ELAC/SGEC Campus Standards Matrix

ELAC & South Gate Educational Center- Campus Standards Matrix

Note: Campus preferences are indicated first followed by additional manufacturers which are being considered by

NOI		ollowed by additional manufacturers which are being considered by
	STANDARD	CAMPUS ALTERNATIVES
1	DIV. 07: THERMAL & MOISTURE PROTECTION	
2	ROOFING	
3	GENERAL	Modified Bitumen 30-yr Warranty, 4- ply. Build-up roof multi-ply SARNAFIL , Tremco or Johns Manville Corporation,
4	FIREPROOFING	
5	GENERAL	Monokote, KAFCO, PDI
6	DIV. 08: OPENINGS	
7	DOORS & FRAMES	Metal doors and frames required
8	HARDWARE	
9	KEYS - *Coordinate/verify with locksmith*	Schlage SFIC, 7 Pin, Everest 29 R
10	CYLINDERS	ELAC uses Schlage housings prepped for Small Format Interchangeable Core (SFIC). Use Schlage brand only, do not substitute.
11	LEVER LOCKSETS	Avoid Cylindrical. Where possible, use Schlage mortise locksets with satinstainless anti-microbial finish. Example: L9000-06N-630AM (L=mortise lockset, N=escutcheon, 630= satin stainless, AM= anti-microbial).
12	CABINET LOCKSETS	OLYMPUS NOTE: Required at all cabinet door & drawers
13	HINGES	HAGER, IVES, MARKAR 300 SERIES, CONTINUOUS SS
14	EXIT DEVICES	VON DUPRIN-98 SERIES, CD, XP @ EXTERIOR AX (ADA Panic Device series) Avoid using Vertical Rods. Use Rim Exits from 98 series Von Duprin. All exit devices shall have: AX - ADA Compliant PA - Pushpad Armor 630AM finish For non-electrified locksets, have CD - cylinderical dogging
15	KEY REMOVABLE MULLION POST for double door exit device opening	(NON FIRE) VON DUPRIN KR4954, (FIRE RATED) VON DUPRIN KR9954
16	CLOSER	LCN-4040 EDA or HEDA, XP, Swing to Wall
17	ADA COMPLIANT PEDESTRIAN SWING DOOR OPERATOR**MUST BE INTEGRATED WITH LENEL	Record 8100 series automatic door opener, surface mount installed application, for doors weighing less than 350 LBS.**Must be integrated with Lenel access control system.
18	CARD READER	Card reader models shall be: 920PBPTEK20000 (standard) and 921PBPTEK20000 (keypad) HID-ICLASS SE 13.56 MGHZ, R40 Typ. Requires ICLASS Standard Capability, NOTE: Required at all building entries, classroom doors (if more than one door, then at least one required), all building utility rooms (electrical, mechanical, BDF/IDF, Janitorial closets), staff restrooms, staff/faculty offices. Refer to latest
19	ELECTRIC STRIKES: RIM EXIT DEVICES	HES-9500 FRAME MOUNTED, HES-9600 MULLION MOUNTED
20	ELECTRIC CYLINDRICAL LOCKS	Avoid using Electrified Cylindrical and Electrified Strikes style locksets. Use Electrified mortise locksets and Quiet Electric Latching Rim Exit devices instead. All electronic access control equipment (except card reader) shall be connected with molex style connectors. Electrified locksets shall also have RX switch built in. NOTE: NO cutting Fire Door frame shall be PERMITTED

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	STANDARD	CAMPUS ALTERNATIVES
21	ELECTRIC STRIKES: MORTISE LOCKS	Avoid using Electrified Cylindrical and Electrified Strikes style locksets. Use
		Electrified mortise locksets and Quiet Electric Latching Rim Exit devices instead.
		All electronic access control equipment (except card reader) shall be connected
		with molex style connectors. Electrified locksets shall also have RX switch built
		in.
