives: 30 g/L.
 - 3. Adhesives for Porous Materials (Except Wood): 50 g/L.
 - 4. Subfloor Adhesives: 50 g/L.
 - 5. Plastic Foam Adhesives: 50 g/L.
 - 6. Carpet Adhesives: 50 g/L.
 - 7. Carpet Pad Adhesives: 50 g/L.
 - 8. VCT and Asphalt Tile Adhesives: 50 g/L.
 - 9. Cove Base Adhesives: 50 g/L.
 - 10. Gypsum Board and Panel Adhesives: 50 g/L.
 - 11. Rubber Floor Adhesives: 60 g/L.
 - 12. Ceramic Tile Adhesives: 65 g/L.
 - 13. Multipurpose Construction Adhesives: 70 g/L.
 - 14. Fiberglass Adhesives: 80 g/L.
 - 15. Contact Adhesives: 80 g/L.
 - 16. Structural Glazing Adhesives: 100 g/L.
 - 17. Wood Flooring Adhesive: 100 g/L.
 - 18. Structural Wood Member Adhesive: 140 g/L.
 - 19. Special Purpose Contact Adhesive (contact adhesive that is used to bond melamine covered board, metal, unsupported vinyl, Teflon, ultra-high molecular weight polyethylene, rubber or wood veneer 1/16 inch or less in thickness to any surface): 250 g/L.
 - 20. Top and Trim Adhesive: 250 g/L.
 - 21. Plastic Cement Welding Compounds: 250 g/L.
 - 22. ABS Welding Compounds: 325 g/L.
 - 23. CPVC Welding Compounds: 490 g/L.
 - 24. PVC Welding Compounds: 510 g/L.
 - 25. Adhesive Primer for Plastic: 550 g/L.
 - 26. Plastic Cement Welding Compounds: 350 g/L.
 - 27. ABS Welding Compounds: 400 g/L.
 - 28. CPVC Welding Compounds: 490 g/L.
 - 29. PVC Welding Compounds: 510 g/L.
 - 30. Adhesive Primer for Plastic: 650 g/L.
 - 31. Sheet Applied Rubber Lining Adhesive: 850 g/L.
 - 32. Aerosol Adhesive, General Purpose Mist Spray: 65 percent by weight.
 - 33. Aerosol Adhesive, General Purpose Web Spray: 55 percent by weight.
 - 34. Special Purpose Aerosol Adhesive (All Types): 70 percent by weight.
 - 35. Other Adhesives: 250 g/L.
 - 36. Architectural Sealants: 250 g/L.
 - 37. Nonmembrane Roof Sealants: 300 g/L.
 - 38. Single-Ply Roof Membrane Sealants: 450 g/L.
 - 39. Other Sealants: 420 g/L.
 - 40. Sealant Primers for Nonporous Substrates: 250 g/L.
 - 41. Sealant Primers for Porous Substrates: 775 g/L.
 - 42. Modified Bituminous Sealant Primers: 500 g/L.
 - 43. Other Sealant Primers: 750 g/L.

