

**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
<b>1 DIV. 06: WOOD, PLASTICS AND COMPOSITES</b>		
<b>2 ARCHITECTURAL CABINETS</b>		
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
<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 warranty 25 yr. plus
<b>14 FIREPROOFING</b>		
15	GENERAL	Monokote
<b>16 WATERPROOFING</b>		
17	BITUMINOUS DAMPPROOFING for cold application	WR MEADOWS , CARLISLE COATINGS & WATERPROOFING
18		HENRY
19	SELF-ADHERING SHEET WATERPROOFING	WR GRACE, CARLISLE COATINGS & WATERPROOFING
<b>20 DIV. 08: OPENINGS</b>		
<b>21 HARDWARE</b>		
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	(NON FIRE) VON DUPRIN KR4954

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29	exit device opening	(FIRE RATED) VON DUPRIN KR9954
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	KEEDEEX 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

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70	WEATHERSTRIP	PEMKO 2891S HEAD & JAMBS
71	WIRELESS RECEIVER	LCN 8310-865
72	<b>DOORS</b>	
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	<b>RESTROOM ENTRY DOORS</b>	
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	<b>WINDOWS</b>	
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	<b>DIV. 09: FINISHES</b>	
94	<b>FLOOR/ WALL FINISHES</b>	
95	CARPET	Tandus
96	RESILIENT FLOORING	Armstrong
97	CARPET MODULES	Tandus 36X36 mold resistant
98	RESILIENT TILES/SHEET FLOORING	Armstrong
99	WALL BASE - RUBBER- 4" Base	Burke, Armstrong, Roppe
100	PORCELAIN TILE	American Olean, Dal Tile
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 EVERSIELD OR SIMILAR. ALL TRIM (WOOD AND METAL) SHALL USE SEMI-GLOSS PAINT.
103	HIGH PERFORMANCE COATINGS	Dunn Edwards, ICI , Dulux

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104	EPOXY FLOORING-(EXTERIOR)	NEOGARD
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. <b>“SANIGLAZE PROCESS” SYSTEM (WWW.SANIGLAZE.COM)</b>
118	WALL TILE	FIELD TILE AND BASE DAL TILE SEMI-GLOSS 4" X 4" , ACCENT TILE, DAL TILE SEMI-GLOSS 4"X4"
119	WATERPROOF MEMBRANE	LATICRETE® HYDRO BARRIER™, OR APPROVED EQUAL.
120	EXTERIOR PLASTER	LA HABRA, HIGHLAND
121	<b>CEILING SYSTEMS</b>	
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	<b>DIV. 10: SPECIALTIES</b>	
130	<b>RESTROOM HARDWARES</b>	
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

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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
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	<b>OTHER HARDWARES</b>	
154	EMERGENCY RESPONDER LOCK BOX	KNOX BOX 3200 SERIES
155	FIRE EXTINGUISHER CABINET W/ LOCK	Potter Roemer Fire Pro-recessed in wall model#7022-DV-VR (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	<b>DIV. 11: EQUIPMENT</b>	
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 MAUNFACTURING OR EQUAL

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171	<b>DIV. 12: FURNISHINGS</b>	
172	WINDOW SHADES	MECHO-SHADE CORP
173	METAL LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB, HAMILTON
174	LAMINATED CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB, HAMILTON
175	WOOD LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON LAB, HAMILTON
176	<b>BLEACHERS</b>	
177	INTERIOR, GYMNASIUM	Irwin Telescopic
178	Exterior, Gym	Sturdisteel
179	Exterior, Gym	Southern Bleacher Company
180	<b>WINDOW COVERING</b>	
181	SOLAR SHADE	Mecho Shade
182	BIKE PARKING RACK	PARK A BIKE - Varsity Bike Dock
183	<b>DIV. 13: SPECIAL CONSTRUCTION</b>	
184	MODULAR STRUCTURES	Williams Scotsman, Aurora, ModSpace
185	<b>DIV. 14: CONVEYING EQUIPMENT</b>	
186	WHEELCHAIR LIFTS	Garaventa
187	EXIT STAIR EVACUATION CHAIRS	Garaventa Evacuation chairs , EVACU-TRAC CD7 or better
188	<b>DIV. 21: FIRE SUPPRESSION</b>	
189	HYDRANTS	Clow Valve, James Jones, Rich Valve
190	<b>DIV. 22: PLUMBING</b>	
191	<b>PIPE</b>	
192	DOMESTIC, /POTABLE	C900 Blue, Copper K, #80 PVC
193	UNDERGROUND SANITARY PIPING	Cast iron, SDR-35 ASTM A888, CISPI 301
194	BRASS PIPE	Schedule 40 lead free, Red Brass
195	COPPER TUBING	Type "K" below grade or Type "L" above grades only
196		No "M" except for condensate
197	BRASS SCHEDULE 40 SOLDER JOINT FTG's	Domestic
198	SCREWED FITTINGS	Domestic
199	GAS PIPING UNDERGROUND	Poly Pipe, Butt fusion or socket, Steel transition
200	PIPE AND FITTINGS	Standard D2751-88 Cast iron
201	<b>PLUMBING FIXTURES</b>	
202	TOILET FIXTURES (Low Flow, Viterous China)	American Standard, Kohler, Zurn, Sloan
203	SINKS	American Standard, Kohler, Falcon
204	Stop Fittings	Chicago Faucets model 1013-ABLP
205	KITCHEN SINKS	Elkay, Kohler, Stainless Steel
206	SERIVCE SINKS	American Standard, Zurn, Kohler, (Vitreous China Lavatories) Chicago
207	URINALS (Low Flow)	Sloan, American Standard, Kohler
208	URINALS (Waterless)	Sloan, Falcon, Kohler
209	FAUCETS	Chicago-automatic or manual, American Standard, Kohler, Sloan, Zurn
210	DOMESTIC WATER HEATER	Rheem, A.O. Smith, Bradford white, American, Lochinvar
211	CIRCULATING PUMP	Grundfos with equal times
212	<b>PLUMBING VALVES AND ACCESSORIES</b>	
213	EXPANSION TANKS	AMTROL, Watts, Bell and Gossett
214	BACKFLOW PREVENTERS	Wilkins FEBCO, Watts, Zurn

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

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259	SCROLL-TYPE AIR COOLED CHILLER	Trane, Carrier, York, Daikin(Mc Quay)
260	ABSORBTION CHILLER	Themax, Trane
261	OTHER ABSORBTION CHILLER	Themax, Broad
262	FAN COILS DX	York, Carrier
263	VENTILATORS AND EXHAUST FANS	Cook, Greenheck
264	FIRE SMOKE DAMPER	Belmo w/ end switch to communicate to EMS, Kruger, Ruskin
265	AIR CONIDITIONING 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
266	THERMOSTAT LOCK BOX	HONEYWELL - TG512A -1009 Versa Guard (Universal), Large Opaque / PINTG 512B1007
267	VARIABLE FREQUENCY DRIVES	ABB
268	<b>DIV. 25: INTEGRATED AUTOMATION</b>	
269	ENERGY MANAGEMENT SYSTEM	ALERTON-CLIMATEC, JOHNSON CONTROLS
270	<b>DIV. 26: ELECTRICAL</b>	
271	<b>ELECTRICAL FIXTURES</b>	
272	INTERIOR LIGHT FIXTURES(LED), Fluoresces No incandescence light fixture	LITHONIA, CREE, DECO
273	CONNECT WITH EMERGENCY LIGHTS	ALERTRON TO EMERGENCY GRID
274	EXIT SIGNS	LED
275	ELECTRONIC WALL CLOCKS	PRIMEX WIRELESS
276	INTERIOR SUSPENDED LIGHTS	LITHONIA, CREE
277	<b>LIGHTING/INDOOR-OUTDOOR</b>	
278	VANDAL PROOF LIGHTING FIXTURES	LED Type, 10 years warranty on LED and Driver, CREE, LITHONIA
279	<b>LANDSCAPING FIXTURES</b>	
280	EXTERIOR LIGHTS-PARKING LOT	LED Type, 10 years warranty on LED and Driver, DECO
281	LIGHT SENSORS/CONTROL	LUTRON, INTERMATIC
282	ATHLETIC FIELD	MUSCO, LITHONIA, DECO
283	<b>ELECTRICAL EQUIPMENT</b>	
284	MAIN SWITCHBOARD	SQUARE D, GE, EATON CUTTER HAMMER
285	MAIN DISTRIBUTION SWITCHBOARDS	SQUARE D, GE, EATON CUTTER HAMMER
286		SELECTION TO MATCH EXISTING
287		* Save 25% Space and Capacity for Future.
288	DRY TYPE TRANSFORMERS	WESTINGHOUSE, SQUARE D, GE, EATON CUTTER HAMMER
289		* Install Primary and/or Secondary Service Disconnect Switch
290	MAGNETIC MOTOR STARTERS	SQUARE D, GE, EATON CUTTER HAMMER
291	SOFT START MOTOR STARTERS	SQUARE D, GE, EATON CUTTER HAMMER, SIEMENS
292	PANELBOARDS	SQUARE D
293		20% spare space and capacity
294		All Panel Board and Load Center Shall Be Full Size Panel 42/42 Bolt-On type Breaker, with Main Breaker and Ground bar. All space fill with 1-Pole 20A Breaker and come with Lock Kit.
295	MCC (MOTOR CONTROL CENTERS)	SQUARE D, GE, EATON CUTTER HAMMER
296	DRIVES	ABB



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297	ELECTRICAL FINISH FACE PLATES	STAINLESS, Permanently etched circuit # and panel #
298	<b>ELECTRIC VEHICLES/ CHARGERS</b>	
299	ELECTRICAL VEHICLES AND CHARGERS	CUSHMAN
300	ELECTRICAL CAR CHARGING STATION	GE, ABB
301	UTILITY VEHICLE POWERED BY PETROL	JOHN DEERE GATOR, KAWASAKI MULE
302	<b>EMERGENCY POWER SYSTEM-GRID MATRIX</b>	
303	CONNECT WITH SUMP PUMPS	ALERTRON TO EMERGENCY GRID
304	<b>EMERGENCY MANAGEMENT SYSTEM</b>	
305	EMERGENCY MANAGEMENT SYSTEM	ALERTON-CLIMATEC
306	ENERGY MANAGEMENT SYSTEM	ALERTON-CLIMATEC
307	<b>FIRE PROTECTION</b>	
308	ELECTRONICS	SILENT KNIGHT
309	<b>LIGHTING SUPPLIES</b>	
310	LIGHT BULBS, FLOURESCNETS T-8's	GE, SYLVANIA, PHILLIPS * LED Fixtures with 10 Year Warranty on the LED&Driver.
311	BALLASTS	PHILLIPS
312	ALL NEW CONSTRUCTION	LED
313	<b>EMERGENCY POWER SYSTEMS</b>	
314	GENERATORS	ONAN, CATERPILLAR
315	UPS	LIEBERT, APC, SCHNEIDER ELECTRIC
316	INVERTORS	MYERS POWER, LC&D
317	<b>DIV. 27: COMMUNICATIONS</b>	
318	Data Center Server Enclosures	APC, EATON
319	IDF Data Enclosures	APC, EATON
320	Network Cabling Systems	PANGEN
321	<b>27 05 00 COMMON RESULTS FOR COMM</b>	
322	Structured Cabling System Warranty	MINIMUM 25 YEAR WARRANTY
323	<b>27 05 26 GROUNDING &amp; BONDING</b>	
324	Bus Bar	CHATSWORTH
325	<b>27 05 28 PATHWAYS FOR COMM SYSTEMS</b>	
326	EMT Conduits & Couplings & Connectors	APPLETON, CROUSE-HINDS
327	Conduit Supports	KINDORF, UNISTRUT
328	Hangers & Cable Ties	CHATSWORTH, COOPER B-LINE , CADDY
329	Metal Outlet Boxes - Double Gang, Extra Deep	APPLETON, RACO, STEEL CITY
330	Pull Boxes and Cabinets	HOFFMAN ENCLOSURES, WIRE GUARD, CHATSWORTH
331	Cable Tray	COOPER B-LINE , PANDUIT, CHATSWORTH
332	Air Blown Fiber System (ABF)	Sumitomo Electric FutureFLEX
333	IDF Data Enclosures	CHATSWORTH, APC
334	<b>27 05 43 UG DUCTS &amp; RACEWAY FOR COMM</b>	
335	Manholes	UTILITY VAULT (OLDCASTLE), JENSEN, BROOKS
336	Pull boxes	UTILITY VAULT (OLDCASTLE), JENSEN, BROOKS
337	MH/PB Hardware	INWESCO PRODUCTS
338	Conduits (Schedule 40 or Type C)	CARLON, WIREMOLD, PANDUIT, Schedule 80 on all riser.
339	Detectable Warning Tape	CARLTON

	STANDARD	CAMPUS ALTERNATIVES
340	Pull, Rope 1800 lb tensile strength	CARLON, Install in all spare pathway
341	Bonding ribbon (In vaults)	INWESCO CAT 12A55
342	Bonding ribbon clamps (In vaults)	INWESCO CAT 12A56
343	Fargo Clamp	INWESCO CAT 12A57
344	Ground Rod	INWESCO CAT 12A60
345	Ground Inserts (Cast Bronze)	INWESCO CAT 12H69
346	Manhole Lids	ALHAMBRA FOUNDRY, PREFERRED ROUND COVERS , OPW MANHOLE, stamped ID "COMMUNICATION"
347	Manhole Ladders	ALHAMBRA FOUNDRY - MODEL A-3382 W/ A3383 SUPPORT BAR
348	<b>27 11 00 COMM EQUIP. ROOM FITTINGS</b>	
349	Ladder Racks	CHATSWORTH PRODUCTS
350	Equipment Racks	CHATSWORTH PRODUCTS
351	Wall-Mounted Cabinets	CHATSWORTH PRODUCTS
352	Horizontal Managers	CHATSWORTH PRODUCTS
353	Fiber Optic Terminals (FOT's)-Housing	SUMITOMO
354	Fiber Terminal Adapters and Connectors	SUMITOMO
355	Patch panels	PANDUIT
356	Plywood	4ft. by 8ft. By 3/4" thick.
357	Cable Tags & Splice Labels	3M, PANDUIT
358	Protector Panels	CIRCA
359	<b>27 13 00 COMM BACKBONE CABLING</b>	
360	Fiber Tube Cable (OSP and Riser)	SUMITOMO ELECTRIC FUTUREFLEX, PANDUIT
361	Fiber Cable - OSP and Riser	SUMITOMO ELECTRIC FUTUREFLEX ABF-50U OM4, PANDUIT
362	Copper OSP Cable	GENERAL CABLE
363	Splice Cases - Outside	3M, PANDUIT
364	Splice Cases - Inside	3M, PANDUIT
365	Splice Bay & Relay Labels	3M
366	ABF Tube Clips	SUMITOMO ELECTRIC FUTUREFLEX
367	<b>27 15 00 COMM HORIZONTAL CABLING</b>	
368	Station Cabling	PANDUIT
369	Jacks	PANDUIT
370	Faceplates	PANDUIT
371	Emergency Phone	TALK-A-PHONE
372	Elevator Phone	TALK-A-PHONE VOIP 500D OR AS CURRENT UPGRADE
373	<b>27 40 00 AUDIO VISUAL</b>	
374	CONTROL SYSTEM	UTELOGY, EXTRON
375	PROJECTOR	EPSON + L615U BRIGHTLINK PRO 1470UI
376	PROJECT SCREEN	DA-LITE
377	LECTERN	SPECTRUM, FORBES-AV
378	DOCUMENT CAMERA	WOLFVISION, HOVERCAM, EPSON, ELMO
379	ASSISTIVE LISTENING DEVICE	LISTEN TECHNOLOGIES
380	MICROPHONE	SHURE
381	NETWORK SWITCH	HP SWITCH WITH POE+ UPGRADABLE TO LATEST TECHNICAL ADVANCES
382	ANNOTATION DEVICE	OPEN

	STANDARD	CAMPUS ALTERNATIVES
383	INTERACTIVE DISPLAY	OPEN
384	CLASSROOM LIGHTING CONTROL	LUTRON, EXTRON
385	SPEAKERS	JBL, BOSE, EXTRON
386	PC COMPUTERS	HP ELITE SERIES , SMALL FORM FACTOR
387	LECTURE CAPTURE	ENSEMBLE
388	NETWORK DATA SWITCHES	HP SWITCH WITH POE+, ARUBA
389	UPS	APC, EATON
390	<b>DIV. 28: ELECTRONIC SAFETY &amp; SECURITY</b>	
391	<b>28 10 00 ELECTRONIC ACCESS CONTROL</b>	
392	Card Readers	HID ICLASS SE contactless smart card (R40 type) - no sub. Requires ICLASS Standard Compatibility, 920NTNTEK00000 (Typical model)
393	Software	Lenel ENTERPRISE
394	Controllers	LNL-X4420
395	Data Center Air Conditioning	DATA AIRE, APC,
396	Classroom AV	UTELOGY, EXTRON
397	<b>28 20 00 ELECTRONIC SURVEILLANCE</b>	
398	CCTV Cameras	AXIS
399	High Definition / MEGA Pixel	ARECONT VISION MEGAVIDEO SERIES , AXIS
400	Digital VIDEO to IP ENCODER	AXIS: Q741
401	System Server	QOGNIFY, BCD
402	Recording System	BCD
403	TV Panels	Samsung, SONY
404	CCTV	PANASONIC- DIGITAL IP, QOGNIFY, BCD
405	Access System	LENEL ENTERPRISE
406	Wall Mounted Field Devices	TALK A PHONE ETP-WM
407	Freestanding Field Devices	TALK A PHONE ETP-MT/R OP 4 OR 5
408	Interior Building Signs	See college signage program
409	Exterior and Architectural Signs	See college signage program
410	Pedestrian and MapSigns/Display	See college signage program
411	Roadway, Vehicular and Parking Signage	See college signage program
412	Room Signs	See college signage program
413	<b>WIRELESS ACCESS POINTS</b>	
414	Indoor Access Points	ARUBA
415	Outdoor Access Points	ARUBA
416	<b>NETWORK SWITCHES</b>	
417	Data Switches	ARUBA
418	<b>FIRE ALARM SYSTEM</b>	
419	GENERAL	Silent Knight
420	FIRE ALARM PULL STATION	Silent Knight
421	SPEAKER/STROLL AMBER ALERT	Silent Knight with mass communications
422	<b>DIV. 32: EXTERIOR IMPROVEMENTS</b>	
423	ANTI GRAFFITI PRODUCTS	3M FILMS
424	<b>IRRIGATION SYSTEMS</b>	
425	IRRIGATION CONTROLLER	Toro TMC-424E Series, RAINBIRD, HUNTER, CHAMPION

STANDARD		CAMPUS ALTERNATIVES
426	IRRIGATION - Sprinkler Heads	HUNTER 540-4" POP-UP SPRINKLER HEADS, RAINBIRD 1800
427	IRRIGATION - Heads	HUNTER I-40 HEADS, RAINBIRD FALCON
428	IRRIGATION - Heads	HUNTER I-20 HEADS, RAINBIRD 5000
429	IRRIGATION - Control Valves	RAINBIRD ELECTRIC REMOTE, SUPERIOR 950
430	IRRIGATION SYSTEMS	TORO, HUNTER, RAINBIRD
431	CONTROLLER ENCLOSURE	TORO SENTINEL ENCLOSURE, V.I.T. Strong Box SB-xxSS with QP, CSA, RGVRS Options
432	BASKET STRAINER	Purple , Yardney SBx-T Series
433	MASTER VALVE	Rainbird P22o Brass series with Pressure regulator
434		Toro 220 Brass or Toro P-220S Plastic
435	FLOW SENSOR	Toro TFS Series, RAINBIRD
436	ELECTRIC CONTROL VALVE	Toro 220 Brass , Rainbird P-220 brass series, SUPERIOR 950 SERIES, Toro P-220S PlasticM
437	MEDIUM ROTOR HEADS	RAINBIRD 5000 SERIES, Toro T5 Series
438	SMALL ROTOR HEADS	RAINBIRD, Toro 570Z-PRX-COM-E with Tor Precision Rotating Nozzle
439	FIXED SPRAY HEADS	RAINBIRD, Toro 570Z-PRX-COM-E with Toro Precision Spray Nozzle
440	FLOOD BUBBLER	RAINBIRD, Toro 570Z-PRX-COM-E with Toro FB-PC Nozzle
441	DRIP SYSTEM FITTINGS / ACCESSORIES	Toro - Miscellaneous, RAINBIRD, NETAFIM
442	GROUND PREPARATION FOR LANDSCAPING	NO CONCRETE OR ASPHALT AND NO AGGREGATE OVER ¼" , NEW TOP SOIL REQUIRED TOP 6"
443	<b>LANDSCAPE DESIGN</b>	
444	LARGE TREES	California Sycamore, Canary Island Pine, Eucalyptus, Italian Stone, Italian Cypress Jerusalem Thorn, Mexican Palo Verde, Washingtonian, Phoenix Dactyliferous and Brazillian Pepper.
445	MEDIUM TREES PRIMARILY FOR SHADE	Crepmytle, Olive tree and Persimmon
446	SMALL TREES FOR FLOWERS & FRAGRANCE	Pink trumpet, Desert willow, Golden Trumpet, Roses, Bird Paradise and Lily of the Nile
447	PALMS	Windmill palm, ca fan palm and canary island palm
448	SHRUBS INACTIVE AREAS	Bongainvillea, Rosemary, Winter Jasmine.
449	FURNISHING	NO WOOD BENCH