

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

WLAC STANDARD		CAMPUS ALTERNATIVES
<b>1 DIV. 06: WOOD, PLASTICS AND COMPOSITES</b>		
<b>2 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 PINS IC
7	CABINET MAGNETIC CATCHES	EPCO #591
8	CABINET PULLS	TRIMCO 562-4
9	CABINET SHELF STANDARDS	KNAPE & VOGT (KV) 255
<b>10 DIV. 07: THERMAL &amp; MOISTURE PROTECTION</b>		
<b>11 ROOFING</b>		
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
<b>14 FIREPROOFING</b>		
15	GENERAL	MONOKOTE
<b>16 WATERPROOFING</b>		
17	BITUMINOUS DAMPPROOFING for cold applications	WR MEADOWS, HENRY
18	SELF-ADHERING SHEET WATERPROOFING	WR GRACE, WR MEADOWS, CARLISLE COATINGS
<b>19 DIV. 08: OPENINGS</b>		
<b>20 HARDWARE</b>		
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

WLAC STANDARD		CAMPUS ALTERNATIVES
28	HINGES	STANLEY <b>STAINLESS STEEL BALL BEARING 5 KNUCKLE</b>
29	CONTINUOUS:	STANLEY <b>STAINLESS STEEL BALL BEARING 5 KNUCKLE</b>
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 door	(NON FIRE RATED) VON DUPRIN KR4954
33	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 STRIKES : MORTISE LOCKS	HES 1006, field modification, cutting of Fire Door Frame SHALL NOT be permitted. <b>Electrified Hinge</b>
39	KEY SYSTEMS	BEST KABA PEAKS 7-PIN
40	FIRE ALARM PANEL KEYING	CAT 45
41	ELECTRICAL CABINET KEYING	LL803
42	ANTI VANDAL PULL	TRIMCO 1097HA-SP, TRIMCO 1097HA-SP-NC, TRIMCO 1096HA
43	ARMOR COLLAR/CYLINDER GUARD	KEEDEK K-24
44	ASTRAGAL	BY DOOR MANUFACTURER, PEMKO 355S
45	AUTO DOOR OPERATOR	LCN 4640-CS
46	AUTO DOOR CLOSER	LCN BY RBA,
47	AUTO FLUSH BOLT	TRIMCO 3825LX3815L, TRIMCO 3820X3810
48	BOLLARD ACTUATOR	LCN 8310-3853TWB
49	BOLLARD POST	LCN 8310-866
50	COORDINATORS	TRIMCO 3094 X 3095/3096 AS REQ'D
51	DOOR BOTTOM	PEMKO
52	DOOR HOLDER	LCN PAH-60
53	DOOR STOPS	TRIMCO
54	DOOR SWEEP	PEMKO 3452V
55	DUST PROOF STRIKE	TRIMCO 3911, TRIMCO 3910
56	ELECTRIC LOCKSET	BEST 45HW7DEU X 3H X L/OST
57	KICK PLATE	TRIMCO KO050 - 10 X 2 LDW B4E
58	LATCHSET	BEST 45H0N X 3H
59	MOP PLATE	TRIMCO KM050 - 6 X 1 LDW B4E
60	MULLION SEAL	BEST LOCK 5110
61	OVERHEAD COILING DOOR KEY SWITCH CONTROL	VEE INDUSTRIES, INC. 1 KX SURFACE MOUNT KEY SWITCH, MUST USE BEST KEY
62	OVERHEAD STOPS	GLYNN-JOHNSON
63	POWER SUPPLY	VON DUPRIN PS914 X 900-2RS
64	POWER TRANSFER	VON DUPRIN EPT-2
65	PUSH/PULLS	TRIMCO
66	REMOVABLE MULLION	VON DUPRIN KR4954 X MT54
67	SILENCERS	TRIMCO 1229A