- B. Credit EQ 4.2: For field applications that are inside the weatherproofing system, use paints and coatings that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D and the following chemical restrictions:
 - 1. Flat Paints, Coatings, and Primers: VOC not more than 50 g/L.
 - 2. Nonflat Paints, Coatings, and Primers: VOC not more than 150 g/L.
 - 3. Anticorrosive and Antirust Paints Applied to Ferrous Metals: VOC not more than 250 g/L.
 - 4. Clear Wood Finishes, Varnishes: VOC not more than 350 g/L.
 - 5. Clear Wood Finishes, Lacquers: VOC not more than 550 g/L.
 - 6. Floor Coatings: VOC not more than 100 g/L.
 - 7. Shellacs, Clear: VOC not more than 730 g/L.
 - 8. Shellacs, Pigmented: VOC not more than 550 g/L.
 - 9. Stains: VOC not more than 250 g/L.
 - 10. Flat Interior Topcoat Paints: VOC not more than 50 g/L.
 - 11. Nonflat Interior Topcoat Paints: VOC not more than 150 g/L.
 - 12. Anticorrosive and Antirust Paints Applied to Ferrous Metals: VOC not more than 250 g/L.
 - 13. Clear Wood Finishes, Varnishes and Sanding Sealers: VOC not more than 350 g/L.
 - 14. Clear Wood Finishes, Lacquers: VOC not more than 550 g/L.
 - 15. Floor Coatings: VOC not more than 100 g/L.
 - 16. Shellacs, Clear: VOC not more than 730 g/L.
 - 17. Shellacs, Pigmented: VOC not more than 550 g/L.
 - 18. Stains: VOC not more than 250 g/L.
 - 19. Primers, Sealers, and Undercoats: VOC not more than 200 g/L.
 - 20. Dry-Fog Coatings: VOC not more than 400 g/L.
 - 21. Zinc-Rich Industrial Maintenance Primers: VOC not more than 340 g/L.
 - 22. Pretreatment Wash Primers: VOC not more than 420 g/L.
 - 23. Aromatic Compounds: Paints and coatings shall not contain more than 1.0 percent by weight total aromatic compounds (hydrocarbon compounds containing one or more benzene rings).
 - 24. Restricted Components: Paints and coatings shall not contain acrolein, acrylonitrile, antimony, benzene, butyl benzyl phthalate, cadmium, di-(2-ethylhexyl) phthalate, di-n-butyl phthalate, di-n-octyl phthalate, 1,2-dichlorobenzene, diethyl phthalate, diethyl phthalate, dimethyl phthalate, ethylbenzene, formaldehyde, hexavalent chromium, isophorone, lead, mercury, methyl ethyl ketone, methyl isobutyl ketone, methylene chloride, naphthalene, toluene (methylbenzene), 1,1,1-trichloroethane, or vinyl chloride.

03 30 00 - CAST-IN-PLACE CONCRETE

- 1.1 SUMMARY:
 - A. Extent of concrete Work is shown on the Drawings.

2.1 REINFORCING MATERIALS:

- A. See Structural Drawings.

2.2 CONCRETE MATERIALS:

- A. See Structural Drawings.

2.3 RELATED MATERIALS:

- A. Vapor Barrier Retarder: See Structural Drawings and use only materials which are resistant to decay

- when tested in accordance with ASTM E 154, as follows: Polyethylene sheet not less than 6-mils thick.

- B. Non Shrink Grout: CRD_C 621, factory pre mixed grout.

- C. Water Based Curing, Sealer and Dustproofing Compound:
 - 1. Liquid type membrane forming curing, sealer and dustproofing compound complying with ASTM C309, Type 1, Class B and containing 30-percent solids in accordance with ASTM C4758.

- D. Joint Fillers for Concrete Paving: Provide joint fillers of thickness and widths indicated on Drawings and as follows:
 - 1. "Sonolastic Expansion-Joint Filler", Someborn Building Products Division, ChemRex Inc. Polyethylene closed-cell backing, with peel off top, or equal.

2.4 PROPORTIONING AND DESIGN OF MIXES:

- A. Prepare design mixes for each type and strength of concrete by either Laboratory trial batch or field experience methods as specified in ACI 301. If trial batch method used, use an independent testing facility acceptable to Architect/Engineer for preparing and reporting proposed mix designs. The testing facility shall not be the same as used for field quality control testing.
 - 1. Limit use of fly ash to not exceed 20 percent of cement content by weight.
- B. Submit written reports to Architect/Engineer and Structural Engineer of each proposed mix for each class of concrete at least 15 days prior to start of work. Do not begin concrete production until mixes have been reviewed by Architect/Engineer.
- C. Design Mixes: Provide normal weight concrete with the properties indicated on Structural Drawings, but not less than the following:

Location f'w/c% Air/ Footings, piers, grade beams, and all other below grade: 40000.52.5-4.5%2.Interior Slabs on grade, structural slabs, beams, columns, walls, 40000.5Optional/Notes: F=Min 28 day compressive strength w/c=Maximum Water/Cement ratio

03 35 10 - POLISHED AND COLORED CONCRETE

- 1.1 SUMMARY
 - A. Section Includes: This Section specifies dyed and polished concrete.

