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DEMOLITION SECTION 02050

PART ONE - GENERAL

1.01 SCOPE: Furnish materials, equipment and labor required for demolition of existing structures as shown on the drawings or described herein. Securing demolition permits, have permits, etc. as required to execute work herein.

1.02 JOB CONDITION:

A. Carefully examine the existing structure, site, the Drawings and all sections of the Specifications to become fully acquainted with the extent of demolition, and the incidental work required.

B. Demolition and removal work required to accommodate work under other sections of the Specification and shown on the Drawings is included in this Section 02050.

C. Assume responsibility for utilities or other structures to remain. Replace or repair any damage caused by operations under this contract.

PART TWO - MATERIALS - Not Applicable

PART THREE - EXECUTION

3.01 Contact all utilities prior to performing any work, coordinate utility locations, disconnect with utility company. Pay all required fees and required.

3.02 Items to be demolished shall be taken down in an orderly and careful manner, with due consideration for the occupants of neighboring buildings and the public. Bracing and shoring shall be used as necessary to avoid collapse of any portion of the structure.

3.03 Be completely responsible for all bracing and shoring design, and the erection and removal thereof.

3.04 Active utilities located within area of new construction shall be relocated as directed by Krystal Construction Department Representative. Abandoned utilities encountered by Contractor shall be removed as follows:

3.05 Abandon and cap existing utilities serving the existing structures to be demolished. When authorized, such work shall be accomplished by licensed trade in accordance with applicable codes or regulation of authorities having jurisdiction; all work shall be done with care to prevent damage or contamination of active services. All disconnections and terminations shall occur 2 feet below grade, unless otherwise directed by Krystal Construction Department Representative.

3.06 Upon completion, leave the premises clean, neat and ordered.

3.07 REMOVAL OF EXISTING WORK:

A. The removal of all items indicated to be removed shall be done with utmost care, using suitable tools and methods. The disposal of materials in approved locations shall be in accordance with all applicable laws, codes, ordinances, and permits.

B. The Contractor shall remove all materials to be demolished, including trash and debris resulting from the demolition work, to be transported off site in a legally approved, licensed vehicle which splits off trucks or which accumulates on ground during loading and unloading shall be picked up and removed each day.

C. The Contractor shall assume all responsibility for damages caused by his operations or his subcontractors' operations to adjacent property, streets, public equipment, vehicles, streets, utilities or structures, and shall be responsible for the repair of such damage at no cost to the Owner.

3.01 WELDING: Welding shall be done by experienced welders using machines and equipment of adequate capacity so passes will be completely continuous and uniform. Carefully and neatly make all welds; make completely continuous where required. Make any weathering joints wind and water tight. Newly dress exposed welds; dress welds on flat surfaces smooth with the surfaces on which it occurs.

UNIT MASONRY SECTION 04200

PART ONE - GENERAL

1.01 SCOPE

A. FURNISH materials, equipment and labor to complete the erection of all masonry as shown on the drawings and specified herein.

B. Cooperate with other Trades in placing in the masonry work, pipes, sleeves, conduits, bolts, boxes, etc., which are furnished and/or placed by others.

PART TWO - MATERIALS

2.01 CONCRETE MASONRY UNITS: Hollow Load Bearing Split Faced Masonry Units shall be Grade N Type 11 units conforming to the A.S.T.M. Designation C90, with minimum net tensile strength of 125 p.s.i., 8 x 16 nominal face size by thickness required, whole sound and free from cracks and chipped or broken edges on exposed surfaces. Do not use cinder block. Furnish bond blocks, special cups, etc. as required.

2.02 MORTAR MIX: Approved masons mix conforming to A.S.T.M. Designation G-91 with minimum compressive strength of 1800 p.s.i. at 28 days, Type N.

2.03 AGGREGATE: Clean, sharp, and well-graded sand, free of clay, dust, lumps, shale, alkali, surface coatings and loam or vegetable matter. Aggregate for concrete fill in cores of CMU shall conform to A.S.T.M. Designation suitable for mix design required to meet compressive strength and space available in cores.

