

**Los Angeles Harbor College Campus Standards**

(Note: Campus Preferences are indicated first, followed by additional manufacturers in italics 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 **Bill Englert** and a formal written approval needs to be received from the Director, **Bill Englert** 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 COMPOSITE</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	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	<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	BEST I/C CORE, 7-PIN
	INTER CHANGEABLE SYLINDERS	BEST 1C7
22	LEVER LOCKSETS	Schlage "ND' RHODES, L9000-06-626 finish is satin chrome
23	LOCKSET	Schlage L9000 Series, 06A, 626 Finish. Use Schlage 180 Degree Indicator on Classrooms and Single Use restrooms.

STANDARD	CAMPUS ALTERNATIVES
24 CABINET LOCKSETS	Olympus, Haworth, HON
25 Power Supplies	Von Duprin PS902/904/906/914 as required. Use Key Lock Option,
26 Mullions	Von Duorin KR series with M154 storage bracket kits. Fire Rated as required
27 Surface Closers	Exterior LCN 4040XP with EDA Arms at out swinging doors. Interior: LCN 4040XP
28 Auto Door Operators	LCN Senior Swing with 3-position ON/OFF/HOLD-OPEN
29 Door Stops	Interior: Ives FS436/438 Exterior: Ives FS40 Series Wall Stops: Ives WS401
30 Floor Closer	New: Do not Specifv. Existina: remove as required & replace with continuous hinae and surface mounted closer.
31 Flush Bolts	Ives FB30-FB40-FB50-FB60 Series as required.
32	Stanley FBB179-4-1/2 X 4-1/2
33	HAGER, IVES
34 HINGES	MARKAR 300 SERIES
35	CONTINUOUS STAINLESS STEEL
36	BUTTS-IVES 3CB1HW SERIES,Ives 3Cb1 at low use interior doors.
37 Padlocks	Schlage KS series for SFIC Schlaae Krvotonite KS Series
38 Overhead Stools	Glynn-Johnson 90 series and 100 series.
39 Hold Open Devices	LCN SEM Series
40	Kick Plates: Ives 8400 Series, 10" H x 2" less than door width, (1"LOW at non-mullion pairs)
40 Door Plates	Push/Pull Plates: Ives 8200 and 8303-8 Series
41	Anti-Vandal Plates: Ives VR900 SerieS
41 Thresholds	National Guard or Pemko
42 Door Seals	National Guard or Pemko
43 Hollow Metal Doors & Frames	Exterior: Steelcraft or acceptable alternate Interior: Steelcraft.or acceptable alternate
44 EXIT DEVICES	VON DUPRIN AX 99 and AX 33A Series. Electrified Devices: Von Duprin QEL type. Heavy Duty Keyswitch (to accept SFIC key cylinder) on inside of rooms selected by Owner for local lockdown and Red/Green status monitoring.

STANDARD	CAMPUS ALTERNATIVES
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 Keyswitch (to accept SFIC key cylinder) on inside of rooms selected by Owner for local lockdown and Red/Green status monitoring.
45	
KEY SYSTEMS - FIRE ALARM PANEL	CAT 45
46	
AUTO DOOR CLOSER	LCN BY RBA,
47	
CONTINUOUS HINGE	STANLEY 651 X SHIM X EPT PREP
48	
MULLION SEAL	Von Duprin KR series with M154 storage bracket kits. Fire Rated as required
49	
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
50	
POWER SUPPLY	Von Duprin PS902/904/906/914 as required. Use Key Lock Option, verify combination with Locksmith.
51	
REMOVABLE MULLION	Von Duprin KR series with M154 storage bracket kits. Fire Rated as required
52	
THRESHOLD	PEMKO
53	
DOORS	
54	
WOOD DOOR	GRAHAM, HALEY BROTHERS, EGGERS INDUSTRIES
55	
SLIDING METAL FIRE DOOR	SMOKE GUARD
56	
AUTOMATIC SLIDING ALUMINUM FRAMED GLASS DOORS	STANLEY
57	
ACCESS DOORS	BAUCO, KARP, JL INDUSTRIES
58	
OVERHEAD COILING GRILLES	COOKSON COMPANY, PACIFIC ROLLING DOORS, OVERHEAD DOOR
59	
ALUMINUM-FRAMED ENTRANCES & STORE FRONT	KAWNEER COMPANY, CONTINENTAL
60	
GLASS ENTRANCES & STOREFRONT	ARCADIA, VISTAWALL
61	
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
66	

