

Los Angeles Harbor College Campus Standards

(Note: Campus Preferences are indicated first, followed by additional manufacturers which are being considered by LACCD.)

PLEASE READ & FOLLOW THE DIRECTIONS PROVIDED BELOW

The Campus Standards matrix is to be used as a guide. LA Harbor College has a comprehensive design standards which governs the design of any of our projects. In case there is a valid need to deviate from these Standards, a request will need to be submitted in writing to **Director of Campus Facility** and a formal written approval needs to be received from the Director of Campus Maintenance & Operations (M&O) or IT Departments.

This is a living document and updates regularly; therefore, one should check with the M&O Department for the most updated version before proceeding

These design standards are not to be deviated from for the purpose of value engineering unless formally approved by M&O or IT

| STANDARD | | CAMPUS ALTERNATIVES |
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| 1 | DIV. 06: WOOD, PLASTICS AND COMPOSITES | |
| 2 | ARCHITECTURAL CABINETS | |
| 3 | PLASTIC LAMINATE | NEVAMAR, FORMICA, WILSONART, OR EQUAL |
| 4 | CABINET DRAWER GLIDES | ACCURIDE 3832 |
| 5 | CABINET HINGES | ROCKFORD PROCESS CONTROL (RPC) #851 |
| 6 | CABINET LOCKS | BEST 5L SERIES DEADBOLTS AND STRIKES |
| 7 | CABINET MAGNETIC CATCHES | EPCO #591 |
| 8 | CABINET PULLS | TRIMCO 562-4 |
| 9 | CABINET SHELF STANDARDS | KNAPE & VOGT (KV) 255 |
| 10 | DIV. 07: THERMAL & MOISTURE PROTECTION | |
| 11 | ROOFING | |
| 12 | GENERAL | GAF, Johns Manville or Equal |
| 13 | | Modified Bitumen 30-yr Garland, 4-yr ply. Build-up roof multi-ply |
| 14 | | Sarnafli, no single ply. Build-up roof multi-ply (District Standards). |
| 15 | FIREPROOFING | |
| 16 | GENERAL | Monokote, CAFCO |
| 17 | BITUMINOUS DAMPPROOFING | WR MEADOWS, HENRY, CARLISLE COATINGS |
| 18 | SELF-ADHERING SHEET WATERPROOFING | WR GRACE, WR MEADOWS, CARLISLE COATINGS |
| 19 | DIV. 08: OPENINGS | |
| 20 | HARDWARE | |
| 21 | KEYS OF CYLINDER | Schlage Everest R A2 Structure # KS27851 |
| 22 | INTER CHANGEABLE SYLINDERS | 7 Pin IC Core Schlage / CYL 80 036 EV 626 R145 |
| 23 | LEVER LOCKSETS | Schlage "ND" RHODES, L9000-06-626 finish is satin chrome |
| 24 | LOCKSET | Schlage L9000 Series, 06A, 626 Finish. Use Schlage 180 Degree Indicator on Classrooms and Single Use restrooms. |
| 25 | AUTO DOOR CLOSER | LCN BY RBA, |
| 26 | Auto Door Operators | LCN Senior Swing with 3-position ON/OFF/HOLD-OPEN |
| 27 | CABINET LOCKSETS | Olympus, Haworth, HON |

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| 28 CARD READER | Locks: Schlage AD300 x SFIC. Verify locations with owner. Panics: Von Duprin 99 Series with AD300-993 Trim x SFIC. Verify locations with owner. Integrated Electronic Lock, Proximity Reader, Door Contact and Request to Exit/Enter Sensors Red/Green LED to Indicate Electric Lock/Unlock Status. Status Monitor located on inside of lock displays central lockdown status with Red LED. 120VAC – 12/24VDC Power Supply. Panel Interface Board as required (PIB300-TD2 x RLBD) Heavy Duty Key switch (to accept SFIC key cylinder) on inside of rooms selected by Owner for local lockdown and Red/Green status monitoring. |
| 29 30 31 Door Plates | Kick Plates: Ives 8400 Series, 10" H x 2" less than door width, (1"LOW at non-mullion pairs) Push/Pull Plates: Ives 8200 and 8303-8 Series Anti-Vandal Plates: Ives VR900 Serie S |
| 32 Door Seals | National Guard or Pemko |
| 33 Door Stops | Interior: Ives FS436/438 Exterior: Ives FS40 Series Wall Stops: Ives WS401 |
| 34 EXIT DEVICES | VON DUPRIN AX 99 and AX 33A Series. Electrified Devices: Von Duprin QEL type. Heavy Duty Key switch (to accept SFIC key cylinder) on inside of rooms selected by Owner for local lockdown and Red/Green status monitoring. |
| 35 Floor Closer | Do not use without approval from DOCF. |
| 36 Flush Bolts | Ives FB30-FB40-FB50-FB60 Series as required. |
| 37 38 39 40 41 HINGES | Stanley FBB179-4-1/2 X 4-1/2 HAGER, IVES MARKAR 300 SERIES CONTINUOUS: STANLEY 651 X SHIM X EPT PREP, STAINLESS STEEL BUTTS-IVES 3CB1HW SERIES,Ives 3Cb1 at low use interior doors. |
| 42 Hold Open Devices | LCN SEM Series |
| 43 KEY SYSTEMS - FIRE ALARM PANEL | CAT 45 |
| 44 Mullions | Von Duorin KR series with MT54 storage bracket kits. Fire Rated as required |
| 45 MULLION SEAL | Von Duprin KR series with MT54 storage bracket kits. Fire Rated as required |
| 46 OVERHEAD STOPS | Glynn-Johnson 90 series and 100 series. Use only where floor or wall stops are inadvisable. When used, use heavy weight hinges or continuous hinges |
| 47 Padlocks | Schlage KS series for SFIC Schlage Krvotonite KS Series |
| 48 POWER SUPPLY | Von Duprin PS902/904/906/914 as required. Use Key Lock Option, verify combination with Locksmith. |
| 49 REMOVABLE MULLION | Von Duprin KR series with MT54 storage bracket kits. Fire Rated as required |

