081400 - WOOD DOORS

1. GENERAL
   A. SECTION INCLUDES:
      1) FLUSH WOOD DOORS.
      2) INSTALLATION OF WOOD DOORS.
   B. SUBMITTALS: SUBMIT PRODUCT DATA.

2. PRODUCTS
   A. SOLID CORE FLUSH DOORS:
      1) AWS SECTION 9, PC-5 OR PC-7 (5 OR 7 PLY CONSTRUCTION; BONDED CORE); PREMIUM GRADE.
      2) CORE: SOLID PARTICLEBOARD; FREE FROM ADDED UREA-FORMALDEHYDE FREE.
      3) FACE VENEER: MEDIUM DENSITY OVERLAY OR PAINT GRADE BIRCH.
      4) 1-3/4 INCH THICK, UNLESS SCHEDULED OTHERWISE.
   B. FABRICATION:
      1) FABRICATE DOORS TO THE CONFIGURATIONS INDICATED, IN ACCORDANCE WITH THE AWI STANDARDS SPECIFIED.
      2) BEVEL LOCK AND HINGE EDGES 1/8 INCH IN 2 INCHES ON ALL SINGLE ACTING DOORS.
      3) BOND EDGE BANDING TO SOLID CORE WITH HOT MELT OR RF CURED ADHESIVE.
      4) PREFIT AND PREMACHINE DOORS IN ACCORDANCE WITH AWI 1300-S-6. PREMACHINE FOR HARDWARE SPECIFIED IN SECTION 087100.
      5) DOORS MAY BE FIELD FINISHED OR SHOP FINISHED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 09900, AT THE CONTRACTOR'S OPTION.
      6) FLUSH DOOR BLOCKING: FOR FLUSH DOORS, PROVIDE SOLID LOCK BLOCKS AND SPECIAL BLOCKING AS REQUIRED FOR THE HARDWARE COMPONENTS SPECIFIED ELSEWHERE.

3. EXECUTION
   A. DOOR AND HARDWARE INSTALLATION IS SPECIFIED IN SECTION 087100.

083100 - ACCESS DOORS

1. GENERAL:
   A. SECTION INCLUDES:
      1) FIRE RATED AND NON-RATED ACCESS DOORS AND FRAMES.
      2) DROP-IN GFRG ACCESS PANELS FOR SALES FLOOR CEILINGS.
   B. SUMMARY: PROVIDE ACCESS DOORS AND PANELS AS NECESSARY FOR ACCESS TO OVERHEAD DOOR OPERATORS, PLUMBING VALVES AND CLEANOUTS, AND MECHANICAL VALVES AND DAMPERS.
   C. QUALITY ASSURANCE:
      1) WHERE ACCESS DOORS ARE INSTALLED IN CONSTRUCTION WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, WARNOCK HERSEY, OR ANY OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES TO MEET THE REQUIREMENTS OF THE FIRE RATED ASSEMBLY.

2. PRODUCTS
   A. ACCEPTABLE MANUFACTURERS:
      1) MILCOR, INC., LIMA, OH
      2) J.L. INDUSTRIES, BLOOMINGTON, MN.
      3) KARP ASSOCIATES, INC., MASPETH, NY.
      4) MM SYSTEMS CORPORATION, TUCKER, GA.
      5) NYSTROM, MINNEAPOLIS, MN
   B. DOOR TYPES:
      1) FIRE RATED METAL ACCESS DOOR:
         A) FLUSH TYPE DESIGN WITH RECESSED FLANGE OR DRYWALL BEAD AT CONTRACTOR'S OPTION.
         B) 16 GAGE FRAME; MINIMUM 20 GAGE STEEL WELDED PAN DOOR PANEL INSULATED WITH NON-COMBUSTIBLE FILLER
         C) SELF CLOSING AND SELF LATCHING, WITH INTERIOR LATCH RELEASE
         D) FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.
         E) RING TURN LATCH; FURNISH 2 AT LATCH EDGES GREATER THAN 30 INCHES IN LENGTH.
         F) HOT SMOKE SEAL GASKETING WHERE INDICATED FOR INSTALLATION IN SMOKE PARTITIONS.
      2) NON RATED METAL WALL AND CEILING ACCESS DOOR:
         A) FLUSH TYPE DESIGN
         B) 16 GAGE STEEL FRAME; 14 GAGE STEEL DOOR PANEL.
         C) FOR INSTALLATION IN DRYWALL: INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.
         D) FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.
         E) HARDWARE: SCREW DRIVER SLOT, QUARTER TURN CAM LOCK FOR INTERIOR LOCATIONS; 2'-0" O.C., MAXIMUM.
      3) NON RATED CONCEALED DRYWALL ACCESS DOOR:
         A) RECESSED TYPE DESIGN.
         B) MINIMUM 13 GAGE STEEL FRAME; MINIMUM 16 GAGE STEEL DOOR PANEL RECESSED TO RECEIVE DRYWALL.
         C) INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.
         D) FULLY CONCEALED PIVOT ROD HINGE.
         E) LATCHES: SCREW DRIVER OPERATED CAM LATCH.
      4) TOILET ROOM FAUCET POWER SUPPLY ACCESS DOORS: NON-RATED WALL TYPE; 12"W X 12" H; STAINLESS STEEL, #4 FINISH; ONE PIECE FRAME; CONCEALED HINGE.
   C. MINIMUM SIZES: PROVIDE ACCESS DOORS IN SIZES INDICATED. WHEN NOT INDICATED PROVIDE 12" X 12" SIZE FOR HAND ACCESS, AND 24" X 24" SIZE FOR MAN ENTRY.
   D. GLASS FIBER REINFORCED GYPSUM (GFRG) ACCESS PANELS:
      1) APPROVED PRODUCTS:
         A) WIND-LOCK (LEESPORT, PA; 800-872-5625) "STEALTH."
         B) CASTLE ACCESS PANELS & FORMS, INC. (CONCORD, ON; 905-738-8089) "GFRG POP-OUT ACCESS PANEL" WITH RADIUS CORNERS.
      2) PROVIDE 24-INCH (610 MM) OPENINGS UNLESS NOTED OTHERWISE.

