

WEST LOS ANGELES COLLEGE

CAMPUS STANDARDS- MATRIX

(Note: Campus Preferences are indicated first or with a √, 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. West Los Angeles College (WLAC) 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 and a formal written approval needs to be received from the WLAC 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 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 PINS IC
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	Modified Bitumen 30-yr Garland, 4-yr ply. Build-up roof multi-ply no single ply. Build-up roof multi-ply (District Standards).
13		PVC 40 mil min. or TPO 60 mil min. for flat roofs- both warrenty 25 yr plus
14 FIREPROOFING		
15	GENERAL	MONOKOTE
16 WATERPROOFING		
17	BITUMINOUS DAMPPROOFING for cold applications	WR MEADOWS, HENRY
18	SELF-ADHERING SHEET WATERPROOFING	WR GRACE, WR MEADOWS, CARLISLE COATINGS
19 DIV. 08: OPENINGS		
20 HARDWARE		
21	KEYING OF CYLINDER	BEST I/C CORE CYLINDER, 7-PIN.
22	INTER CHANGEABLE CYLINDERS	BEST 1C7 SOLE SOURCE
23	INTER CHANGEABLE MORTISE CYLINDERS	BEST 1E74, 1E7G4 SOLE SOURCE
24	INTER CHANGEABLE RIM CYLINDERS	BEST 1E72 SOLE SOURCE
25	LOCKSET	BEST 45H Series 3H -HIGH SECUIRTY PRIVATCY
26		BEST 9K Serials
27	CABINET LOCKSETS	BEST
28	HINGES	STANLEY
29	CONTINUOUS:	STANLEY

	STANDARD	CAMPUS ALTERNATIVES
30	EXIT DEVICES	VON DUPRIN-98 SERIES, Cylinder Dogging,, XP @ EXTERIOR
31		VON DUPRIN CD99 SERIES 996L-03 LEVER AX
32	KEY REMOVABLE MULLION POST for double	(NON FIRE RATED) VON DUPRIN KR4954
33	door exit device opening	(FIRE RATED) VON DUPRIN KR9954
34	CLOSER	LCN-4041, LCN - 4040 EDA or HEDA XP SWING TO WALL
35	ADA COMPLIANT PEDESTRIAN SWING DOOR OPERATOR	LCN 4640 SERIES
36	CARD READER	SUBJECT TO WLAC APPROVAL
37	ELECTRIC STRIKES: RIM EXIT DEVICES	VON DUPRIN, WIRE THRU THE HINGES
38	ELECTRIC CYLINDRICAL LOCKS	
39	ELECTRIC STRIKES : MORTISE LOCKS	HES 1006, field modification, cutting of Fire Door Frame SHALL NOT be permitted.
40	KEY SYSTEMS	BEST KABA PEAKS 7-PIN
41	FIRE ALARM PANEL KEYING	CAT 45
42	ELECTRICAL CABINET KEYING	LL803
43	ANTI VANDAL PULL	TRIMCO 1097HA-SP, TRIMCO 1097HA-SP-NC, TRIMCO 1096HA
44	ARMOR COLLAR/CYLINDER GUARD	KEEDEX K-24
45	ASTRAGAL	BY DOOR MANUFACTURER, PEMKO 355S
46	AUTO DOOR OPERATOR	LCN 4640-CS
47	AUTO DOOR CLOSER	LCN BY RBA,
48	AUTO FLUSH BOLT	TRIMCO 3825LX3815L, TRIMCO 3820X3810
49	BOLLARD ACTUATOR	LCN 8310-3853TWB
50	BOLLARD POST	LCN 8310-866
51	COORDINATORS	TRIMCO 3094 X 3095/3096 AS REQ'D
52	DOOR BOTTOM	PEMKO
53	DOOR HOLDER	LCN PAH-60
54	DOOR STOPS	TRIMCO
55	DOOR SWEEP	PEMKO 3452V
56	DUST PROOF STRIKE	TRIMCO 3911, TRIMCO 3910
57	ELECTRIC LOCKSET	BEST 45HW7DEU X 3H X L/OST
58	KICK PLATE	TRIMCO KO050 - 10 X 2 LDW B4E
59	LATCHSET	BEST 45H0N X 3H
60	MOP PLATE	TRIMCO KM050 - 6 X 1 LDW B4E
61	MULLION SEAL	BEST LOCK 5110
62	OVERHEAD COILING DOOR KEY SWITCH CONTROL	VEE INDUSTRIES, INC. 1 KX SURFACE MOUNT KEY SWITCH, MUST USE BEST KEY
63	OVERHEAD STOPS	GLYNN-JOHNSON
64	POWER SUPPLY	VON DUPRIN PS914 X 900-2RS
65	POWER TRANSER	VON DUPRIN EPT-2
66	PUSH/PULLS	TRIMCO
67	REMOVABLE MULLION	VON DUPRIN KR4954 X MT54
68	SILENCERS	TRIMCO 1229A
69	SMOKE SEALS	PEMKO S44 HEAD & JAMBS