2.1 POLISHED CONCRETE FINISHING PRODUCTS

- A. Manufacturer: L & M Construction Chemicals, Inc.
 - 1. Contact: 14851 Calhoun Rd., Omaha, NE 68152-1140; Telephone: (800) 362-3331, (402) 453-6600; Fax: (402) 453-0244; website: www.LMCC.com, www.fgs-permashine.com; E-mail: info@lmcc.com.
- B. Proprietary Products/Systems:
 - 1. Hardener, Sealer, Desulfifier: Proprietary, water based, odorless liquid, VOC compliant, environmentally safe chemical hardening solution leaving no surface film.
 - a. Acceptable Material: L & M Construction Chemicals, Inc., FGS Hardener Plus.
 - 2. Joint Filler: Semi-rigid, 2-component, self-leveling, 100% solids, rapid curing, polyurea control joint and crack filler with Shore A 80 or higher hardness.
 - a. Acceptable Material: L & M Construction Chemicals, Inc., Joint Tite 750.
 - 3. Oil Repellent Sealer: Ready to use, silane, siloxane and fluoropolymers blended water based solution sealer, quick drying, low-odor, oil and water repellent, VOC compliant and compatible with chemically hardened floors.
 - a. Acceptable Material: L & M Construction Chemicals, Inc., Petrotex.
 - 4. Concrete Dyes: Fast-drying dye, packaged in premeasured units ready for mixing with VOC exempt solvent, formulated for application to polished cementitious surfaces.
 - a. Acceptable Material: L & M Construction Chemicals, Inc., Vivid Concrete Dyes.
 - 5. Cleaning Solution: Proprietary, mild, highly concentrated liquid concrete cleaner and conditioner containing wetting and emulsifying agents; biodegradable, environmentally safe and certified High Traction by National Floor Safety Institute (NFSI).
 - a. Acceptable Material: L & M Construction Chemicals, Inc., FGS Concrete Conditioner.

06 10 00 - ROUGH CARPENTRY

- 1.1 SUMMARY
 - A. This Section includes the following:
 - 6. Framing with dimension lumber.
 - 7. Framing with engineered wood products.
 - 8. Wood blocking and nailers.
 - 9. Wood furring and girders.
 - 10. Wood sleepers.

2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
 - 1. Factory mark each piece of lumber with grade stamp of grading agency.
 - 2. Provide dressed lumber, S4S, unless otherwise indicated.
- B. Engineered Wood Products: Provide engineered wood products acceptable to authorities having jurisdiction and for which current model code research or evaluation reports exist that show compliance with building code in effect for Project.
 - 1. Allowable Design Stresses: Provide engineered wood products with allowable design stresses, as published by manufacturer, that meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.

2.2 WOOD-PRESERVATIVE-TREATED LUMBER

- A. Preservative Treatment by Pressure Process: AWPAC2], except that lumber that is not in contact with the ground and is continuously protected from liquid water may be treated according to AWPAC31 with inorganic boron (SBX).
 - 1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.

2.3 ENGINEERED WOOD PRODUCTS

- A. Laminated-Veneer Lumber: Structural composite lumber made from wood veneers with grain primarily parallel to member lengths, evaluated and monitored according to ASTM D 5456 and manufactured with an exterior-type adhesive complying with ASTM D 2559 and containing no urea formaldehyde.
 - 1. Extreme Fiber Stress in Bending, Edgewise: 2800 psi.
 - 2. Modulus of Elasticity, Edgewise: 1,800,000 psi.

06 12 00 - STRUCTURAL INSULATED PANELS

- 1.1 SUMMARY
 - A. This section includes: Structural Insulated Panels (SIPs).

2.1 MANUFACTURERS

- A. Basis of Design Products: Subject to compliance with requirements, provide the products indicated or products that are equal in quality, performance and durability as approved by Architect. Products shall be manufactured within 500 miles of the project site.
 - 1. ACH Foam Technologies, LLC, 5250 North Sherman St., Denver, CO 80216
 - 2. SIPs Texas, 5275 Highway 27, Kerrville, TX 78028
- 2.2 MATERIALS
 - A. SIPs shall consist of the following:
 - 1. UL certified EPS core with Perform Guard treatment, minimum of 0.95 pcf (15.2 kg/m3) complying with ASTM C578 Type I and having ICC ES recognition of termite resistance. Insulation manufacturer shall provide Third Party UL certificate. ICC ES report shall be provided for recognition of termite resistance in compliance with ICC AC239.
 - 2. OSB identified with APA or TECO performance mark with Exposure I durability rating and performance in accordance with DOC PS-2 span rating 24/16 or greater.
 - 3. SIP's sheathing shall be pressure-preservative treated per AWPAC U1, Section 4.
 - 4. Adhesives shall be in conformance with ICC ES AC05 - Acceptance Criteria for Sandwich Panel Adhesives and applicable LEED Criteria.

