

PLUMBING FIXTURES AND EQUIPMENT

WATER CLOSET: WC-2 MEN'S / WOMEN'S TOILET ROOM ADA	FIXTURE - AMERICAN STANDARD MODEL #3531.160 "AFWALL", VITREOUS CHINA, WALL HUNG, TOP STD, SIPHON JET FLUSH ACTION, ELONGATED BOWL, WATER CLOSET, 1.6 GPF, STANDARD MOUNTING HEIGHT. FLUSH VALVE - SLOAN ROYAL MODEL 8111.1/81.1 (1) DUAL FLUSH SENSOR OPERATED BATTERY POWERED FLUSH VALVE WITH MANUAL OVERRIDE BUTTONS, RATED FOR 1.6/1.1 GPF, WITH SCREWDRIVER STOP AND CHROME PLATED CAST BRASS WALL FLANGE WITH SET SCREW. SEAT - OLSONITE MODEL #10-AM-CC-SS WITH DURAGUARD ANTIMICROBIAL, BUILT-IN SEAT PROTECTION AND STAINLESS STEEL HINGES, ELONGATED, HEAVY-DUTY, OPEN FRONT, LESS COVER. CARRIER - J.R. SMITH, ADJUSTABLE WITH PROPER DRAIN FITTING. ASSEMBLY TO BE COMPATIBLE WITH FIXTURE AND APPLICATION.
WATER CLOSET: WC-2 MEN'S / WOMEN'S TOILET ROOM & PRIVATE TOILET ROOM ADA	FIXTURE - AMERICAN STANDARD MODEL #3531.160 "AFWALL", VITREOUS CHINA, WALL HUNG, TOP STD, SIPHON JET FLUSH ACTION, ELONGATED BOWL, WATER CLOSET, 1.6 GPF, 18" AFF MOUNTING HEIGHT FOR ADA COMPLIANCE FLUSH VALVE - SLOAN ROYAL MODEL 8111.1/81.1 (1) DUAL FLUSH SENSOR OPERATED BATTERY POWERED FLUSH VALVE WITH MANUAL OVERRIDE BUTTONS, RATED FOR 1.6/1.1 GPF, WITH SCREWDRIVER STOP AND CHROME PLATED CAST BRASS WALL FLANGE WITH SET SCREW. SEAT - OLSONITE MODEL #10-AM-CC-SS WITH DURAGUARD ANTIMICROBIAL, BUILT-IN SEAT PROTECTION AND STAINLESS STEEL HINGES, ELONGATED, HEAVY-DUTY, OPEN FRONT, LESS COVER. CARRIER - J.R. SMITH, ADJUSTABLE WITH PROPER DRAIN FITTING. ASSEMBLY TO BE COMPATIBLE WITH FIXTURE AND APPLICATION.
URINAL: STANDARD MOUNTING HEIGHT MEN'S TOILET ROOM ADA	FIXTURE - AMERICAN STANDARD MODEL 6590.005 "WASHBROOK" WASHOUT FLUSH ACTION TYPE TOP STD, WALL HUNG VITREOUS CHINA URINAL, 0.5 GPF, WITH WALL HANGER, 2" OUTLET FLUSHMETER - SLOAN ROYAL MODEL 8186.05 SENSOR OPERATED BATTERY POWERED FLUSH VALVE WITH OVERRIDE BUTTON, CHROME PLATED FLUSH VALVE, WITH SCREWDRIVER ANGLE STOP WITH RESISTANT STOP CAP, ADJUSTABLE TAILPIECE, 3/4" HIGH BACK PRESSURE VACUUM BREAKER SPOUT COUPLING AND FLANGE FOR TOP SPUD. CARRIER - J.R. SMITH, ADJUSTABLE WITH PROPER DRAIN FITTING. ASSEMBLY TO BE COMPATIBLE WITH FIXTURE AND APPLICATION.
LAVATORY: LAV-2 MEN'S / WOMEN'S TOILET ROOM ADA	FIXTURE - AMERICAN STANDARD MODEL #497.221 "OVALYN" VITREOUS CHINA 19 INCHX16 INCH UNDER COUNTER LAVATORY, 4 INCH CENTERS FOR FAUCET, WITH MOUNTING KIT FOR UNDER COUNTER FAUCET - SYMMONS FAUCET MODEL S-20-2-G-0.5, DECK MOUNTED 4" CENTER, SINGLE LEVER HOT AND COLD WATER CHROME PLATED FAUCET, WITH 0.5 GPM FLOW RETRACTOR DRAIN - 1-1/4" CHROME PLATED CAST BRASS PERFORATED GRID DRAIN TRAP - 1-1/4" X 1-1/2" CHROME PLATED 17 GAUGE CAST P-TRAP WITH CLEANOUT PLUG AND WALL FLANGE SUPPLY RISERS - 1/2" NPS ANGLE WITH FLEXIBLE RISER, LOOSE KEY 1/4 TURN STOPS AND WALL ESCUTCHEONS, INSTALL TRUEBRO SERIES 102 MOLDED FORM PLASTIC ADA COMPLIANT COVERS ON SUPPLIES, WASTE, WASTE ARM AND TRAP.
LAVATORY: LAV-2 PRIVATE TOILET ROOMS ADA	FIXTURE AMERICAN STANDARD MODEL 0356.012 "LUCERNE" VITREOUS CHINA 20 INCH X 18 INCH HOT AND COLD WATER LAVATORY, 4 INCH CENTERS FOR FAUCET, DRILLED FOR CONCEALED ARM CARRIER INSTALLATION, MOUNT UNDERSIDE OF RIM AT 28 INCHES AFF FOR WHEELCHAIR ACCESS FAUCET - CHICAGO FAUCET MODEL MOUNTED 4" CENTER, SINGLE LEVER HOT AND COLD WATER CHROME PLATED FAUCET, WITH 0.5 GPM FLOW RESTRICTOR DRAIN - 1-1/4" CHROME PLATED CAST BRASS PREFERRED GRID DRAIN TRAP - 1-1/4" X 1-1/2" CHROME PLATED 17 GAUGE CAST P-TRAP WITH CLEANOUT PLUG AND WALL FLANGE SUPPLY RISERS - 1/2" NPS ANGLE WITH FLEXIBLE RISER, LOOSE KEY 1/4 TURN STOPS AND WALL ESCUTCHEONS INSTALL TRUEBRO SERIES 102 MOLDED FORM PLASTIC ADA COMPLIANT COVERS ON SUPPLIES, WASTE, WASTE ARM AND TRAP.