		NOTE: NO cutting Fire Door frame shall be PERMITTED
		•
22	KEY SYSTEMS	See comments above. ELAC has standardized on Schlage key system.
	DIV. 09: FINISHES	
	FLOOR/ WALL FINISHES	Touches 20V20 (District contract in effect)
25	CARPET	Tandus 36X36 (District contract in effect)
	RESILIENT FLOORING	FORBO, Estri, Armstrong, Mannington, Parterre, International
	CARPET MODULES	Tandus 36X36 (District contract in effect)
	RESILIENT TILES/SHEET FLOORING	FORBO, Estri, Armstrong, Mannington, Parterre, International
	HARD SURFACE (GYMNASIUM)	MONDO, Aacer, Noble House, Teraflex,
	WALL BASE	Roppe, Burke
	RAISED FLOORING SYSTEMS	Tate, Interface AR, Maxcess, Smith
32	PORCELAIN TILE-CERAMIC	Specific to design standard
33	WALL COVERINGS	Ultra Hide, Vista Paint, Benjamin Moore
34	PAINT	Vista, Dulux, ICI, <i>Dunn Edwards, Frazee, Sherwin Williams</i>
35	COATINGS	Dulux, ICI, Master Coating, Technologies, Scuffmaster
36	CEILING SYSTEMS	•
37	ACOUSTICAL TILE	Armstrong, USG, Statfor, Acousticolor 2X4 preferred
		NOTE: Required 2x4 tiles
38	GRID SYSTEM	Armstrong, USG, Stratford, AcoustiColor 2X4 preferred
39	DIV. 10: SPECIALTIES	
40	SOAP & PAPER TOWEL DISPENSERS	CLEA, BRADLEY, BOBRICK
41	HAND DRYER	BOBRICK, Trim Line-Surface-Mounted ADA dryer B-7120 (22-ga mild steel zinc
		plated w/ high-gloss white exposy paint finish), Xlerator (ADA compliant),
		Saniflow (ADA compliant)
42	BATHROOM PARTITIONS	BOBRICK, Bradley, Trespa, Santana, Flush metal, Accurate NOTE: Required
		Water & Fire Resistant, Solid Color Reinforced Composite.
40	DESTROOM ACCESSORIES	DODDICK Dradley Viewster American
43	RESTROOM ACCESSORIES	BOBRICK, Bradley, Xlerator, American
44	LOCKERS	Debourgh, Lyon, Penco, Republic
45	STORAGE/TRANSFER	Tyga-Box System or EQUAL
46	FIRE EXTINGUISHERS/ CABINET W/LOCKS	Harrier Datter Danier III In L. C. (VEV. II L. C.)
47	GENERAL	Larsens, Potter Roeme, JL Industries (KEY # LL24
40	DIV 44. FOLUDMENT	NOTE: Required Semi or fully recessed cabinets
	DIV. 11: EQUIPMENT	Haland Walfa Donner MITH CERVICE MARRANETY (TVDC
49	FOOD SERVICE EQUIPMENT	Hobart, Wolfe, Dwyer WITH SERVICE WARRANTY 1-5 YRS
50	KITCHEN, APPLIANCES	KitchenAid, Frigidaire, Samsung, Chambers,
	DIV. 12: FURNISHINGS	
	BLEACHERS	Imaiin Talaaaania Chudishaal Cauthann Dhaashan Canna
53	INTERIOR, GYMNASIUM, TELESCOPIC, STND.	Irwin Telescopic, Studisteel, Southern Bleacher Company
ΕΛ	WINDOW COVERING	
	WINDOW COVERING	Macha Chada Layalar Cuntos
55	SOLAR SHADE	Mecho Shade, Levolor, Suntec
	BLINDS - VERTICAL/ HORIZONTAL	Levelor, Rivera, Hunter-Douglas
	BIKE RACK	Describe Occidence (frances to be for both to be a both t
58	GENERAL	Brandir, Cycloops (frames to be of a lockable design)
59	DIV. 13: SPECIAL CONSTRUCTION	

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	STANDARD	CAMPUS ALTERNATIVES
60	MODULAR STRUCTURES	GE, Capital, Williams Scotsman, Aurora
61	DIV. 14: CONVEYING EQUIPMENT	
62	STANDARD ELEVATORS	Mitsubishi, Kone, Schindler
63	ELEVATOR CAMERA	If elevator manufacturer offers CAT6 (or higher grade) network cable in travel cable options, that cable should be ordered with the elevator and an Axis camera for IP direct connection without media conversion used so long as the total cable run is under 290 ft from IDF to elevator camera. If the copper is over 290', SM fiber in the elevator travel cable with media conversion will also allow Axis IP camera usage. If elevator manufacturer does not offer either fiber or CAT6 (or higher grade) data travel cable options, use Sony or Panasonic analog camera with cable service loops, duplex power, and media converter located inside can mounted to
		wall in elevator machine room. In that can convert from analog (e.g. coax) to digital (e.g. CAT cable to match building CAT cable or SM fiber - either way homerun from can to floor's IDF). NOTE: Required in every elevator cab, including service elevator
		NOTE: required in every elevator dab, including service elevator
64	CONTROLLER	MOTION CONTROLS
		NOTE : Required that controls are universal & not proprietary.
