

PIERCE COLLEGE (PC)

CAMPUS STANDARDS- MATRIX

(Note: Campus Preferences are indicated first, followed by additional manufacturers which are being considered by LACCD.)

PLEASE READ & FOLLOW THE DIRECTIONS PROVIDED BELOW

"The Campus Standards Matrix is to be used as a guide . PC 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 PC 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,
4	CABINET DRAWER GLIDES	ACCURIDE 3832
5	CABINET HINGES	ROCKFORD PROCESS CONTROL (RPC) #851
6	CABINET LOCKS	BEST 5L SERIES DEADBOLTS AND STRIKES
7	CABINET MAGNETIC CATCHES	EPCO #591
8	CABINET PULLS	TRIMCO 562-4
9	CABINET SHELF STANDARDS	KNAPE & VOGT (KV) 255
10 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 warranty 25 yr. plus
14 FIREPROOFING		
15	GENERAL	Monokote
16 WATERPROOFING		
17	BITUMINOUS DAMPPROOFING for cold application	WR MEADOWS , CARLISLE COATINGS & WATERPROOFING
18		HENRY
19	SELF-ADHERING SHEET WATERPROOFING	WR GRACE, CARLISLE COATINGS & WATERPROOFING
20 DIV. 08: OPENINGS		
21 HARDWARE		
22	KEYING OF CYLINDER	Best SFIC Cores
23	INTER CHANGEABLE CYLINDERS	Best 1C7
24	LOCKSET	Schlage Mortise L9070 Series, ND 53 Serials Interior, ND 70 Exterior classroom and interior doors in general. Classroom mortise lock shall have L SCHL283-437 Indicator, N Escutcheon with thumb turn- locked and unlocked
25	HINGES CONTINUOUS:	HAGER AB750/850 SERIES, 5 KNUCKLE; IVES; STANLEY
26		HAGER ROTON SERIES; ZERO 914-SC OR 919STST; STANLEY 650
27	EXIT DEVICES	VON DUPRIN VON99L-2SI-06-626-36-RHR or LHR - CYLINDER DOGING INSIDE THE PANIC BAR (2SI is with security indicator)
28	KEY REMOVABLE MULLION POST for double door exit device opening	(NON FIRE) VON DUPRIN KR4954
29		(FIRE RATED) VON DUPRIN KR9954

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30	CLOSER	LCN-4041, LCN - 4040 EDA or HEDA XP SWING TO WALL
31	ADA COMPLIANT PEDESTRIAN SWING DOOR OPERATOR	Record 8100 Series Automatic Door Opener, Surface Mount Installed Application, For Doors WEIGHING Less Than 350 LBS; LCN 4640 SERIES
32	CARD READER	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
33	ELECTRIC STRIKES: RIM EXIT DEVICES	VON DUPRIN
34	ELECTRIC CYLINDRICAL LOCKS	SCHLAGE
35	ELECTRIC STRIKES : MORTISE LOCKS	SCHLAGE
36	KEY SYSTEMS	BEST KABA PEAKS 7-PIN
37	FIRE ALARM PANEL KEYING	CAT 45
38	ELECTRICAL CABINET KEYING	LL803
39	ANTI VANDAL PULL	TRIMCO 1097HA-SP, 1096-HA
40	ARMOR COLLAR/CYLINDER GUARD	KEEDEX K-24
41	ASTRAGAL	PEMKO 355S
42	AUTO DOOR OPERATOR	LCN 4640-CS
43	AUTO DOOR CLOSER	LCN BY RBA,
44	AUTO FLUSH BOLT	TRIMCO 3825L X 3815L, TRIMCO 3820 X 3810
45	BOLLARD ACTUATOR	LCN 8310-3853TWP
46	BOLLARD POST	LCN 8310-866
47	COORDINATORS	TRIMCO 3094 X 3095/3096 AS REQ'D
48	DOOR BOTTOM	PEMKO 216PK
49	DOOR HOLDER	LCN PAH-60
50	DOOR STOPS	TRIMCO
51	DOOR SWEEP	PEMKO 3452V
52	DUST PROOF STRIKE	TRIMCO 3911
53	ELECTRIC LOCKSET	BEST
54	KICK PLATE	TRIMCO KO050 - 10 X 2 LDW B4E
55	LATCHSET	BEST 45H0N X 3H
56	MOP PLATE	TRIMCO KM050 - 6 X 1 LDW B4E
57	MULLION SEAL	BEST LOCK 5110
58	OVERHEAD COILING DOOR KEY SWITCH CONTROL	VEE INDUSTRIES, INC. 1 KX SURFACE MOUNT KEY SWITCH
59	OVERHEAD STOPS	GLYNN-JOHNSON
60	POWER SUPPLY	VON DUPRIN PS914 X 900-2RS
61	POWER TRANSER	VON DUPRIN EPT-2
62	PUSH/PULLS	TRIMCO
63	REMOVABLE MULLION	VON DUPRIN KR4954 X MT54
64	SILENCERS	TRIMCO 1229A
65	SMOKE SEALS	PEMKO S44 HEAD & JAMBS
66	SURFACE CLOSER	LCN P4041-SCNS
67	THRESHOLD	PEMKO
68	WALL ACTUATOR	LCN 8310-853TWP
69	WALL BUMPER	TRIMCO 1270CVPV
70	WEATHERSTRIP	PEMKO 2891S HEAD & JAMBS

