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1. American National Standards Institute (ANSI)  
 2. American Society of Hardware Consultants (ASHC)  
 3. Builders Hardware Manufacturers Association (BHMA)  
 4. Federal Specifications (FS)  
 5. National Builders Hardware Association (NBHA)  
 B. Supplier: Per a national account agreement, all material in this section is to be purchased and installed by the General Contractor from Girtman & Associates 7115 Cockhill Bend Blvd. Nashville, TN 37209 Ph (615) 350-6000 Contact: Donna Howard AHC.  
 C. Fire-rated openings:  
 1. Provide hardware for fire-rated openings in compliance with NFPA Standard No. 80. Provide only hardware which has been tested and listed by UL for type and sizes of doors required and complies with requirements of door and door frame labels.  
 2. Where emergency exit devices are required on fire-rated doors, provide UL label on exit devices indicating Fire Exit Hardware.  
 D. All hardware shall be provided in accordance with the requirements of the Americans with Disabilities Act (ADA).

1.03 SUBMITTALS:  
 1. Maintenance manual: Provide maintenance manual for all items of hardware. See Section 01300 for type of manual.

1.04 PRODUCT HANDLING:  
 A. Packaging:  
 1. Furnish all finish hardware with each unit clearly marked or numbered in accordance with the hardware schedule.  
 2. Pack each item complete with all necessary pieces and fasteners.  
 3. Properly wrap and cushion each item to prevent scratches during delivering and storage.  
 B. Delivery: Deliver all finish hardware to the installers in a timely manner to ensure orderly progress of the total Work.

1.05 JOB CONDITIONS:  
 A. Coordination: Coordinate hardware with other work. Tag each item or package separately, with identification related to the final hardware schedule, and include basic installation design for use on doors and frames of the thicknesses, profile, swing, security and similar requirements indicated, as necessary for proper installation and function. Deliver individually packaged hardware items at the proper times to the proper locations (shop or Project site) for installation.  
 B. Templates: Furnish to any and all affected Trades all required templates, reinforcing units, and information as necessary to properly reinforce, drill and tap as required for proper attachment and anchorage, where necessary, physical templates shall be furnished.

**PART 2 - PRODUCTS**

2.01 FASTENERS:  
 A. Furnish all finish hardware with all necessary screws, bolts, and other fasteners of suitable size and type to anchor the hardware in position for long life under hard use.  
 B. Furnish fastenings where necessary with expansion shields, toggle bolts, sex bolts, and other anchors approved by the Architect, according to the materials to which the hardware is to be applied and the recommendations of the hardware manufacturer.  
 C. All fastenings shall harmonize with the hardware as to material and finish.

2.02 FINISH:  
 A. As called for  
 B. Door closers and brackets shall have commercial sprayed finish to match other hardware.

2.03 KEYING:  
 A. All locks shall be Grand Master keyed, and Master keyed as directed by the Architect. All cylinders shall 7 pin interchangeable core with restricted keyway.

2.04 BUTT HINGES:  
 A. Provide in non-ferrous material for all exterior doors. All interior doors, unless otherwise indicated in the hardware sets, shall be manufactured of steel, plated to match adjacent hardware. All hinges shall be full ball bearing with non-rising pins. Finish to be 2B3.  
 B. Acceptable manufacturer:  
 1. Hager

2.05 CYLINDRICAL LOCKSETS:  
 A. Locks shall be meeting ANSI A156-2 1976 Grade 1 requirements. Where required and specified in hardware sets, non-ferrous locksets shall have stainless steel chassis. Locks shall be regularly furnished for 1-3/8" to 2" doors, available for doors up to 2-1/2" thick. Locks shall be listed for all classes labeled doors. Finish to be 626  
 A. Acceptable manufacturers:  
 1. Falcon

2.06 TOUCH BAR EXIT DEVICE:  
 A. Provide with horizontal housing and trim base of extruded aluminum. The lock stile chassis, back plate and end caps shall be forged aluminum, with latching of forged bronze. The device shall be non-handed with horizontal and vertical roller bearings to minimize friction and provide a uniform smooth operation along the entire surface of the touch bar. Device shall have one point positioning dogging accomplished by one eighth turn of dog key. Finish to be 32D.  
 B. Acceptable manufacturers:  
 1. Monarch

