

LA TRADE TECHNOLOGY COLLEGE CAMPUS STANDARDS- MATRIX

(Note: Campus Preferences are indicated 1st, followed by additional manufactresers in italics which are being considered by LACCD)

PLEASE READ AND FOLLOW THE DIRECTIONS PROVIDED BELOW

The Campus Standards Matrix is to be used as a guide . LATTC 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 Campus Maintenance & Operations (M&O) or IT Dept. This is a living document updates regularly, one should check with M&O Dept. 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	EXISTING CONDITION	
2	TELEPHONE SYSTEM	CISCO VoIP
3	DIV. 05: METALS	
4	LADDER	ALACO, O'KEEFFE'S, ACL, PRECISION
5	DIV. 06: WOOD, PLASTICS AND COMPOSITES	
6	WALL SHEATHING	G-P GYPSUM OR EQUAL
7	PLASTIC LAMINATE	NEVAMAR, FORMICA, WILSONART, OR EQUAL
8	CABINET DRAWER GLIDES	ACCURIDE 3832
9	CABINET HINGES	ROCKFORD PROCESS CONTROL (RPC) #851
10	CABINET LOCKS	BEST 5L SERIES DEADBOLTS AND STRIKES
11	CABINET MAGNETIC CATCHES	EPCO #591
12	CABINET PULLS	TRIMCO 562-4
13	CABINET SHELF STANDARDS	KNAPE & VOGT (KV) 255
14	DIV. 07: THERMAL & MOISTURE PROTECTION	
15	ROOFING - GENERAL	
16	GENERAL	GAF, JOHNS MANVILLE
17	FIREPROOFING	
18	GENERAL	MONOKOTE, CAFCO,
19	BITUMINOUS DAMPPROOFING	WR MEADOWS, HENRY, CARLISLE COATINGS
20	SELF-ADHERING SHEET WATERPROOFING	WR GRACE, WR MEADOWS, CARLISLE COATINGS
21	DIV. 08: OPENINGS	
22	SLIDING METAL FIRE DOOR	SMOKE GUARD OR EQUAL
23	WOOD DOORS - GENERAL	HALEY BROTHERS, INC, MARSHFIELD DOOR SYS, EGGERS INDUSTRIES,
24	ACCESS DOORS	MILCOR, BILCO, KARP
25	WINDOWS	ANDERSEN, PELLA , MARVIN.
26	SLIDING ALUMINUM FRAMED GLASS DOORS	STANLEY
27	OVERHEAD COILING DOORS	COOKSON, OVERHEAD DOOR CO,
28	OVERHEAD COILING GRILLS	OVERHEAD DOORS, COOKSON OR EQUAL
29	ACCORDION FOLDING DOORS	WON-DOOR, HUF COR, WOODFOLD
30	ROOF HATCH	BILCO, MILCOR, KARP
31	STOREFRONTS	ARCADIA OR EQUAL
32	CURTAIN WALL	ARCADIA OR EQUAL
33	HARDWARE	
34	ANTI VANDAL PULL	TRIMCO 1097HA-SP

