

SECTION 078200 - SHEET METAL FLASHING AND TRIM
 1.1 PERFORMANCE REQUIREMENTS
 A. SHEET METAL STANDARD FOR FLASHING AND TRIM: NRCA'S "THE NRCA ROOFING MANUAL" AND SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL".
 1.2 MATERIALS
 A. SHEET METALS:
 1. ALUMINUM SHEET: TWO-COAT FLUOROPOLYMER.
 B. UNDERLAYMENT: FELTS OR SYNTHETIC UNDERLAYMENT.
 1.3 PRODUCTS
 A. MANUFACTURED THROUGH-WALL FLASHING.
 B. FORMED LOW-SLOPE ROOF FABRICATIONS: INCLUDING COPINGS, BASE FLASHING, COUNTERFLASHING, FLASHING RECEIVERS, AND ROOF-PENETRATION FLASHING.
 C. FORMED WALL FABRICATIONS: INCLUDING THROUGH-WALL FLASHING AND OPENING FLASHINGS IN FRAME CONSTRUCTION.
 D. MISCELLANEOUS FORMED FABRICATIONS: INCLUDING EQUIPMENT SUPPORT FLASHING.

SECTION 077100 - ROOF SPECIALTIES
 1.1 QUALITY ASSURANCE
 A. MOCKUPS OF TYPICAL ROOF EDGE.
 1.2 WARRANTY
 A. ROOFING-SYSTEM WARRANTY: ROOF SPECIALTIES INCLUDED IN WARRANTY PROVISIONS OF ROOFING SECTION.
 B. SPECIAL WARRANTY ON PAINTED FINISHES: 10 YEARS.
 1.3 PRODUCTS
 A. COPINGS: FORMED ALUMINUM.
 B. ROOF-EDGE DRAINAGE SYSTEMS:
 1. GUTTERS: FORMED ALUMINUM.
 2. DOWNSPOUTS: FORMED ALUMINUM.
 3. CONDUCTOR HEADS: FORMED ALUMINUM.
 C. FINISHES:
 ALUMINUM: TWO-COAT FLUOROPOLYMER.

SECTION 077200 - ROOF ACCESSORIES
 1.1 PRODUCTS
 A. ROOF CURBS: INSULATED.
 1. HEIGHT: MINIMUM 12 INCHES.
 2. MATERIAL: ALUMINUM.
 3. FINISH: MILL-FINISH ALUMINUM.
 B. ROOF HATCHES: INSULATED WITH SINGLE-WALLED CURBS.
 1. HEIGHT: MINIMUM 12 INCHES.
 2. HATCH LID: OPAQUE, SINGLE LEAF.
 3. MATERIAL: ALUMINUM.
 4. FINISH: MILL-FINISH ALUMINUM.
 5. ACCESSORIES: SAFETY RAILING SYSTEM.
 C. DUCT SUPPORTS: EXTRUDED ALUMINUM, URETHANE INSULATED.
 D. PIPE PORTALS: FLASHING TYPE, FORMED ALUMINUM WITH EPDM CAPS.
 E. PREFORMED FLASHING SLEEVES: EXHAUST VENT FLASHING AND VENT STACK FLASHING FABRICATED FROM ALUMINUM SHEET.

SECTION 078413 - PENETRATION FIRESTOPPING
 1.1 QUALITY ASSURANCE
 A. INSTALLER QUALIFICATIONS: FM GLOBAL APPROVED OR UL QUALIFIED.
 1.2 PENETRATION FIRESTOPPING
 A. PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS: F-RATINGS PER ASTM E 814 OR UL 1479.
 B. PENETRATIONS IN HORIZONTAL ASSEMBLIES: F-, T-, AND W-RATINGS PER ASTM E 814 OR UL 1479.
 1.3 INSTALLATION
 A. IDENTIFICATION: WALLS AND PENETRATIONS.

SECTION 078443 - JOINT FIRESTOPPING
 1.1 QUALITY ASSURANCE
 A. INSTALLER QUALIFICATIONS: FM GLOBAL APPROVED OR UL QUALIFIED.
 1.2 FIRE-RESISTIVE JOINT SYSTEMS
 A. JOINTS IN OR BETWEEN FIRE-RESISTANCE-RATED CONSTRUCTION: ASTM E 1966 OR UL 2079.
 B. JOINTS AT EXTERIOR CURTAIN-WALL/FLOOR INTERSECTIONS: ASTM E 119 OR ASTM E 2307.

SECTION 079200 - JOINT SEALANTS
 1.1 WARRANTY
 A. INSTALLER WARRANTY: TWO YEARS.
 1.2 JOINT SEALANTS
 A. VOC CONTENT OF INTERIOR SEALANTS:
 1. ARCHITECTURAL SEALANTS: 250 G/L.
 2. SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L.
 B. NONSTAINING SILICONE JOINT SEALANTS.
 C. URETHANE JOINT SEALANTS.
 D. MILDEW-RESISTANT JOINT SEALANTS.
 E. BUTYL JOINT SEALANTS.
 F. LATEX JOINT SEALANTS.
 G. JOINT-SEALANT BACKING.

DIVISION 08 - OPENINGS
 SECTION 081113 - HOLLOW METAL DOORS AND FRAMES
 1.1 EXTERIOR DOORS AND FRAMES
 A. SDI HEAVY DUTY: SDI A250.8, LEVEL 2. METALLIC-COATED, COLD-ROLLED STEEL SHEET.
 1. EDGE CONSTRUCTION: MODEL 1, FULL FLUSH.
 2. CORE: MANUFACTURER'S STANDARD INSULATED CORE.
 3. FRAMES FULL PROFILE WELDED.
 4. EXPOSED FINISH: FACTORY.
 B. ACCESSORIES:
 1. MULLIONS AND TRANSOM BARS.
 1.2 INSTALLATION
 A. WOOD STUD PARTITIONS: FRAMES FILLED WITH INSULATION.

SECTION 081213 - HOLLOW METAL FRAMES
 1.1 INTERIOR FRAMES
 A. SDI STANDARD DUTY: ANSI/SDI A250.8, LEVEL 1. UNCOATED, STEEL SHEET.
 1. CONSTRUCTION: FULL PROFILE WELDED.
 2. EXPOSED FINISH: PRIME.
 SECTION 081416 - FLUSH WOOD DOORS
 1.1 QUALITY ASSURANCE
 A. MANUFACTURER AND VENDOR: FSC CERTIFIED FOR CHAIN OF CUSTODY.
 1.2 DOOR CONSTRUCTION, GENERAL
 A. QUALITY STANDARD: ARCHITECTURAL WOODWORK STANDARDS.
 1. CLEAR FINISH MAPLE
 B. WDMA I.S.1-A PERFORMANCE GRADE:
 1. HEAVY DUTY UNLESS OTHERWISE INDICATED.
 1.3 LIGHT FRAMES AND LOUVERS
 A. LIGHT-OPENING FRAMES:
 1. METAL FOR FIRE DOORS.
 1.5 PRIMING/FINISHING
 A. FACTORY FINISHING: ALL DOORS.

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
 1.1 WARRANTY
 A. MATERIALS AND WORKMANSHIP: 10 YEARS.
 B. FINISH: 10 YEARS.
 1.2 SYSTEM COMPONENTS
 A. FRAMING MEMBERS:
 1. CONSTRUCTION: THERMALLY BROKEN.
 B. GLAZING: SECTION 088000 "GLAZING."
 C. ENTRANCE DOORS:
 1. DOOR CONSTRUCTION: 1-3/4-INCH OVERALL THICKNESS.
 2. DOOR DESIGN: MEDIUM STYLE.
 3. GLAZING STOPS AND GASKETS.
 D. ENTRANCE DOOR HARDWARE: AS SCHEDULED.
 1.3 ALUMINUM FINISHES
 A. ALUMINUM FINISHES: CLASS I, PVDF RESIN.

SECTION 085313 - VINYL WINDOWS
 1.1 WARRANTY
 A. WINDOWS: 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
 1.2 WINDOW PERFORMANCE REQUIREMENTS
 A. PRODUCT STANDARD: AAMA/WDMA/CSA 101/I.S.2/A440.
 1. MINIMUM PERFORMANCE CLASS: CW.
 2. MINIMUM PERFORMANCE GRADE: 30.
 B. THERMAL TRANSMITTANCE: 0.35 BTU/SQ. FT. X H X DEG F MAXIMUM.
 C. SOLAR HEAT-GAIN COEFFICIENT: 0.40 MAXIMUM.
 D. SOUND TRANSMISSION CLASS: 26 MINIMUM.
 E. OUTSIDE-INSIDE TRANSMISSION CLASS: 22 MINIMUM.
 F. WINDBORNE-DEBRIS RESISTANCE: PASSING ASTM E 1886 AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
 1.3 VINYL WINDOWS
 A. BASIS OF DESIGN MANUFACTURER: KOHLTECH WINDOWS; 15311 128 AVE NW #1, EDMONTON, AB T5V 1A5, CANADA; 1-780-468-5722; WWW.KOHLTECH.COM.
 B. FINISH: MATCH FINISH OF ALUMINUM STOREFRONT AND ENTRY SYSTEM.
 C. GLASS: CLEAR, INSULATING, ARGON FILLED, WITH LOW-E COATING.
 D. INSECT SCREENS: AT EACH OPERABLE EXTERIOR SASH, WITH ALUMINUM FRAMES AND WITHOUT WICKETS.

SECTION 088000 - GLAZING
 1.1 SUMMARY
 A. GLASS FOR WINDOWS, DOORS, AND STOREFRONT FRAMING.
 1.2 WARRANTY
 A. LAMINATED GLASS: 10 YEARS.
 B. INSULATING GLASS: 10 YEARS.
 1.3 MATERIALS
 A. SILICONE GLAZING SEALANTS: NEUTRAL CURING, CLASS 100/50.
 1. SEALANTS: LOW VOC.
 B. GLAZING TAPES: EXPANDED-CELLULAR TYPE.

1.4 LAMINATED GLASS SCHEDULE
 A. GLASS TYPE: CLEAR LAMINATED GLASS; FULLY TEMPERED FLOAT GLASS.
 B. GLASS TYPE: LOW-E-COATED, LAMINATED VISION GLASS; CLEAR FULLY TEMPERED FLOAT GLASS.
 1.5 INSULATING-LAMINATED-GLASS TYPES
 A. GLASS TYPE: LOW-E-COATED, CLEAR INSULATING LAMINATED GLASS.
 1. OUTDOOR LITE: FULLY TEMPERED FLOAT GLASS.
 2. INDOOR LITE: CLEAR LAMINATED GLASS WITH TWO PLIES OF FULLY TEMPERED FLOAT GLASS.

SECTION 088813 - FIRE-RESISTANT GLAZING
 1.1 WARRANTY
 A. LAMINATED GLASS: NOT LESS THAN 10 YEARS.
 1.2 MATERIALS
 A. SILICONE GLAZING SEALANTS: NEUTRAL CURING, CLASS 50.
 1. SEALANTS: LOW VOC.
 B. GLAZING TAPES: EXPANDED-CELLULAR TYPE.
 1.3 FIRE-PROTECTION-RATED GLAZING SCHEDULE
 A. GLASS TYPE: 20-MINUTE FIRE-PROTECTION-RATED GLAZING WITH HOSE-STREAM TEST; LAMINATED CERAMIC GLAZING, LAMINATED GLASS WITH INTUMESCENT INTERLAYERS, OR DOUBLE GLAZING UNITS WITH CLEAR GEL FILL.
 B. GLASS TYPE: 45-MINUTE FIRE-PROTECTION-RATED GLAZING; LAMINATED CERAMIC GLAZING, LAMINATED GLASS WITH INTUMESCENT INTERLAYERS, OR DOUBLE GLAZING UNITS WITH CLEAR GEL FILL.
 C. GLASS TYPE: 60-MINUTE FIRE-PROTECTION-RATED GLAZING WITH 450 DEG F TEMPERATURE-RISE LIMITATION; LAMINATED GLASS WITH INTUMESCENT INTERLAYERS OR DOUBLE GLAZING UNITS WITH CLEAR GEL FILL.

DIVISION 09 - FINISHES
 SECTION 092900 - GYPSUM BOARD
 1.1 MATERIALS
 A. INTERIOR GYPSUM BOARD:
 1. GYPSUM WALLBOARD.
 2. GYPSUM BOARD, TYPE X.
 3. GYPSUM CEILING BOARD.
 4. IMPACT-RESISTANT GYPSUM BOARD.
 5. MOLD-RESISTANT GYPSUM BOARD.
 B. TRIM ACCESSORIES:
 1. INTERIOR.

SECTION 095123 - ACOUSTICAL TILE CEILINGS
 1.1 SUMMARY
 A. ACOUSTICAL TILES AND SUSPENSION SYSTEMS.
 1.2 PRODUCTS
 A. ACOUSTICAL CEILING TILES: ASTM E 1264.
 1. TYPE, FORM, AND PATTERN: SQUARE LAY-IN REGULAR TILE.
 2. THICKNESS: 5/8 INCH.
 3. MODULAR SIZE: 24 BY 24 INCHES.
 B. METAL SUSPENSION SYSTEMS: ASTM C 635.
 1. WIRE HANGERS, BRACES, AND TIES.
 1.3 INSTALLATION
 A. INSTALLATION: ASTM C 636.

SECTION 096513 - RESILIENT BASE AND ACCESSORIES
 1.1 PRODUCTS
 A. RESILIENT BASE: THERMOSET RUBBER.
 1. STYLE AND LOCATION:
 a. STRAIGHT: IN AREAS WITH CARPET.
 b. COVE: IN AREAS WITH RESILIENT FLOORING.
 2. MINIMUM THICKNESS: 0.125 INCH.
 3. HEIGHT: 4 INCHES.
 4. OUTSIDE CORNERS: JOB FORMED OR PREFORMED.
 5. INSIDE CORNERS: JOB FORMED OR PREFORMED.
 B. RESILIENT STAIR ACCESSORIES:
 1. STAIR TREADS: RUBBER, VULCANIZED THERMOSET.
 a. SURFACE: PATTERN; EMBOSSED, GROOVED, OR RIBBED.
 b. FEATURES: EMBEDDED ABRASIVE STRIPS.
 c. NOSING STYLE: SQUARE, ADJUSTABLE TO COVER ANGLES BETWEEN 60 AND 90 DEGREES.
 d. NOSING HEIGHT: 1-1/2 INCHES.
 2. RISERS: INTEGRAL.
 3. STRINGERS.
 4. LANDING TILE.
 C. RESILIENT ACCESSORIES: RUBBER.
 1. STAIR-TREAD NOSING.
 2. TRANSITION STRIPS.
 D. INSTALLATION MATERIALS:
 1. TROWELABLE LEVELING AND PATCHING COMPOUNDS.
 2. ADHESIVES: LOW VOC.
 3. STAIR-TREAD-NOSE FILLER.
 4. FLOOR POLISH.

SECTION 096519 - RESILIENT TILE FLOORING
 1.1 PRODUCTS

A. VINYL COMPOSITION FLOOR TILE: THROUGH-PATTERN TILE.
 1. WEARING SURFACE: SMOOTH.
 2. THICKNESS: 0.125 INCH.
 3. SIZE: 12 BY 12 INCHES.
 B. INSTALLATION MATERIALS:
 1. TROWELABLE LEVELING AND PATCHING COMPOUNDS.
 2. FLOOR POLISH.

SECTION 096816 - SHEET CARPETING
 1.1 WARRANTY
 A. MATERIALS AND WORKMANSHIP FOR CARPET FAILURE: 10 YEARS.
 B. MATERIALS AND WORKMANSHIP FOR CARPET CUSHION FAILURE: 10 YEARS.
 1.2 PRODUCTS
 A. WOVEN CARPET:
 1. FIBER CONTENT: PREMIUM NYLON.
 2. PILE CHARACTERISTIC: LEVEL-LOOP PILE.
 3. PILE THICKNESS: 0.187 INCHES.
 4. PILE WEIGHT: 38.0 OZ./SQ. YD..
 5. APPLIED TREATMENTS: SOIL-RESISTANCE TREATMENT.
 B. CARPET CUSHION:
 1. TRAFFIC CLASSIFICATION: HEAVY TRAFFIC.
 2. MATERIAL: FIBER.
 3. THICKNESS: .375 INCHES.
 1.3 EXECUTION
 A. INSTALLATION: STRETCH IN.

SECTION 099113 - EXTERIOR PAINTING
 1.1 PAINT, GENERAL
 A. MPI-LISTED PRODUCTS.
 1.2 EXTERIOR PAINTING SCHEDULE
 A. CEMENT BOARD SUBSTRATES:
 1. LATEX SYSTEM.
 B. STEEL AND IRON SUBSTRATES:
 1. WATER-BASED LIGHT INDUSTRIAL COATING SYSTEM.
 C. GALVANIZED-METAL SUBSTRATES:
 1. LATEX SYSTEM.
 D. ALUMINUM SUBSTRATES:
 1. LATEX SYSTEM.
 E. STAINLESS-STEEL SUBSTRATES:
 1. LATEX SYSTEM.

SECTION 099123 - INTERIOR PAINTING
 1.1 PAINT, GENERAL
 A. MPI-LISTED PRODUCTS.
 1.2 INTERIOR PAINTING SCHEDULE
 A. STEEL SUBSTRATES:
 1. LATEX SYSTEM, ALKYD PRIMER.
 B. GYPSUM BOARD SUBSTRATES:
 1. LATEX OVER LATEX SEALER SYSTEM.

DIVISION 10 - SPECIALTIES
 SECTION 101423 - PANEL SIGNAGE
 1.1 SIGNS
 A. ROOM-IDENTIFICATION SIGN:
 1. LAMINATED-SHEET SIGN: PHOTOPOLYMER SHEET WITH RAISED GRAPHICS.
 2. MOUNTING: SURFACE MOUNTED WITH CONCEALED ANCHORS, ADHESIVE, OR TWO-FACE TAPE.
 3. TEXT AND TYPEFACE: ACCESSIBLE RAISED CHARACTERS AND BRAILLE.
 1.2 MATERIALS AND ACCESSORIES
 A. ADHESIVES: VOC CONTENT OF 70 G/L OR LESS.

SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES
 1.1 PRODUCTS
 A. PUBLIC-USE WASHROOM ACCESSORIES:
 1. TOILET TISSUE (ROLL) DISPENSER.
 2. LIQUID-SOAP DISPENSER.
 3. GRAB BAR.
 4. MIRROR UNIT.
 B. WARM-AIR DRYERS:
 1. WARM-AIR DRYER.

SECTION 104416 - FIRE EXTINGUISHERS
 1.1 WARRANTY
 A. MATERIALS AND WORKMANSHIP: SIX YEARS.
 1.2 PERFORMANCE REQUIREMENTS
 A. FIRE EXTINGUISHERS: COMPLYING WITH NFPA.
 1.3 PRODUCTS
 A. PORTABLE HAND-CARRIED FIRE EXTINGUISHERS:
 1. REGULAR DRY-CHEMICAL TYPE.
 B. MOUNTING BRACKETS.

DIVISION 12 - FURNISHINGS
 SECTION 123530 - RESIDENTIAL CASEWORK

1.1 CABINETS
 A. QUALITY STANDARD: KCMA A161.1.
 B. FSC-CERTIFIED WOOD.
 C. FACE STYLE: FLUSH OVERLAY.
 D. CABINET STYLE: FACE FRAME.
 E. DOOR AND DRAWER FRONTS: SOLID-WOOD STILES AND RAILS WITH WOOD PANELS.
 F. FACE FRAMES: SOLID WOOD.
 G. EXPOSED CABINET END FINISH: WOOD VENEER.
 H. CABINET INTERIORS: WOOD.
 1.2 MATERIALS
 A. COMPOSITE WOOD PRODUCTS AND ADHESIVES DO NOT CONTAIN UREA FORMALDEHYDE.
 B. EXPOSED WOOD SPECIES: MANUFACTURER'S STANDARD DOMESTIC HARDWOOD SPECIES.
 C. HARDWARE:
 1. HINGES: CONCEALED BUTT HINGES.
 2. PULLS: BACK-MOUNTED DECORATIVE PULLS.

SECTION 123623.13 - PLASTIC-LAMINATE-CLAD COUNTERTOPS
 1.1 PLASTIC-LAMINATE COUNTERTOPS
 A. GRADE: PREMIUM.
 B. FSC-CERTIFIED WOOD PRODUCTS.
 C. HIGH-PRESSURE DECORATIVE LAMINATE: GENERAL-PURPOSE TYPE.
 D. CORE MATERIAL AT SINKS: PARTICLEBOARD MADE WITH EXTERIOR GLUE, MEDIUM-DENSITY FIBERBOARD MADE WITH EXTERIOR GLUE, OR EXTERIOR-GRADE PLYWOOD.
 E. CORE THICKNESS: 1-1/8 INCH.
 1.2 MATERIALS
 A. ADHESIVES: UREA FORMALDEHYDE FREE.

DIVISION 22 - PLUMBING
 SECTION 224213.13 - COMMERCIAL WATER CLOSETS
 1.1 FLOOR-MOUNTED, BACK-OUTLET WATER CLOSETS
 A. WATER CLOSETS: FLOOR MOUNTED, BACK OUTLET, TOP SPUD.
 1. MATERIAL: VITREOUS CHINA.
 2. TYPE: SIPHON JET.
 3. STYLE: FLUSHOMETER VALVE.
 4. SUPPORT: WASTE-FITTING ASSEMBLY.
 1.2 FLUSHOMETER VALVES
 A. LEVER-HANDLE, DIAPHRAGM FLUSHOMETER VALVES:
 1. STYLE: EXPOSED.
 2. CONSUMPTION: 1.6 GAL. PER FLUSH.
 1.3 TOILET SEATS
 A. TOILET SEATS:
 1. TYPE: COMMERCIAL (STANDARD).
 2. SHAPE: ELONGATED RIM, OPEN FRONT.
 3. HINGE: CHECK.
 4. SEAT COVER: NOT REQUIRED.

SECTION 224216.13 - COMMERCIAL LAVATORIES
 1.1 VITREOUS-CHINA, COUNTER-MOUNTED LAVATORIES
 A. LAVATORY: OVAL, SELF RIMMING, VITREOUS CHINA, COUNTER MOUNTED.
 1. TYPE: SELF-RIMMING FOR ABOVE-COUNTER MOUNTING.
 2. NOMINAL SIZE: OVAL, 19 BY 17 INCHES.
 3. FAUCET-HOLE PUNCHING: THREE HOLES, 4-INCH CENTERS.
 4. FAUCET-HOLE LOCATION: TOP.
 1.2 VITREOUS-CHINA, WALL-MOUNTED LAVATORIES
 A. LAVATORY: WHEELCHAIR, VITREOUS CHINA, WALL MOUNTED.
 1. TYPE: SLAB OR WHEELCHAIR.
 2. NOMINAL SIZE: RECTANGULAR, 20-1/2 BY 18-1/4 INCHES.
 3. FAUCET-HOLE PUNCHING: THREE HOLES, 4-INCH CENTERS.
 4. FAUCET-HOLE LOCATION: TOP.
 1.3 SOLID-BRASS, MANUALLY OPERATED FAUCETS
 A. LAVATORY FAUCETS: MANUAL-TYPE, TWO-HANDLE MIXING, COMMERCIAL, SOLID-BRASS VALVE.
 1. BODY TYPE: CENTERSET.
 2. BODY MATERIAL: COMMERCIAL, SOLID BRASS.
 3. FINISH: POLISHED CHROME PLATE.
 4. MAXIMUM FLOW RATE: 1.2 GPM.
 5. MOUNTING TYPE: DECK, EXPOSED.
 6. VALVE HANDLE(S): WRIST BLADE, 4 INCHES.
 7. SPOUT: RIGID TYPE.

ISSUE DATE
2/2/18

SHEET SCALE
N.T.S.

DRAWN BY
EMW

SHEET TITLE
OUTLINE SPECS - CONT.

PERMITTING DRAWINGS

REVISIONS

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PROJECT NO.
16040

PROJECT NAME
MIXED-USE SHELL

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1.1