STANDARD		CAMPUS ALTERNATIVES
70		LCN P4041-SCNS
71	SURFACE CLOSER	LCN 4041 SERIES WITH "EDA" ARMS.
72		LCN P4041-H-EDA
73	THRESHOLD	PEMKO
74	WALL ACTUATOR	LCN 8310-853TWP
75	WALL BUMPER	TRIMCO 1270CVPV
76	WEATHERSTRIP	PEMKO 2891S HEAD & JAMBS
77	WIRELESS RECEIVER	LCN 8310-865
78	DOORS	
79	WOOD DOOR	SUBJECT TO WLAC APPROVAL
80	SLIDING METAL FIRE DOOR	SMOKE GUARD
81	AUTOMATIC SLIDING ALUMINUM FRAMED GLASS DOORS	STANLEY
82	ACCESS DOORS	BAUCO, KARP ASSOCIATES INC., JL INDUSTRIES
83	EXTERIOR CEILING DOOR	COOKSON COMPANY
84	FIRE RATED AUTOMATIC ROOLING SERVICE DOORS	COOKSON COMPANY
85	INSULATED, ELECTRIC OPERATION, ROOLING SERVICE DOOR	OVERHEAD DOOR CORPORATION
86	OVERHEAD COILING GRILLES	COOKSON COMPANY, PACIFIC ROLLING DOORS
87	FOLDING DOORS	MODERNFOLD, WON-DOOR, HUF COR
88	ALUMINUM-FRAMED ENTRANCES & STORE FRONT	UNITED STATES ALUMINIUM CORP., KAWNEER, CONTINENTAL
89	GLASS ENTRANCES & STOREFRONT	CONTINENTAL, OLDCASTLE, CR LAURENCE OR EQUAL
90	RESTROOM ENTRY DOORS	
91	HOLLOW METAL DOORS, MINIMUM REQUIREMENTS	SDI-100 GRADE II MODEL 3, 1 3/4 INCHES THICK.
92	HOLLOW METAL FRAMES, MINIMUM REQUIREMENTS	16 GAUGE THICK MATERIAL, TO SUIT DOOR, 14 GAUGE COLD ROLLED STEEL
93	MARBLE THRESHOLDS AT TOILET ROOM ENTRANCES	GROUP "A" MARBLE AS CLASSIFIED BY THE MARBLE INSTITUTE OF AMERICA
94	METAL DOOR LOUVERS (AT RATED OPENINGS)	ANEMOSTAT FLDL-UL-SG2 LOUVER
95	METAL DOOR LOUVERS (AT NON-RATED OPENINGS)	ANEMOSTAT PLSL LOUVER
96	WINDOWS	
97	ALUMINUM WINDOWS	WAUSAU, MODU-LINE 2250 SIGNATURE SERIES 12E, THERMAL BREAK WINDOW, ANDERSEN, PELLA
98	WINDOW COVERING	LEVELOR RIVERA, HUNTER DOUGLAS OR EQUAL
99	DECORATIVE FILMS	3M, LLUMAR/VISTA, METROPOLITAN WEST
100	DIV. 09: FINISHES	
101	FLOOR/ WALL FINISHES	
102	CARPET	TANDUS OR EQUAL
103	RESILIENT FLOORING	ARMSTRONG, MANNINGTON, JOHNSONITE
104	CARPET MODULES	TANDUS MOLD RESISTANT
105	RESILIENT TILES/SHEET FLOORING	ARMSTRONG, MANNINGTON, JOHNSONITE
106	HARD SURFACE (GYMNASIUM)	SUBJECT TO WLAC APPROVAL

	STANDARD	CAMPUS ALTERNATIVES
107	WALL BASE - RUBBER	BURKE
108	RAISED FLOORING SYSTEMS	TATE, ACCESS FLOOR SYSTEMS OR EQUAL
109	PORCELAIN TILE	DALTILE
110	WALL COVERINGS	DUNN EDWARDS, VISTA PAINT, BENJAMIN MOORE
111	PAINT	DUNN EDWARDS, SHERWIN WILLIAMS
112	HIGH-PERFORMANCE COATINGS	DUNN EDWARDS, ICI
113	EPOXY FLOORING-(EXTERIOR)	NEOGARD
114	FLOOR MATS/WALK-OFF MATS	TANDUS OR EQUAL
115	GRAFFITI RESISTANT COATINGS	PERMASHIELD PREMIUM OR GENESIS COATING
116	GRAFFITI RESISTANT FILM	3M, JOHNSON WINDOW FILMS
117	SEAMLESS FLOORING	ARMSTRONG, MANNINGTON, JOHNSONITE
118	VCT	ARMSTRONG, MANNINGTON, JOHNSONITE
119	RESINOUS FLOORING-EPOXY	STONHARD, CROSSFIELD PRODUCTS, TNE MEC
120	FIBERGLASS REINFORCED PLASTIC PANELS	MARLITE, KAL-LITE, CRANE CO.
121	GENERAL CERAMIC TILE	DAL TILES
122	MOTAR/GROUT	MAPEI, LATICRETE
123	TERRAZZO/MARBLE TILES	FRITZTILE OR EQUAL
124	CEMENTITIOUS GROUT (FLOOR TILE)	LATICRETE® PERMACOLOR™, OR APPROVED EQUAL.
125	EPOXY GROUT (WALL TILE)	LATICRETE® SPECTRALLOCK® PRO PREMIUM GROUT, OR APPROVED EQUAL.
126	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)
127	WALL TILE	FIELD TILE AND BASE DALTILE SEMI-GLOSS 4" X 4" , ACCENT TILE, DALTILE SEMI-GLOSS 4"X4"
128	WATERPROOF MEMBRANE	LATICRETE® HYDRO BARRIER™, OR APPROVED EQUAL.
129	EXTERIOR PLASTER	LA HABRA, HIGHLAND
130	PHOTOVOLTAICS	SHELL SOLAR OR EQUAL
131	CEILING SYSTEMS	
132	ACOUSTICAL TILE	ARMSTRONG, USG
133	GRID SYSTEM	ARMSTRONG, USG, Donn Finline
134	ACOUSTICAL SUSPENSION SYSTEM	ARMSTRONG , USG
135	SOUND-ABSORBING UNITS	ACOUSTICOLOR OR EQUAL
136	INTERIOR SUSPENDED LIGHTS	LED, PRUDENTIAL, LITHONIA
137	WALL & CEILING ACCESS DOORS	WITH HINGED LOCKED DOOR
138	DIV. 10: SPECIALTIES	
139	SOAP DISPENSERS	DESIGNER TO SUBMIT FOR WLAC APPROVAL
140	PAPER TOWEL DISPENSERS	DESIGNER TO SUBMIT FOR WLAC APPROVAL
141	Toilet paper dispensers	DESIGNER TO SUBMIT FOR WLAC APPROVAL