	ELEVATOR DOORS	GAL DOOR EQUIPMENT
	ELEVATOR CAB LIGHT FIXTURE	ERIM FIXTURES
	WHEELCHAIR LIFTS	Mitsubishi, Garaventa
	EXIT STAIR EVACUATION CHAIRS	Garaventa Evacuation chairs, EVACU-TRAC CD7 or better NOTE: Required at every exit stair, every floor.
	DIV. 21: FIRE SUPPRESSION	
	HYDRANTS	Hamos Janos ar EOHAI
		James Jones or EQUAL
71	DIV. 22: PLUMBING	James Jones of EQUAL
71 72	DIV. 22: PLUMBING PIPE	
71 72 73	DIV. 22: PLUMBING PIPE DOMESTIC/POTABLE	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions, brass/copper (Portable Water)
71 72 73	DIV. 22: PLUMBING PIPE	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions,
71 72 73 74	DIV. 22: PLUMBING PIPE DOMESTIC/POTABLE	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions, brass/copper (Portable Water) Schedule 40 and Schedule 80 PVC ½" TO 3"; C900 pipe, AWWA approved valving, resilient wedge, sleeved cans with approved concrete lids/enclosures (traffic rated, if necessary) CAST IRON, SDR-35
71 72 73 74 75 76	DIV. 22: PLUMBING PIPE DOMESTIC/POTABLE UNDERGROUND WATER IRRIGATION PIPING UNDERGROUND SANITARY PIPING ABOVE GROUND SANITARY PIPING	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions, brass/copper (Portable Water) Schedule 40 and Schedule 80 PVC ½" TO 3"; C900 pipe, AWWA approved valving, resilient wedge, sleeved cans with approved concrete lids/enclosures (traffic rated, if necessary) CAST IRON, SDR-35 CAST IRON TYLER PIPE/DWV COPPER
71 72 73 74 75 76	DIV. 22: PLUMBING PIPE DOMESTIC/POTABLE UNDERGROUND WATER IRRIGATION PIPING UNDERGROUND SANITARY PIPING	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions, brass/copper (Portable Water) Schedule 40 and Schedule 80 PVC ½" TO 3"; C900 pipe, AWWA approved valving, resilient wedge, sleeved cans with approved concrete lids/enclosures (traffic rated, if necessary) CAST IRON, SDR-35
71 72 73 74 75 76 77	DIV. 22: PLUMBING PIPE DOMESTIC/POTABLE UNDERGROUND WATER IRRIGATION PIPING UNDERGROUND SANITARY PIPING ABOVE GROUND SANITARY PIPING	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions, brass/copper (Portable Water) Schedule 40 and Schedule 80 PVC ½" TO 3"; C900 pipe, AWWA approved valving, resilient wedge, sleeved cans with approved concrete lids/enclosures (traffic rated, if necessary) CAST IRON, SDR-35 CAST IRON TYLER PIPE/DWV COPPER C-900, MEGA LUG FTGS APPROVED CI CONN FLANGE. LEAD FREE FOR
71 72 73 74 75 76 77	DIV. 22: PLUMBING PIPE DOMESTIC/POTABLE UNDERGROUND WATER IRRIGATION PIPING UNDERGROUND SANITARY PIPING ABOVE GROUND SANITARY PIPING PIPE TUBING AND FITTINGS	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions, brass/copper (Portable Water) Schedule 40 and Schedule 80 PVC ½" TO 3"; C900 pipe, AWWA approved valving, resilient wedge, sleeved cans with approved concrete lids/enclosures (traffic rated, if necessary) CAST IRON, SDR-35 CAST IRON TYLER PIPE/DWV COPPER C-900, MEGA LUG FTGS APPROVED CI CONN FLANGE. LEAD FREE FOR ALL POTABLE FITTING MATERIAL (FLANGES/BRASS/COPPER). BLACK SCH 40 INDOOR ONLY W/ SIMILAR FTGS. GALVANIZED FOR EXPOSED (ATMOSPHERE) TRANSITIONS AND MANIFOLDS. FULL PORT