06 16 00 - SHEATHING

- 1.1 SUMMARY
 - A. This Section includes the following:
 - 1. Roof sheathing.
 - 3. Subflooring.
 - 4. Underlayment.
 - 5. Building paper.
 - 6. Building wrap.
 - 7. Sheathing joint-and-penetration treatment.
 - 8. Flexible flashing at openings in sheathing.

2.1 WOOD PANEL PRODUCTS, GENERAL

- A. Plywood: DOC PS 2, unless otherwise indicated.
- 2.2 PRESERVATIVE-TREATED PLYWOOD
 - A. Preservative Treatment by Pressure Process: AWPAC9.
- 2.3 ROOF SHEATHING
 - A. Plywood Roof Sheathing: Exterior sheathing.
- 2.4 SUBFLOORING AND UNDERLAYMENT
 - A. Plywood Subflooring: Exposure 1, Structural 1 single-floor panels or sheathing.
 - B. Plywood Underlayment for Ceramic Tile: DOC PS 1, Exterior, C-C Plugged, not less than 5/8-inch nominal thickness, for ceramic tile set in organic adhesive.
 - C. Plywood Underlayment for Carpet: DOC PS 1, Exposure 1, Underlayment.

- 2.5 WEATHER-RESISTANT SHEATHING PAPER
 - A. Building Paper: ASTM D 226, Type 1 (No. 15 asphalt-saturated organic felt), unperforated.

2.6 MISCELLANEOUS MATERIALS

- A. Adhesives for Field Gluing Panels to Framing: Formulation complying with ASTM D 3498 and that is approved for use indicated by manufacturers of both adhesives and panels.
 - 1. Use adhesives that have a VOC content of 70 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- B. Flexible Flashing: Self-adhesive, rubberized-asphalt compound, bonded to a high-density, polyethylene film to produce an overall thickness of not less than 0.025 inch.

06 17 53 - SHOP-FABRICATED WOOD TRUSSES

- 1.1 SUMMARY
 - A. This Section includes the following:
 - 1. Wood floor trusses.
 - 2. Wood truss bracing.
 - 3. Metal truss accessories.

2.1 DIMENSION LUMBER

- A. Lumber: DOC PS 20. Provide lumber that complies with the applicable rules of any rules writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
 - 1. Provide dry lumber with 19 percent maximum moisture content at time of dressing.
- B. Grade and Species: For truss chord and web members, provide dimension lumber of any species, graded visually or mechanically, and capable of supporting required loads without exceeding allowable design values according to AFAAPA's "National Design Specifications for Wood Construction" and its "Supplement."
- C. Permanent Bracing: Provide wood bracing that complies with requirements for miscellaneous lumber in Division 06 Section Rough Carpentry.

2.2 METAL PRODUCTS

- A. Connector Plates: Fabricate connector plates to comply with TP1.1 from hot-dip galvanized steel sheet complying with ASTM A 653/A 653M; Structural Steel (SS), high-strength low-alloy steel Type A (HSLAS Type A), or high-strength low-alloy steel Type B (HSLAS Type B); G60 coating designation; and not less than 0.036 inch thick.
- B. Fasteners: Where trusses are exposed to weather, in ground contact, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
- C. Metal Truss Accessories: Provide truss accessories made from hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 coating designation.

06 18 13 - GLUED-LAMINATED BEAMS

- 1.1 SUMMARY
 - A. Section includes framing using structural glued-laminated beams.

2.1 STRUCTURAL GLUED-LAMINATED BEAMS

- A. General: Provide structural glued-laminated beams that comply with AITC 117 or research/evaluation reports acceptable to authorities having jurisdiction.
 - 1. Provide structural glued-laminated beams made from solid lumber laminations; do not use laminated veneer lumber.
 - 2. Provide structural glued-laminated beams made with wet-use adhesive complying with ASTM D 2559.
 - a. Use adhesive that contains no urea-formaldehyde resins.
 - B. Species and Grades for Structural Glued-Laminated Beams: Any species that complies with structural properties and beam stress classifications indicated.