STANDARD		CAMPUS ALTERNATIVES
35	ANTI VANDAL PULL	TRIMCO 1097HA-SP-NC
36	ANTI VANDAL PULL	TRIMCO 1096HA
37	ARMOR COLLAR	KEEDEX K-24
38	ASTRAGAL	BY DOOR MANUFACTURER / PEMKO 355S
39	AUTO DOOR OPERATOR	LCN 4640-CS
40	AUTO DOOR CLOSER	LCN BY RBA,
41	AUTO FLUSH BOLT	TRIMCO 3825L X 3815L
42	AUTO FLUSH BOLTS	TRIMCO 3820 X 3810
43	BOLLARD ACTUATOR	LCN 8310-3853TWB
44	BOLLARD POST	LCN 8310-866
45	BUTT HINGES	STANLEY
46	CONTINUOUS HINGE	STANLEY 651 X SHIM X EPT PREP
47	CONTINUOUS HINGE	STANLEY 651 X SHIM
48	CONTINUOUS HINGES	STANLEY
49	COORDINATORS	TRIMCO 3094 X 3095/3096 AS REQ'D
50	CYLINDERS	BEST
51	DOOR BOTTOM	PEMKO 216PK
52	DOOR BOTTOM	PEMKO 217PK
53	DOOR HOLDER	LCN PAH-60
54	DOOR STOPS	TRIMCO
55	DOOR SWEEP	PEMKO 3452V
56	DUST PROOF STRIKE	TRIMCO 3911
57	DUST PROOF STRIKE	TRIMCO 3910
58	ELECTRIC LOCKSET	BEST 45HW7DEU X 3H X L/OST
59	ELECTRICAL CABINET KEYING	LL803
60	EXIT DEVICE	VON DUPRIN SD-EL98NL-OP X 110NL AX
61	EXIT DEVICE	VON DUPRIN SD98EO AX
62	EXIT DEVICE	VON DUPRIN CD98NL-OP X 110NL AX
63	EXIT DEVICE	VON DUPRIN CD98EO AX
64	EXIT DEVICES	VON DUPRIN CD99 SERIES 996L-03 LEVER AX
65	FIRE ALARM PANEL KEYING	CAT 45
66	HINGE	STANLEY FBB179 - 4-1/2 X 4-1/2
67	I/C CORE CYLINDER	BEST 1C-7
68	I/C MORTISE CYLINDER	BEST 1E74
69	I/C MORTISE CYLINDER	BEST 1E7G4
70	I/C RIM CYLINDER	BEST 1E72
71	KEYING OF CYLINDER	BEST I/C CORE CYLINDER, 7-PIN.
72	KICK PLATE	TRIMCO KO050 - 10 X 2 LDW B4E
73	LATCHSET	BEST 45H0N X 3H
74	LOCKSETS	BEST 45H SERIES 3H
75	MOP PLATE	TRIMCO KM050 - 6 X 1 LDW B4E
76	MULLION SEAL	BEST LOCK 5110
77	OVERHEAD COILING DOOR KEY SWITCH CONTROL	VEE INDUSTRIES, INC. 1 KX SURFACE MOUNT KEY SWITCH
78	OVERHEAD STOPS	GLYNN-JOHNSON
79	POWER SUPPLY	VON DUPRIN PS914 X 900-2RS

STANDARD		CAMPUS ALTERNATIVES
80	POWER TRANSER	VON DUPRIN EPT-2
81	PRIVACY	BEST 45H0LT X 3H
82	PUSH/PULLS	TRIMCO
83	REMOVABLE MULLION	VON DUPRIN KR4954 X MT54
84	SILENCERS	TRIMCO 1229A
85	SMOKE SEALS	PEMKO S44 HEAD & JAMBS
86	SURFACE CLOSER	LCN P4041-SCNS
87	SURFACE CLOSER	LCN P4041-EDA
88	SURFACE CLOSER	LCN P4041-H-EDA
89	SURFACE CLOSERS	LCN 4041 SERIES WITH "EDA" ARMS.
90	THRESHOLD	PEMKO
91	WALL ACTUATOR	LCN 8310-853TWP
92	WALL BUMPER	TRIMCO 1270CVPV
93	WEATHERSTRIP	PEMKO 2891S HEAD & JAMBS
94	WIRELESS RECEIVER	LCN 8310-865
95	RESTROOM ENTRY DOORS	
96	HOLLOW METAL DOORS, MINIMUM REQUIREMENTS	SDI-100 GRADE II MODEL 3, 1 3/4 INCHES THICK.
97	HOLLOW METAL FRAMES, MINIMUM REQUIREMENTS	16 GAUGE THICK MATERIAL, TO SUIT DOOR.
98	MARBLE THRESHOLDS AT TOILET ROOM ENTRANCES	GROUP "A" MARBLE AS CLASSIFIED BY THE MARBLE INSTITUTE OF AMERICA
99	METAL DOOR LOUVERS (AT RATED OPENINGS)	ANEMOSTAT FLDL-UL-SG2 LOUVER
100	METAL DOOR LOUVERS (AT NON-RATED OPENINGS)	ANEMOSTAT PLSL LOUVER
101	WINDOW TREATMENTS	
102	WINDOW COVERING	LEVELOR RIVERA, HUNTER DOUGLAS
103	DECORATIVE FILMS	3M, LLUMAR/VISTA, METROPOLITAN WEST
104	DIV. 09: FINISHES	
105	CARPET	TANDUS
106	CARPET MODULES	TANDUS
107	EPOXY FLOORING-(EXTERIOR)	NEOGARD
108	HIGH PERFORMANCE COATINGS	DUNN EDWARDS, SHERWIN WILLIAMS
109	FLOOR MATS/WALK-OFF MATS	TANDUS
110	HARD SURFACE (GYMNASIUM)	MONDO, AACER, NOBLE HOUSE, TERAFLEX
111	PAINT	DUNN EDWARDS, OR EQUAL
112	GRAFFITI RESISTANT COATINGS	PERMASHIELD PREMIUM, GENESIS COATING
113	GRAFFITI RESISTANT FILM	3M, JOHNSON WINDOW FILMS
114	RAISED FLOORING SYSTEMS	TATE, ACCESS FLOOR CO,
115	RESILIENT TILES/SHEET FLOORING	JOHNSONITE, ARMSTRONG, MANNINGTON OR EQUAL
116	SEAMLESS FLOORING	JOHNSONITE, ARMSTRONG, MANNINGTON OR EQUAL
117	VCT	JOHNSONITE, ARMSTRONG, MANNINGTON OR EQUAL
118	RESINOUS FLOORING-EPOXY	STONHARD, CROSSFIELD PRODUCTS, TNEMEC
119	FIBERGLASS REINFORCED PLASTIC PANELS	MARLITE, KEMLITE/CRANE, GLASTEEL
120	WALL BASE	JOHNSONITE, ARMSTRONG, MANNINGTON OR EQUAL

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121	WALL COVERINGS	DESIGNER WALLCOVERINGS/SAND, LLC
122	PORCELAIN TILE-CERAMIC	
123	GENERAL	DALE TILES
124	MOTAR/GROUT	LATICRETE
125	TERRAZZO/MARBLE TILES	FRITZTILE OR EQUAL
126	RESTROOM FINISHES	
127	CEMENTITIOUS GROUT (FLOOR TILE)	LATICRETE® PERMACOLOR™, OR APPROVED EQUAL.
128	EPOXY GROUT (WALL TILE)	LATICRETE® SPECTRALLOCK® PRO PREMIUM GROUT, OR APPROVED EQUAL.
129	FLOOR TILE	DALTILE, OR APPROVED EQUAL.
130	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)
131	WALL TILE	DALTILE, OR APPROVED EQUAL.
132	WATERPROOF MEMBRANE	LATICRETE® HYDRO BARRIER™, OR APPROVED EQUAL.
133	CEILING SYSTEMS	
134	ACUSTICAL TILE	ARMSTRONG, USG
135	ACOUSTICAL SUSPENSION SYSTEM	ARMSTRONG, USG OR CHICARGO METALLIC CO,
136	INTERIOR SUSPENDED LIGHTS	PRUDENTIAL, LITHONIA
137	DIV. 10: SPECIALTIES	
138	LOCKERS - GENERAL	LYON METAL PRODUCTS, REPUBLIC, PENCO
139	MARKER BOARD	ABC SCHOOL SUPPLIES, EGAN VISUAL, ADP LEMCO
140	TACKBOARDS	ABC SCHOOL SUPPLIES, ADP LEMCO
141	OPERABLE PARTITIONS	WON DOOR, HUF COR AIRWALL,
142	WALL AND CORNER GUARDS	CONSTRUCTION SPECIALTIES, INC., BALCO, PAWLING,
143	RESTROOM SPECIALTIES	
144	BATHROOM PARTITIONS	BOBRICK SIERRASERIES® WATER-AND FIRE-RESISTANT SOLID COLOR REINFORCED COMPOSITE TOILET PARTITIONS AND URINAL SCREENS, OR CAMPUS APPROVED EQUAL.
145	DIAPER-CHANGING STATION:	KOALA KARE PRODUCTS MODEL KB-110-SSWM HORIZONTAL WALL MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION, OR APPROVED EQUAL.
146	FOLDING SHOWER SEATS	BOBRICK MODEL B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT, OR APPROVED EQUAL.
147	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.)
148	HAND DRYERS	BRADLEY MODEL 2897-28 RECESSED HAND DRYER, MAXIMUM 4" PROJECTION FROM WALL, OR APPROVED EQUAL.
149	KEYING FOR TOILET ACCESSORIES	BOBRICK KEY #2055
150	LAVATORY SINK (COUNTERTOP):	AMERICAN STANDARD MODEL 0476.028 AQUALYN™ VITREOUS CHINA COUNTERTOP SINK, OR APPROVED EQUAL.

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151	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.
152	MIRRORS (FRAMED)	BOBRICK B-290 SERIES, 18" X 36", OR APPROVED EQUAL.
153	PAPER TOWEL DISPENSERS (AT STAFF/FACULTY RESTROOMS ONLY)	BOBRICK MODEL B-2860 SURFACE MOUNTED TOLL TOWEL DISPENSER, OR APPROVED EQUAL.
154	SANITARY NAPKIN	BOBRICK MODEL B-3706C STAINLESS STEEL SEMI-RECESSED NAPKIN/TAMPON DISPENSER, OR APPROVED EQUAL.
155	SANITARY NAPKIN DISPOSALS	RECESSED SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B-353, OR APPROVED EQUAL / PARTITION-MOUNTED SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B-354, OR APPROVED EQUAL.
156	SHOWER CURTAIN HOOKS	BOBRICK MODEL 204-1 STAINLESS STEEL SHOWER CURTAIN HOOK, OR APPROVED EQUAL.
157	SHOWER CURTAIN RODS	BOBRICK MODEL B-6107 HEAVY-DUTY SHOWER CURTAIN ROD, OR APPROVED EQUAL.
158	SHOWER CURTAINS	BOBRICK MODEL 204-3 VINYL SHOWER CURTAIN, OR APPROVED EQUAL.
159	SHOWER SOAP DISH	BOBRICK MODEL B-4390 RECESSED HEAVY-DUTY SOAP DISH WITH BAR, OR APPROVED EQUAL.
160	SOAP DISPENSERS	TECHNICAL CONCEPTS LLC "TC ENRICHED FOAM SOAP SYSTEM" 800ML FOAM SOAP DISPENSER STAINLESS STEEL WITH KEYPED LOCK, MODEL TC750382, OR APPROVED EQUAL.
161	TOILET SEAT COVER DISPENSERS	NEATSEAT® TOILET SEAT COVER DISPENSER, STAINLESS STEEL, MODEL #FH33SS NEATSEAT; OR APPROVED EQUAL.
162	TOILET SEATS	BEMIS MODEL 1955CT, OR APPROVED EQUAL. SEATS SHALL BE HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC. SEATS SHALL BE OPEN FRONT LESS COVER FOR ELONGATED BOWL AND FEATURE LARGE MOLDED-IN BUMPERS.
163	TOILET TISSUE DISPENSERS	BOBRICK MODEL B-2892 SURFACE-MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER, FOR NONE ADA
164	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.
165	UTILITY SHELF	BOBRICK MODEL B-298 STAINLESS STEEL SHELF, 24" MINIMUM LENGTH X 8" DEPTH, OR APPROVED EQUAL.
166	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.
167	WASTE RECEPTACLES (AT STAFF/FACULTY RESTROOMS ONLY)	BOBRICK MODE B-3644 RECESSED WASTE RECEPTACLE, OR APPROVED EQUAL.
168	MISC. SPECIALTIES	

STANDARD		CAMPUS ALTERNATIVES
169	EMERGENCY RESPONDER LOCK BOX	KNOX BOX 3200 SERIES
170	EVACUATION CHAIR	GARAVENTA LIFT, STRYKER EMS OR EQUAL
171	REMOVABLE STEEL BOLLARD	CALPIPE SECURITY BOLLARDS
172	FLEXIBLE BOLLARDS	RELIANCE FOUNDRY, BC CANADA
173	FIRE PROTECTION	
174	FIRE ALARM SYSTEM	EST3 BY GE
175	EXTINGUISHERS/CABINETS	POTTER-ROEMER, J.L. INDUSTRIES,
176	FIREPROOFING	MONOKOTE, CAFCO,
177	DIV. 11: EQUIPMENTS	
178	PARKING CONTROL	
179	LOADING DOCK LEVELERS	MECHANICAL TYPE ONLY
180	CULINARY SPECIALTIES	
181	FOOD SERVICE EQUIPMENT	HOBART
182	KITCHEN APPLIANCES	GE, WHIRLPOOL,
183	PROJECTION SCREENS	DALITE
184	PROJECTOR MOUNTS	CHIEF MAUNFACTURING OR EQUAL
185	LAB FUME HOOD	KEWAUNEE SCIENTIFIC
186	DIV. 12: FURNISHINGS	
187	WINDOW SHADES	MECHO-SHADE CORP OR EQUAL
188	METAL LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
189	LAMINATED CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
190	WOOD LAB CASEWORK	KEWAUNEE SCIENTIFIC, HANSON, HAMILTON
191	DIV. 13: SPECIAL CONSTRUCTION	
192	MODULAR STRUCTURES	SUBMIT FOR CFD APPROVAL
193	DIV. 14: CONVEYING EQUIPMENT	
194	HYDRAULIC ELEVATORS-PASSENGER	OTIS, MITSUBISHI
195	HYDRAULIC ELEVATORS-FREIGHT	OTIS, MITSUBISHI
196	WHEEL CHAIR LIFT	GARVENTA LIFT,
197	DIV. 21: FIRE SUPPRESSION	
198	VALVES	RELIABLE, TYCO, NIBCO
199	FIRE PROTECTION EQUIPMENTS	RELIABLE, TYCO, VIKING
200	FIRE DEPARTMENT CONNECTIONS	POTTER-ROEMER, CROKER, ELKHART
201	POST INDICATOR VALVES	CLOW, MUELLER
202	FLOW AND TEMPER SWITCHES	NOTIFIER, POTTER ELECTRIC
203	FIRE HYDRANTS	CLOW VALVE, RICH VALVE,
204	DIV 22: PLUMBING	
205	BACKFLOW PREVENTER VALVES	WILKIN, FEBCO
206	BACKWATER VALVES	ZURN, JR. SMITH
207	CHECK VALVES	MILWAUKEE, ZURN, COMBRACO OR EQUAL
208	CLEAN OUTS	NIBCO, ZURN
209	DRAIN PUMPS	SWABY, WILPUMPM PACO, PEERLESS
210	DRAINAGE SYSTEMS	ZURN, J. R. SMITH MFR CO
211	DRINKING FOUNTAINS	HAWS,
212	ELECTRIC SELF-REGULATING T&M CABLE	RAYCHEM CORP. THERMON COMMERCIAL PROD. DIVISION
213	GROOVED MI FITTINGS & COUPLINGS	VICTAULIC CO, GRUVLOK CO.

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214	NO HUP COUPLINGS	ANANCO, TYLER, M.G. COUPLING
215	NOISELESS CHECK VALVES	WILLIAMS GAUGE CO., MILWAUKEE VALVE
216	SHUT-OFF VALVES	ACCORN OR EQUAL
217	TRENCH -FUNNEL DRAINS	STOCKHAM VALVES & FITTINGS CO., NIBCO
218	VALVES AND ACCESSORIES	NIBCO, ZURN
219	RESTROOM PLUMBING/FIXTURES	
220	ANGLE STOP FITTING WITH LOOSE KEY	CHICAGO FAUCETS MODEL 1013-ABCP, OR EQUAL.
221	AUTOMATIC FLUSH VALVES, HARD-WIRED	SLOAN #111-1.28-ES-S-YO ROYAL OPTIMA ELECTRONIC "NO TOUCH" FLUSH VALVE UNIT, SLOAN #EL-154 TRANSFORMER, OR APPROVED EQUAL.
222	COPPER WATER TUBING	A. WATER, BELOW GRADE: TYPE K (HEAVY WALL).
223		B. WATER, ABOVE GRADE: TYPE L (MEDIUM WALL).
224		C. CONDENSATE: TYPE M (LIGHT WALL).
225	SERVICE SINK FAUCETS	CHICAGO WALL MOUNT
226	FAUCETS	CHICAGO, AMERICAN STANDARD, KOHLER
227	FLOOR DRAINS WITH ADJUSTABLE STRAINER HEADS	JR. SMITH MFG. CO. MODEL 2005Y (ROUND TOP), OR APPROVED EQUAL.
228	HOSE BIBB BOXES	STAINLESS STEEL RECESSED HOSE BOX. HOSE BIBB SHALL BE OPERABLE WITH LOOSE KEY HANDLE.
229	LAVATORY FAUCET AND DRAIN (RESTROOM LAVATORIES SHALL BE SUPPLIED WITH HOT AND COLD WATER)	A. HOT AND COLD WATER SINK FAUCET: CHICAGO FAUCETS MODEL 802-VABCP, OR APPROVED EQUAL.
230		B. SINGLE SUPPLY METERING SINK FAUCET: CHICAGO FAUCETS MODEL 3400-ABCP, OR APPROVED EQUAL.
231		C. HOT AND COLD WATER MIXING METERING SINK FAUCET: CHICAGO FAUCETS MODEL 857- 665PSHABCP, OR APPROVED EQUAL.
232		1. CONCEALED MECHANICAL MIXING VALVE: CHICAGO FAUCETS MODEL 242.165.AB.1, OR APPROVED EQUAL.
233		D. DRAIN GRID STRAINER WASTE: CHICAGO FAUCETS MODEL 327-XCP, OR APPROVED EQUAL.
234	PISTON OPERATED WATER HAMMER ARRESTOR	MIFAB® MWH SERIES, OR APPROVED EQUAL.
235	RESTROOM ACCESSORIES	BOBRICK, BRADLEY
236	SHOWER FAUCETS AND HEADS	A. ACCESSIBLE SHOWERS: SYMMONS TEMPTROL II™ (2000 SERIES) SHOWER SYSTEM WITH HAND SPRAY, MODEL 25-500-B30-V, OR APPROVED EQUAL.
237		B. NON-ACCESSIBLE SHOWERS: SYMMONS 2000™ SERIES SHOWER SYSTEM (INCLUDES CLEAR- FLO SHOWER HEAD WITH ARM AND FLANGE), MODEL 25-1, OR APPROVED EQUAL.
238		C. PROVIDE A SHUT-OFF VALVE IN A STAINLESS STEEL RECESSED WALL VALVE BOX WITH 1/8" ALLEN HEAD CAM LATCH, FOR EACH MANIFOLD SUPPLYING SHOWERS. MILCOR VERSATILE VALVE BOX IN SIZE AS DETERMINED BY ARCHITECT, OR APPROVED EQUAL.
239	SINKS	VITREOUS CHINA LAVATORIES, KOHLER, AMERICAN STANDARD, FALCON
240	TOILET FIXTURES	AMERICAN STANDARD, KOHLER, SOLAN
241	TRAP PRIMER	SOLAN ROYAL FLUSHOMETER, REGAL

STANDARD		CAMPUS ALTERNATIVES
242	VALVES - TOILETS, URINALS	SLOAN
243	WASTE AND VENT PIPE AND FITTINGS	A. CERTIFIED TO CONFORM TO ASTM A888.
244		B. CERTIFIED TO CONFORM TO CISPI 301.
245	WASTE AND VENT ABOVE GRADE COUPLINGS	CONFORM TO ASTM C564
246	WATER CLOSET: FLOOR-MOUNTED (ACCESSIBLE)	USE ONLY WHERE THE INSTALLATION OF A WALL-HUNG WATER CLOSET IS IMPOSSIBLE. AMERICAN STANDARD MADERA MODEL 3043.001, OR KOHLER HIGHLINE MODEL K-4405, OR APPROVED EQUAL
247	WATER CLOSET: FLOOR-MOUNTED (NON-ACCESSIBLE)	USE ONLY WHERE THE INSTALLATION OF A WALL-HUNG WATER CLOSET IS IMPOSSIBLE. AMERICAN STANDARD MADERA MODEL 3451.001, OR KOHLER WELLWORTH MODEL K-4406, OR APPROVED EQUAL.
248	WATER CLOSET: WALL HUNG (PREFERRED)	AMERICAN STANDARD AFWALL ELONGATED BOWL MODEL 3351.001, OR KOHLER KINGSTON MODEL K-4325, OR APPROVED EQUAL.
249	WATERLESS URINALS	DO NOT USE
250	WATER HEATERS/BOILERS	
251	ELECTRIC WATER HEATER	A.O. SMITH MODEL DEL-50, OR APPROVED EQUAL.
252	GAS WATER HEATER	A.O.SMITH, RHEEM, AMERICAN, STATE, LOCHINVAR
253	BOILER	LOCKINVAR, RAYPACK
254	PIPE	
255	DOMESTIC, IRRIGATION, FIRE	CPVC CHLORINATED POLY VINYL CHLORIDE PIPE, COPPER
256	UNDERGROUND WATER PIPING	SCHEDULE 40 AND SCHEDULE 80
257	PIPE TUBING AND FITTINGS	
258	BRASS PIPE	RED BRASS, SCHEDULE 40, LEAD FREE
259	BRASS SCHEDULE 40 SOLDER JOINT FTG'S	DOMESTIC
260	BUILDING DRAIN, WASTE & VENT	PVC MATERIAL, STANDARD ASTM,D2661-87 FOR 3 STORIES OR LESS, CAST IRON
261	COPPER TUBING	TYPE "K"
262	GAS PIPING	PE- NATURAL GAS YARD PIPING, LEED FREE, WRAPPED GREEN PIPE
263	PIPE AND FITTINGS	STANDARD D2751-88 CAST IRON, NO-HUB PIPE AND FITTINGS (WASTE)
264	STEEL PIPE	GALVANIZED OR BLACK SCHEDULE 40 DOMESTIC
265	EMERGENCY EYEWASH & SHOWER	HAWS, BRADLEY
266	DIV. 23: HEATING, VENTILLATION & AIR CONDITIONING (HVAC)	
267	A/C UNITS WALL MOUNTED	BARD, CARRIER,
268	A/C UNITS, ROOF MOUNTED	TRANE, CARRIER, YORK
269	AIR HANDLERS	YORK, TRANE,
270	COOLING TOWERS	BALTIMORE AIR COOL (STAINLESS STEEL)
271	MOTOR CONTROLS	ALLEN-BRADLEY, SQUARE D, GENERAL ELECTRIC
272	MOTORS	BALDOR VARIABLE SPEED, BALTIMORE, BAC, S.S GE
273	OTHER FILTERS	AMERICAN, FLORENCE, FAN & TRIDERN
274	PUMPS	TACO, BELL & GOSSETT, ARMSTRONG,
275	ENERGY MANAGEMENT SYS	SIEMENS BUILDING TECH SYS 900 APOGEE
276	HVAC GRAVITY ROOF VENT	COOK, GREENHECK

STANDARD		CAMPUS ALTERNATIVES
277	GAS FIRED PACKAGE CONDENSING BOILERS	RAYPACK, LOCKINVAR
278	INFRARED GAS RADIANT HEATERS	SUNPAK, SUPERIOR RADIANT PRODUCTS
279	ROOF EXHAUST FAN	COOK, GREENHECK
280	MECHANICAL SYSTEMS	
281	AIR COOLED CHILLER	CARRIER, YORK, TRANE, MCQUAY
282	AIR HANDLER UNITS	ENERGY LAB INC.
283	WATER TREATMEN	CLEARWATER SYS CO
284	BOILER-HOT WATER	LOCKINVAR, RAYPACK, PARKER
285	BOILER CONTROLS-STEAM	PARKER
286	CENTRIFUGAL AIR COOLED CHILLER	CARRIER, YORK, TRANE, MCQUAY
287	CHILLER ABSORBTION CHILLER	CARRIER, YORK, TRANE, MCQUAY
288	CHILLER-GENERAL	CARRIER, YORK, TRANE, MCQUAY
289	OTHER ABSORBTION CHILLER	CARRIER, YORK, TRANE, MCQUAY
290	SCREW-TYPE AIR COOLED CHILLER	CARRIER, YORK, TRANE, MCQUAY
291	SCREW-TYPE WATER COOLED CHILLER	CARRIER, YORK, TRANE, MCQUAY
292	WATER-COOLED	CARRIER, YORK, TRANE, MCQUAY
293	WATER-COOLED CHILLER	CARRIER, YORK, TRANE, MCQUAY
294	WATER SOURCE HEAT PUMP UNITS	MCGUAY
295	FANS-ROOF, WALL & CEILING MOUNTED	
296	GENERAL	DAYTON, COOK OR APPROVED EQUAL
297	DIV. 26: ELECTRICAL	
298	RESTROOM ELECTRICAL	
299	KEYED LIGHT SWITCHES	HUBBELL HBL EXTRA HEAVY DUTY INDUSTRIAL LOCKING SERIES, BACK AND SIDE WIRED 15A, 120-277V AC; OR LEVITON EXTRA HEAVY DUTY SPECIFICATION GRADE KEY LOCKING SWITCHES.
300	LIGHT FIXTURES	A. VANDAL-RESISTANT CONSTRUCTION PREFERRED.
301		B. LISTED FOR DAMP OR WET LOCATIONS.
302		C. LED
303	LIGHTING/INDOOR-OUTDOOR	
304	ATHLETIC FIELD	MUSCO
305	PARKING LOT	LED BY GE, LITHONA, ASL
306	VANDAL PROOF LIGHTING FIXTURES	LED BY EATON, LAMAR,LUMINAIRE
307	LIGHTING SUPPLIES	
308	BALLASTS	GE, SYLVANIA, PHILLIPS
309	LIGHT BULBS, FLOURESCNETS T-8'S	GE, SYLVANIA, PHILLIPS
310	NEW CONSTRUCTION	LED BY GE, LITHONIA, ASL
311	ELECTRICAL EQUIPMENT	
312	VARIABLE FREQUENCY DRIVES	ABB, DANFOSS
313	DRY TYPE TRANSFORMERS	WESTINGHOUSE, SQUARE D
314	GENERAL LIGHT SWITCHES	LEVITON, HUBBELL
315	GENERAL RECEPTACLES	LEVITON, HUBBELL
316	GENERAL SAFETY SWITCHES	GE, SQUARE D
317	HIGH & MEDIUM VOLTAGE TRANSFORMERS	STANDARD GENERAL DRY-TYPE-SQUARE D
318	LIGHTING CONTROL PANELS	LCD, GR 1400 SERIES, BLUETRON

STANDARD		CAMPUS ALTERNATIVES
319	LOW VOLTAGE & TELECOM CONDUCTORS	APPROVED NEC COPPER CONDUCTORS ONLY- THHN/THWN
320	LOW VOLTAGE TRANSFORMERS	SQUARE D
321	MAGNETIC MOTOR STARTERS	SQUARE D
322	MAIN DISTRIBUTION CONDUCTORS	XLP OR EPR (COOPER CONDUCTORS ONLY)
323	MAIN DISTRIBUTION SWITCHBOARDS	SQUARE D
324	MAIN SWITCHBOARD	G.E. SQUARE D, SELECTION TO MATCH EXISTING
325	MCC (MOTOR CONTROL CENTERS)	SQUARE D
326	PANELBOARDS	SQUARE D, GE, CUTLER-HAMMER, SIEMENS
327	SECONDARY DISTRIBUTION CONDUCTOR	APPROVED NEC COPPER CONDUCTORS ONLY- THHN/THWN
328	SOFT START MOTOR STARTERS	GE, SQUARE D, SIEMENS.
329	SUBSTATIONS	STANDARD GENERAL DRY-TYPE-SQUARE D
330	TERMINAL AIR UNITS VAV'S	TITUS, KRUEGER OR CAMPUS APPROVED EQUIVALENT
331	ELECTRICAL FIXTURES	
332	INTERIOR ELECTRICAL LIGHT FIXTURES	LED BY GE, LITHONIA, HUBBELL
333	LIGHT SWITCHES & SENSORS	"WATT STOPPER", LEVITON
334	EXIT SIGNS	LED, ACTIVE SAFETY™, SPECTRON, OR EQUAL
335	EXTERIOR LIGHTS	BEGA LIGHTING
336	TIME CLOCKS - TIME SWITCHES	LC&D, BLUETRON
337	STORAGE/TRANSFER	HP, DELL, SIEMEN'S, CISCO...SEE I.T. STANDARDS
338	TELEPHONE SYSTEM	CISCO VOIP SYSTEMS, SEE I.T. STANDARDS
339	ELECTRICAL VEHICLES AND CHARGERS	
340	CHARGER MFR	GE, ABB, BOSCH
341	VEHICLE MFR	TAYLOR DUNN, HONDA
342	EMERGENCY POWER SYSTEMS	
343	ENERGY MANAGEMENT	SEIMENS
344	GENERATORS	CATERPILLAR
345	UPS	LIEBERT, APC
346	CLOCK SYSTEMS	AMERICAN TIME (EXISTING)
347	DIV. 27: COMMUNICATIONS	
348	CLASSROOM TECHNOLOGIES	
349	IP PAGING	SINGLEWIRE INFORMACAST
350	NETWORK COMMUNICATION SYSTEMS	
351	AIR BLOWN FIBER SYSTEM (ABF)	SUMITOMO FUTUREFLEX
352	IDF DATA ENCLOSURES	SIEMON VersaPod, SIEMON V-800, SIEMON V-600, APC
353	NETWORK CABLING SYSTEMS	SIEMON 10G SHIELDED CAT 6A Z-MAX
354	NETWORK DATA SWITCHES	CISCO (W/POE)
355	UPS	APC, EATON, MGE
356	DIV. 28: ELECTRONIC SAFETY & SECURITY	
357	SYSTEM CCTV/ STANDARD	
358	AIR BLOWN FIBER SYSTEM (ABF)	SUMITOMO FUTUREFLEX
359	System Server	GENETEC
360	TV Panels	Samsung
361	CCTV	PANASONIC- DIGITAL IP; Axis Communication 8+ Megapixel
362	CLASSROOM AV	EXTRON, UTELOGY

STANDARD		CAMPUS ALTERNATIVES
363	DATA CENTER AIR CONDITIONING	DATA AIRE, APC
364	DATA CENTER POWER PROTECTION	LIEBERT, EATON, APC
365	DATA CENTER SERVER ENCLOSURES	APC
366	IDF DATA ENCLOSURES	APC
367	NETWORK CABLING SYSTEMS	SIEMON 10G CAT 6A MAX. ADC TRUENET, COPPER TEN CAT6A
368	NETWORK DATA SWITCHES	CISCO (W/POE)
369	ACCESS CONTROL	
370	CARD READER	HID Global 920PMPTEKEA007, 921PMPTEKEA008, 910PMPTEKEA007 (use OSDP communication only)
371	CREDENTIALS	HID Global 5006PGGAN with LACCD Corporate 1000 Format: H800003
372	ACCESS CONTROL CABLE	Belden 658GMS
373	ACCESS CONTROL PANEL	Lenel LNL-X4420
374	POWER SUPPLY	LifeSafety Power FPO150/250-3D8P2M8NL4E8M2/P16 with BDM
375	DOOR POSITION SENSOR	Schlage 7764
376	LOCKDOWN BUTTON	STI SS2026LD-EN with 6/18 cable to Access Control Panel
377	ACCESS CONTROL SYSTEM	Lenel OnGuard Enterprise
378	SECURITY INTERCOMMUNICATION SYSTEM	
379	SIS HEAD-END	ZENITEL/STENTONFON
380	WALL MOUNTED FIELD DEVICES	TALK A PHONE ETP-WM
381	FREESTANDING FIELD DEVICES	TALK A PHONE ETP-MT/R OP 4 OR 5
382	SIGNAGE/IDENTIFICATION DEVICES	
383	Interior Building Signs	See the latest wayfinding and signage standards
384	Exterior and Architectural Signs	See the latest wayfinding and signage standards
385	Pedestrian and Map Signs/Display	See the latest wayfinding and signage standards
386	Roadway, Vehicular and Parking Signage	See the latest wayfinding and signage standards
387	Room Signs	See the latest wayfinding and signage standards
388	DIV. 32: EXTERIOR IMPROVEMENTS	
389	IRRIGATION SYSTEMS	
390	IRRIGATION CONTROL SYS	RAINBIRD
391	IRRIGATION	HUNTER 540-4" POP-UP SPRINKLER HEADS
392	IRRIGATION	HUNTER I-40 HEADS
393	IRRIGATION	HUNTER I-20 HEADS
394	IRRIGATION	RAINBIRD ELECTRIC REMOTE CONTROL VALVES
395	IRRIGATION	SCHEDULE 80 PVC PIPE
396	IRRIGATION	SCHEDULE 80 SOCKED WELD FITTINGS
397	IRRIGATION SYSTEMS	RAINBIRD
398	ANTI GRAFFITI FILMS	3M
399	PAVEMENT MARKINGS	DUNN-EDWARDS
400	DIV. 33 UTILITIES	
401	STORM DRAIN UTILITY SYS	
402	CATCH BASINS	CHRISTY CONCETE PRODUCTS
403	TRENCH DRAINS	NDS