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| 50 Surface Closers | Exterior LCN 4040XP with EDA Arms at out swinging doors. Interior: LCN 4040XP |
| 51 Thresholds | National Guard or Pemko |
| DOORS | |
| 53 ACCESS DOORS | BAUCO, KARP, JL INDUSTRIES |
| 54 ALUMINUM-FRAMED ENTRANCES & STORE FRONT | KAWNEER COMPANY, CONTINENTAL |
| 55 AUTOMATIC SLIDING ALUMINUM FRAMED GLASS DOORS | STANLEY |
| 56 GLASS ENTRANCES & STOREFRONT | ARCADIA, VISTAWALL |
| 57 HOLLOW METAL DOORS & FRAMES | STEELCRAFT OR ACCEPTABLE ALTERNATE |
| 58 OVERHEAD COILING GRILLES | COOKSON COMPANY, PACIFIC ROLLING DOORS, OVERHEAD DOOR |
| 59 SLIDING METAL FIRE DOOR | SMOKE GUARD |
| 60 WOOD DOOR | GRAHAM, HALEY BROTHERS, EGGERS INDUSTRIES |
| RESTROOM ENTRY DOORS | |
| 62 HOLLOW METAL DOORS, MINIMUM REQUIREMENTS | STEELCRAFT |
| 63 HOLLOW METAL FRAMES, MINIMUM REQUIREMENTS | 14 GAUGE COLD ROLLED STEEL BY STEELCRAFT |
| 64 MARBLE THRESHOLDS AT TOILET ROOM ENTRANCES | GROUP "A" MARBLE AS CLASSIFIED BY THE MARBLE INSTITUTE OF AMERICA |
| 65 METAL DOOR LOUVERS (AT NON-RATED OPENINGS) | ANEMOSTAT PLSL LOUVER |
| WINDOWS | |
| 67 ALUMINUM WINDOWS | ANDERSEN |
| 68 DECORATIVE FILMS | 3M, LLUMAR/VISTA, METROPOLITAN WEST |
| DIV. 09: FINISHES | |
| FLOOR/ WALL FINISHES | |
| 71 CARPET | TANDUS (DISTRICT CONTRACT IN EFFECT) mold and mildew resistant |
| 72 CARPET MODULES | 24x24 or 36X36 TANDUS (DISTRICT CONTRACT IN EFFECT) MOLD AND MILDEW RESISTANT |
| 73 EPOXY FLOORING-(EXTERIOR) | NEOGARD |
| 74 FIBERGLASS REINFORCED PLASTIC PANELS | MARLITE |
| 75 FLOOR MATS/WALK-OFF MATS | TANDUS (DISTRICT CONTRACT IN EFFECT) |
| 76 GRAFFITI RESISTANT COATINGS | PERMASHIELD PREMIUM OR GENESIS COATING |
| 77 GRAFFITI RESISTANT FILM | 3M, JOHNSON WINDOW FILMS |
| 78 HARD SURFACE (GYMNASIUM) | MONDO, |
| 79 HIGH PERFORMANCE COATINGS | Dunn Edwards , ICI, Dulux, Scuffmaster BY Master Coating Technologies |
| 80 PAINT | Dunn Edwards , ICI, Dulux, Vista Paint |
| 81 PORCELAIN TILE-CERAMIC | Specific to design standard with installation floor to ceiling |
| 82 RAISED FLOORING SYSTEMS | Access Floor Co. |
| 83 RESILIENT FLOORING | Armstrong, Mannington |
| 84 RESILIENT TILES/SHEET FLOORING | Armstrong, Medintech, KYA Group |
| 85 RESINOUS FLOORING-EPOXY | STONHARD, CROSSFIELD PRODUCTS, TNEMEC |
| 86 VCT | Johnsonite, Armstrong, |