STANDARD	CAMPUS ALTERNATIVES
<b>67 WINDOWS</b>	
<b>68 ALUMINUM WINDOWS</b>	ANDERSEN
<b>69 DECORATIVE FILMS</b>	3M, LLUMAR/VISTA, METROPOLITAN WEST
<b>70 DIV. 09: FINISHES</b>	
<b>71 FLOOR/ WALL FINISHES</b>	
<b>72 CARPET</b>	Tandus (District contract in effect, mold and mildew resistant
<b>73 RESILIENT FLOORING</b>	Armstrong, Mannington
<b>74 CARPET MODULES</b>	Tandus 36X36 (District contract in effect) mold resistant
<b>75 RESILIENT TILES/SHEET FLOORING</b>	Armstrong, Medintech, KYA Group
<b>76 HARD SURFACE (GYMNASIUM)</b>	MONDO, Aacer, Noble House, Teraflex
<b>77 WALL BASE</b>	Johnsonite, Armstrong, Mannington, Roppe, Burke
<b>78 RAISED FLOORING SYSTEMS</b>	Access Floor Co.
<b>79 PORCELAIN TILE-CERAMIC</b>	Specific to design standard with installation floor to ceiling
<b>80 WALL COVERINGS</b>	Dunn Edwards, Vista Paint
<b>81 PAINT</b>	Dunn Edwards , ICI, Dulux, Vista Paint
<b>82 HIGH PERFORMANCE COATINGS</b>	Dunn Edwards , ICI, Dulux, Scuffmaster BY Master Coating Technologies
<b>83 EPOXY FLOORING-(EXTERIOR)</b>	NEOGARD
<b>84 FLOOR MATS/WALK-OFF MATS</b>	TANDUS (DISTRICT CONTRACT IN EFFECT)
<b>85 GRAFFITI RESISTANT COATINGS</b>	PERMASHIELD PREMIUM OR GENESIS COATING
<b>86 GRAFFITI RESISTANT FILM</b>	3M, JOHNSON WINDOW FILMS
<b>87 SEAMLESS FLOORING for Sports &amp; Activities</b>	KYA
<b>88 VCT</b>	Johnsonite, Armstrong, KYA
<b>89 RESINOUS FLOORING-EPOXY</b>	STONHARD, CROSSFIELD PRODUCTS, TNEMEC
<b>90 FIBERGLASS REINFORCED PLASTIC PANELS</b>	MARLITE
<b>91 CERAMIC TILES AND TILING</b>	
<b>92 GENERAL</b>	DALE TILES
<b>93 MOTAR/GROUT</b>	MAPEI, LATICRETE
<b>94 TERRAZZO/MARBLE TILES</b>	FRITZTILE OR EQUAL
<b>95 CEMENTITIOUS GROUT (FLOOR TILE)</b>	LATICRETE® PERMACOLOR™, OR APPROVED EQUAL.
<b>96 EPOXY GROUT (WALL TILE)</b>	LATICRETE® SPECTRALLOCK® PRO PREMIUM GROUT, OR APPROVED EQUAL.
<b>97 FLOOR TILE</b>	DAL TILE, OR APPROVED EQUAL.

STANDARD	CAMPUS ALTERNATIVES
98 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)
99 WALL TILE	DAL TILE, OR APPROVED EQUAL.
100 WATERPROOF MEMBRANE	LATICRETE® HYDRO BARRIER™, OR APPROVED EQUAL.
101 EXTERIOR PLASTER	LA HABRA, HIGHLAND
102 PHOTOVOLTAICS	PANASONIC, Shot Panels
<b>CEILING SYSTEMS</b>	
104 ACOUSTICAL TILE	ARMSTRONG 1729 FIND FISSURED, USG
105 GRID SYSTEM	Armstrong, USG, Stratford
106 ACOUSTICAL SUSPENSION SYSTEM - acoustic treatment	ARMSTRONG, USG OR CHICAGO METALLIC CO,
107 SOUND ABSORBING UNITS	AcoustiColor, ARMSTRONG, ROCKFON
108 INTERIOR SUSPENDED LIGHTS	LITHONIA, PRUDENTIAL - LED ONLY
109 WALL & CEILING ACCESS DOORS	SQUARE OR RECTANGULAR FRAMES WITH HINGED LOCKED DOOR
<b>DIV. 10: SPECIALTIES</b>	
111 SOAP DISPENSERS	BOBRICK B-8226
112 PAPER TOWEL DISPENSERS	BOBRICK MODEL B-262 Classic Series,
113 PAPER TOWEL DISPENSERS (AT STAFF/FACULTY RESTROOMS ONLY)	BOBRICK MODEL B-2860 SURFACE MOUNTED ROLL TOWEL DISPENSER, OR APPROVED EQUAL.
114 TOILET PAPER DISPENSER	JUMBO, BOBRICK MODEL B-4388 RECESSED MULTI ROLL TOILET TISSUE DISPENSER
115 HAND DRYER	Xlerator, Saniflow (ADA compliant), Dyson Air Blade
116 BATHROOM PARTITIONS	BOBRICK SIERRASERIES® WATER-AND FIRE-RESISTANT SOLID COLOR REINFORCED COMPOSITE TOILET PARTITIONS AND URINAL SCREENS, ORBOBRICK DURALINE SERIES 1080
117 RESTROOM ACCESSORIES	BOBRICK, Xlerator
118 SANITARY NAPKIN	BOBRICK MODEL B-3706C STAINLESS STEEL SEMI-RECESSED NAPKIN/TAMPON DISPENSER
119 SANITARY NAPKIN DISPOSALS	RECESSED SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B 353, OR APPROVED EQUAL / PARTITION-MOUNTED SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B-354
120 DIAPER-CHANGING STATION	KOALA KARE PRODUCTS MODEL KB-110-SSWM HORIZONTAL WALL MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION, OR APPROVED EQUAL.
121 FOLDING SHOWER SEATS	BOBRICK MODEL B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT, OR APPROVED EQUAL.