2.04 WATER: Clean, rust-free City water.

2.05 HORIZONTAL JOINT REINFORCING: standard mill galvanized truss-type masonry wall reinforcing of proper width for Thickness of wall, Dur-O-Wall, or approved equal, with 3/16 side rods and No. 9 cross rods.

2.06 VERTICAL AND HORIZONTAL WALL REINFORCING: Reinforcing bars in masonry walls shall be ASTM/615-Grade 60. Splices shall be no less than 40 bar diameters.

PART THREE - EXECUTION

3.01 LAYING OUT WORK: Lay out the work according to the dimensions shown on the drawings and check all layouts before starting work. Should any errors or discrepancies be found, consult The Krystal Construction Department Representative before proceed with the work.

3.02 MORTAR: Mix in strict accordance with manufacturer's instructions, in tight box or mixer to a uniform consistency and color. Only fresh mixed mortar may be used; do not use retempered mortar. Anti-freeze compound and admixtures will not be permitted in mortar.

3.03 LAYING MASONRY UNITS: Lay all block work true to dimensions, plumb, square, as shown on dwgs, and properly anchor. All courses shall be level. Do not wet brick. Lay block as shown in full beds, and fill all vertical joints completely with mortar. Joints shall be approximately 3/8" thick. Install reinforcement in every second bed joint.

3.04 PROTECTION: No masonry shall be laid in freezing weather. Keep top of walls covered with non-staining waterproof covering when work is not in progress. When work is resumed, top surface of work shall be cleaned of all loose mortar.

3.05 CLEANING: Keep masonry clean as work progresses. Remove large particles of mortar with chisel. At completion, point up all work required and repair any blocks to provide a uniform finishing texture face.

3.06 COMPLETION: Upon completion remove all debris, equipment, ect, remaining from masonry work.

MISCELLANEOUS METALS SECTION 05500

PART ONE - GENERAL

1.01 SCOPE: Work of this section includes all items of miscellaneous metal.

1.02 SUBMITTALS: Comply with Section 01300.

PART TWO - MATERIALS

2.01 LADDER: Fabricate using mild steel shapes. Weld rungs to strings and strings to brackets. Hot-dip galvanize ladder and its brackets after fabrication. Weld padlock staple and hinge-leaves to ladder. Fabricate cover using galvanized steel sheet. Weld padlock hump and hinge leaves to cover. Prime and paint entire cover assembly, hinges and humps; DO NOT paint ladder itself. Bolt ladder brackets to building structure.

2.02 GUARD POSTS: Provide standard steel pipe pipe as detailed on drawings.

2.03 DUMPSTER SUPPORTS: Fabricate anchors and support unit support rails at Utility area as detailed on drawings. Mount supports on anchors; neatly dress welds.

2.04 ALUMINUM R RAILING: Provide aluminum pipe, schedule 40, mill finish, with outside diameter of 1 1/2 inch and wall thickness of 0.140, continuous, welded into one piece.

2.05 TRASH AREA GATE: Provide steel angle framework, posts, and miscellaneous items for gates at Trash Area as detailed on drawings.

2.06 UNCAPPED PARKING SIGNS: As described and shown on drawings. Signs themselves are available from A. H. S. Supply Co., P.O. Box 4782, Chattanooga, TN 37405; telephone 615-265-3054.

2.09 NOT USED

2.10 STAINLESS STEEL PANELS (BELOW HOODS): From bottom of hoods skirts to floor, install 22 gauge Type 304, No. 3 polish stainless steel sheets. Secure to 5/8" g/psm beam with construction adhesive and truss head stainless steel screws spaced 12" c/c into studs. Lap up under hood skirt approximately 1/2". Furnished by Equipment Vendor

2.11 STAINLESS STEEL PANELS AT SERVICE: BY KRystal

PART THREE - EXECUTION

3.01 WELDING: Welding shall be done by experienced welders using machines and equipment of adequate capacity so passes will be completely continuous and uniform. Carefully and neatly make all welds; make completely continuous where required. Make any weathering joints wind and water tight. Newly dress exposed welds; dress welds on flat surfaces smooth with the surfaces on which it occurs.