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68	SMOKE SEALS	PEMKO S44 HEAD & JAMBS
69		LCN P4041-SCNS
70	SURFACE CLOSER	LCN 4041 SERIES WITH "EDA" ARMS.
71		LCN P4041-H-EDA
72	THRESHOLD	PEMKO
73	WALL ACTUATOR	LCN 8310-853TWP
74	WALL BUMPER	TRIMCO 1270CVPV
75	WEATHERSTRIP	PEMKO 2891S HEAD & JAMBS
76	WIRELESS RECEIVER	LCN 8310-865
77	<b>DOORS</b>	
78	WOOD DOOR	SUBJECT TO WLAC APPROVAL
79	SLIDING METAL FIRE DOOR	SMOKE GUARD
80	AUTOMATIC SLIDING ALUMINUM FRAMED GLASS DOORS	STANLEY
81	ACCESS DOORS	BAUCO, KARP ASSOCIATES INC., JL INDUSTRIES
82	EXTERIOR CEILING DOOR	COOKSON COMPANY
83	FIRE RATED AUTOMATIC ROOLING SERVICE DOORS	COOKSON COMPANY
84	INSULATED, ELECTRIC OPERATION, ROOLING SERVICE DOOR	OVERHEAD DOOR CORPORATION
85	OVERHEAD COILING GRILLES	COOKSON COMPANY, PACIFIC ROLLING DOORS
86	FOLDING DOORS	MODERNFOLD, WON-DOOR, HUF COR
87	ALUMINUM-FRAMED ENTRANCES & STORE FRONT	UNITED STATES ALUMINIUM CORP., KAWNEER, CONTINENTAL
88	GLASS ENTRANCES & STOREFRONT	CONTINENTAL, OLDCASTLE, CR LAURENCE OR EQUAL
89	<b>RESTROOM ENTRY DOORS</b>	
90	HOLLOW METAL DOORS, MINIMUM REQUIREMENTS	SDI-100 GRADE II MODEL 3, 1 3/4 INCHES THICK.
91	HOLLOW METAL FRAMES, MINIMUM REQUIREMENTS	16 GAUGE THICK MATERIAL, TO SUIT DOOR, 14 GAUGE COLD ROLLED STEEL
92	MARBLE THRESHOLDS AT TOILET ROOM ENTRANCES	GROUP "A" MARBLE AS CLASSIFIED BY THE MARBLE INSTITUTE OF AMERICA
93	METAL DOOR LOUVERS ( AT RATED OPENINGS)	ANEMOSTAT FLDL-UL-SG2 LOUVER
94	METAL DOOR LOUVERS (AT NON-RATED OPENINGS)	ANEMOSTAT PLSL LOUVER
95	<b>WINDOWS</b>	
96	ALUMINUM WINDOWS	WAUSAU, MODU-LINE 2250 SIGNATURE SERIES 12E, THERMAL BREAK WINDOW, ANDERSEN, PELLA
97	WINDOW COVERING	LEVELOR RIVERA, HUNTER DOUGLAS OR EQUAL
98	DECORATIVE FILMS	3M, LLUMAR/VISTA, METROPOLITAN WEST
99	<b>DIV. 09: FINISHES</b>	
100	<b>FLOOR/ WALL FINISHES</b>	
101	CARPET	TANDUS OR EQUAL
102	RESILIENT FLOORING	ARMSTRONG, MANNINGTON, JOHNSONITE <b>Homogenous</b>
103	CARPET MODULES	TANDUS MOLD RESISTANT

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

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

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163	UTILITY SHELF	BOBRICK MODEL B-298 STAINLESS STEEL SHELF, 24" MINIMUM LENGTH X 8" DEPTH, OR APPROVED EQUAL.
164	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.
165	WASTE RECEPTACLES (AT STAFF/FACULTY RESTROOMS ONLY)	BOBRICK MODE B-3644 RECESSED WASTE RECEPTACLE, OR APPROVED EQUAL.
166	EMERGENCY RESPONDER LOCK BOX	KNOX BOX 3200 SERIES
167	EVACUATION CHAIR	GARAVENTA LIFT, STRYKER EMS OR EQUAL
168	REMOVABLE STEEL BOLLARD	CALPIPE SECURITY BOLLARDS
169	FLEXIBLE BOLLARDS	RELIANCE FOUNDRY, BC CANADA
170	FIRE ALARM SYSTEM	SIEMENS - SOLE SOURCE
171	FIRE EXTINGUISHER CABINET W/ LOCK	POTTER-ROEMER, JL INDUSTRIES (KEY #LL24), LARSENS
172	FLAGPOLES	MORGAN-FRANCIS CO. INC.
173	DIRECTORIES & BULLETIN BOARDS	SUBJECT TO WLAC APPROVAL
174	<b>DIV. 11: EQUIPMENT</b>	
175	FOOD SERVICE EQUIPMENT	HOBART, WOLF EQUIPMENT
176	KITCHEN, APPLIANCES	GE, SAMSUG, KITCHENAID
177	LOADING DOCK LEVELERS	MECHANICAL TYPE ONLY
178	PROJECTION SCREENS	DA-LITE OR EQUAL
179	PROJECTOR MOUNTS	CHIEF MAUNFACTURING OR EQUAL
180	LAB FUME HOOD	KEWAUNEE SCIENTIFIC OR EQUAL
181	<b>DIV. 12: FURNISHINGS</b>	
182	WINDOW SHADES	MECHO-SHADE CORP OR EQUAL
183	METAL LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB FURNITURE, HAMILTON LAB SOLUTIONS
184	LAMINATED CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB FURNITURE, HAMILTON LAB SOLUTIONS
185	WOOD LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB FURNITURE, HAMILTON LAB SOLUTIONS
186	<b>BLEACHERS</b>	
187	INTERIOR, GYMNASIUM	IRWIN TELESCOPIC
188	EXTERIOR, GYM	STRUDISTEEL, SOUTHERN BLEACHER CO Aluminum
189	<b>WINDOW COVERING</b>	
190	SOLAR SHADE	MECHO SHADE, LEVOLOR
191	BLINDS - VERTICAL/ HORIZONTAL	MECHO SHADE, LEVOLOR, HUNTER DOUGLAS
192	BIKE PARKING RACK	DESIGNER TO SUBMIT FOR WLAC APPROVAL
193	<b>DIV. 13: SPECIAL CONSTRUCTION</b>	
194	MODULAR STRUCTURES	SUBJECT TO WLAC APPROVAL
195	<b>DIV. 14: CONVEYING EQUIPMENT</b>	
196	STANDARD ELEVATORS	OTIS,SCHINDLER,Mitsubishi NO MRLS, NO HOLESS, NO HYDRAULIC ELEVATOR ABOVE THREE STORIES TRACTION PREFERRED
197	CONTROLLER	MOTION CONTROLS.....CONTROLLER CANNOT BE PROPRIETARY
198	ELEVATOR DOORS Graffiti proof interior	GAL DOOR EQUIPMENT
199	ELEVATOR CAB LIGHT FIXTURE	LED

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200	WHEELCHAIR LIFTS	GARAVENTA, THYSSEN KRUPP, TL SHIELD
201	EXIT STAIR EVACUATION CHAIRS	GAVEVENTA EVACUATION CHAIR: EVACU-TRAC CD7 or better
202		STRYKER EMC, STORAGE CAAINET, ALARM
203	HYDRAULIC ELEVATORS	OTIS, SCHINDLER, MITSUBISHI NO HOLESS UP TO THREE STORIES TRACTION AFTER THREE STORIES, NO MRLS
204	DUMBWAITER	MATOT, TL SHIELD
<b>DIV. 21: FIRE SUPPRESSION</b>		
206	HYDRANTS	JAMES JONES, CLOW VALVE
<b>DIV. 22: PLUMBING</b>		
<b>PIPE</b>		
209	DOMESTIC /P OTABLE	C900 Blue, Copper K, #80 PVC
210	UNDERGROUND WATER IRRIGATION PIPING	Schedule 40 and schedule 80 PVC 1/2" to 3" CVPC clorinated polyvinyl
211	UNDERGROUND SANITARY PIPING	CAST IRON, SDR-35 ASTM A888, CISPI 301
212	ABOVE GROUND SANITARY PIPING	Cast Iron Tyler Pipe /DWV Copper
213	PIPE TUBING AND FITTINGS	C-900 Mega Lug FTGs Approved CI Conn Flange
214	STEEL PIPE FUEL GAS/NATURAL GAS	Black Schedule 40 indor only with similar fittings
215	STEEL PIPE WATER OR AIR	Galvanized Domestic only - No Substitute, or black schedule 40
216	BRASS PIPE	Red Brass, Schedule 40 lead free
217	COPPER TUBING	Type "K" below grade or Type "L" above grades only, No "M", No substitutes
218	BRASS SCHEDULE 40 SOLDER JOINT FTG's	Domestic
219	SCREWED FITTINGS	Domestic
220	GAS PIPING UNDERGROUND	Polyethylene Pipe, Steel transition, yellow tracer wire, Butt fusion or ssocket
221	BUILDING DRAIN, WASTE & VENT	Cast iron no hub, no hub couplings, Cast Iron, Ftg. / DWV Copper ANANCO, Tyler MS coupling, PVC Standard ASTM D2661-87
222	PIPE AND FITTINGS	Standard D2751-88 Cast iron, no hub pipe and fittings, waste, silver solder for 2 inch or above pipe.
<b>PLUMBING FIXTURES</b>		
224	TOILET FIXTURES (Low Flow, Viterous China)	AMERICAN STANDARD, ZURN, KOHLER, SLOAN
225	SINKS	AMERICAN STANDARD, KOHLER
226	(Vitreous China Lavatories)	FALCON
227	Stop Fittings	Chicago Faucets model 1013-ABLP
228	KITCHEN SINKS (stainless steel)	Elkay, KOHLER
229	SERIVCE SINKS	AMERICAN STANDARD, ZURN, KOHLER
230	(Vitreous China Lavatories)	Chicago
231	URINALS (Low Flow)	AMERICAN STANDARD, SLOAN, KOHLER,
232	URINALS (Waterless)	DO NOT USE
233	FAUCETS	Chicago- <b>METERED</b> or manual only, American Standard, Kohler
234	FLUSH VALVES - TOILETS, URINALS	SLOAN - manual, <b>LOW FLUSH FLUSHOMETER</b>
235	DOMESTIC WATER HEATER	A.O. Smith, Rheem, Lochinvar
236	CIRCULATING PUMP	Grundfos with equal times, Bell and Gossett



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237	<b>PLUMBING VALVES AND ACCESSORIES</b>	
238	GENERAL	Nibco or equal domestic product only, lead free where applicable
239	EXPANSION TANKS	AMTROL, BELL & GOSSETT, WATTS
240	BACKFLOW PREVENTERS	WILKINS, FEBCO, WATTS
241	CLEAN OUTS	JR SMITH, ZURN
242	FLOOR DRAINS	JR SMITH, ZURN
243	TRAP PRIMERS	SIOUX CHIEF, PPP Inc
244	ROOF DRAINS	JR SMITH, ZURN
245	BALL VALVES	NIBCO (Brass, Full Port), ACORN ENG
246	GATE VALVES	NIBCO (Union Bonnet, Raised Stem), ACORN ENG
247	GLOBE VALVES	NIBCO (Brass)
248	CHECK VALVES/BACKFLOW PREVENTOR	NIBCO (Brass), FEBCO
249	VALVES( WATER, BELOW GROUND)	STOCKHAM (Cast Iron Flanged AWWA with operating unit) <b>RESILIENT GATE VALVE</b>
250	BACKWATER VALVES	JR SMITH, ZURN
251	DRAIN PUMPS	SWABY, PACO, PEERLESS
252	DRAINAGE SYSTEM	JR SMITH, ZURN
253	ELECTRIC SELF REGULATING THERMAL MANAGEMENT CABLE	RAYCHEM
254	TRENCH FUNNEL DRAINS	Stockham Valves & Fittings Co.
255	HOSE BIBB BOX	ACORN ENG #8140/8102, STAINLESS STEEL RECESSED W. LOOSE KEY HANDELS, DOOR.
256	PISTON WATER HAMMER	MIFAB MWA Series
257	SHOWER HEADS & FAUCETS	SYMMONS
258	BOILER	RAYPACK, LOCHINVAR
259	<b>EMERGENCY EYEWASH &amp; SHOWER</b>	
260	EMERGENCY EYEWASH & SHOWERS	HAWS, ENCON, BRADLEY
261	<b>WATER FOUNTAINS</b>	
262	DRINKING	HAWS
263	<b>DIV. 23: HEATING, VENTILLATION &amp; AIR CONDITIONING (HVAC)</b>	
264	A/C UNITS, ROOF MOUNTED	TRANE, CARRIER, YORK
265	A/C UNITS WALL MOUNTED	BARD, TRANE, CARRIER
266	AIR HANDLERS – CUSTOM	ENERGY LAB., TRANE, SEASONS 4
267	AIR HANDLERS	TRANE, CARRIER, YORK
268	HVAC HYDRONIC CONTROL VALVE	SIEMENS
269	HVAC HEATING & COOLING CONTROL VALVE	SIEMENS, Belimo
270	HVAC HYDRONIC PIPE FLANGE ADAPTER CONNECTIONS	OMNI
271	MOTORS	Baldor, GE
272	PUMPS	PACO
273	COOLING TOWERS	Baltimore Air Coil, STAINLESS STEEL
274	OTHER FILTERS	American Fan, Trident Filtering Sys., 3-M, Florence Filter
275	BOILER CONTROLS-HOT WATER	Raypack condensening boiler 98% efficient, AERCO BENCHMARK
276	BOILER CONTROLS-STEAM	PARKER



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

WLAC STANDARD		CAMPUS ALTERNATIVES
317	DRY TYPE TRANSFORMERS	G.E., EATON, SQUARE D
318	MAGNETIC MOTOR STARTERS	G.E., EATON, SQUARE D
319		DIALOG PLUS CONTROLLER
320	PANEL BOARDS	SIEMENS, EATON CUTLER HAMMER, GE, SQUARE D
321	MCC (MOTOR CONTROL CENTERS)	SELECTION TO MATCH EXISTING - G.E., EATON, SQUARE D
322	DRIVES	ABB, DANFOSS,
323	ELECTRICAL FINISH FACE PLATES	STAINLESS 302
<b>ELECTRIC VEHICLES/ CHARGERS</b>		
325	ELECTRICAL VEHICLES AND CHARGERS	CLUB CAR, EZ GO, CUSHMAN, TAYLOR DUNN
<b>EMERGENCY POWER SYSTEM-GRID MATRIX</b>		
327	CONNECT WITH SUMP PUMPS	SIEMENS
328	CONNECT WITH CO2 SENSORS	SIEMENS
329	CONNECT WITH EMS/CMMMS	SIEMENS
<b>EMERGENCY MANAGEMENT SYSTEM</b>		
331	EMERGENCY MANAGEMENT SYSTEM	SIEMENS
332	ENERGY MANAGEMENT SYSTEM	SIEMENS
<b>FIRE PROTECTION</b>		
334	ELECTRONICS	SIEMENS
<b>LIGHTING SUPPLIES</b>		
336	LIGHT BULBS,	LED WITH 10 YEARS WARRANTY ON LED AND DRIVER
<b>EMERGENCY POWER SYSTEMS</b>		
338	GENERATORS	ONAN, KOHLER, CATERPILLAR
339	UPS	LIEBERT, APC, EATON
340	INVERTORS	MYERS POWER, LC&D
341	BUILDING LIGHTING CONTROL	N-LIGHT, GREEN GATE, ENCELIUM
<b>DIV. 27: COMMUNICATIONS*</b>		
342	<b>*Licensing ALL Div. 27 and Div. 28 (IT devices) requiring licenses MUST INCLUDE ALL REQUIRED LICENSES BY CONTRACTOR CFCI. CONTRACTOR MAY NOT ASSUME LICENSES ARE PROVIDED BY THE COLLEGE.</b>	
<b>27 05 00 - COMMON WORK RESULTS FOR COMMUNICATIONS</b>		
344	CABLE RUNWAY & LADDER RACK	CHATSWORTH PRODUCTS, PANDUIT, EATON
345	FIRESTOPPING	STI EZ PATH, HILTI SPEED SLEEVE
<b>27 10 00 - STRUCTURED CABLING</b>		
347	FLOORMOUNT RACKS	CHATSWORTH PRODUCTS, EATON, APC
348	WALLMOUNT RACKS & CABINETS	CHATSWORTH PRODUCTS, APC, COOPER B-LINE, MIDDLE ATLANTIC, HOFFMAN
349	CABLE MANAGERS	SAME AS RACK
350	BDF/IDF UNINTERRUPTIBLE POWER SUPPLIES	APC SMART-UPS 5KVA, EATON 9PX 5KVA (models with INPUT: L6-30; OUTPUTS: L6-30R/L6-20R/L5-20R/5-20R)
351	MDF UNINTERRUPTIBLE POWER SUPPLIES	APC GALAXY VS, Symmetra, EATON 93PM (HARDWIRED 480V)
352	POWER DISTRIBUTION UNITS	APC AP8641 AND AP9335TH and NBRK0250, EATON EMA107-10 AND EMP001 (WITH L6-30P INPUT PLUG, C13 and C19 sockets).

	WLAC STANDARD	CAMPUS ALTERNATIVES
353	COPPER BACKBONE CABLING (25-PAIR)	GENERAL CABLE, ESSEX
354	FIBER BACKBONE CABLING SYSTEM	CORNING
355	FIBER TERMINATION UNITS	CORNING
356	COPPER HORIZONTAL CABLING	SIEMON, PANDUIT CATEGORY 6A F/UTP (GROUNDED)
357	DATA OUTLETS AND PATCH PANELS	SIEMON ZMAX, PANDUIT MINI-COM
358	FACEPLATES	SIEMON, PANDUIT (COORDINATE WITH WALL COLOR)
359	PATCH CABLES	SIEMON, PANDUIT (CAT6A F/UTP 28 AWG THIN)
360	SPLICE CASES	CORNING, 3M
361	BDF/IDF FIBER PATCH PANEL ENCLOSURES	Corning CCH-04U
362	MDF FIBER PATCH PANEL ENCLOSURES	Corning EDGE-04U
363	BDF/IDF FIBER TERMINATION PLATE	<b>SINGLEMODE:</b> Corning CCH-CS24-AE-P00RE <b>MULTIMODE:</b> Corning CCH-CS24-AD-P00QE
364	MDF FIBER TERMINATION PLATE	<b>SINGLEMODE:</b> Corning ECM-RM12-04-89G <b>MULTIMODE:</b> Corning ECM-TM12-05-93Q
365	LABELING	PANDUIT TURN-TELL AND PANDUIT COLOR BAND
366	<b>27 20 00 - DATA COMMUNICATIONS</b>	
367	BDF/IDF COPPER EDGE SWITCH	CISCO C9300-48UN, UXM (minimum 1 UXM per BDF/IDF)
368	INTERIOR WIRELESS ACCESS POINT	ARUBA 550 SERIES
369	OUTDOOR WIRELESS ACCESS POINT	ARUBA 570 OR 518 SERIES
370	<b>27 30 00 - VOICE COMMUNICATIONS</b>	
371	VOIP CALL MANAGER SYSTEM	CISCO UNIFIED COMMUNICATIONS MANAGER
372	VOIP WALL/DESK PHONE	CISCO 8841, 8851
373	PAGING/MASS NOTIFICATION	CISCO VOIP PHONE, ATLAS IP-SDMF
374	MASS NOTIFICATION SYSTEM	SINGLEWIRE INFORMACAST
375	<b>27 40 00 - AUDIO-VIDEO COMMUNICATIONS</b>	
376	AUDIO VISUAL CONTROL SYSTEM	UTELOGY, EXTRON
377	AUDIO VISUAL SWITCHER	EXTRON
378	PROJECTOR	EPSON, PANASONIC, NEC
379	PROJECT SCREEN	DA-LITE, EPSON, ELITE
380	INTERACTIVE DISPLAY	VIEWSONIC, EPSON, SMART TECHNOLOGIES
381	LARGE FORMAT DIGITAL DISPLAYS	VIEWSONIC, NEC, PANASONIC, SONY
382	LECTERN	SPECTRUM FREEDOM XRS, DWI ENTERPRISES
383	DOCUMENT CAMERA	EPSON, ALMO (models with both HDMI and USB output)
384	ASSISTIVE LISTENING DEVICE	LISTEN TECHNOLOGIES
385	MICROPHONE	SHURE
386	ANNOTATION DEVICE	SMART TECHNOLOGIES
387	CLASSROOM LIGHTING CONTROL	CRESTON, LUTRON
388	SPEAKERS	JBL (primary) EXTRON (ceiling tile replacement)
389	PC COMPUTERS	HP ELITE SERIES
390	LECTURE CAPTURE	PANOPTP, ENSEMBLE
391	<b>DIV. 28: ELECTRONIC SAFETY &amp; SECURITY</b>	
392	<b>28 10 00 ELECTRONIC ACCESS CONTROL</b>	
393	CARD READERS	HID iCLASS SE Readers with Terminal Strip. All Readers Wired using RS-485 for OSDP Communication

WLAC STANDARD		CAMPUS ALTERNATIVES
394	CREDENTIALS	HID Global 5006PGGAN with LACCD Corporate 1000 Format: H800003
395	ACCESS CONTROL WIRING	BELDEN 658GMS BANANA CABLE AND CAT6A F/UTP (2 DATA DROPS REQUIRED PER CARD READER OR DOOR CONTACT LOCATION)
396	ACCESS CONTROL PANEL	LENEL LNL-X4420
397	POWER SUPPLY AND ENCLOSURES	LIFESAFETY POWER FPO150/250-3D8P2M8NL4E8M2/P16 WITH BDM OR FPO250/250/250-8M8PNLXE12M/P24 WITH BDM
398	DOOR POSITION SWITCH	SCHLAGE 7764
399	REQUEST TO EXIT SENSOR	BUILT INTO LOCKSET (MOTION DETECTION REX ARE NOT ACCEPTABLE)
400	ELECTRONIC LOCKDOWN BUTTON	STI SS2026LD-EN with 6/18 cable to Access Control Panel
401	PHYSICAL ACCESS CONTROL SYSTEM	LENEL ONGUARD ENTERPRISE
402	<b>28 20 00 ELECTRONIC SURVEILLANCE</b>	
403	IP SECURITY CAMERA 90 DEGREE	Axis COMMUNICATION P3248-LV, P3248-LVE
404	IP SECURITY CAMERA 180 DEGREE	AXIS COMMUNICATION Q3709-PVE, P3807-PVE
405	IP SECURITY CAMERA 360 DEGREE	AXIS COMMUNICATION Q6100-E, P3719-PLE
406	IP SECURITY CAMERA PAN/TILT/ZOOM	AXIS COMMUNICATIONS Q6128-E
407	IP SECURITY CAMERA ELEVATOR	AXIS COMMUNICATION P9106-V
408	IP SECURITY CAMERA LICENSE PLATE READER	Axis COMMUNICATION Q1700-LE
409	EXTERIOR CAMERA MOUNTS	<b>WALL:</b> AXIS T91D61 <b>POLE:</b> AXIS T91B67 <b>CEILING:</b> AXIS T91B50 <b>PARAPET:</b> AXIS T91D62 <b>CORNER:</b> AXIS T91A64
410	VIDEO MANAGEMENT SERVER	BCD Video BCD212XH-MGMT-SRV-LACCD
411	VIDEO RECORDING SERVER	BCD VIDEO BCD215XH-EVS-LACCD-180T
412	VIDEO MOBILE STREAMING SERVER	BCD VIDEO BCD212XH-MOBILE-LACCD
413	VIDEO WORKSTATION	BCD Video BCD-H-I9-TWS-LACCD
414	VIDEO MANAGEMENT SYSTEM SOFTWARE	MILESTONE XPROTECT CORPORATE
415	<b>28 30 00 - ELECTRONIC DETECTION AND ALARM</b>	
416	ALARM MONITORING SYSTEM	LENEL ONGUARD ENTERPRISE
417	PANIC BUTTONS	CISCO VOIP PHONE, BOSCH ISC-PB1-100
418	MOTION DETECTOR	<b>CEILING:</b> BOSCH DS9370 <b>WALL:</b> BOSCH ISC-PDL1-WAC30G
419	GLASSBREAK DETECTOR	BOSCH DS1103I
420	ALARM CONTROL PANEL	BOSCH B9512G
421	ALARM KEYPAD	BOSCH B942 TOUCHSCREEN
422	TOWER EMERGENCY PHONE	TALK-A-PHONE WEBS-MT/R-OP4-OP2 WITH VOIP-500E
423	WALLMOUNT EMERGENCY PHONE	TALK-A-PHONE ETP-WMS WITH VOIP-500E
424	<b>FIRE ALARM SYSTEM</b>	
425	GENERAL	SIEMENS
426	FIRE ALARM PULL STATION	SUBJECT TO WLAC APPROVAL
427	SPEAKER/STROLL AMBER ALERT	SUBJECT TO WLAC APPROVAL
428	<b>DIV. 32: EXTERIOR IMPROVEMENTS</b>	
429	ANTI GRAFFITI PRODUCTS	3M FILMS
430	<b>IRRIGATION SYSTEMS</b>	
431	IRRIGATION CONTROLLER	HUNTER

	WLAC STANDARD	CAMPUS ALTERNATIVES
432	IRRIGATION - SPRINKLER HEAD	HUNTER 540-4" POP-UP, RAINBIRD 1800
433	IRRIGATION - HEADS	HUNTER I-40 HEADS, HUNTER I-20 HEADS
434	IRRIGATION - CONTROL VALVES	SUPERIOR 950
435	IRRIGATION - PIPES	SCHEDULE 40 PVC PIPE
436	IRRIGATION - FITTINGS	MARLEX SCHEDULE 80 SOCKED WELD FITTINGS
437	IRRIGATION SYSTEMS	HUNTER
438	OUTDOOR FURNITURES	DESIGNER TO SUBMIT FOR WLAC APPROVAL
439	PAVEMENT MARKINGS	DUNN-EDWARDS
440	CONTROLLER REMOTE SITE MANAGEMENT	Toro TriComm Site Management
441	CONTROLLER HAND-HELD REMOTE CONTROL	Toro TMR-1
442	CONTROLLER ENCLOSURE	HUNTER
443	RAIN SENSOR	HUNTER
444	CONTROL WIRE - COMMON	Paige P7001D 12 AWG White
445	CONTROL WIRE - HOT	Paige P7001D 14 AWG Colored
446	WATERPROOF WIRE CONNECTOR	Spears DS-500 Dri-Splice
447	GROUNDING ROD	Paige 182007 with Paige 1820037P Connection
448	DIELECTRIC CONNECTION	Approved by Electrical Engineer
449	BOOSTER PUMP	Barrett Irriboost with Variable Speed Drive and SS Enclosure
450	BASKET STRAINER	Yardney SBx-T Series
451	BASKET STRAINER ENCLOSURE	V.I.T. Strong Box SBBC-xxSS with QP Option
452	PRESSURE REGULATOR	Wilkins 500 Series
453	MASTER VALVE	Toro 220 Brass or Toro P-220S Plastic
454		or Rainbird P220 Brass series with Pressure regulator
455	FLOW SENSOR	Toro TFS Series
456	GATE VALVE (2" and SMALLER)	Nibco T-113 Series
457	GATE VALVE (2 1/2" and LARGER)	RESILIENT WEDGE GATE VALVE
458	BALL VALVE (2" and SMALLER)	Nibco T-585-70 Series
459	AIR RELEASE VALVE	Cla-Val #33-A Series
460	QUICK COUPLING VALVE	Rain Bird #44-NP or TORO #44 NP Series
461	ELECTRIC CONTROL VALVE	SUPERIOR 950 SERIES
462	DRIP ZONE	NETAFIM
463	VALVE BOX	NDS Pro Plus Series (green plastic with purple bolt-down cover)
464	MAINLINE PIPING (6" and LARGER)	Pacific Plastics or equal CL200 PVC Gasketed
465	MAINLINE PIPING (2" - 4")	Pacific Plastics or equal CL315 Solvent-Weld PVC
466	MAINLINE PIPING (1 1/2" and SMALLER)	Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Sch 80 PVC
467	LATERL LINE PIPING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC SCH 80 PVC
468	PIPE / WIRE SLEEVING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC
469	PIPE FITTINGS (MAINLINE)	Spears or equal SCH 80 PVC
470	PIPE FITTINGS (LATERAL LINES)	Spears or equal SCH 40 PVC
471	ARTIFICIAL TURF COOLING SYSTEM HEADS	Toro TS90TP Series
472	LARGE TURF ROTOR HEADS	HUNTER

WLAC STANDARD		CAMPUS ALTERNATIVES
473	MEDIUM ROTOR HEADS	HUNTER
474	SMALL ROTOR HEADS	HUNTER
475	FIXED SPRAY HEADS	RAINBIRD
476	FLOOD BUBBLER	Toro 570Z-PRX-COM-E with Toro FB-PC Nozzle
478	DRIP LINE SYSTEMS	NETAFIM
479	DRIP SYSTEM FITTINGS / ACCESSORIES	NETAFIM
480	BIRD DETERRANTS	EAGLE EYE BIRD CONTROL OR EQUAL
481		√ Bird B Gone
482	GROUND PREPARATION FOR LANDSCAPING	NO CONCRETE OR ASPHALT PIECES AND NO AGGREGATE OVER ¼", NEW TOP SOIL REQUIRED TOP 6"
483	<b>LANDSCAPE DESIGN</b>	
484	LARGE TREES	Quercus agrifolia [Coast live oak]
485	MEDIUM TREES PRIMARILY FOR SHADE	Quercus ilex [Holly oak]
486		Ulmus parvifolia 'Drake' [Drake Chinese Elm]
487	SMALL TREES FOR FLOWERS & FRAGRANCE	√ Bauhinia 'Blakeana' [Hong Kong orchid tree]
488	n	√ Cassia leptophylla [Gold medallion tree]
489	n	√ Lagerstromia indica [Crape Myrtle]
490	n	√ Tabebuia lpe [ Pink trumpet tree]
491	SHRUBS INACTIVE AREAS	Achillea spp. [Yarrow]
492	n	Arctostaphylos 'Sunset' [Sunset manzanita]
493	n	Carpenteria Calif. [Bush anemone]
494	n	Fremontedendron 'California gold' [California fremontia]
495	n	Garrya elliptica [Coast silk tassel]
496	n	Heteromeles arbutifolia [Toyon]
497	n	Heuchera sp. [Alum root]
498	n	Penstemon 'Margarita BOP'
499	n	Rhamnus calif. 'San Bruno's mound' [Coffeeberry]
500	n	Rhus integrifolia, [Lemonade berry]
501	n	Ribes sanguineum [Pink flowering currant ]
502	n	Ribes viburnifolium, [Catalina evergreen currant]
503	n	Romneya coulteri [Matilija poppy]
504	SHRUBS IN IRRIGATED AREAS	Agave attenuata, [Fox tail agave]
505	n	Anigozanthus sp., [Kangaroo paw]
506	n	Baccharis pilularis 'Pigeon point' [Coyote bush]
507	n	Callistemon 'Little John' Little John bottlebrush
508	n	Cistus sp. [Rockrose]
509	n	Coelonema pulchrum, [Pink breath of heaven]
510	n	Cotoneaster sp. [Cotoneaster]
511	SHRUBS IN IRRIGATED AREAS	Elaeagnus pungens [Silverberry]
512	n	Hemerocallis sp. [Daylily]
513	n	Juniperus sp. [Juniper]
514	n	Leptospermum sp. [Australian tea tree]
515	n	Ligustrum texanum [Texas privet]

WLAC STANDARD			CAMPUS ALTERNATIVES
516	n	<input type="checkbox"/>	Myrtus communis [Myrtle]
517	n	<input type="checkbox"/>	Osmanthus fragrans [Sweet olive]
518	n	<input type="checkbox"/>	Phormium tenax [Flax]
519	n	<input type="checkbox"/>	Pittosporum tobira sp. [Tobira]
520	n	<input type="checkbox"/>	Raphiolepis indica sp. [Indian hawthorne]
521	n	<input type="checkbox"/>	Rosmarinus officinalis [Rosemary]
522	n	<input type="checkbox"/>	Viburnum tinus sp. [Laurustinus]
523	n	<input type="checkbox"/>	Westringia fruticosa [Coast rosemary]