

**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
1	<b>DIV. 06: WOOD, PLASTICS AND COMPOSITES</b>	
2	<b>ARCHITECTURAL CABINETS</b>	
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	<b>DIV. 07: THERMAL &amp; MOISTURE PROTECTION</b>	
11	<b>ROOFING</b>	
12		
13	GENERAL	Modified Bitumen 30-yr Garland, 4-yr ply. Build-up roof multi-ply or Equal
14		
15	<b>FIREPROOFING</b>	
16	GENERAL	Monokote, CAFCO
17	BITUMINOUS DAMPPROOFING	WR MEADOWS, HENRY, CARLISLE COATINGS
18	SELF-ADHERING SHEET WATERPROOFING	WR GRACE, WR MEADOWS, CARLISLE COATINGS
19	<b>DIV. 08: OPENINGS</b>	
20	<b>HARDWARE</b>	
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

STANDARD	CAMPUS ALTERNATIVES
28 <b>CARD READER</b>	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
<b>DOORS</b>		
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
<b>RESTROOM ENTRY DOORS</b>		
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
<b>WINDOWS</b>		
67	ALUMINUM WINDOWS	ANDERSEN
68	DECORATIVE FILMS	3M, LLUMAR/VISTA, METROPOLITAN WEST
<b>DIV. 09: FINISHES</b>		
<b>FLOOR/ WALL FINISHES</b>		
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, Vista
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	
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
87 WALL BASE	Johnsonite, Armstrong, Mannington, Roppe, Burke
88 WALL COVERINGS	Dunn Edwards, Vista Paint
<b>CERAMIC TILES AND TILING</b>	
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	DAL TILE, 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	DAL TILE, OR APPROVED EQUAL.
97 WATERPROOF MEMBRANE	LATICRETE® HYDRO BARRIER™
98 EXTERIOR PLASTER	LA HABRA, HIGHLAND
<b>CEILING SYSTEMS</b>	
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	AcustiColor, ARMSTRONG, ROCKFON
104 INTERIOR SUSPENDED LIGHTS	LED PER DISTRICT STANDARDS
105 WALL & CEILING ACCESS DOORS	SQUARE OR RECTANGULAR FRAMES WITH HINGED LOCKED DOOR
<b>DIV. 10: SPECIALTIES</b>	
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.)

	<b>STANDARD</b>	<b>CAMPUS ALTERNATIVES</b>
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)	SENTRY MIRROR, 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	<b>MISC. SPECIALTIES</b>	
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	<b>FIRE EXTINGUISHERS/ CABINET W/LOCKS</b>	
142	GENERAL	J.L. INDUSTRIES (KEY # LL24), POTTER-ROEMER