3.02 PAINTING: Do not paint galvanized ladder, paint cover, hinge and hasps. After fabrication clean ladder cover and all other metal work except factory finished and nonferrous metals such as aluminum, brass or stainless steel, and apply a thorough shop coat of rust resisting oil base metal priming paint.

3.03 INSTALLATION: Carefully install all items to accurate lines and securely anchor against movement, properly protect against damage during construction. Before final acceptance at building, replace, repair or reseat any items damaged or loosened. Check and adjust all units that operate and leave in perfect appearing condition.

FINISH CARPENTRY SECTION 06200

PART ONE - GENERAL

1.01 SCOPE

A. This section includes furnishing and installing all miscellaneous exposed wood members and trim items and Serving Counter, as detailed on the drawings.

B. This section includes installation of metal frames, wood doors, various hardware, and various miscellaneous metals and specialties furnished under other Sections of these Specifications, and related items necessary for a complete and proper installation.

1.02 SUBMITTALS: Comply with Section 01300. Furnish complete shop and erection drawings. Drawings shall show sizes, arrangement of component parts, shapes, type and grade of wood, and any other pertinent information. Furnish samples of the full range of colors and patterns available for each of the various finish materials requiring color selections.

PART TWO - MATERIALS

2.01 GENERAL REQUIREMENTS:

A. Receive, stack, and store materials in accordance with good practice. B. Grading: Each piece of finish lumber shall be grade-marked and kiln-dried. Bundled stock shall have grade mark applied to each bundle.

C. Sizes and Patterns: Work lumber to pattern detailed. Shaped material shall conform to standard patterns indicated.

D. Moisture Content: Maximum moisture content of treated or untreated finish lumber, trim and millwork shall be 12 per cent of time of delivery to job site.

2.02 ROUGH HARDWARE: The General Contractor shall furnish all rough hardware, including nails, screws, bolts, lag screws and similar anchors and fillings and all other hardware either mentioned in these specifications or required for the proper completion of the work.

2.03 PLASTIC LAMINATE: As scheduled on drawings. Colors as scheduled.

2.04 PLYWOOD: Veneer core plywood of thicknesses shown on Drawings.

A. Where both sides covered with plastic laminate: APA C-D INT. B. Where both sides visible: APA B-B INT. C. Where one side visible: APA B-C or B-D INT.

2.06 FRP (Fiberglass Reinforced Polyester) PANELS: 3/32" thick with pebbled texture face, color noted on drawings, by Marile. Install on face of gypsum board or plywood using Marile caulking, C-375 adhesive, and matching FP 199 PVC mouldings of the proper shape at edges, interior and exterior corners, and between panels, all in strict accordance with Marile Co. Specifications. The FRP material, mouldings, and adhesive shall be ordered from Marile Products, 3715 Atlanta Industrial Parkway, Atlanta, Georgia, 30310; phone 404-691-1234.

2.07 ADHESIVE: For adhering plastic laminate to plywood substrate on desks and cabinets, use contact adhesive equal to Wileonart brushable grade LW500 on plywood and plastic laminate surfaces in accordance with adhesive manufacturer's instructions. For adhering solid surfacing, use the solid surfacing silicone sealant as recommended by solid surfacing manufacturer on plywood framing.

2.08 COUNTER IN OFFICE: Post formed plastic laminate covered, as detailed, on 45 lb. density particle board.

PART THREE - EXECUTION

3.01 INSTALLATION: Install work of this Section as indicated on the Drawings as specified herein in accordance with approved Shop Drawings and manufacturers' written instructions.

3.02 Install the work plumb, true and straight with no distortions. Shim as required using concealed shims installed to a tolerance of 1/8" in 80" for plumb and level including over partitions, and with 1/16" maximum offset in flush adjoining faces, 1/8" maximum offsets in revealed adjoining surfaces.

