

LOS ANGELES VALLEY COLLEGE

CAMPUS STANDARDS- MATRIX

PLEASE READ & FOLLOW THE DIRECTIONS PROVIDED BELOW

"The Campus Standards Guidelines is to be used as a guide . Los Angeles Valley College has a comprehensive design standards which governs the design of any of our proects. 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 LAVC 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

COLLEGE PREFERRED PRODUCT       POSSIBLE OPTION

LAVC STANDARD		CAMPUS ALTERNATIVES
<b>1 DIV. 07: THERMAL &amp; MOISTURE PROTECTION</b>		
<b>2 ROOFING</b>		
<b>3 GENERAL</b>	<input checked="" type="checkbox"/>	GAF, Johns Manville or Sarnafli, no single ply. Build-up roof multi-ply per District Standards.
	<input checked="" type="checkbox"/>	Modified Bitumen 30-yr Garland, 4-yr ply. Build-up roof multi-ply
<b>5 FIREPROOFING</b>		
<b>6 GENERAL</b>	<input checked="" type="checkbox"/>	Monokote, CAFCO
<b>7 BITUMINOUS DAMPPROOFING for cold application</b>	<input checked="" type="checkbox"/>	WR MEADOWS, HENRY, CARLISLE COATINGS OR EQUAL
<b>8 SELF-ADHERING SHEET WATERPROOFING</b>	<input checked="" type="checkbox"/>	WR MEADOWS, HENRY, CARLISLE COATINGS OR EQUAL
<b>9 DIV. 08: OPENINGS</b>		
<b>10 HARDWARE</b>		
<b>11 KEYS</b>	<input checked="" type="checkbox"/>	SARGENT SIGNATURE
<b>12 CYLINDERS</b>	<input checked="" type="checkbox"/>	SARGENT SIGNATURE I/C
<b>13 LEVER LOCKSETS</b>	<input checked="" type="checkbox"/>	SARGENT SIGNATURE I/C
<b>14 Lockset</b>	<input checked="" type="checkbox"/>	SARGENT SIGNATURE I/C
<b>15 CABINET LOCKSETS</b>	<input checked="" type="checkbox"/>	Olympus, Haworth, HON
<b>16 HINGES</b>	<input checked="" type="checkbox"/>	HAGER, MARKAR 300 SERIES, CONTINUOUS STAINLESS STEEL
<b>17 EXIT DEVICES</b>	<input checked="" type="checkbox"/>	SARGENT
<b>18 KEY REMOVABLE MULLION POST for double door exit device opening</b>	<input checked="" type="checkbox"/>	SARGENT
<b>19 CLOSER</b>	<input checked="" type="checkbox"/>	SARGENT
<b>20 ADA COMPLIANT PEDESTRIAN SWING DOOR OPERATOR</b>	<input checked="" type="checkbox"/>	BESAM
<b>21 CARD READER</b>	<input checked="" type="checkbox"/>	HID-ICLASS SE 13.56 MGHZ, R40 Typ. For iClass card (sole-source). Requires ICLASS Standard Capability, 920NTNTEK00000 (typical model) Able to work with the Lenel System
<b>22 ELECTRIC STRIKES: RIM EXIT DEVICES</b>		HES -9500 FRAME MOUNTED, HES-9600 MULLION MOUNTED
<b>23 ELECTRIC CYLINDRICAL LOCKS</b>		HES 8300 ,field modification, cutting Fire Door frame SHALL NOT BE PERMITTED
<b>24 KEY SYSTEMS</b>	<input checked="" type="checkbox"/>	SARGENT SIGNATURE
<b>25 ANTI VANDAL PULL</b>		TRIMCO
<b>26 ARMOR COLLAR</b>		KEEDEX K-24
<b>27 ASTRAGAL</b>		PEMKO 355S
<b>28 AUTO DOOR OPERATOR</b>	<input checked="" type="checkbox"/>	BESAM

	LAVC STANDARD	CAMPUS ALTERNATIVES
29	AUTO DOOR CLOSER	✓ BESAM
30	AUTO FLUSH BOLT	✓ MCKINNEY / ROCKWOOD
31	BOLLARD ACTUATOR	✓ WIKK
32	BOLLARD POST	✓ WIKK - PBA IG-R HIGH/LOW
33	BUTT HINGES	✓ BOMMER / HAGER / MCKINNEY
34	CONTINUOUS HINGE	✓ MARKAR / MCKINNEY / PEMKO
35	COORDINATORS	✓ DCI / MCKINNEY / ROCKWOOD
36	DOOR BOTTOM	PEMKO 216PK
37	DOOR BOTTOM	PEMKO 217PK
38	DOOR STOPS	✓ TRIMCO, MCKINNEY / ROCKWOOD
39	DOOR SWEEP	✓ MCKINNEY / ZERO
40	DUST PROOF STRIKE	TRIMCO 3911
41	ELECTRIC LOCKSET	✓ SARGENT
42	ELECTRICAL CABINET KEYING	✓ LL803
43	FIRE ALARM PANEL KEYING	✓ B'
44	I/C CORE CYLINDER	✓ SARGENT SIGNATURE
45	I/C MORTISE CYLINDER	✓ SARGENT SIGNATURE
46	I/C RIM CYLINDER	✓ SARGENT SIGNATURE
47	KEYING OF CYLINDER	✓ FACTORY SARGENT SIGNATURE
48	KICK PLATE	TRIMCO KO050 - 10 X 2 LDW B4E
49	LATCHSET	✓ SARGENT
50	MOP PLATE	TRIMCO KM050 - 6 X 1 LDW B4E
51	MULLION SEAL	✓ MCKINNEY / PEMKO / ZERO
52	OVERHEAD COILING DOOR KEY SWITCH CONTROL	VEE INDUSTRIES, INC. 1 KX SURFACE MOUNT KEY SWITCH
53	OVERHEAD STOPS	GLYNN-JOHNSON
54	POWER SUPPLY	✓ SECURITRON
55	POWER TRANSFER	✓ ELECTRIFIED HINGE
56	PRIVACY	✓ SARGENT
57	PUSH/PULLS	TRIMCO
58	REMOVABLE MULLION	VON DUPRIN KR4954 X MT54
59	SILENCERS	TRIMCO 1229A
60	SMOKE SEALS	✓ MCKINNEY / ZERO
61	SURFACE CLOSER	✓ SARGENT
62	THRESHOLD	✓ MCKINNEY / ZERO
63	WALL ACTUATOR	✓ USE SAME AS MAC
64	WALL BUMPER	TRIMCO 1270CVPV
65	WEATHERSTRIP	✓ MCKINNEY / ZERO
66	WIRELESS RECEIVER	LCN 8310-865
67	ACCESS DOORS	✓ BAUCO, KARP ASSOCIATES INC. , JL INDUSTRIES
68	EXTERIOR CEILING DOOR	✓ COOKSON COMPANY
69	FIRE RATED AUTOMATIC	✓ COOKSON COMPANY
70	INSULATED ELECTRIC OPERATION	✓ OVERHEAD DOOR CORPORATION
71	OVERHEAD COILING GRILLES	✓ COOKSON COMPANY, PACIFIC ROLLING DOORS
72	FOLDING DOORS	✓ MODERNFOLD, WONDOR
73	ALUMINUM-FRAMED ENTRANCES & STORE FRONT	✓ CONTINENTAL