CLINICAL SERVICE SINK: (CSS-1) CADAVER LAB	FIXTURE - AMERICAN STANDARD WALL HUNG CLINICAL SERVICE SINK MODEL 9512.999.020 WITH THREE RIN GUARDS MODEL 783521.075 FAUCET - AMERICAN STANDARD MODEL 8345.115-002 EXPOSED YOKE WALL-MOUNT UTILITY FAUCET WITH BOTTOM FORK BRACE AND OFFSET SHANKS. POLISHED CHROME FINISH, CAST BRASS BODY, METAL WRISTBLADE HANDLES WITH RED AND BLUE COLOR INDICATORS AND VANDAL RESISTANT SCREWS, 1/4" TURN CERAMIC DISC VALVE CARTRIDGES, BRASS SPOUT WITH BRACKET HOOK, BOTTOM FORK BRACE, 0.75 GPM FLOW, 1/2" NPS SUPPLY INLETS WITH INTEGRAL CHECK VALVES, 1/2" FEMALE INLETS WITH INLETS WITH ADJUSTABLE CENTERS FROM 6" TO 10" FLUSH VALVE - SLOAN 117 EXPOSED SERVICE SINK TOP STD FLUSHMETER, RATED FOR 6.5 GPF, HIGH CHLORINE RESISTANT PERMEX SYNTHETIC RUBBER DIAPHRAGM WITH LINEAR FILTERED BYPASS AND VORTEX EXHAUSTING ACTION, ADA COMPLIANT METAL OSCILLATING NON-HOLD OPEN HANDLE WITH TRIPLE SEAL HANDLE PAKING, 1" IPS, SCREWDRIVER BAK-CHERK ANGLE STOP ADJUSTABLE TAILPIECE, VACUUM BREAKER WITH FLUSH CONNECTION, STUD COUPLING AND STUD FLANGE FOR 1 1/2" TOP STD, SWEAT SOLDER ADAPTOR WITH COVER TUBE AND CAST WALL FLANGE PROVIDE WITH J. R. SMITH CARRIER SERIES 0631(X)YX WITH FITTINGS SPECIFIC TO THE FIXTURE.
SCRUB SINK: SS-1 SIM LAB AND CADAVER LAB	FIXTURE - ELKAY MODEL #WFS13026SAC SINGLE SURGICAL SINGLE STATION SCRUB-UP SINK WALL MOUNTED, #16 GAUGE, 304 (18R) STAINLESS STEEL, COVED CORNERS, KEYS ACCESS DOOR, WALL HANGER, FULL LENGTH BACKSPLASH AND FULL EXPOSURE. UNIT TO BE POLISHED TO A SATIN FINISH AND THE UNDERSIDE TO BE SOUND DEADENED. FAUCET - ELKAY MODEL LK8721C, SENSOR OPERATED, DECK MOUNTED NON-MIXING GOOSENECK FAUCET WITH ADJUSTABLE SENSOR EYES. FAUCET TO BE CHROME PLATED, SOLID BRASS CONSTRUCTION WITH 2.0 GPM LAMINAR FLOW CONTRAST ASSEMBLY TO BE PROVIDED WITH MANUFACTURERS CONTROL MODULE AND POWER CABLES, DUAL POWER OPTIONS AC PLUG-IN OR 4-AA DRAIN - ELKAY RK1818 STAINLESS STEEL PERFORATED STRAINER GRID, DRAIN WITH 1-1/2" O.D. X 1/4" STAINLESS STEEL TAILPIECE THERMOSTATIC MIXING VALVE - ELKAY MODEL LK723 TOP OF-USE WATER TEMPERING VALVE, COMPLYING WITH ASSE 1016 and ASSE 1070, POSITIVE SHUTOFF OF HOT WATER WHEN COLD WATER SUPPLY IS LOST, RATED FOR 120 VOLT, 1/2" NPS SUPPLY INLETS WITH REPLACEABLE CORROSION-RESISTANT COMPONENTS, SET POINT: FACTORY PRESET AT 100 DEG. F, OUTLET TEMPERATURE RANGE 80 TO 120 DEG. F, INLETS - OUTLET CONNECTIONS 1/2" NPS TRAP - CHROME PLATED 17 GAUGE 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT PLUG AND WALL FLANGE SUPPLY RISERS - 1/2" ANGLE SUPPLIES, FLEXIBLE RISERS, WITH LOOSE KEY STOPS.
SINK: SINK BREAKROOMS (TO BE FURNISHED AND INSTALLED WITH FIXTURE GO-1)	FIXTURE - ELKAY MODEL GECR2621 GOURMET (CELEBRITY) SINGLE BOWL, (21"x15.25"x5.25") TOP MOUNT STAINLESS STEEL, SINK, 18 GAUGE TYPE 304 CONSTRUCTION WITH SATIN POLISH FINISH AND FULLY UNDERCOATED TO DAMPEN SOUND. SINK TO BE 4-HOLE PUNCHED FOR FAUCET AND SIDE SPRAY. FAUCET - CHICAGO MODEL 200-ABCP MANU. FAUCET, WITH SIDE SPRAY, 1/2" TYPE SWING SPOUT, 2" VANDAL PROOF CANOPY SINGLE WING HANDLES, 1/2" NPSM SUPPLY INLETS AND COUPLING NUT FOR 1/2" FLEXIBLE RISER WITH SPOUT AND 2.2 GPM VANDAL PROOF AERATOR OUTLET. DRAIN - TO BE INSTALLED WITH GARBAGE DISPOSER GO-1 TRAP - CHROME PLATED 17 GAUGE 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT PLUG AND WALL FLANGE SUPPLY RISERS - 1/2" ANGLE SUPPLIES, FLEXIBLE RISERS, WITH LOOSE KEY STOPS.