STANDARD	CAMPUS ALTERNATIVES	
122	<b>GRAB BARS</b>	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.)
123	<b>KEYING FOR TOILET ACCESSORIES</b>	BOBRICK KEY #2055
124	<b>LAVATORY SINK (COUNTERTOP):</b>	AMERICAN STANDARD MODEL 0476.028 AQUALYN™ VITREOUS CHINA COUNTERTOP SINK, OR APPROVED EQUAL.
125	<b>LAVATORY SINK (WALL-HUNG, WHERE REPLACING EXISTING WALL-HUNG LAVATORY)</b>	4" CENTERSET WITH CONCEALED ARM CARRIERS: AMERICAN STANDARD LUCERNE MODEL 0355.012, OR KOHLER KINGSTON K- 2005-0, OR APPROVED EQUAL.
126	<b>MIRRORS (FRAMED)</b>	BOBRICK B-290 SERIES, 18" X 36", OR APPROVED EQUAL.
127	<b>SHOWER CURTAIN HOOKS</b>	BOBRICK MODEL 204-1 STAINLESS STEEL SHOWER CURTAIN HOOK, OR APPROVED EQUAL.
128	<b>SHOWER CURTAIN RODS</b>	BOBRICK MODEL B-6107 HEAVY-DUTY SHOWER CURTAIN ROD, OR APPROVED EQUAL.
129	<b>SHOWER CURTAINS</b>	BOBRICK MODEL 204-3 VINYL SHOWER CURTAIN, OR APPROVED EQUAL.
130	<b>SHOWER SOAP DISH</b>	BOBRICK MODEL B-4390 RECESSED HEAVY-DUTY SOAP DISH WITH BAR, OR APPROVED EQUAL.
131	<b>TOILET SEATS</b>	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.
132	<b>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.</b>	TRUEBRO® LAV GUARD®2, OR APPROVED EQUAL.
133	<b>UTILITY SHELF</b>	BOBRICK MODEL B-298 STAINLESS STEEL SHELF, 24" MINIMUM LENGTH X 8" DEPTH, OR APPROVED EQUAL.
134	<b>WALL HOOKS (AT TOILET STALLS, AND BELOW OR ADJACENT TO UTILITY SHELVES)</b>	BOBRICK MODEL B-671 SURFACE-MOUNTED SINGLE ROBE HOOK, BRIGHT POLISHED STAINLESS STEEL, OR APPROVED EQUAL.
135	<b>WASTE RECEPTACLES (AT STAFF/FACULTY RESTROOMS ONLY)</b>	BOBRICK MODE B-3644 RECESSED WASTE RECEPTACLE, OR APPROVED EQUAL.
136	<b>MISC. SPECIALTIES</b>	
137	<b>EMERGENCY RESPONDER LOCK BOX</b>	KNOX BOX 3200 SERIES
138	<b>EVACUATION CHAIR</b>	EVACUTRAC BY GARAVENTA LIFT
139	<b>REMOVABLE STEEL BOLLARD</b>	CALPIPE SECURITY BOLLARDS
140	<b>FLEXIBLE BOLLARDS</b>	RELIANCE FOUNDRY, BC CANADA
141	<b>LOCKERS</b>	LYON METAL PRODUCTS, REPUBLIC, PENCO
142	<b>STORAGE/TRANSFER</b>	Tyga-Box System or EQUAL
143	<b>MARKER BOARD</b>	ABC SCHOOL SUPPLIES, EGAN VISUAL, ADP LEMCO
144	<b>TACKBOARDS</b>	ABC SCHOOL SUPPLIES, ADP LEMCO
145	<b>OPERABLE PARTITIONS</b>	WON DOOR , HUF COR AIRWALL