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74	GLASS ENTRANCES & STOREFRONT	✓ CONTINENTAL
75	ALUMINUM WINDOWS	✓ WAUSAU, MODU-LINE 2250 SIGNATURE SERIES 12E, THERMAL BREAK WINDOW
76	FLAGPOLES	✓ MORGAN-FRANCIS CO. INC.
77	DIRECTORIES & BULLETIN BOARDS	✓ GREENSTEEL INC.
78	HOLLOW METAL DOORS, MINIMUM REQUIREMENTS	✓ SDI LEVEL III CURRIES - POLYSTYRENE 707 T CORE
79	HOLLOW METAL FRAMES, MINIMUM REQUIREMENTS	✓ 14 GA COLD ROLLED STEEL
80	MARBLE THRESHOLDS AT TOILET ROOM ENTRANCES	GROUP "A" MARBLE AS CLASSIFIED BY THE MARBLE INSTITUTE OF AMERICA
81	METAL DOOR LOUVERS ( AT RATED OPENINGS)	ANEMOSTAT FLDL-UL-SG2 LOUVER
82	METAL DOOR LOUVERS (AT NON-RATED OPENINGS)	ANEMOSTAT PLSL LOUVER
83	DECORATIVE FILMS	3M, LLUMAR/VISTA, METROPOLITAN WEST
84	<b>DIV. 09: FINISHES</b>	
85	<b>FLOOR/ WALL FINISHES</b>	
86	CARPET	✓ Tandus or equal
87	RESILIENT FLOORING	✓ Armstrong, IFPC (MOLD RESISTANT)
88		Mannington, FORBO, ESTRI, PARTERREE
89	CARPET MODULES	✓ Tandus 36X36 mold resistant
90	RESILIENT TILES/SHEET FLOORING	✓ Armstrong, Johnsonite
91		Mannington, FORBO,
92	WALL BASE	✓ Armstrong, Johnsonite
93		Mannington , Burke, Roppe
94	PORCELAIN TILE-CERAMIC	✓ Specific to design standard with installation floor to ceiling
95	WALL COVERINGS	✓ DUNN EDWARDS, Benjamin Moore, Vista Paint
96	PAINT	✓ DUNN EDWARDS, Sherwin Williams, Vista Paint, Frazee
97	HIGH PERFORMANCE COATINGS	✓ Scuffmaster BY Master Coating Technologies, Dunn Edwards
98	EPOXY FLOORING-(EXTERIOR)	✓ NEOGARD
99	FLOOR MATS/WALK-OFF MATS	✓ TANDUS (DISTRICT CONTRACT IN EFFECT)
100	HARD SURFACE (GYMNASIUM)	✓ MONDO, AACER, NOBLE HOUSE, TERAFLEX
101	GRAFFITI RESISTANT COATINGS	✓ PERMASHIELD PREMIUM OR GENESIS COATING
102	GRAFFITI RESISTANT FILM	✓ 3M, JOHNSON WINDOW FILMS
103	RAISED FLOORING SYSTEMS	Tate, Maxcess, Interface AR (Carpet)
104		✓ ACCESS FLOOR CO
105	RESILIENT TILES/SHEET FLOORING	JOHNSONITE
106		✓ ARMSTRONG
107	SEAMLESS FLOORING	JOHNSONITE, MANNINGTON
108		✓ ARMSTRONG
109	VCT	✓ ARMSTRONG, JOHNSONITE
110		MANNINGTON OR EQUAL
111	RESINOUS FLOORING-EPOXY	STONHARD, TNEMEC
112		✓ CROSSFIELD PRODUCTS
113	FIBERGLASS REINFORCED PLASTIC PANELS	✓ MARLITE
114		KEMLITE/CRANE, GLASTEEL
115	TILE - GENERAL	✓ DALE TILES