STANDARD	CAMPUS ALTERNATIVES
<b>143 SIGNAGE/WAYFINDER</b>	
144 Interior Building Signs	See Current Standards
145 Exterior and Architectural Signs	See Current Standards
146 Pedestrian and MapSigns/Display	See Current Standards
147 Roadway, Vehicular and Parking Signage	See Current Standards
148 Room Signs	See Current Standards
<b>149 DIV. 11: EQUIPMENT</b>	
150 FOOD SERVICE EQUIPMENT	Wolf
151 KITCHEN, APPLIANCES	Kitchen Aid, Samsung, GE, Whirlpool
152 PROJECTION SCREENS	DA-LITE
153 PROJECTOR MOUNTS	CHIEF MAUNFACTURING OR EQUAL
<b>154 DIV. 12: FURNISHINGS</b>	
155 WINDOW SHADES	MECHO-SHADE CORP, NO BLINDS
156 METAL LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
157 LAMINATED CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
158 WOOD LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
<b>159 BLEACHERS</b>	
160 INTERIOR, GYMNASIUM	Irwin Telescopic, KYA System
161 EXTERIOR, GYMNASIUM, STADIUM	Studisteel, Southern Bleacher Company, KYA System
<b>162 WINDOW COVERING</b>	
163 SOLAR SHADE	Mecho Shade
<b>164 BIKE RACK</b>	
165 GENERAL	PARK A BIKE, WASSAU MADE BY WASSAU TILE INC.
<b>166 DIV. 14: CONVEYING EQUIPMENT</b>	
167 STANDARD ELEVATORS	Mitsubishi, Schindler; OTIS
168 CONTROLLER	MOTION CONTROLS.....CONTROLLER CANNOT BE PROPRIETARY
169 ELEVATOR DOORS Graffiti proof interior	GAL DOOR EQUIPMENT
170 ELEVATOR CAB LIGHT FIXTURE	LED
171 WHEELCHAIR LIFTS	GARAVENTA
172 EXIT STAIR EVACUATION CHAIRS	Garaventa EVACU-TRAC CD7 or better
173 HYDRAULIC ELEVATORS-PASSENGER	Mitsubishi, Schindler; OTIS
174 HYDRAULIC ELEVATORS-FREIGHT	Mitsubishi, Schindler; OTIS
175 DUMBWAITER	MATOT
<b>176 DIV. 21: FIRE SUPPRESSION</b>	
177 VALVES	RELIABLE
178 FIRE PROTECTION EQUIPMENTS	TYCO, VIKING
179 FIRE DEPARTMENT CONNECTIONS	POTTER-ROEMER, CROKER
180 POST INDICATOR VALVES	CLOW, MUELLER
181 FLOW AND TEMPER SWITCHES	NOTIFIER, POTTER ELECTRIC
182 FIRE HYDRANTS	CLOW VALVE, RICH VALVE, James Jones
<b>183 DIV. 22: PLUMBING</b>	
<b>184 PIPE</b>	
185 DOMESTIC / POTABLE	C900 Blue, Copper K, #80 PVC
186 UNDERGROUND IRRIGATION PIPING	Schedule 40 and schedule 80 PVC 1/2" to 3" CVPC clorinated polyvinyl

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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.
199	<b>RESTROOM PLUMBING FIXTURES</b>	
200	ANGLE STOP FITTING WITH LOOSE KEY	CHICAGO FAUCETS MODEL 1013-ABCP.
201	AUTOMATIC FLUSH VALVES, HARD-WIRED	AMTC AEF-801
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: AMTC model AEF-301, AD01-3, TMV
204		B. SINGLE SUPPLY METERING SINGLE SUPPLY SINK - AMTC AEF-301
205		C. HOT AND COLD WATER MIXING METERING SINK FAUCET: AMTC AEF-301
206		1. CONCEALED MECHANICAL MIXING VALVE: AMTC TMV
207		D. DRAIN GRID STRAINER WASTE: CHICAGO FAUCETS MODEL 327-XCP
208	SHOWER FAUCETS AND HEADS	A. ACCESSIBLE SHOWERS: SYMMONS TEMPTRON 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



