### SECTION 01000 - GENERAL REQUIREMENTS Bidding and Contract Requirements

A. Refer to AIA Document A201, General Conditions of the Contract for Construction, 2007 B. All Construction is to comply with the minimum standards of IBC 2012 Edition and the Texas Department of Licensing & Regulation and any other codes adopted within a

jurisdiction of the project. C. Existing Conditions: The General Contractor is responsible for verifying all existing conditions on the site or associated with the site and any existing construction on the site. No adjustments in the Contract will be allowed for discrepancies between the Contract Documents and actual conditions which could have been readily verified by the General Contractor WORK UNDER OTHER CONTRACTS

Separate Contract: Cooperate fully with separate Contractors hired for work by Owner. Work contracted by Owner includes: Communications/Data/Cabling/TV/Telephone Security System AV Equipment and Screens

Kitchen Appliances . Kitchen sink and faucet are included Fire Extinguishers by Owner: Only Fire extinguisher cabinets are included in this The Owner will provide sod to all disturbed areas. All dirt work including Final Grading by the General Contractor.

Asphalt patching by Owner to meet up with new concrete flatwork on the North INSURANCE REQUIREMENTS: These limits are the minimum requirements of the General Contractor Refer to "Standard Terms and Conditions" set out by Gregg County, Texas in the Bid Instructions

SUBMITTAL REQUIREMENTS A. Refer Section 01330 - Submittals are required on ALL products.

Furniture, Equipment and Window Coverings

### SECTION 01210 - ALLOWANCES

A. This Section includes administrative and procedural requirements governing the following: Materials Testing Allowance.

PREPARATION A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work SCHEDULE OF ALLOWANCES

Materials Testing Allowance: Include the lump sum of \$2,000.00 for materials testing of soil and concrete as specified. Contractor to contract directly with the approved testing

B. Results of all Testing shall be submitted immediately to the Architect and Engineer for review and approval END OF SECTION 01210

#### SECTION 01230 - ALTERNATES DEFINITIONS

A. Alternate: An amount proposed by Contractor or Subcontractor for certain work that may be added to or deducted from the Base Bid amount if Owner decides to accept the PROCEDURES A. Coordination: Modify or adjust affected adjacent work as necessary to completely

integrate work of the alternate into Project. 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation. ALTERNATES

Alternate #1: Provide a 3'-0" overhang of the metal roof. Base Bid is to provide the standard overhang to the metal building. END OF SECTION 01230

### SECTION 01330 - SUBMITTAL PROCEDURES AND REQUIRED SUBMITTALS

SHOP DRAWINGS AND PRODUCT DATA A. Submit the number of reproductions Contractor requires, plus one copy for the Architect and Owner. Additionally, provide the complete shop drawing in electronic form for review

B. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturer's standard data to provide information unique to this Project

C. Identify variations from Contract Documents and Product or system limitations which may be detrimental to successful performance of the completed Work. D. Submit samples to illustrate functional and aesthetic characteristics of the Product, with integral parts and attachment devices. Coordinate sample submittals for interfacing

E. Submit manufacturers' printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, in quantities specified for Product Data. Submit MSDS Sheets and Product Data Sheets for closeout documents.

REQUIRED SUBMITTALS A. Submittals are required for each product type, accessory item and component specified. END OF SECTION 01330

#### SECTION 01400 - QUALITY REQUIREMENTS QUALITY ASSURANCE - CONTROL OF INSTALLATION

A. Comply with manufacturers' instructions, including each step in sequence. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect/Engineer before proceeding.

REFERENCES A. For Products or workmanship specified by association, trade, or other consensus standards, comply with requirements of the standard, except when more rigid

requirements are specified or are required by applicable code. Refer to manufacturer's recommendations on cleaning, installation and all other aspects for each product used. END OF SECTION 01400

## SECTION 01770 - CLOSEOUT PROCEDURES

 This Section includes administrative and procedural requirements for contract closeout. including, but not limited to, the following

Inspection procedures, Project Record Documents, Operation and Maintenance Manuals, MSDS Sheets, Product Data, Warranties, Instructions to Owner, Final SUBSTANTIAL COMPLETION

A. Preliminary Procedures: Before requesting inspection for determining date of Substantial Completion, complete the following. Prepare a list of items to be completed and corrected (punch list), the value of items on the list, and reasons why the Work is not complete. PROJECT RECORD DOCUMENTS

Mark Record Prints to show the actual installation of all items. Give particular attention to information on concealed elements that cannot be readily identified and recorded later. OPERATION AND MAINTENANCE MANUALS A. Assemble a complete set of operation and maintenance data indicating the operation and maintenance of each system. Include manufacturer's information, list of spare parts, maintenance procedures, maintenance and service schedules for preventive and routine maintenance, and copies of warranties and bonds.

FINAL CLEANING A. General: Provide final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and

PROJECT CLOSEOUT A. Provide 2 copies of record drawings, maintenance instructions and all warranty materials proof of payment of suppliers and subcontractors and that no asbestos containing materials were used in the work including MSDS sheets for all products used. Provide 1 electronic copy of the entire close out documents listed.

### SECTION 02070 - SELECTIVE DEMOLITION

A. Project Record Documents: Accurately record actual locations of capped utilities, subsurface obstructions, and other underground/concealed information. Conduct demolition to minimize interference with adjacent and occupied building areas.

EXECUTION Erect and maintain weatherproof closures for exterior openings. Erect and maintain temporary partitions to prevent spread of dust, odors, and noise. Protect existing materials and equipment which are not to be demolished.

Prevent movement of structure; provide bracing and shoring.