2.07 DOOR STOPS:  
 A. Floor stops shall be furnished whenever possible. Where floor stops cannot be used effectively, wall stops shall be used as applicable. Finish to be 2B3  
 B. Acceptable manufacturers:  
 1. Hager

2.08 DOOR CLOSERS:  
 A. Closers shall be rack and pinion construction with both rack and pinion of heat treated steel. Case shall be cast hydraulic iron. Closing the door shall be controlled with fully adjustable backcheck. Valves shall be of neoprene valve type and concealed against unauthorized adjustment.  
 Where delayed action closer are specified, indicate hand of door to insure valve will be positioned at top of closer for concealment. Closers shall be surface applied with rectangular cover, projection not over 2-3/4" and capable of being applied on 1-3/4" top rail or top jamb for inverted mounting. All closers shall be covered by a written 10-year guarantee from manufacturer. Finish to be aluminum  
 B. Acceptable manufacturers:  
 1. LCN

2.09 DOOR SILENCERS:  
 A. Provide 3 for each single door and 2 for each pair of doors.

2.10 THRESHOLDS AND WEATHERSTRIPPING:  
 A. Acceptable manufacturers: Finish to be aluminum  
 1. Hager (specified numbers)

2.11 KEY CABINET:  
 A. Provide complete with all systems components and instructions. Cabinet capacity shall be to 50% in excess of actual requirements.  
 B. Approved manufacturer: Teltek

**PART 3 - EXECUTION**

3.01 INSTALLATION:  
 A. Mount hardware units at heights indicated in Recommendations section for Builders Hardware for Standard Steel Doors by the Door Hardware Manufacturers Association, except as specifically indicated or required to comply with governing jurisdiction and code as may be otherwise directed by Architect.  
 B. Install each hardware item in compliance with manufacturer's instructions and recommendations. Wherever cutting, drilling or grinding is required install hardware onto or into surfaces which are later to be painted or finished in any way, coordinate removal, storage and reinstallation or application surface finishing work specified in the Division 9 sections. Do not install surface-mounted items until finishes have been completed on the substrate.  
 C. Set all hardware in plumb and true, plumb and true. Adjust and reinforce the attachment substrate as necessary for proper mounting and operation.  
 D. Drill and countersink units which are factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

3.02 ADJUST AND CLEAN:  
 A. Adjust and clean each operating item of hardware and each door, to ensure proper operation and function of every unit. Replace units which cannot be adjusted to operate freely and reliably as intended for the application made.  
 B. Final adjustment: Whenever hardware installation is made more than one month prior to acceptance of occupancy of a space or area, return to the work during the week prior to acceptance of occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

C. Instruct Owner's personnel in proper adjustment and maintenance of hardware and hardware finishes, during the final adjustment of hardware.

**KEYING INFORMATION**

CKA CONSTRUCTION CYLINDER CORES ( GREEN ) KEYPD ALIKE  
 1AA PERMANENT CYLINDER CORES KEYPD ALIKE ( ALL CYL EXCEPT MGR OFFICE )  
 SKD01 SINGLE KEYPD DIFFERENT ( KEY ONLY AT MGR OFFICE )

**08810 - GLAZING**

**PART 1 - GENERAL**

1.01 SCOPE:  
 A. Provide all of the labor, materials, equipment and services to furnish and install the glass and glazing accessories.  
 B. It is the intent of the Documents that all units shall be glazed so that there will be no passage of air or moisture. The Contractor shall provide whatever materials are necessary, whether specified or not, to achieve this condition.

1.02 SYSTEM PERFORMANCE REQUIREMENTS:  
 A. Provide glazing systems that are produced, fabricated, and installed to withstand normal thermal movement, wind loading, and impact loading (where applicable), without failure including loss or glass breakage attributable to the following:  
 1. Defective manufacture, fabrication, and installation.  
 2. Failure of sealants or gaskets to remain watertight and airtight.  
 3. Deterioration of glazing materials.  
 4. Other defects resulting in construction.