06 40 23 - INTERIOR ARCHITECTURAL WOODWORK

- 1.1 SUMMARY
 - A. This Section includes the following:
 - 1. Interior Standing and Running Trim.
 - 2. Interior Wood Door Frames.
 - 3. Wood Stools
 - 4. Wood Door and Window Casings
 - 5. Wood Base

2.1 MANUFACTURERS

- A. Product Data for Credit EQ 4.4:
 - 1. For each composite-wood product used, documentation indicating that the bonding agent contains no urea formaldehyde.
 - 2. For each adhesive used, documentation indicating that the adhesive contains no urea formaldehyde.
- B. Certificates for Credit MR 7: Chain-of-custody certificates certifying that products specified to be made from certified wood comply with forest certification requirements. Include evidence that mill is certified for chain of custody by an FSC-accredited certification body.
 - 1. Include statement indicating costs for each certified wood product.

2.2 COMPONENTS

- A. Lumber shall be sound, kiln dried, and in accordance with the Architectural Woodwork Standards requirements for its use and the Grade specified
- 2.3 FABRICATION
 - A. Interior woodwork shall be Architectural Woodwork Standards Custom Grade.
 - B. Door Jambs shall be plowed jamb with a T stop.
 - C. Trim for opaque finish.
 - 1. Moldings shall be poplar
 - 2. Flat trim items shall be poplar
 - a. Exposed edges shall be sanded and filled if necessary

06 41 13 - ARCHITECTURAL CABINETS

- 1.1 SUMMARY
 - A. This Section includes the following:
 - 1. Wood cabinets.
 - B. Architectural cabinets noted as "OF/CT" will be furnished by Owner and installed by Contractor. Other items to be provided by Contractor.

2.1 INSERT LIST OF PREAPPROVED FIRMS

- Refer to AWTs or WTs member list for names of woodworking firms that could potentially be included.

MATERIALS

- A. Wood Species and Cut for Transparent Finish: As indicated on Drawings.
- B. Preservative for Opaque Finish: As indicated on Drawings.
- C. Wood Products:
 - 1. Recycled Content of Medium-Density Fiberboard and Particleboard: Provide products with an average recycled content so postconsumer recycled content plus one-half of preconsumer recycled content is not less than 20 percent.
 - 2. Medium-Density Fiberboard: ANSI A208.2, Grade MD, made with binder containing no urea formaldehyde.
 - 3. Softwood Plywood: DOC PS 1, Medium Density Overlay.
 - 4. Veneer-Faced Panel Products (Hardwood Plywood): HPVA HP-1, made with adhesive containing no urea formaldehyde.
- D. Tempered Float Glass for Cabinet Doors: ASTM C 1048, Kind FT, Condition A, Type I, Class 1 (clear), Quality-O3, with exposed edges sanded before tempering, 6 mm thick, unless otherwise indicated.

06 43 12 - WOOD STAIRS AND RAILINGS

- 1.1 SUMMARY
 - A. This Section includes the following:
 - 1. Stairwork and railings.

1.2 SUBMITTALS

- A. LEED Submittals:
 - 1. Product Data for Credit EQ 4.4:
 - a. For each composite-wood product used, documentation indicating that the bonding agent contains no urea formaldehyde.
 - b. For each adhesive used, documentation indicating that the adhesive contains no urea formaldehyde.
 - 2. Certificates for Credit MR 7: Chain-of-custody certificates certifying that products specified to be made from certified wood comply with forest certification requirements. Include evidence that mill is certified for chain of custody by an FSC-accredited certification body.
 - a. Include statement indicating costs for each certified wood product.

2.1 MATERIALS

- A. Wood Species for Opaque Finish: Poplar
- 2.2 MISCELLANEOUS MATERIALS
 - A. Rough Carriages for Stairs: Select Structural grade Douglas fir-larch, hem-fir, or southern pine; kiln dried to 15 percent maximum moisture content.
- 2.3 FABRICATION
 - A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scribing, trimming, and fitting.
 - 1. Interior Woodwork Grade: Custom.
 - B. Stairwork and Railings:
 - 1. Treads: Opaque finish.
 - 2. Risers: Opaque finish.
 - 3. Stringers: Opaque finish.
 - 4. Balusters: Opaque finish.
 - 5. Handrails: Opaque finish.
 - 6. Scotia, Cove, and Other Moldings: Opaque finish.