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116	MOTAR/GROUT FOR TILES	✓ PRO PREMIUM GROUT BY LATICRETE, Mapei
117	TERRAZZO/MARBLE TILES	✓ FRITZTILE OR EQUAL
118	CEMENTITIOUS GROUT (FLOOR TILE)	✓ LATICRETE® PERMACOLOR™, OR APPROVED EQUAL.
119	EPOXY GROUT (WALL TILE)	✓ LATICRETE® SPECTRALLOCK® PRO PREMIUM GROUT
120	FLOOR TILE	DALTILE, OR APPROVED EQUAL.
121		✓ ARMSTRONG
122	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)
123	WALL TILE	✓ DALTILE, OR APPROVED EQUAL.
124	WATERPROOF MEMBRANE	✓ LATICRETE® HYDRO BARRIER™, OR APPROVED EQUAL.
125	FIELD TILE	✓ FIELD AND BASE DALTILE SEMI-GLOSS 4" X 4", ACCENT TILE, DALTILE SEMI-GLOSS 4"X4"
126	EXTERIOR PLASTER	✓ LA HABRA, HIGHLAND
127	RESILIENT WALL	BURKE FLOORING PRODUCTS
128		✓ ROPPE JOHNSON RUBER CO.
129	PHOTOVOLTAICS	✓ SHELL SOLAR
130	<b>CEILING SYSTEMS</b>	
131	ACOUSTICAL TILE	✓ ARMSTRONG 1729 FIND FISSURED (RH90, 24" X 48" X5/8"
132	GRID SYSTEM	✓ ARMSTRONG PRELUDE
133	ACOUSTIC SUSPENSION SYSTEM	✓ AcoustiColor 2X4 preferred, ARMSTRONG TOTAL ACOUSTICS, CHICAGO METALLIC CO.
134		USG
135	INTERIOR SUSPENDE LIGHTS	✓ PRUDENTIAL
136	WALL & CEILING ACCESS DOORS	✓ SQUARE OR RECTANGULAR FRAMES WITH HINGED LOCKED DOOR
137	<b>DIV. 10: SPECIALTIES</b>	
138	SOAP DISPENSERS	DESIGNER TO SUBMIT FOR LAVC APPROVAL
139	PAPER TOWEL DISPENSERS	✓ WAXIE, APC(LT-108) Quick Touch, SuperMax Jumbo Tissue dispenser(SuperMax#855807)
140	Toilet paper dispensers	✓ BOBRICK MODEL B-2892 SURFACE-MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER
141	BATHROOM PARTITIONS	✓ BOBRICK SIERRASERIES® WATER-AND FIRE-RESISTANT SOLID COLOR REINFORCED COMPOSITE TOILET PARTITIONS AND URINAL SCREENS, Flush metal
142	RESTROOM ACCESSORIES	✓ BOBRICK
143	STORAGE/TRANSFER	✓ Tyga-Box System or EQUAL
144	LOCKERS - GENERAL	✓ PENCO, List Industry
145	MARKER BOARD	✓ EGAN VISUAL
146	TACKBOARDS	ABC SCHOOL SUPPLIES , ADP LEMCO
147	OPERABLE PARTITIONS	✓ WON DOOR
148	WALL AND CORNER GUARDS	✓ BALCO
149	DIAPER-CHANGING STATION	✓ KOALA KARE PRODUCTS MODEL KB-110-SSWM HORIZONTAL WALL MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION
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	✓ <b>Not recommended</b>

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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,
158	SHOWER CURTAIN RODS	✓ BOBRICK MODEL B-6107 HEAVY-DUTY SHOWER CURTAIN ROD,
159	SHOWER CURTAINS	✓ BOBRICK MODEL 204-3 VINYL SHOWER CURTAIN,
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.
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 EVACU-TRAC CD7 or better
168	REMOVABLE STEEL BOLLARD	CALPIPE SECURITY BOLLARDS, RELIANCE FOUNDRY
169	FLEXIBLE BOLLARDS	RELIANCE FOUNDRY, BC CANADA
170	<b>FIRE EXTINGUISHERS/ CABINET W/LOCKS</b>	
171	FULL GLASS DOOR	✓ J.L. INDUSTRIES (KEY # LL24), POTTER-ROEMER, LARSEN'S
172	<b>DIV. 11: EQUIPMENT</b>	
173	FOOD SERVICE EQUIPMENT	Hobart, Wolfe, Dwyer
174	KITCHEN, APPLIANCES	GE, Samsung, Whirlpool, KitchenAid
175	LOADING DOCK LEVELERS	MECHANICAL TYPE ONLY
176	PROJECTION SCREENS/DISPLAY	DA-LITE,
177	PROJECTOR MOUNTS	CHIEF MAUNFACTURING OR EQUAL
178	LAB FUME HOOD	KEWAUNEE SCIENTIFIC, HANSON LAB FURNITURE
179	<b>DIV. 12: FURNISHINGS</b>	
180	WINDOW SHADES	MECHO-SHADE CORP OR EQUAL
181	METAL LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB FURNITURE, HAMILTON
182	LAMINATED CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB FURNITURE
183	WOOD LAB CASEWORK	KEWAUNEE SCIENTIFIC, HAMILTON LAB SOLUTIONS
184	<b>BLEACHERS</b>	
185	INTERIOR, GYMNASIUM, TELESCOPIC, STND.	✓ Irwin Telescopic
186	<b>WINDOW COVERING</b>	
187	SOLAR SHADE	✓ Suntec

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188	BLINDS - VERTICAL/ HORIZONTAL	Levolor, Hunter-Douglas
189		✓ Rivera
190	<b>BIKE RACK</b>	
191	GENERAL	✓ Match existing Bike Racks
192	<b>DIV. 13: SPECIAL CONSTRUCTION</b>	
193	MODULAR STRUCTURES	✓ Aurora
194		GE, Williams Scotsman
195	<b>DIV. 14: CONVEYING EQUIPMENT</b>	
196	STANDARD ELEVATORS	DESIGNER TO SUBMIT FOR LAVC APPROVAL
197	CONTROLLER	MOTION CONTROLS.....CONTROLLER CANNOT BE PROPRIETARY
198	ELEVATOR DOORS Graffiti proof interior	GAL DOOR EQUIPMENT
199	ELEVATOR CAB LIGHT FIXTURE	ERIM FIXTURES
200	WHEELCHAIR LIFTS	Garventa, TL Shield
201	HYDRAULIC ELEVATORS-PASSENGER	mitsubishi, OTIS, KONE
202	HYDRAULIC ELEVATORS-FREIGHT	mitsubishi, OTIS, SCHINDLER
203	<b>DIV. 21: FIRE SUPPRESSION</b>	
204	HYDRANTS	James Jones, Clow Valve, Rich Valve
205	<b>DIV. 22: PLUMBING</b>	
206	<b>PIPE</b>	
207	DOMESTIC, /POTABLE	✓ C900 Blue, Copper K, #80 PVC
208	UNDERGROUND WATER IRRIGATION PIPING	✓ Schedule 40 and schedule 80 PVC 1/2" to 3" CVPC chlorinated polyvinyl
209	UNDERGROUND SANITARY PIPING	✓ Cast iron, SDR-35 ASTM A888, CISPI 301
210	ABOVE GROUND SANITARY PIPING	✓ Cast Iron Tyler Pipe /DWV Copper
211	PIPE TUBING AND FITTINGS	C-900 Mega Lug FTGs Approved CI Conn Flange
212	STEEL PIPE FUEL GAS/NATURAL GAS	✓ Black Schedule 40 indor only with similar fittings
213	STEEL PIPE WATER OR AIR	✓ Galvanized Domestic only - No Substitute, or black schedule 40
214	BRASS PIPE	✓ Red Brass, Schedule 40 lead free
215	COPPER TUBING	✓ Type "K" below grade or Type "L" above grades only, No substitutes
216	BRASS SCHEDULE 40 SOLDER JOINT FTG's	✓ Domestic
217	SCREWED FITTINGS	✓ Domestic
218	GAS PIPING UNDERGROUND	✓ Poly Pipe, Steel transition, yellow tracer wire, Butt fusion or ssocket
219	BUILDING DRAIN, WASTE & VENT	✓ Cast iron no hub, no hub couplings, Cast Iron, Ftgs. / DWV Copper ANANCO
220		Tyler MS coupling
221	PIPE AND FITTINGS	✓ Standard D2751-88 Cast iron, no hub pipe and fittings, waste
222	<b>PLUMBING FIXTURES</b>	
223	TOILET FIXTURES (Low Flow, Viterous China)	✓ American Standard, Kohler
224	SINKS	✓ American Standard, Kohler
225	STOP FITTING	✓ Chicago Faucets model 1013-ABLP, Crane
226	KITCHEN SINKS	✓ Elkay, Kohler, stainless steel
227	SERIVCE SINKS	✓ American Standard, Kohler
228	URINALS (Low Flow)	✓ American Standard, Kohler
229	URINALS (Waterless)	Kohler
230	FAUCETS	✓ Chicago-automatic or manual, Kohler
231	FLUSH VALVES - TOILETS, URINALS	✓ Sloan only - manual or sensor - no zurn
232	DOMESTIC WATER HEATER	✓ A.O. Smith, American
233	CIRCULATING PUMP	✓ Bell and Gossett, Grundfos with equal times