| STANDARD | | CAMPUS ALTERNATIVES |
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| 87 | WALL BASE | Johnsonite, Armstrong, Mannington, Roppe, Burke |
| 88 | WALL COVERINGS | Dunn Edwards, Vista Paint |
| 89 | CERAMIC TILES AND TILING | |
| 90 | GENERAL | DAL TILES |
| 91 | TERRAZZO/MARBLE TILES | FRITZTILE OR EQUAL |
| 92 | CEMENTITIOUS GROUT (FLOOR TILE) | LATICRETE® PERMACOLOR™, OR APPROVED EQUAL. |
| 93 | EPOXY GROUT (FLOOR AND WALL TILE) | LATICRETE® SPECTRALLOCK® PRO PREMIUM GROUT, OR APPROVED EQUAL. |
| 94 | FLOOR TILE | DALTILE, OR APPROVED EQUAL. |
| 95 | SEALER | WALL TILE AND GROUT SHALL BE SEALED WITH A GRAFFITI RESISTANT, WATERBORNE URETHANE-SILICONE POLYMER COATING, NON-TOXIC, LOW VOC, NON-SACRIFICIAL, MOLD AND MILDEW RESISTANT, TRANSPARENT, UV RESISTANT, AND ABRASION RESISTANT. "SANIGLAZE PROCESS" SYSTEM (WWW.SANIGLAZE.COM) |
| 96 | WALL TILE | DALTILE, OR APPROVED EQUAL. |
| 97 | WATERPROOF MEMBRANE | LATICRETE® HYDRO BARRIER™ |
| 98 | EXTERIOR PLASTER | LA HABRA, HIGHLAND |
| 99 | CEILING SYSTEMS | |
| 100 | ACOUSTICAL TILE | ARMSTRONG, USG |
| 101 | GRID SYSTEM | Armstrong, |
| 102 | ACOUSTICAL SUSPENSION SYSTEM - acoustic treatment | ARMSTRONG, USG OR CHICARGO METALLIC CO, |
| 103 | SOUND ABSORBING UNITS | AcoustiColor, ARMSTRONG, ROCKFON |
| 104 | INTERIOR SUSPENDED LIGHTS | LED PER DISTRICT STANDARDS |
| 105 | WALL & CEILING ACCESS DOORS | SQUARE OR RECTANGULAR FRAMES WITH HINGED LOCKED DOOR |
| 106 | DIV. 10: SPECIALTIES | |
| 107 | SOAP DISPENSERS | BOBRICK B-8226 |
| 108 | PAPER TOWEL DISPENSERS | BOBRICK MODEL B-262 Classic Series, |
| 109 | PAPER TOWEL DISPENSERS (AT STAFF/FACULTY RESTROOMS ONLY) | BOBRICK MODEL B-2860 SURFACE MOUNTED ROLL TOWEL DISPENSER |
| 110 | TOILET PAPER DISPENSER | JUMBO, BOBRICK MODEL B-4388 RECESSED MULTI ROLL TOILET TISSUE DISPENSER |
| 111 | BATHROOM PARTITIONS | BOBRICK SIERRASERIES® WATER-AND FIRE-RESISTANT SOLID COLOR REINFORCED COMPOSITE TOILET PARTITIONS AND URINAL SCREENS, ORBOBRICK DURALINE SERIES 1080 |
| 112 | DIAPER-CHANGING STATION | KOALA KARE PRODUCTS MODEL KB-110-SSWM HORIZONTAL WALL MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION |
| 113 | FOLDING SHOWER SEATS | BOBRICK MODEL B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT |
| 114 | GRAB BARS | BOBRICK 1½" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE, SATIN FINISH, B-6806 SERIES, OR APPROVED EQUAL. (DO NOT USE L-SHAPED TWO-WALL GRAB BARS.) |

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| 115 | HAND DRYER | Xlerator (ADA compliant), Dyson Air Blade |
| 116 | KEYING FOR TOILET ACCESSORIES | BOBRICK KEY #2055 |
| 117 | LAVATORY SINK (COUNTERTOP): | AMERICAN STANDARD MODEL 0476.028 AQUALYN™ VITREOUS CHINA COUNTERTOP SINK |
| 118 | LAVATORY SINK (WALL-HUNG, WHERE REPLACING EXISTING WALL-HUNG LAVATORY) | 4" CENTERSET WITH CONCEALED ARM CARRIERS: AMERICAN STANDARD LUCERNE MODEL 0355.012, OR KOHLER KINGSTON K- 2005-0 |
| 119 | MIRRORS (FRAMED) | BOBRICK B-290 SERIES, 18" X 36" |
| 120 | RESTROOM ACCESSORIES | BOBRICK, Xlerator |
| 121 | SANITARY NAPKIN DISPOSALS | RECESSED SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B-353, OR APPROVED EQUAL / PARTITION-MOUNTED SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B-354 |
| 122 | SHOWER CURTAIN HOOKS | BOBRICK MODEL 204-1 STAINLESS STEEL SHOWER CURTAIN HOOK, OR APPROVED EQUAL. |
| 123 | SHOWER CURTAIN RODS | BOBRICK MODEL B-6107 HEAVY-DUTY SHOWER CURTAIN ROD, OR APPROVED EQUAL. |
| 124 | SHOWER CURTAINS | BOBRICK MODEL 204-3 VINYL SHOWER CURTAIN |
| 125 | SHOWER SOAP DISH | BOBRICK MODEL B-4390 RECESSED HEAVY-DUTY SOAP DISH WITH BAR |
| 126 | TOILET SEATS | BEMIS MODEL 1955CT, OR APPROVED EQUAL. SEATS SHALL BE HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC. SEATS SHALL BE OPEN FRONT LESS COVER FOR ELONGATED BOWL AND FEATURE LARGE MOLDED-IN BUMPERS. |
| 127 | UNDERSINK PIPING COVERS AT ACCESSIBLE LAVATORIES AND SINKS WITH HOT WATER, ON HOT WATER SUPPLY PIPING AND DRAINS, COMPLYING WITH ADA AND CBC ACCESSIBILITY REGULATIONS. | TRUEBRO® LAV GUARD®2 |
| 128 | UTILITY SHELF | BOBRICK MODEL B-298 STAINLESS STEEL SHELF, 24" MINIMUM LENGTH X 8" DEPTH, OR APPROVED EQUAL. |
| 129 | WALL HOOKS (AT TOILET STALLS, AND BELOW OR ADJACENT TO UTILITY SHELVES) | BOBRICK MODEL B-671 SURFACE-MOUNTED SINGLE ROBE HOOK, BRIGHT POLISHED STAINLESS STEEL |
| 130 | WASTE RECEPTACLES (AT STAFF/FACULTY RESTROOMS ONLY) | BOBRICK MODE B-3644 RECESSED WASTE RECEPTACLE |
| 131 | MISC. SPECIALTIES | |
| 132 | EMERGENCY RESPONDER LOCK BOX | KNOX BOX 3200 SERIES |
| 133 | FLEXIBLE BOLLARDS | RELIANCE FOUNDRY, BC CANADA |
| 134 | LOCKERS | LYON METAL PRODUCTS, REPUBLIC, PENCO |
| 135 | MARKER BOARD | ABC SCHOOL SUPPLIES, EGAN VISUAL, ADP LEMCO |
| 136 | OPERABLE PARTITIONS | WON DOOR , HUF COR AIRWALL |
| 137 | REMOVABLE STEEL BOLLARD | CALPIPE SECURITY BOLLARDS |
| 138 | STORAGE/TRANSFER | Tyga-Box System or EQUAL |
| 139 | TACKBOARDS | ABC SCHOOL SUPPLIES, ADP LEMCO |
| 140 | WALL AND CORNER GUARDS | CONSTRUCTION SPECIALTIES, INC., BALCO, PAWLING, |
| 141 | FIRE EXTINGUISHERS/ CABINET W/LOCKS | |
| 142 | GENERAL | J.L. INDUSTRIES (KEY # LL24), POTTER-ROEMER |