06 66 20 - MANUFACTURED URETHANE TRIM

- 1.1 SUMMARY
 - A. Section includes furnishing and installing all selected High Density Urethane Foam Manufactured Trim and Ornament Products, including but not limited to:
 - 1. Standing and Running Trim

- 2. Ornamental Trim

2.1 MANUFACTURERS:

- A. Acceptable Manufacturer:
 - Fypon, LLC.
 - 1750 Indian Wood Circle
 - Maumee, Ohio 43537
 - Phone: 800/446-3040
 - <http://www.fypon.com>

2.2 MATERIALS:

- A. Manufactured polyurethane trim and ornaments:

2.3 ACCESSORIES:

- A. Sealant: Use a manufacturer's approved urethane-based adhesive.
- B. Fasteners: Use corrosion-resistant fasteners.
- C. Filler: Use a manufacturer's approved filler putty.

2.4 FINISHES:

- A. Manufacturer supplied protective barrier coat primer, resistant to UV degradation, providing interim UV protection of products which is suitable for field application of oil base or latex finish paints on all urethane foam products.

06 73 00 - COMPOSITE WOOD DECKING

- 1.1 SUMMARY
 - A. Composite wood decking.

2.1 MATERIALS

- A. Basis of Design Product: The design for composite Wood Decking is based on the products manufactured by Trex Manufacturing, Inc., 160 Exeter Drive, Winchester, VA 22603-8605 Phone: 800-BUY-TREX, extension 930.
- B. Profiles: Decking nominally 5/4 x 6 inches x 20-feet.
- C. Surface Texture: Origins, smooth.
- D. Color: SD - Saddle.

2.2 ACCESSORY PRODUCTS

- A. Fasteners: Stainless steel of length recommended by composite wood manufacturer for profile being fastened.

07 21 00 - THERMAL INSULATION

- 1.1 SUMMARY
 - A. This Section includes the following:
 - 1. Batt and Roll Insulation.

2.1 BATT AND ROLL INSULATION

- A. Available Manufacturers:
 - 1. CertainTeed Corporation.
 - 2. Johns Manville.
 - 3. Knauf Fiber Glass.
 - 4. Owens Corning.

07 46 46 - CEMENTITIOUS SIDING AND TRIM BOARDS

- 1.1 SUMMARY
 - A. Section includes:
 - 1. Vertical and Horizontal lap siding
 - 2. Vertical Batten Boards
 - 3. Trim Boards

2.1 FIBER-CEMENT SIDING AND TRIM BOARDS

- A. Acceptable Manufacturer: James Hardie Building Products, Inc., which is located at: 26300 La Alameda Suite 400 / Mission Viejo, CA 92691; Toll Free Tel: 866-274-3464; Tel: 949-367-4980; Email: request info (info@jameshardie.com); Web: www.jameshardiecommercial.com

07 53 23 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

- 1.1 SUMMARY
 - A. Section Includes:
 - 1. Adhered EPDM membrane roofing system.

2.1 EPDM MEMBRANE ROOFING

- A. EPDM: ASTM D 4637, Type I, non-reinforced, uniform, flexible EPDM sheet.
 - 1. by one of the following:
 - a. Carlisle SynTec Incorporated.
 - b. Firestone Building Products.
 - 2. Thickness: 60 mils nominal
 - 3. Exposed Face Color: White on black.
- 2.2 AUXILIARY MEMBRANE ROOFING MATERIALS

- A. Sheet Flashing: 60-mil thick EPDM, partially cured or cured, according to application.
- B. Bonding Adhesive: Manufacturer's standard, water based.
- C. Seaming Material: Single-component, butyl splicing adhesive and splice cleaner or Manufacturer's standard, synthetic-rubber polymer primer and 3-inch-wide minimum, butyl splice tape with release film)
- D. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening membrane to substrate, and acceptable to roofing system manufacturer.
- E. Miscellaneous Accessories: Provide lap sealant, water cutoff mastic, metal termination bars, metal battens, pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, reinforced EPDM secumort strips, T-joint covers, in-seam sealants, termination reglets, cover strips, and other accessories.

SHEET NO. Ao.2

SPECIFICATIONS

CIN 3401R

1 JUN 13

THE GRUENE HOUSE

CINNAMON SHORE