71 72 73 74 75 76 77 78	DIV. 22: PLUMBING PIPE DOMESTIC/POTABLE UNDERGROUND WATER IRRIGATION PIPING UNDERGROUND SANITARY PIPING ABOVE GROUND SANITARY PIPING PIPE TUBING AND FITTINGS STEEL PIPE FUEL GAS/NATURAL GAS	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions, brass/copper (Portable Water) Schedule 40 and Schedule 80 PVC ½" TO 3"; C900 pipe, AWWA approved valving, resilient wedge, sleeved cans with approved concrete lids/enclosures (traffic rated, if necessary) CAST IRON, SDR-35 CAST IRON TYLER PIPE/DWV COPPER C-900, MEGA LUG FTGS APPROVED CI CONN FLANGE. LEAD FREE FOR ALL POTABLE FITTING MATERIAL (FLANGES/BRASS/COPPER). BLACK SCH 40 INDOOR ONLY W/ SIMILAR FTGS. GALVANIZED FOR EXPOSED (ATMOSPHERE) TRANSITIONS AND MANIFOLDS. FULL PORT VALVING OF EQUAL OR GREATER. Red Brass, Schedule 40. LEAD FREE MATERIAL FOR ALL MATERIAL USED
71 72 73 74 75 76 77 78 79 80	DIV. 22: PLUMBING PIPE DOMESTIC/POTABLE UNDERGROUND WATER IRRIGATION PIPING UNDERGROUND SANITARY PIPING ABOVE GROUND SANITARY PIPING PIPE TUBING AND FITTINGS STEEL PIPE FUEL GAS/NATURAL GAS BRASS PIPE	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions, brass/copper (Portable Water) Schedule 40 and Schedule 80 PVC ½" TO 3"; C900 pipe, AWWA approved valving, resilient wedge, sleeved cans with approved concrete lids/enclosures (traffic rated, if necessary) CAST IRON, SDR-35 CAST IRON TYLER PIPE/DWV COPPER C-900, MEGA LUG FTGS APPROVED CI CONN FLANGE. LEAD FREE FOR ALL POTABLE FITTING MATERIAL (FLANGES/BRASS/COPPER). BLACK SCH 40 INDOOR ONLY W/ SIMILAR FTGS. GALVANIZED FOR EXPOSED (ATMOSPHERE) TRANSITIONS AND MANIFOLDS. FULL PORT VALVING OF EQUAL OR GREATER. Red Brass, Schedule 40. LEAD FREE MATERIAL FOR ALL MATERIAL USED WITH POTABLE WATER DISTRIBUTION.
71 72 73 74 75 76 77 78 80 81	DIV. 22: PLUMBING PIPE DOMESTIC/POTABLE UNDERGROUND WATER IRRIGATION PIPING UNDERGROUND SANITARY PIPING ABOVE GROUND SANITARY PIPING PIPE TUBING AND FITTINGS STEEL PIPE FUEL GAS/NATURAL GAS BRASS PIPE COPPER TUBING	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions, brass/copper (Portable Water) Schedule 40 and Schedule 80 PVC ½" TO 3"; C900 pipe, AWWA approved valving, resilient wedge, sleeved cans with approved concrete lids/enclosures (traffic rated, if necessary) CAST IRON, SDR-35 CAST IRON TYLER PIPE/DWV COPPER C-900, MEGA LUG FTGS APPROVED CI CONN FLANGE. LEAD FREE FOR ALL POTABLE FITTING MATERIAL (FLANGES/BRASS/COPPER). BLACK SCH 40 INDOOR ONLY W/ SIMILAR FTGS. GALVANIZED FOR EXPOSED (ATMOSPHERE) TRANSITIONS AND MANIFOLDS. FULL PORT VALVING OF EQUAL OR GREATER. Red Brass, Schedule 40. LEAD FREE MATERIAL FOR ALL MATERIAL USED WITH POTABLE WATER DISTRIBUTION. Type "K" or "TYPE L" GRADES ONLY, NO "M", No Substitutes Domestic. LEAD FREE MATERIAL FOR ALL MATERIAL USED WITH