#### Disconnect, remove, cap, and identify designated utilities within demolition areas. END OF SECTION 02070 SECTION 02110 - SITE CLEARING

END OF SECTION 01770

3.1 GENERAL A. The Contractor shall make every effort to protect all lawns, trees, plants, and shrubs encountered during construction outside of the limits of construction. In all cases where questions arise, the Contractor shall request clarification from the Architect and Owner. B. Power poles and guys, which interfere with construction, shall be braced and, if necessary, relocated by the utility company. The Contractor shall be responsible for

coordinating all work with the utility companies. Protect all property lines, monuments and stakes encountered in his work. Exact locations and elevation of all utilities are not guaranteed and shall be determined in the field by the Contractor prior to construction. SITE CLEARING

General: Remove trees, shrubs, grass and other vegetation, improvements, or obstructions interfering with installation of new construction. Removal includes digging out stumps and roots. B. Strip topsoil to whatever depths encountered in a manner to prevent intermingling with underlying subsoil or other objectionable material. Stockpile topsoil in storage piles in areas shown, or where directed. Construct storage piles to freely drain surface water. Cover storage piles to freely drain surface water. Cover storage piles if required to

prevent wind-blown dust. Protect all existing utilities or service lines crossed or exposed by construction Remove all above grade and below grade utilities that are to be abandoned.

Saw cutting of existing pavement and curbs and gutters as required for construction. DISPOSAL A. Legally dispose of all material at a licensed site or with written and notarized permission from the property owner for a private disposal site. Burning of debris shall not be permitted. END OF SECTION 02110

#### SECTION 02300 - EARTHWORK SECTION INCLUDES

A. Backfilling and compaction to specified grades as per Plans and Specifications. Rock or Unforeseen Buried Material Excavation: There has not been any allowance made for removal of rock or other unforeseen buried material. These materials, if encountered, will be removed on a Unit Cost basis. Refer Bid Form.

MATERIALS - REFER TO SOILS REPORT Select Fill: Select fill shall consist of homogenous sandy clay soils free of organic or other deleterious matter, have a maximum clod size less than 2 inches. have a liquid limit less than 35 and plasticity index between 5 and 18 and less than 60 percent finer by weight passing a No. 200 sieve. All fill shall be placed in a maximum of 8" lifts within the range of (3%) three percentage point below to three percent (3%) point above the optimum moisture and compacted to a uniform Standard Proctor Density of 95% as determined by ASTM designation D698. Conduct in-place field density tests at a rate of one test per every 2,500 sq. ft. The edges of the compacted fill should extend at least 5 feet beyond the edges of the Building prior to sloping. Transition back to existing groundline on 3:1 slope. Refer to Soils Report on file at the office of the Architect and available on line.

1. Prepare the subgrade in accordance with the recommendations discussed in the Soils Report entitled BUILDING SUBGRADE PREPARATION. Sites that slope more than about 15% should be benched with 5-foot wide benches prior to placing

2. Place subsequent lifts of select fill in thin, loose layers not exceeding eight inches in thickness to the desired rough grade and compact to a minimum of 95% if the maximum density defined by ASTM D698. Maintain moisture within range of optimum -3% to optimum +3% 3. Conduct in-place field density tests at a rate of one test per 2,500 square feet for

the soil, which supports the structure, is properly placed. Prevent excessive loss of moisture during construction. 5. For select fill placed above the existing groundline, extend the lateral limits of the fill at least 5 feet beyond the perimeter of the building area, transitioning back to

the existing groundline on a 3:1 (horizontal/vertical) slope. Top Soil: Fertile, natural topsoil, free from debris, clay and weeds. On-Site topsoil shall be spread and raked smooth to a minimum thickness of 2" in all areas requiring supplemental topsoil and within 30' of the building. Topsoil shall be minimum 7" below finish floor and shall slope away minimum 6" in first 5'. All topsoil to be provided and

C. Grading: Grade earthwork to compliment the finish grades indicated. Maintain Construction grading at the Building to a minimum of 9" below Finish Floor to allow for topsoil placement

Storm and Sanitary Piping, other mechanical/electrical trenching: Cover pipe and bedding with Select Fill in 8 inch lifts, compacted to 95 percent.

#### INSTALLATION A. Refer Soils Report - Full copy available online and at the office of the Architect. END OF SECTION 02300

#### SECTION 02361 - TERMITE CONTROL SECTION INCLUDES

A. Soil treatment for termite control at interior and exterior foundation perimeter. Apply per manufacturer's instructions and recommended concentration 1. Applicator: Company specializing in performing the work of this Section with minimum three years' experience and licensed by the State of Texas.

WARRANTY A. Provide five year warranty in Owner's name signed by Applicator. Include coverage for damage and repairs to building and building contents caused by termites.

Data Sheets on proposed product and application instructions.

 B. Sample Warranty Form for review. 2.1 MATERIALS A. Manufacturers

> Control Solutions, Inc. - Bifen I/T Ensystex II, Inc. - Maxxthor SC BASF - Termidor as recommended by manufacturer. a. Toxicant Chemical: Local authority approved; synthetically color dyed to permit visual identification of treated soil.

b. Diluent: Recommended by toxicant manufacturer. Reapply soil treatment solution to areas disturbed by subsequent excavation or other

construction activities following application. INSTALLATION A. Treat soils as per manufacturer's recommendations. END OF SECTION 02361

### SECTION 02540 - SEPTIC SYSTEMS

**ASTM F 477** 

INSTALLATION

SECTION INCLUDES A. Tank, Distribution Box and Drainage Field are existing on site for a complete septic system. Provide material, labor, insurance, design and permits as needed to add the new Building onto the existing septic system.

B. Provide layout of the system for review by Owner prior to installation. SUBMITTALS A. Data Sheets, installation instructions and septic system design components.

# END OF SECTION 02540

SECTION INCLUDES Storm Sewage Systems from building to terminus. Underground downspout collector system. All piping to be Advanced Drainage System

SECTION 02630 - STORM SEWAGE DRAINAGE SYSTEMS

(ADS) or SDR plastic piping with minimum diameter of 3". IDENTIFICATION

A. Install continuous caution tape located directly over buried line at 6" to 8" below finished grade, during back-filling/top soiling operation. **SUBMITTALS** Product data on all materials and special pipe fittings. Shop Drawings: Plans, elevations and details.

MATERIALS A. ADS Pipe: Pipe shall be ADS N-12 pro-link ultra with watertight rubber gasket bell joints. Where pipe is beneath or within 5 feet of a building, pipe shall be ADS-N12 with watertight series 35 PVC coupler Polyvinyl Chloride (PVC) Sewer Pipe: ASTM D 3033, Type PSP, SDR 35; or ASTM D

3034, Type PSM, SDR 35; PVC fittings, ASTM D 3033 or D 3034; solvent cement joints complying with ASTM D 2855 using solvent cement complying with ASTM D 2564; or elastomeric joints complying with ASTM D 3212 using elastomeric seals complying with

A. Installation to meet all applicable codes.

END OF SECTION 02630 SECTION 02751 - CEMENT CONCRETE PAVING

SECTION INCLUDES A. Concrete Sidewalks/Flatwork: 3,000 psi 28 day concrete, 4 inches thick, with #3 a width of 4". Light broom finish typical - heavy finish at exterior ramps. Refer Details.

reinforcing bars at 16" o.c. each way. Thicken all concrete edges to 6" for a minimum of B. Curbs: 3,000 psi 28 day concrete in profiles and reinforcement as detailed, provide light C. Concrete Paving: 3,000 psi 28 day concrete, 4-8" thickness as indicated on plans, #3

D. Concrete Flumes: 3000 psi 28 day concrete, 4-6" thickness as indicated on plans, #3 bar einforcement at 16" o.c. both ways, light broom finish typical. Refer Details. All exterior concrete to receive 6% air entrainment,

bar reinforcement at 16" o.c. both ways, light broom finish typical - heavy finish at

Expansion joints shall be asphalt fiber of the same thickness as the concrete. Expansion joints are to have 18" #4 smooth dowels at 24" o.c. SUBMITTALS

Product data, design mixtures, material test reports. Material certificates for cementitious materials, steel reinforcement, admixtures, curing compounds, joint fillers etc. FORM MATERIALS A. Form Materials to be clean, straight and true.

REINFORCEMENT A. Reinforcing Steel shall be Grade 40 for #3's and Grade 60 for all other steel CONCRETE MATERIALS A. Concrete Materials: Provide mix design to match requirements scheduled above. Fly ash allowed, 20% maximum. Air Entrained. Water reducing additive. 5" maximum slump before plasticizers. Refer Soils Report.

ACCESSORIES A. Curing Compound: Sonneborn Kure-N-Seal. Place curing compound on exposed concrete surfaces immediately after finishing Joint Sealers: See Section 07900. Sealing of joints and cracks are critical! Expansion Joints: 1/2" x full height asphalt impregnated. Recess top of filler 1/2 inch for

sealant placement. Install zip strip to recess top of joint. Place expansion joints at 40' intervals or as noted on the drawings. D. Control Joints: Provide either steel or sawn control joints at 12' on center each way (O.C.E.W.) maximum or as noted on the drawings. Steel Control joints to be keyed with #4 dowels at 18" O.C. Top steel with vinyl pull strip. Pull and fill with joint sealant after concrete placement. Sawn control joints to be 1" deep and to be cut within 16 hours of concrete placement. E. Concrete Floor Sealer: Refer Section 09600. Note: The entire concrete floor will be

Concrete Patching Mortar: Speccrete, Speccopatch-RS from Concrete Earth or approved equal. <u>www.specco.com < http://www.specco.com></u>, 1-800-441-6646. TOLERANCES

Maximum Variation of Surface Flatness: 1/2 inch in 10 ft. B. Maximum Variation From True Position: 1/2 inch. Sidewalk Paving: Light broom, radius to ¼ inch radius and trowel joint edges. B. Direction of Texturing: Parallel to pavement direction.

Place curing compound on exposed concrete surfaces immediately after finishing. Apply in accordance with manufacturer's instructions. A. Immediately after placement, protect pavement from premature drying, excessive hot or cold temperatures, and mechanical injury. B. Do not permit vehicular traffic over pavement for 7 days minimum after finishing until 75

### percent design strength of concrete has been achieved. SECTION 03300 - CAST IN PLACE CONCRETE

SECTION INCLUDES A. The Work described in this section includes all installation of cast-in-place concrete slabs, equipment pads and miscellaneous site concrete. SUBMITTALS

A. Product data, design mix, steel reinforcement shop drawing for each type of product A. Ready - mixed concrete, ASTM C-94. Place concrete in accordance with ACI 304. All concrete shall have a minimum compressive strength of 3000 PSI at 28 days. Acceptable slump to be 4 inches +/- 1", before water reducers. Concrete not

naving an acceptable slump shall not be used and is to be disposed of off site at the Contractor's expense. Reinforcing Steel: All reinforcing steel shall be ASTM A615, 60 ksi yield grade; deformed billet steel bars. All reinforcing steel shall be free bond reducing agents C. Reinforcing mesh shall be Welded Steel Wire Fabric conforming to ASTM A185, in flat

ACCESSORIES A. Vapor Retarders: 10 mil thick, ASTM E 1745, Class A. Include manufacturer's recommended adhesive or pressure-sensitive tape. Lap joints minimum 6 inches. Repair vapor barrier damaged during placement of concrete reinforcing. Acceptable products: Stego Industries, LLC: Stego Wrap; or Reef Industries: Griffolyn; Tex-Trude, L.P.: Xtreme Vapor Barrier or approved equal

Non-Shrink Grout: Sonogrout capable of developing minimum compressive strength of 10,000 psi in 28 days. C. Curing Compound: Sonneborn Kure-N-Seal. Place curing compound on exposed concrete surfaces immediately after finishing.

Joint Sealers: See Section 07900 E. Expansion Joints: ½" x full height asphalt impregnated. Recess top of filler 1/2 inch for sealant placement. Install zip strip to recess top of joint. Place expansion joints as noted Control Joints: Provide either steel or sawn control joints at 12' O.C.E.W maximum or as noted on the drawings. Steel Control joints to be keyed with #4 dowels at 18" O.C. Top steel with vinyl pull strip. Pull and fill with joint sealant after concrete placement. Sawn control joints to be 1" deep and to be cut within 16 hours of concrete placement.

G. Tie Wire: Minimum 16 gauge annealed type. H. Rebar Chairs: Sized and shaped for strength and support of reinforcement during concrete placement 5" Thick slab: 2" tall plastic chairs

Grade beams: 3" tall plastic chairs supplemented with brick as required. G. Concrete Floor Sealer: Concrete Floor Sealer: Refer Section 09600. Note: The entire concrete floor will be exposed. H. Concrete Patching Mortar: Speccrete, Speccopatch-RS from Concrete Earth or

approved equal. INSTALLATION A. Concrete shall be placed as to completely cover all reinforcing steel.

 Minimum concrete coverages of steel reinforcement: Concrete placed against earth Formed concrete against earth Beams to ties & stirrups

Top of slab All reinforcing bar splices shall be a minimum of 40 bar diameters. C. Provide corner bars in all beams where applicable. Corner Bars shall be the same size as main beam steel, cold bent and shall overlap beam bars 30 bar diameters. D. Placement of concrete on site in hot weather must occur within 45 minutes maximum

after proportioning materials at batch plant. Cool weather placement must occur no more than 60 minutes after proportioning materials at batch plant. Place concrete continuously between predetermined expansion, control, and construction joints.

Do not interrupt successive placement; do not permit cold joints to occur. G. Screed floors and slabs on grade level, maintaining surface flatness of maximum 1/4 inch END OF SECTION 03300

SECTION 06100 - ROUGH CARPENTRY SECTION INCLUDES A. Provide and install wood blocking and associated fasteners and hardware.

Wood Blocking and Furring Plywood: APA, Structural Hardware MATERIALS

A. Wood Framing, Blocking and Furring

1. Sole Plates and all wood in contact with the concrete or wet conditions shall be preservative treated for the specific application. Framing materials shall be #2 or better except that studs may be finger joint. Providing blocking for all toilet room equipment including grab bars and other wall mounted toilet or miscellaneous equipment. Coordinate exact location with all involved trades. Attach to substrates to support applied loading. Countersink bolts

and nuts flush with surfaces, unless noted otherwise. B. Plywood: APA rated for the intended use Concealed Applications: CDX plugged INT 3/4" minimum thickness. Telephone/Electrical Panels: B-C plugged INT , 3/4" minimum thickness.

 C. Structural Hardware Provide size and type recommended by the manufacturer for the intended application. Where rough carpentry work is exposed to weather, in ground contact, or in area of high relative humidity, provide fasteners and anchorages with a hot-dip zinc coating. ACCESSORIES A. Fasteners and Anchors:

Fasteners: Hot dipped galvanized zinc coated steel ASTM A153 for high humidity and treated wood locations, unfinished steel elsewhere. Anchors: Bolt or ballistic fastener for anchorages to steel Provide size, type, material and finish as recommended by applicable standards, complying with applicable Federal Specifications for anchoring devices. Provide metal hangers and framing anchors of the size and type recommended by

FACTORY WOOD TREATMENT A. Wood Preservative (Pressure Treatment): Borate plant applied treatment. Preservative Treat indicated items and the following: wood nailers, curbs, blocking, coping members and similar members in connection with roofing, flashing and waterproofing. Wood blocking, furring and similar concealed members in contact with masonry or concrete.

the manufacturer for each use including recommended nails.

A. Set members level and plumb, in correct position, Place horizontal members flat, crown side up, space framing 16 inches o.c. unless noted otherwise, Use full length pieces where possible END OF SECTION 06100

SECTION 06200 - FINISH CARPENTRY

SECTION INCLUDES Finish carpentry items, other than shop prefabricated casework. Perform work in accordance with AWI Custom quality.

SUBMITTALS Shop Drawings: Indicate materials, component profiles, fastening methods, joining details and accessories. Provide instructions for attachment hardware. LUMBER MATERIALS

Softwood Lumber: PS 20; Graded in accordance with AWI Economy, No. 2 Southern Pine, maximum moisture content of 15 percent. Provide at painted conditions. Hardwood Lumber: Graded in accordance with AWI Custom Quality, maximum moisture content of 15 percent; plain sawn grain, of quality suitable for transparent finish. SHEET MATERIALS

Hardwood Plywood: AB Grade birch veneer, Graded in accordance with AWI Custom veneer core, type of alue recommended for application PLASTIC LAMINATE MATERIALS

Plastic Laminate: AWI, 0,040 inch Post Forming General Purpose quality; color, pattern. and surface texture as selected; Wilsonart manufactured by Ralph Wilson Plastics Co. or approved equal.

Adhesive. Type recommended by laminate manufacturer to suit application. CABINET HARDWARE AND ACCESSORIES Provide cabinet hardware and accessory materials for a complete installation of

architectural woodwork, Refer Section 06400. FARRICATION Fabricate to AWI Custom standards. Shop assemble work for delivery to site, permitting passage through building openings. Cap exposed plastic laminate finish edges with material of same finish and pattern. Shop prepare and identify components for vertical grain matching during site erection.

When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting. Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline: secure with concealed fasteners. Locate counter butt joints minimum 2 feet from sink cutouts.

Apply laminate backing sheet to reverse side of plastic laminate finished surfaces. Maximum Variation from True Position: 1/8 inch. Maximum Offset from True Alignment with Abutting Materials: 1/8 inch. FXAMINATION Verify adequacy of backing and support framing for all wood trim and items for

Verify location and sizes of utility rough in associated with work of this section. Storage and Protection: Wood Trim shall be protected in transit. Store under cover in a ventilated building not exposed to extreme temperature and humidity changes. Do not store or install in building until concrete, masonry, and plaster work is dry. Erect trim straight, level and plumb and securely anchored in place. Scribe and

closely fit to adjacent work. Cut and fit around pipes, ducts, etc.

Glue and double nail wood chair rail to wall. Use finish screws appropriate for either wood or metal studs, countersink and putty for application of paint or stain. Review finish schedule. B. Leave surface clean and free from defects at time of final acceptance. Clean up: Remove all cartons, debris, sawdust, scraps, etc., and leave spaces clean

#### END OF SECTION 06200 SECTION 06450 - CUSTOM WOOD CASEWORK - PAINTED

and all ready for Owner's use.

SECTION INCLUDES Millwork including cabinet hardware. Preparation for installing plumbing and electrical in millwork.

1.2 A. Shop Drawings: Indicate materials, component profiles and elevations, assembly methods, joint details, fastening methods, accessory listings, hardware location and schedule of finishes. Include plumbing and electrical locations, edge protection, locks and supports.

Samples: Submit two samples, illustrating cabinet finish. Wood Millwork to be Site Finished. Cabinet Lumber: Graded in accordance with AWI custom; average moisture content of 8 percent; species and grade as follows: Painted Cabinets: Birch

Hardware Finish: Brushed Chrome Cabinet Frame & Drawer Fronts: 3/4" Solid Stock 3/4" A-B Veneer Core Cabinet Sides & Doors: Plywood with Hardwood Drawer Sides & Backs: 7/16" premanufactured Fiberboard Drawer Sides Drawer Bottoms: 1/4" Temp. Hardboard Cabinet Backs against the wall: 1/4" Temp. Hardboard Cabinet Backs, Visible 3/4" A-B Plywood Cabinet Tops & Splashes: 19/32" B-C Pine Plywood, <24" wide 19/32" B-C 8. Shelves: Plywood, APA with Hardwood Edgeband >24" wide 19/32" B-C Plywood, APA with 1x2 Hardwood Edge Cabinet Door Hinges: European 120 degree Drawer Pulls: 4" Wire Pull 13 Drawer Guides: Box drawer slides: No. KV8450 FM Soft Close Slide - full extension -14. Shelf Supports: K & V #255 & #256 15. Catches: Magnetic, BHMA A156.9, B03141 one at top of each cabinet door. Grommets 3" black plastic.

17. Countertop Supports: A&M Hardware, Work Station support, 18"x24", 12 GA. Painted white Edge Bands: Matching face veneers on exposed edges of shelves. Edge bands to be concealed type, pressure glued in place with no railing allowed. Ease visible edges by

Reference Millwork details and referenced standards for standards of construction. FABRICATION Shop assemble millwork for delivery to site in units easily handled and to permit passage through building openings. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

EXAMINATION Verify adequacy of backing and support framing. Verify location and sizes of utility rough in associated with work of this section. INSTALLATION

Set and secure casework in place; rigid, plumb, and level. Use fixture attachments in concealed locations for wall mounted components. Use concealed joint fasteners to align and secure adjoining cabinet units, counter tops. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch.

Do not use additional overlay trim for this purpose Secure cabinet to floor using appropriate angles and anchorages. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces. Sand work smooth and set exposed nails and screws. Apply wood filler in exposed nail and screw indentations.

GUARANTEE All materials to be guaranteed for period of one year from manufacturer's defects and CLEAN UP Remove all cartons, debris, sawdust, scraps, etc., and leave spaces clean and all

#### casework ready for Owner's use. END OF SECTION 06450 SECTION 06600 - PLASTIC FABRICATIONS

SECTION INCLUDES A. 1. Plastic Laminate Countertops & Miscellaneous Applications. SUBMITTALS Submit full range of colors and patterns for each product used. Review location of seams

and back splash details etc. MATERIALS Plastic Laminate Countertops: Plastic Laminate shall be manufactured by Wilsonart, Formica, Pionite, Nevamar or an Architect approved equal. Color Selection by Owner from all standards available

Plastic Laminate Countertops: Install all laminate with as few seams as possible. Provide 4" tall back splashes and end splashes where possible Locate Countertop butt joints a minimum of 2'-0" from sink cutouts. SCHEDULE A. Refer Finish Schedule on drawings for locations and colors of laminate.

#### END OF SECTION 06600 SECTION 07210 - BUILDING INSULATION

Fill wall cavity to full thickness.

INSTALLATION

SECTION INCLUDES Acoustical insulation in interior walls. Provide complete thermal envelope. Thermal Batt Insulation: ASTM C665; preformed glass fiber batt conforming to the following Thermal Resistance: R 11 (3 1/2"), R 19 (6 1/4") as noted on the drawings.

Batt Size: Full width and depth of cavity and longest length possible.

Facing: Foil faced FSK-25 when exposed, unfaced when concealed condition For all other insulation Refer 13122 - Metal Building Systems SUBMITTALS Product Data: Cut sheets on all specified insulation and accessories. MANUFACTURERS - INSULATION MATERIALS

Owens-Corning Fiberglass Corporation, CertainTeed or Johns Manville.

PRODUCTS

A. Acoustical Insulation: Noise Reduction Coefficient of 1 Walls: 3-1/2" unfaced for sound attenuation. B. Seal all cracks, gaps and wall and roof penetrations with foamed in place polyurethane

Caulk all exterior Base Plates, corners, tees or other small cracks in order to provide a "tight" building envelope. INSTALLATION

Install insulation in accordance with insulation manufacturer's instructions. Install in exterior or interior walls without gaps or voids. Do not compress. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids Fit insulation tight in spaces and to exterior side of mechanical and electrical services.

Retain batt insulation where with wire mesh secured to framing members if required, Metal Framing: Friction-fit insulation between studs after cover material has been installed on one side. Use wire or metal straps to hold insulation in place in applications back of stud will not be enclosed. END OF SECTION 07210

SECTION 07600 - FLASHING AND SHEET METAL SECTION INCLUDES

Pac-Clad - Peterson Aluminum Corporation

A. Counter flashings and flashing covers, Roof flashing and roof penetration trim, Parapet Cap, Flexible flashings. SUBMITTALS

A. Shop Drawings: indicate material profile, jointing pattern and details, fastening methods, flashings, terminations and installation details Sample - Submit one sample illustrating typical material, finish and color. MANUFACTURERS MBCI - Metal Building Components, Inc.

Buildex - Flexible Flashings and Screws. APM Hexseal - Self Sealing Rivets. MATERIALS A. Galvanized Steel Sheet Material: ASTM A446, Grade A, 24 Gauge; zinc coating finish. ACCESSORIES

A. Fasteners: Same material and finish as flashing metal in sections as detailed EXAMINATION A. Verify roof openings, curbs, pipes, sleeves, ducts, or vents through roof are solidly set in place, and nailing strips located. Verify roofing termination and base flashings are in place, sealed, and secure.

PREPARATION Install starter and edge strips, and cleats before starting installation. Install surface mounted reglets true to lines and levels. Seal top of reglets with sealant. INSTALLATION A. Conform to details in SMACNA manual. Install flexible flashings to manufacturer's

instructions. Secure flashings in place using concealed fasteners. Apply plastic cement compound between metal flashings and felt flashings. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to profiles.

F. Insert flashings into reglets to form tight fit. Secure in place with metal edges and seal with sealant. G. Solder metal joints for full metal surface contact. After soldering, wash metal clean with neutralizing solution and rinse with water. Install flexible flashings with screws where screws will not inhibit panel movement. Use

self sealing rivets where panel movement will be inhibited by screws. SCHEDULE Material Gauge Finish Location Steel 24 Kynar 500 or Hylar 5000 Flashings Roof Flashings & Trim Steel 24 Kynar 500 or Hylar 5000 Steel 24 Kynar 500 or Hylar 5000

DekStrip for linear conditions where metal flashing is not sufficient.

Flexible Flashings - Paint to match adjacent material. Dektite for round roof penetrations.

END OF SECTION 07600 SECTION 07712 - GUTTERS AND DOWNSPOUTS

SECTION INCLUDES

MANUFACTURERS

SUBMITTALS

Seal metal joints watertight

Gutters and downspout fabrication and installation SUMBITTALS A. Shop Drawings: indicate locations and sizes of all gutters, down spouts and all B. Provide color samples from a full range of standard colors and a sample of actual

Manufacturers: MBCI - Metal Building Components, Inc. PAC-CLAD - Peterson Aluminum Corporation. MATERIALS Steel Sheet Material: 24 Gauge, Prefinished steel gutter 0.032" thick comparable to National Sheet Metal Inc., Kynar finish 877-GET-METL or Hylar 5000 prefinished, color

to be selected from standard colors B. Gutters are to be 5 1/4" wide x 5 1/2" tall Box Gutters similar to MBCl part T-5261. Style "A" from SMACMA Manual Downspouts are to be 3 ½" deep x 4" wide similar to MBCI part T-5311. Provide 45 degree kick out at the bottom unless otherwise detailed on the plans. Locate Downspouts as per Plans.

D. Downspout Straps are to be a minimum of 1" tall x 3" deep x 4" wide and spaced as required but not more than 5' o.c.. E. Downspout Boots: To connect to underground drainage system. Refer 02630. ACCESSORIES A. Fasteners: Same material and finish as flashing metal in sections as detailed.

B. Mastic: As recommended by the product manufacturer. END OF SECTION 07712

SECTION 07900 - JOINT SEALERS, DAMPPROOFING AND WATERPROOFING SECTION INCLUDES Preparing substrate surfaces, sidewalk, floor, wall and ceiling joints, sealant and joint

A. Product Data: Provide cut sheets for each product specified including limitations and manufacturer's installation instructions Samples: Submit one sample of color availability. SEALANTS - Colors as selected by Architect A. Concrete Sidewalk, Curb, Paving Horizontal Joints: Pecora Corporation, NR-200.

Sonneborn Building Products, Sonolastic SL-1-self leveling polyurethane. Tremco Sealant Systems, THC-900. B. Interior Floor, Wall, Flashing, Sill and Ceiling (non-fire rated): Pecora Corporation, AC-20. Sonneborn Building Products, Sonolac®. Tremco Sealant Systems, Latex 834. C. Concrete Curb Vertical Joints, Exterior Wall, Flashing and Sill:

Pecora Corporation, Dynatrol I. Sonneborn Building Products, Sonolastic NP 1. Tremco Sealant Systems, Dymonic. D. Sealant Backer Rod: Pecora Corporation, Ethafoam®.

Sonneborn Building Products, Sonofoam. MISCELLANEOUS MATERIALS Joint Primer/Sealer: Provide type of joint primer/sealer recommended by sealant manufacturer for joint surfaces to be primed or sealed. B. Bond Breaker Tape: Provide polyethylene tape or other plastic tape as recommended by sealant manufacturer to be applied to sealant-contact surfaces where bond to substrate

or joint filler must be avoided for proper performance of sealant. Provide self-adhesive tape where applicable. Take special care to coordinate installation over asphalt impregnated expansion material with manufacturer for proper approved installation C. Mastic: Apply in accordance with manufacturer's written instructions. Sonneborn, Hydrocide Mastic

D. Primer: As recommended by Sonneborn or W.R. Meadows for the proper installation of their products. END OF SECTION 07900

W.R. Meadows, Sealmastic Emulsion, Type 3.

SECTION 08259 - PRE-HUNG DOORS IN WOOD OR COMPOSITE FRAMES SECTION INCLUDES A. Interior Wood doors.

reinforcement. Shop Drawings: Indicate door elevations, internal reinforcement, closure method and cutouts for glazing, louvers and finish. Manufacturer's Installation Instructions: Indicate special installation instructions. D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

A. Pre-hung units, primed hinges, flush panel solid core wood interior doors. 1 3/8"

Product Data: Indicate door configurations, location of cutouts for hardware

thickness bore for lockset, for paint. Refer Plans. Exterior Doors by Metal Building Manufacturer. Refer 13122. Note: Doors shall have air infiltration rates not to exceed 0.5 cubic feet per minute per square foot of door area. Provide lite pattern as per Exterior Elevations and Door Schedule A. Exterior doors to have weatherstripping all sides. Refer Door Schedule.

#### B. Rubber tipped door stops - installed. END OF SECTION 08259 SECTION 08700 - DOOR HARDWARE

SUBMITTALS

SECTION INCLUDES Door Hardware B. Weather stripping, seals and door gaskets.

1.2 SUBMITTALS A. Product Data: Manufacturer's product data sheets including installation instruction details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Detail fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate with doors, frames and related work to ensure proper size, thickness, hand function and finish of door hardware.

C. Shop Drawings: Provide keying schedule, location of each hardware set cross referenced to drawings. Explanation of codes and abbreviations, mounting locations, door and frame sizes and materials.

SUPPLIERS A. Manufacturer: Schlage, Russwin, Falcon, PDQ, Trimco or an Architect approved equal.

A. Door Locks: Keyed as per Owner. Allow for 3 key levels

B. Keep key system secure. Exterior locks are to be keyed for construction access and

re-keyed for final system once all work is complete

FINISHES

END OF SECTION 08700 SECTION 08800 - GLASS AND GLAZING SECTION INCLUDES

A. Finishes: US 26D Satin Chrome.

A. Interior Fixed Glass and Mirrors 1.2 SUBMITTALS A. Product Data: Submit manufacturer's product data, including performance characteristics and installation instructions B. Shop Drawings: Submit plans, elevations, sections and details indicating glass

dimensions, tolerances, types, thickness and coatings Samples: Submit manufacturer's samples of each type, thickness and coating. GLASS MATERIALS A. Manufacturers:

Saint-Gobai Libby-Owens-Ford. Pittsburg Plate Glass

American Flat Glass B. Interior Fixed Glass: 1/4" Clear, tempered safety glass as required by code or noted on C. Mirrors: 1/4" float plate, federal standard test 151, method 811-1, shall conform to U.S.

Department of Commerce Commercial Standard DDM 411 grade 1. GLAZING ACCESSORIES A. Mirror Trim: J mold, chrome finish. Continuous top, bottom and sides.

B. Mirror Adhesive: Palmer Mirror Mastic.

END OF SECTION 08800

United States Gypsum Co.

lateral bracing for tall walls

Steel Screw Fasteners:

1.1 SECTION INCLUDES

Architect prior to use.

C514-84.

attaching to wood studs.

Gold Bond Building Products

Schedule of Wall Types and gauges.

and Women's Rooms. Refer G1.1

SECTION 09100 - METAL STUD FRAMING SYSTEM SECTION INCLUDES 1.1 A. Load and non-load bearing formed steel stud exterior wall, interior wall. Framing accessories - framing and bridging.

Steel hat channels. 1.2 SUBMITTALS A. Product Data: Provide data describing standard framing member materials and finish product criteria and limitations. Shop Drawings: Indicate component details, stud layout, frame openings, anchorage to

A. Mirrors to be placed on top of the 4" backsplash and run wall to wall in both the Men's

structure, type and location of fasteners and accessories or items required of other related work. Submit gauge of studs for each location C. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention MANUFACTURERS

Delta Metal Products Dietrich Marino Ware STUD FRAMING MATERIALS - Refer Wall Types Legend on Drawings A. Framing System Components: ASTM C645. ASTM C955, provide 20 gauge minimum at all exterior walls, fur downs and column wraps, unless noted otherwise - Gauges will vary around building, submit for review by Architect/Engineer. Refer Drawings for

other interior partitions, unless noted otherwise. Provide hat furring channels in depths and gauges as detailed on the drawings. B. Runners: Of same material and thickness as studs, bent leg retainer notched to receive studs with provision for crimp locking to stud. Ceiling Runners: With extended leg

C. Furring and Bracing Members: Of same material as studs; thickness to suit purpose.

Provide 2" 20 gauge at Flange strap for unbraced Flanges and 1-1/2" channel horizontal

1. 20 gauge full height minimum at interior door jambs; 25 gauge minimum at all

All fasteners are to be rust resistant GA 203 and meet ASTM C1002-83 and ASTM C514-84 Install number of screws required for the connection Framing Screws: #6 x 7/16" pan head, one each side top and bottom minimum, unless noted

Non-Structural Studs - Galvanize to G40.

Self drilling, self tapping screws - as specified. E. Acoustic Sealant: Tremco, Acoustical Sealant or Pecora AC-20 FINISHES A. Studs:

Structural Studs - Galvanize to G60

Exterior Exposed - Galvanize to G90.

B. Tracks and Headers: Galvanize to G90 coating class. Accessories: Same finish as framing members. END OF SECTION 09100 SECTION 09250 - GYPSUM BOARD SYSTEM

A. Gypsum board (regular and fire rated) and sheathing. SUBMITTALS A. Product Data: All products utilized in this section must be certified in writing as being manufactured in the United States. B. Shop Drawings: Indicate special details.

2.1 MANUFACTURERS - GYPSUM BOARD SYSTEM A. USG, Gold Bond Building Products, Georgia Pacific, Temple-Inland and CertainTeed GYPSUM BOARD MATERIALS A. Standard Gypsum Board: ASTM C1396; maximum permissible length; ends square cut, tapered edges. Thickness 5/8" Refer Drawings.

B. Fire Rated Gypsum Board: ASTM C1396; fire resistive type, UL rated; maximum

permissible length; ends square cut, tapered edges. Thickness 5/8". Moisture Resistant Gypsum Board: GP Dens Armor Plus Paperless Drywall, USG Securock or CertainTeed ProRoc M2Tech Gypsum Board, ASTM C1396; maximum permissible length; ends square cut, tapered edges - in wet areas and at window sills/jambs. Thickness 5/8". Green Board not acceptable. Wet areas are walls within 10' of a shower, walls within 4' of a layatory or sink and walls behind toilets and urinals that do not receive porcelain 2.3 ACCESSORIES

Acoustical Insulation: Refer to Section 07210. Coordinate installation. Acoustical Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board: AC-20 manufactured by Pecora Corporation, Sound Control Sealant by Miracle. Tremco, Acoustical Sealant or SCS-100 or GreenGlue by Saint-Gobain Performance Plastics. Apply sealant at the bottom of all wall tracks, interior and exterior, both sides, C. Vinyl Edge Trim: Metal Edge Trim may be substituted with a submittal and approval by

Tear Away "L" Bead Trim-Tex 9010 at all terminations next to prefinished Mud on Ceiling Grid: Trim-Tex 5010 where indicated. Mud on "J" Mold: Trim-Tex 1810 at all showers, tub enclosures and skylights. Other Trim-Tex specialty moldings as required or detailed. Vinyl Edge Trim Adhesive: Trim-Tex 847 Spray Adhesive

"L" Trim: Trim-Tex #3210 Vinyl L-type trim beads

Corner Beads: Trim-Tex JO10 Jumbo Vinyl corner bead 1 3/4" x 1 3/4".

provide rated control joints, refer details on drawings Reveal Joint Trim-Tex Vinyl 5110 Reveal Bead Steel Screw Fasteners All fasteners are to be rust resistant and meet ASTM C1002-83 and ASTM

Install number of screws required for the connection.

Gypsum Board Installation for assemblies rated 1 Hour or less.

E. Expansion/Control Joint Materials: Trim-Tex Vinyl 093V Expansion Joint. In rated walls

Framing Screws: a. #6 x 7/16" pan head, one each side top and bottom minimum. Gypsum Wallboard framing: a. #8 x 1 1/4" Phillips head, one layer of gypsum board. b. #8 x 1 5/8" Phillips head, two layers of gypsum board Use Type "S" screws for attaching gypsum to metal studs and Type "W" when

Metal Edge Trim to Gypsum wallboard: a. #8 x 1 1/4" Phillips head, 5/8" minimum penetration into metal back up. INSTALLATION OF GYPSUM BOARD NOTE: Refer to the UL Fire Resistance Directory and the product manufacturer's instructions for additional requirements for all fire rated assemblies

Gypsum panels shall be installed vertically on all walls under 10'. Submit joint layout for all walls over 10'-0" for approval B. Gypsum panels applied vertically or horizontally. The gypsum board is to be installed on each side of the studs with coated steel screws spaced 8" O.C. starting 4" from the edge of the board at the edges and 12" O.C. starting 6 in. from the edge of the board in the field of the board. C. All fasteners along joints shall be staggered 4" from the fasteners on the adjacent panel.

Gypsum boards are to be secured to the top and bottom track with screws spaced 8"

O.C. starting 4" from the board edge. Vertical joints are to be centered over studs and

staggered one stud cavity on opposite sides of studs. D. Carefully cut gypsum panels to tightly fit around electrical boxes, conduits, pipes, ducts and other items which may be part of the finished assembly. Maximum allowable space E. Gypsum panels are to be spaced a maximum of ½" off the floor and all spacers are to be

removed by the gypsum board installer JOINT TREATMENT & SMOOTHING - Refer Section 09260 END OF SECTION 09250





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DSB 11/29/2016