STANDARD		CAMPUS ALTERNATIVES
146	WALL AND CORNER GUARDS	CONSTRUCTION SPECIALTIES, INC., BALCO, PAWLING,
147	FLAGPOLES	MORGAN-FRANCIS CO. INC.
148	<b>FIRE EXTINGUISHERS/ CABINET W/LOCKS</b>	
149	GENERAL	J.L. INDUSTRIES (KEY # LL24), POTTER-ROEMER
150	<b>SIGNAGE/WAYFINDER</b>	
151	Interior Building Signs	Campus Wayfinding and Signage Master Plan Vol 2 Campus Design Standard Job Placement & Data Center Building dated 3/08/2010, Steinberg Architects
152	Exterior and Architectural Signs	Campus Wayfinding and Signage Master Plan Vol 2 Campus Design Standard Job Placement & Data Center Building dated 3/08/2010, Steinberg Architects
153	Pedestrian and MapSigns/Display	Campus Wayfinding and Signage Master Plan Vol 2 Campus Design Standard Job Placement & Data Center Building dated 3/08/2010, Steinberg Architects
154	Roadway, Vehicular and Parking Signage	Campus Wayfinding and Signage Master Plan Vol 2 Campus Design Standard Job Placement & Data Center Building dated 3/08/2010, Steinberg Architects
155	Room Signs	Campus Wayfinding and Signage Master Plan Vol 2 Campus Design Standard Job Placement & Data Center Building dated 3/08/2010, Steinberg Architects
156	<b>DIV. 11: EQUIPMENT</b>	
157	FOOD SERVICE EQUIPMENT	Wolfe, Dwyer
158	KITCHEN, APPLIANCES	KitchenAid, Samsung, GE, Whirlpool
159	PROJECTION SCREENS	DA-LITE
160	PROJECTOR MOUNTS	CHIEF MAUNFACTURING OR EQUAL
161	<b>DIV. 12: FURNISHINGS</b>	
162	WINDOW SHADES	MECHO-SHADE CORP, LUTRON
163	METAL LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
164	LAMINATED CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
165	WOOD LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
166	<b>BLEACHERS</b>	
167	INTERIOR, GYMNASIUM, TELESCOPIC, STND.	Irwin Telescopic, Studisteel, Southern Bleacher Company, KYA System
168	<b>WINDOW COVERING</b>	
169	SOLAR SHADE	Mecho Shade, Lutron
170	BLINDS - VERTICAL/ HORIZONTAL	Levolor, Hunter-Douglas, Lutron
171	<b>BIKE RACK</b>	
172	GENERAL	PARK A BIKE, WASSAU MADE BY WASSAU TILE INC.
173	<b>DIV. 13: SPECIAL CONSTRUCTION</b>	
174	MODULAR STRUCTURES	MOD SPACE, WILLIAMS SCOTSMAN, AURORA - DSA APPROVED ONLY
175	<b>DIV. 14: CONVEYING EQUIPMENT</b>	
176	STANDARD ELEVATORS	Mitsubishi, Thyssen Krupp, Fujitec, Schindler
177	CONTROLLER	MOTION CONTROLS.....CONTROLLER CANNOT BE PROPRIETARY



STANDARD		CAMPUS ALTERNATIVES
178	ELEVATOR DOORS Graffiti proof interior	GAL DOOR EQUIPMENT
179	ELEVATOR CAB LIGHT FIXTURE	LED
180	WHEELCHAIR LIFTS	GARAVENTA
181	EXIT STAIR EVACUATION CHAIRS	Garaventa EVACU-TRAC CD7 or better
182	HYDRAULIC ELEVATORS-PASSENGER	Mitsubishi, Thyssen Krupp, Kone, Schindler
183	HYDRAULIC ELEVATORS-FREIGHT	THYSSENKRUPP, KONE, SCHINDLER
184	DUMBWAITER	MATOT
<b>DIV. 21: FIRE SUPPRESSION</b>		
186	VALVES	RELIABLE
187	FIRE PROTECTION EQUIPMENTS	TYCO, VIKING
188	FIRE DEPARTMENT CONNECTIONS	POTTER-ROEMER, CROKER
189	POST INDICATOR VALVES	CLOW, MUELLER
190	FLOW AND TEMPER SWITCHES	NOTIFIER, POTTER ELECTRIC
191	FIRE HYDRANTS	CLOW VALVE, RICH VALVE, James Jones
<b>DIV. 22: PLUMBING</b>		
<b>PIPE</b>		
194	DOMESTIC / POTABLE	C900 Blue, Copper K, #80 PVC
195	UNDERGROUND IRRIGATION PIPING	Schedule 40 and schedule 80 PVC 1/2" to 3" CVPC chlorinated polyvinyl
196	UNDERGROUND SANITARY PIPING	CAST IRON, SDR-35 ASTM A888, CISPI 301
197	ABOVE GROUND SANITARY PIPING	Cast Iron Tyler Pipe /DWV Copper
198	PIPE TUBING AND FITTINGS	C-900 Mega Lug FTGs Approved CI Conn Flange
199	STEEL PIPE FUEL GAS/NATURAL GAS	Black Schedule 40 indOor only with similar fittings
200	STEEL PIPE WATER OR AIR	Galvanized Domestic only - No Substitute, or black schedule 40
201	BRASS PIPE	Red Brass, Schedule 40 lead free
202	COPPER TUBING	Type "K" below grade or Type "L" above grades only, No "M", No substitutes
203	BRASS SCHEDULE 40 SOLDER JOINT FTG's	Domestic
204	SCREWED FITTINGS	Domestic
205	GAS PIPING UNDERGROUND	Polyethylene Pipe, Steel transition, yellow tracer wire, Butt fusion or socket
206	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
207	PIPE AND FITTINGS	Standard D2751-88 Cast iron, no hub pipe and fittings, waste, silver solder for 2 inch or above pipe.
<b>RESTROOM PLUMBING FIXTURES</b>		
209	ANGLE STOP FITTING WITH LOOSE KEY	CHICAGO FAUCETS MODEL 1013-ABCP.
210	AUTOMATIC FLUSH VALVES, HARD-WIRED	SLOAN #111-1.28-ES-S-YO
211	FLOOR DRAINS WITH ADJUSTABLE STRAINER HEADS	JAY R. SMITH MFG. CO. MODEL 2005Y (ROUND TOP), OR APPROVED EQUAL.