STANDARD		CAMPUS ALTERNATIVES
71	WIRELESS RECEIVER	LCN 8310-865
72	DOORS	
73	WOOD DOOR	HALEY BROTHERS, MARSHFIELD DOOR SYSTEM, EGGERS INDUSTRIES or by approval
74	SLIDING METAL FIRE DOOR	SMOKE GUARD
75	AUTOMATIC SLIDING ALUMINUM FRAMED GLASS DOORS	STANLEY
76	ACCESS DOORS	BAUCO, KARP ASSOCIATES, JL INDS.
77	EXTERIOR CEILING DOOR	COOKSON COMPANY
78	FIRE RATED AUTOMATIC ROOLING SERVICE DOORS	COOKSON COMPANY
79	INSULATED, ELECTRIC OPERATION, ROOLING SERVICE DOOR	OVERHEAD DOOR CORPORATION
80	OVERHEAD COILING GRILLES	COOKSON COMPANY, PACIFIC ROLLING DOORS
81	FOLDING DOORS	MODERNFOLD, WON-DOOR, HUF COR
82	ALUMINUM-FRAMED ENTRANCES & STORE FRONT	UNITED STATES ALUMINIUM, KAWNEER, CONTINENTAL
83	RESTROOM ENTRY DOORS	
84	HOLLOW METAL DOORS, MINIMUM REQUIREMENTS	SDI LEVEL III CURRIES - POLYSTYRENE 707 CORE
85	HOLLOW METAL FRAMES, MINIMUM REQUIREMENTS	14GAUFE COLD ROLLED STEEL
86	MARBLE THRESHOLDS AT TOILET ROOM ENTRANCES	GROUP "A" MARBLE AS CLASSIFIED BY THE MARBLE INSTITUTE OF AMERICA
87	METAL DOOR LOUVERS (AT RATED OPENINGS)	ANEMOSTAT FLDL-UL-SG2 LOUVER
88	METAL DOOR LOUVERS (AT NON-RATED OPENINGS)	ANEMOSTAT PLSL LOUVER
89	WINDOWS	
90	ALUMINUM WINDOWS	WAUSAU, MODU-LINE 2250 SIGNATURE SERIES 12E, THERMAL BREAK WINDOW, ANDERSEN, PELLA, or by approval
91	WINDOW COVERING	LEVELOR RIVERA, HUNTER DOUGLAS
92	DECORATIVE FILMS	3M
93	DIV. 09: FINISHES	
94	FLOOR/ WALL FINISHES	
95	CARPET	Tandus
96	RESILIENT FLOORING	Armstrong
97	CARPET MODULES	Tandus 36X36 mold resistant
98	RESILIENT TILES/SHEET FLOORING	Armstrong
99	WALL BASE - RUBBER	Burke, Armstrong, Roppe
100	PORCELAIN TILE	American Olean
101	PAINT	INTERIOR WALLS IN CLASSROOMS, HALLWAYS, BATHROOMS AND DOORS SHALL BE DUNN EDWARDS SUPREMA SEMIGLOSS OR SIMILAR. ULTRA LOW VOC OR ZERO VOC. OFF WHITE COLOR SHALL BE SWISS COFFEE.
102		EXTERIOR: DUNN EDWARDS EVERSHIELD OR SIMILAR. ALL TRIM (WOOD AND METAL) SHALL USE SEMI-GLOSS PAINT.
103	HIGH PERFORMANCE COATINGS	Dunn Edwards, ICI , Dulux
104	EPOXY FLOORING-(EXTERIOR)	NEOGARD

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105	FLOOR MATS/WALK-OFF MATS	TANDUS
106	GRAFFITI RESISTANT COATINGS	PERMASHIELD PREMIUM, GENESIS COATING
107	GRAFFITI RESISTANT FILM	3M
108	SEAMLESS FLOORING	ARMSTRONG
109	VCT	JOHNSONITE, ARMSTRONG, MANNINGTON
110	RESINOUS FLOORING-EPOXY	STONHARD, TNEMEC
111	FIBERGLASS REINFORCED PLASTIC PANELS	MARLITE, KEMLITE/CRANE , GLASTEEL
112	GENERAL CERAMIC TILE	DAL TILES
113	MOTAR/GROUT	MAPEI, LATICRETE
114	TERRAZZO/MARBLE TILES	FRITZTILE OR EQUAL
115	CEMENTITIOUS GROUT (FLOOR TILE)	LATICRETE® PERMACOLOR™, OR APPROVED EQUAL.
116	EPOXY GROUT (WALL TILE)	LATICRETE® SPECTRALLOCK® PRO PREMIUM GROUT
117	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)
118	WALL TILE	FIELD TILE AND BASE DALTILE SEMI-GLOSS 4" X 4" , ACCENT TILE, DALTILE SEMI-GLOSS 4"X4"
119	WATERPROOF MEMBRANE	LATICRETE® HYDRO BARRIER™, OR APPROVED EQUAL.
120	EXTERIOR PLASTER	LA HABRA, HIGHLAND
121	CEILING SYSTEMS	
122	ACOUSTICAL TILE	Armstrong 24x48 x 5/8" Second Look or 24x24 x5/8",
123		Armstrong 2'x2' "Total Acoustic" for office or workspaces
124	GRID SYSTEM	Armstrong 2x4 or 2x2 -15/16 inch grid
125	ACOUSTICAL SUSPENSION SYSTEM	ARMSTRONG
126	SOUND-ABSORBING UNITS	AcoustiColor
127	INTERIOR SUSPENDED LIGHTS	LITHONIA, PRUDENTIAL
128	WALL & CEILING ACCESS DOORS	SQUARE OR RECTANGULAR FRAMES WITH HINGED LOCKED DOOR
129	DIV. 10: SPECIALTIES	
130	RESTROOM HARDWARES	
131	BATHROOM PARTITIONS	1 INCH POWDER COATED STEEL PANELS WITH ADA CONTINUEOUS SLEF CLOSING PIANO HINGES FOR DOORS. CONTINUEOUS PANEL AND SCREEN 2 EAR BRACKETS, SURFACE MOUNTED HARDWARE ONLY.
132	DIAPER-CHANGING STATION	AMERICAN SPECIALITIES INC
133	GRAB BARS	BOBRICK 1½" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE, SATIN FINISH, B-6806 SERIES (DO NOT USE L-SHAPED TWO-WALL GRAB BARS.)
134	HAND DRYERS	BRADLEY MODEL 2897-28 RECESSED HAND DRYER, MAXIMUM 4" PROJECTION FROM WALL
135	KEYING FOR TOILET ACCESSORIES	BOBRICK KEY #2055
136	LAVATORY SINK (COUNTERTOP):	AMERICAN STANDARD MODEL 0476.028 AQUALYN™ VITREOUS CHINA
137	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

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138	MIRRORS (FRAMED)	BOBRICK B-290 SERIES, 18" X 36"
139	PAPER TOWEL DISPENSERS	CLEAN & SOFT
140	WASTE RECEPTACLES (AT STAFF/FACULTY RESTROOMS ONLY)	BOBRICK MODE B-3644 RECESSED
141	SHOWER CURTAIN HOOKS	BOBRICK MODEL 204-1 STAINLESS STEEL
142	SHOWER CURTAINS	BOBRICK MODEL 204-3 VINYL SHOWER CURTAIN,
143	UTILITY SHELF	BOBRICK MODEL B-298 STAINLESS STEEL SHELF, 24" MINIMUM LENGTH X 8" DEPTH
144	SHOWER SOAP DISH	BOBRICK MODEL B-4390 RECESSED HEAVY-DUTY SOAP DISH WITH BAR
145	FOLDING SHOWER SEATS	BOBRICK MODEL B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT
146	SHOWER CURTAIN RODS	BOBRICK MODEL B-6107 HEAVY DUTY
147	SOAP DISPENSERS	CLEA, ECOLAB
148	Toilet paper dispensers	GEORGIA PACIFIC
149	TOILET SEAT COVER DISPENSER	NEATSEAT®, STAINLESS STEEL, MODEL #FH33SS
150	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.
151	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
152	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
153	OTHER HARDWARES	
154	EMERGENCY RESPONDER LOCK BOX	KNOX BOX 3200 SERIES
155	FIRE EXTINGUISHER CABINET W/ LOCK	Larsen's, Potter Roemer, JL Industries (KEY # LL24)
156	FLEXIBLE BOLLARDS	RELIANCE FOUNDRY, BC CANADA
157	LOCKERS	PENCO
158	MARKER BOARD	ABC SCHOOL SUPPLIES
159	OPERABLE PARTITIONS	WON DOOR, HUF COR AIRWALL
160	REMOVABLE STEEL BOLLARD	CALPIPE SECURITY BOLLARDS
161	STORAGE/TRANSFER	Tyga-Box System or EQUAL
162	TACKBOARDS	ABC SCHOOL SUPPLIES
163	WALL AND CORNER GUARDS	CONSTRUCTION SPECIALTIES, INC., BALCO, PAWLING
164	DIV. 11: EQUIPMENT	
165	FOOD SERVICE EQUIPMENT	Hobart, Wolf Equipment, Dwyer
166	KITCHEN, APPLIANCES	KitchenAid, Frigidaire, Samsung, Chambers, GE, Whirlpool
167	LAB FUME HOOD	KEWAUNEE SCIENTIFIC, HANSON LAB, HAMILTON
168	LOADING DOCK LEVELERS	MECHANICAL TYPE ONLY
169	PROJECTION SCREENS	DA-LITE
170	PROJECTOR MOUNTS	CHIEF MAUNUFACTURING OR EQUAL
171	DIV. 12: FURNISHINGS	
172	WINDOW SHADES	MECHO-SHADE CORP
173	METAL LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB, HAMILTON

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174	LAMINATED CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB, HAMILTON
175	WOOD LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB, HAMILTON
176	BLEACHERS	
177	INTERIOR, GYMNASIUM	Irwin Telescopic
178	Exterior, Gym	Sturdisteel
179	Exterior, Gym	Southern Bleacher Company
180	WINDOW COVERING	
181	SOLAR SHADE	Mecho Shade
182	BLINDS - VERTICAL/ HORIZONTAL	Levelor
183	BIKE PARKING RACK	PARK A BIKE - Varsity Bike Dock
184	DIV. 13: SPECIAL CONSTRUCTION	
185	MODULAR STRUCTURES	Williams Scotsman, Aurora, ModSpace
186	DIV. 14: CONVEYING EQUIPMENT	
187	WHEELCHAIR LIFTS	Garaventa
188	EXIT STAIR EVACUATION CHAIRS	Garaventa Evacuation chairs , EVACU-TRAC CD7 or better
189	DIV. 21: FIRE SUPPRESSION	
190	HYDRANTS	Clow Valve, James Jones, Rich Valve
191	DIV. 22: PLUMBING	
192	PIPE	
193	DOMESTIC, /POTABLE	C900 Blue, Copper K, #80 PVC
194	UNDERGROUND SANITARY PIPING	Cast iron, SDR-35 ASTM A888, CISPI 301
195	BRASS PIPE	Schedule 40 lead free, Red Brass
196	COPPER TUBING	Type "K" below grade or Type "L" above grades only
197		No "M" except for condensate
198	BRASS SCHEDULE 40 SOLDER JOINT FTG's	Domestic
199	SCREWED FITTINGS	Domestic
200	GAS PIPING UNDERGROUND	Poly Pipe, Butt fusion or socket, Steel transition
201	PIPE AND FITTINGS	Standard D2751-88 Cast iron
202	PLUMBING FIXTURES	
203	TOILET FIXTURES (Low Flow, Viterous China)	American Standard, Kohler, Zurn, Sloan
204	SINKS	American Standard, Kohler, Falcon
205	Stop Fittings	Chicago Faucets model 1013-ABLP
206	KITCHEN SINKS	Elkay, Kohler, Stainless Steel
207	SERIVCE SINKS	American Standard, Zurn, Kohler, (Vitreous China Lavatories) Chicago
208	URINALS (Low Flow)	Sloan, American Standard, Kohler
209	URINALS (Waterless)	Sloan, Falcon, Kohler
210	FAUCETS	Chicago-automatic or manual, American Standard, Kohler, Sloan, Zurn
211	DOMESTIC WATER HEATER	Rheem, A.O. Smith, Bradford white, American, Lochinvar
212	CIRCULATING PUMP	Grundfos with equal times
213	PLUMBING VALVES AND ACCESSORIES	
214	EXPANSION TANKS	AMTROL, Watts, Bell and Gossett
215	BACKFLOW PREVENTERS	Wilkins FEBCO, Watts, Zurn
216	CLEAN OUTS	J.R. Smith, Zurn, NIBCO
217	FLOOR DRAINS	J.R. Smith, Zurn, MIFAB

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218	ROOF DRAINS	J.R. Smith, Zurn, Josam
219	GATE VALVES	NIBCO (Union Bonnet, Raised Stem) Acorn, Zurn
220	GLOBE VALVES	NIBCO (Brass), Zurn
221	VALVES(WATER, BELOW GROUND)	Clow, Stockham (Cast Iron Flanged AWWA with operating unit)
222	Backwater	J.R. Smith, Zurn
223	CHECK VALVES	Zurn, Combraco, Milwaukee
224	Drainage System	J.R. Smith, Zurn
225	Hose Bibb Box	Stainless steel recessed w/ loose key handle, ACORN 8141/8102
226	EMERGENCY EYEWASH & SHOWER	
227	EMERGENCY EYEWASH & SHOWERS	Haws, Bradley, Encon, Watersaver
228	WATER FOUNTAINS	
229	DRINKING	Haws, HalsyTaylor, Acorn
230	DIV. 23: HEATING, VENTILLATION & AIR CONDITIONING (HVAC)	
231	A/C UNITS, ROOF MOUNTED	(Gas or Electrics / Heat Pumps) Carrier, York, Trane
232	A/C UNITS WALL MOUNTED	Bard, Marvair - Exterior Mount (Gas/Electric/DX)
233		Samsung/LG/Toshiba - Ductless Systems Heat Pumps
234	AC UNITS - COMPUTER ROOM	Liebert, Movin Cool
235	AIR HANDLERS	Trane, Carrier, York, Daikin(Mc Quay)
236	BOILER CONTROLS-HOT WATER	Raypack condensening boiler 98% efficient
237	BOILER CONTROLS-STEAM	Parker
238	HYDRONIC PIPING	Carbon Steel for under ground Heating Lines .
239		Sch 80 for cooling towers filters.
240		Insulated Fiber Glass perma pipe - Chill Water Lines
241		ICopper - for Heating Lines that are exposed
242		Thermacor
243	HVAC HYDRONIC CONTROL VALVE	Belimo for 2 and 3 way valves with reversing switch
244	MOTOR CONTROLS	GE, Square D, Allen Bradley
245	MOTORS	US Motors, Baldor, EMERSON, GE, Dayton
246	PUMPS	PACO Chill and Heating Pumps
247		Bell & Gossett for booster pumps
248		Armstrong booster pumps
249		TACO for circ pumps on water heaters and storage tanks.
250	COOLING TOWERS	Baltimore Air Coil - Stainless Steel
251		Marley - Stainless Steel
252		Evapco (Stainless steel)
253	OTHER FILTERS	Florence Filter, American Fan, 3M
254	CHILLED WATER FAN COILS	Trane, Carrier, York, Magic Air
255	CHILLER-GENERAL	Trane, Carrier, York, Daikin(Mc Quay)
256	AIR COOLED CHILLER	York, Carrier, Trane
257	CENTRIFUGAL WATER-COOLED CHILLER	Trane, Carrier, York
258	SCREW-TYPE AIR COOLED CHILLER	Trane, York, Carrier
259	SCREW-TYPE WATER COOLED CHILLER	Trane, Carrier, York
260	SCROLL-TYPE AIR COOLED CHILLER	Trane, Carrier, York, Daikin(Mc Quay)
261	ABSORBTION CHILLER	Themax, Trane

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262	OTHER ABSORPTION CHILLER	Thermax, Broad
263	FAN COILS DX	York, Carrier
264	VENTILATORS AND EXHAUST FANS	Cook, Greenheck
265	FIRE SMOKE DAMPER	Belmo w/ end switch to communicate to EMS, Kruger, Ruskin
266	AIR CONDITIONING THERMOSTAT - All Programables for 3-heating /2 cool/heat pump/digital 2, 5 or 7 day program.	Venstar - w/ locks on the stat doors, Total Line with locking doors, White Rodgers
267	THERMOSTAT LOCK BOX	HONEYWELL - TG512A -1009 Versa Guard (Universal), Large Opaque / PINTG 512B1007
268	VARIABLE FREQUENCY DRIVES	ABB, Danfoss, Toshiba (with BACnet capatibility)
269	DIV. 25: INTEGRATED AUTOMATION	
270	ENERGY MANAGEMENT SYSTEM	ALERTON-CLIMATEC, JOHNSON CONTROLS
271	DIV. 26: ELECTRICAL	
272	ELECTRICAL FIXTURES	
273	INTERIOR LIGHT FIXTURES(LED), Fluoresces No incandesce light fixture	LITHONIA, CREE, DECO
274	CONNECT WITH EMERGENCY LIGHTS	ALERTRON TO EMERGENCY GRID
275	EXIT SIGNS	LED
276	ELECTRONIC WALL CLOCKS	PRIMEX WIRELESS
277	INTERIOR SUSPENDED LIGHTS	LITHONIA, CREE
278	LIGHTING/INDOOR-OUTDOOR	
279	VANDAL PROOF LIGHTING FIXTURES	LED Type, 10 years warranty on LED and Driver, CREE, LITHONIA
280	LANDSCAPING FIXTURES	
281	EXTERIOR LIGHTS-PARKING LOT	LED Type, 10 years warranty on LED and Driver, DECO
282	LIGHT SENSORS/CONTROL	LUTRON, INTERMATIC
283	ATHLETIC FIELD	MUSCO, LITHONIA, DECO
284	ELECTRICAL EQUIPMENT	
285	MAIN SWITCHBOARD	SQUARE D, GE, EATON CUTTER HAMMER
286	MAIN DISTRIBUTION SWITCHBOARDS	SQUARE D, GE, EATON CUTTER HAMMER
287		SELECTION TO MATCH EXISTING
288	DRY TYPE TRANSFORMERS	WESTINGHOUSE, SQUARE D, GE, EATON CUTTER HAMMER
289	MAGNETIC MOTOR STARTERS	SQUARE D, GE, EATON CUTTER HAMMER
290	SOFT START MOTOR STARTERS	SQUARE D, GE, EATON CUTTER HAMMER, SIEMENS
291	PANELBOARDS	SQUARE D, GE, EATON CUTTER HAMMER
292		20% spare capacity, bolt on breakers only.
293	MCC (MOTOR CONTROL CENTERS)	SQUARE D, GE, EATON CUTTER HAMMER
294	DRIVES	ABB
295	ELECTRICAL FINISH FACE PLATES	STAINLESS, Permanently etched circuit # and panel #
296	ELECTRIC VEHICLES/ CHARGERS	
297	ELECTRICAL VEHICLES AND CHARGERS	CUSHMAN
298	ELECTRICAL CAR CHARING STATION	GE, ABB
299	UTILITY VEHICLE POWERED BY PETROL	JOHN DEERE GATOR, KAWASAKI MULE
300	EMERGENCY POWER SYSTEM-GRID MATRIX	
301	CONNECT WITH SUMP PUMPS	ALERTRON TO EMERGENCY GRID

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302	EMERGENCY MANAGEMENT SYSTEM	
303	EMERGENCY MANAGEMENT SYSTEM	ALERTON-CLIMATEC
304	ENERGY MANAGEMENT SYSTEM	ALERTON-CLIMATEC
305	FIRE PROTECTION	
306	ELECTRONICS	SILENT KNIGHT
307	LIGHTING SUPPLIES	
308	LIGHT BULBS, FLOURESCNETS T-8's	GE, SYLVANIA, PHILLIPS
309	BALLASTS	PHILLIPS
310	ALL NEW CONSTRUCTION	LED
311	EMERGENCY POWER SYSTEMS	
312	GENERATORS	ONAN, CATERPILLAR
313	UPS	LIEBERT, APC, SCHNEIDER ELECTRIC
314	INVERTORS	MYERS POWER, LC&D
315	DIV. 27: COMMUNICATIONS	
316	Data Center Server Enclosures	APC, NTC, EATON
317	IDF Data Enclosures	APC, NTC, EATON
318	Network Cabling Systems	SIEMON 10G CAT 6A MAX. ADC TRUENET
319	27 05 00 COMMON RESULTS FOR COMM	
320	Structured Cabling System Warranty	MINIMUM 25 YEAR WARRANTY
321	27 05 26 GROUNDING & BONDING	
322	Bus Bar	LYNCOLE XIT, COOPER B-LINE , CHATSWORTH
323	27 05 28 PATHWAYS FOR COMM SYSTEMS	
324	EMT Conduits & Couplings & Connectors	APPLETON, CROUSE-HINDS
325	Conduit Supports	KINDORF, UNISTRUT
326	Hangers & Cable Ties	CHATSWORTH, COOPER B-LINE , CADDY
327	Metal Outlet Boxes - Double Gang, Extra Deep	APPLETON, RACO, STEEL CITY
328	Pull Boxes and Cabinets	HOFFMAN ENCLOSURES, WIRE GUARD, CHATSWORTH
329	Cable Tray	COOPER B-LINE , PANDUIT, CHATSWORTH
330	Air Blown Fiber System (ABF)	Sumitomo Electric FutureFLEX
331	IDF Data Enclosures	SIEMON, CHATSWORTH, APC, MIDDLE ATLANTIC
332	27 05 43 UG DUCTS & RACEWAY FOR COMM	
333	Manholes	UTILITY VAULT (OLDCASTLE), JENSEN, BROOKS
334	Pull boxes	UTILITY VAULT (OLDCASTLE), JENSEN, BROOKS
335	MH/PB Hardware	INWESCO PRODUCTS
336	Conduits (Schedule 40 or Type C)	CARLON, WIREMOLD, PANDUIT, Schedule 80 on all riser.
337	Detectable Warning Tape	CARLTON
338	Pull, Rope 1800 lb tensile strength	CARLON, Install in all spare pathway
339	Bonding ribbon (In vaults)	INWESCO CAT 12A55
340	Bonding ribbon clamps (In vaults)	INWESCO CAT 12A56
341	Fargo Clamp	INWESCO CAT 12A57
342	Ground Rod	INWESCO CAT 12A60
343	Ground Inserts (Cast Bronze)	INWESCO CAT 12H69
344	Manhole Lids	ALHAMBRA FOUNDRY, PREFERRED ROUND COVERS , OPW MANHOLE, stamped ID "COMMUNICATION"

STANDARD		CAMPUS ALTERNATIVES
345	Manhole Ladders	ALHAMBRA FOUNDRY - MODEL A-3382 W/ A3383 SUPPORT BAR
346	27 11 00 COMM EQUIP. ROOM FITTINGS	
347	Ladder Racks	CHATSWORTH PRODUCTS, COPPER B LINE, SQUARE D
348	Equipment Racks	APC NETSHELTER, SIEMON VERSAPOD V600 / V800 , ORTRONICS, PANDUIT
349	Wall-Mounted Cabinets	COOPER B-LINE DAMAC, CHATSWORTH PRODUCTS, MIDDLE ATLANTIC
350	Horizontal Managers	SIEMON WM - 145-5, CHATSWORTH PRODUCTS, ORTRONICS
351	Fiber Optic Terminals (FOT's)-Housing	SIEMON, PANDUIT, SYSTIMAX
352	Fiber Terminal Adapters and Connectors	SIEMON RIC-FLC6-01, LIGHTSTACK
353	Patch panels	SIEMON Z-MAX CAT6A/F/ UTP SHIELDED, PANDUIT
354	Plywood	4ft. by 8ft. By 3/4" thick.
355	Cable Tags & Splice Labels	3M, PANDUIT
356	Protector Panels	CIRCA
357	27 13 00 COMM BACKBONE CABLING	
358	Fiber Tube Cable (OSP and Riser)	SUMITOMO ELECTRIC FUTUREFLEX, PANDUIT
359	Fiber Cable - OSP and Riser	SUMITOMO ELECTRIC FUTUREFLEX ABF-50U OM4, PANDUIT
360	Copper OSP Cable	PANDUIT
361	Splice Cases - Outside	3M, PANDUIT
362	Splice Cases - Inside	3M, PANDUIT
363	Splice Bay & Relay Labels	3M
364	ABF Tube Clips	SUMITOMO ELECTRIC FUTUREFLEX
365	27 15 00 COMM HORIZONTAL CABLING	
366	Station Cabling	PANDUIT, SYSTIMAX
367	Jacks	PANDUIT, SYSTIMAX
368	Faceplates	PANDUIT, SYSTIMAX
369	Emergency Phone	TALK-A-PHONE
370	Elevator Phone	TALK-A-PHONE VOIP 500D OR AS CURRENT UPGRADE
371	27 40 00 AUDIO VISUAL	
372	CONTROL SYSTEM	UTELOGY
373	PROJECTOR	PANASONIC, LASER/LED, HDBASE T CONNECTIVITY 2-POWER 200M LENS W/ IMAGE SHIFT IN ALL DIRECTIONS
374	PROJECT SCREEN	DA-LITE
375	LECTERN	SPECTRUM FREEDOM XRS, FORBES-AV
376	DOCUMENT CAMERA	WOLFVISION, HOVERCAM
377	ASSISTIVE LISTENING DEVICE	LISTEN TECHNOLOGIES
378	MICROPHONE	SHURE
379	NETWORK SWITCH	HP SWITCH WITH POE+ UPGRADABLE TO LATEST TECHNICAL ADVANCES
380	ANNOTATION DEVICE	SMART TECHNOLOGIES, STEELCASE
381	INTERACTIVE DISPLAY	SMART TECHNOLOGIES, STEELCASE
382	CLASSROOM LIGHTING CONTROL	CRESTON, LUTRON
383	SPEAKERS	JBL, BOSE
384	PC COMPUTERS	HP ELITE SERIES
385	LECTURE CAPTURE	ENSEMBLE

STANDARD		CAMPUS ALTERNATIVES
386	NETWORK DATA SWITCHES	HP SWITCH WITH POE+
387	UPS	APC, EATON
388	DIV. 28: ELECTRONIC SAFETY & SECURITY	
389	28 10 00 ELECTRONIC ACCESS CONTROL	
390	Card Readers	HID ICLASS SE contactless smart card (R40 type) - no sub. Requires ICLASS Standard Compatibility, 920NTNTEK00000 (Typical model)
391	Software	Lenel OnGuard
392	Controllers	Lenel OnGuard. LNL 3300
393	Data Center Air Conditioning	DATA AIRE, APC,
394	Classroom AV	UTELOGY
395	28 20 00 ELECTRONIC SURVEILLANCE	
396	CCTV Cameras	Review this section to District Standards
397	High Definition / MEGA Pixel	ARECONT VISION MEGAVIDEO SERIES
398	Digital VIDEO to IP ENCODER	AXIS: Q741
399	System Server	Lenel Enterprise NVR
400	Recording System	NETAPP FAS2240 or newer
401	TV Panels	Samsung
402	CCTV	PANASONIC- DIGITAL IP
403	Access System	LENEL ENTERPRISE
404	Wall Mounted Field Devices	TALK A PHONE ETP-WM
405	Freestanding Field Devices	TALK A PHONE ETP-MT/R OP 4 OR 5
406	Interior Building Signs	See college signage program
407	Exterior and Architectural Signs	See college signage program
408	Pedestrian and MapSigns/Display	See college signage program
409	Roadway, Vehicular and Parking Signage	See college signage program
410	Room Signs	See college signage program
411	WIRELESS ACCESS POINTS	
412	Indoor Access Points	ARUBA
413	Outdoor Access Points	ARUBA
414	NETWORK SWITCHES	
415	Data Switches	HP
416	FIRE ALARM SYSTEM	
417	GENERAL	Silent Knight
418	FIRE ALARM PULL STATION	Silent Knight
419	SPEAKER/STROLL AMBER ALERT	Silent Knight with mass communications
420	DIV. 32: EXTERIOR IMPROVEMENTS	
421	ANTI GRAFFITI PRODUCTS	3M FILMS
422	IRRIGATION SYSTEMS	
423	IRRIGATION CONTROLLER	Toro TMC-424E Series, RAINBIRD, HUNTER
424	IRRIGATION - Sprinkler Heads	HUNTER 540-4" POP-UP SPRINKLER HEADS, RAINBIRD 1800
425	IRRIGATION - Heads	HUNTER I-40 HEADS, RAINBIRD FALCON
426	IRRIGATION - Heads	HUNTER I-20 HEADS, RAINBIRD 5000
427	IRRIGATION - Control Valves	RAINBIRD ELECTRIC REMOTE, SUPERIOR 950
428	IRRIGATION SYSTEMS	TORO, HUNTER, RAINBIRD

STANDARD		CAMPUS ALTERNATIVES
429	CONTROLLER ENCLOSURE	TORO SENTINEL ENCLOSURE, V.I.T. Strong Box SB-xxSS with QP, CSA, RGVRS Options
430	BASKET STRAINER	Purple , Yardney SBx-T Series
431	MASTER VALVE	Rainbird P22o Brass series with Pressure regulator
432		Toro 220 Brass or Toro P-220S Plastic
433	FLOW SENSOR	Toro TFS Series, RAINBIRD
434	ELECTRIC CONTROL VALVE	Toro 220 Brass , Rainbird P-220 brass series, SUPERIOR 950 SERIES, Toro P-220S Plastic
435	MEDIUM ROTOR HEADS	RAINBIRD 5000 SERIES, Toro T5 Series
436	SMALL ROTOR HEADS	RAINBIRD, Toro 570Z-PRX-COM-E with Tor Precision Rotating Nozzle
437	FIXED SPRAY HEADS	RAINBIRD, Toro 570Z-PRX-COM-E with Toro Precision Spray Nozzle
438	FLOOD BUBBLER	RAINBIRD, Toro 570Z-PRX-COM-E with Toro FB-PC Nozzle
439	DRIP SYSTEM FITTINGS / ACCESSORIES	Toro - Miscellaneous, RAINBIRD, NETAFIM
440	GROUND PREPARATION FOR LANDSCAPING	NO CONCRETE OR ASPHALT AND NO AGGREGATE OVER ¼" , NEW TOP SOIL REQUIRED TOP 6"
441	LANDSCAPE DESIGN	
442	LARGE TREES	California Sycamore, Canary Island Pine, Eucalyptus, Italian Stone, Italian Cypress Jerusalem Thorn, Mexican Palo Verde, Washingtonian, Phoenix Dactyliferous and Brazillian Pepper.
443	MEDIUM TREES PRIMARILY FOR SHADE	Crepmytle, Olive tree and Persimmon
444	SMALL TREES FOR FLOWERS & FRAGRANCE	Pink trumpet, Desert willow, Golden Trumpet, Roses, Bird Paradise and Lily of the Nile
445	PALMS	Windmill palm, ca fan palm and canary island palm
446	SHRUBS INACTIVE AREAS	Bougainvillea, Rosemary, Winter Jasmine.
447	FURNISHING	NO WOOD BENCH