STANDARD	CAMPUS ALTERNATIVES	
216	URINALS (Low Flow)	AMTC ONLY
217	URINALS (Waterless)	DO NOT USE
218	FAUCETS	AMTC ONLY
219	FLUSH VALVES - TOILETS, URINALS	AMTC ONLY
220	DOMESTIC WATER HEATER	Rheem, A.O. Smith, Bradford White
221	CIRCULATING PUMP	Bell and Gossett, Grundfos with equal times
222	<b>PLUMBING VALVES AND ACCESSORIES</b>	
223	GENERAL	Nibco or equal domestic product only, lead free where applicable
224	BACKFLOW PREVENTERS	BACKFLOW DIRECT ONLY
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	<b>WATER FOUNTAINS</b>	
246	DRINKING	Haws, HalsyTaylor, Bobrick
247	<b>DIV. 23: HEATING, VENTILLATION &amp; AIR CONDITIONING (HVAC)</b>	
248	A/C UNITS, ROOF MOUNTED	ENERGY LABS, TEAM AIR, TEMPTRON, CARRIER, TRANE
249	A/C UNITS WALL MOUNTED	Bard, Trane, Carrier
250	AIR HANDLERS – CUSTOM	Temtrol, Trane, Energy Labs, TEAM AIR
251	AIR HANDLERS	Carrier, York, Trane, CARRIER
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
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	<b>DIV. 25: INTEGRATED AUTOMATION</b>	
281	ENERGY MANAGEMENT SYSTEM	ALERTON-CLIMATECH (SOLE-SOURCE)
282	<b>DIV. 26: ELECTRICAL</b>	
283	<b>RESTROOM ELECTRICAL FIXTURES</b>	
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	<b>LIGHTING/INDOOR-OUTDOOR</b>	
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
<b>ELECTRICAL FIXTURES</b>	
297	
298	ELECTRONIC WIRELESS WALL CLOCKS
	PRIMEX
299	EXIT SIGNS
	LED
300	GENERAL LIGHT SWITCHES
	LEVITON, HUBBELL
301	GENERAL RECEPTACLES
	LEVITON, HUBBELL (STAINLESS STEEL COVER PLATES ENGRAVED
302	GENERAL SAFETY SWITCHES
	CIRCUIT NUMBER AND PANEL NUMBER)
303	LIGHTING CONTROL PANELS
	LUTRON ECO
304	TIME CLOCKS - TIME SWITCHES
	INTERMATIC
305	STORAGE/TRANSFER
	HP, DELL, SIEMEN'S, CISCO...SEE I.T. STANDARDS
<b>ELECTRICAL EQUIPMENT</b>	
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
<b>ELECTRIC VEHICLES/ CHARGERS</b>	
322	ELECTRICAL VEHICLES AND CHARGERS
	TAYLOR DUNN, CLUB CAR, YALE CHASE, TOYOTA
323	CHARGER Mfr
	TAYLOR DUNN, GE, BOSCH, YALE CHASE, TOYOTA, CLUB CAR
<b>EMERGENCY POWER SYSTEM-GRID MATRIX</b>	
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
<b>EMERGENCY MANAGEMENT SYSTEM</b>	
329	EMERGENCY MANAGEMENT SYSTEM
	ALERTON-CLIMATECH
330	ENERGY MANAGEMENT SYSTEM
	ALERTON-CLIMATECH
331	Emergency Phone
	CONFIRM CURRENT STANDARD (BLUE PHONE)
332	Elevator Phone
	VoIP System per Campus Standards
<b>FIRE PROTECTION</b>	
334	ELECTRONICS
	EDWARDS EST4
<b>EMERGENCY POWER SYSTEMS</b>	
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
338	<b>DIV. 27: COMMUNICATIONS</b>	
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	<b>27 05 00 COMMON RESULTS FOR COMM</b>	
343	Structured Cabling System Warranty	MINIMUM 25 YEAR WARRANTY
344	<b>27 05 26 GROUNDING &amp; BONDING</b>	
345		Using most current LACCD IT Standards with confirmation by College IT Manager prior to placing the order
346	<b>27 05 28 PATHWAYS FOR COMM SYSTEMS</b>	
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	<b>27 11 00 COMM EQUIP. ROOM FITTINGS</b>	
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	<b>27 13 00 COMM BACKBONE CABLING</b>	
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	<b>27 15 00 COMM HORIZONTAL CABLING</b>	
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	<b>27 40 00 AUDIO VISUAL</b>	
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	<b>DIV. 28: ELECTRONIC SAFETY &amp; SECURITY</b>	
379	<b>28 10 00 ELECTRONIC ACCESS CONTROL</b>	
380	CARD READER	HID Global 920PMPTEKEA007, 921PMPTEKEA008, 910PMPTEKEA007 (use OSDP communication only)

STANDARD	CAMPUS ALTERNATIVES
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
<b>28 20 00 ELECTRONIC SURVEILLANCE</b>	
389 System Server	GENETEC
390 TV Panels	Samsung
391 CCTV	PANASONIC- DIGITAL IP; Axis Communication 8+ Megapixel
<b>FIRE ALARM SYSTEM</b>	
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
<b>DIV. 32: EXTERIOR IMPROVEMENTS</b>	
<b>IRRIGATION SYSTEMS</b>	
398 IRRIGATION CONTROLLER	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
<b>LANDSCAPE DESIGN</b>	
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