3.03 FINISH HARDWARE: Receive, store, and install finish hardware specified in drawings. At completion of the job, check and leave all hardware in optimum operating condition. Tag keys with hard fiber or metal edged cardboard tags labeled according to the key as number on the drawings. Box keys neatly and orderly and return keys to the Owner.

BUILDING INSULATION SECTION 07200

PART ONE - GENERAL

1.01 SCOPE: The scope of this section includes insulation of exterior walls and elsewhere as shown.

1.02 Roof insulation is included in Section 07500.

PART TWO - MATERIALS

2.01 THERMAL BLANKET INSULATION: Inorganic glass fiber blankets UNFACED 5" thick, R-9, by Owens-Corning or equal

2.02 PERIMETER INSULATION: High density extruded polystyrene foam insulation, with smooth surface and square (butt) edges, Styrofoam SM, by the Dow Chemical Company.

2.03 RIGID WALL INSULATION: High density extruded polystyrene foam insulation, with smooth surface and square (butt) edges, Styrofoam SM, by the Dow Chemical Company.

PART THREE - INSTALLATION

3.01 Install thermal blanket insulation between studs (at parapet walls), fit closely around, between or over irregularities and obstructions and cut to present a continuous blanket of insulation

3.02 Install Perimeter Insulation where indicated on Drawings in accordance with manufacturer's instructions tightly against inside face of foundation with edges pulled tightly.

3.03 Install rigid wall Insulation where indicated on Drawings in accordance with manufacturer's instructions tightly against inside face of sheathing with edges pulled tightly.

EXTERIOR INSUL. & FINISH SYSTEM SECTION 07241

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Composite wall and soffit cladding of rigid insulation and applied coating.

1.2 REFERENCES

A. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.

1.3 SUBMITTALS

A. Schedule: Submit schedule indicating which of the listed manufacturers is used.

1.4 QUALIFICATIONS

A. Applicator 1. Company specializing in performing the work of this section with minimum 5 years documented experience.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect materials from freezing by storing in an environment recommended by manufacturer.

1.6 ENVIRONMENTAL REQUIREMENTS

A. Do not install finish when ambient temp. is below 40 degrees F. B. Maintain this temp. during and 24 hours after installation of finish.

PART 2 PRODUCTS

2.1 MANUFACTURERS / SYSTEM

A. Dryvit Systems, Inc. / OUTSULATION LCDM System, Option 2 B. Substitutions: no substitutions allowed.

2.2 MATERIALS / SYSTEM COMPONENTS

A. DUPONT TYVEK STUCCO WRAP B. Flashing material (Liquid): Aquaflex and Aquaflex Mesh C. Flashing material (Sheet): Dryvit Flashing Tape and surface conditioner

D. Adhesives: Cementitious: Prime or Genesis E. Expanded Polystyrene Board Insulation: Conforming to the following: 1. Thermal Resistance: R of 8.0. 2. Thickness: 1 1/2" inch thick.

3. Flame/Smoke Properties: 5/25 in accordance with ASTM E84. F. Base Coating: Genesis Base coat G. Reinforcing Mesh: Standard weight H. Finish Coating: 100 % Acrylic based

I. Schedule: Building Body: Dryvit color: BRIGHT WHITE Texture: SANDBLAST

2.3 ACCESSORIES

A. Insulation Fastening: Manufacturers standard fastening with washers. B. Trim and Control Joints: Galvanized steel, with attachment flanges. C. Sealant Materials: Dow Corning type specified in Section 07900. Sealant must be approved by EIFS manufacturer in writing. Submit letter to A/E indicating conformance.

D. Insulation Board Closure: Expanded Polystyrene, 6" height E. Dryvit Starter Strip: 2" x 6" piece of aged polystyrene to receive Dryvit Trac Permanent Track F. Dryvit Vent Assembly: 2" x 6" x 12" expanded polystyrene, configured to contain a formed-in-place matrix mesh and receive Dryvit Vent Track. The Dryvit Vent Assembly, along the base of walls and at the terminations.