STANDARD	CAMPUS ALTERNATIVES
142 BATHROOM PARTITIONS	BOBRICK SIERRASERIES® WATER-AND FIRE-RESISTANT SOLID COLOR REINFORCED COMPOSITE TOILET PARTITIONS AND URINAL SCREENS, OR CAMPUS APPROVED EQUAL
143 RESTROOM ACCESSORIES	BOBRICK, BRADLEY
144 LOCKERS	DESIGNER TO SUBMIT FOR WLAC APPROVAL
145 STORAGE/TRANSFER	TYGA-BOX SYSTEM OR EQUAL
146 MARKER BOARD	ABC SCHOOL SUPPLIES
147 TACKBOARDS	ABC SCHOOL SUPPLIES
148 OPERABLE PARTITIONS	WON DOOR , HUF COR AIRWALL
149 WALL AND CORNER GUARDS	CONSTRUCTION SPECIALTIES, INC., BALCO, PAWLING
150 DIAPER-CHANGING STATION	KOALA KARE PRODUCTS MODEL KB-110-SSWM HORIZONTAL WALL MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION, AMERICAN SPECIALITIES INC., OR APPROVED EQUAL.
151 FOLDING SHOWER SEATS	BOBRICK MODEL B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT, OR APPROVED EQUAL.
152 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.)
153 HAND DRYERS	dyson (ADA compliant), BRADLEY MODEL 2897-28 RECESSED HAND DRYER, MAXIMUM 4" PROJECTION FROM WALL, OR APPROVED EQUAL.
154 KEYING FOR TOILET ACCESSORIES	BOBRICK KEY #2055
155 LAVATORY SINK (COUNTERTOP):	AMERICAN STANDARD MODEL 0476.028 AQUALYN™ VITREOUS CHINA COUNTERTOP SINK, OR APPROVED EQUAL.
156 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, OR APPROVED EQUAL.
157 MIRRORS (FRAMED)	BOBRICK B-290 SERIES, 18" X 36", OR APPROVED EQUAL.
158 SHOWER CURTAIN HOOKS	BOBRICK MODEL 204-1 STAINLESS STEEL SHOWER CURTAIN HOOK, OR APPROVED EQUAL.
159 SHOWER CURTAIN RODS	BOBRICK MODEL B-6107 HEAVY-DUTY SHOWER CURTAIN ROD, OR APPROVED EQUAL.
160 SHOWER CURTAINS	BOBRICK MODEL 204-3 VINYL SHOWER CURTAIN, OR APPROVED EQUAL.
161 SHOWER SOAP DISH	BOBRICK MODEL B-4390 RECESSED HEAVY-DUTY SOAP DISH WITH BAR, OR APPROVED EQUAL.
162 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.
163 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, OR APPROVED EQUAL.
164 UTILITY SHELF	BOBRICK MODEL B-298 STAINLESS STEEL SHELF, 24" MINIMUM LENGTH X 8" DEPTH, OR APPROVED EQUAL.

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165	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, OR APPROVED EQUAL.
166	WASTE RECEPTACLES (AT STAFF/FACULTY RESTROOMS ONLY)	BOBRICK MODE B-3644 RECESSED WASTE RECEPTACLE, OR APPROVED EQUAL.
167	EMERGENCY RESPONDER LOCK BOX	KNOX BOX 3200 SERIES
168	EVACUATION CHAIR	GARAVENTA LIFT, STRYKER EMS OR EQUAL
169	REMOVABLE STEEL BOLLARD	CALPIPE SECURITY BOLLARDS
170	FLEXIBLE BOLLARDS	RELIANCE FOUNDRY, BC CANADA
171	FIRE ALARM SYSTEM	SIEMENS - SOLE SOURCE
172	FIRE EXTINGUISHER CABINET W/ LOCK	POTTER-ROEMER, JL INDUSTRIES (KEY #LL24), LARSENS
173	FLAGPOLES	MORGAN-FRANCIS CO. INC.
174	DIRECTORIES & BULLETIN BOARDS	SUBJECT TO WLAC APPROVAL
175	DIV. 11: EQUIPMENT	
176	FOOD SERVICE EQUIPMENT	HOBART, WOLF EQUIPMENT
177	KITCHEN, APPLIANCES	GE, SAMSUG, KITCHENAID
178	LOADING DOCK LEVELERS	MECHANICAL TYPE ONLY
179	PROJECTION SCREENS	DA-LITE OR EQUAL
180	PROJECTOR MOUNTS	CHIEF MAUNFACTURING OR EQUAL
181	LAB FUME HOOD	KEWAUNEE SCIENTIFIC OR EQUAL
182	DIV. 12: FURNISHINGS	
183	WINDOW SHADES	MECHO-SHADE CORP OR EQUAL
184	METAL LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB FURNITURE, HAMILTON LAB SOLUTIONS
185	LAMINATED CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB FURNITURE, HAMILTON LAB SOLUTIONS
186	WOOD LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB FURNITURE, HAMILTON LAB SOLUTIONS
187	BLEACHERS	
188	INTERIOR, GYMNASIUM	IRWIN TELESCOPIC
189	EXTERIOR, GYM	STRUDISTEEL, SOUTHERN BLEACHER CO
190	WINDOW COVERING	
191	SOLAR SHADE	MECHO SHADE, LEVOLOR
192	BLINDS - VERTICAL/ HORIZONTAL	MECHO SHADE, LEVOLOR, HUNTER DOUGLAS
193	BIKE PARKING RACK	DESIGNER TO SUBMIT FOR WLAC APPROVAL
194	DIV. 13: SPECIAL CONSTRUCTION	
195	MODULAR STRUCTURES	SUBJECT TO WLAC APPROVAL
196	DIV. 14: CONVEYING EQUIPMENT	
197	STANDARD ELEVATORS	FUJITEC, OTIC, SCHINDLER, NO Mitsubishi
198	CONTROLLER	MOTION CONTROLS.....CONTROLLER CANNOT BE PROPRIETARY
199	ELEVATOR DOORS Graffiti proof interior	GAL DOOR EQUIPMENT
200	ELEVATOR CAB LIGHT FIXTURE	LED
201	WHEELCHAIR LIFTS	GARAVENTA, THYSSEN KRUPP, TL SHIELD
202	EXIT STAIR EVACUATION CHAIRS	Garaventa Evacuation chairs , EVACU-TRAC CD7 or better