| STANDARD | CAMPUS ALTERNATIVES |
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| SIGNAGE/WAYFINDER | |
| 143 Interior Building Signs | See Current Standards |
| 144 Exterior and Architectural Signs | See Current Standards |
| 145 Pedestrian and MapSigns/Display | See Current Standards |
| 146 Roadway, Vehicular and Parking Signage | See Current Standards |
| 147 Room Signs | See Current Standards |
| DIV. 11: EQUIPMENT | |
| 149 FOOD SERVICE EQUIPMENT | Wolf |
| 150 KITCHEN, APPLIANCES | Kitchen Aid, Samsung, GE, Whirlpool |
| 151 PROJECTION SCREENS | DA-LITE |
| 152 PROJECTOR MOUNTS | CHIEF MAUNFACTURING OR EQUAL |
| DIV. 12: FURNISHINGS | |
| 153 WINDOW SHADES | MECHO-SHADE CORP, NO BLINDS |
| 154 METAL LAB CASEWORK | KEWAUNEE SCIENTIFIC, HANSON, HAMILTON |
| 155 LAMINATED CASEWORK | KEWAUNEE SCIENTIFIC, HANSON, HAMILTON |
| 156 WOOD LAB CASEWORK | KEWAUNEE SCIENTIFIC, HANSON, HAMILTON |
| BLEACHERS | |
| 159 INTERIOR, GYMNASIUM | Irwin Telescopic, KYA System |
| 160 EXTERIOR, GYMNASIUM, STADIUM | Studisteel, Southern Bleacher Company, KYA System |
| WINDOW COVERING | |
| 161 SOLAR SHADE | Mecho Shade |
| BIKE RACK | |
| 162 GENERAL | PARK A BIKE, WASSAU MADE BY WASSAU TILE INC. |
| DIV. 14: CONVEYING EQUIPMENT | |
| 163 STANDARD ELEVATORS | Mitsubishi, Schindler; OTIS |
| 164 CONTROLLER | MOTION CONTROLS.....CONTROLLER CANNOT BE PROPRIETARY |
| 165 ELEVATOR DOORS Graffiti proof interior | GAL DOOR EQUIPMENT |
| 166 ELEVATOR CAB LIGHT FIXTURE | LED |
| 167 WHEELCHAIR LIFTS | GARAVENTA |
| 168 EXIT STAIR EVACUATION CHAIRS | Garaventa EVACU-TRAC CD7 or better |
| 169 HYDRAULIC ELEVATORS-PASSENGER | Mitsubishi, Schindler; OTIS |
| 170 HYDRAULIC ELEVATORS-FREIGHT | Mitsubishi, Schindler; OTIS |
| 171 DUMBWAITER | MATOT |
| DIV. 21: FIRE SUPPRESSION | |
| 172 VALVES | RELIABLE |
| 173 FIRE PROTECTION EQUIPMENTS | TYCO, VIKING |
| 174 FIRE DEPARTMENT CONNECTIONS | POTTER-ROEMER, CROKER |
| 175 POST INDICATOR VALVES | CLOW, MUELLER |
| 176 FLOW AND TEMPER SWITCHES | NOTIFIER, POTTER ELECTRIC |
| 177 FIRE HYDRANTS | CLOW VALVE, RICH VALVE, James Jones |
| DIV. 22: PLUMBING | |
| PIPE | |
| 178 DOMESTIC / POTABLE | C900 Blue, Copper K, #80 PVC |
| 179 UNDERGROUND IRRIGATION PIPING | Schedule 40 and schedule 80 PVC 1/2" to 3" CVPC clorinated polyvinyl |
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| STANDARD | | CAMPUS ALTERNATIVES |
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| 187 | UNDERGROUND SANITARY PIPING | CAST IRON, SDR-35 ASTM A888, CISPI 301 |
| 188 | ABOVE GROUND SANITARY PIPING | Cast Iron Tyler Pipe /DWV Copper |
| 189 | PIPE TUBING AND FITTINGS | C-900 Mega Lug FTGs Approved CI Conn Flange |
| 190 | STEEL PIPE FUEL GAS/NATURAL GAS | Black Schedule 40 indOor only with similar fittings |
| 191 | STEEL PIPE WATER OR AIR | Galvanized Domestic only - No Substitute, or black schedule 40 |
| 192 | BRASS PIPE | Red Brass, Schedule 40 lead free |
| 193 | COPPER TUBING | Type "K" below grade or Type "L" above grades only, No "M", No substitutes |
| 194 | BRASS SCHEDULE 40 SOLDER JOINT FTG's | Domestic |
| 195 | SCREWED FITTINGS | Domestic |
| 196 | GAS PIPING UNDERGROUND | Polyethylene Pipe, Steel transition, yellow tracer wire, Butt fusion or socket |
| 197 | BUILDING DRAIN, WASTE & VENT | Cast iron no hub, no hub couplings, Cast Iron, Ftgs. / DWV Copper ANANCO, Tyler MS coupling, PVC Standard ASTM D2661-87 |
| 198 | PIPE AND FITTINGS | Standard D2751-88 Cast iron, no hub pipe and fittings, waste, silver solder for 2 inch or above pipe. |
| RESTROOM PLUMBING FIXTURES | | |
| 200 | ANGLE STOP FITTING WITH LOOSE KEY | CHICAGO FAUCETS MODEL 1013-ABCP. |
| 201 | AUTOMATIC FLUSH VALVES, HARD-WIRED | SLOAN #111-1.28-ES-S-YO |
| 202 | FLOOR DRAINS WITH ADJUSTABLE STRAINER HEADS | J R. SMITH MFG. CO. MODEL 2005Y (ROUND TOP), |
| 203 | LAVATORY FAUCET AND DRAIN (RESTROOM LAVATORIES SHALL BE SUPPLIED WITH HOT AND COLD WATER) | A. HOT AND COLD WATER SINK FAUCET: CHICAGO FAUCETS MODEL 802-VABCP, |
| 204 | | B. SINGLE SUPPLY METERING SINK FAUCET: CHICAGO FAUCETS MODEL 3400-ABCP, |
| 205 | | C. HOT AND COLD WATER MIXING METERING SINK FAUCET: CHICAGO FAUCETS MODEL 857- 665PSHABCP, |
| 206 | | 1. CONCEALED MECHANICAL MIXING VALVE: CHICAGO FAUCETS MODEL 242.165.AB.1, |
| 207 | | D. DRAIN GRID STRAINER WASTE: CHICAGO FAUCETS MODEL 327-XCP |
| 208 | SHOWER FAUCETS AND HEADS | A. ACCESSIBLE SHOWERS: SYMMONS TEMPTROL II™ (2000 SERIES) SHOWER SYSTEM WITH HAND SPRAY, MODEL 25-500-B30-V, |
| 209 | | B. NON-ACCESSIBLE SHOWERS: SYMMONS 2000™ SERIES SHOWER SYSTEM (INCLUDES CLEAR- FLO SHOWER HEAD WITH ARM AND FLANGE), MODEL 25-1, |
| 210 | | C. PROVIDE A SHUT-OFF VALVE IN A STAINLESS STEEL RECESSED WALL VALVE BOX WITH 1/8" ALLEN HEAD CAM LATCH, FOR EACH MANIFOLD SUPPLYING SHOWERS. MILCOR VERSATILE VALVE BOX IN SIZE AS DETERMINED BY ARCHITECT. |
| 211 | TOILET FIXTURES (Low Flow, Vitreous China) | American Standard, Kohler |
| 212 | SINKS | American Standard, Kohler |
| 213 | Stop Fittings | Chicago Faucets model 1013-ABLP |
| 214 | KITCHEN SINKS | Elkay, Koler, Stainless steel |
| 215 | SERVICE SINKS | Koler, Chicago |