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<b>234 PLUMBING VALVES AND ACCESSORIES</b>		
235 <b>GENERAL</b>	✓	Nibco or equal domestic product only, lead free where applicable
236 <b>EXPANSION TANKS</b>	✓	AMTROL, Bell and Gossett, Watts
237 <b>BACKFLOW PREVENTERS</b>	✓	Watts, Wilkins, FEBCO
238 <b>CLEAN OUTS</b>	✓	J.R. Smith, Zurn, NIBCO
239 <b>FLOOR DRAINS</b>	✓	J.R. Smith, Zurn, MIFAB
240 <b>TRAP PRIMERS</b>	✓	PPP Inc
241 <b>ROOF DRAINS</b>	✓	J.R. Smith, Zurn, Josam
242 <b>BALL VALVES</b>	✓	NIBCO (Brass, Full Port), Accorn
243 <b>GATE VALVES</b>	✓	NIBCO (Union Bonnet, Raised Stem) Accorn
244 <b>GLOBE VALVES</b>	✓	NIBCO (Brass)
245 <b>CHECK VALVES</b>	✓	NIBCO (Brass)
246 <b>VALVES( WATER, BELOW GROUND)</b>	✓	Stockham (Cast Iron Flanged AWWA with operating unit) Epoxy Coated Only
247 <b>Backwater</b>	✓	J R Smith
248 <b>Drain Pumps</b>	✓	Swaby, Weil Pump, PACO, Peerless
249 <b>Drainage</b>	✓	Zurn, J R Smith
250 <b>CHECK VALVES</b>	✓	Milwaukee, Zurn, Combraco, Williams Gage
251 <b>Drainage System</b>	✓	Zurn, J R Smith
252 <b>Electric Self regulating T&amp;M Cable</b>	✓	Raycem Corp
253 <b>Trench Funnel Drains</b>	✓	Stockham Valves & Fittings Co.
254 <b>Hose Bibb Box</b>	✓	ACORN NO. 8141/8102, ZURN 1350-5-LD
255 <b>Piston Water Hammer</b>	✓	MIFAB MWA Series
256 <b>Shower heads &amp; Faucets</b>	✓	Symmons
257 <b>Boiler</b>	✓	Raypack
<b>258 EMERGENCY EYEWASH &amp; SHOWER</b>		
259 <b>EMERGENCY EYEWASH &amp; SHOWERS</b>	✓	Haws
<b>260 WATER FOUNTAINS</b>		
261 <b>DRINKING</b>	✓	Haws, HalsyTaylor
<b>262 DIV. 23: HEATING, VENTILLATION &amp; AIR CONDITIONING (HVAC)</b>		
263 <b>A/C UNITS, ROOF MOUNTED</b>	✓	(gas Electrics / Heat Pumps) Carrier, York, Trane
264 <b>A/C UNITS WALL MOUNTED</b>	✓	Bard, Trane, Carrier
265 <b>AIR HANDLERS – CUSTOM</b>	✓	Temptrol, TRANE, Energy Labs
266 <b>AIR HANDLERS</b>	✓	Carrier, Energy Labs,TRANE, York
267 <b>HVAC HYDRONIC CONTROL VALVE</b>	✓	Belimo
268 <b>HVAC HEATING &amp; COOLING CONTROL VALVE</b>	✓	Belimo PICCV two way with reserving switch
269 <b>HVAC HYDRONIC PIPE FLANGE ADAPTER CONNECTIONS</b>	✓	OMNI
270 <b>MOTORS</b>	✓	Baldor, GE, Dayton, Baltimore
271 <b>PUMPS</b>	✓	PACO, Bell & Gossett, Armstrong, TACO
272 <b>COOLING TOWERS</b>	✓	Baltimore Air Coil, Marley, Evapco (Stainless steel)
273 <b>OTHER FILTERS</b>	✓	American, Fan & Triden, 3-M Florence
274 <b>BOILER CONTROLS-HOT WATER</b>	✓	Raypak
275 <b>BOILER CONTROLS-STEAM</b>	✓	Parker
276 <b>FAN COILS DX</b>	✓	Carrier,TRANE, York
277 <b>COMPUTER ROOM AC UNITS</b>	✓	APC, Liebert, Data Aire
278 <b>CHILLED WATER FAN COILS</b>	✓	Carrier,York, TRANE