STANDARD		CAMPUS ALTERNATIVES
203		Stryker EMS with storage cabinet and alarm
204	HYDRAULIC ELEVATORS	FUJITEC, OTIS, SCHINDLER
205	DUMBWAITER	MATOT, TL SHIELD
206	DIV. 21: FIRE SUPPRESSION	
207	HYDRANTS	JAMES JONES, CLOW VALVE
208	DIV. 22: PLUMBING	
209	PIPE	
210	DOMESTIC, /POTABLE	C900 Blue, Copper K, #80 PVC
211	UNDERGROUND WATER IRRIGATION PIPING	Schedule 40 and schedule 80 PVC 1/2" to 3" CVPC clorinated polyvinyl
212	UNDERGROUND SANITARY PIPING	CAST IRON, SDR-35 ASTM A888, CISPI 301
213	ABOVE GROUND SANITARY PIPING	Cast Iron Tyler Pipe /DWV Copper
214	PIPE TUBING AND FITTINGS	C-900 Mega Lug FTGs Approved CI Conn Flange
215	STEEL PIPE FUEL GAS/NATURAL GAS	Black Schedule 40 indor only with similar fittings
216	STEEL PIPE WATER OR AIR	Galvanized Domestic only - No Substitute, or black schedule 40
217	BRASS PIPE	Red Brass, Schedule 40 lead free
218	COPPER TUBING	Type "K" below grade or Type "L" above grades only, No "M", No substitutes
219	BRASS SCHEDULE 40 SOLDER JOINT FTG's	Domestic
220	SCREWED FITTINGS	Domestic
221	GAS PIPING UNDERGROUND	Polyethylene Pipe, Steel transition, yellow tracer wire, Butt fusion or ssocket
222	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
223	PIPE AND FITTINGS	Standard D2751-88 Cast iron, no hub pipe and fittings, waste, silver solder for 2 inch or above pipe.
224	PLUMBING FIXTURES	
225	TOILET FIXTURES (Low Flow, Viterous China)	AMERICAN STANDARD, ZURN, KOHLER, SLOAN
226	SINKS	AMERICAN STANDARD, KOHLER
227	(Vitreous China Lavatories)	FALCON
228	Stop Fittings	Chicago Faucets model 1013-ABLP
229	KITCHEN SINKS (stainless steel)	Elkay, KOHLER
230	SERIVCE SINKS	AMERICAN STANDARD, ZURN, KOHLER
231	(Vitreous China Lavatories)	Chicago
232	URINALS (Low Flow)	AMERICAN STANDARD, SLOAN, KOHLER,
233	URINALS (Waterless)	DO NOT USE
234	FAUCETS	Chicago-automatic or manual only, American Standard, Kohler
235	FLUSH VALVES - TOILETS, URINALS	SLOAN - manual or sensor
236	DOMESTIC WATER HEATER	A.O. Smith, Rheem, Lochinvar
237	CIRCULATING PUMP	Grundfos with equal times, Bell and Gossett
238	PLUMBING VALVES AND ACCESSORIES	
239	GENERAL	Nibco or equal domestic product only, lead free where applicable
240	EXPANSION TANKS	AMTROL, BELL & GOSSETT, WATTS

	STANDARD	CAMPUS ALTERNATIVES
241	BACKFLOW PREVENTERS	WILKINS, FEBCO, MILWAUKEE, WATTS
242	CLEAN OUTS	JR SMITH, ZURN
243	FLOOR DRAINS	JR SMITH, ZURN
244	TRAP PRIMERS	SIoux CHIEF, PPP Inc
245	ROOF DRAINS	JR SMITH, ZURN
246	BALL VALVES	NIBCO (Brass, Full Port), ACORN ENG
247	GATE VALVES	NIBCO (Union Bonnet, Raised Stem), ACORN ENG
248	GLOBE VALVES	NIBCO (Brass)
249	CHECK VALVES/BACKFLOW PREVENTOR	NIBCO (Brass), FEBCO
250	VALVES(WATER, BELOW GROUND)	STOCKHAM (Cast Iron Flanged AWWA with operating unit)
251	BACKWATER VALVES	JR SMITH, ZURN
252	DRAIN PUMPS	SWABY, PACO, PEERLESS
253	DRAINAGE SYSTEM	JR SMITH, ZURN
254	ELECTRIC SELF REGULATING THERMAL MANAGEMENT CABLE	RAYCHEM
255	TRENCH FUNNEL DRAINS	Stockham Valves & Fittings Co.
256	HOSE BIBB BOX	ACORN ENG #8140/8102, STAINLESS STEEL RECESSED W. LOOSE KEY HANDELS, DOOR.
257	PISTON WATER HAMMER	MIFAB MWA Series
258	SHOWER HEADS & FAUCETS	SYMMONS
259	BOILER	RAYPACK, LOCHINVAR
260	EMERGENCY EYEWASH & SHOWER	
261	EMERGENCY EYEWASH & SHOWERS	HAWS, ENCON, BRADLEY
262	WATER FOUNTAINS	
263	DRINKING	HAWS
264	DIV. 23: HEATING, VENTILLATION & AIR CONDITIONING (HVAC)	
265	A/C UNITS, ROOF MOUNTED	TRANE, CARRIER, YORK
266	A/C UNITS WALL MOUNTED	BARD, TRANE, CARRIER
267	AIR HANDLERS – CUSTOM	ENERGY LAB., TRANE, SEASONS 4
268	AIR HANDLERS	TRANE, CARRIER, YORK
269	HVAC HYDRONIC CONTROL VALVE	SIEMENS
270	HVAC HEATING & COOLING CONTROL VALVE	SIEMENS, Belimo PICCV two way with reversing switch
271	HVAC HYDRONIC PIPE FLANGE ADAPTER CONNECTIONS	OMNI
272	MOTORS	Baldor, GE
273	PUMPS	PACO
274	COOLING TOWERS	Baltimore Air Coil, STAINLESS STEEL
275	OTHER FILTERS	American Fan, Trident Filtering Sys., 3-M, Florence Filter
276	BOILER CONTROLS-HOT WATER	Raypack condensening boiler 98% efficient, AERCO BENCHMARK
277	BOILER CONTROLS-STEAM	PARKER
278	FAN COILS DX	TRANE, CARRIER, YORK
279	COMPUTER ROOM AC UNITS	APC, LIEBERT
280	CHILLED WATER FAN COILS	TRANE, CARRIER, YORK
281	AIR COOLED CHILLER	TRANE, CARRIER, YORK, McQuay

	STANDARD	CAMPUS ALTERNATIVES
282	CENTRIFUGAL WATER-COOLED CHILLER	CARRIER, YORK, TRANE, McQuay
283	SCREW-TYPE AIR COOLED CHILLER	DO NOT USE
284	SCREW-TYPE WATER COOLED CHILLER	DO NOT USE
285	SCROLL-TYPE AIR COOLED CHILLER	CARRIER, YORK, TRANE, McQuay
286	CHILLER-GENERAL	CARRIER, YORK, TRANE, McQuay
287	ABSORBTION CHILLER	CARRIER, YORK, TRANE, McQuay
288	OTHER ABSORBTION CHILLER	SUBJECT TO WLAC APPROVAL
289	VENTILATORS AND EXHAUST FANS	COOK, GREENHECK
290	FIRE SMOKE DAMPER	Belmo w/ end switch to communicate to EMS, Ruskin, Kruger
291	VARIABLE FREQUENCY DRIVES	ABB, DANFOSS
292	HYDRONIC PIPING	Carbon Steel, Sch 80, Insulated PVC Perma Pipe, Thermacor
293	AIR CONIDITIONING THERMOSTAT	SIEMENS
294	THERMOSTAT LOCK BOX	HONEYWELL
295	MOTOR CONTROL FOR FURNACE	Allen Bradley, Square D, GE, Eaton
296	DIV. 25: INTEGRATED AUTOMATION	
297	ENERGY MANAGEMENT SYSTEM	SIEMENS (SOLE-SOURCE)
298	DIV. 26: ELECTRICAL	
299	ELECTRICAL FIXTURES	
300	INTERIOR LIGHT FIXTURES(LED), No incandescent light fixture	PRUDENTIAL, LITHONIA, HE WILLIAMS
301	CONNECT WITH EMERGENCY LIGHTS	SUBJECT TO WLAC APPROVAL
302	EXIT SIGNS	LED
303	ELECTRONIC WALL CLOCKS	AMERICAN TIME & SIGNALS (EXISTING)
304	INTERIOR SUSPENDED LIGHTS	LED Tpye, 10 years warranty on LED and Driver
305	LIGHTING/INDOOR-OUTDOOR	
306	VANDAL PROOF LIGHTING FIXTURES	LED Type, 10 years warranty on LED and Driver
307		STONCO, CREE, DECO, COOPER
308	LANDSCAPING FIXTURES	
309	EXTERIOR LIGHTS-PARKING LOT	LED Type, 10 years warranty on LED and Driver
310		CREE, DECO, COOPER
311	LIGHT SENSORS	"WATT STOPPER", LEVITON, LUTRON
312	PARKING LOT	LED Type, 10 years warranty on LED and Driver
313		CREE, DECO, COOPER
314	ATHLETIC FIELD	NOT ALLOWED
315	ELECTRICAL EQUIPMENT	
316	MAIN SWITCHBOARD	SELECTION TO MATCH EXISTING - G.E., EATON, SQUARE D
317	MAIN DISTRIBUTION SWITCHBOARDS	SELECTION TO MATCH EXISTING - G.E., EATON, SQUARE D
318	DRY TYPE TRANSFORMERS	G.E., EATON, SQUARE D
319	MAGNETIC MOTOR STARTERS	G.E., EATON, SQUARE D
320		DIALOG PLUS CONTROLLER
321	PANEL BOARDS	SIEMENS, EATON CUTTER HAMMER, GE, SQUARE D

