GENERAL CONDITIONS

SECTION 014200 - REFERENCES

PART 1 - GENERAL

1.1 INDUSTRY STANDARDS
A. APPLICABILITY OF STANDARDS: UNLESS THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABLE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND OR COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS TO THE EXTENT REFERENCED. SUCH STANDARDS ARE MADE A PART OF THE CONTRACT DOCUMENTS BY REFERENCE.
B. PUBLICATION DATES: COMPLY WITH STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS UNLESS OTHERWISE INDICATED.
C. COPIES OF STANDARDS: EACH ENTITY ENGAGED IN CONSTRUCTION ON PROJECT SHOULD BE FAMILIAR WITH INDUSTRY STANDARDS APPLICABLE TO ITS CONSTRUCTION ACTIVITY. COPIES OF APPLICABLE STANDARDS ARE NOT BOUND WITH THE CONTRACT DOCUMENTS.
1. WHERE COPIES OF STANDARDS ARE NEEDED TO PERFORM A REQUIRED CONSTRUCTION ACTIVITY, OBTAIN COPIES DIRECTLY FROM PUBLICATION SOURCE.

1.2 ABBREVIATIONS AND ACRONYMS
A. INDUSTRY ORGANIZATIONS: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.

ACI	AMERICAN CONCRETE INSTITUTE
AHA	AMERICAN HARDBOARD ASSOCIATION
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	APA - THE ENGINEERED WOOD ASSOCIATION
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASTM	ASTM INTERNATIONAL (AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL)
AWI	ARCHITECTURAL WOODWORK INSTITUTE
AWPA	AMERICAN WOOD PROTECTION ASSOCIATION (FORMERLY: AMERICAN WOOD PRESERVERS' ASSOCIATION)
CRI	CARPET AND RUG INSTITUTE (THE)
CRRC	COOL ROOF RATING COUNCIL
CSA	CANADIAN STANDARDS ASSOCIATION
CSA	CSA INTERNATIONAL (FORMERLY: IAS - INTERNATIONAL APPROVAL SERVICES)
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE (THE)
ETL SEMCO	INTERTEK ETL SEMCO (FORMERLY: ITS - INTERTEK TESTING SERVICE NA)
FM GLOBAL	FM GLOBAL (FORMERLY: FMG - FM GLOBAL)
FSC	FOREST STEWARDSHIP COUNCIL
HPVA	HARDWOOD PLYWOOD & VENEER ASSOCIATION
ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ITS	INTERTEK TESTING SERVICE NA (NOW ETL SEMCO)
MFMA	MAPLE FLOORING MANUFACTURERS ASSOCIATION, INC.
MPI	MASTER PAINTERS INSTITUTE
NFPA	NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
NOFMA	NOFMA: THE WOOD FLOORING MANUFACTURERS ASSOCIATION (FORMERLY: NATIONAL OAK FLOORING MANUFACTURERS ASSOCIATION)
OPL	INTERTAK
SDI	STEEL DOOR INSTITUTE
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
UL	UNDERWRITERS LABORATORIES INC.
USGBC	U.S. GREEN BUILDING COUNCIL
WCLIB	WEST COAST LUMBER INSPECTION BUREAU
WI	WOODWORK INSTITUTE (FORMERLY: WIC - WOODWORK INSTITUTE OF CALIFORNIA)

B. CODE AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.

DIN	DEUTSCHES INSTITUT FUR NORMUNG E.V.
ICC	INTERNATIONAL CODE COUNCIL
ICC-ES	ICC EVALUATION SERVICE, INC.

C. FEDERAL GOVERNMENT AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.

EPA	ENVIRONMENTAL PROTECTION AGENCY

D. STANDARDS AND REGULATIONS: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE STANDARDS AND REGULATIONS IN THE FOLLOWING LIST.

ADAAG	AMERICANS WITH DISABILITIES ACT (ADA) ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AVAILABLE FROM U.S. ACCESS BOARD
CFR	CODE OF FEDERAL REGULATIONS AVAILABLE FROM GOVERNMENT PRINTING OFFICE

E. STATE GOVERNMENT AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST.

CDHS	CALIFORNIA DEPARTMENT OF HEALTH SERVICES
CDPH	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, INDOOR AIR QUALITY SECTION

END OF SECTION 014200

GENERAL CONDITIONS

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

1.1 SUMMARY
A. SALVAGING NON-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
B. RECYCLING N0N-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
C. DISPOSING OF N0N-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.

1.2 DEFINITIONS
A. CONSTRUCTION WASTE: BUILDING AND SITE IMPROVEMENT MATERIALS AND OTHER SOLID WASTE RESULTING FROM CONSTRUCTION, REMODELING, RENOVATION, OR REPAIR OPERATIONS. CONSTRUCTION WASTE INCLUDES PACKAGING.
B. DEMOLITION WASTE: BUILDING AND SITE IMPROVEMENT MATERIALS RESULTING FROM DEMOLITION OR SELECTIVE DEMOLITION OPERATIONS.
C. DISPOSAL: REMOVAL OFF-SITE OF DEMOLITION AND CONSTRUCTION WASTE AND SUBSEQUENT SALE, RECYCLING, REUSE, OR DEPOSIT IN LANDFILL OR INCINERATOR ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
D. RECYCLE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE FOR SUBSEQUENT PROCESSING IN PREPARATION FOR REUSE.
E. SALVAGE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT SALE OR REUSE IN ANOTHER FACILITY.
F. SALVAGE AND REUSE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT INCORPORATION INTO THE WORK.

END OF SECTION 017419

CONCRETE

SECTION 033500 - CONCRETE FINISHING

1.1 SUBMITTALS
A. QUALIFICATION DATA: FOR QUALIFIED APPLICATOR.
B. MATERIAL CERTIFICATES.

1.2 FLOOR AND SLAB TREATMENTS
A. VOC CONTENT: FLOOR TREATMENTS SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
B. UNPIGMENTED MINERAL DRY-SHAKE FLOOR HARDENER: FACTORY-PACKAGED DRY COMBINATION OF PORTLAND CEMENT, GRADED QUARTZ AGGREGATE, AND PLASTICIZING ADMIXTURE.
C. PIGMENTED MINERAL DRY-SHAKE FLOOR HARDENER: FACTORY-PACKAGED, DRY COMBINATION OF PORTLAND CEMENT, GRADED QUARTZ AGGREGATE, COLOR PIGMENTS, AND PLASTICIZING ADMIXTURE. USE COLOR PIGMENTS THAT ARE FINELY GROUND, NONFADING MINERAL OXIDES INTERGROUND WITH CEMENT.

1.3 LIQUID FLOOR TREATMENTS
A. VOC CONTENT: LIQUID FLOOR TREATMENTS SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
B. PENETRATING LIQUID FLOOR TREATMENT: CLEAR, CHEMICALLY REACTIVE, WATERBORNE SOLUTION OF INORGANIC SILICATE OR SILICONATE MATERIALS AND PROPRIETARY COMPONENTS; ODORLESS; THAT PENETRATES, HARDENS, AND DENSIFIES CONCRETE SURFACES.
C. PENETRATING LIQUID FLOOR TREATMENTS FOR POLISHED CONCRETE FINISH: CLEAR, WATERBORNE SOLUTION OF INORGANIC SILICATE OR SILICONATE MATERIALS AND PROPRIETARY COMPONENTS; ODORLESS; THAT PENETRATES, HARDENS, AND IS SUITABLE FOR POLISHED CONCRETE SURFACES.

1.4 INSTALLATION
A. DRY-SHAKE FLOOR HARDENER FINISH: AFTER INITIAL FLOATING, APPLY DRY-SHAKE FLOOR HARDENER TO SURFACES.
B. PENETRATING LIQUID FLOOR TREATMENT: PREPARE, APPLY, AND FINISH PENETRATING LIQUID FLOOR TREATMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
C. SEALING COAT: UNIFORMLY APPLY A CONTINUOUS SEALING COAT OF CURING AND SEALING COMPOUND TO HARDENED CONCRETE BY POWER SPRAY OR ROLLER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
D. PROTECT LIQUID FLOOR TREATMENT FROM DAMAGE AND WEAR DURING THE REMAINDER OF CONSTRUCTION PERIOD. USE PROTECTIVE METHODS AND MATERIALS, INCLUDING TEMPORARY COVERING, RECOMMENDED IN WRITING BY LIQUID FLOOR TREATMENTS INSTALLER.

END OF SECTION 033500

MASONRY

SECTION 042200 - CONCRETE MASONRY UNITS

1.1 SUMMARY
A. MASONRY CONSTRUCTION:
1. SINGLE-WYTHE MASONRY.

1.2 SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
B. SHOP DRAWINGS: FOR THE FOLLOWING:
1. REINFORCING STEEL: DETAIL BENDING AND PLACEMENT OF UNIT MASONRY REINFORCING BARS. COMPLY WITH ACI 315, "DETAILS AND REINFORCED WALLS.
2. FABRICATED FLASHING: DETAIL CORNER UNITS, END-DAM UNITS, AND OTHER SPECIAL APPLICATIONS.
C. SAMPLES FOR VERIFICATION: FOR EACH TYPE AND COLOR OF THE FOLLOWING:
1. EXPOSED CONCRETE MASONRY UNITS.
D. MIX DESIGNS: FOR EACH TYPE OF MORTAR AND GROUT. INCLUDE DESCRIPTION OF TYPE AND PROPORTIONS OF INGREDIENTS.
1. INCLUDE TEST REPORTS, PER ASTM C 780, FOR MORTAR MIXES REQUIRED TO COMPLY WITH PROPERTY SPECIFICATION.
2. INCLUDE TEST REPORTS, PER ASTM C 1019, FOR GROUT MIXES REQUIRED TO COMPLY WITH COMPRESSIVE STRENGTH REQUIREMENT.

1.3 MATERIALS
A. CONCRETE MASONRY UNITS (CMUS):
1. UNITS MADE WITH INTEGRAL WATER REPELLENT FOR EXPOSED UNITS AND WHERE INDICATED.
2. CONCRETE MASONRY UNITS: MEDIUM WEIGHT UNLESS INDICATED OTHERWISE.
B. MASONRY LINTELS: PREFABRICATED OR BUILT-IN-PLACE CMU LINTELS.
C. REINFORCING STEEL: UNCOATED STEEL REINFORCING BARS.
D. REINFORCING BAR POSITIONERS: WIRE UNITS DESIGNED TO FIT INTO MORTAR BED JOINTS SPANNING MASONRY UNIT CELLS AND TO HOLD REINFORCING BARS IN CENTER OF CELLS.
E. MASONRY JOINT REINFORCEMENT:
1. EXTERIOR WALLS: HOT-DIP GALVANIZED, CARBON STEEL.
F. EMBEDDED FLASHING:
1. ALL FLASHING: STAINLESS STEEL
2. SINGLE-WYTHE CMU FLASHING SYSTEM: HIGH-DENSITY POLYETHYLENE CELL FLASHING PANS AND INTERLOCKING CMU WEB COVERS.
G. MASONRY-CELL INSULATION: LOOSE-GRANULAR PERLITE.
H. MORTAR: PORTLAND CEMENT-LIME MORTAR UNLESS OTHERWISE INDICATED.

1.4 INSTALLATION
A. MATCH EXISTING MASONRY COURSING, BONDING, COLOR, AND TEXTURE.
B. BOND PATTERN: RUNNING BOND.
C. CLEAN MASONRY WASTE RECYCLED AS FILL MATERIAL.

1.5 FIELD QUALITY CONTROL
A. TESTING AGENCY: OWNER ENGAGED
B. INSPECTIONS: SPECIAL INSPECTIONS ACCORDING TO LEVEL B IN TMS 402/ACI 530/ASCE 5.

END OF SECTION 042200

METALS

SECTION 055000 - METAL FABRICATIONS

1.1 SUMMARY
A. STEEL FRAMING AND SUPPORTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT.
B. STEEL FRAMING AND SUPPORTS FOR APPLICATIONS WHERE FRAMING AND SUPPORTS ARE NOT SPECIFIED IN OTHER SECTIONS.
C. SHELF ANGLES.
D. METAL BOLLARDS.

1.2 SUBMITTALS
A. PRODUCT DATA: FOR THE FOLLOWING:
1. PAINT PRODUCTS.
2. GROUT.
3. ALL PREFABRICATED PRODUCTS.
B. SHOP DRAWINGS: SHOW FABRICATION AND INSTALLATION DETAILS FOR METAL FABRICATIONS.
1. INCLUDE PLANS, ELEVATIONS, SECTIONS, AND DETAILS OF METAL FABRICATIONS AND THEIR CONNECTIONS. SHOW ANCHORAGE AND ACCESSORY ITEMS.
2. PROVIDE TEMPLATES FOR ANCHORS AND BOLTS SPECIFIED FOR INSTALLATION UNDER OTHER SECTIONS.
C. WELDING CERTIFICATES.

1.3 PRODUCTS
A. MATERIALS: STEEL PLATES, SHAPES, AND BARS, STEEL PIPE, SLOTTED CHANNEL FRAMING.
1. LOW-EMITTING PRIMER: METAL PRIMER SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
B. MISCELLANEOUS FRAMING AND SUPPORTS:
1. STEEL FRAMING AND SUPPORTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT, APPLICATIONS WHERE FRAMING AND SUPPORTS ARE NOT SPECIFIED IN OTHER SECTIONS.
2. GALVANIZE WHERE INDICATED.
3. PRIME WITH ZINC-RICH PRIMER WHERE INDICATED.
a. ZINC-RICH PRIMER SHALL HAVE A VOC CONTENT OF 340 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
C. LOOSE STEEL LINTELS, GALVANIZED AT EXTERIOR WALLS.
D. SHELF ANGLES, GALVANIZED.
E. STEEL WELD PLATES AND ANGLES NOT SPECIFIED IN OTHER SECTIONS, FOR CASTING INTO CONCRETE.
F. METAL BOLLARDS: SCHEDULE 40 STEEL PIPE.

END OF SECTION 055000

WOODS AND PLASTICS

SECTION 061000 - ROUGH CARPENTRY

1.1 MATERIALS
A. WOOD-PRESERVATIVE-TREATED LUMBER:
1. PRESERVATIVE TREATMENT: AWPA U1; USE CATEGORY UC2, BUT USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION AND USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH THE GROUND.
a. PRESERVATIVE CHEMICALS: CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES.
2. APPLICATION: ITEMS INDICATED AND AS FOLLOWS:
a. ITEMS IN CONTACT WITH ROOFING OR WATERPROOFING.
b. ITEMS IN CONTACT WITH CONCRETE OR MASONRY.
c. FRAMING LESS THAN 18 INCHES (460 MM) ABOVE GROUND IN CRAWLSPACES.
d. FLOOR PLATES INSTALLED OVER CONCRETE SLABS-ON-GRADE.
B. DIMENSION LUMBER FRAMING:
1. EXPOSED FRAMING: HAND-SELECTED FOR APPEARANCE AND FREEDOM FROM DECAY, HONEYCOMB, KNOT-HOLES, SHAKE, SPLITS, TORN GRAIN AND WANE.
a. APPLICATION: EXPOSED EXTERIOR AND INTERIOR FRAMING INDICATED TO RECEIVE A STAINED OR NATURAL FINISH.
b. SPECIES AND GRADE: AS INDICATED FOR LOAD-BEARING CONSTRUCTION.
C. ENGINEERED WOOD PRODUCTS, GENERAL: PRODUCTS LOCATED WITHIN THE BUILDING WEATHERPROOFING SYSTEM SHALL CONTAIN NO ADDED UREA RMALDEHYDE.
D. SHEAR WALL PANELS, GENERAL: PRODUCTS LOCATED WITHIN THE BUILDING WEATHERPROOFING SYSTEM SHALL CONTAIN NO ADDED UREA FORMALDEHYDE.
E. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.
F. METAL FRAMING ANCHORS:
1. HOT-DIP GALVANIZED STEEL FOR INTERIOR LOCATIONS.
2. HOT-DIP, HEAVY-GALVANIZED STEEL FOR TREATED LUMBER AND WHERE INDICATED.
3. STAINLESS STEEL FOR EXTERIOR AND WHERE INDICATED.
G. MISCELLANEOUS MATERIALS:
1. SILL-SEALER GASKETS: [GLASS-FIBER INSULATION] [NEOPRENE FOAM].
2. ADHESIVES SHALL HAVE A VOC CONTENT OF 70 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

END OF SECTION 061000

WOODS AND PLASTICS

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

1.1 MATERIALS
A. WOOD-PRESERVATIVE-TREATED MATERIALS:
1. PRESERVATIVE TREATMENT: AWPA U1; USE CATEGORY UC2.
a. PRESERVATIVE CHEMICALS: CONTAINING NO ARSENIC OR CHROMIUM. DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES.
2. APPLICATION: ITEMS INDICATED AND THE FOLLOWING:
a. ITEMS IN CONTACT WITH ROOFING OR WATERPROOFING.
b. ITEMS IN CONTACT WITH CONCRETE OR MASONRY.
c. FRAMING LESS THAN 18 INCHES (460 MM) ABOVE GROUND IN CRAWLSPACES.
d. FLOOR PLATES INSTALLED OVER CONCRETE SLABS-ON-GRADE.
B. FIRE-RETARDANT-TREATED MATERIALS:
1. EXTERIOR TYPE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
2. INTERIOR TYPE A UNLESS OTHERWISE INDICATED.
3. APPLICATION: ITEMS INDICATED AND THE FOLLOWING:
a. FRAMING FOR RAISED PLATFORMS.
b. CONCEALED BLOCKING.
c. ROOF FRAMING AND BLOCKING.
d. ITEMS IN CONTACT WITH ROOFING.
e. PLYWOOD BACKING PANELS.
C. FRAMING:
1. NON-LOAD-BEARING INTERIOR PARTITIONS: CONSTRUCTION OR NO. 2 GRADE.
D. MISCELLANEOUS LUMBER:
1. DIMENSION LUMBER: CONSTRUCTION OR NO. 2 GRADE.
2. UTILITY SHELVING: 19 PERCENT MAXIMUM MOISTURE CONTENT.
3. CONCEALED BOARDS: 19 PERCENT MAXIMUM MOISTURE CONTENT.
E. PLYWOOD BACKING PANELS: EXPOSURE 1, C-D PLUGGED.
F. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.
G. METAL FRAMING ANCHORS:
1. METAL: GALVANIZED STEEL; HOT-DIP HEAVY GALVANIZED STEEL FOR WOOD-PRESERVATIVE-TREATED LUMBER AND WHERE INDICATED.
H. ADHESIVES: ADHESIVES SHALL HAVE A VOC CONTENT OF 70 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

1.2 INSTALLATION
A. FURRING TO RECEIVE PLYWOOD OR HARDBOARD PANELING: 1-BY-3-INCH NOMINAL-SIZE (19-BY-63-MM ACTUAL-SIZE) FURRING AT 24 INCHES (610 MM) O.C.
B. FURRING TO RECEIVE GYPSUM BOARD: 1-BY-2-INCH NOMINAL-SIZE (19-BY-38-MM ACTUAL-SIZE) FURRING AT 16 INCHES (406 MM) O.C.

END OF SECTION 061053

WOODS AND PLASTICS

SECTION 061600 - SHEATHING

1.1 MATERIALS
A. WOOD PRODUCTS, GENERAL:
1. WOOD PANEL PRODUCTS LOCATED WITHIN THE BUILDING WEATHERPROOFING SYSTEM SHALL CONTAIN NO ADDED UREA FORMALDEHYDE.
B. PRESERVATIVE-TREATED PLYWOOD:
1. PRESERVATIVE TREATMENT: AWPA U1; USE CATEGORY UC2, BUT USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION AND USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH THE GROUND.
2. PRESERVATIVE CHEMICALS: CONTAINING NO ARSENIC OR CHROMIUM.
3. APPLICATION: TREAT PLYWOOD IN CONTACT WITH MASONRY OR CONCRETE OR USED WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING.
C. FIRE-RETARDANT-TREATED PLYWOOD:
1. EXTERIOR TYPE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
2. INTERIOR TYPE A, HIGH TEMPERATURE (HT) FOR ROOF SHEATHING AND WHERE INDICATED.
3. INTERIOR TYPE A, UNLESS OTHERWISE INDICATED.
4. APPLICATION: TREAT THE FOLLOWING:
a. ROOF SHEATHING AT FIRE AND PARTY WALLS.
b. WALL SHEATHING AT FIRE AND PARTY WALLS.
c. ROOF SHEATHING.
d. SUBFLOORING AND UNDERLAYMENT FOR RAISED PLATFORMS.
D. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.
E. MISCELLANEOUS MATERIALS:
1. ADHESIVES SHALL HAVE A VOC CONTENT OF 50 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

1.2 INSTALLATION
A. WOOD STRUCTURAL PANEL:
1. COMBINATION SUBFLOOR-UNDERLAYMENT:
a. GLUE AND NAIL TO WOOD FRAMING.
b. SCREW TO COLD-FORMED METAL FRAMING.
2. SUBFLOORING:
a. GLUE AND NAIL TO WOOD FRAMING.
b. SCREW TO COLD-FORMED METAL FRAMING.
3. SHEATHING:
a. NAIL TO WOOD FRAMING.
b. SCREW TO COLD-FORMED METAL FRAMING.
4. UNDERLAYMENT:
a. NAIL TO SUBFLOORING.
B. GYPSUM SHEATHING:
1. SCREW TO WOOD FRAMING.
2. SCREW TO COLD-FORMED METAL FRAMING.
C. FIBERBOARD SHEATHING:
1. NAIL TO WOOD FRAMING.
D. PARTICLEBOARD UNDERLAYMENT:
1. GLUE AND NAIL TO SUBFLOORING.
E. HARDBOARD UNDERLAYMENT:
1. NAIL TO SUBFLOORING.

END OF SECTION 061600

THERMAL AND MOISTURE PROTECTION

SECTION 071113 - BITUMINOUS DAMPPROOFING

1.1 MATERIALS
A. COLD-APPLIED, EMULSIFIED ASPHALT: VOC OF 250 G/L OR LESS.

1.2 INSTALLATION
A. COLD-APPLIED, EMULSIFIED-ASPHALT DAMPPROOFING:
1. CONCRETE FOUNDATIONS AND PARGED MASONRY FOUNDATION WALLS: TWO BRUSH OR SPRAY COATS, ONE FIBERED BRUSH OR SPRAY COAT, OR ONE TROWEL COAT.
2. UNPARGED MASONRY FOUNDATION WALLS: PRIMER AND TWO BRUSH OR SPRAY COATS, PRIMER AND ONE FIBERED BRUSH OR SPRAY COAT, OR PRIMER AND ONE TROWEL COAT.
3. UNEXPOSED FACES OF CONCRETE RETAINING WALLS: ONE BRUSH OR SPRAY COAT.
4. UNEXPOSED FACES OF MASONRY RETAINING WALLS: PRIMER AND ONE BRUSH OR SPRAY COAT.
5. MASONRY BACKUP FOR BRICK VENEER ASSEMBLIES: PRIMER AND ONE BRUSH OR SPRAY COAT.
6. EXTERIOR FACE OF INNER WYTHE OF CAVITY WALLS: PRIMER AND ONE BRUSH OR SPRAY COAT.
7. INTERIOR FACE OF SINGLE-WYTHE EXTERIOR MASONRY WALLS: PRIMER AND ONE BRUSH OR SPRAY COAT.

END OF SECTION 071113

THERMAL AND MOISTURE PROTECTION

SECTION 071300 - WATERPROOFING

1.1 MATERIALS
A. MODIFIED BITUMINOUS SHEET: MINIMUM 60-MIL (1.5-MM) NOMINAL THICKNESS.
B. MODIFIED BITUMINOUS SHEET, FABRIC REINFORCED: MINIMUM 60-MIL (1.5-MM) NOMINAL THICKNESS.
C. EPDM RUBBER SHEET WATERPROOFING: 60 MILS (1.5 MM) THICK, UNREINFORCED.
D. BUTYL RUBBER SHEET WATERPROOFING: 60 MILS (1.5 MM) THICK, UNREINFORCED.
E. AUXILIARY MATERIALS:
1. PRIMER: WATERBORNE.
2. METAL TERMINATION BARS: ALUMINUM.
3. PROTECTION COURSE: AS RECOMMENDED BY MANUFACTURER.
F. MOLDED-SHEET DRAINAGE PANELS: MOLDED-PLASTIC DRAINAGE CORE WITH A WOVEN GEOTEXTILE FACING.
G. HIGH-CAPACITY, MOLDED-SHEET COLLECTOR-PANEL SYSTEM: MOLDED-PLASTIC DRAINAGE CORE WITH A WOVEN GEOTEXTILE FACING; BY SAME MANUFACTURER AS MOLDED-SHEET DRAINAGE PANELS.
H. INSULATION: EXTRUDED-POLYSTYRENE BOARD.
I. INSULATION DRAINAGE PANELS: EXTRUDED-POLYSTYRENE BOARD, WITH GROOVED DRAINAGE CHANNELS; FOR WALL INSTALLATION.

1.2 INSTALLATION
A. MODIFIED BITUMINOUS SHEET: ONE-PLY APPLICATION.
B. RUBBER SHEET: FULLY ADHERED, CEMENT SPLICE SEAMS.

END OF SECTION 071300

THERMAL AND MOISTURE PROTECTION

SECTION 072100 - BUILDING INSULATION

1.1 SUMMARY
A. APPLICATIONS:
1. PERIMETER INSULATION UNDER SLABS-ON-GRADE.
2. PERIMETER WALL INSULATION (SUPPORTING BACKFILL).
3. CONCEALED BUILDING INSULATION.
4. VAPOR RETARDERS.
5. SOUND ATTENUATION INSULATION.

1.2 PERFORMANCE REQUIREMENTS
A. PLENUM RATING: GLASS FIBER INSULATION RATED FOR RESISTANCE AGAINST EROSION AND MOLD GROWTH PER UL 181.

1.3 MATERIALS
A. INSULATION:
1. ALL INSULATION MATERIALS LOCATED WITHIN THE WATERPROOF MEMBRANE MUST BE CERTIFIED AS LOW EMITTING. CERTIFICATION MUST BE BASED UPON THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS, INCLUDING 2004 ADDENDA OR A JURISDICTIONALLY RECOGNIZED STANDARD USING EQUIVALENT TESTING METHODOLOGIES AND VOC THRESHOLDS.
B. VAPOR RETARDERS: REINFORCED POLYETHYLENE.

END OF SECTION 072100

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REV.	DATE	DESCRIPTION

WHITSETT
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WHITSETT, NC 27377

SPECIFICATIONS

	DATE
PERMIT	--/--/----
BID	--/--/----
CONSTRUCTION	--/--/----
RECORD	--/--/----

PROJECT MANAGER	DESIGNER
AK	DB

JOB NO.
2020379.16

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