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279	AIR COOLED CHILLER	✓ Carrier, York, Trane, McQuay
280	CENTRIFUGAL WATER-COOLED CHILLER	✓ Carrier, York, Trane, McQuay
281	SCREW-TYPE AIR COOLED CHILLER	✓ Carrier, York, Trane, McQuay
282	SCREW-TYPE WATER COOLED CHILLER	✓ Carrier, York, Trane, McQuay
283	SCROLL-TYPE AIR COOLED CHILLER	✓ Carrier, York, Trane, McQuay
284	CHILLER-GENERAL	✓ Carrier, York, Trane, McQuay
285	ABSORBTION CHILLER	✓ Carrier, York, Trane, McQuay
286	OTHER ABSORBTION CHILLER	✓ Broad, Thermax
287	VENTILATORS AND EXHAUST FANS	✓ Cook, Greenheck
288	FIRE SMOKE DAMPER	✓ Belmo w/ end switch to communicate to EMS, Ruskin, Kruger
289	VARIABLE FREQUENCY DRIVES	✓ ABB, Danfoss
290	HYDRONIC PIPING	✓ Carbon Steel, Sch 80, Insulated PVC Perma Pipe
291		✓ Thermacor, Rovanco
292	AIR CONIDITIONING THERMOSTAT	✓ HONEYWELL
293		3-heating / 2 cool/heat pump/digital 7 day programable PIN P 374-2800
294	THERMOSTAT LOCK BOX	✓ Honeywell, Large Opaque / PINTG 512B1007
295	Motor Controls	✓ Allen Bradley, Square D, GE
296	<b>DIV. 25: INTEGRATED AUTOMATION</b>	
297	ENERGY MANAGEMENT SYSTEM	✓ WebCTRL
298	<b>DIV. 26: ELECTRICAL</b>	
299	<b>ELECTRICAL FIXTURES</b>	
300	INTERIOR LIGHT FIXTURES(LED) No incandescence light fixture	✓ PRUDENTIAL, LITHONIA, HE WILLIAMS, LIGHTOLIER
301	CONNECT WITH EMERGENCY LIGHTS	✓ Tridium Lighting Controls
302	EXIT SIGNS	✓ LED by ACTIVE SAFETY™, SPECTRON
303	ELECTRONIC WIRELESS WALL CLOCKS	✓ PRIMEX WIRELESS
304	INTERIOR SUSPENDED LIGHTS	DESIGNER TO SUBMIT FOR LAVC APPROVAL
305	<b>LIGHTING/INDOOR-OUTDOOR</b>	
306	VANDAL PROOF LIGHTING FIXTURES	✓ LED by RUDD, STANCO, GE
307	<b>LANDSCAPING FIXTURES</b>	
308	EXTERIOR LIGHTS-PARKING LOT	✓ LED
309	LIGHT SENSORS	"WATT STOPPER", LUTRON
310		✓ LEVITON
311	PARKING LOT	PHILIPS GARDCO, GULLWING LED GL 13 & GL 18
312	ATHLETIC FIELD	✓ MUSCO, MORRIS, LITHONIA
313	<b>ELECTRICAL EQUIPMENT</b>	
314	PARKING CONTROL SYSTEM	✓ ENGINEERED PARKING SYSTEM
315	MAIN SWITCHBOARD	✓ GE, SQUARE D, CUTLER HAMMER, MATCH EXISTING
316	MAIN DISTRIBUTION SWITCHBOARDS	✓ GE, SQUARE D, CUTLER HAMMER, MATCH EXISTING
317	DRY TYPE TRANSFORMERS	✓ WESTINGHOUSE, GE, SQUARE D, CUTLER HAMMER
318	MAGNETIC MOTOR STARTERS	✓ GE, SQUARE D, CUTLER HAMMER
319	SOFT START MOTOR STARTERS	✓ GE, SQUARE D, CUTLER HAMMER, SIEMENS
320	PANELBOARDS	✓ GE, SQUARE D, CUTLER HAMMER, SIEMENS
321	MCC (MOTOR CONTROL CENTERS)	✓ GE, SQUARE D, CUTLER HAMMER
322	DRIVES	✓ ABB, DANFOSS, TOSHIBA, SQUARE D
323	ELECTRICAL FINISH FACE PLATES	✓ STAINLESS FINISH PLATES ( ENGRAVED ON THE FRONT)



LAVC STANDARD		CAMPUS ALTERNATIVES
324	<b>ELECTRIC VEHICLES/ CHARGERS</b>	
325	<b>ELECTRICAL VEHICLES AND CHARGERS</b>	✓ TAYLOR DUNN, EZ-GO CLUB CAR
326	<b>CHARGER Mfr</b>	✓ LESTER
327	<b>EMERGENCY POWER SYSTEM-GRID MATRIX</b>	
328	<b>CONNECT WITH SUMP PUMPS</b>	ALERTRON TO EMERGENCY GRID
329	<b>CONNECT WITH CO2 SENSORS</b>	ALERTRON TO EMERGENCY GRID
330	<b>CONNECT WITH EMS/CMMMS</b>	ALERTRON TO EMERGENCY GRID
331	<b>EMERGENCY MANAGEMENT SYSTEM</b>	
332	<b>LIGHTING EMERGENCY MANAGEMENT SYS</b>	Encelium for building controls
333	<b>ENERGY MANAGEMENT SYSTEM</b>	WebCTRL
334	<b>FIRE PROTECTION</b>	
335	<b>ELECTRONICS</b>	Simplex
336	<b>LIGHTING SUPPLIES</b>	
337	<b>LIGHT BULBS</b>	GE, SYLVANIA, PHILLIPS
338	<b>BALLASTS</b>	GE, SYLVANIA, PHILLIPS 4100K
339	<b>TIMER</b>	EZ Controls - Solid State Electronic
340	<b>EMERGENCY POWER SYSTEMS</b>	
341	<b>GENERATORS</b>	✓ ONAN, CATERPILLAR
342	<b>UPS</b>	✓ APC, EATON
343	<b>INVERTORS</b>	✓ MYERS POWER, LC & D, ENCLIUM
344	<b>DIV. 27: COMMUNICATIONS</b>	
345	<b>Data Center Server Enclosures</b>	✓ APC, NTC, EATON
346	<b>IDF Data Enclosures</b>	✓ APC, NTC, EATON
347	<b>Network Cabling Systems</b>	SIEMON 10G, COPPER TEN
348		✓ GENERAL CABLE - PANDUIT CAT 6 & CAT 6A
349	<b>27 05 00 COMMON RESULTS FOR COMM</b>	
350	<b>Structured Cabling System Warranty</b>	✓ MINIMUM 25 YEAR WARRANTY
351	<b>27 05 26 GROUNDING &amp; BONDING</b>	
352	<b>Bus Bar</b>	LYNCOTE XIT, HARGAR
353		✓ CHATSWORTH, COPPER B LINE
354	<b>27 05 28 PATHWAYS FOR COMM SYSTEMS</b>	
355	<b>EMT Conduits &amp; Couplings &amp; Connectors</b>	APPLETON, CROUSE-HINDS
356	<b>Conduit Supports</b>	KINDORF, UNISTRUT, THOMAS & BETTS
357	<b>Hangers &amp; Cable Ties</b>	CHATSWORTH PRODUCTS, MONO
358		✓ COOPER B-LINE, CADDY
359	<b>Metal Outlet Boxes - Double Gang, Extra Deep</b>	APPLETON, RACO, STEEL CITY
360	<b>Pull Boxes and Cabinets</b>	✓ HOFFMAN ENCLOSURES, CHATSWORTH PRODUCTS
361		WIRE GUARD
362	<b>Cable Tray</b>	✓ COOPER B-LINE, CHATSWORTH PRODUCTS, PANDUIT
363		LEVITON
364	<b>Air Blown Fiber System (ABF)</b>	✓ Sumitomo Electric FutureFLEX
365	<b>IDF Data Enclosures</b>	SIEMON, APC
366		✓ MIDDLE ATLANTIC CHATSWORTH PRODUCTS
367	<b>27 05 43 UG DUCTS &amp; RACEWAY FOR COMMUNICATION</b>	
368	<b>Manholes</b>	UTILITY VAULT (OLDCASTLE), JENSEN, BROOKS
369	<b>Pull boxes</b>	UTILITY VAULT (OLDCASTLE), JENSEN, BROOKS W/ SPRING LOADED LID