GARBAGE DISPOSER: GO-1	INSINKERATOR MODEL EVOLUTION COMPACT FOOD WASTE DISPOSER WITH MULTI-GRIND AND SOUND SEAL TECHNOLOGIES, 120 VOLT, 0.75 HP MOTOR WITH STAINLESS STEEL GRIND COMPONENTS, PERMANENTLY LUBRICATED UPPER AND LOWER BEARINGS AND MANUAL RESET OVERLOAD. TO BE FURNISHED AND INSTALLED WITH FIXTURE SK-1
SINK SK-2 NURSING MOCK EXAM ROOMS LACT. (275)	FIXTURE - ELKAY MODEL LRA01517 SINGLE BOWL, (12"x12"x26.5") TOP MOUNT STAINLESS STEEL SINK, 18 GAUGE TYPE 304 CONSTRUCTION WITH SATIN POLISH FINISH AND FULLY UNDERCOATED TO DAMPEN SOUND. SINK TO BE 3-HOLE PUNCHED FOR FAUCET. FAUCET - CHICAGO MODEL 886-317GZNA2BACP MANU. FAUCET, CHROME PLATED FINISH, RIGID GOOSENECK SPOUT, WRIST BLADE HANDLES, 1/2" NPSM SUPPLY INLETS AND COUPLING NUT FOR 1/2" FLEXIBLE RISER WITH SPOUT AND 2.2 GPM VANDAL PROOF AERATOR OUTLET. DRAIN - ELKAY ALK4D-18 CHROME PLATED STAMPED BRASS DRAIN OUTLET FITTING WITH 3" CHROME PLATED STEEL PERFORATED GRID STRAINER, TO INCLUDE LK05 CHROME PLATED OFF-SET TAILPIECE WITH CAST BRASS ELBOW TRAP - CHROME PLATED 17 GAUGE 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT PLUG AND WALL FLANGE SUPPLY RISERS - 1/2" ANGLE SUPPLIES, FLEXIBLE RISERS, WITH LOOSE KEY STOPS.
SINK SK-3 NURSING CLASSROOMS / LABS	FIXTURE - SINK TO BE INTEGRAL WITH COUNTERTOP. CONTRACTOR TO FURNISH AND INSTALL FAUCET AND DRAIN ASSEMBLY. UNDERCOATED TO DAMPEN SOUND. SINK TO BE 3-HOLE PUNCHED FOR FAUCET. FAUCET - CHICAGO MODEL 786-02NBVB3-2ABCP CHROME PLATED FINISH, GOOSENECK SPOUT, VANDAL PROOF WRIST BLADE HANDLES, 1/2" NPSM SUPPLY INLETS AND COUPLING NUT FOR 1/2" FLEXIBLE RISER WITH SPOUT AND 2.2 GPM VANDAL PROOF AERATOR OUTLET. DRAIN - ELKAY ALK-K-18 TYPE 304 STAINLESS STEEL BODY WITH REMOVABLE CONICAL BASKET, STRAINER WITH METAL STEM AND RUBBER STOPPER. POLISHED FINISH CHROME PLATED BRASS 1-1/2" X 1/4" TAILPIECE. TRAP - CHROME PLATED 17 GAUGE 1-1/2" CAST BRASS P-TRAP WITH CLEANOUT PLUG AND WALL FLANGE SUPPLY RISERS - 1/2" ANGLE SUPPLIES, FLEXIBLE RISERS, WITH LOOSE KEY STOPS.
MOP SINK MS-1	FIAT PRODUCTS MODEL TS83000 MOP SERVICE BASIN, ONE-PIECE, PRECAST TERRAZZO, 24"x24"x12", STAINLESS STEEL CAPS ON ALL CURB EDGES. FIXTURE TO INCLUDE FIAT PRODUCTS, 830AA MOP SERVICE BASIN FITTING, 833AA SILICON SEALANT, M8G STAINLESS WALL GUARDS AND 832AA HOSE AND HOSE BRACKET. FIXTURE - WALL MOUNTED CHICAGO FAUCET MODEL 540-LDR83SVX5P TOP, 8" ON CENTERS, 5.3/4" RIGID VACUUM BREAKER SPOUT WITH 3/4" MALE HOSE THREAD AND PAID HOOK, 4" WRISTBLADE HANDLES FOR HOT AND COLD WATER SUPPLIES, QUATURN COMPRESSION OPERATING CARTRIDGE.
ELECTRIC WATER COOLER: LEVEL 0 MECHANICAL ROOM	HALSEY TAYLOR MODELHAC8FSB-Q, ADA LEED-FREE, SELF-CONTAINED, HEAVY-DUTY, B1-LEVEL WALL MOUNTED WATER COOLER, BARRIER FREE. FOUNTAIN TOP CONSTRUCTED OF STAINLESS STEEL, POLISHED SATIN FINISH. PUMP, BRASS ACTUATION, ONE-PIECE, CHROME PLATED BUBBLER AND IN-LET STRAINER. UNIT TO BE RATED FOR 80 GPH AT 80°F. 115V/1~60Hz OPERATION, 4.0 FLA. VERIFY INSTALLATION AND HIGH-LOW REQUIREMENTS PRIOR TO ORDERING UNIT. COMING WITH 1/2" NPSM SUPPLY INLETS AND COUPLING NUTS.
SUMP PUMP: W/ SP-2 LEVEL 0 MECHANICAL ROOM	WEL PUMP CO. INC. DULUTH SUMP PUMP MODEL222A (EACH), EACH PUMP RATED FOR: 350 GPM @ 25 FT OF HEAD WITH 5 HP MOTORS, 480 VOLTS, 3-PHASE POWER, FOUR. INCH DIAMETER DISCHARGE ASSEMBLY, 1/2" NPSM SHUT OFF VALVE, 1/2" NPSM DISCHARGE DISCONNECT FOR EACH, MAGNETIC STARTER, 1/2" NPSM DISCHARGE STARTERS, ALTERNATOR, HIGH WATER ALARM RELAY AND PUMP FAILURE RELAY WITH EXTRA CONTACT FOR REMOTE ALARM, CONTROL TRANSFORMER (WHERE REQUIRED FOR 120 VOLT CONTROL POWER, CODED TERMINAL STRIP AND ELAPSE TIME METER, PEDESTAL MOUNTED ALTERNATING FLOAT SWITCHES TO ALTERNATE OPERATIONS OF THE PUMPS AND TO PROVIDE SIMULTANEOUS OPERATION WHEN REQUIRED), SUMP HIT PUMP 2.0 INCH DIAMETER, 1/2" NPSM DISCHARGE, 1/2" NPSM SUPPLY INLETS AND COUPLING NUTS, ALL NECESSARY AND REQUIRED FITTINGS, VALVES, ACCESSORIES, PIPE HANGERS AND SUPPORTS AS REQUIRED FOR A COMPLETE DUMP SYSTEM. SYSTEM TO INCLUDE SAND INTERCEPTOR.
SUMP PUMP: ESP-1 / ESP2 ELEVATOR FT 14.0-12.2	WEL PUMP CO. INC. MODEL 1411 SUBMERSIBLE SUMP PUMP, RATED FOR 30 GPM @ 27 FT OF HEAD. ASSEMBLY SHALL BE COMPLETE WITH HIGH WATER ALARM FLOAT AND SMART CONTROL SYSTEM WITH BUILT-IN AUDIBLE AND VISUAL ALARM. TO INDICATE WHEN PUMP IS NOT OPERATING DUE TO HIGH WATER CONDITIONS. ASSEMBLY TO INCLUDE ALL NECESSARY AND REQUIRED FITTINGS, VALVES, ACCESSORIES, PIPE HANGERS AND SUPPORTS AS REQUIRED FOR A COMPLETE SYSTEM. COORDINATE INSTALLATION WITH THE GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR.
EMERGENCY EYEFACE WASH: EW-1 AND RELATED SPACES	FIXTURE - WATER SAVER SERIES EW949 DECK MOUNTED AUTO-FLOW DUAL ANGLE FILTERED SPRAY HEAD EYE WASH UNIT. UNIT TO BE CHROME PLATED BRASS, SPRAY HEAD ASSEMBLY TO PROVIDE TWO SPRAY HEADS WITH FLIP-TOP DUST COVER, INTERNAL FLOW CONTROL AND IN-LINE FILTER. VALVE TO BE 0.5 INCH PLUG TYPE WITH O-RING SEALS. UNIT ACTIVATION IS SWING DOWN OPERATION. ASSEMBLY IS TO MOUNT TO COUNTER-TOP, COORDINATE WITH THE GENERAL CONTRACTOR FOR LOCATION OF UNIT AND MOUNTING HOLE. CONTRACTOR NOTE, SEVERAL SPRAY HEAD CONNECTIONS ARE AVAILABLE IN THIS SERIES. SELECT EACH DECK MOUNTED EYE WASH UNIT FOR THE LOCATION AND APPLICATION. INSTALLATION TO BE IN FULL COMPLIANCE WITH A.D.A. GUIDELINES. FURNISH AND INSTALL WITH THERMOSTATIC MIXING VALVE TMV-3, MOUNT IN CABINET SPACE BELOW THE SINK.
EMERGENCY SHOWER: ES-1 AND RELATED SPACES	FIXTURE - GUARDIAN MODEL GBF2190 RECESSED SAFETY STATION WITH PULL DOWN EYEWASH COVER/RAIN PAN, 10 INCH DIAMETER EXPOSED STAINLESS STEEL, SHOWER HEAD SHOWER VALVE TO BE 1 INCH BRASS STAY OPEN BALL VALVE, WITH STAINLESS STEEL PANCI BAR ACTUATOR. COVER/RAIN PAN TO BE PULL DOWN ACTIVATION AND EYEFACE WASH ASSEMBLY. EYEFACE WASH VALVE TO BE 0.5 INCH BRASS PLUG TYPE VALVE WITH O-RING SEALS, FURNISHED WITH IN-LINE STRAINER. UNIT TO CONNECT TO 2 INCH WASTE. MOUNTING HOLE TO BE IN FULL COMPLIANCE WITH A.D.A. GUIDELINES. CONTRACTOR TO FURNISH AND INSTALL 1 INCH PIPING AND FITTINGS AS REQUIRED FROM THE RECESSED UNIT TO TEN SHOWER HEAD. FURNISH AND INSTALL WITH THERMOSTATIC MIXING VALVE TMV-2.
THERMOSTATIC MIXING VALVE: TMW-1 (TO BE FURNISHED AND INSTALLED WITH EMERGENCY SHOWERS - ES-1)	BRADLEY MODEL #519-3590-B PIPED ASSEMBLY WITH INLET AND OUTLET SHUT-OFFS, LEAD FREE BRASS CONSTRUCTION FACTORY ASSEMBLED AND TESTED, INTEGRAL CHECK-STOPS AND STRAINER ON INLETS, ADJUSTABLE SET POINT WITHIN TEMPERATURE RANGE, BUILT-IN COLD WATER BYPASS, ASSURING COLD FLOW, POSITIVE SHUTOFF ON HOT WATER WHEN COLD SUPPLY IS LOST, DIRT AND LIME RESISTANT, DUAL THERMOMETER, MAJOR MANUFACTURERS WALL MOUNTING BRACKET. INLETS TO BE 1-1/4", OUTLET TO BE 1-1/2". MAXIMUM OPERATING PRESSURE 125 PSI, MAXIMUM INLET TEMPERATURE 200°F. MOUNT FOR FULL ACCESSIBILITY AND POSITION THERMOMETER TO BE VISIBLE AND EASILY READ. VERIFY AND COORDINATE TEMPERATURE SET-POINT WITH THE GENERAL CONTRACTOR.
THERMOSTATIC MIXING VALVE: TMW-2 (TO BE FURNISHED AND INSTALLED WITH EMERGENCY SHOWERS - ES-1)	BRADLEY MODEL #5-2100-B-P, EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE, PIPED ASSEMBLY WITH INLET AND OUTLET SHUT-OFFS, LEAD FREE BRASS CONSTRUCTION FACTORY ASSEMBLED AND TESTED, INTEGRAL CHECK-STOPS AND STRAINER ON INLETS, ADJUSTABLE SET POINT WITHIN TEMPERATURE RANGE, BUILT-IN COLD WATER BYPASS, ASSURING COLD FLOW, POSITIVE SHUTOFF ON HOT WATER WHEN COLD SUPPLY IS LOST, DIRT AND LIME RESISTANT, SINGLE THERMOMETER, PROVIDE MANUFACTURERS WALL MOUNTING BRACKET. INLETS TO BE 3/4", OUTLET TO BE 3/4", MAXIMUM OPERATING PRESSURE 125 PSI, MAXIMUM INLET TEMPERATURE 180°F. MOUNT IN THE CEILING SPACE ABOVE THE EMERGENCY SHOWER IN THE UP-RIGHT POSITION. ASSEMBLY TO BE FULLY ACCESSIBLE, THERMOMETER TO BE VISIBLE AND EASILY READ. SET-POINT TEMPERATURE TP BE 85°.
THERMOSTATIC MIXING VALVE: TMW-3 (TO BE FURNISHED AND INSTALLED WITH EMERGENCY EYE WASH - EW-1)	BRADLEY MODEL #519-2000-B-P, EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE. LEAD FREE BRASS CONSTRUCTION FACTORY ASSEMBLED AND TESTED, INTEGRAL CHECK-STOPS ON INLETS, ADJUSTABLE SET POINT WITHIN TEMPERATURE RANGE, BUILT-IN COLD FLOW, POSITIVE SHUTOFF ON HOT WATER WHEN COLD SUPPLY IS LOST, DIRT AND LIME RESISTANT, SINGLE THERMOMETER, PROVIDE MANUFACTURERS WALL MOUNTING BRACKET. INLETS TO BE 1/2", OUTLET TO BE 1/2". MAXIMUM OPERATING PRESSURE 125 PSI, MAXIMUM INLET TEMPERATURE 180°F. MOUNT IN THE CABINET SPACE BELOW THE SINK, IN THE UP-RIGHT POSITION. ASSEMBLY TO BE FULLY ACCESSIBLE, THERMOMETER TO BE VISIBLE AND EASILY READ. SET-POINT TEMPERATURE TO BE 85°F.
HOSE STATION: HS-1 CADAVER LAB	ACORN ENGINEERING COMPANY SERIES 8156 - HOSE & SUPPLY BOX FOR HOT AND COLD WATER SERVICE. STAINLESS STEEL RECESSED BOX WITH WALL FLANGE AND LEAD-FREE VACUUM BREAKER BOX TO BE CONSTRUCTED OF 18 GAUGE, 1/4" 304 STAINLESS STEEL, WALL FLANGE TO BE 16 GAUGE STAINLESS STEEL WITH SATIN FINISH. INLETS 3/4" FEMALE, OUTLET 3/4" MALE HOSE THREAD, VALVES AND STOP BODY TO BE CAST BRONZE, EXPOSED PARTS TO BE CHROME PLATED, WITH SCREWDRIVER STOPS FOR SERVING EACH VALVE. DOOR IS TO BE PROVIDED WITH A CYLINDER LOCK DOOR AND/OR LOCK TO BE EASILY REMOVABLE AT OWNERS OPTION.
COFFEE MAKER OJ MAKER CM-1	GUY GRAY MODEL MDWB1AB RECESSED WHITE POWDER COATED STEEL WATER OUTLET BOX WITH 5 INCH SWEAT CONNECTION LEAD FREE QUARTER TURN VALVE AND WATER HAMMER ARRESTER. UNIT TO BE MOUNTED ABOVE THE COUNTER OR AS DIRECTED BY THE ARCHITECT. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE TUBING, FITTINGS AND MAKE FINAL CONNECTION TO EQUIPMENT AS REQUIRED.
ICE MAKER OUTLET BOX: IM-1	GUY GRAY MODEL MB1HAAB RECESSED WHITE POWDER COATED STEEL WATER OUTLET BOX WITH 5 INCH SWEAT CONNECTION LEAD FREE QUARTER TURN VALVE AND WATER HAMMER ARRESTER. UNIT TO BE MOUNTED BEHIND THE EQUIPMENT, IN AN ACCESSIBLE LOCATION OR AS DIRECTED BY THE ARCHITECT. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE TUBING, FITTINGS AND MAKE FINAL CONNECTION TO EQUIPMENT AS REQUIRED.
DISHWASHER OUTLET BOX: DW-1	GUY GRAY MODEL MDWB1AB RECESSED WHITE POWDER COATED STEEL WATER OUTLET BOX WITH 5 INCH SWEAT CONNECTION LEAD FREE QUARTER TURN VALVE AND WATER HAMMER ARRESTER. UNIT TO BE MOUNTED BEHIND THE EQUIPMENT, IN AN ACCESSIBLE LOCATION OR AS DIRECTED BY THE ARCHITECT. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE TUBING, FITTINGS AND MAKE FINAL CONNECTION TO EQUIPMENT AS REQUIRED.
GREASE INTERCEPTOR: GI-1	J. R. SMITH SERIES 8235-B-1226440-H20-ARIO SEAT INTERCEPTOR WITH EXTENSION WITH LIFT OUT SEDIMENT BUCKET, TRAFFIC RATED COVER, FLOW CONTROL FITTING AND ACID RESISTANT COATING INSIDE AND OUTSIDE. ASSEMBLY RATED FOR 35 GPM AND 70 LBS OF GREASE CAPACITY. PROVIDE MANUFACTURERS EXTENSION FOR DEPTH REQUIRED.
ELECTRONIC TRAP PRIMER: TP-1	PRECISION PLUMBING PRODUCTS MODEL P78-B, PROVIDE WITH EIGHT, 88" COMPRESSION FITTINGS FOR 1/2" COPPER WATER LINE TO EACH FLOOR SINK. ONE OUTLET TO BE CAPPED AS REQUIRED. ASSEMBLY TO BE COMPLETE WITH AUTO-SIPHON ATMOSPHERIC VACUUM BREAKER, 24-HOUR AUTOMATIC TIMER, WITH MANUAL OVER-RIDE BUTTON. INTERNAL CIRCUIT BREAKER AND SOLENOID VALVE OPERATING AT 120 VOLT, HOUSED IN A NEMA 1 SURFACE MOUNTED CABINET.

PLUMBING FIXTURES AND EQUIPMENT

DOMESTIC WATER HEATER: HWH-1 DEIONIZED WTR. SERVICE	RHEM MODEL: QHE 100ES-400A SPID-FIRE HIGH EFFICIENCY COMMERCIAL NATURAL GAS FIRE HOT WATER HEATER. UNIT TO BE SEALED COMBUSTION, ULTRA LOW NOX WITH A THERMAL EFFICIENCY OF 94%, WITH A NATURAL GAS INTAKE OF 40 MBH AND A RECOVERY RECOVERY RATE OF 445 GALLONS AT 100°F TEMPERATURE RISE, RATED FIRST HOUR DELIVERY OF 1546 GALLONS. WATER HEATER SHALL HAVE A STORAGE CAPACITY OF 100 GALLONS. ASME CONSTRUCTION. UNIT TO INCLUDE FACTORY INSTALLED CSA/ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE. VENTING SHALL BE WITH STANDARD PVC PLASTIC PIPING. CONTROL SYSTEM SHALL BE CAPABLE OF COMPLETE DIAGNOSTIC FEATURES AND AN OPERATIONAL HISTORY. WATER CONNECTIONS TO BE AVAILABLE ON BOTH SIDES OF THE UNIT TO ALLOW FOR FLEXIBILITY IN INSTALLATION. A FULL PORT DRAIN VALVE SHALL BE FACTORY INSTALLED. GAS IGNITION SHALL BE BY DIRECT SPARK. ASSEMBLY SHALL MEET THE REQUIREMENTS OF CSA AND HAVE CERTIFICATION SEAL ATTACHED. FURNISH AND INSTALL WITH THERMOSTATIC MIXING VALVE T/M-1
EXPANSION TANK: ETC-1	WATTS SERIES DETA 60, ASME PRESSURIZED EXPANSION TANK. PRE-CHARGED TO 40 PSI WITH FIXED BUTYL BLADDER. PRESSURE CHARGE IS FIELD ADJUSTABLE. TOP POSITION NPT STAINLESS STEEL CONNECTION AND A STANDARD CHARGING VALVE. TANK TO BE CONSTRUCTED IN ACCORDANCE TO ASME SECTION VIII. EXPANSION TANK TANK VOLUME 26.0 GALLONS, TANK ACCEPTANCE 15.5 GALLONS.
DOMESTIC HOT WATER CIRCULATING PUMP: HWP-1	BELL & GOSSETT MODEL NBF-25 IN-LINE SYSTEM LUBRICATED CIRCULATION PUMP. SUITABLE FOR OPERATION OF (225°F) AND 150 PSI MAXIMUM WORKING PRESSURE. LEAD FREE BRONZE BODY WITH NORLY IMPELLER. PUMP TO BE RATED FOR 6 GPM AT 10 FT/H ₂ O. ELECTRICAL CHARACTERISTICS : 115 VOLT, SINGLE PHASE POWER, 125 WATTS/1.10 FULL LOAD AMPS. APPROXIMATE PUMP WEIGHT 10.4 LBS.
BACKFLOW PREVENTER: BFP-2 DOMESTIC WTR. SERVICE	WATTS REGULATOR SERIES LF909-QT-FAD-SFDA REDUCED PRESSURE ZONE ASSEMBLY. 4 INCH INLET AND OUTLET, FDA EPOXY COATED QUARTER TURN OPERATING VALVES. BRONZE RELIEF VALVE BODY AND SEATS WITH BRONZE TEST COCKS. STAINLESS STEEL TRIM. MAXIMUM OPERATING PRESSURE 175 PSI, TEMPERATURE RANGE 33°F TO 110°F CONTINUOUS. ASSEMBLY TO INCLUDE, FDA EPOXY COATED BRONZE TRIM, WATTS 909AG-K AIR GAP FITTING AND RK-SAE-TC-B SAE BRASS CAP, O-RING AND TETHER FOR EACH TEST COCK. VERIFY REQUIREMENTS PRIOR TO ORDERING AND INSTALLATION.
BACKFLOW PREVENTER: BFP-2 MAKE-UP WATER SERVICE	WATTS REGULATOR SERIES LF909-QT-SFDA REDUCED PRESSURE ZONE ASSEMBLY. 0.75 INCH INLET AND OUTLET, QUARTER TURN OPERATING VALVES. BRONZE RELIEF VALVE BODY AND SEATS WITH BRONZE TEST COCKS. STAINLESS STEEL TRIM. MAXIMUM OPERATING PRESSURE 175 PSI, TEMPERATURE RANGE 33°F TO 110°F CONTINUOUS. ASSEMBLY TO INCLUDE, BRONZE STRAINER, MODEL 909AG-C AIR GAP FITTING AND RK-SAE-TC-B SAE BRASS CAP, O-RING AND TETHER FOR EACH TEST COCK. VERIFY REQUIREMENTS PRIOR TO ORDERING AND INSTALLATION.
BACKFLOW PREVENTER: BFP-3 DEIONIZED WTR. SERVICE	WATTS REGULATOR SERIES LF909-QT-SFDA REDUCED PRESSURE ZONE ASSEMBLY. 1 INCH INLET AND OUTLET, QUARTER TURN OPERATING VALVES. BRONZE RELIEF VALVE BODY AND SEATS WITH BRONZE TEST COCKS. STAINLESS STEEL TRIM. MAXIMUM OPERATING PRESSURE 175 PSI, TEMPERATURE RANGE 33°F TO 110°F CONTINUOUS. ASSEMBLY TO INCLUDE, BRONZE STRAINER, MODEL 909AG-X AIR GAP FITTING AND RK-SAE-TC-B SAE BRASS CAP, O-RING AND TETHER FOR EACH TEST COCK. VERIFY REQUIREMENTS PRIOR TO ORDERING AND INSTALLATION.
BACKFLOW PREVENTER: BFP-2 MAKE-UP WATER SERVICE	WATTS REGULATOR SERIES LF909-QT-SOT-S. REDUCED PRESSURE ZONE ASSEMBLY. 1.14 INCH INLET AND OUTLET, QUARTER TURN OPERATING VALVES. BRONZE RELIEF VALVE BODY AND SEATS WITH BRONZE TEST COCKS. STAINLESS STEEL TRIM. MAXIMUM OPERATING PRESSURE 175 PSI, TEMPERATURE RANGE 33°F TO 110°F CONTINUOUS. ASSEMBLY TO INCLUDE, BRONZE STRAINER, RK-SAE-TC-B SAE BRASS CAP, O-RING AND TETHER FOR EACH TEST COCK. VERIFY REQUIREMENTS PRIOR TO ORDERING AND INSTALLATION.
FLOOR DRAIN: FD-2 PUBLIC SPACES AND AS INDICATED	JAY R. SMITH MODEL 2005Y-NB-U-P050. DUCO CAST IRON BODY CONSTRUCTION WITH ADJUSTABLE STRAINER HEAD. NO HUB 4 INCH OUTLET, 8 INCH ROUND NICKEL BRONZE STRAINER TOP WITH VANDAL PROOF SCREWS. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
FLOOR DRAIN: FD-2 CADAVER LAB	JAY R. SMITH MODEL 2005Y-NB-B-U-P050. DUCO CAST IRON BODY CONSTRUCTION, 4 INCH NO-HUB OUTLET WITH ADJUSTABLE 8 INCH NO-HUB ROUND NICKEL BRONZE STRAINER HEAD. TRAP PRIMER CONNECTION, SEDIMENT BUCKET AND VANDAL PROOF SCREWS. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE WITH J.R. SMITH SERIES 2692-04 QUAD CLOSE TRAP SEAL.
FLOOR DRAIN: LEVEL 0 AND MECH/SERVICE AREAS	JAY R. SMITH MODEL 2360Y-E-H-P. DUCO CAST IRON BODY CONSTRUCTION AND FLASHING COLLAR WITH ADJUSTABLE TOP. GALVANIZED CAST IRON 11.5 INCH BAR GRATE AND DEEP SLOTTED SEDIMENT BUCKET, AND TRAP PRIMER CONNECTION. OUTLET TO ACCEPT NO-HUB CAST IRON PIPING. PROVIDE ADJUSTABLE EXTENSION AND TRANSITION COLLAR AS REQUIRED. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE WITH J.R. SMITH SERIES 2692-04 QUAD CLOSE TRAP SEAL.
SUMP PUMP: LEVEL 0 CONDENSATE DRAINS	WEIL PUMP CO. INC. MODEL 1411 SUBMERSIBLE SUMP PUMP. RATED FOR 25 GPM @ 25 FT OF HEAD. ASSEMBLY SHALL BE COMPLETE WITH HIGH WATER ALARM FLOAT AND SMART CONTROL SYSTEM WITH BUILT-IN AUDIBLE AND VISUAL ALARM TO INDICATE WHEN PUMP IS NOT OPERATING DUE TO HIGH WATER CONDITIONS. ASSEMBLY TO INCLUDE ALL NECESSARY AND REQUIRED FITTINGS, VALVES, ACCESSORIES, PIPE HANGERS AND SUPPORTS AS REQUIRED FOR A COMPLETE SYSTEM. COORDINATE INSTALLATION WITH THE GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR. PROVIDE SUMP PIT AND COVER SIMILAR TO THAT USED FOR SUMP PUMP SP-1/SP-2.
ROOF DRAIN: RD-1	JAY R. SMITH MODEL 1010Y-R-C-DIC. LARGE GENERAL PURPOSE ROOF DRAIN. DUCO CAST IRON BODY CONSTRUCTION WITH COMBINED FLASHING CLAMP AND GRAVEL STOP. TO INCLUDE SUMP RECEIVER, UNDER-DECK CLAMP AND CAST IRON DOME STRAINER. OUTLET TO ACCEPT NO-HUB CAST IRON PIPING. SIZES AS INDICATED ON THE DRAWINGS. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
ROOF DRAIN: RD-2 GREEN ROOF	JAY R. SMITH MODEL 1900Y-R-C. GREEN ROOF MAIN AREA DRAIN WITH STANDPIPE. DUCO CAST IRON BODY CONSTRUCTION FLASHING CLAMP AND STAINLESS STEEL PERFORATED GRAVEL STOP. TO INCLUDE SUMP RECEIVER, UNDER-DECK CLAMP. COORDINATE HEIGHT OF PERFORATED GRAVEL STOP AND STANDPIPE WITH DEPTH OF GREEN ROOF IN-FILL. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS. OUTLET TO ACCEPT NO-HUB CAST IRON PIPING. SIZES AS INDICATED ON THE DRAWINGS. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
OVERFLOW ROOF DRAIN: OD-1	JAY R. SMITH MODEL 1070Y-R-C-SP2-CD. SPECIAL PURPOSE ROOF DRAIN. DUCO CAST IRON BODY CONSTRUCTION WITH COMBINED FLASHING CLAMP AND GRAVEL STOP. TO INCLUDE PVC STANDPIPE, SUMP RECEIVER, UNDER-DECK CLAMP AND CAST IRON DOME STRAINER. OUTLET TO ACCEPT NO-HUB CAST IRON PIPING. SIZES AS INDICATED ON THE DRAWINGS. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
DOWNSPOUT NOZZLE: DN-1	JAY R. SMITH MODEL 1775-U. SPECIAL PURPOSE DOWNSPOUT COVER. TYPE 304 STAINLESS STEEL CONSTRUCTION WITH SECURED HINGED PERFORATED COVER. OUTLET TO ACCEPT NO-HUB CAST IRON PIPING. SIZES AS INDICATED ON THE DRAWINGS. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. COORDINATE LOCATIONS AND ELEVATION WITH ARCHITECT.
FLOOR SINK: FS-1	JAY R. SMITH MODEL 3161Y-03-P-13 CAST IRON BODY FLOOR SINK WITH ACID RESISTANT COATED INTERIOR. 18 INCH SUMP DEPTH. SQUARE 12.5 INCH TOP, NICKEL BRONZE RIM WITH 3/4 GRATE, SEDIMENT BUCKET, NO-HUB 3" CONNECTION AND TRAP PRIMER CONNECTION. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
FLOOR SINK: FS-2	JAY R. SMITH MODEL 3461Y-03-C-U-P-13 CAST IRON BODY FLOOR SINK WITH ACID RESISTANT COATED INTERIOR. 10 INCH SUMP DEPTH. SQUARE 12.5 INCH TOP. NICKEL BRONZE RIM WITH 3/4 GRATE, SEDIMENT BUCKET, FLASHING CLAMP, VANDAL PROOF SCREWS AND NO-HUB 3" CONNECTION AND TRAP PRIMER CONNECTION. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
FLOOR SINK: FS-3	JAY R. SMITH MODEL 3451Y-04-C-P-13 CAST IRON BODY FLOOR SINK WITH ACID RESISTANT COATED INTERIOR. 12 INCH SUMP DEPTH. SQUARE 16 INCH SQUARE TOP. ACID RESISTANT COATED CAST IRON 3/4 SEDIMENT BUCKET, NO-HUB 4" CONNECTION. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE WITH J.R. SMITH SERIES 2692-04 QUAD CLOSE TRAP SEAL.
FLOOR CLEANOUT: FCO-1	JAY R. SMITH MODEL 4023S-U ROUND CAST IRON BODY FLOOR CLEANOUT WITH TAPER THREAD BRONZE PLUG AND NICKEL BRONZE ADJUSTABLE HEAD WITH SCORATED SOLID NICKEL BRONZE COVER AND VANDAL PROOF SCREWS. COVER TO HAVE 'CO' CAST IN TOP. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
FLOOR CLEANOUT: FCO-2	JAY R. SMITH MODEL 4512S-Y CAST IRON BODY STACK CLEANOUT TEE. TAPER THREAD WITH BRONZE PLUG. NO-HUB PIPE CONNECTIONS ON BOTH ENDS. FOR USE IN AREAS NON PUBLIC AREAS. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
WALL CLEANOUT: WCO-1	JAY R. SMITH MODEL 4532S-Y CAST IRON BODY STACK CLEANOUT TEE. TAPER THREAD WITH BRONZE PLUG. NO-HUB PIPE CONNECTIONS ON BOTH ENDS. STAINLESS STEEL ROUND COVER WITH CENTER SCREW FOR USE IN AREAS PUBLIC AREAS. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
WALL CLEANOUT CONCEALED: WCO-2	JAY R. SMITH MODEL 4532S-Y CAST IRON BODY STACK CLEANOUT TEE. TAPER THREAD WITH BRONZE PLUG. NO-HUB PIPE CONNECTIONS ON BOTH ENDS. STAINLESS STEEL ROUND COVER WITH CENTER SCREW FOR USE IN AREAS PUBLIC AREAS. VERIFY INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN.
WATER HAMMER ARRESTER: WHA	J.R. SMITH SERIES 5000 HYDROTROL ENGINEERED WATER HAMMER ARRESTER. LEAD-FREE STAINLESS CONSTRUCTION PLUMBING. CONTRACTOR TO SELECT UNIT FOR SPECIFIC APPLICATION AND FIXTURE UNIT RATINGS.
WALL HYDRANT: WH-1	J.R. SMITH SERIES 5515-WC-CL WALL MIRECESSED GUARDIAN PLUS DUAL CHECK. QUARTER TURN NON-FREEZE HYDRANT WITH AUTOMATIC DRAINING INTEGRAL VACUUM BREAKER, INTEGRAL SERVICE SHUT OFF VALVE AND 1/2" NPSM SUPPLY INLET. ASSEMBLY TO INCLUDE ADJUSTABLE WALL CLAMP. CONTRACTOR TO SELECT LENGTH FOR WALL THICKNESS APPLICATION.
LABORATORY SINK FAUCET AND DRAIN ASSEMBLY: LABS AND PREP ROOMS	FIXTURE - SINK IS INTEGRAL WITH COUNTERTOP. CONTRACTOR IS TO FURNISH AND INSTALL FAUCET AND DRAIN ASSEMBLY. FAUCET - CHICAGO FAUCET MODEL 930-317KXCP, DECK MOUNTED SINGLE HOLE HOT AND COLD WATER MIXING FAUCET WITH VACUUM BREAKER, 6" RIGID/SWING SPOUT, 4" VANDAL PROOF WRISTBLADE HANDLES, FULL FLOW NOZZLE, ATMOSPHERIC VACUUM BREAKER. DRAIN - 1-1/2" ACID RESISTANT SINK STRAINER ASSEMBLY. TRAP - 1-1/2" ACID RESISTANT P-TRAP WITH AIR WASTE ARM AND WALL FLANGE. STOP & SUPPLY RISERS - 1/2" NPS ANGLE WITH FLEXIBLE RISER, LOOSE KEY 1/2 TURN STOPS AND WALL ESCUTCHEONS.
LABORATORY SINK FAUCET AND DRAIN ASSEMBLY: LABS	FIXTURE - SINK IS INTEGRAL WITH COUNTERTOP. CONTRACTOR IS TO FURNISH AND INSTALL FAUCET AND DRAIN ASSEMBLY. FAUCET - CHICAGO FAUCET MODEL 928-317KXCP, DECK MOUNTED SINGLE HOLE COLD WATER FAUCET WITH VACUUM BREAKER, 6" RIGID/SWING SPOUT, 4" VANDAL PROOF WRIST BLADE HANDLES, FULL FLOW NOZZLE, ATMOSPHERIC VACUUM BREAKER. DRAIN - 1-1/2" ACID RESISTANT SINK STRAINER ASSEMBLY. TRAP - 1-1/2" ACID RESISTANT P-TRAP WITH AIR WASTE ARM AND WALL FLANGE. STOP & SUPPLY RIS

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