STANDARD	CAMPUS ALTERNATIVES
212 LAVATORY FAUCET AND DRAIN (RESTROOM 213 LAVATORIES SHALL BE SUPPLIED WITH HOT 214 AND COLD WATER) 215 216	A. HOT AND COLD WATER SINK FAUCET: CHICAGO FAUCETS MODEL 802-VABCP, OR APPROVED EQUAL. B. SINGLE SUPPLY METERING SINK FAUCET: CHICAGO FAUCETS MODEL 3400-ABCP, OR APPROVED EQUAL. C. HOT AND COLD WATER MIXING METERING SINK FAUCET: CHICAGO FAUCETS MODEL 857- 665PSHABCP, 1. CONCEALED MECHANICAL MIXING VALVE: CHICAGO FAUCETS MODEL 242.165.AB.1, OR APPROVED EQUAL. D. DRAIN GRID STRAINER WASTE: CHICAGO FAUCETS MODEL 327-XCP
217 218 SHOWER FAUCETS AND HEADS 219	A. ACCESSIBLE SHOWERS: SYMMONS TEMPTROL II™ (2000 SERIES) SHOWER SYSTEM WITH HAND SPRAY, MODEL 25- 500-B30-V, B. NON-ACCESSIBLE SHOWERS: SYMMONS 2000™ SERIES SHOWER SYSTEM (INCLUDES CLEAR- FLO SHOWER HEAD WITH ARM AND FLANGE), MODEL 25-1, 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, OR APPROVED EQUAL.
220 TOILET FIXTURES (Low Flow, Viterous China)	American Standard, Kohler
221 SINKS	American Standard, Kohler
222 Stop Fittings	Chicago Faucets model 1013-ABLP
223 KITCHEN SINKS	Elkay, Koler, Stainless steel
224 SERIVCE SINKS	Koler, Chicago
225 URINALS (Low Flow)	Sloan
226 URINALS (Waterless)	Sloan
227 FAUCETS	Chicago-automatic or manual only
228 FLUSH VALVES - TOILETS, URINALS	Sloan only - manual or sensor - no zurn
229 DOMESTIC WATER HEATER	Rheem, A.O. Smith, Bradford White
230 CIRCULATING PUMP	Bell and Gossett, Grundfos with equal times
231 PLUMBING VALVES AND ACCESSORIES	
232 GENERAL	Nibco or equal domestic product only, lead free where applicable
233 EXPANSION TANKS	AMTROL, Bell and Gossett, Watts
234 BACKFLOW PREVENTERS	Watts/FEBCO, ZURN/Wilkins
235 CLEAN OUTS	J.R. Smith, NIBCO
236 FLOOR DRAINS	J.R. Smith, ZURN, MIFAB
237 TRAP PRIMERS	SIOUX CHIEF, Automatic or connect to flush valve
238 ROOF DRAINS	J.R. Smith, ZURN
239 BALL VALVES	MIBCO (Brass, Full Port) Accorn
240 GATE VALVES	NIBCO (Union Bonnet, Raised Stem) Accorn
241 GLOBE VALVES	NIBCO (Brass)
242 CHECK VALVES	NIBCO (Brass), FEBCO

	STANDARD	CAMPUS ALTERNATIVES
243	VALVES( WATER, BELOW GROUND)	STOCKHAM (Cast Iron Flanged AWWA with operating unit)
244	BACKWATER VALVES	ZURN
245	DRAIN PUMPS	SWABY, PACO, PEERLESS, WEIL
246	CHECK VALVES FOR 4" OR LARGER LINE	MILWAUKEE, ZURN, COMBRACO OR EQUAL
247	DRAINAGE SYSTEMS	ZURN, J. R. SMITH MFR CO
248	ELECTRIC SELF-REGULATING T&M CABLE	RAYCHEM CORP. THERMON COMMERCIAL PROD. DIVISION
249	TRENCH -FUNNEL DRAINS	STOCKHAM VALVES & FITTINGS CO., NIBCO
250	HOSE BIBB BOX	ACORN ENG #8140/8102, STAINLESS STEEL RECESSED W. LOOSE KEY HANDELS, DOOR.
251	PISTON WATER HAMMER	MIFAB MWA Series
252	BOILER	RAYPACK, LOCHINVAR
253	EMERGENCY EYEWASH & SHOWERS	Watersaver, Haws, Encon, Bradley
254	<b>WATER FOUNTAINS</b>	
255	DRINKING	Haws, HalsyTaylor, Bobrick
256	<b>DIV. 23: HEATING, VENTILLATION &amp; AIR CONDITIONING (HVAC)</b>	
257	A/C UNITS, ROOF MOUNTED	York, Trane
258	A/C UNITS WALL MOUNTED	Bard, Trane, Carrier
259	AIR HANDLERS – CUSTOM	Temtrol, Trane, Energy Labs
260	AIR HANDLERS	Carrier, York, Trane
261	HVAC HYDRONIC CONTROL VALVE	Belimo, two way
262	HVAC HEATING & COOLING CONTROL VALVE	Belimo PICCV two way with reserving switch
263	HVAC HYDRONIC PIPE FLANGE ADAPTER CONNECTIONS	OMNI
264	MOTORS	Baldor, GE, Dayton, Baltimore
265	PUMPS	PACO, Bell & Gossett, TACO
266	COOLING TOWERS	Marley
267	OTHER FILTERS	American Fan, Triden Filtering Sys, 3M, Florence Filter
268	BOILER CONTROLS-HOT WATER	Alertron Controls
269	FAN COILS DX	Carrier, York, Trane
270	COMPUTER ROOM AC UNITS	Data Aire
271		Dedicated BMS controlled,inverter airconditioning for IDF rooms
272	CHILLED WATER FAN COILS	Carrier, York,Trane
273	AIR COOLED CHILLER	Carrie
274	CENTRIFUGAL WATER-COOLED CHILLER	Carrie
275	SCREW-TYPE AIR COOLED CHILLER	Carrie
276	SCREW-TYPE WATER COOLED CHILLER	Carrie
277	SCROLL-TYPE AIR COOLED CHILLER	Carrie
278	CHILLER-GENERAL	Carrie
279	ABSORBTION CHILLER	BROAD
280	OTHER ABSORBTION CHILLER	BROAD

STANDARD		CAMPUS ALTERNATIVES
281	VENTILATORS AND EXHAUST FANS	Cook, Greenheck
282	FIRE SMOKE DAMPER	Belmo w/ end switch to communicate to EMS
283	VARIABLE FREQUENCY DRIVES	ABB
284	HYDRONIC PIPING	Carbon Steel, Sch 80, Insulated PVC Perma Pipe, Thermacor
285	AIR CONDITIONING THERMOSTAT	ALERTON Total Line 3-heating / 2 cool/heat pump/digital 7 day programable PIN P 374-2800
286	THERMOSTAT LOCK BOX	Honeywell Large Opaque / PINTG 512B1007
287		Alertron , White Roger
288	MOTOR CONTROLS	Square D
<b>DIV. 25: INTEGRATED AUTOMATION</b>		
290	ENERGY MANAGEMENT SYSTEM	ALERTON-CLIMATECH (SOLE-SOURCE)
<b>DIV. 26: ELECTRICAL</b>		
<b>RESTROOM ELECTRICAL FIXTURES</b>		
293	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.
294	LIGHT FIXTURES	A. VANDAL-RESISTANT CONSTRUCTION PREFERRED.
295		B. LISTED FOR DAMP OR WET LOCATIONS.
296		C. LAMPING: T8 OR CFL.
<b>LIGHTING/INDOOR-OUTDOOR</b>		
298	INTERIOR LIGHT FIXTURES(LED), Fluoresces No incandesce light fixture	PRUDENTIAL, LITHONIA, HE WILLIAMS, LIGHTOLIER - MEET ENERGY STAR REQUIRMENTS (T-8 TUBES, LED)
299	INTERIOR SUSPENDED LIGHTS	PRUDENTIAL, LITHONIA, PHILIPS - LED WITH 10 YRS WARRANTY ON LED AND DRIVER
300	VANDAL PROOF LIGHTING FIXTURES	LED WITH 10 YRS WARRANTY ON LED AND DRIVER, RUUD/CREE, STANCO
301	CONNECT WITH EMERGENCY LIGHTS	ALERTRON TO EMERGENCY GRID
302	EXTERIOR LIGHTS	LED
303	PARKING LOT	LED
304	ATHLETIC FIELD	MUSCO
305	LIGHT SENSORS	"WATT STOPPER", LEVITON, LUTRON
<b>LIGHTING SUPPLIES</b>		
307	LIGHT BULBS, FLOURESCNETS T-8's	GE, SYLVANIA, PHILIPS 4100K, MIN 80CRI - LED
308	BALLASTS	GE, SYLVANIA, PHILIPS, LUTRON
309	OTHER	LED
<b>ELECTRICAL FIXTURES</b>		
311	ELECTRONIC WIRELESS WALL CLOCKS	PRIMEX
312	EXIT SIGNS	LED
313	GENERAL LIGHT SWITCHES	LEVITON, HUBBELL
314	GENERAL RECEPTACLES	LEVITON, HUBBELL
315	GENERAL SAFETY SWITCHES	GE

STANDARD		CAMPUS ALTERNATIVES
316	LIGHTING CONTROL PANELS	LUTRON ECO
317	TIME CLOCKS - TIME SWITCHES	INTERMATIC
318	STORAGE/TRANSFER	HP, DELL, SIEMEN'S, CISCO...SEE I.T. STANDARDS
319	<b>ELECTRICAL EQUIPMENT</b>	
320	HIGH & MEDIUM VOLTAGE TRANSFORMERS	STANDARD GENERAL DRY-TYPE-SQUARE D
321	LOW VOLTAGE & TELECOM CONDUCTORS	APPROVED NEC COPPER CONDUCTORS ONLY-THHN/THWN
322	LOW VOLTAGE TRANSFORMERS	SQUARE D, GE
323	SECONDARY DISTRIBUTION CONDUCTOR	APPROVED NEC COPPER CONDUCTORS ONLY-THHN/THWN
324	MAIN SWITCHBOARD	G.E., CUTLER-HAMMER, SELECTION TO MATCH EXISTING
325	MAIN DISTRIBUTION SWITCHBOARDS	G.E., CUTLER-HAMMER, SELECTION TO MATCH EXISTING
326	DRY TYPE TRANSFORMERS	WESTINGHOUSE, GE, CUTLER-HAMMER
327	MAGNETIC MOTOR STARTERS	GE, CUTLER-HAMMER
328	SOFT START MOTOR STARTERS	CUTLER HAMMER
329	PANELBOARDS	GE, CUTLER-HAMMER
330	MCC (MOTOR CONTROL CENTERS)	SQUARE D
331	VARIABLE FREQUENCY DRIVES	ABB
332	TEERMINAL AIR UNITES VAV	TITUS, KRUEGER
333	ELECTRICAL FINISH FACE PLATES	STAINLESS FINISH PLATES
334	<b>ELECTRIC VEHICLES/ CHARGERS</b>	
335	ELECTRICAL VEHICLES AND CHARGERS	TAYLOR DUNN, HONDA, CLUB CAR PRECEDENT
336	CHARGER Mfr	TAYLOR DUNN, GE, BOSCH, LESTER
337	<b>EMERGENCY POWER SYSTEM-GRID MATRIX</b>	
338	CONNECT WITH SUMP PUMPS	ALERTRON TO EMERGENCY GRID
339	CONNECT WITH CO2 SENSORS	ALERTRON TO EMERGENCY GRID
340	CONNECT WITH EMS/CMMMS	ALERTRON TO EMERGENCY GRID
341	<b>EMERGENCY MANAGEMENT SYSTEM</b>	
342	EMERGENCY MANAGEMENT SYSTEM	ALERTON-CLIMATECH
343	ENERGY MANAGEMENT SYSTEM	ALERTON-CLIMATECH
344	Emergency Phone	CALL-24 Call Wireless
345	Elevator Phone	CALL-24 Call boxes
346	<b>FIRE PROTECTION</b>	
347	ELECTRONICS	EDWARDS EST
348	<b>EMERGENCY POWER SYSTEMS</b>	
349	GENERATORS	ONAN, CATERPILLAR, KOHLER (MUST HAVE DPF WITHIN 100M OF K-12)
350	UPS	SCHNEIDER ELECTRIC, EATON
351	<b>DIV. 27: COMMUNICATIONS</b>	
352	Data Center Server Enclosures	APC, CHATSWORTH PRODUCTS, EATON

STANDARD		CAMPUS ALTERNATIVES
353	IDF Data Enclosures	APC, CHATSWORTH PRODUCTS, EATON
354	Network Cabling Systems	SIEMON 10G CAT 6A MAX. ADC TRUENET (all backed by 20 year warranty)
355		COPPER TEN CAT6A (all backed by 20 year warranty)
356		SIEMON 10G SHIELDED CAT 6A Z-MAX
357		10GCAT6A Plenum/Pandout,Ortonics,Beldon
<b>27 05 00 COMMON RESULTS FOR COMM</b>		
359	Structured Cabling System Warranty	MINIMUM 25 YEAR WARRANTY
<b>27 05 26 GROUNDING &amp; BONDING</b>		
361	Bus Bar	CHATSWORTH
<b>27 05 28 PATHWAYS FOR COMM SYSTEMS</b>		
363	Hangers & Cable Ties	CHATSWORTH PRODUCTS, COOPER B-LINE
364	Cable Tray	COOPER B-LINE, PANDUIT, LEVITON, CHATSWORTH
365	Air Blown Fiber System (ABF)	DESIGN SPEC NOT CAMPUS STANDARD
366	IDF Data Enclosures	CHATSWORTH, SIEMON V-600, APC
<b>27 05 43 UG DUCTS &amp; RACEWAY FOR COMM</b>		
368		DESIGN SPEC NOT CAMPUS STANDARD
<b>27 11 00 COMM EQUIP. ROOM FITTINGS</b>		
370	Ladder Racks	CHATSWORTH PRODUCTS
371	Equipment Racks	APC NETSHELTER, ORTRONICS, CHATSWORTH PRODUCTS
372	Wall-Mounted Cabinets	COOPER B-LINE DAMAC, CHATSWORTH PRODUCTS
373	Horizontal Managers	CHATSWORTH PRODUCTS
374	Fiber Optic Terminals (FOT's)-Housing	PANDUIT, SYSTIMAX, CORNING
375	Fiber Terminal Adapters and Connectors	PANDUIT, SYSTIMAX, CORNING
376	Patch panels	SIEMON Z-MAX CAT6A/F/ UTP SHIELDED, PANDUIT, SYSTIMAX, ORTONICS
377	Cable Tags & Splice Labels	3M, PANDUIT
<b>27 13 00 COMM BACKBONE CABLING</b>		
379	Copper OSP Cable	SUPERIOR ESSEX
380	Splice Cases - Outside	3M, PANDUIT , CORNING
381	Splice Cases - Inside	3M, PANDUIT, CORNING
382	Splice Bay & Relay Labels	3M
<b>27 15 00 COMM HORIZONTAL CABLING</b>		
384	Station Cabling	PANDUIT AND SYSTIMAX, F/UTP PLENUM-RATED
385	Jacks	PANDUIT AND SYSTIMAX
386	Faceplates	PANDUIT AND SYSTIMAX
<b>27 40 00 AUDIO VISUAL</b>		
388	CONTROL SYSTEM	UTELOGY
389	PROJECTOR	PANASONIC
390	DOCUMENT CAMERA	ALMO
391	MICROPHONE	SHURE

STANDARD		CAMPUS ALTERNATIVES
392	NETWORK SWITCH	HP 5400,3800 POE
393	CLASSROOM LIGHTING CONTROL	LUTRON
394	PC COMPUTERS	DELL OPTIPLEX
395	NETWORK DATA SWITCHES	HP 5400,3800 SERIES POE
396	UPS	EATON
397	PROJECT SCREEN	DA-LITE
<b>DIV. 28: ELECTRONIC SAFETY &amp; SECURITY</b>		
<b>28 10 00 ELECTRONIC ACCESS CONTROL</b>		
400	Card Readers	HID ICLASS SE contactless smart card (R40 type) - no sub. Requires ICLASS Standard Compatibility, 920NTNTEK00000 (Typical model)
401	Software	LENEL ONGUARD
402	Controllers	Lenel OnGuard. LNL 3300
403	Data Center Air Conditioning	DEPENDS ON METHOD OF COOLING
404	Classroom AV	UTELOGY,
405	Alarm Initiating Devices	Edwards EST
406	Video Management Software	LENEL ONGUARD
<b>28 20 00 ELECTRONIC SURVEILLANCE</b>		
408	CCTV Cameras	Review this section to District Standards
409	High Definition / MEGA Pixel	ARECONT VISION MEGAVIDEO SERIES
410	Digital VIDEO to IP ENCODER	AXIS: Q741 (OR BETTER)
411	System Server	Lenel Enterprise NVR
412	TV Panels	Samsung
413	CCTV	PANASONIC- DIGITAL IP
<b>WIRELESS ACCESS POINTS</b>		
415	Indoor Access Points	ARUBA AP-225
416	Outdoor Access Points	ARUBA AP-275
<b>NETWORK SWITCHES</b>		
418	Data Switches	HP 5400,3800 SERIES POET
<b>FIRE ALARM SYSTEM</b>		
420	GENERAL	Edwards (EST 3) with Mass Notification
421	FIRE ALARM PULL STATION	EST CAT 45 KEY
422	SPEAKER/STROLL AMBER ALERT	EDWARDS W/ MASS NOTIFICATION
<b>DIV. 32: EXTERIOR IMPROVEMENTS</b>		
<b>IRRIGATION SYSTEMS</b>		
425	IRRIGATION CONTROLLER	CALSENSE-ET2000E
426	IRRIGATION - Sprinkler Heads	HUNTER
427	IRRIGATION SYSTEMS	CALSENSE-ET2000E
428	CONTROLLER REMOTE SITE MANAGEMENT	CAL SENSE
429	CONTROLLER HAND-HELD REMOTE CONTROL	CAL SENSE
430	RAIN SENSOR	CAL SENSE

<b>STANDARD</b>		<b>CAMPUS ALTERNATIVES</b>
431	<b>CONTROL WIRE - COMMON</b>	Paige P7001D 12 AWG White
432	<b>CONTROL WIRE - HOT</b>	Paige P7001D 14 AWG Colored
433	<b>MASTER VALVE</b>	CAL SENSE
434	<b>FLOW SENSOR</b>	CAL SENSE
435	<b>ELECTRIC CONTROL VALVE</b>	CAL SENSE
436	<b>LANDSCAPE DESIGN</b>	
437	<b>LARGE TREES</b>	CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION
438	<b>MEDIUM TREES PRIMARILY FOR SHADE</b>	CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION
439	<b>SMALL TREES FOR FLOWERS &amp; FRAGRANCE</b>	CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION
440	<b>PALMS</b>	CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION
441	<b>SHRUBS INACTIVE AREAS</b>	CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION
442	<b>SHRUBS IN IRRIGATED AREAS</b>	CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION