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**THE GENERAL CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS AGAINST AND CONFIRM SUCH DIMENSIONS AGAINST ACTUAL SITE CONDITIONS. THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK AND RELATED TRADES, AND SHALL NOTIFY THE ARCHITECT OF ANY INTERFERENCE OF MECHANICAL, ELECTRICAL, OR PLUMBING WORK WITH THE ARCHITECTURAL WORK AND OF ANY CONFLICTS OR DISCREPANCIES IN DIMENSIONS AGAINST ON SITE CONDITIONS PRIOR TO PROCEEDING WITH THE WORK OR PROCUREMENT OF MATERIALS.**



1 Federal Street  
Springfield, MA 01115  
Project No: 044.82

Drawn by: **BP**  
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Drawing: **Fourth Floor Construction Notes**

No. **A-7.04**

**CONSTRUCTION WASTE MANAGEMENT**

- DESCRIPTION THIS SPECIFICATION COVERS THE REQUIREMENTS FOR MANAGEMENT OF NON-HAZAROUS BUILDING CONSTRUCTION AND DEMOLITION WASTE WHICH INCLUDES PRODUCTS OF DEMOLITION, EXCESS OR UNUSABLE CONSTRUCTION MATERIALS, AND PACKAGING MATERIALS USED FOR CONSTRUCTION PRODUCTS.
- RELATED WORK
- CORPORATE POLICY
  - CONTRACTOR SHALL PRACTICE EFFICIENT WASTE MANAGEMENT WHEN SIZING, CUTTING AND INSTALLING BUILDING CONSTRUCTION PRODUCTS.
  - CONTRACTOR SHALL USE ALL REASONABLE MEANS TO DIVERT CONSTRUCTION MATERIALS AND PACKAGING MATERIALS TO RECYCLING AND INCINERATORS AND FACILITATE THEIR RECYCLING.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF A SPECIAL PROGRAMS INVOLVING REBATES OR SIMILAR INCENTIVES RELATED TO RECYCLING AND ANY REVENUES OR SAVINGS OBTAINED FROM SALVAGE OR RECYCLING SHALL ACCRUE TO THE CONTRACTOR.
  - CONTRACTOR SHALL ENSURE THAT FACILITIES USED FOR RECYCLING, REUSE AND DISPOSAL SHALL BE PERMITTED FOR THE INTENDED USE TO THE EXTENT REQUIRED BY FEDERAL, STATE AND LOCAL REGULATIONS.
- PLAN
  - CONDUCT A SITE ASSESSMENT TO ESTIMATE THE TYPES OF MATERIALS THAT WILL BE GENERATED BY DEMOLITION AT THE SITE. THE WHOLE BUILDING DESIGN GUIDE WEBSITE HAS A CONSTRUCTION WASTE MANAGEMENT DATABASE THAT CONTAINS INFORMATION ON COMPANIES THAT HALL COLLECT AND PROCESS RECYCLABLE DEBRIS FROM CONSTRUCTION PROJECTS
  - DEVELOP AND IMPLEMENT PROCEDURES TO REUSE AND RECYCLE MATERIALS TO THE GREATEST EXTENT FEASIBLE BASED UPON THE CONTRACTOR THE CONSTRUCTION AND DEMOLITION DEBRIS MANAGEMENT PLAN, THE ESTIMATED QUANTITIES OF MATERIALS, AND THE AVAILABILITY OF RECYCLING FACILITIES
  - PREPARE AND SUBMIT TO THE DESIGN PROJECT MANAGER A WRITTEN DEMOLITION DEBRIS MANAGEMENT PLAN. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING INFORMATION:
    - CONTRACTOR AND PROJECT IDENTIFICATION INFORMATION;
    - PROCEDURES TO BE USED FOR WASTE MANAGEMENT;
    - A LISTING OF THE MATERIALS TO BE REUSED, RECYCLED, OR TAKEN TO THE LANDFILL;
    - THE NAMES AND LOCATIONS OF REUSE AND RECYCLING FACILITIES OR SITES.
  - COLLECTION
    - PROVIDE NECESSARY CONTAINERS, BINS AND STORAGE AREAS TO FACILITATE EFFECTIVE WASTE MANAGEMENT.
    - CLEARLY IDENTIFY SO THAT RECYCLABLE MATERIALS ARE SEPARATED FROM TRASH AND CAN BE TRANSPORTED TO RESPECTIVE RECYCLING FACILITY FOR PROCESSING.
  - DISPOSAL
    - CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTING AND DISPOSING OF MATERIALS THAT CANNOT BE DELIVERED TO A SOURCE-SEPARATED OR MIXED MATERIALS FACILITY TO A TRANSFER STATION OR DISPOSAL FACILITY THAT CAN ACCEPT THE MATERIALS IN ACCORDANCE WITH STATE LAW.
    - BUILDING OR DEMOLITION MATERIALS WITH NO PRACTICAL USE OR THAT CANNOT BE RECYCLED SHALL BE DISPOSED OF AT A LANDFILL OR INCINERATOR.
    - REPORT WITH EACH APPLICATION FOR PROGRESS PAYMENT, THE CONTRACTOR SHALL SUBMIT A SUMMARY OF CONSTRUCTION AND DEMOLITION DEBRIS DIVERSION AND DISPOSAL, QUANTIFYING ALL MATERIALS GENERATED AT THE WORK SITE AND DISPOSED OF OR DIVERTED FROM DISPOSAL THROUGH RECYCLING.

**PAINT (CONTINUED)**

- INTERIOR SURFACES - PAINTED**
- NOTE: COATINGS LISTED ARE NOT DESIGNED TO BE USED IN AREAS REGULARLY EXPOSED TO WATER, HIGH HUMIDITY OR HARSH CHEMICALS. THESE ENVIRONMENTS MAY REQUIRE SPECIAL COATINGS. PLEASE CONTACT YOUR BENJAMIN MOORE REPRESENTATIVE FOR RECOMMENDATIONS.
- ALL AURA PRODUCTS MUST BE APPLIED AT 400-450 SQ. FT. PER GALLON TO ACHIEVE MINIMUM OF 3.8 MILS WET AND 17 MILS DRY. A WET MIL GAUGE SHOULD BE USED TO ENSURE PROPER APPLICATION. COATINGS SHOULD BE BID FOR TWO (2) COATS OF THE AURA PRODUCT.
- WOOD SURFACES:**  
 AURA INTERIOR SATIN FINISH #264 OR AURA INTERIOR SATIN FINISH #266  
 DEYWALL FLAIDR AND MASONRY WALLS  
 AURA INTERIOR SATIN FINISH #264 OR AURA INTERIOR SATIN FINISH #266  
 CONVENTIONALLY PAINTED DOORS AND DOORFRAMES  
 AURA INTERIOR SATIN FINISH #266  
 SANITIZED CELLINGS  
 CEILING FINISH TO BE DETERMINED AT TIME OF REPAINT PROJECT TO ENSURE PROPER LIGHT REFLECTANCE.

**WALL & CORNER GUARDS**

- GENERAL: SUBMIT PRODUCT DATA AND DETAILED SPECIFICATIONS FOR EACH SYSTEM COMPONENT AND INSTALLATION ACCESSORY REQUIRED, INCLUDING INSTALLATION METHODS FOR EACH TYPE OF SUBSTRATE, AND SUBMIT SHOP DRAWINGS SHOWING LOCATIONS, EXTENT AND INSTALLATION METHODS OF CORNER GUARDS OF BARRIER GUARDS AND OTHER PROTECTION SYSTEMS. SHOW METHODS OF ATTACHMENT TO ADJOINING CONSTRUCTION
- SAMPLES FOR VERIFICATION PURPOSES: SUBMIT 12 INCH LONG SAMPLE OF EACH SPECIFIED PRODUCT TO BE USED FOR VERIFICATION PURPOSES. PROPOSED FOR THIS WORK, FOR VERIFICATION OF COLOR, TEXTURE, PATTERN AND END CAP ATTACHMENT/ALIGNMENT, SUBMIT PRODUCT TEST REPORTS FROM A QUALIFIED TESTING LABORATORY SHOWING COMPLIANCE OF EACH COMPONENT WITH REQUIREMENTS INDICATED.
- INSTALLER QUALIFICATIONS: ENGAGE AN INSTALLER WHO HAS NOT LESS THAN 10 YEARS EXPERIENCE IN INSTALLATION OF SYSTEMS SIMILAR IN COMPLEXITY TO THOSE REQUIRED FOR THIS PROJECT. MANUFACTURER'S QUALIFICATIONS: NOT LESS THAN 5 YEARS EXPERIENCE IN THE PRODUCTION OF SPECIFIED PRODUCTS AND A RECORD OF SUCCESSFUL NON-SERVICE PER-FORMANCE.
- CODE COMPLIANCE: ASSEMBLIES SHOULD CONFORM TO ALL APPLICABLE CODES INCLUDING UBC, SBCCI, BOCA, OSHA, LIFE SAFETY, OSHFD AND ADA.
- FIRE PERFORMANCE CHARACTERISTICS: PROVIDE WALL PROTECTION SYSTEM COMPONENTS WITH A UL LABEL INDICATING THAT THEY ARE IDENTICAL TO THOSE TESTED IN ACCORDANCE WITH ASTM-584-94A FOR CLASS I CHAIR ACTIVITY RESISTANCE LISTED BELOW:
  - FLAME SPREAD, 25 OR LESS
  - SMOKE DEVELOPED, 450 OR LESS
- IMPACT STRENGTH: PROVIDE ASSEMBLED WALL PROTECTION UNITS THAT HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF ASTM F476-76.
- COLOR MATCH: PROVIDE WALL PROTECTION COMPONENTS THAT ARE COLOR MATCHED IN ACCORDANCE WITH THE FOLLOWING: DELTA E (DIFFERENCE OF NO GREATER THAN 1.0 UNITS ON Munsell LAB SCALE).
- SINGLE SOURCE RESPONSIBILITY: PROVIDE ALL COMPONENTS OF THE WALL PROTECTION SYSTEM MANUFACTURED BY THE SAME COMPANY TO ENSURE COMPATIBILITY OF COLOR, TEXTURE AND PHYSICAL PROPERTIES.
- VINYL/ACRYLIC EXTRUDED MATERIAL SHOULD BE HIGH IMPACT ACRYOVIN BY "CONSTRUCTION SPECIALTIES, INC." OR APPROVED EQUIV. HIGH IMPACT ACRYOVIN TO BE WITH PEBBLETITE GRAN TEXTURE WITH THICKNESS AS SPECIFIED. CHEMICAL AND STAIN RESISTANCE SHOULD BE PER ASTM D-3938 STANDARDS AS ESTABLISHED BY THE MANUFACTURER. COLORS TO BE AS INDICATED IN THE FINISH SCHEDULE FROM ONE OF MANUFACTURER'S STATIONS.
- ALUMINUM: EXTRUDED ALUMINUM RETAINERS SHOULD BE 6063-T6 ALLOY OF THICKNESS INDICATED. MINIMUM STRENGTH AND DURABILITY PROPERTIES AS SPECIFIED IN ASTM D226.
- FASTENERS: ALL FASTENERS TO BE NON-CORROSIVE AND COMPATIBLE WITH ALUMINUM RETAINERS. ALL NECESSARY FASTENERS TO BE SUPPLIED BY THE MANUFACTURER.
- PREASSEMBLE COMPONENTS IN THE SHOP TO THE GREATEST EXTENT POSSIBLE TO MINIMIZE FIELD ASSEMBLY. SURFACE PREPARATION PRIOR TO INSTALLATION SHALL BE THOROUGHLY CLEAN SUBSTRATE TO.
- REMOVE DIRT, DEBRIS AND LOOSE PARTICLES. PERFORM ADDITIONAL PRE-PARATION PROCEDURES AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS.
- INSTALL THE WORK OF THIS SECTION IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, USING ONLY APPROVED MOUNTING HARDWARE AND LOCATING ALL COMPONENTS FIRMLY INTO POSITION, LEVEL AND PLUMB.
- ADJUST INSTALLED END CAPS AS NECESSARY TO ENSURE TIGHT SEALS.
- WHERE SPACES OCCUR IN HORIZONTAL RUNS OF OVER 20 FEET, SECURE ALUMINUM RETAINER AND VINYL COVER AT DIFFERENT LOCATIONS ALONG THE RUN.

**RECYCLING OF MATERIALS**

- RECYCLING AND REUSE OPTIONS FOR CONSTRUCTION MATERIALS THERE ARE A VARIETY OF MARKETS FOR C&D MATERIALS. THE CONTRACTOR CAN CONTACT LOCAL RECYCLERS TO DETERMINE WHAT MATERIALS THEY ACCEPT AND WHETHER THEY REQUIRE THEM TO BE SEPARATED (SEPARATION AT THE SOURCE) OR MIXED. THE NATIONAL DEMOLITION AND RECYCLING ASSOCIATION (NDRA) RECYCLERS DO ACCEPT MIXED LOADS OF MATERIALS IF SEPARATION AT THE SOURCE IS NOT FEASIBLE. THE CONSTRUCTION MATERIALS RECYCLING ASSOCIATION (CMRA) REPRESENTS AND MATERIALS RECYCLING NATIONWIDE AND MEMBER RECYCLERS ARE LISTED ON THEIR WEBSITE. THE NATIONAL DEMOLITION AND RECYCLING ASSOCIATION (NDRA) REPRESENTS AND MEMBER RECYCLERS DESCRIBES HOW C&D MATERIALS ARE RECYCLED AND COMMON MARKETS FOR THOSE MATERIALS.
- TABLE 1 - C&D MATERIALS AND MARKETS**
- | MATERIAL         | HOW IS IT RECYCLED?   | RECYCLING MARKETS   |
|------------------|---|---|
| Concrete         | The material is crushed, the reinforcement bar is removed, and the material is screened for size. | Road base, Concrete fill<br>Pavement aggregate, Drainage media<br>Sub-base for roads  |
| Asphalt Shingles | After removal of nails, asphalt shingles are ground and recycled into hot-mix asphalt.            | Asphalt binder and the aggregate for hot mix asphalt  |
| Wood             | Clean, untreated wood can be re-milled, chipped or ground.  | Feed stock for engineered panel, bio-fuel<br>Biomass for lumber re-milled into flooring<br>Mash and compost<br>Animal bedding |
| Drywall          | Drywall is typically ground or broken up, and the paper is removed.                               | Gypsum wallboard<br>Cement manufacture<br>Agriculture (feed application)  |
| Metal            | Melted down and reform.   | Metal products  |
| Cardboard        | Ground and used in new pulp stock.  | Paper products  |
- CONCRETE CAN BE RECYCLED INTO MANY MARKETS THAT CURRENTLY USE CRUSHED STONE. BECAUSE CONCRETE IS COMPOSED OF MANY DIFFERENT MATERIALS, CONCRETE RECYCLING FACILITIES EXIST ACROSS THE COUNTRY. FOR MORE INFORMATION ON RECYCLING CONCRETE, VISIT WWW.CONCRETERECYCLING.ORG
- ASPHALT PAVEMENT IS HEAVILY RECYCLED CURRENTLY AND IS COMMONLY RECYCLED INTO ROAD BASES, HOT-MIX ASPHALT, EITHER IN PLACE, OR AT THE HOT-MIX ASPHALT PLANT. ASPHALT SHINGLES CAN ALSO BE GROUND AND RECYCLED INTO A HOT-MIX ASPHALT. ASPHALT SHINGLES AND ASPHALT SHINGLES PRODUCE LARGE ENERGY SAVINGS OVER THE LIFE OF THE ROADWAY BECAUSE OF THE ENERGY SAVINGS OF THE ENERGY SAVING ASPHALT BINDER FROM OIL. FOR MORE INFORMATION ON RECYCLING ASPHALT SHINGLES, VISIT SHINGLERECYCLING.ORG.
- CLEAN, UNTREATED WOOD CAN BE RE-MILLED INTO LUMBER OR CHIPPED OR GROUND AND USED TO MAKE ENGINEERED BOARD, SOLID FUEL, AND MASH FOR ALL MARKETS. WOOD CONTAMINATED WITH LEAD-BASED PAINT OR WOOD PRESERVATIVES SHOULD BE REMOVED AND MANAGED ACCORDING TO LOCAL REGULATIONS.
- COMMON METALS FOUND AT A CONSTRUCTION, DEMOLITION OR RENOVATION SITE INCLUDE STEEL, ALUMINUM, AND COPPER. CONSTRUCTION SITES FREQUENTLY GENERATE LARGE AMOUNTS OF CARDBOARD WASTE. WHEN NEW APPLIANCES AND MATERIALS ARE WASTED TO THE SITE IN CARDBOARD BOXES, MARKETS ARE WELL-ESTABLISHED FOR METALS AND CARDBOARD. LOCAL METAL RECYCLING PRODUCT PERFORMANCE EXTREMELY HIGH. THESE MATERIALS ARE EASILY ACCESSIBLE.
- GYPSUM IN DRYWALL CAN BE REMOVED AND RECYCLED INTO MANY MARKETS THAT COMMONLY USE GYPSUM INCLUDING NEW DRYWALL MANUFACTURE, CEMENT MANUFACTURE AND AGRICULTURE. DRYWALL MANUFACTURE WITH LEAD-BASED PAINT SHOULD BE REMOVED PRIOR TO RECYCLING AND MANAGED APPROPRIATELY. FOR MORE INFORMATION ON DRYWALL RECYCLING, VISIT WWW.DRYWALLRECYCLING.ORG.

**CEILING (CONTINUED)**

- WHERE WIDTH OF DUCTS AND OTHER CONSTRUCTION ABOVE THE CEILING PRODUCES HANGER SPACING THAT INTERFERE WITH THE LOCATION OF HANGERS AT SPACINGS REQUIRED TO SUPPORT STANDARD SUSPENSION SYSTEM MEMBERS, INSTALL SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS IN PLACE OF TRIMZERS OR EQUIVALENT DEVICES. SEE SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS TO SUPPORT CEILING LOADS WITH PERFORMANCE LIMITS ESTABLISHED BY STANDARD FOR INSTALLATION OF CEILING SUSPENSION SYSTEMS; COMPLY WITH ASTM C 695, C.I.S.C.A. "CEILING SYSTEMS HANDBOOK", AND PER MANUFACTURER'S INSTRUCTIONS.
- SECURE WIRE HANGERS BY LOOPING AND WIRE-TYING, EITHER DIRECTLY TO STRUCTURES OR TO INSERT, EYEBOARDS, OR OTHER DEVICES THAT ARE SECURE AND APPROPRIATE FOR SUBSTRATE, AND IN A MANNER THAT WILL NOT CAUSE THEM TO DEGRADATE OR OTHERWISE FAIL DUE TO AGE, CORROSION, OR ELEVATED TEMPERATURES.
- SECURE FLAT, ANGLE, CHANNEL, AND ROD HANGERS TO STRUCTURE, INCLUDING INTERMEDIATE FRAMING MEMBERS, BY ATTACHING TO STRUCTURE WITH APPROPRIATE FASTENERS AND OTHER APPROPRIATE FOR STRUCTURE TO WHICH HANGERS ARE ATTACHED AS WELL AS FOR TYPE OF HANGER INVOLVED, AND IN A MANNER THAT WILL NOT CAUSE THEM TO DEGRADATE OR FAIL DUE TO AGE, CORROSION, OR ELEVATED TEMPERATURES.
- SPACE HANGERS NOT MORE THAN 4'-0" O.C. ALONG EACH MEMBER SUPPORTED DIRECTLY FROM HANGERS, UNLESS OTHERWISE SHOWN, AND PROVIDE HANGERS NOT MORE THAN 8 INCHES FROM ENDS OF EACH MEMBER.
- INSTALL ACOUSTICAL PANELS IN COORDINATION WITH SUSPENSION SYSTEM, WITH EDGES CONCEALED BY SUPPORT OF SUSPENSION MEMBERS. SCORE AND CUT PANELS TO FIT ACCURATELY AT BORDERS AND AT PENETRATIONS.
- CLEAR EXPOSED SURFACES OF ACOUSTICAL CEILING, INCLUDING TRIM AND SUSPENSION MEMBERS, COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR REPAIR AND TOUCH-UP. MINOR FINISH OF MINOR FINISH OF REPAIR WORK THAT CANNOT BE SUCCESSFULLY CLEANED AND REPAIRED TO PERMANENTLY ELIMINATE EVIDENCE OF DAMAGE.
- INSTALL HOLD-DOWN CLIPS FOR ACOUSTICAL CEILING PANELS IN THE IDFS PER CEILING MANUFACTURER'S SPECIFICATIONS.

**CARPET**

- WORK INCLUDED: FURNISH AND INSTALL ALL MATERIALS, TOOLS AND LABOR REQUIRED TO COMPLETE THE WORK OF THIS SECTION SUCH INCLUDES:
  - RECEIVING, STORING AND DELIVERY TO THE JOB SITE OF CARPET SUPPLIED BY OTHER CONTRACTORS.
  - SUPPLY ADHESIVE CEMENT, LABOR, CUTTING OF SEAMERS, AND OTHER ACCESSORIES REQUIRED TO PROPERLY INSTALL CARPET IN A WORKMAN LIKE MANNER.
  - PREPARATION OF SUBFLOOR, NOW AND EXISTING
- INSTALLATION
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING ALL NEW AND EXISTING SUBFLOORS TO RECEIVE CARPETING, WHERE SPECIFIED, LEVELING MATERIAL, SANDING/GRINDING, ETC. SHALL BE CONDUCTED TO SUBSTRATE AS REQUIRED FOR NEAT, SMOOTH AND INSTALLATION.
  - ALL MATERIAL SHALL BE INSTALLED BY SKILLED WORKMEN UNDER PROPER SUPERVISION. PRIOR TO INSTALLATION, ALL FLOOR IRREGULARITIES SHALL BE REPAIRED BY THE CONTRACTOR AND THE FLOOR SHALL BE THOROUGHLY CLEANED OF ALL DIRT, GRIME AND DUST REMOVED.
  - AFTER THE INSTALLATION IS COMPLETE, CLEAN UP ALL DIRT AND DEBRIS AND CLEAN CARPET OF ALL SPOTS WITH PROPER SPOT REMOVER. REMOVE ALL LOOSE THREADS WITH SHARP SCISSORS. THEN CLEAN WITH BROOM OR VACUUM CLEANER. THE OWNER SHALL VIEW ALL CARPET SCRAPS AND RETAIN ANY HE CHOOSES FOR FUTURE REPAIR BEFORE THEY ARE REMOVED FROM THE JOB SITE. THE ENTIRE INSTALLATION SHALL BE LEFT CLEAN AND IN A CONDITION APPROVED BY THE OWNER.
  - ALL GRASS SEAMS WILL BE HELD TO AN ABSOLUTE MINIMUM.
- GUARANTEES
  - A. THE CARPET INSTALLER SHALL BE RESPONSIBLE TO RE-LAY ANY CARPET THAT DOES NOT PROVIDE A CLEAN AND ACCEPTABLE APPEARANCE. THE INSTALLER SHALL BE REQUIRED TO RETURN TO RE-STRETCH OR CORRECT ANY CONDITION DUE TO FAULTY INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ORIGINAL INSTALLATION WITHOUT ANY COST TO THE OWNER.
- JAMES GORMAN NATIONAL ACCOUNT REPRESENTATIVE BENJAMIN MOORE & COMPANY
- SCOPE

**PAINT**

- THE PURPOSE OF THIS GUIDE SPECIFICATION IS TO PROVIDE A UNIFORM STANDARD FOR SURFACE PREPARATION AND FINISHING OF INTERIOR SURFACES AS SPECIFIED BENJAMIN MOORE PRODUCTS. THIS GUIDE SPECIFICATION ANSWERS ANY QUESTIONS ABOUT THE CONTENT OR MEANING OF SPECIFICATIONS SHALL BE PROVIDED BY THE MANUFACTURER'S REPRESENTATIVE.
- SCOPE**
- THIS GUIDE SPECIFICATION COVERS TYPICALLY ENCOUNTERED SUBSTRATES ON LIBERTY MUTUAL INTERIOR SURFACES. SURFACES OR CONDITIONS NOT COVERED HERE SHOULD BE INSPECTED BY BENJAMIN MOORE PERSONNEL WHO WILL MAKE PROPER RECOMMENDATIONS FOR PREPARATION AND COATING.
- WORKMANSHIP**
- SURFACES NOT TO BE COATED SHALL BE PROTECTED DURING APPLICATION OF THE NEW COATINGS. PAINT MISPLACED ON THESE SURFACES SHALL BE REMOVED IMMEDIATELY.
  - WET PAINT SIGNS SHALL BE PLACED IN ORDER TO NOTIFY ALL PERSONS HAVING BUSINESS IN OR ABOUT THE AREA, AND WHICH ARE LISTED AND LISTED FOR RATINGS INDICATED BY U.L. WARRICK/HERSEY OR OTHER TESTING AND INSPECTION AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
  - ALL GYPSUM BOARD AT OUTSIDE CORNERS SHALL RECEIVE "USO" DUR-A-HEAD #01 USE "USO" 208 METAL TRIM WHERE HEADS ARE EXPOSED. ALL JOINTS SHALL HAVE "USO" PERFORM-A-TAPE JOINT SYSTEM. ALL SURFACES TO BE TARED SHALL BE PACKAGED AND SANDED TO A CONDITION TO ACCEPT ALL NEW FINISHES.
  - THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL GYPSUM BOARD AND SYSTEMS COMPLETE WITH PARTITION FRAMING, GEL SUSPENSION SYSTEMS AND RELATED ACCESSORIES, PARTS, MATERIALS, ETC. AS SHOWN ON DRAWINGS AND AS SPECIFIED. INSTALL ALL MATERIALS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
  - AT CURVED GYPSUM WALL BOARD SURFACES, FINISHED FACE OF CURVE IS TO BE ACHIEVED BY FASTENING TO 2 LAYERS OF 1/4" GYPSUM WALL BOARD TO STUDS SPECIFIED ON THE DRAWINGS WHICH ARE TO BE SPACED AT 12" ON CENTER FOR ENTIRE LENGTH OF THE CURVE.
  - PROVIDE FIRE-RESISTANCE-RATED ASSEMBLIES IDENTICAL TO THE DESIGN DESIGNATIONS IN U.L. "FIRE RESISTANCE DIRECTORY" OR IN LISTING OF OTHER TESTING AND AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
  - SINGLE SOURCE RESPONSIBILITY: OBTAIN EACH TYPE OF GYPSUM BOARD AND RELATED JOINT TREATMENT MATERIALS FROM A SINGLE MANUFACTURER.
  - GENERAL: PROVIDE COMPONENTS WHICH COMPLY WITH ASTM C 754 FOR MATERIALS AND SIZES, UNLESS OTHERWISE INDICATED.
  - GENERAL: PROVIDE GYPSUM BOARD OF TYPES INDICATED IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END JOINTS.
  - GYPSUM WALLBOARD TO COMPLY WITH ASTM C 36, GYPSUM BACKING BOARD FOR MULTI-LAYER APPLICATION TO COMPLY WITH ASTM C 442 WATER-RESISTANT GYPSUM BACKING BOARD IS TO COMPLY WITH ASTM C 650.
  - GENERAL: PROVIDE AUXILIARY MATERIALS FOR GYPSUM DRYWALL CONSTRUCTION WHICH COMPLY WITH REFERENCED STANDARDS AND THE RECOMMENDATIONS OF THE MANUFACTURER OF THE GYPSUM BOARD.

**GYPSUM BOARD**

- FASTENERS, FASTENERS SHALL BE DRYWALL SCREWS OF PROPER SIZE AND TYPE PER MANUFACTURER'S RECOMMENDATIONS.
- ALL GYPSUM BOARD AT OUTSIDE CORNERS SHALL RECEIVE "USO" DUR-A-HEAD #01 USE "USO" 208 METAL TRIM WHERE HEADS ARE EXPOSED. ALL JOINTS SHALL HAVE "USO" PERFORM-A-TAPE JOINT SYSTEM. ALL SURFACES TO BE TARED SHALL BE PACKAGED AND SANDED TO A CONDITION TO ACCEPT ALL NEW FINISHES.
- THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL GYPSUM BOARD AND SYSTEMS COMPLETE WITH PARTITION FRAMING, GEL SUSPENSION SYSTEMS AND RELATED ACCESSORIES, PARTS, MATERIALS, ETC. AS SHOWN ON DRAWINGS AND AS SPECIFIED. INSTALL ALL MATERIALS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- AT CURVED GYPSUM WALL BOARD SURFACES, FINISHED FACE OF CURVE IS TO BE ACHIEVED BY FASTENING TO 2 LAYERS OF 1/4" GYPSUM WALL BOARD TO STUDS SPECIFIED ON THE DRAWINGS WHICH ARE TO BE SPACED AT 12" ON CENTER FOR ENTIRE LENGTH OF THE CURVE.
- PROVIDE FIRE-RESISTANCE-RATED ASSEMBLIES IDENTICAL TO THE DESIGN DESIGNATIONS IN U.L. "FIRE RESISTANCE DIRECTORY" OR IN LISTING OF OTHER TESTING AND AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- SINGLE SOURCE RESPONSIBILITY: OBTAIN EACH TYPE OF GYPSUM BOARD AND RELATED JOINT TREATMENT MATERIALS FROM A SINGLE MANUFACTURER.
- GENERAL: PROVIDE COMPONENTS WHICH COMPLY WITH ASTM C 754 FOR MATERIALS AND SIZES, UNLESS OTHERWISE INDICATED.
- GENERAL: PROVIDE GYPSUM BOARD OF TYPES INDICATED IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END JOINTS.
- GYPSUM WALLBOARD TO COMPLY WITH ASTM C 36, GYPSUM BACKING BOARD FOR MULTI-LAYER APPLICATION TO COMPLY WITH ASTM C 442 WATER-RESISTANT GYPSUM BACKING BOARD IS TO COMPLY WITH ASTM C 650.
- GENERAL: PROVIDE AUXILIARY MATERIALS FOR GYPSUM DRYWALL CONSTRUCTION WHICH COMPLY WITH REFERENCED STANDARDS AND THE RECOMMENDATIONS OF THE MANUFACTURER OF THE GYPSUM BOARD.

**CEILING**

- THE GENERAL CONTRACTOR SHALL MODIFY THE EXIST. SUSPENDED ACOUSTICAL PANEL CEILING INCLUDING THE SUSPENSION SYSTEM AND RELATED ACCESSORIES AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- SUSPENSION SYSTEMS SHALL BE ADEQUATE TO SUPPORT LIGHTING FIXTURES, CEILING GRILLES AND DIFFUSERS AND OTHER NORMAL ACCESSORIES.
- FINISHED CEILING SHALL BE WATER LEVEL WITH ALL JOINTS SQAIG AND SQUARE.
- GENERAL CONTRACTOR TO REPLACE ANY ACOUSTICAL CEILING TILES DAMAGED AS A DIRECT OR INDIRECT RESULT OF HIS WORK.
- SUSPEND CEILING HANGERS FROM PERMISSIBLE BUILDING STRUCTURAL MEMBERS AND AS FOLLOWS:
  - INSTALL HANGERS PLUMB AND FREE FROM CONTACT WITH INSULATION OR OTHER OBJECTS ABOVE CEILING THAT ARE NOT PART OF THE SUPPORTING STRUCTURE OR CEILING SUSPENSION SYSTEM. SPLAY HANGERS ONLY WHERE REQUIRED TO MISS OBSTRUCTIONS AND OFFSET RESULTING HORIZONTAL FORCES BY BRACING.
  - DO NOT PARTITION INSULATION TO PARTITIONS INSTALL AT LEAST 3 WALL ANCHORS PER JAMB CONTACT WITH STUD STRIKES.

**FINISH CARPENTRY (CONTINUED)**

- PROVIDE MATERIALS THAT COMPLY WITH REQUIREMENTS OF THE AWI WOODWORKING STANDARD FOR EACH TYPE OF WOODWORK AND QUALITY GRADE AS SHOWN ON THE ARCHITECT'S DRAWINGS AND DRAWER HARDWARE (HINGES, STOPS, PLUMS, LATCHES, ETC.) MUST
- BE HEAVY-DUTY COMPONENTS (100 # LOAD MINIMUM)
- MANUFACTURER. OBTAIN EACH TYPE OF HARDWARE (LATCH AND LOCK SETS, HINGES, CLOSERS, ETC.) FROM A SINGLE MANUFACTURER, ALTHOUGH SEVERAL MAY BE INDICATED AS OFFERING PRODUCTS COMPLYING WITH SYSTEMS HANDBOOK", AND PER MANUFACTURER'S INSTRUCTIONS.
- FIRE-RATED OPENINGS: PROVIDE HARDWARE FOR FIRE-RATED OPENINGS IN COMPLIANCE WITH NFPA STANDARD NO. 80 AND LOCAL BUILDING CODE REQUIREMENTS. PROVIDE ONLY HARDWARE WHICH HAS BEEN TESTED AND LISTED BY U.L. OR FOR TYPES AND SIZES OF DOORS, WINDOWS AND COMPLIES WITH REQUIREMENTS OF DOOR AND DOOR FRAME LABELS.
- PRODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA FOR EACH ITEM OF HARDWARE. INCLUDE WHATEVER INFORMATION MAY BE NECESSARY TO SHOW COMPLIANCE WITH REQUIREMENTS, AND INCLUDE INSTRUCTIONS FOR INSTALLATION AND FOR MAINTENANCE OF OPERATING PARTS AND FINISHES.
- HARDWARE SCHEDULE: SUBMIT FINAL HARDWARE SCHEDULE IN MANNER INDICATED BELOW. COORDINATE HARDWARE WITH DOORS, FRAMES AND RELATED WORK TO INSURE PROPER SIZE, THICKNESS, HAND, FUNCTION AND FINISH OF HARDWARE. FINAL HARDWARE SCHEDULE CONTENT TO INCLUDE THE FOLLOWING INFORMATION:
  - TYPE, STYLE, FUNCTION, SIZE AND FINISH OF EACH HARDWARE ITEM
  - NAME AND MANUFACTURER OF EACH ITEM
  - FASTENINGS AND OTHER PERTINENT INFORMATION
  - ON EDGES CONCEALED BY SUPPORT OF SUSPENSION MEMBERS. SCORE AND CUT PANELS TO FIT ACCURATELY AT BORDERS AND AT PENETRATIONS.
  - EXPLANATION OF ALL ABBREVIATIONS, SYMBOLS, CODES, ETC.
  - DOORING LOCATIONS FOR HARDWARE
  - DOOR AND FRAME SIZES AND MATERIALS.
- TEMPLATES: FURNISH HARDWARE TEMPLATES TO EACH FABRICATOR OF DOORS, FRAMES AND OTHER WORK TO BE FACTORY-PREPARED FOR THE INSTALLATION OF HARDWARE. UPON REQUEST, CHECK SHOP DRAWINGS OF SUCH OTHER WORK, TO CONFIRM THAT ADEQUATE PROVISIONS ARE MADE FOR PROPER LOCATION AND INSTALLATION OF HARDWARE.
- MOUNT HARDWARE UNITS AT HEIGHTS INDICATED IN "RECOMMENDED MOUNTING HEIGHTS" FOR STANDARD STEEL DOORS AND FRAMES" BY THE DOOR AND HARDWARE INSTITUTE, EXCEPT AS SPECIFICALLY INDICATED OR REQUIRED TO COMPLY WITH GOVERNING REGULATIONS, AND EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS.
- INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. WHEREVER CUTTING AND FITTING ARE REQUIRED TO FIT HARDWARE TO SUBSTRATE, CUTTING OPERATIONS ARE TO BE PERFORMED IN ANOTHER WAY. COORDINATE REMOVAL, STORAGE, AND INSTALLATION OR APPLICATION OF SURFACE PROTECTIVE FINISHES WITH FINISHING WORK. DO NOT INSTALL SURFACE-MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.
- SET UNITS LEVEL, PLUMB AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE THE ATTACHMENT SUBSTRATE AS NECESSARY FOR PROPER INSTALLATION AND OPERATION.
- ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION OR FUNCTION OF EVERY UNIT. REPLACE UNITS WHICH DO NOT OPERATE FREELY AND SMOOTHLY, AS INTENDED FOR THE APPLICATION MADE.
- INSTRUCT OWNER'S PERSONNEL IN PROPER ADJUSTMENT AND MAINTENANCE OF HARDWARE AND HARDWARE FINISHES, DURING THE FINAL ADJUSTMENT OF HARDWARE.
- REPAIR DAMAGED AND DEFECTIVE WOODWORK WHERE POSSIBLE TO ELIMINATE DEFECTS FUNCTIONALLY AND VISUALLY, WHERE NOT POSSIBLE TO REPAIR, REPLACE WOODWORK. ADJUST JOINEERY FOR UNIFORM APPEARANCE.
- CLEAN, LUBRICATE, AND ADJUST HARDWARE.

**DOORS**

- THE GENERAL CONTRACTOR SHALL INSTALL ALL DOORS, FRAMES AND HARDWARE AND MATERIALS AND FINISHES AS INDICATED ON THE DRAWINGS, ON THE DOOR SCHEDULE & AS SPECIFIED HEREIN. ALL DOORS, FRAMES & HARDWARE SHALL BE FABRICATED AND ERECTED TRUE, PLUMB & SQUARE AS SPECIFIED, AS DETAILED AND PER MANUFACTURER'S RECOMMENDATIONS.
- SUBMIT DOOR MANUFACTURER'S TECHNICAL DATA FOR EACH TYPE OF DOOR, INCLUDING DETAILS OF CORE AND EDGE CONSTRUCTION, TRIM FOR OPENINGS AND LOWERS, AND FACTORY FINISHING SPECIFICATIONS. SUBMIT SHOP DRAWINGS INDICATING LOCATION AND SIZE OF EACH DOOR, INCLUDING FINISHING AND FACTORY FINISHING SPECIFICATIONS. LOCATION AND EXTENT OF HARDWARE BLOCKING, FIRE RATINGS, REQUIREMENTS FOR FACTORY FINISHING AND OTHER PERTINENT DATA INCLUDING DIMENSIONS AND LOCATIONS OF CUTOUTS FOR LOCKSETS. ALSO, SUBMIT SAMPLES, 12" SQUARE, SAMPLE OF DOOR FOR TRANSPARENT FINISH SHOWING DOOR FACES WITH SOLID WOOD EDGING REPRESENTING TYPICAL RANGE OF COLOR AND GRAIN OF VENEER AND SOLID LUMBER REQUIRED.
- ALL FLUSH WOOD DOORS TO COMPLY WITH THE FOLLOWING STANDARDS: MINIMUM QUALITY STANDARD: "INDUSTRY STANDARD FOR WOOD FLUSH DOORS", OF NATIONAL WOOD WINDOW AND DOOR ASSOCIATION (NWWDA), AND AWI QUALITY STANDARD "ARCHITECTURAL WOODWORK QUALITY STANDARDS" WHICH INCLUDES REQUIREMENTS FOR WOOD FLUSH DOORS OF THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) FOR GRADE OF DOOR, CORE CONSTRUCTION FINISH AND OTHER REQUIREMENTS EXCEEDING THOSE OF NWWDA QUALITY STANDARD. MARK EACH WOOD DOOR WITH NWWDA WOOD FLUSH DOOR CERTIFICATION HALLMARK CERTIFYING COMPLIANCE WITH THE QUALITY STANDARDS.
- FLUSH WOOD DOORS FOR TRANSPARENT FINISH ARE TO COMPLY W/ THE FOLLOWING REQUIREMENTS:
  - AWI GRADE: PREMIUM
  - FACES: MATCH EXISTING
  - MATCHING BTWN INDIVIDUAL PILES OF VENEER: MFR. STANDARD ASSEMBLY OF VENEER ON A FACE: MFR. STANDARD CONSTRUCTION: PC-3 (PARTICLEBOARD CORE) W/ MATCHING VERTICAL EDGES (FOR NOSE FINISH ITS. ALLOWED 1/8" MAXIMUM) AND FOR ITS-5 (MENERAL CORE) WITH MATCHING VERTICAL EDGES (FOR FIRE-RATED DOORS), NO FINER ITS. ALLOWED 1/16" MAXIMUM
  - FLUSH WOOD FACE VENEER GRADE: AWI/MFVIA GRADE A
- OBTAIN FLUSH WOOD DOORS FROM A SINGLE MFR. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS OF ONE OF THE FOLLOWING OR AN APPROVED EQUAL.
  - ALOMA HARDWOODS, INC.
  - EQUERS INDUSTRIES, ARCHITECTURAL DOOR DIVISION
  - WEYERHAEUSER COMPANY.
- FOR FIRE-RATED WOOD DOORS PROVIDE WOOD DOORS WHICH ARE IDENTICAL IN MATERIALS AND CONSTRUCTION TO UNITS TESTED IN DOOR FRAME ASSEMBLIES PER ASTM E 119, AND WHICH ARE LISTED AND LISTED FOR RATINGS INDICATED BY U.L. WARRICK/HERSEY OR OTHER TESTING AND INSPECTION AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- SAFETY GLAZING STANDARD: PROVIDE SAFETY GLASS OF TYPE INDICATED OR REQUIRED BY AUTHORITY HAVING JURISDICTION. PROVIDE SAFETY GLAZING COMPLY WITH ANSI Z97.1 AND TESTING REQUIREMENTS OF 16 CFR PART 1201 FOR CATEGORY I MATERIALS EXCEPT WHERE THOSE OF CATEGORY I ARE EXPRESSLY INDICATED AND PERMITTED. TRIM GLAZING OPENINGS W/ SOLID WOOD MOLDINGS OF PROFILE INDICATED, REMOVABLE ONE SIDE.
- SUBMIT WRITTEN AGREEMENT IN DOOR MANUFACTURER'S STANDARD FORM SIGNED BY MANUFACTURER, INSTALLER AND CONTRACTOR, AGREEING TO REPAIR OR REPLACE DEFECTIVE DOORS THAT HAVE WARPED (BOW, CUP OR TWIST) OR THAT SHOW TELEGRAPHING OF THE CONSTRUCTION IN FACE OR VENEER, OR DO NOT CONFORM TO TOLERANCE LIMITATIONS OF REFERENCED QUALITY STANDARDS. DOOR WARRANTIES SHALL BE FOR THE LIFE OF EACH DOOR AND SHALL BE IN ADDITION TO, AND NOT A LIMITATION OF, OTHER RIGHTS THE OWNER MAY HAVE UNDER THE CONTRACT DOCUMENTS.
- FABRICATE FLUSH WOOD DOORS TO PRODUCE DOORS COMPLYING WITH SIZES INDICATED FOR JOB-SITE FITTING, FACTORY-FITTED AND PREMACHINE DOORS TO FIT FRAME OPENING SIZES INDICATED, COMPLY WITH TOLERANCE REQUIREMENTS OF AWI FOR PREFITTING, COMPLY WITH FINAL HARDWARE SCHEDULES AND DOOR FRAME SHOP DRAWINGS AND WITH HARDWARE TEMPLATES. COORDINATE MEASUREMENTS OF HARDWARE MORTISES IN METAL FRAMES TO VERIFY DIMENSIONS AND ALIGNMENT BEFORE PROCEEDING WITH FACTORY PREMACHING.
- COMPLY WITH REFERENCED AWI QUALITY STANDARDS INCLUDING SECTION 1500 "FACTORY FINISHING", PREFINISH WOOD DOORS AT THE FACTORY, DOOR FINISHING TO COMPLY W/ THE FOLLOWING REQUIREMENTS:
  - AWI FINISH SYSTEM: TR-2 CATALYZED LACQUER OR DOOR FINISHING SYSTEM: SATIN 30-50 DEG.
  - STAINING: MATCH APPROVED SAMPLE FOR COLOR. EFFECT: GLOSSED GRAY.
- INSTALL WOOD DOORS TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND OF REFERENCED AWI STANDARD. INSTALL FIRE-RATED DOORS IN CORRESPONDING FIRE-RATED FRAMES IN ACCORDANCE WITH REQUIREMENTS OF NFPA NO. 80.
- ALLOW DOORS TO BECOME ACCLIMATED TO FINISHED BUILDING HEAT AND HUMIDITY BEFORE FITTING AND HANGING.

- GENERAL CONTRACTOR SHALL REMOVE, REPLACE, RESTORE OR SATISFACTORY REPAIR ALL PORTIONS OF THE WORK WHICH ARE BROKEN, MISSING, STRUCTURALLY UNSAFE OR UNSOUND, BENT, TORN OR OTHERWISE DEFICIENT OR INURED IN ANY MANNER, AS DIRECTED BY THE ARCHITECT.
- THROUGHOUT CONSTRUCTION PERIOD, KEEP PROJECT SITE CLEAN AND NEAT IN APPEARANCE, DO NOT ALLOW HAZARDOUS DANGEROUS OR UNSANITARY CONDITIONS, OR PUBLIC NUISANCES TO DEVELOP OR PERSIST ON THE SITE. DEVELOP AND MAINTAIN WORKER OR PROFESSIONAL CLEANER FOR CLEANING CLEAN EACH SURFACE OR UNIT TO THE CONDITION EXPECTED IN NORMAL COMMERCIAL USE. KEEP THE GENERAL CONTRACTOR COMPLY WITH MANUFACTURER'S INSTRUCTIONS.
- GENERAL CONTRACTOR TO PROVIDE ALL TEMPORARY LIGHTING AS REQUIRED DURING CONSTRUCTION.

**CONCRETE**

- ANY CONTRACTORS REQUIRED TO TRENCH OR CHP CONCRETE FLOOR SLABS FOR RELOCATION OF THE WORK, SHALL BE RESPONSIBLE TO BACKFILL AND PATCH AS REQUIRED TO RETURN THE SURFACE TO ITS ORIGINAL CONDITION.
- SEE THE ARCHITECTURAL AND FINISH PLANS FOR ADDITIONAL NOTES REGARDING THE EXISTING CONCRETE FLOOR.

**METALS**

- METAL STUDS: GALVANIZED STEEL, STUDS SIZE AS INDICATED ON DRAWINGS OR AS RECD AND ARE TO INCLUDE ALL ACCESSORIES, SUCH AS BRIDGING, TRUCK ETC. PROVIDE ALL MISCELLANEOUS BOLTS, CLIPS, ANCHORS, ANGLES, BRACKETS, SLEEVES, FASTENERS, AND OTHER METAL ITEMS AS REQUIRED.
- STUD SPACING AS INDICATED ON DRAWINGS.

**ROUGH CARPENTRY**

- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND COORDINATING AMOUNTS AND LOCATION OF BLOCKING REQUIRED FOR WALL MOUNTED SHELVING, CABINETRY, COUNTERS, ETC.
- ALL WOOD FRAMING, BLOCKING, ETC., SHALL BE FIRE RETARDANT.
- NO WOOD OR COMBUSTIBLE MATERIAL OF ANY KIND SHALL BE USED INTO THE CEILING.

**FINISH CARPENTRY**

- INSTALLER QUALIFICATIONS: ARRANGE FOR INSTALLATION OF ARCHITECTURAL WOODWORK BY A FIRM THAT CAN DEMONSTRATE SUCCESSFUL EXPERIENCE IN INSTALLING ARCHITECTURAL WOODWORK ITEMS SIMILAR IN TYPE AND QUALITY TO THOSE REQUIRED FOR THIS PROJECT.
- AWI QUALITY STANDARD: COMPLY WITH APPLICABLE REQUIREMENTS OF "ARCHITECTURAL WOODWORK QUALITY STANDARDS" PUBLISHED BY THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) EXCEPT AS OTHERWISE INDICATED.
- FIELD MEASUREMENTS: WHERE WOODWORK IS INDICATED TO BE FITTED TO OTHER CONSTRUCTION, CHECK ACTUAL DIMENSIONS OF OTHER CONSTRUCTION BY ACCURATE FIELD MEASUREMENTS BEFORE MANUFACTURING WOODWORK. SHOW RECORDED MEASUREMENTS ON FINAL SHOP DRAWINGS. COORDINATE MANUFACTURING SCHEDULE WITH MANUFACTURING PROGRESS TO AVOID DELAY OF WORK. WHEN FIELD MEASUREMENTS CANNOT BE MADE WITHOUT DELAYING THE WORK, IMMEDIATE FIELD MEASUREMENTS AND RECORDING OF MANUFACTURING WITHOUT FIELD MEASUREMENTS. COORDINATE OTHER CONSTRUCTION TO ENSURE THAT ACTUAL DIMENSIONS CORRESPOND TO GUARANTEED DIMENSIONS.

**DOOR FRAMES**

- PROVIDE DOOR FRAMES W/ MITRED AND WELDED CORNERS COMPLYING WITH STEEL DOOR AND FRAME INSTITUTE RECOMMENDED STANDARD STEEL DOORS AND FRAMES' ANSI/SD1-100 AND AS SPECIFIED HEREIN.
- DOOR FRAME SUPPORTS AND ANCHORS TO BE FABRICATED FROM NOT LESS THAN 3 GAUGE SHEET STEEL GALVANIZED WHERE USED WITH GALVANIZED FRAMES.
- ASSEMBLE DOOR FRAMES TO BE RIGID, NEAT IN APPEARANCE AND FREE FROM DEFECTS, WARP OR BUCKLE.
- TOLERANCES: COMPLY W/ SD 111 "MANUFACTURING TOLERANCES STANDARD STEEL DOORS AND FRAMES".
- GENERAL: PROVIDE GYPSUM BOARD OF TYPES INDICATED IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END JOINTS.
- IN METAL STUD PARTITIONS INSTALL AT LEAST 3 WALL ANCHORS PER JAMB CONTACT WITH STUD STRIKES.

**GENERAL CONDITIONS**