STANDARD		CAMPUS ALTERNATIVES
322	MCC (MOTOR CONTROL CENTERS)	SELECTION TO MATCH EXISTING - G.E., EATON, SQUARE D
323	DRIVES	ABB, DANFOSS,
324	ELECTRICAL FINISH FACE PLATES	STAINLESS 302
325	ELECTRIC VEHICLES/ CHARGERS	
326	ELECTRICAL VEHICLES AND CHARGERS	CLUB CAR, EZ GO, CUSHMAN, TAYLOR DUNN
327	EMERGENCY POWER SYSTEM-GRID MATRIX	
328	CONNECT WITH SUMP PUMPS	SIEMENS
329	CONNECT WITH CO2 SENSORS	SIEMENS
330	CONNECT WITH EMS/CMMS	SIEMENS
331	EMERGENCY MANAGEMENT SYSTEM	
332	EMERGENCY MANAGEMENT SYSTEM	SIEMENS
333	ENERGY MANAGEMENT SYSTEM	SIEMENS
334	FIRE PROTECTION	
335	ELECTRONICS	SIEMENS
336	LIGHTING SUPPLIES	
337	LIGHT BULBS,	LED WITH 10 YEARS WARRANTY ON LED AND DRIVER
338	EMERGENCY POWER SYSTEMS	
339	GENERATORS	ONAN, KOHLER, CATERPILLAR
340	UPS	LIEBERT, APC, EATON
341	INVERTORS	MYERS POWER, LC&D
342	BUILDING LIGHTING CONTROL	ENCELIUM
343	DIV. 27: COMMUNICATIONS	
344	Data Center Server Enclosures	APC,
345	IDF Data Enclosures	APC, NTC, EATON
346	Network Cabling Systems	AMP, LEVINTON, BERK-TEK - CAT 6 & 6A
347	27 05 00 COMMON RESULTS FOR COMM	
348	Structured Cabling System Warranty	MINIMUM 25 YEAR WARRANTY
349	27 05 26 GROUNDING & BONDING	
350	Bus Bar	LYNCOLE XIT, CHATSWORTH, COPPER B LINE
351	27 05 28 PATHWAYS FOR COMM SYSTEMS	
352	EMT Conduits & Couplings & Connectors	APPLETON, CROUSE-HINDS
353	Conduit Supports	KINDORF, UNISTRUT, THOMAS & BETTS
354	Hangers & Cable Ties	CHATSWORTH PRODUCTS, COOPER B-LINE, CADDY, MONO
355	Metal Outlet Boxes - Double Gang, Extra Deep	APPLETON, RACO, STEEL CITY
356	Pull Boxes and Cabinets	HOFFMAN ENCLOSURES, WIRE GUARD, CHATSWORTH PRODUCTS
357	Cable Tray	COOPER B-LINE, PANDUIT, LEVITON, CHATSWORTH PRODUCTS
358	IDF Data Enclosures	APC, SIEMON, MIDDLE ATLANTIC, CHATSWORTH PRODUCTS
359	27 05 43 UG DUCTS & RACEWAY FOR COMM	
360	Manholes	UTILITY VAULT (OLDCASTLE), JENSEN
361	Pull boxes	UTILITY VAULT (OLDCASTLE), JENSEN
362	MH/PB Hardware	INWESCO PRODUCTS

STANDARD		CAMPUS ALTERNATIVES
363	Conduits (Schedule 40 or Type C)	CARLON, WIREMOLD, PANDUIT
364	Detectable Warning Tape	CARLON
365	Pull, Rope 1700 lb tensile strength	CARLON
366	Bonding ribbon (In vaults)	INWESCO CAT 12A55
367	Bonding ribbon clamps (In vaults)	INWESCO CAT 12A56
368	Fargo Clamp	INWESCO CAT 12A57
369	Ground Rod	INWESCO CAT 12A60
370	Ground Inserts (Cast Bronze)	INWESCO CAT 12H69
371	Manhole Lids	ALHAMBRA FOUNDRY, OPW
372	Manhole Ladders	ALHAMBRA FOUNDRY - MODEL A-3382 W/ A3383 SUPPORT BAR
373	27 11 00 COMM EQUIP. ROOM FITTINGS	
374	Ladder Racks	CHATSWORTH PRODUCTS, HOMACO, COPPER B LINE
375	Equipment Racks	APC NETSHELTER, SIEMON VERSAPOD, ORTRONICS
376	Wall-Mounted Cabinets	COOPER B-LINE DAMAC, MIDDLE ATLANTIC, CHATSWORTH
377	Horizontal Managers	SIEMON, CHATSWORTH, ORTRONICS, APC
378	Fiber Optic Terminals (FOT's)-Housing	SIEMON, LIGHTSTACK, PANDUIT, SYSTIMAX
379	Fiber Terminal Adapters and Connectors	SIEMON RIC-FLC6-01, LIGHTSTACK LS-12-LC-5V-01, LS-12-LC-SM-01
380	Plywood	NATIONAL PLYWOOD INDUSTRIES, 1" MINIMUM
381	Fire Retardant Paint	FLAMORT, FIRENOMORE INTERNATIONAL, INTERNATIONAL FIRE RETARDANTS
382	Patch panels	AMP, SIEMON, PANDUIT
383	Cable Tags & Splice Labels	3M, PANDUIT, TECH PRODUCTS INC.
384	Protector Panels	EMERSON , CIRCA
385	IP Paging	Singlewire Informacast
386	27 13 00 COMM BACKBONE CABLING	
387	Fiber Tube Cable (OSP and Riser)	SUMITOMO ELECTRIC FUTUREFLEX, CORNING, PANDUIT
388	Fiber Cable - OSP and Riser	SUMITOMO ELECTRIC FUTUREFLEX ABF-50U OM4,CORNING, PANDUIT
389	Copper OSP Cable	SUPERIOR ESSEX, COMMSCOPE, CORNING
390	Splice Cases - Outside	3M,PSI, CORNING, PANDUIT
391	Splice Cases - Inside	3M, CORNING, PANDUIT
392	Splice Bay & Relay Labels	3M
393	ABF Tube Clips	SUMITOMO ELECTRIC FUTUREFLEX
394	27 15 00 COMM HORIZONTAL CABLING	
395	Station Cabling	AMP, BERK-TEK
396	Jacks	AMP, BERK-TEK
397	Faceplates	AMP, SIEMON, PANDUIT, SYSTIMAX
398	Emergency Phone	CALL24
399	Elevator Phone	CALL24
400	27 40 00 AUDIO VISUAL	
401	CONTROL SYSTEM	UTELOGY, EXTRON, CRESTRON
402	PROJECTOR	PANASONIC, EPSON, NEC

STANDARD		CAMPUS ALTERNATIVES
403	PROJECT SCREEN	DA-LITE, ELITE, EPSON, DRAPER
404	LECTERN	SPECTRUM FREEDOM XRS, FORBES-AV, VREM AV
405	DOCUMENT CAMERA	WOLFSVISION, HOVERCAM, SAMSUNG, ALMO
406	ASSISTIVE LISTENING DEVICE	LISTEN TECHNOLOGIES
407	MICROPHONE	SHURE
408	NETWORK SWITCH	CISCO IP BASED-POE+, UPGRADABLE TO LATEST TECHNICAL ADVANCES
409	ANNOTATION DEVICE	SMART TECHNOLOGIES, POLYVISION, STEELCASE
410	INTERACTIVE DISPLAY	SMART TECHNOLOGIES, EPSON
411	CLASSROOM LIGHTING CONTROL	CRESTON, CLIMATEC, LUTRON, LC&D
412	SPEAKERS	JBL, BOSE, QSC
413	PC COMPUTERS	DELL
414	LECTURE CAPTURE	ENSEMBLE
415	NETWORK DATA SWITCHES	CISCO (W/POE)
416	UPS	APC
417	DIV. 28: ELECTRONIC SAFETY & SECURITY	
418	28 10 00 ELECTRONIC ACCESS CONTROL	
419	Card Readers	HID ICLASS SE contactless smart card (R40 type) - no sub. Requires ICLASS Standard Compatibility, 920NTNTEK00000 (Typical model)
420	Software	Lenel OnGuard
421	Controllers	Lenel OnGuard. LNL 3300
422	Data Center Air Conditioning	LIEBERT, APC, DATA AIRE
423	Classroom AV	UTELOGY, EXTRON
424	Data Center Power Protection	LIEBERT
425	Alarm Initiating Devices	GE/SENTROL
426	Video Management Software	ONSSI OCCULARIES ES
427		EXACQ VISION
428	28 20 00 ELECTRONIC SURVEILLANCE	
429	CCTV Cameras	Review this section to District Standards, PANASONIC, SONY
430	High Definition / MEGA Pixel	ARECONT VISION MEGAVIDEO SERIES
431	Digital VIDEO to IP ENCODER	AXIS: Q741
432	System Server	Lenel Enterprise NVR
433	Recording System	NETAPP FAS2240 or newer
434	TV Panels	Samsung
435	CCTV	PANASONIC- DIGITAL IP
436	Access System	AMAG TECHNOLOGY ENTERPRICE EDITION
437		LENEL ENTERPRISE
438	Motion Detector	BOSCH MODEL D5936, OPTEX
439	SIS Head-End	ZENITEL/STENTONFON
440	Wall Mounted Field Devices	TALK A PHONE ETP-WM
441	Freestanding Field Devices	TALK A PHONE ETP-MT/R OP 4 OR 5
442	Interior Building Signs	See 2013 Faculties Master Plan by West Edge
443	Exterior and Architectural Signs	See 2013 Faculties Master Plan by West Edge

STANDARD		CAMPUS ALTERNATIVES
444	Pedestrian and MapSigns/Display	See 2013 Faculties Master Plan by West Edge
445	Room Signs	
446	WIRELESS ACCESS POINTS	
447	Indoor Access Points	Cisco Series- latest technologies, HP, ARUBA
448	Outdoor Access Points	Cisco Series- latest technologies W/NEMA 4 ENCLOSURE, HP, ARUBA
449	NETWORK SWITCHES	
450	Data Switches	√ Cisco Catalyst IP Based-POE+
451		HP
452	FIRE ALARM SYSTEM	
453	GENERAL	SIEMENS
454	FIRE ALARM PULL STATION	SUBJECT TO WLAC APPROVAL
455	SPEAKER/STROLL AMBER ALERT	SUBJECT TO WLAC APPROVAL
456	DIV. 32: EXTERIOR IMPROVEMENTS	
457	ANTI GRAFFITI PRODUCTS	3M FILMS
458	IRRIGATION SYSTEMS	
459	IRRIGATION CONTROLLLER	HUNTER
460	IRRIGATION - SPRINKLER HEAD	HUNTER 540-4" POP-UP, RAINBIRD 1800
461	IRRIGATION - HEADS	HUNTER I-40 HEADS, HUNTER I-20 HEADS
462	IRRIGATION - CONTROL VALVES	SUPERIOR 950
463	IRRIGATION - PIPES	SCHEDULE 40 PVC PIPE
464	IRRIGATION - FITTINGS	MARLEX SCHEDULE 80 SOCKED WELD FITTINGS
465	IRRIGATION SYSTEMS	HUNTER
466	OUTDOOR FURNITURES	DESIGNER TO SUBMIT FOR WLAC APPROVAL
467	PAVEMENT MARKINGS	DUNN-EDWARDS
468	CONTROLLER REMOTE SITE MANAGEMENT	Toro TriComm Site Management
469	CONTROLLER HAND-HELD REMOTE CONTROL	Toro TMR-1
470	CONTROLLER ENCLOSURE	HUNTER
471	RAIN SENSOR	HUNTER
472	CONTROL WIRE - COMMON	Paige P7001D 12 AWG White
473	CONTROL WIRE - HOT	Paige P7001D 14 AWG Colored
474	WATERPROOF WIRE CONNECTOR	Spears DS-500 Dri-Splice
475	GROUNDING ROD	Paige 182007 with Paige 1820037P Connection
476	DIELECTRIC CONNECTION	Approved by Electrical Engineer
477	BOOSTER PUMP	Barrett Irriboost with Variable Speed Drive and SS Enclosure
478	BASKET STRAINER	Yardney SBx-T Series
480	BASKET STRAINER ENCLOSURE	V.I.T. Strong Box SBBC-xxSS with QP Option
481	PRESSURE REGULATOR	Wilkins 500 Series
482	MASTER VALVE	Toro 220 Brass or Toro P-220S Plastic
483		or Rainbird P220 Brass series with Pressure regulator
484	FLOW SENSOR	Toro TFS Series
485	GATE VALVE (2" and SMALLER)	Nibco T-113 Series
486	GATE VALVE (2 1/2" and LARGER)	RESILIENT WEDGE GATE VALVE
487	BALL VALVE (2" and SMALLER)	Nibco T-585-70 Series

STANDARD		CAMPUS ALTERNATIVES
488	AIR RELEASE VALVE	Cla-Val #33-A Series
489	QUICK COUPLING VALVE	Rain Bird #44-NP or TORO #44 NP Series
490	ELECTRIC CONTROL VALVE	SUPERIOR 950 SERIES
491	DRIP ZONE	NETAFIM
492	VALVE BOX	NDS Pro Plus Series (green plastic with purple bolt-down cover)
493	MAINLINE PIPING (6" and LARGER)	Pacific Plastics or equal CL200 PVC Gasketed
494	MAINLINE PIPING (2" - 4")	Pacific Plastics or equal CL315 Solvent-Weld PVC
495	MAINLINE PIPING (1 1/2" and SMALLER)	Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Sch 80 PVC
496	LATERL LINE PIPING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC SCH 80 PVC
497	PIPE / WIRE SLEEVING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC
498	PIPE FITTINGS (MAINLINE)	Spears or equal SCH 80 PVC
499	PIPE FITTINGS (LATERAL LINES)	Spears or equal SCH 40 PVC
500	ARTIFICIAL TURF COOLING SYSTEM HEADS	Toro TS90TP Series
501	LARGE TURF ROTOR HEADS	HUNTER
502	MEDIUM ROTOR HEADS	HUNTER
503	SMALL ROTOR HEADS	HUNTER
504	FIXED SPRAY HEADS	RAINBIRD
505	FLOOD BUBBLER	Toro 570Z-PRX-COM-E with Toro FB-PC Nozzle
506	TREE ROOT WATERING SYSTEM	Rain Bird RWS Series
507	DRIP LINE SYSTEMS	NETAFIM
508	DRIP SYSTEM FITTINGS / ACCESSORIES	NETAFIM
509	BIRD DETERRANTS	EAGLE EYE BIRD CONTROL OR EQUAL
510		√ Bird B Gone
511	GROUND PREPARATION FOR LANDSCAPING	NO CONCRETE OR ASPAULT PIECES AND NO AGGREATE OVER ¼", NEW TOP SOIL REQUIRED TOP 6"
512	LANDSCAPE DESIGN	
513	LARGE TREES	Quercus agrifolia [Coast live oak]
514	MEDIUM TREES PRIMARILY FOR SHADE	Cinnamonium camphora [Camphor tree]
515		Jacaranda mimosifolia [Jacaranda]
516		√ Liriodendron arnoldii [Tulip tree]
517		Platanus acerifolia 'Yarwoodii' [Yarwood plane tree]
518		√ Podocarpus gracilior [Fern pine]
519		Quercus ilex [Holly oak]
520		Ulmus parvifolia 'Drake' [Drake Chinese Elm]
521	SMALL TREES FOR FLOWERS & FRAGRANCE	√ Bauhinia 'Blakeana' [Hong Kong orchid tree]
522		√ Cassia leptophylla [Gold medallion tree]
523		√ Lagerstromia indica [Crape Myrtle]
524		√ Tabebuia lpe [Pink trumpet tree]
525	PALMS	Brahea armata [Mexican blue palm]
526		Chamaerops humilis [Mediterranean fan palm]
527		Cycas revoluta [Sago palm]
528		Trachycarpus fortunei [Winmill palm]

STANDARD	CAMPUS ALTERNATIVES
529	Washingtonia filifera [California fan palm]
530 SHRUBS INACTIVE AREAS	Achillea spp. [Yarrow]
531	Arctostaphylos 'Sunset' [Sunset manzanita]
532	Berberis 'Golden abundance' Oregon grape
533	Carpenteria Calif. [Bush anemone]
534	Fremontedendron 'California gold' [California fremontia]
535	Garrya eliptica [Coast silk tassel]
536	Heteromeles arbutifolia [Toyon]
537	Heuchera sp. [Alum root]
538	Penstemon 'Margarita BOP'
539	Rhamnus calif. 'San Bruno's mound' [Coffeeberry]
540	Rhus integrifolia, [Lemonade berry]
541	Ribes sanguineum [Pink flowering currant]
542	Ribes viburnifolium, [Catalina evergreen currant]
543	Romneya coulteri [Matilija poppy]
544 SHRUBS IN IRRIGATED AREAS	Agave attenuata, [Fox tail agave]
545	Anigozanthus sp., [Kangaroo paw]
546	Baccharis pilularis 'Pigeon point' [Coyote bush]
547	Callistemon 'Little John' Little John bottlebrush
548	Cistus sp. [Rockrose]
549	Coelonema pulchrum, [Pink breath of heaven]
550	Cotoneaster sp. [Cotoneaster]
551	Elaeagnus pungens [Silverberry]
552	Hemerocallis sp. [Daylily]
553	Juniperus sp. [Juniper]
554	Lantana sp., [Lantana]
555	Leptospermum sp. [Australian tea tree]
556	Ligustrum texanum [Texas privet]
557	Myrtus communis [Myrtle]
558	Osmanthus fragrans [Sweet olive]
559	Phormium tenax [Flax]
560	Pittosporum tobira sp. [Tobira]
561	Raphiolepis indica sp. [Indian hawthorne]
562	Rosmarinus officinalis [Rosemary]
563	Viburnum tinus sp. [Laurustinus]
564	Westringia fruticosa [Coast rosemary]

STANDARD	CAMPUS ALTERNATIVES
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