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| 216 | URINALS (Low Flow) | Sloan |
| 217 | URINALS (Waterless) | DO NOT USE |
| 218 | FAUCETS | Chicago-automatic or manual only |
| 219 | FLUSH VALVES - TOILETS, URINALS | Sloan only - manual or sensor |
| 220 | DOMESTIC WATER HEATER | Rheem, A.O. Smith, Bradford White |
| 221 | CIRCULATING PUMP | Bell and Gossett, Grundfos with equal times |
| 222 | PLUMBING VALVES AND ACCESSORIES | |
| 223 | GENERAL | Nibco or equal domestic product only, lead free where applicable |
| 224 | BACKFLOW PREVENTERS | Watts/FEBCO, ZURN/Wilkins |
| 225 | BACKWATER VALVES | ZURN |
| 226 | BALL VALVES | MIBCO (Brass, Full Port) Acorn |
| 227 | BOILER | RAYPACK, LOCHINVAR |
| 228 | CHECK VALVES | NIBCO (Brass), FEBCO |
| 229 | CHECK VALVES FOR 4" OR LARGER LINE | MILWAUKEE, ZURN, COMBRACO |
| 230 | CLEAN OUTS | J.R. Smith, NIBCO |
| 231 | DRAIN PUMPS | SWABY, PACO, PEERLESS, WEIL |
| 232 | DRAINAGE SYSTEMS | ZURN, J. R. SMITH MFR CO |
| 233 | ELECTRIC SELF-REGULATING T&M CABLE | RAYCHEM CORP. THERMON COMMERCIAL PROD. DIVISION |
| 234 | EMERGENCY EYEWASH & SHOWERS | Watersaver, Haws, Encon, Bradley |
| 235 | EXPANSION TANKS | AMTROL, Bell and Gossett, Watts |
| 236 | FLOOR DRAINS | J.R. Smith, ZURN, MIFAB |
| 237 | GATE VALVES | NIBCO (Union Bonnet, Raised Stem) Acorn |
| 238 | GLOBE VALVES | NIBCO (Brass) |
| 239 | HOSE BIBB BOX | ACORN ENG #8140/8102, STAINLESS STEEL RECESSED W. LOOSE KEY HANDELS, DOOR. |
| 240 | PISTON WATER HAMMER | MIFAB MWA Series |
| 241 | ROOF DRAINS | J R SMITH, ZURN |
| 242 | TRAP PRIMERS | SIOUX CHIEF, Automatic or connect to flush valve |
| 243 | TRENCH -FUNNEL DRAINS | STOCKHAM VALVES & FITTINGS CO., NIBCO |
| 244 | VALVES(WATER, BELOW GROUND) | STOCKHAM (Cast Iron Flanged AWWA with operating unit) |
| 245 | WATER FOUNTAINS | |
| 246 | DRINKING | Haws, HalsyTaylor, Bobrick |
| 247 | DIV. 23: HEATING, VENTILLATION & AIR CONDITIONING (HVAC) | |
| 248 | A/C UNITS, ROOF MOUNTED | York, Trane |
| 249 | A/C UNITS WALL MOUNTED | Bard, Trane, Carrier |
| 250 | AIR HANDLERS – CUSTOM | Temtrol, Trane, Energy Labs |
| 251 | AIR HANDLERS | Carrier, York, Trane |
| 252 | HVAC HYDRONIC CONTROL VALVE | Belimo, two way |
| 253 | HVAC HEATING & COOLING CONTROL VALVE | Belimo PICCV two way with reserving switch |
| 254 | HVAC HYDRONIC PIPE FLANGE ADAPTER CONNECTIONS | OMNI |
| 255 | MOTORS | Baldor, GE, Dayton, Baltimore |
| 256 | PUMPS | PACO, Bell & Gossett, TACO |
| 257 | COOLING TOWERS | Marley |

| STANDARD | | CAMPUS ALTERNATIVES |
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| 258 | OTHER FILTERS | American Fan, Triden Filtering Sys, 3M, Florence Filter |
| 259 | BOILER CONTROLS-HOT WATER | Alertron Controls |
| 260 | FAN COILS DX | Carrier, York, Trane |
| 261 | COMPUTER ROOM AC UNITS | Data Aire |
| 262 | | Dedicated BMS controlled,inverter air-conditioning for IDF rooms |
| 263 | CHILLED WATER FAN COILS | Carrier, York,Trane |
| 264 | AIR COOLED CHILLER | CARRIER |
| 265 | CENTRIFUGAL WATER-COOLED CHILLER | CARRIER |
| 266 | SCREW-TYPE AIR COOLED CHILLER | CARRIER |
| 267 | SCREW-TYPE WATER COOLED CHILLER | CARRIER |
| 268 | SCROLL-TYPE AIR COOLED CHILLER | CARRIER |
| 269 | CHILLER-GENERAL | CARRIER |
| 270 | ABSORBTION CHILLER | BROAD |
| 271 | OTHER ABSORBTION CHILLER | BROAD |
| 272 | VENTILATORS AND EXHAUST FANS | Cook, Greenheck |
| 273 | FIRE SMOKE DAMPER | Belmo w/ end switch to communicate to EMS |
| 274 | VARIABLE FREQUENCY DRIVES | ABB |
| 275 | HYDRONIC PIPING | Carbon Steel, Sch 80, Insulated PVC Perma Pipe, Thermacor , stainless steel bolts on all couplings |
| 276 | AIR CONIDITIONING THERMOSTAT | ALERTON Total Line 3-heating / 2 cool/heat pump/digital 7 day programable PIN P 374-2800 |
| 277 | THERMOSTAT LOCK BOX | Honeywell Large Opaque / PINTG 512B1007 |
| 278 | | Alertron , White Roger |
| 279 | MORTOR CONTROLS | Square D |
| 280 | DIV. 25: INTEGRATED AUTOMATION | |
| 281 | ENERGY MANAGEMENT SYSTEM | ALERTON-CLIMATECH (SOLE-SOURCE) |
| 282 | DIV. 26: ELECTRICAL | |
| 283 | RESTROOM ELECTRICAL FIXTURES | |
| 284 | KEYED LIGHT SWITCHES | HUBBELL HBL EXTRA HEAVY DUTY INDUSTRIAL LOCKING SERIES, BACK AND SIDE WIRED 15A, 120-277V AC; OR LEVITON EXTRA HEAVY DUTY SPECIFICATION GRADE KEY LOCKING SWITCHES. |
| 285 | LIGHT FIXTURES | A. VANDAL-RESISTANT CONSTRUCTION PREFERRED. |
| 286 | | B. LISTED FOR DAMP OR WET LOCATIONS. |
| 287 | | C. LAMPING: LED |
| 288 | LIGHTING/INDOOR-OUTDOOR | |
| 289 | INTERIOR LIGHT FIXTURES(LED), No Fluoresces and incandesce light fixture | PRUDENTIAL, LITHONIA, HE WILLIAMS, LIGHTOLIER - MEET ENERGY STAR REQUIRMENTS (LED) |
| 290 | INTERIOR SUSPENDED LIGHTS | PRUDENTIAL, LITHONIA, PHILIPS - LED WITH 10 YRS WARRANTY ON LED AND DRIVER |
| 291 | VANDAL PROOF LIGHTING FIXTURES | LED WITH 10 YRS WARRANTY ON LED AND DRIVER, RUUD/CREE, STANCO |
| 292 | CONNECT WITH EMERGENCY LIGHTS | ALERTRON TO EMERGENCY GRID |
| 293 | EXTERIOR LIGHTS | LED |
| 294 | PARKING LOT | LED |
| 295 | ATHLETIC FIELD | MUSCO |
| 296 | LIGHT SENSORS | "WATT STOPPER", LEVITON, LUTRON |

| STANDARD | CAMPUS ALTERNATIVES | |
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| 297 | ELECTRICAL FIXTURES | |
| 298 | ELECTRONIC WIRELESS WALL CLOCKS | PRIMEX |
| 299 | EXIT SIGNS | LED |
| 300 | GENERAL LIGHT SWITCHES | LEVITON, HUBBELL |
| 301 | GENERAL RECEPTACLES | LEVITON, HUBBELL |
| 302 | GENERAL SAFETY SWITCHES | GE |
| 303 | LIGHTING CONTROL PANELS | LUTRON ECO |
| 304 | TIME CLOCKS - TIME SWITCHES | INTERMATIC |
| 305 | STORAGE/TRANSFER | HP, DELL, SIEMEN'S, CISCO...SEE I.T. STANDARDS |
| 306 | ELECTRICAL EQUIPMENT | |
| 307 | HIGH & MEDIUM VOLTAGE TRANSFORMERS | STANDARD GENERAL DRY-TYPE-SQUARE D |
| 308 | LOW VOLTAGE & TELECOM CONDUCTORS | APPROVED NEC COPPER CONDUCTORS ONLY-THHN/THWN |
| 309 | LOW VOLTAGE TRANSFORMERS | SQUARE D, GE |
| 310 | SECONDARY DISTRIBUTION CONDUCTOR | APPROVED NEC COPPER CONDUCTORS ONLY-THHN/THWN |
| 311 | MAIN SWITCHBOARD | G.E., CUTLER-HAMMER, SELECTION TO MATCH EXISTING |
| 312 | MAIN DISTRIBUTION SWITCHBOARDS | G.E., CUTLER-HAMMER, SELECTION TO MATCH EXISTING |
| 313 | DRY TYPE TRANSFORMERS | WESTINGHOUSE, GE, CUTLER-HAMMER |
| 314 | MAGNETIC MOTOR STARTERS | GE, CUTLER-HAMMER |
| 315 | SOFT START MOTOR STARTERS | CUTLER HAMMER |
| 316 | PANELBOARDS | GE, CUTLER-HAMMER |
| 317 | MCC (MOTOR CONTROL CENTERS) | SQUARE D |
| 318 | VARIABLE FREQUENCY DRIVES | ABB |
| 319 | TEERMINAL AIR UNITES VAV | TITUS, KRUEGER |
| 320 | ELECTRICAL FINISH FACE PLATES | STAINLESS FINISH PLATES |
| 321 | ELECTRIC VEHICLES/ CHARGERS | |
| 322 | ELECTRICAL VEHICLES AND CHARGERS | TAYLOR DUNN, CLUB CAR, YALE CHASE, TOYOTA |
| 323 | CHARGER Mfr | TAYLOR DUNN, GE, BOSCH, YALE CHASE, TOYOTA, CLUB CAR |
| 324 | EMERGENCY POWER SYSTEM-GRID MATRIX | |
| 325 | CONNECT WITH SUMP PUMPS | ALERTRON TO EMERGENCY GRID |
| 326 | CONNECT WITH CO2 SENSORS | ALERTRON TO EMERGENCY GRID |
| 327 | CONNECT WITH EMS/CMMMS | ALERTRON TO EMERGENCY GRID |
| 328 | EMERGENCY MANAGEMENT SYSTEM | |
| 329 | EMERGENCY MANAGEMENT SYSTEM | ALERTON-CLIMATECH |
| 330 | ENERGY MANAGEMENT SYSTEM | ALERTON-CLIMATECH |
| 331 | Emergency Phone | CALL-24 Call Wireless |
| 332 | Elevator Phone | VoIP System per Campus Standards |
| 333 | FIRE PROTECTION | |
| 334 | ELECTRONICS | EDWARDS EST4 |
| 335 | EMERGENCY POWER SYSTEMS | |
| 336 | GENERATORS | ONAN, CATERPILLAR, KOHLER, CUMMINS (MUST HAVE DPF WITHIN 100M OF K-12) |
| 337 | UPS | SCHNEIDER ELECTRIC, EATON, MYERS POWER SYSTEMS |

| STANDARD | | CAMPUS ALTERNATIVES |
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| 338 | DIV. 27: COMMUNICATIONS | |
| 339 | Data Center Server Enclosures | Using most current LACCD IT Standards with confirmation by College IT Manager prior to placing the order |
| 340 | IDF Data Enclosures | |
| 341 | Network Cabling Systems | |
| 342 | 27 05 00 COMMON RESULTS FOR COMM | |
| 343 | Structured Cabling System Warranty | MINIMUM 25 YEAR WARRANTY |
| 344 | 27 05 26 GROUNDING & BONDING | |
| 345 | | Using most current LACCD IT Standards with confirmation by College IT Manager prior to placing the order |
| 346 | 27 05 28 PATHWAYS FOR COMM SYSTEMS | |
| 347 | Hangers & Cable Ties | Using most current LACCD IT Standards with confirmation by College IT Manager prior to placing the order |
| 348 | Cable Tray | |
| 349 | Air Blown Fiber System (ABF) | |
| 350 | IDF Data Enclosures | |
| 351 | 27 11 00 COMM EQUIP. ROOM FITTINGS | |
| 352 | Ladder Racks | Using most current LACCD IT Standards with confirmation by College IT Manager prior to placing the order |
| 353 | Equipment Racks | |
| 354 | Wall-Mounted Cabinets | |
| 355 | Horizontal Managers | |
| 356 | Fiber Optic Terminals (FOT's)-Housing | |
| 357 | Fiber Terminal Adapters and Connectors | |
| 358 | Patch panels | |
| 359 | Cable Tags & Splice Labels | |
| 360 | 27 13 00 COMM BACKBONE CABLING | |
| 361 | Copper OSP Cable | Using most current LACCD IT Standards with confirmation by College IT Manager prior to placing the order |
| 362 | Splice Cases - Outside | |
| 363 | Splice Cases - Inside | |
| 364 | Splice Bay & Relay Labels | |
| 365 | 27 15 00 COMM HORIZONTAL CABLING | |
| 366 | Station Cabling | Using most current LACCD IT Standards with confirmation by College IT Manager prior to placing the order |
| 367 | Jacks | |
| 368 | Faceplates | |
| 369 | 27 40 00 AUDIO VISUAL | |
| 370 | CONTROL SYSTEM | Using most current LACCD IT Standards with confirmation by College IT Manager prior to placing the order |
| 371 | PROJECTOR | |
| 372 | DOCUMENT CAMERA | |
| 373 | MICROPHONE | |
| 374 | NETWORK SWITCH | |
| 375 | CLASSROOM LIGHTING CONTROL | |
| 376 | PC COMPUTERS | |
| 377 | NETWORK DATA SWITCHES | |
| 378 | DIV. 28: ELECTRONIC SAFETY & SECURITY | |
| 379 | 28 10 00 ELECTRONIC ACCESS CONTROL | |
| 380 | CARD READER | HID Global 920PMPTEKEA007, 921PMPTEKEA008, 910PMPTEKEA007 (use OSDP communication only) |

| STANDARD | | CAMPUS ALTERNATIVES |
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| 381 | CREDENTIALS | HID Global 5006PGGAN with LACCD Corporate 1000 Format: H800003 |
| 382 | ACCESS CONTROL CABLE | Belden 658GMS |
| 383 | ACCESS CONTROL PANEL | Lenel LNL-X4420 |
| 384 | POWER SUPPLY | LifeSafety Power FPO150/250-3D8P2M8NL4E8M2/P16 with BDM |
| 385 | DOOR POSITION SENSOR | Schlage 7764 |
| 386 | LOCKDOWN BUTTON | STI SS2026LD-EN with 6/18 cable to Access Control Panel |
| 387 | ACCESS CONTROL SYSTEM | Lenel OnGuard Enterprise |
| 28 20 00 ELECTRONIC SURVEILLANCE | | |
| 389 | System Server | GENETEC |
| 390 | TV Panels | Samsung |
| 391 | CCTV | PANASONIC- DIGITAL IP; Axis Communication 8+ Megapixel |
| FIRE ALARM SYSTEM | | |
| 393 | GENERAL | Edwards (EST 4) with Mass Notification |
| 394 | FIRE ALARM PULL STATION | EST CAT 45 KEY |
| 395 | SPEAKER/STROLL AMBER ALERT | EDWARDS W/ MASS NOTIFICATION |
| DIV. 32: EXTERIOR IMPROVEMENTS | | |
| IRRIGATION SYSTEMS | | |
| 398 | IRRIGATION CONTROLLLER | CALSENSE-CS3000 |
| 399 | IRRIGATION - Sprinkler Heads | HUNTER |
| 400 | IRRIGATION SYSTEMS | CALSENSE-CS3000 |
| 401 | CONTROLLER REMOTE SITE MANAGEMENT | CALSENSE |
| 402 | CONTROLLER HAND-HELD REMOTE CONTROL | CALSENSE |
| 403 | RAIN SENSOR | CALSENSE |
| 404 | CONTROL WIRE - COMMON | Paige P7001D 12 AWG White |
| 405 | CONTROL WIRE - HOT | Paige P7001D 14 AWG Colored |
| 406 | MASTER VALVE | SUPERIOR- (Brass) with a Brass ball valve for each unit |
| 407 | FLOW SENSOR | CAL SENSE |
| 408 | ELECTRIC CONTROL VALVE | SUPERIOR- (Brass) with a Brass ball valve for each unit |
| LANDSCAPE DESIGN | | |
| 410 | LARGE TREES | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGETATION |
| 411 | MEDIUM TREES PRIMARILY FOR SHADE | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGETATION |
| 412 | SMALL TREES FOR FLOWERS & FRAGRANCE | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGETATION |
| 413 | PALMS | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGETATION |
| 414 | SHRUBS INACTIVE AREAS | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGETATION |
| 415 | SHRUBS IN IRRIGATED AREAS | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGETATION |