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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
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)
INTERTAK	STEEL DOOR INSTITUTE
OPL	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
SDI	UNDERWRITERS LABORATORIES INC.
SMACNA	U.S. GREEN BUILDING COUNCIL
UL	WEST COAST LUMBER INSPECTION BUREAU
USGBC	WOODWORK INSTITUTE (FORMERLY: WIC - WOODWORK INSTITUTE OF CALIFORNIA)
WCLB	
WI	
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 (CONTINUED)

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL	
1.1 SUMMARY	
A.	SALVAGING NONHAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
B.	RECYCLING NONHAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
C.	DISPOSING OF NONHAZARDOUS 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.
1.3	PERFORMANCE REQUIREMENTS
A.	END-OF-PROJECT RATES FOR SALVAGE/RECYCLING: 75 PERCENT.
1.4 ACTION SUBMITTALS	
A.	WASTE MANAGEMENT PLAN: SUBMIT PLAN WITHIN 7 DAYS OF DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK.
1.	TYPES AND QUANTITIES OF DEMOLITION AND CONSTRUCTION WASTE.
2.	TYPE OF WASTE AND WHETHER IT WILL BE SALVAGED, RECYCLED, OR DISPOSED OF IN LANDFILL OR INCINERATOR.
3.	NET ADDITIONAL COST OR NET SAVINGS RESULTING FROM WASTE MANAGEMENT PLAN.
1.5	INFORMATION SUBMITTALS
A.	WASTE REDUCTION PROGRESS REPORTS: CONCURRENT WITH EACH APPLICATION FOR PAYMENT, SUBMIT REPORT INDICATING TYPE OF WASTE AND WHETHER IT HAS BEEN SALVAGED, RECYCLED, OR DISPOSED OF IN LANDFILL OR INCINERATOR.
B.	WASTE DISPOSAL RECORDS: INDICATE RECEIPT AND ACCEPTANCE OF WASTE MATERIAL BY ACCEPTING AND PROCESSING FACILITIES LICENSED TO ACCEPT THEM. INCLUDE MANIFESTS, TYPE OF MATERIAL, WEIGHT OR VOLUME TICKETS, RECEIPTS, AND INVOICES.
C.	LEED SUBMITTAL: CWM REPORTING TEMPLATE, TABULATING TOTAL WASTE MATERIAL, QUANTITIES DIVERTED AND MEANS BY WHICH IT IS DIVERTED, AND STATEMENT THAT REQUIREMENTS FOR THE CREDIT HAVE BEEN MET.
1.6	RECYCLING WASTE
A.	RECYCLING INCENTIVES: REVENUES AND OTHER INCENTIVES FOR RECYCLING WILL ACCRUE TO OWNER.
END OF SECTION 017419	

SECTION 019113 - GENERAL COMMISSIONING REQUIREMENTS

1.1 SUMMARY	
A.	COMMISSIONING TEAM:
1.	MEMBERS REPRESENTING CONTRACTOR, INCLUDING PROJECT SUPERINTENDENT AND SUBCONTRACTORS, INSTALLERS, SUPPLIERS, AND SPECIALISTS.
2.	MEMBERS REPRESENTING OWNER, INCLUDING COMMISSIONING AGENT (CXA), FACILITY USER AND OPERATION AND MAINTENANCE PERSONNEL, AND ARCHITECT AND ENGINEERING DESIGN PROFESSIONALS.
B.	CONTRACTOR'S RESPONSIBILITIES: CONTRACTOR SHALL ASSIGN REPRESENTATIVES WITH EXPERTISE AND AUTHORITY TO ACT ON ITS BEHALF AND SHALL SCHEDULE THEM TO PARTICIPATE IN AND PERFORM COMMISSIONING PROCESS ACTIVITIES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
1.	INTEGRATE AND COORDINATE COMMISSIONING PROCESS ACTIVITIES WITH CONSTRUCTION SCHEDULE.
2.	REVIEW AND ACCEPT COMMISSIONING CHECKLISTS AND PROCESS TEST PROCEDURES PROVIDED BY THE COMMISSIONING AGENT (CXA).
3.	SUPPORT COMMISSIONING INSTALLATION REVIEW AND PROCESS TEST PROCEDURES.
4.	EVALUATE INSTALLATION AND PERFORMANCE DEFICIENCIES IDENTIFIED IN REPORTS AND, IN COLLABORATION WITH ENTITY RESPONSIBLE FOR SYSTEM AND EQUIPMENT INSTALLATION, RECOMMEND CORRECTIVE ACTION.
5.	COOPERATE WITH THE COMMISSIONING TEAM FOR RESOLUTION OF ISSUES RECORDED IN THE ISSUES LOG.
C.	COMMISSIONING AGENT'S (CXA'S) RESPONSIBILITIES:
1.	ORGANIZE AND LEAD COMMISSIONING TEAM.
2.	PROVIDE AND MANAGE COMMISSIONING PLAN.
3.	PROVIDE PROJECT-SPECIFIC CHECKLISTS AND TEST PROCEDURES.
4.	WITNESS, PREPARE AND MAINTAIN COMPLETED INSTALLATION VERIFICATION CHECKLISTS.
5.	WITNESS SYSTEMS, ASSEMBLIES, EQUIPMENT, AND COMPONENT STARTUP.
6.	WITNESS, PREPARE, AND MAINTAIN COMPLETED FUNCTIONAL TESTING CHECKLISTS.
7.	PREPARE AND MAINTAIN THE ISSUES LOG.
8.	COMPILE COMMISSIONING DOCUMENTS, RESULTS, AND DEFICIENCIES; INCLUDE THEM IN THE SYSTEMS MANUAL AND COMMISSIONING SUMMARY REPORT.
9.	REVIEW COMMISSIONING REPORT WITH COMMISSIONING TEAM AND IMPLEMENT PLAN TO RESOLVE DEFICIENCIES.
END OF SECTION 019113	

CONCRETE

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY	
1.1 MATERIALS	
A.	WOOD PRODUCTS, GENERAL:
1.	MAXIMUM MOISTURE CONTENT OF LUMBER: [15 PERCENT] [19 PERCENT].
B.	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.
C.	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.
D.	FRAMING:
1.	NON-LOAD-BEARING INTERIOR PARTITIONS: CONSTRUCTION OR NO. 2 GRADE.
E.	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.
F.	PLYWOOD BACKING PANELS: EXPOSURE 1, C-D PLUGGED [FIRE-RETARDANT TREATED].
G.	FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.
H.	METAL FRAMING ANCHORS:
1.	METAL: GALVANIZED STEEL; HOT-DIP HEAVY GALVANIZED STEEL FOR WOOD-PRESERVATIVE-TREATED LUMBER AND WHERE INDICATED.
I.	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)] [600 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)] [400 MM] O.C.
END OF SECTION 061053	

SECTION 064000 - INTERIOR ARCHITECTURAL WOODWORK

1.1 SUMMARY	
A.	INTERIOR STANDING AND RUNNING TRIM.
B.	FLUSH WOOD PANELING AND WAINSCOTS.
C.	MELAMINE CABINETS.
D.	SOLID-SURFACING-MATERIAL COUNTERTOPS.
E.	CLOSET AND UTILITY SHELVING.
1.2 QUALITY ASSURANCE	
A.	QUALITY STANDARD: AWI.
1.3 MATERIALS	
A.	WOOD PRODUCTS: COMPLY WITH THE FOLLOWING:
1.	HARDBOARD: AHA A135.4, MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
2.	MEDIUM-DENSITY FIBERBOARD: ANSI A208.2, GRADE 130, MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
3.	MOISTURE RESISTANT MEDIUM-DENSITY FIBERBOARD: ANSI A208.2, GRADE MD, MR50, MADE WITH BINDER CONTAINING NO UREA FORMALDEHYDE.
4.	STRAW-BASED PARTICLEBOARD: ANSI A208.1, GRADE M-2, EXCEPT FOR DENSITY, MADE WITH ADHESIVE CONTAINING NO UREA FORMALDEHYDE.
5.	SOFTWOOD PLYWOOD: DOC PS 1
6.	VENEER-FACED PANEL PRODUCTS (HARDWOOD PLYWOOD): HPVA HP-1, MADE WITH ADHESIVE CONTAINING NO UREA FORMALDEHYDE.
B.	ADHESIVES, GENERAL: DO NOT USE ADHESIVES THAT CONTAIN UREA FORMALDEHYDE.
C.	VOC LIMITS FOR INSTALLATION ADHESIVES AND GLUES: USE INSTALLATION ADHESIVES THAT COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24):
1.	WOOD GLUES: 30 G/L
2.	PANEL ADHESIVE: 50 G/L
3.	MULTIPURPOSE CONSTRUCTION ADHESIVE: 70 G/L
4.	CONTACT ADHESIVE: 80 G/L
a.	SPECIAL PURPOSE: 250 G/L
D.	CLOSET AND UTILITY SHELVING:
1.	GRADE: ECONOMY.
2.	SHELF MATERIAL: 3/4 INCH (19 MM) THERMOSET DECORATIVE PANEL WITH PVC OR POLYESTER EDGE BANDING.
3.	CLEATS: 3/4 INCH (19 MM) PANEL PRODUCT.
E.	SHOP FINISHING:
1.	GRADE: SAME GRADE AS WOODWORK.
2.	EXTENT: ALL WOODWORK SHOP FINISHED.
1.4 INSTALLATION	
A.	SCRIBE AND CUT MILLWORK TO FIT ADJOINING WORK, REFINISH CUT SURFACES, AND REPAIR DAMAGED FINISH AT CUTS.
B.	ANCHOR MILLWORK TO ANCHORS OR BLOCKING BUILT IN OR DIRECTLY ATTACHED TO SUBSTRATES. SECURE WITH COUNTERSUNK, CONCEALED FASTENERS AND BLIND NAILING AS REQUIRED FOR COMPLETE INSTALLATION. USE FINE FINISHING NAILS OR FINISHING SCREWS FOR EXPOSED FASTENING, COUNTERSUNK AND FILLED FLUSH WITH MILLWORK AND MATCHING FINAL FINISH IF TRANSPARENT FINISH IS INDICATED.
C.	CABINETS: INSTALL WITHOUT DISTORTION SO DOORS AND DRAWERS FIT OPENINGS PROPERLY AND ARE ACCURATELY ALIGNED. ADJUST HARDWARE TO CENTER DOORS AND DRAWERS IN OPENINGS AND TO PROVIDE UNENCUMBERED OPERATION. COMPLETE INSTALLATION OF HARDWARE AND ACCESSORY ITEMS AS INDICATED.
1.	INSTALL CABINETS WITH NO MORE THAN 1/8 INCH IN 96 INCH (3 MM IN 2400 MM) SAG, BOW, OR OTHER VARIATION FROM A STRAIGHT LINE.
D.	COUNTERTOPS: ANCHOR SECURELY BY SCREWING THROUGH CORNER BLOCKS OF BASE CABINETS OR OTHER SUPPORTS INTO UNDERSIDE OF COUNTERTOP.
1.	ALIGN ADJACENT SOLID-SURFACING-MATERIAL COUNTERTOPS AND FORM SEAMS TO COMPLY WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS USING ADHESIVE IN COLOR TO MATCH COUNTERTOP. CAREFULLY DRESS JOINTS SMOOTH, REMOVE SURFACE SCRATCHES, AND CLEAN ENTIRE SURFACE.
2.	INSTALL COUNTERTOPS WITH NO MORE THAN 1/8 INCH IN 96 INCH (3 MM IN 2400 MM) SAG, BOW, OR OTHER VARIATION FROM A STRAIGHT LINE.
3.	SECURE COVED BACKSPLASHES TO TOPS PER MANUFACTURES FABRICATION MANUAL AND TO WALLS WITH ADHESIVE.
4.	CALK SPACE BETWEEN BACKSPLASH AND WALL WITH SEALANT SPECIFIED IN DIVISION 7 SECTION "JOINT SEALANTS."
END OF SECTION 064000	

CONCRETE (CONTINUED)

SECTION 064400 - PLASTIC PANELING	
PART 1 - GENERAL	
1.1 SUMMARY	
A.	SECTION INCLUDES THE FOLLOWING:
1.	GLASS-FIBER REINFORCED PLASTIC (FRP) WALL PANELING.
2.	MOLDING, ADHESIVES, AND JOINT SEALANTS.
1.2 PLASTIC SHEET PANELING	
A.	GLASS-FIBER-REINFORCED PLASTIC PANELING: GELCOAT-FINISHED, GLASS-FIBER REINFORCED PLASTIC PANELS COMPLYING WITH ASTM D 5319.
1.	LOW-EMITTING MATERIALS: PANELING SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES' "STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS." NOMINAL THICKNESS: NOT LESS THAN 0.09 INCHES.
2.	COLOR: WHITE.
3.	COLOR: WHITE.
4.	COLOR: WHITE.
5.	SURFACE FINISH: MOLDED PEBBLE TEXTURE.
B.	UNREINFORCED POLYPROPYLENE PANELING: SOLID POLYPROPYLENE PANELS MADE FROM NO LESS THAN 80 PERCENT RECYCLED MATERIAL.
1.	LOW-EMITTING MATERIALS: PANELING SHALL COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES' "STANDARD PRACTICE FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS." NOMINAL THICKNESS: NOT LESS THAN 0.09 INCHES.
2.	NOMINAL THICKNESS: NOT LESS THAN 0.09 INCHES.
3.	COLOR: WHITE.
4.	MOLDING COLOR: WHITE.
5.	SURFACE FINISH: MOLDED PEBBLE TEXTURE.
1.3 ADHESIVES	
A.	AS RECOMMENDED BY PLASTIC PANELING MANUFACTURER.
1.4 ACCESSORIES	
A.	TRIM ACCESSORIES: MANUFACTURER'S STANDARD ONE-PIECE VINYL EXTRUSIONS DESIGNED TO RETAIN AND COVER EDGES OF PANELS. PROVIDE DIVISION BARS, INSIDE CORNERS, OUTSIDE CORNERS, AND CAPS AS NEEDED TO CONCEAL EDGES.
1.	COLOR: WHITE.
END OF SECTION 064400	

THERMAL AND MOISTURE PROTECTION

SECTION 07841 - THROUGH-PENETRATION FIRESTOP SYSTEMS	
1.1 SUBMITTALS	
A.	PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
1.2 QUALITY ASSURANCE	
A.	INSTALLER QUALIFICATIONS: AN FM GLOBAL-APPROVED FIRESTOP CONTRACTOR OR A UL-QUALIFIED FIRESTOP CONTRACTOR.
B.	FIRE-TEST-RESPONSE CHARACTERISTICS: TESTED PER ASTM E 814 BY QUALIFIED TESTING AND INSPECTING AGENCY.
1.3 PENETRATION FIRESTOPPING	
A.	PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS: F-RATINGS PER ASTM E 814 OR UL 1479.
B.	PENETRATIONS IN HORIZONTAL ASSEMBLIES: F- AND T-RATINGS PER ASTM E 814 OR UL 1479.
C.	PENETRATIONS IN SMOKE BARRIERS: L-RATINGS PER UL 1479.
D.	W-RATINGS: PER UL 1479.
E.	VOC CONTENT OF INTERIOR SEALANTS: PROVIDE INTERIOR SEALANTS AND SEALANT PRIMERS THAT COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24):
1.	SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L.
2.	SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L.
3.	SEALANT PRIMERS FOR POROUS SUBSTRATES: 775 G/L.
1.4 INSTALLATION	
A.	IDENTIFICATION: PREPRINTED METAL OR PLASTIC LABELS, PERMANENTLY ATTACHED.
1.5 FIELD QUALITY CONTROL	
A.	INSPECTION OF INSTALLED FIRESTOP SYSTEMS: BY OWNER-ENGAGED AGENCY ACCORDING TO ASTM E 2174 REQUIREMENTS.
END OF SECTION 07841	

SECTION 078446 - FIRE-RESISTIVE JOINT SYSTEMS

1.1 SUMMARY	
A.	FIRE-RESISTIVE JOINT SYSTEMS FOR THE FOLLOWING:
1.	JOINTS IN OR BETWEEN FIRE-RESISTANCE-RATED CONSTRUCTIONS.
2.	JOINTS AT EXTERIOR CURTAIN-WALL/FLOOR INTERSECTIONS.
3.	JOINTS IN SMOKE BARRIERS.
1.2 PERFORMANCE REQUIREMENTS	
A.	FIRE-RESISTANCE RATINGS OF JOINT SYSTEMS IN AND BETWEEN FIRE-RESISTANCE-RATED CONSTRUCTIONS: EQUALING OR EXCEEDING THE FIRE-RESISTANCE RATINGS OF CONSTRUCTION THAT THEY JOIN, [AND WITH MOVEMENT CAPABILITIES INDICATED] AS DETERMINED BY UL 2079.
1.3 SUBMITTALS	
A.	PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
1.4 QUALITY ASSURANCE	
A.	FIRE-TEST-RESPONSE CHARACTERISTICS: TESTED BY QUALIFIED TESTING AND INSPECTING AGENCY.
1.5 FIRE-RESISTIVE JOINT SYSTEMS	
A.	DESIGNATION SYSTEM FOR JOINTS IN OR BETWEEN FIRE-RESISTANCE-RATED CONSTRUCTIONS: ALPHANUMERIC SYSTEMS LISTED IN UL'S "FIRE RESISTANCE DIRECTORY" UNDER PRODUCT CATEGORY XHBN.
B.	JOINTS IN OR BETWEEN FIRE-RESISTANCE-RATED CONSTRUCTION: EQUAL TO OR EXCEEDING THE FIRE-RESISTANCE RATING OF CONSTRUCTION THEY WILL JOIN.
C.	JOINTS AT EXTERIOR CURTAIN-WALL/FLOOR INTERSECTIONS: EQUAL TO OR EXCEEDING THE FIRE-RESISTANCE RATING OF THE FLOOR ASSEMBLY.
D.	JOINTS IN SMOKE BARRIERS:
1.	L-RATING: NOT EXCEEDING 5.0 CFM/FT ² (0.00775 CU. M/S X M) OF JOINT AT 0.30 INCH WG (74.7 PA) AT BOTH AMBIENT AND ELEVATED TEMPERATURES.
E.	EXPOSED FIRE-RESISTIVE JOINT SYSTEMS: PROVIDE PRODUCTS WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF LESS THAN 25 AND 450, RESPECTIVELY, AS DETERMINED PER ASTM E 84.
F.	VOC CONTENT: FIRE-RESISTIVE JOINT SYSTEM SEALANTS SHALL COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENT WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24):
1.	ARCHITECTURAL SEALANTS: 250 G/L.
2.	SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L.
G.	SEALANT PRIMERS FOR POROUS SUBSTRATES: 775 G/L.
H.	ACCESSORIES: FORMING MATERIALS AND OTHER COMPONENTS NEEDED TO INSTALL FILL MATERIALS AND MAINTAIN RATINGS REQUIRED.
END OF SECTION 078446	



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Architect of Record

NORR

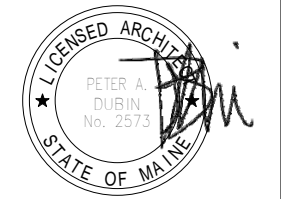
ARCHITECTS PLANNERS

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ENGINEER OF RECORD

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Engineering Consultant



Revision Schedule			
Rev	Date	By	Description

Project Name:
Exchange Street

Project Address:
**176 Middle Street
Portland, ME 04101**

Store #:	7408
Project #:	03196-029
Concept:	NCS
Palette:	HERITAGE
Issue Date:	03.25.2013
Design Manager:	ERICA ZAKAMAREK
LEED® AP:	
Production Designer:	NORR
Checked by:	NORR

Sheet Title:

**DESIGN
SPECIFICATIONS**

Scale: 1/4" = 1'-0"

Sheet Number:
G-010