1.03 QUALITY ASSURANCE:  
 A. Codes and standards:  
 1. In addition to complying with all pertinent codes and regulations, comply with all pertinent recommendations contained in the "Manual of Glazing" of the Flat Glass Marketing Association (FGMA).  
 2. Comply with all the requirements of the Safety Standard for Architectural Glazing Materials (16 CFR 1201) as issued by the Consumer Product Safety Commission.  
 3. Insulating glass: SIGMA TM-3000 A Vertical Glazing Guidelines.  
 4. Safety glass: Products complying with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials.  
 B. Engage an experienced glazier who has completed glazing similar in material, design, and extent to that indicated for Project with a record of successful in-service performance.  
 C. Single-source responsibility: Obtain glass from one source for each product indicated below:  
 1. Primary glass of each type and class indicated.  
 2. Heat-treated glass of each condition indicated.  
 3. Insulating glass of each construction indicated.  
 D. Single source responsibility for glazing accessories: Obtain glazing accessories from one source for each product and installation method indicated.

1.03 SUBMITTALS:  
 A. Prior to fabrication, submit to the Architect for review the following:  
 1. Physical sample: 12" square samples of each type of glass indicated (except for clear monolithic glass products) and 12" long samples of each color required (except black) for each type of sealant or gasket exposed to view. Install sealant or gasket sample between two strips of material representative in color of the adjoining framing system.  
 2. Manufacturer's literature completely describing each product.  
 3. Product certificates signed by glazing materials manufacturer's certifying that their products comply with specified requirements.  
 4. Separate certifications are not required for glazing materials bearing manufacturer's permanent labels designating type and thickness of glass, provided labels represent a quality control program approved by a recognized certification agency or independent testing agency acceptable to authorities having jurisdiction.  
 5. Compatibility and adhesion test reports from sealant manufacturer indicating that glazing materials were tested for compatibility and adhesion with glazing sealants. Include sealant manufacturer's interpretation of test results relative to sealant performance and recommendations for primers and substrate preparation needed for adhesion.  
 6. Compatibility test report from manufacturer of insulating glass edge sealant indicating that glass edge sealants were tested for compatibility with other glazing materials including sealants, glazing tape, gaskets, setting blocks, and edge blocks.  
 7. Product test reports for each type of glazing sealant and gasket indicated, evidencing compliance with requirements specified.  
 8. Maintenance data for glass and other glazing materials to include in operating and maintenance manual.

1.04 DELIVERY, STORAGE, AND HANDLING:  
 A. Protect glazing materials to comply with manufacturer's directions and as needed to prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

1.05 PROJECT CONDITIONS:  
 A. Environmental conditions: Do not proceed with glazing when ambient and substrate temperature conditions are outside the limits permitted by glazing materials manufacturer or when glazing channel substrates are wet from rain, frost, condensation, or other cause.

1.06 WARRANTY:  
 A. Coated glass products: Submit written warranty signed by glass manufacturer agreeing to furnish replacements for those coated glass units that deteriorate, i.e., point of manufacture, freight allowed Project site, within specified warranty period indicated below. Warranty covers only deterioration due to normal conditions of use and not to handling, installing, and cleaning practices contrary to glass manufacturer's published instructions.  
 1. Warranty period: Manufacturer's standard, but not less than 5 years after date of Substantial Completion.  
 B. Insulating glass: Submit written warranty signed by glass manufacturer agreeing to furnish replacements for the insulating glass units that deteriorate, i.e., point of manufacture, freight allowed Project site, within specified warranty period indicated below. Warranty covers only deterioration due to normal conditions of use and not to handling, installing, and cleaning practices contrary to glass manufacturer's published instructions.  
 1. Warranty period: Manufacturer's standard, but not less than 10 years after date of Substantial Completion.

**PART 2 - PRODUCTS**

2.01 OPERATING GLASS:  
 A. Glass so indicated and required by federal and local regulations and the authorities having jurisdiction shall be fully tempered conforming to ANSI Standard Z97.1-1972 "Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings" and Fed. Spec. DD-C-451c.  
 B. Application in doors, sidelights and other designated locations.

2.02 FLOAT OR PLATE GLASS - CLEAR:  
 A. 1/4" thick (unless noted otherwise). Shall meet or exceed Fed. Spec. DD-C-451c.

2.03 INSULATING GLASS - CLEAR:  
 A. Hermetically sealed assembly consisting of two (2) glass piles (float or plate) with an entrapped desiccated air space between.  
 1. Provide argon filled, multi-layer low-E coated unit at exterior storefront units.  
 2. Metal spacer lines between piles of glass: Black.  
 B. Total unit thickness: 1".

2.04 SEALANT - GLASS:  
 A. One-part acrylic polyurethane.  
 B. Tape: Resilient polysbutyrene/butyl extruded tape. Physical Characteristics: Self-adhering, remaining permanently elastic, even at low temperatures.  
 C. Adhesion capabilities shall remain constant. Shall be unaffected by ultra-violet through glass. Serviceability range - 40 degrees F. to 200 degrees F. Shall be non-staining with no coil exudation.

2.05 LAMINATED INSULATING COATED GLASS (LARGE-MISSILE IMPACT RESISTANT)  
 A. OVERALL THICKNESS: 1 5/16"  
 B. EXTERIOR GLASS PLY 1: 1/4" CLEAR HEAT STRENGTHENED  
 C. INTERLAYER: 0.090" CLEAR POLYVINYL BUTYRAL (PVB)  
 D. INTERIOR GLASS PLY 2: 1/4" CLEAR HEAT STRENGTHENED  
 E. COATING: LOW-E ON #4 SURFACE  
 F. SPACE: 1/2" ALUMINUM BLACK PAINTED ARGON FILLED  
 G. SILICONE: BLACK  
 H. INTERIOR GLASS PLY: 1/4" CLEAR FULLY TEMPERED

**PART 3 - EXECUTION**

3.01 LABELING:  
 A. Each item shall be graded and arrive at the site bearing a label setting forth the quality and type of glass and the manufacturer's name and brand designation. Labels shall remain intact until their removal is authorized by the Architect.

3.02 ENVIRONMENTAL CONDITIONS:  
 A. Glazing shall not be done when the temperature is 40 degrees F or below.

3.03 PREPARATION FOR GLAZING:  
 A. Check the openings to determine if they conform to the sizes shown on the Drawings and shop drawings.  
 B. Make certain that the glazing rabbets are clean and in proper condition to receive the sealant.  
 C. The glazing channel and all sealing surfaces of wood or carbon steel shall have a coat of prime paint. The sealing rabbets of all metal holding members shall have all grease, foreign matter, lacquers or other organic protective coatings removed.  
 D. Make certain that the corners and intersections of the framing members are properly joined or sealed so as to prevent water leakage. If they are not, advise the Architect in writing. This condition shall be rectified before commencing the glazing operation.  
 E. Tempered glass must be ordered from the factory by size and not altered after fabrication.

3.04 SEALANT:  
 A. Sealing of glass shall be as recommended in the Glazing Sealing Systems Manual as published by the Flat Glass Marketing Association, latest edition.

3.05 BREAKAGE OR SURFACE DAMAGE:  
 A. Solutions used on the surface of the building to clean and/or seal shall be applied in a manner to avoid contact with the glass. Solutions to clean the glass shall be a selected product that will not cause damage to the glass surface, exterior building surface or the sealant.  
 B. Remove promptly any "wash off" from pre-oxidized metal.  
 C. Apply tapes or banners to the framing and suspend over the glass to alert workmen that the opening has been glazed. Directly marking on glass surfaces shall not be permitted.

3.06 CLEANING:  
 A. Remove all excess putty or compound smears.  
 B. Remove any excess sealant materials left on the surfaces of the glass or the surrounding members immediately during the work life of the sealant.  
 C. All glass at the completion of the Work shall be clean and polished to the approval of the Architect.  
 D. Wash, rinse and dry glass at frequent intervals during the Work. Use soft, clean, grime-free cloths, mild soap, detergent or a slightly acidic cleaning solution; follow immediately with clean rinse water, and prompt removal of excess rinse water with clean squeegee. Remove grease and glazing materials with commercial solvents such as xylene, toluene, mineral spirits, naphtha, and follow with normal wash and rinse. Be careful not to damage glazing materials or insulating unit seals by over generous application of strong solvents.  
 E. Remove immediately any staining or leaching resulting from surrounding materials. The Contractor shall be responsible for protecting the glass against any such damage.

**09250 - GYPSUM WALL BOARD**

**PART 1 - GENERAL**

1.01 SCOPE:  
 A. Provide all of the labor, materials, equipment and services to furnish and install the gypsum wallboard and the associated accessories.

1.02 QUALITY ASSURANCE:  
 A. References:  
 1. United States Gypsum Company, "Construction Handbook."  
 2. Gypsum Association, "Specifications."  
 B. Fire-rated assemblies: Where fire-rated assemblies are indicated, provide materials and construction identical to those of assemblies tested for fire resistance per ASTM E-119, or an independent testing and inspecting agency acceptable to authorities having jurisdiction.  
 C. Single-source responsibility:  
 1. Obtain all gypsum board and other panel products from a single manufacturer. Obtain all other materials from either the same manufacturer that supplies gypsum board or from other panel products or from a manufacturer acceptable to gypsum board manufacturer.

1.03 SUBMITTALS:  
 A. Prior to installation, submit to the Architect for review the following:  
 1. Manufacturer's literature fully describing each product named which shall include, but not be limited to, the manufacturer's name and catalog number for each item.  
 2. Accompanying the materials list, submit two (2) copies of the manufacturer's current recommended method of installation for each item.

1.04 DELIVERY, STORAGE AND HANDLING:  
 A. Deliver materials in original packages, containers, or bundles bearing brand name and identification of manufacturer or supplier.  
 B. Store materials inside under cover and keep them dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes. Neatly stack gypsum panels flat to prevent sagging.  
 C. Handle gypsum board to prevent damage to edges, ends, and surfaces. Do not bend or otherwise damage metal corner beads and trim.

1.05 PROJECT CONDITIONS:  
 A. Environmental conditions: Establish and maintain environmental conditions for applying and finishing gypsum board to comply with ASTM C840 and with gypsum board manufacturer's recommendations.  
 B. Room temperatures:  
 1. Non-adhesive attachment of gypsum board to framing: Maintain not less than 40 deg. F.  
 2. For adhesive attachment and finish of gypsum board: Maintain not less than 50 deg. F. for 48 hours prior to application and continuously after until dry.  
 3. Do not exceed 95 deg. F. when using temporary heat sources.  
 C. Ventilation: Ventilate drying joints, for drying joint treatment materials. Avoid drafts during hot dry weather to prevent finishing materials from drying too rapidly.

**PART 2 - PRODUCTS**

2.01 MANUFACTURERS:  
 A. The products of the following manufacturers are suitable for use:  
 1. USG.  
 2. National Gypsum/Gold Bond.  
 3. G-P Gypsum Corp.  
 4. Or an approved equal.  
 B. The sake of convenience, the product numbers or descriptions given herein are those of USG. Products as manufactured by any one of the manufacturer's named above will be acceptable.

2.02 GYPSUM WALLBOARD:  
 A. 5/8" Fire rated: USG "X" board. Conform to Specification for Gypsum Drywall, ASTM C36 for type "X" gypsum board.  
 B. 5/8" Moisture Resistant: 5/8" coated fiberglass mat on face, back, and long edges. Tapered edges. Conform to Specification for Gypsum Drywall, ASTM C1396 for type "X" gypsum board; Fed. Spec. SS-L-306, Type III, Grade "X" plus the following:  
 a. Flexural strength, Parallel: ASTM C473, ASTM C1658.  
 b. Flexural strength, Perpendicular: ASTM C473, ASTM C1658.  
 c. Nail pull resistance: ASTM C473, ASTM C 1658.  
 d. Humidified deflection: ASTM C473, ASTM C 1658.  
 e. Hardness, core, edges and ends: ASTM C473, ASTM C1396.  
 f. Water absorption: ASTM C630, ASTM C1396, ASTM C1658.  
 g. Mold resistance: ASTM D3273.

2.03 SOUND BLANKETS:  
 A. USG Sound Attenuation Blankets.  
 B. Non-combustible:  
 1. Flame spread: 15.  
 2. Smoke developed: 0.  
 C. Perimeter caulking: USG Acoustical Sealant.

2.04 METAL STUDS:  
 A. Standard:  
 1. Non-load bearing, screw-type, channel studs, roll-formed with 25 gauge electro-galvanized steel in sizes as indicated on the Drawings.  
 2. Flanges shall be at least 1-1/4" wide.  
 3. Webs shall be punched to receive bridging, conduit, piping, etc.  
 4. Meet or exceed ASTM C645, Light-Gauge Studs, Runners, and Rigid Furring Channels.

5. Unless otherwise directed, install on 16" centers.  
 6. Size as indicated on Drawings.

2.05 METAL FURRING CHANNELS:  
 A. Furring channels:  
 1. Galvanized steel designed similar to USG Metal Furring Channels.  
 2. Face width 1-3/8", depth 7/8", length 12'-0".  
 B. Furring channel clips:  
 1. Galvanized wire for use in attaching furring channels.  
 2. Install on alternate sides of the carrying channels. Where clips cannot be alternated, wire tying must be employed.

2.06 COLD-ROLLED CHANNELS:  
 A. Description:  
 1. 16 gauge galvanized steel for use in furring, suspended ceilings, and partition construction.  
 2. Sizes: 3/4", 1-1/2", and 2" as required by the Drawings.

2.07 METAL TRIM:  
 A. Trim:  
 1. USG #200 series.  
 2. All metal that shall be concealed when wall is finished out.  
 3. Sizes to accommodate drywall thickness.  
 B. Corner bead:  
 1. USG "Dura-A-Bead" all metal heavy gauge hot-dipped galvanized steel reinforcement for protecting external corners.  
 2. Shall be concealed when wall is finished out.

2.08 HANGER AND TIE WIRE:  
 A. Soft annealed, low carbon steel wire.  
 1. No. 9 gauge for hanger wire.  
 2. No. 18 gauge for tie wire.

2.09 FASTENERS:  
 A. Metal studs:  
 1. Self-drilling, self-tapping screw to comply with ASTM C646.  
 2. Type S and S12, Type S and B, and B, all 1/4" thread.  
 3. Length of screw to equal panel(s) thickness plus 3/8".

2.10 JOINT TREATMENT:  
 A. All joints to comply with ASTM C-475, Joint Treatment Materials for Gypsum Wallboard Construction.  
 1. Joint reinforcing tape: USG Perfi-A-Tape Reinforcing Tape.  
 2. Joint compounds: USG All-purpose Joint Compound.

2.11 OTHER MATERIALS:  
 A. Other materials, not specifically described but required for a complete and proper installation of gypsum drywall, shall be as selected by the Contractor subject to the approval of the Architect.

**PART 3 - EXECUTION**

3.01 GENERAL:  
 A. All materials shall be installed in accordance with the manufacturer's current printed directions, approved submittals and the Contract Documents. In the case of a conflict between these instructions, the most stringent condition shall prevail.

3.02 METAL STUD ERECTION:  
 A. Install all metal studs and accessory items in strict accordance with the approved submittal of manufacturer's recommendations, anchoring all members in position for long life under hard use.  
 B. Align all partition and wall assemblies to a tolerance of one in 200 horizontally and one in 500 vertically.  
 C. Attach steel runners at floor and ceiling to structural elements with suitable fasteners located 2" from each end and spaced 24" o.c. To suspended ceilings, use toggle bolts or hollow wall anchors spaced 16" o.c.  
 D. Position studs vertically, with open side facing in same direction, engaging floor and ceiling runners. When necessary, splice studs with "B" nested lap and two positive attachments per stud flange. Place studs in direct contact with all door frame jambs, abutting partitions, partition corners and existing construction elements. Where studs are installed directly against exterior walls and a possibility of water penetration through walls exists, install asphalt felt strips between studs and wall surfaces.  
 E. Anchor all studs for shelf-walls and those adjacent to door and window frames, partition intersections, corners and free-standing furring to ceiling and floor runner flanges with metal lock fastener tool or screws. Securely anchor studs to jamb and head anchors of door or borrow-light frames by bolt or screw attachment. Over metal door and borrowed-light frames, place horizontally a cut-to-length section of runner, with a web-flange bend at each end, and secure to stud-studs with two screws in each bent web. Position a cut-to-length stud (extending to ceiling runner) at vertical panel joints over door frame header. When attaching studs to steel grid system, structural adequacy of grid to support end reaction of wall must be determined.

3.03 GYPSUM PANEL INSTALLATION - GENERAL:  
 A. Install and finish in accordance with ASTM C840 and gypsum wallboard manufacturer's recommendations.  
 B. Install sound attenuation blankets where indicated prior to installing gypsum panels unless blankets are readily installed after the panels have been installed on one side.  
 C. Install ceiling board panels across framing to minimize the number of abutting end joints and avoid abutting end joints in the central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.  
 D. Install wall/partition board panels to minimize the number of abutting end joints or avoid them entirely. Stagger abutting end joints not less than one framing member in alternate courses of board. At stairwells and other high walls, install panels horizontally with end abutting joints over studs or staggered.  
 E. Install gypsum panels with face side out. Do not install imperfect, damaged, or damp panels. Butt panels together for a light contact at edges and ends with not more than 1/16" of open space between panels. Do not force into place. Do not allow gypsum panels to directly contact concrete or masonry surface. Hold the panels away from these surfaces approximately 1/8".  
 F. Locate both edge end and joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Position adjoining panels so that tapered edges abut tapered edges, and field-cut edges abut field-cut edges and ends. Do not place tapered edges against cut edges or ends. Stagger vertical joints over different studs on opposite sides of partitions. Avoid joints at corners of framed openings where possible.  
 G. Attach gypsum panels to steel studs so that the leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.  
 H. Attach gypsum panels to framing provided at openings and cutouts.  
 I. Spot grout hollow metal core frames for solid core wood doors, hollow metal doors, and doors over 32" wide. Apply spot grout at each jamb anchor clip and immediately insert gypsum panels into frames.  
 J. Form control joints and expansion joints at locations indicated and as detailed, with space between edges of adjoining gypsum panels, as well as supporting framing behind gypsum panels.  
 K. Cover both faces of stud partition framing with gypsum panels in concealed spaces (above ceilings, etc.) except in chase walls that are braced internally.  
 1. nch Except where concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.  
 2. Fit gypsum panels around ducts, pipes, and conduits.  
 3. Where partitions intersect open concrete coffer, concrete joists, and other structural members project below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by coffer, joists, and other structural members; allow 1/4" to 2" wide joints to install sealant.  
 L. Isolate perimeter of non-load-bearing gypsum board partitions at structural abutments, except floors. Provide 1/4" to 2" wide spaces at these locations and trim edges with edge trim where edges of gypsum panels are exposed. Seal joints between edge and abutting structural surfaces with acoustical sealant.  
 M. Space fasteners in gypsum panels according to referenced gypsum board application and finishing standard and manufacturer's recommendations.  
 N. Coordinate work with that of other Trades. Neatly cut face boards to fit around penetrations through wall. Provide suitable back-up anchorage as required for the attachment of shelves and cabinets.  
 O. Screw heads shall provide a slight depression below the surface of the board. Do not install screw closer than 3/8" from edges and ends of the board.  
 P. Treat joints, screw head depressions, or defects incurred during the installation of the gypsum board in prescribed manner with joint treatment.  
 Q. Properly space all fasteners in careful accordance with the manufacturer's recommendations and code requirements with heads driven slightly below the surface for proper cementing but without breaking the paper cover.  
 R. Loosely butt all joints to be taped; firmly butt all joints to be left untreated.  
 S. Stagger all end joints and the joints between panels to achieve a maximum of bridging and a minimum of continued joints.

CONSULTANT:  
  
 2265 ROSWELL ROAD  
 SUITE 100  
 MARIETTA, GEORGIA 30062  
 770-509-4894 TELEPHONE  
 770-509-2207 FACSIMILE

CLIENT:  
  
 430 TBC WAY  
 PALM BEACH GARDENS  
 FLORIDA 33410

PROJECT INFORMATION:  
  
 GREEN, SOUTH CAROLINA

SEAL:  


PROJECT NO. 2018001  
 DRAWN BY:  
 CHECKED BY:  
 ISSUE: DATE  
 FOR PERMIT: 10/10/2018  
 REVISION: DATE  
 SHEET TITLE:  
**SPECIFICATIONS**  
 SHEET NUMBER:  
**A10.8**