3. EXECUTION
   A. INSTALLATION:
      1) PROVIDE ACCESS DOORS IN THE LOCATIONS INDICATED.
      2) ACCESS DOORS REQUIRED FOR ACCESS TO BALANCING AND FIRE DAMPERS, TRAP PRIMERS, VALVES, FANS, TERMINAL UNITS, AND OTHER EQUIPMENT REQUIRING PERIODIC INSPECTION THROUGH FINISHED WALLS OR CEILING, WHETHER INDICATED OR NOT, ARE SUBJECT TO ARCHITECTS PRIOR APPROVAL OF LOCATIONS.
      3) COORDINATE ACCESS REQUIREMENTS WITH OTHER TRADES.
      4) PROVIDE CONCEALED GFRG ACCESS DOORS AT PUBLIC LOCATIONS SUCH AS AT SALES FLOOR AREAS, EXCEPT WHERE FIRE RATED DOORS ARE REQUIRED.
      5) PROVIDE CONCEALED DRYWALL ACCESS DOORS IN OTHER LOCATIONS UNLESS FIRE RATED ACCESS DOORS ARE REQUIRED BECAUSE OF FIRE RATED CONSTRUCTION.

087100 - DOOR HARDWARE AND INSTALLATION

1. GENERAL
   A. SECTION INCLUDES:
      1) HARDWARE FOR SWINGING DOORS.
      2) DOOR AND HARDWARE INSTALLATION.
   B. SUBMITTALS:
      1) HARDWARE SCHEDULE:
         A) SUBMIT TO THE ARCHITECT, IN TRIPLICATE, A COMPLETE SCHEDULE OF PROPOSED FINISH HARDWARE. SCHEDULE SHALL BE COMPLETELY DETAILED, SHOWING ALL ITEMS, NUMBERS AND FINISHES FOR ALL HARDWARE FOR EACH SEPARATE OPENING.
         B) GENERAL CONTRACTOR TO ORDER ALL HARDWARE IMMEDIATELY UPON APPROVAL OF HARDWARE LIST.
      2) PRODUCT DATA. SUBMIT, IN TRIPLICATE, PRODUCT CUT SHEETS CLEARLY INDICATING HARDWARE TO BE USED.
      3) SUPPLIER QUALIFICATIONS: FINISH HARDWARE SHALL BE SUPPLIED BY RECOGNIZED BUILDERS' HARDWARE SUPPLIER WHO HAS BEEN FURNISHING HARDWARE IN THE SAME AREA AS THE PROJECT FOR A PERIOD OF NOT LESS THAN FIVE YEARS. THE SUPPLIER'S ORGANIZATION SHALL INCLUDE CONSULTANTS WHO ARE AVAILABLE AT ALL REASONABLE TIMES DURING THE COURSE OF THE WORK TO MEET PERSONALLY WITH THE OWNER, ARCHITECT, OR CONTRACTOR FOR HARDWARE CONSULTATION. THE SUPPLIER SHALL MAINTAIN A PARTS INVENTORY OF ITEMS SUPPLIED FOR FUTURE SERVICE TO THE OWNER.
   C. QUALITY ASSURANCE:
      1) GENERAL CONTRACTOR TO BID HARDWARE THAT CONFORMS TO REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
      2) WHERE OPENINGS ARE NOTED WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE HARDWARE COMPONENTS LABELED BY UNDERWRITER'S LABORATORY, OR OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES, TO MEET THE HOURLY FIRE RATING NOTED.
      3) HARDWARE SHALL CONFORM TO NFPA 80 FOR FIRE RATED CLASS INDICATED.
   D. SUBSTITUTIONS: SUBMIT SUBSTITUTIONS WITH CATALOG FOR ARCHITECTS APPROVAL IN ACCORDANCE WITH SECTION 016000.
   E. WARRANTY: SUBMIT MANUFACTURER'S WARRANTIES STATING HARDWARE ITEMS WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP AS FOLLOWS, FOR A PERIOD COMMENCING ON THE DATE OF SUBSTANTIAL COMPLETION.
      1) BUTT HINGES: LIFE OF BUILDING
      2) LOCKS AND LATCHES: 2 YEARS.
      3) DOOR CLOSERS: 10 YEARS, MECHANICAL; 2 YEARS, ELECTRICAL
      4) EXIT DEVICES: 5 YEARS, MECHANICAL; 2 YEARS, ELECTRICAL

2. PRODUCTS
   A. MANUAL SWINGING DOOR HARDWARE:
      1) TYPE: AS SCHEDULED ON THE DRAWINGS
      2) KEYS & KEYING:
         A) ALL CYLINDER ITEMS SHALL BE KEYED AS DIRECTED BY THE OWNER.
         B) KEYS: FURNISH 3 FOR EACH CYLINDER UNIT.
         C) CONSTRUCTION CORES:
            (1) CONTRACTOR TO INSTALL LOCKSET WITH CONSTRUCTION CORES.
            (2) PROVIDE INTERCHANGEABLE OR REMOVABLE CORES FOR USE DURING THE CONSTRUCTION.
         D) PERMANENT CORES: INSTALL OWNER FURNISHED PERMANENT CORES.

3. EXECUTION
   A. HARDWARE INSTALLATION:
      1) MARK EACH ITEM OF HARDWARE AS TO DESCRIPTION AND LOCATION OF INSTALLATION IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE.
      2) EXPOSED SURFACES OF HARDWARE SHALL BE COVERED AND WELL PROTECTED DURING INSTALLATION, SO AS TO AVOID DAMAGE TO FINISHES.
      3) INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS. WHEREVER CUTTING AND FITTING ARE REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHES IN ANOTHER WAY, INSTALL EACH ITEM COMPLETELY AND THEN REMOVE AND STORE IN A SECURE PLACE DURING THE FINISH OPERATION. AFTER COMPLETION OF THE FINISHES, REINSTALL EACH ITEM. DO NOT INSTALL SURFACE MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.
      4) HARDWARE MOUNTING HEIGHTS: MOUNTING HEIGHTS ARE BASED ON RECOMMENDATIONS OF THE NATIONAL BUILDERS HARDWARE ASSOCIATION (NBHA). GENERALLY, MOUNT HARDWARE UNITS AT THE FOLLOWING LOCATIONS ON EACH DOOR OR DOOR OPENING, EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS OR REQUIRED TO MEET CODE AND HANDICAPPED REQUIREMENTS. VERIFY ANY CONFLICTS WITH LOCATION OF OTHER HARDWARE FOR PROPER CLEARANCES FOR INSTALLATION PRIOR TO CUTTING OR MILLING FOR SPECIFIED HARDWARE. NOTIFY ARCHITECT IMMEDIATELY IF SUCH CONFLICTS ARE DETERMINED.
         A) LATCH AND LOCKSETS: 38 INCHES FINISH FLOOR TO CENTER OF KNOB.
         B) DEAD LOCKS: 52 INCHES FINISH FLOOR TO CENTER OF CYLINDER.
         C) EMERGENCY EXIT CROSS BAR: 36 INCHES FROM FINISH FLOOR.
         D) PUSH/PULL: 42 INCHES FINISH FLOOR TO CENTERLINE OF PUSH/PULL.
         E) PUSH PLATE: 1/2 INCH FROM EDGE OF DOOR; 42 INCHES TO CENTER LINE OF PLATE, EXCEPT 45 INCHES WHERE INDEPENDENT OF THE PUSH/PULL.
         F) TOP HINGE: 5 INCHES FROM TOP OF DOOR TO TOP OF HINGE.
         G) BOTTOM HINGE: 10 INCHES FROM FINISH FLOOR TO BOTTOM OF HINGE.
         H) CENTER HINGE: EQUAL DISTANCE BETWEEN TOP AND BOTTOM HINGES.
         I) MULTIPLE HINGE LOCATIONS SHALL BE EQUALLY SPACED BETWEEN TOP AND BOTTOM HINGE.
         J) WALL STOPS: CENTERLINE OF KNOB OR POINT OF FIRST CONTACT.
         K) THRESHOLDS: MOUNT AT EXTERIOR DOORS SUCH THAT SLOPE BREAKPOINT ON THRESHOLD IS AT LEAD EDGE OF DOOR. SET IN FULL BED OF CAULKING MATERIAL.
         L) CLOSING: MOUNT FOR MAXIMUM DEGREE OF OPENING OBTAINABLE CONSIDERING OTHER HARDWARE PROVIDED AND OPENING CONDITIONS. SIZE CLOSERS FOR CONDITIONS AND CODE REQUIREMENTS.
         M) TRIM/PROTECTION: KICKPLATE SHALL BE 2" LDW X HEIGHT INDICATED.
         N) OTHER HARDWARE ITEMS SHALL BE LOCATED AS RECOMMENDED BY NBHA, OR AS MAY BE SHOWN OR REQUIRED OTHERWISE.
      5) ADJUSTING AND CLEANING: ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION. CLEAN DOOR AND HARDWARE.
      6) HARDWARE GROUPS: AS INDICATED ON THE DRAWINGS.
   B. DOOR INSTALLATION:
      1) FIT AND PREPARE DOORS FOR INSTALLATION IN ACCORDANCE WITH THE DOOR MANUFACTURER'S PRINTED INSTRUCTIONS.
      2) INSTALL DOORS PLUMB AND SQUARE IN ASSOCIATED FRAMES MAINTAINING SPECIFIED CLEARANCES.
      3) PROVIDE CLEARANCES OF 1/8 INCH AT JAMBS AND HEADS AND 3/8 INCH FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING, EXCEPT WHERE THRESHOLD IS SHOWN OR SCHEDULED PROVIDE 1/4 INCH CLEARANCE FROM BOTTOM OF DOOR TO TOP OF THRESHOLD.
      4) INSTALL HOLLOW METAL DOORS IN ACCORDANCE WITH ANSI A250.8 AND HMMA 840.
      5) INSTALL FIRE RATED DOORS IN ACCORDANCE WITH NFPA 80.
      6) INSTALL DOORS TO OPERATE FREELY, BUT NOT LOOSELY, FREE FROM HINGE BOUND CONDITIONS, STICKING OR BINDING. DO NOT INSTALL IN FRAMES WHICH WOULD HINDER OPERATION OF DOORS.
      7) ENSURE DOORS ARE FREE FROM RATTLING WHEN IN LATCHED POSITION.

088773 WINDOW FILMS

1. GENERAL
   A. SECTION INCLUDES: FIELD APPLIED WINDOW SCREENING FILM.
   B. SUBMITTALS:
      1) PRODUCT DATA.
      2) SAMPLE: MINIMUM 8 X 10 INCH SAMPLE OF FILM.
   C. QUALITY ASSURANCE: FILM SHALL BE INSTALLED BY PERSONNEL EXPERIENCED IN THE FIELD INSTALLATION OF SHADING FILMS TO WINDOWS.

2. PRODUCTS
   A. WINDOW FILM TYPE AS SCHEDULED "WF-1."

3. EXECUTION
   A. PREPARATION: CLEAN GLASS.
   B. INSTALLATION
      1) FIELD APPLY TO ROOM INTERIOR SIDE SURFACE OF GLAZING AS INDICATED AND AS RECOMMENDED BY THE MANUFACTURER FOR RELEASE ENHANCEMENT PROPERTIES.
      2) INSTALL FILM TO EACH DISTINCT PANE AS A SINGLE SHEET, FREE OF SCRATCHES, DIRT, AND IMPERFECTIONS. WHERE PATTERNS ARE SHOWN, TRIM ACCURATELY TO LINE, USING TEMPLATES AS NECESSARY.
      3) ACCURATELY TRIM FILM EVEN WITH GLAZING STOPS FOR COMPLETE COVERAGE TO GLAZING PERIMETER.

DIVISION 09 - FINISHES

092200 - LIGHTGAGE METAL SUPPORT FRAMING

1. GENERAL
   A. SECTION INCLUDES:
      1) PARTITION FRAMING.
      2) SOFFIT FRAMING.
      3) SUPPORT AND BACKING FOR WALL MOUNTED RUG FLIPPERS.
      4) STEEL BACKING.
   B. SYSTEM DESCRIPTION:
      1) STRUCTURAL DESIGN: AS INDICATED ON THE STRUCTURAL DRAWINGS.
   C. CODE REQUIREMENTS:
      1) PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED AND SPECIFIED. ASSEMBLIES SHALL BEEN TESTED IN ACCORDANCE WITH ASTM E119, AND SHALL BE APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES. COORDINATE INSTALLATION OF OTHER MATERIALS WHICH ARE A PART EACH ASSEMBLY.
      2) FIRE RATING REQUIREMENTS TAKE PRECEDENCE OVER THE CONSTRUCTION REQUIREMENTS INDICATED. IN THE EVENT OF CONFLICT, NOTIFY THE ARCHITECT, AND DO NOT BEGIN CONSTRUCTION IN THE AREA OF CONFLICT UNTIL THE CONFLICT HAS BEEN RESOLVED.
      3) PROVIDE ALL CALCULATIONS, DRAWINGS, PRODUCT DATA, AND OTHER VERIFICATION AS REQUIRED BY THE JURISDICTIONAL CODE AUTHORITY TO OBTAIN APPROVAL OF THE LIGHTGAGE METAL FRAMING INSTALLATION.
   D. QUALITY ASSURANCE:
      1) UNLESS INDICATED OR SPECIFIED OTHERWISE, PERFORM WORK IN ACCORDANCE WITH ASTM C754.

2. PRODUCTS
   A. NON-LOAD BEARING LIGHT GAGE METAL FRAMING: AS INDICATED ON THE STRUCTURAL DRAWINGS.
   B. CHANNELS: HOT OR COLD ROLLED CHANNELS; RUST INHIBITIVE PAINT COATING; SIZES IN ACCORDANCE WITH ASTM C754.
   C. ACCESSORIES:
      1) SCREWS: SELF TAPPING; LOW PROFILE HEAD; GALVANIZED.
      2) HANGER WIRE: ASTM A641; CLASS 1 ZINC COATING; SOFT TEMPER; PRESTRETCHED; 12 GAGE.
   D. FIRE RATED TRACK: AS SPECIFIED IN SECTION 078500.
   E. PARTITION HEAD COMPENSATING CHANNEL: AS INDICATED ON THE STRUCTURAL DRAWINGS.
   F. OTHER FRAMING MATERIALS:
      1) PROVIDE OTHER FRAMING MATERIALS IN ACCORDANCE WITH ASTM C754.
      2) BACKING: WHERE BACKING FOR WALL-SUPPORTED ITEMS IS INDICATED OR REQUIRED, FURNISH EITHER OF THE FOLLOWING AT CONTRACTOR'S OPTION.
         A) SOLID LUMBER OR PLYWOOD IN ACCORDANCE WITH SECTION 061000.
         B) 16 GA X 4 INCH WIDE STEEL PLATE OR 20 GA X 6 INCH STEEL STUD. PROVIDE 12 GAGE BACKING PLATES AT HANDRAILS.

3. EXECUTION
   A. COORDINATE WITH SECTION 081400 AND 087103 FOR INSTALLATION OF DOOR FRAMES AND HARDWARE.
   B. RUNNERS:
      1) SECURE RUNNERS WITH FASTENERS AT MAXIMUM SPACING INDICATED ON THE STRUCTURAL DRAWINGS.
      2) AT CONCRETE FLOORS, USE POWDER DRIVEN FASTENERS OR DRILLED IN CONCRETE ANCHORS.
      3) AT POST TENSIONED CONCRETE ELEVATED SLABS, USE FASTENERS OR ANCHORS APPROVED BY THE LANDLORD. INSTALL IN ACCORDANCE WITH LANDLORDS REQUIREMENTS TO PROTECT INTEGRITY OF POST TENSION TENDONS.
      4) TOP TRACK: ATTACH TRACK TO OVERHEAD STRUCTURE WITH ALLOWANCE FOR DEFLECTION AS INDICATED. USE PROPRIETARY COMPENSATING CHANNEL OR DEEP LEG TRACK AT CONTRACTOR'S OPTION, AS NECESSARY TO ACCOMMODATE BUILDING DEFLECTION.
      5) UNLESS APPROVED OTHERWISE, AT FIRE RATED PARTITION ASSEMBLIES, USE FIRE RATED TRACKS, FURNISHED FROM SECTION 078500. INSTALL FIRE RATED TRACKS IN ACCORDANCE WITH THE FIRE RATED ASSEMBLY REQUIREMENTS.
      6) ALIGN TO TOLERANCES SPECIFIED.
   C. UNLESS INDICATED OTHERWISE, INSTALL STUDS VERTICALLY AT 16 INCHES OC, AND NOT MORE THAN 2 INCHES FROM ABUTTING CONSTRUCTION, AT EACH SIDE OF OPENINGS, AND AT CORNERS.
   D. FIT RUNNERS UNDER AND ABOVE OPENINGS; SECURE INTERMEDIATE STUDS AT SPACING OF WALL STUDS.
   E. BRACE PARTITION FRAMING SYSTEM AND MAKE RIGID. PROVIDE DIAGONAL STUD BRACING AT MAXIMUM 8 FT ON CENTER AT ALL FRAMING WHICH DOES NOT EXTEND TO STRUCTURE.
   F. INSTALL DOUBLE STUDS CONTINUOUS FROM FLOOR TO CEILING TRACK AT THE JAMB OF EACH DOOR FRAME AND CASED OPENING. STUDS AT FRAMES SHALL BE NO LESS THAN 20 GAGE. PROVIDE DIAGONAL STEEL STUD BRACING TO STRUCTURE AT EACH JAMB AT PARTITIONS WHICH DO NOT EXTEND TO STRUCTURE.
   G. PROVIDE DEFLECTION HEAD CHANNEL DETAIL TO ACCOMMODATE MINIMUM +/1/2 INCH DEFLECTION OF DECK ABOVE. AT NON-LOAD BEARING FULL HEIGHT PARTITIONS SUBJECT TO COMPRESSION CAUSED BY OVERHEAD STRUCTURAL DEFLECTION, CUT STUDS 1/2 INCH SHORT FROM FULL HEIGHT. DO NOT RIGIDLY CONNECT STUD TO TOP RUNNER.
   H. COORDINATE ERECTION OF STUDS WITH INSTALLATION OF SERVICE UTILITIES. ALIGN STUD WEB OPENINGS.
   I. COORDINATE ERECTION OF STUD SYSTEM WITH REQUIREMENTS OF DOOR AND WINDOW FRAMES, FIRE EXTINGUISHER CABINETS, RECESSED TOILET ACCESSORIES, ACCESS DOORS, ACOUSTICAL INSULATION, AND OTHER CONSTRUCTION WITHIN PARTITION.
   J. COORDINATE THE INSTALLATION OF FRAMING WITH THE GYPSUM BOARD INSTALLER TO ENSURE SUPPORT AT ALL BOARD EDGES. PROVIDE FRAMING IMMEDIATELY EITHER SIDE OF EXPANSION JOINTS.
   K. STUD SPLICING NOT PERMISSIBLE.
   L. BACKING: PROVIDE FOR SUPPORT OF WALL MOUNTED ITEMS, INCLUDING OWNER-FURNISHED CASEWORK AND ACCESSORIES.
   M. STUD BRIDGING:
      1) AT INTERIOR PARTITIONS GREATER THAN 4 FEET IN LENGTH, AND WITH RIGID FACING MATERIAL ON ONE STUD FLANGE ONLY, PROVIDE 3/4" BRIDGING CHANNELS IN HORIZONTAL ROWS AT A MAXIMUM OF 5'-0" ON CENTER FOR THE FULL HEIGHT OF THE PARTITION.
      2) INTERIOR FULL HEIGHT PARTITIONS (STUDS EXTENDING FROM THE FLOOR TO THE STRUCTURE ABOVE) WITH RIGID FACING MATERIAL STOPPING 3'-0" OR MORE BELOW TOP OF STUDS - PROVIDE ONE ROW 3/4" BRIDGING CHANNEL HORIZONTALLY AT TERMINATION OF GYPSUM BOARD MATERIAL, AND ONE ADDITIONAL ROW FOR EACH 5'-0" OF EXPOSED STUDS.
      3) INSTALL STUD BRIDGING CHANNELS IN LONG LENGTHS, WIRE TYING AND LAPPING THE JOINTS A MINIMUM OF 12." ATTACH BRIDGING CHANNEL TO EACH STUD AS SHOWN IN MANUFACTURER'S PRINTED INSTRUCTIONS.
   N. CEILING AND SOFFIT FRAMING:
      1) COORDINATE LOCATIONS OF HANGERS AND SUPPORTS WITH THE WORK OF OTHER SECTIONS.
      2) PROVIDE CEILING AND SOFFIT FRAMING AS INDICATED.
      3) STUD AND RUNNER FRAMING:
         A) SECURE RUNNERS TO STRUCTURE ABOVE WITH FASTENERS AT A MAXIMUM OF 24 INCHES ON CENTER. SIZE FASTENERS AND USE REINFORCEMENTS AS NECESSARY TO SUPPORT THE DEAD LOADS APPLIED.
         B) SCREW FASTEN FRAMING AT EACH FLANGE JOINT.
         C) SPACE STUDS AS INDICATED AT HORIZONTAL LOCATIONS.
      4) FORM OPENINGS IN CEILINGS AND FRAME OPENINGS FOR RECESSED LIGHT FIXTURES, AIR DIFFUSERS, ACCESS DOORS, HATCHES, ETC.
      5) INSTALL SUPPLEMENTARY HANGER WIRES FOR SUPPORT OF CEILING MOUNTED EQUIPMENT.
   O. TOLERANCES
      1) INSTALL MEMBERS TO PROVIDE SURFACE PLANE WITH MAXIMUM VARIATION OF 1/8 INCH IN 10 FEET IN ANY DIRECTION.
      2) LOCATE ASSEMBLIES WITHIN 1/4 INCH OF REQUIRED LOCATIONS.

092900 - GYPSUM BOARD

1. GENERAL
   A. SECTION INCLUDES:
      1) GYPSUM BOARD AND ACCESSORIES.
      2) PATCHING AND TREATMENT OF EXISTING WALL SURFACES.
   B. QUALITY ASSURANCE:
      1) PERFORM WORK IN ACCORDANCE WITH GA 216, UNLESS SPECIFIED OTHERWISE, OR REQUIRED OTHERWISE TO MEET FIRE RATING REQUIREMENTS.

2. PRODUCTS:
   A. MANUFACTURER: ONE OF THE FOLLOWING.
      1) CERTAINTEED CORP.
      2) GEORGIA-PACIFIC GYPSUM, LLC.
      3) LAFARGE NORTH AMERICA
      4) NATIONAL GYPSUM COMPANY
      5) TEMPLE-INLAND INC.
      6) USG CORP.
   B. GYPSUM BOARD: ASTM C1396; 5/8 INCH THICK; TYPE X FOR USE IN FIRE RATED PARTITIONS; CONTRACTOR'S OPTION AT OTHER LOCATIONS.
   C. STANDARD BOARD: ASTM C1396.
   D. WATER RESISTANT BOARD: ASTM C1396.
   E. ACCESSORIES:
      1) INTERIOR GYPSUM TRIM:
         A) CONFORM TO GA 216, UNLESS INDICATED OR SPECIFIED OTHERWISE.
         B) CONCEALED FLANGE CRIMP-ON OR TAPE-ON TYPE; METAL.
      2) CUSTOM TRIM: AS INDICATED, BY MILGO BUFKIN, BROOKLYN, NY (718-388-6476).
      3) EXPANSION JOINT: BALCO INC (316-945-9328); "7500 SERIES," CLEAR ANODIZE FINISHED EXTRUSION; INSERT COLOR AS SELECTED BY ARCHITECT.
      4) JOINT COMPOUND, TAPE, AND FINISHING COMPOUND: ASTM C475; PAPER TAPE, TYPICAL; SELF-ADHESIVE FIBERGLASS MESH TAPE FOR USE AT SURFACES TO RECEIVE ADHERED TILE OR THIN BRICK.
      5) SCREWS: ASTM C1002.
      6) PROPRIETARY SKIM COAT: USG "TUFF-HIDE SHEETROCK BRAND PRIMER-SURFACER."

3. EXECUTION
   A. INSTALLATION STANDARD: UNLESS SPECIFIED OTHERWISE, PERFORM WORK IN ACCORDANCE WITH GYPSUM ASSOCIATION GA-216.
   B. INSTALL WATER RESISTANT BOARD RESTROOM WALLS AS A SUBSTRATE FOR SURFACES SCHEDULED TO RECEIVE CERAMIC TILE IN TOILET COMPARTMENTS.
   C. SCREW FASTEN BOARD TO FRAMING.
   D. TRIM:
      1) USE LONGEST PRACTICAL LENGTHS, WITH NO PIECE LESS THAN 2 FEET LONG FOR CONTINUOUS RUNS GREATER THAN 8 FEET. SECURELY FASTEN AND ALIGN TRIM ENDS AT JOINTS.
      2) PLACE CONCEALED FLANGE CORNER BEADS AT ALL EXTERNAL CORNERS. AT ANGLES OTHER THAN 90 DEGREES, BEND THE FLANGE TO CONFORM TO THE ANGLE.
      3) PLACE CONCEALED FLANGE TYPE L TRIM WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
      4) USE J TRIM AT EXPOSED GYPSUM BOARD EDGES WHERE SEALANT JOINT IS INDICATED.
      5) INSTALL CONTROL JOINT TRIM IN GYPSUM BOARD FIELDS WITH CONTINUOUS RUNS IN EXCESS OF 30 FEET, AND IN LOCATIONS AS DIRECTED CONFIRM LOCATIONS WITH ARCHITECT.
   E. FINISHING:
      1) PROVIDE FINISHING IN ACCORDANCE WITH GA 214.
      2) WHERE NECESSARY TO SAND, DO SO WITHOUT DAMAGING THE FACE OF THE GYPSUM BOARD.
      3) LEVELS OF FINISH:
         A) LEVEL 5: PROVIDE AT THE FOLLOWING LOCATIONS:
            (1) SURFACES PERPENDICULAR AND ADJACENT TO OR NEAR (WITHIN 24 INCHES OF) EXTERIOR WINDOWS, AND SURFACE MOUNTED LIGHT FIXTURES.
            (2) SURFACES TO RECEIVE DEEP TONE COLORS
            (3) SURFACES TO RECEIVE SPECIALTY PLASTER FINISHES.
         B) LEVEL 4: PROVIDE UNLESS INDICATED OR SPECIFIED OTHERWISE.
         C) LEVEL 3: PROVIDE AT THE FOLLOWING LOCATIONS:
            (1) SURFACES TO RECEIVE FABRIC WALL COVERING.
         D) LEVEL 2: PROVIDE AT THE FOLLOWING LOCATIONS:
            (1) STORAGE ROOMS.
            (2) MECHANICAL ROOMS.
            (3) JANITORS CLOSETS.
            (4) SURFACES TO RECEIVE TILE OR OTHER THICK FINISH MATERIALS APPLIED TO GYPSUM BOARD SURFACES.
         E) LEVEL 1: PROVIDE AT THE FOLLOWING LOCATIONS:
            (1) SURFACES OF FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK ("FIRE-TAPING").
            (2) SURFACES OF ACOUSTICAL ASSEMBLIES CONCEALED FORM VIEW IN THE FINISHED WORK
         F) LEVEL 0: PROVIDE AT THE FOLLOWING LOCATIONS:
            (1) SURFACES OF NON-FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK, INCLUDING SURFACES TO BE COVERED BY CASEWORK, WOOD PANELING,
      4) LEVEL 4 AND 5 FINISHES: RETURN TO THE SITE AFTER PRIMER IS APPLIED, AND TOUCH-UP SURFACE DEFECTS.
      5) PROPRIETARY SKIM COAT MATERIAL MAY BE USED IN LIEU OF JOINT COMPOUND AS SKIM COAT AT LEVEL 5 SURFACES.

093000 - TILE

1. GENERAL
   A. SECTION INCLUDES:
      1) INTERIOR CERAMIC WALL TILE.
      2) INTERIOR CERAMIC OR STONE FLOOR.
      3) REINFORCED WATERPROOF MEMBRANES.
      4) CLEAVAGE MEMBRANES.
      5) REINFORCING MESH.
      6) SCREEDS.
      7) SOLID SURFACING THRESHOLD.
      8) SEALER.
   B. REFERENCES:
      1) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):
         A) A108.1 - CERAMIC TILE INSTALLED WITH PORTLAND CEMENT MORTAR.
         B) A108.1A - CERAMIC TILE INSTALLED WITH PORTLAND CEMENT MORTAR, REINFORCING, AND CLEAVAGE MEMBRANE.
         C) A108.4 - CERAMIC TILE INSTALLED WITH WATER-RESISTANT ORGANIC ADHESIVE.
         D) A108.5 - CERAMIC TILE INSTALLED WITH DRY-SET AND LATEX PORTLAND CEMENT MORTAR.
         E) A118.4 - LATEX-PORTLAND CEMENT MORTAR.
         F) A108.10 - INSTALLATION OF GROUT IN TILEWORK.
         G) A118.4 - LATEX-PORTLAND CEMENT MORTAR.
         H) A118.10 - STANDARD FOR LOAD BEARING, BONDED, WATERPROOF MEMBRANES FOR THIN-SET CERAMIC TILE AND DIMENSION STONE INSTALLATION.
         I) A136.1 - ORGANIC ADHESIVE FOR INSTALLATION OF CERAMIC TILE
         J) A137.1 - CERAMIC TILE
   C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
      1) C144 - AGGREGATE FOR MASONRY MORTAR.
      2) C150 - PORTLAND CEMENT.
      3) C206 - FINISHING HYDRATED LIME.
      4) C207 - HYDRATED LIME FOR MASONRY PURPOSES.
      5) TILE COUNCIL OF AMERICA (TCA): HANDBOOK OF FOR CERAMIC TILE INSTALLATION, CURRENT EDITION.
   D. SUBMITTALS:
      1) SAMPLES:
         A) TILE: SUBMIT SAMPLES OF EACH TYPE AND COLOR OF TILE. INCLUDE REPRESENTATIVE RANGE OF COLORS AND FINISHES TO BE EXPECTED.
         B) GROUT: SUBMIT CURED SAMPLES OF EACH GROUT COLOR. FURNISH 2 CURED SAMPLES OF APPROVED GROUT COLORS TO THE EXPANSION JOINT SEALER INSTALLER FOR COLOR MATCHING.
         C) SCREEDS: SUBMIT SAMPLES OF EACH TYPE AND FINISH OF SCREED; MINIMUM 3 INCH LENG