	LAVC STANDARD	CAMPUS ALTERNATIVES
370	MH/PB Hardware	INWESCO PRODUCTS
371	Conduits (Schedule 40 or Type C)	✓ PANDUIT
372	Detectable Warning Tape	CARLON
373	Pull, Rope 1700 lb tensile strength	CARLON
374	Bonding ribbon (In vaults)	INWESCO CAT 12A55
375	Bonding ribbon clamps (In vaults)	INWESCO CAT 12A56
376	Fargo Clamp	INWESCO CAT 12A57
377	Ground Rod	INWESCO CAT 12A60
378	Ground Inserts (Cast Bronze)	INWESCO CAT 12H69
379	Manhole Lids	ALHAMBRA FOUNDRY, OPW MANHOLE PREFERRED ROUND COVERS
380	Manhole Ladders	ALHAMBRA FOUNDRY - MODEL A-3382 W/ A3383 SUPPORT BAR
381	<b>27 11 00 COMM EQUIP. ROOM FITTINGS</b>	
382	Ladder Racks	✓ CHATSWORTH PRODUCTS, COPPER B LINE
383	Equipment Racks	APC NETSHELTE, ORTRONICS, PANDUIT
384	Wall-Mounted Cabinets	COOPER B-LINE DAMAC
385		✓ MIDDLE ATLANTIC, CHATSWORTH PRODUCTS
386	Horizontal Managers	SIEMON WM - 145-5
387		✓ CHATSWORTH, ORTRONICS AND APC
388	Fiber Optic Terminals (FOT's)-Housing	✓ PANDUIT, SYSTIMAX
389	Fiber Terminal Adapters and Connectors	SIEMON RIC-FLC6-01
390		✓ LIGHTSTACK LS-12-LC-5V-01, LIGHTSTACK LS-12-LC-SM-01
391	Plywood	✓ ARCH. WOOD PROTECTION
392	Fire Retardant Paint	FLAMORT CO., INC.
393		✓ FIRENOMORE INTERNATIONAL, INTERNATIONAL FIRE RETARDANTS
394	Patch panels	SIEMON, TERA, ZMAX
395		✓ PANDUIT, SYSTIMAX
396	Cable Tags & Splice Labels	3M
397		✓ PANDUIT
398	Protector Panels	✓ EMERSON , CIRCA
399		COMMSCOPE , COOK
400	IP Paging	Singlewire Informacast
401	<b>27 13 00 COMM BACKBONE CABLING</b>	
402	Fiber Tube Cable (OSP and Riser)	✓ SUMITOMO ELECTRIC FUTUREFLEX, Corning, Panduit
403	Fiber Cable - OSP and Riser	✓ SUMITOMO ELECTRIC FUTUREFLEX ABF-50U OM4, Corning, Panduit
404	Copper OSP Cable	✓ SUPERIOR ESSEX, Corning, Panduit
405		COMMSCOPE, GENERAL CABLE
406	Splice Cases - Outside	PREFORMED, PSI
407		✓ 3M, Corning, Panduit
408	Splice Cases - Inside	RELIABLE
409		✓ 3M, Corning, Panduit
410	Splice Bay & Relay Labels	✓ 3M
411		5000 SCOTCHLITE DECAL SYSTEM
412	ABF Tube Clips	SUMITOMO ELECTRIC FUTUREFLEX
413	<b>27 15 00 COMM HORIZONTAL CABLING</b>	
414	Station Cabling	✓ PANDUIT AND SYSTIMAX
415	Jacks	✓ PANDUIT AND SYSTIMAX

LAVC STANDARD		CAMPUS ALTERNATIVES
416	Faceplates	✓ PANDUIT AND SYSTIMAX
417	Emergency Phone	✓ CALL 24
418	Elevator Phone	✓ TALK-A-PHONE ANALOG, CALL-24
419	<b>27 40 00 AUDIO VISUAL</b>	
420	CONTROL SYSTEM	✓ CRESTRON DIGITAL MEDIA, EXTRON
421	PROJECTOR	✓ PANASONIC, EPSON
422	PROJECT SCREEN	✓ DA-LITE, DRAPER, EPSON
423	LECTERN	SPECTRUM FREEDOM XRS, FORBES-AV,VREM AV
424		✓ LISTEN TECHNOLOGIES (ASSISTIVE LISTENING DEVICES)
425	DOCUMENT CAMERA	✓ SAMSUNG, ALMO
426	MICROPHONE	✓ SHURE
427	NETWORK SWITCH	CISCO CATALYST 3850 IP BASED-POE+
428		✓ HP SWITCH WITH POE +
429	ANNOTATION DEVICE	SMART TECHNOLOGIES, POLYVISION, STEELCASE
430	INTERACTIVE DISPLAY	SMART TECHNOLOGIES, POLYVISION, STEELCASE, PANASONIC
431		✓ EPSON
432	CLASSROOM LIGHTING CONTROL	✓ CLIMATEC, CRESTON
433	SPEAKERS	✓ JBL, EXTRON, CRESTRON ,QSC
434	PC COMPUTERS	✓ HP ELITE SERIES
435	LECTURE CAPTURE	ENSEMBLE
436	NETWORK DATA SWITCHES	CISCO (W/POE)
437		✓ HP SWITCH WITH POE +
438	UPS	✓ APC , EATON
439	<b>DIV. 28: ELECTRONIC SAFETY &amp; SECURITY</b>	
440	<b>28 10 00 ELECTRONIC ACCESS CONTROL</b>	
441	Card Readers	✓ HID ICLASS SE contactless smart card (R40 type) - no sub. Requires ICLASS Standard Compatibility, 920NTNTEK00000 (Typical model)
442	Software	✓ Lenel OnGuard
443	Controllers	✓ Lenel OnGuard. LNL 3300
444	Data Center Air Conditioning	DATA AIRE, APC
445	Classroom AV	✓ EXTRON
446	Data Center Power Protection	LIEBERT
447	Alarm Initiating Devices	GE/SENTROL
448	Video Management Software	✓ EXACQ VISION
449	<b>28 20 00 ELECTRONIC SURVEILLANCE</b>	
450	CCTV Cameras	Review this section to District Standards
451	High Definition / MEGA Pixel	ARECONT VISION MEGAVIDEO SERIES
452	Digital VIDEO to IP ENCODER	AXIS: Q741
453	System Server	✓ Lenel Enterprise NVR
454	Recording System	NETAPP FAS2240 or newer
455	TV Panels	✓ Samsung
456	CCTV	PANASONIC- DIGITAL IP
457	Access System	✓ LENEL ENTERPRISE
458	Motion Detector	✓ OPTEX
459	SIS Head-End	ZENITEL/STENTONFON
460	<b>WIRELESS ACCESS POINTS</b>	

	LAVC STANDARD	CAMPUS ALTERNATIVES
461	Indoor Access Points	✓ HP, Aruba
462	Outdoor Access Points	✓ HP, Aruba
463	<b>NETWORK SWITCHES</b>	
464	Data Switches	Cisco Catalyst IP Based-POE+
465		✓ HP
466	<b>FIRE ALARM SYSTEM</b>	
467	GENERAL	✓ SimplexGrinnell Tyco with Mass Notification
468	FIRE ALARM PULL STATION	SimplexGrinnell Tyco 'B' KEY
469	SPEAKER/STROLL AMBER ALERT	✓ SimplexGrinnell Tyco W/ MASS NOTIFICATION
470	<b>DIV. 32: EXTERIOR IMPROVEMENTS</b>	
471	<b>IRRIGATION SYSTEMS</b>	
472	IRRIGATION CONTROLLER	✓ Toro TMC-424E Series
473	IRRIGATION - Sprinkler Heads	✓ HUNTER 540-4" POP-UP SPRINKLER HEADS, RAINBIRD 1800
474	IRRIGATION - Heads	✓ RAIN BIRD FALCON, RAINBIRD 5000
475	IRRIGATION - Control Valves	RAINBIRD ELECTRIC REMOTE CONTROL VALVES
476		✓ SUPERIOR 950
477	IRRIGATION - Pipes	✓ SCHEDULE 80 PVC PIPE OR SCHEDULE 40 PVC
478	IRRIGATION - Fittings	✓ SCHEDULE 80 SOCKED WELD FITTINGS OR SCHEDULE 40 PVC
479	IRRIGATION SYSTEMS	✓ RAINBIRD
480	ANTI GRAFFITI FILMS	3M
481	PAVEMENT MARKINGS	DUNN-EDWARDS
482	CONTROLLER REMOTE SITE MANAGEMENT	Toro TriComm Site Management
483	CONTROLLER HAND-HELD REMOTE CONTROL	Toro TMR-1
484	CONTROLLER ENCLOSURE	✓ TORO SENTINEL ENCLOSURE
485	RAIN SENSOR	✓ Toro TRS
486	CONTROL WIRE - COMMON	✓ Paige P7001D 12 AWG White
487	CONTROL WIRE - HOT	✓ Paige P7001D 14 AWG Colored
488	WATERPROOF WIRE CONNECTOR	✓ Spears DS-500 Dri-Splice
489	GROUNDING ROD	Paige 182007 with Paige 1820037P Connection
490	DIELECTRIC CONNECTION	Approved by Electrical Engineer
491	BOOSTER PUMP	Barrett Irriboost with Variable Speed Drive and SS Enclosure
492	BASKET STRAINER	Yardney SBx-T Series
493	BASKET STRAINER ENCLOSURE	V.I.T. Strong Box SBBC-xxSS with QP Option
494	PRESSURE REGULATOR	✓ Wilkins 500 Series
495	MASTER VALVE	✓ Toro 220 Brass or Toro P-220S Plastic
496	FLOW SENSOR	✓ Toro TFS Series
497		✓ RAINBIRD
498	FERTILIZER INJECTOR	✓ EZ-FLO EZ Series
499	GATE VALVE (2" and SMALLER)	✓ Nibco T-113 Series
500	GATE VALVE (2 1/2" and LARGER)	✓ Nibco F-619-SON Series
501	BALL VALVE (2" and SMALLER)	✓ Nibco T-585-70 Series
502	AIR RELEASE VALVE	Cla-Val #33-A Series
503	QUICK COUPLING VALVE	✓ Rain Bird #44-NP or TORO #44 NP Series
504	ELECTRIC CONTROL VALVE	✓ SUPERIOR 950 SERIES
505	DRIP ZONE VALVE KIT	Toro TPV Series
506	VALVE BOX	✓ NDS Pro Plus Series (green plastic with purple bolt-down cover)

LAVC STANDARD		CAMPUS ALTERNATIVES
507	MAINLINE PIPING (6" and LARGER)	✓ Pacific Plastics or equal CL200 PVC Gasketed - Purple
508	MAINLINE PIPING (2" - 4")	✓ Pacific Plastics or equal CL315 Solvent-Weld PVC - Purple
509	MAINLINE PIPING (1 1/2" and SMALLER)	✓ Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Purple or Sch 80 PVC
510	LATERL LINE PIPING	✓ Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Purple, or SCH 80 PVC
511	PIPE / WIRE SLEEVING	✓ Pacific Plastics or equal SCH 40 Solvent-Weld PVC
512	PIPE FITTINGS (MAINLINE)	✓ Spears or equal SCH 80 PVC
513	PIPE FITTINGS (LATERAL LINES)	✓ Spears or equal SCH 40 PVC
514		✓ RAINBIRD FALCON
515	MEDIUM ROTOR HEADS	Toro T5 Series
516		✓ RAINBIRD 5000 SERIES
517	SMALL ROTOR HEADS	Toro 570Z-PRX-COM-E with Tor Precision Rotating Nozzle
518		✓ RAINBIRD
519	FIXED SPRAY HEADS	Toro 570Z-PRX-COM-E with Toro Precision Spray Nozzle
520		✓ RAINBIRD
521	FLOOD BUBBLER	Toro 570Z-PRX-COM-E with Toro FB-PC Nozzle
522		✓ RAINBIRD
523	TREE ROOT WATERING SYSTEM	✓ Rain Bird RWS Series
524	DRIP LINE SYSTEMS	Toro DL2000 RGP-xxx-xx-E Series
525		✓ RAINBIRD
526	DRIP SYSTEM FITTINGS / ACCESSORIES	Toro - Miscellaneous
527		✓ RAINBIRD
528	BIRD DETERRANTS	✓ EAGLE EYE BIRD CONTROL OR EQUAL
529	GROUND PREPARATION FOR LANDSCAPING	NO CONCRETE OR ASPHALT, NO AGGREGATE OVER ¼" , NEW TOP SOIL REQUIRED TOP 6"
530	<b>LANDSCAPE DESIGN</b>	
531	LARGE TREES	✓ Cedrus deodora [Deodar cedar]
532		✓ Quercus agrifolia [Coast live oak]
533	MEDIUM TREES PRIMARILY FOR SHADE	✓ Cinnamomum camphora [Camphor tree]
534		✓ Jacaranda mimosifolia [Jacaranda]
535		✓ Liriodendron arnoldii [Tulip tree]
536		✓ Podocarpus gracilior [Fern pine]
537		✓ Quercus ilex [Holly oak]
538		✓ Ulmus parvifolia 'Drake' [Drake Chinese Elm]
539	SMALL TREES FOR FLOWERS & FRAGRANCE	✓ Agonis flexusa [Pepermint tree]
540		✓ Arbutus 'Marina' [Marina Strawberry tree]
541		✓ Bauhinia 'Blakeana' [Hong Kong orchid tree]
542		✓ Callistemon viminalis [Weeping bottle brush]
543		✓ Cassia leptophylla [Gold medallion tree]
544		✓ Eucalyptus erythricorys [Red cap gum]
545		✓ Eucalyptus torquata [Coral gum]
546		✓ Lagerstromia indica [Crape Myrtle]
547		✓ Laurus nobolis [Sweet bay]
548		✓ Lyonothamus asplenifolius [Catalina ironwood]
549		✓ Magnolia "Little gem" [Little gem magnolia]
550		✓ Pistacia chinensis [Chinese pistace]
551		✓ Tabebuia lpe [ Pink trumpet tree]

LAVC STANDARD	CAMPUS ALTERNATIVES
552 <b>PALMS</b>	✓ Brahea armata [Mexican blue palm]
553	✓ Chamaerops humilis [Mediterranean fan palm]
554	✓ Cycas revoluta [Sago palm]
555	✓ Trachycarpus fortunei [Winmill palm]
556 <b>SHRUBS INACTIVE AREAS</b>	✓ Achillea spp. [Yarrow]
557	✓ Arctostaphylos 'Sunset' [Sunset manzanita]
558	✓ Berberis 'Golden abundance' Oregon grape
559	✓ Carpenteria Calif. [Bush anemone]
560	✓ Fremontedendron 'California gold' [California fremontia]
561	✓ Garrya elliptica [Coast silk tassle]
562	✓ Heteromeles arbutifolia [Toyon]
563	✓ Heuchera sp. [Alum root]
564	✓ Penstemon 'Margarita BOP'
565	✓ Rhamnus calif. 'San Bruno's mound' [Coffeeberry]
566	✓ Rhus integrifolia, [Lemonade berry]
567	✓ Ribes sanguineum [Pink flowering currant ]
568	✓ Ribes viburnifolium, [Catalina evergreen currant]
569	✓ Romneya coulteri [Matilija poppy]
570 <b>SHRUBS IN IRRIGATED AREAS</b>	✓ Agave attenuata, [Fox tail agave]
571	✓ Anigozanthus sp., [Kangaroo paw]
572	✓ Baccharis pilularis 'Pigeon point' [Coyote bush]
573	✓ Callistemon 'Little John' Little John bottlebrush
574	✓ Cistus sp. [Rockrose]
575	✓ Coelonema pulchrum, [Pink breath of heaven]
576	✓ Cotoneaster sp. [Cotoneaster]
577	✓ Elaeagnus pungens [Silverberry]
578	✓ Hemerocallis sp. [Daylily]
579	✓ Juniperus sp. [Juniper]
580	✓ Lantana sp., [Lantana]
581	✓ Leptospermum sp. [Australian tea tree]
582	✓ Ligustrum texanum [Texas privet]
583	✓ Myrtus communis [Myrtle]
584	✓ Osmanthus fragrans [Sweet olive]
585	✓ Phormium tenax [Flax] - NO DWARF
586	✓ Pittosporum tobira sp. [Tobira]
587	✓ Raphiolepis indica sp. [Indian hawthorne]
588	✓ Rosmarinus officinalis [Rosemary]
589	✓ Viburnum tinus sp. [Laurustinus]
590	✓ Westringia fruticosa [Coast rosemary]