G. Dryvit Back Pack: J-shaped track containing a slot for drainage and receive Dryvit Vent Track. The Dryvit Vent Assembly, along the base of walls and at the terminations.

PART 3 EXECUTION

3.1 PREPARATION A. Verify the substrate and adjacent materials are dry. B. Verify the substrate is flat, free of fins or irregularities C. Protect adjoining materials and areas prior to and during installation

3.2 INSTALLATION - INSULATION A. Install insulation in accordance with manufacturer's instructions. B. Place boards in a method to maximize tight joints. Stagger vertical joints. Butt edges and ends tight to adjacent board and to protrusions.

C. Secure boards to substrate with approved adhesive to achieve a continuous flush insulation surface with grooves installed vertically.

3.3 INSTALLATION - COATING A. Install base coat, coating and glass fiber mesh reinforcement in accordance with manufacturer's instructions. B. Install trim and control joints. C. Install trim in full lengths only to minimize moisture intrusion; cut horizontal trim tight to vertical trim. D. Apply finish to a total minimum thickness of 1/8 to 3/16 inch Finish to a uniform texture and color. E. Roul surface finish to pattern as indicated. F. Apply sealant at finish perimeter and control joints in accordance with Section 07900.

3.4 FIELD QUALITY CONTROL

A. During construction the work shall be inspected periodically by the manufacturer or its authorized representative. B. Protect finished work. C. Do not permit finish surface to become soiled or damaged.

3.6 WARRANTY

A. Provide a standard 10 year manufacturer's limited warranty.

METAL WALL PANEL SECTION 07420

PART ONE - GENERAL

1.1 SECTION INCLUDE

A. Exposed fastener metal wall panels, with related metal trim and accessories.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Prior to erection of framing, conduct preinstallation meeting at site attended by Owner, Architect, manufacturer's technical representative, inspection agency and related trade contractors.

1. Coordinate building framing in relation to metal panel system. 2. Coordinate openings and penetrations of metal panel system.

1.3 QUALITY ASSURANCE

A. Manufacturer/Source: Provide metal panel assembly and accessories from a single manufacturer providing fixed-base roll forming, and accredited under IAS AC 472 Part B. B. Manufacturer Qualifications: Approved manufacturer listed in this Section with minimum five years experience in manufacture of similar products in successful use in similar applications.

C. Installer Qualifications: Experienced installer with minimum of five years experience with successfully completed projects of a similar nature and scope.

1. Installer's Field Supervisor: Experienced mechanic, able to communicate with Owner, Architect, and installers, supervising work on site whenever work is underway.

1.4 ACTION SUBMITTALS

A. Product Data: Manufacturer's data sheets for specified products. B. Shop Drawings: Show layouts of metal panels. Include details of each condition of installation, panel profiles, and attachment to building. Provide details at a minimum scale 1-1/2-inch per foot of edge conditions, joints, fastener and sealant placement, flashings, openings, penetrations, and special details. Make distinctions between factory and field assembled work.

1. Indicate points of supporting structure that must coordinate with metal panel system installation. 2. Include data indicating compliance with performance requirements.

3. Include structural data indicating compliance with requirements of authorities having jurisdiction.

C. Samples for Initial Selection: For each exposed product specified including sealants. Provide representative color charts of manufacturer's full range of colors.

D. Samples for Verification: Provide 12-inch-long, 1-in. of each metal panel profile. Provide color chip verifying color selection.

1.5 INFORMATIONAL SUBMITTALS

A. Product Test Reports: Indicating compliance of products and requirements, witnessed by a professional engineer. B. Qualification Information: Manufacturer's installer's field supervisor's qualifications.

C. IAS Accreditation Certificate: Indicating that manufacturer is accredited under provisions of IAS AC 472. D. Manufacturer's Warranty: Sample copy of manufacturer's standard warranty.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance data. B. Manufacturer's Warranty: Executed copy of manufacturer's standard warranty.

DELIVERY, STORAGE, AND HANDLING

A. Protect products of metal panel system during shipping, handling, and storage to prevent staining, denting, deterioration of components or other damage. Protect panels and trim bundles during shipping.

1. Deliver, unload, store, and erect metal panel system and accessory items without mishapping panels or exposing panels to surface damage from weather or construction operations.

2. Store in accordance with Manufacturer's written instructions. Provide wood collars for stacking and handling in the field.

1.8 WARRANTY

A. Special Manufacturer's Warranty: On manufacturer's standard form, in which manufacturer agrees to repair or replace metal panel assemblies that fail in materials and workmanship within one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Basis of Design Manufacturer: MBCI Metal Roof and Wall Systems, Division of NCI Group, Inc., Houston TX. Tel: (877)713-6224. Email: HYPERLINK "mailto:info@geofocseries.com" info@mcbi.com; Web: HYPERLINK "http://www.mcbi.com" www.mcbi.com.

1. Provide basis of design product.

2.2 PERFORMANCE REQUIREMENTS

A. General: Provide metal wall panel system meeting performance requirements as determined by application of specified tests by a qualified testing facility on manufacturer's standard assemblies.

B. Thermal Movements: Allow for thermal movements from variations in both ambient and internal temperatures. Accommodate movement of support structure caused by thermal expansion and contraction. Allow for deflection and design for thermal stresses caused by temperature differences from one side of the panel to the other.

C. Structural Performance: Provide metal panel assemblies capable of withstanding the effects of indicated loads and stresses within limits and under conditions indicated.

2.3 METAL PANEL MATERIALS

A. Aluminum-Zinc Alloy-Coated Steel Sheet: ASTM A 792/A 792M, structural quality, Grade 50, Coating Class AZ50 preprimed by the coating process per ASTM A 755/A 755M.

2.4 METAL WALL PANELS

A. Corrugated-Profile, Exposed Fastener Metal Panels: Structural metal panel consisting of formed metal sheet with alternating curved ribs, installed by lapping edges of adjacent panels.

1. Basis of Design: MBCI, PBC Panel, HYPERLINK "http://www.mcbi.com/pbc.html" www.mcbi.com/pbc.html. 2. Coverage Width: 24 inches.

3. Continuous Rib Spacing: 2-5/8 inches on center. 4. Rib Height: 1/2 inch. 5. Nominal Coated Thickness: .29 gage.

6. Panel Surface: Smooth. 7. Exterior Finish: Modified silicone-polyester two-coat system. 8. Color: Signature 300, Charcoal Gray.

2.5 METAL PANEL ACCESSORIES

A. General: Provide complete metal panel assembly incorporating base, corner, and opening trims and miscellaneous flashings, in Corrugated Metal Panels. Provide required fasteners, closure strips, support plates, and sealants as indicated in manufacturer's written instructions.

B. Flashing and Trim: Match material, thickness, and finish of metal panel face sheet.

C. Panel Fasteners: Self-lapping screws and other acceptable fasteners recommended by metal panel manufacturer.

1. Exposed Fasteners: Long life fasteners with EPDM or neoprene gaskets, with heads matching color of metal panels by means of factory-applied coating.

D. Joint Sealers: Manufacturer's standard or recommended liquid and preformed sealers and tapes, and as follows:

1. Tape Sealers: Manufacturer's standard non-curing butyl tape, AAMA 809.2.

E. Steel Sheet Miscellaneous Framing Components: ASTM C 645, with ASTM A 653/A 653M, G60 hot-dip galvanized zinc coating.

2.6 FABRICATION

A. General: Provide factory fabricated and finished metal panels and accessories meeting performance requirements, indicated on drawings, and structural requirements.

B. Panel Lengths: Form panels to full lengths for full length of detailed runs, except where otherwise indicated on approved shop drawings.

C. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's written instructions, approved shop drawings, and project drawings. Finish trim in same finish as metal panel substrate and finish.

2.7 FINISHES

Finishes: General: Prepare, pretreat, and apply coating to exposed surfaces in accordance with manufacturer's written instructions.

B. Polypropylene Two-Coat System: 0.