71 72 73 74 75 76 77 78 79 80 81 82	DIV. 22: PLUMBING PIPE DOMESTIC/POTABLE UNDERGROUND WATER IRRIGATION PIPING UNDERGROUND SANITARY PIPING ABOVE GROUND SANITARY PIPING PIPE TUBING AND FITTINGS STEEL PIPE FUEL GAS/NATURAL GAS BRASS PIPE COPPER TUBING BRASS SCHEDULE 40 SOLDER JOINT FTG'S	C900 BLUE, COPPER K, #80 PVC. Lead free on all ferus transitions, brass/copper (Portable Water) Schedule 40 and Schedule 80 PVC ½" TO 3"; C900 pipe, AWWA approved valving, resilient wedge, sleeved cans with approved concrete lids/enclosures (traffic rated, if necessary) CAST IRON, SDR-35 CAST IRON TYLER PIPE/DWV COPPER C-900, MEGA LUG FTGS APPROVED CI CONN FLANGE. LEAD FREE FOR ALL POTABLE FITTING MATERIAL (FLANGES/BRASS/COPPER). BLACK SCH 40 INDOOR ONLY W/ SIMILAR FTGS. GALVANIZED FOR EXPOSED (ATMOSPHERE) TRANSITIONS AND MANIFOLDS. FULL PORT VALVING OF EQUAL OR GREATER. Red Brass, Schedule 40. LEAD FREE MATERIAL FOR ALL MATERIAL USED WITH POTABLE WATER DISTRIBUTION. Type "K" or "TYPE L" GRADES ONLY, NO "M", No Substitutes Domestic. LEAD FREE MATERIAL FOR ALL MATERIAL USED WITH POTABLE WATER DISTRIBUTION.

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•	STANDARD	CAMPUS ALTERNATIVES
84	BUILDING DRAIN, WASTE & VENT	CAST IRON NO HUB, NO HUB COUPLINGS, CAST IRON, FTGS./DWV
		COPPER (Domestic ONLY)
85	PIPE AND FITTINGS	Standard D2751-88 Cast Iron, no-hub pipe and fittings (waste) (Domestic ONLY)
86	PLUMBING FIXTURES	
87	TOILET FIXTURES (Low Flow, Viterous China)	American Standard, Zurn, Kohler, 1.28 GPF (Sloan valves-#111- 1.280ES0S-
		YO Royal Optima)
88	SINKS	American Standard, Kohler, Zurn (Vitreous China Lavatories)
89	KITCHEN SINKS	Elkay, Kohler, Zurn, Franke (Stainless Steel) (or as determined acceptable by ELAC)
90	SERIVCE SINKS	Chicago Wall mount (Faucets & Sinks). SERVICE SINK
		(HOPPER/CUSTODIAL) TO HAVE VACUUM BREAKER ON ALL WALL
		FAUCET(S).
91	URINALS (Low Flow)	American Standard, Sloan (vlave) Kohler (china porcelain). TOUCHLESS
		FLUSH VALVE, SLOAN PRODUCTS (NO ZURN).
92	URINALS (Waterless)	DO NOT USE
93	FAUCETS	Chicago/Brass Craft-automatic, OR MANUAL ONLY, NO ZURN OR
		SUBSTITUTE. TOUCHLESS SENSOR FIXTURES IN ALL PUBLIC CORE AND
		PRIVATE RESTROOMS. CHICAGO/SLOAN PRODUCTS. (NO ZURN OR
		ALTERNATES) PRODUCT TO MIMIC MAIN CAMPUS AND SATELLITES.
		CAMPUS PREFERS SINGLE FIXTURE SENSOR VERSUS BATTERY OF
		FIXTURES WITH TRANSFORMER AND HARD-WIRED WALL FIXTURES AND
		RECEPTICLES.
94	FLUSH VALVES - TOILETS, URINALS	Sloan ONLY, MANUAL OR SENSORNO ZURN OR SUB, 1.28 GPF.
94	FEOSIT VALVES - TOILETS, UNINALS	TOUCHLESS SENSOR FIXTURES IN ALL PUBLIC CORE AND PRIVATE
		RESTROOMS. CHICAGO/SLOAN PRODUCTS. (NO ZURN OR ALTERNATES)
		PRODUCT TO MIMIC MAIN CAMPUS AND SATELLITES. CAMPUS PREFERS
		SINGLE FIXTURE SENSOR VERSUS BATTERY OF FIXTURES WITH
		TRANSFORMER AND HARD-WIRED WALL FIXTURES AND RECEPTICLES.
95	DOMESTIC WATER HEATER	RHEEM, BRADFORD WHITE, Lochinvar NO AO SMITH
96	CIRCULATING PUMP	GRUNDFOS or Honeywell WITH EQUAL TIMERS IF NECESSARY/NO
		SUBSTITUTE
	PLUMBING VALVES AND ACCESSORIES	
98	GENERAL	NIBCO, Kohler, Sloan, DOMESTIC PRODUCT ONLY, LEAD FREE WHERE
00	EVDANCION TANKO	APPLICABLE/ NO SUBSTITUTE
	EXPANSION TANKS	AMTROL, Watts
100	BACKFLOW PREVENTERS	Watts, Zurn/WILKINS. LEAD FREE IN ALL POTABLE WATER APPLICATIONS.
101	EXTINGUISHERS/CABINETS	Larsens, Potter Roeme, JL Industries
		NOTE: Required Semi or fully recessed cabinets
102	CLEAN OUTS	J.R. Smith, Zurn,
	FLOOR DRAINS	J.R. Smith Model 2005Y (round top),
104	TRAP PRIMERS	Sloan tail piece (use for system having low-flow fixtures) automatic or connect to
		flush valve
	ROOF DRAINS	J.R. Smith, Zurn, Josam
106	BALL VALVES	NIBCO (BRASS, FULL PORT) LEAD FREE IN ALL POTABLE WATER APPLICATIONS.
407	GATE VALVES	NIBCO (UNION BONNET, RAISED STEM) LEAD FREE IN ALL POTABLE
107		WATER APPLICATIONS.

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	STANDARD	CAMPUS ALTERNATIVES
109	CHECK VALVES	NIBCO (BRASS) LEAD FREE IN ALL POTABLE WATER APPLICATIONS.
110	VALVES(WATER, BELOW GROUND)	STOCKHAM (CAST IRON FLANGED AWWA WITH OPERATING NUT)
	BACKWATER VALVES	Zurn, JR Smith
	DRAIN PUMPS	Well Pump, Peerless. ZOELLER.
	PRESSURE REGULATOR	Watts LEAD FREE IN ALL POTABLE WATER APPLICATIONS.
	CHECK VALVES for 4" or larger line	Zurn. LEAD FREE IN ALL POTABLE WATER APPLICATIONS.
115	HOSE BIBB BOX	Stainless steel recessed w/ loose key handle, Acorn 8141/8102
440	DIOTONIANTED HANNED	NOTE: Required 2-3 exterior lockable hose bibs per elevation.
116	PISTON WATER HAMMER	MIFAB MWA Series. LEAD FREE IN ALL POTABLE WATER APPLICATIONS.
117	BOILER	Lockinvar, Raypack (NO Condensing Boilers)
	EMERGENCY EYEWASH & SHOWER	Lookintal, Naypuok (No Condonoling Bollolo)
	EMERGENCY EYEWASH & SHOWERS	Haws, Bradley, Watersaver
	EMERGENOT ETEMAGNA GNOWERG	NOTE: Floor drain required at every eye wash/emergency shower station.
		The state of the s
120	WATER FOUNTAINS	
121	DRINKING WITH BOTTLE FILLING	Haws, Halsey Taylor,
122	DIV. 23: HEATING, VENTILLATION & AIR CONDI	TIONING (HVAC)
123	HVAC	HVAC (MUST HAVE BACNET CONTROL PANEL TO TALK TO CAMPUS
		NETWORK) Honeywell, Johnson FX, Vykon full open
124	A/C UNITS, ROOF MOUNTED	(GAS ELECTRICS/HEAT PUMPS)CARRIER, YORK & TRANE, Daikin
		(McQuay) Honeywell, Johnson FX, Vykon. Fully open BACnet
	A/C UNITS WALL MOUNTED	BARD, HEAT PUMPS, TRANE
126	AIR HANDLERS – CUSTOM	TEMTROL, UNITED METAL PRODUCTS, TRANE, ENERGY LABS, Daikin
		(McQuay) w/BACnet
107	AIR HANDLERS	CARRIED VORK TRANE Doilin (McCupy)
	HVAC HYDRONIC CONTROL VALVE	CARRIER, YORK, TRANE, Daikin (McQuay) BELIMO TWO WAY and Victaulic IMI smart valves
	HVAC HEATING & COOLING CONTROL VALVE	BELIMO PICCV TWO WAY WITH RESERVING SWITCH and Victaulic IMI
129	HVAC HEATING & COOLING CONTROL VALVE	smart valves
130	HVAC HYDRONIC PIPE FLANGE ADAPTER	OMNI,
100	CONNECTIONS	OWINI,
131	MOTORS	BALDOR, GE, DAYTON
	PUMPS	PACO, BELL & GOSSETT, ARMSTRONG
133	COOLING TOWERS	BALTIMORE AIR COIL, MARLEY, EVAPCO (STAINLESS STEEL)
	OTHER FILTERS	AMERICAN, FAN & TRIDERN, 3-M
135	BOILER CONTROLS-HOT WATER	Lockinvar, Raypack, Parker w/BACnet card to EMES
136	BOILER CONTROLS-STEAM	Parker w/BACnet card to EMES
137	FAN COILS DX	Carrier, York, Trane, w/BACnet card to EMES
	COMPUTER ROOM AC UNITS	APC, LIEBERT, DATA AIRE w/BACnet card to EMES
	CHILLED WATER FAN COILS	Carrier, York, Trane, McQuay, Daikin w/BACnet card to EMS
140	AIR COOLED CHILLER	Carrier, York, Trane, McQuay, Daikin w/BACnet card to EMS
	CENTRIFUGAL WATER-COOLED CHILLER	Carrier, York, Trane, McQuay, Daikin w/BACnet card to EMS
	SCREW-TYPE AIR COOLED CHILLER	Carrier, York, Trane, McQuay, Daikin w/BACnet card to EMS
	SCREW-TYPE WATER COOLED CHILLER	Carrier, York, Trane, McQuay, Daikin w/BACnet card to EMS
	SCROLL-TYPE AIR COOLED CHILLER	Carrier, York, Trane, McQuay, Daikin w/BACnet card to EMS
145	CHILLER-GENERAL	Carrier, York, Trane, McQuay, Daikin w/BACnet card to EMS
146	ABSORBTION CHILLER	Carrier, York, Trane, McQuay, Daikin w/BACnet card to EMS
147	OTHER ABSORBTION CHILLER	BROAD, THERMAX w/BACnet card to EMES
148	VENTILATORS AND EXHAUST FANS	COOK, GREENHECK
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150 VA 151 HY 152 AIF 153 TH 154 DIV 155 EN 156 DIV 157 EL 158 INT inc 159 CC 160 EX 161 EL 162 EL 163 INT 164 LIC	STANDARD IRE SMOKE DAMPER ARIABLE FREQUENCY DRIVES YDRONIC PIPIING IR CONIDITIONING THERMOSTAT HERMOSTAT LOCK BOX IV. 25: INTEGRATED AUTOMATION NERGY MANAGEMENT SYSTEM IV. 26: ELECTRICAL LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR ANDAL PROOF LIGHTING FIXTURES	BELIMO W/ END SWITCH TO COMMUNICATE TO EMS, RUSKIN AND KRUGER w/BACnet card ABB, DANFOSS, TOSHIBA (With BACnet compatibility) CARBON STEEL, SCH 80, INSULATED PVC PERMA PIPE, THERMACOR AND ROVANCO TOTAL LINE, 3-HEATING/2-COOL/HEATPUM/DIGTIAL 7 DAY PROGRAMMABLE PIN P 374-2800 HONEYWELL/LARGE OPQUE/PINTG 512B1007 Fully open protocol BACnet/Honeywell, Vykon, Johnson FX Prudential, Lithonia, HE Williams, Lightolier. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation. Prudential, Lithonia, Philips
150 VA 151 HY 152 AIF 153 TH 154 DIV 155 EN 156 DIV 157 EL 158 INT inc 159 CC 160 EX 161 EL 162 EL 163 INT 164 LIC	ARIABLE FREQUENCY DRIVES YDRONIC PIPIING IR CONIDITIONING THERMOSTAT HERMOSTAT LOCK BOX IV. 25: INTEGRATED AUTOMATION NERGY MANAGEMENT SYSTEM IV. 26: ELECTRICAL LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	ABB, DANFOSS, TOSHIBA (With BACnet compatibility) CARBON STEEL, SCH 80, INSULATED PVC PERMA PIPE, THERMACOR AND ROVANCO TOTAL LINE, 3-HEATING/2-COOL/HEATPUM/DIGTIAL 7 DAY PROGRAMMABLE PIN P 374-2800 HONEYWELL/LARGE OPQUE/PINTG 512B1007 Fully open protocol BACnet/Honeywell, Vykon, Johnson FX Prudential, Lithonia, HE Williams, Lightolier. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
151 HY 152 AIF 153 TH 154 DIN 155 EN 156 DIN 157 EL 158 INT 160 EX 161 EL 162 EL 163 INT	YDRONIC PIPIING IR CONIDITIONING THERMOSTAT HERMOSTAT LOCK BOX IV. 25: INTEGRATED AUTOMATION NERGY MANAGEMENT SYSTEM IV. 26: ELECTRICAL LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	ABB, DANFOSS, TOSHIBA (With BACnet compatibility) CARBON STEEL, SCH 80, INSULATED PVC PERMA PIPE, THERMACOR AND ROVANCO TOTAL LINE, 3-HEATING/2-COOL/HEATPUM/DIGTIAL 7 DAY PROGRAMMABLE PIN P 374-2800 HONEYWELL/LARGE OPQUE/PINTG 512B1007 Fully open protocol BACnet/Honeywell, Vykon, Johnson FX Prudential, Lithonia, HE Williams, Lightolier. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
151 HY 152 AIF 153 TH 154 DIN 155 EN 156 DIN 157 EL 158 INT 160 EX 161 EL 162 EL 163 INT	YDRONIC PIPIING IR CONIDITIONING THERMOSTAT HERMOSTAT LOCK BOX IV. 25: INTEGRATED AUTOMATION NERGY MANAGEMENT SYSTEM IV. 26: ELECTRICAL LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	CARBON STEEL, SCH 80, INSULATED PVC PERMA PIPE, THERMACOR AND ROVANCO TOTAL LINE, 3-HEATING/2-COOL/HEATPUM/DIGTIAL 7 DAY PROGRAMMABLE PIN P 374-2800 HONEYWELL/LARGE OPQUE/PINTG 512B1007 Fully open protocol BACnet/Honeywell, Vykon, Johnson FX Prudential, Lithonia, HE Williams, Lightolier. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
152 AIF 153 TH 154 DIN 155 EN 156 DIN 157 EL 158 INT 160 EX 161 EL 162 EL	HERMOSTAT LOCK BOX IV. 25: INTEGRATED AUTOMATION NERGY MANAGEMENT SYSTEM IV. 26: ELECTRICAL LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	AND ROVANCO TOTAL LINE, 3-HEATING/2-COOL/HEATPUM/DIGTIAL 7 DAY PROGRAMMABLE PIN P 374-2800 HONEYWELL/LARGE OPQUE/PINTG 512B1007 Fully open protocol BACnet/Honeywell, Vykon, Johnson FX Prudential, Lithonia, HE Williams, Lightolier. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
153 TH 154 DIV 155 EN 156 DIV 157 EL 158 INT inc 159 CC 160 EX 161 EL 162 EL 163 INT 164 LIC	HERMOSTAT LOCK BOX IV. 25: INTEGRATED AUTOMATION NERGY MANAGEMENT SYSTEM IV. 26: ELECTRICAL LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	PROGRAMMABLE PIN P 374-2800 HONEYWELL/LARGE OPQUE/PINTG 512B1007 Fully open protocol BACnet/Honeywell, Vykon, Johnson FX Prudential, Lithonia, HE Williams, Lightolier. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
154 DIN 155 EN 156 DIN 157 EL 158 IN 159 CC 160 EX 161 EL 162 EL 163 IN 164 LIC	IV. 25: INTEGRATED AUTOMATION NERGY MANAGEMENT SYSTEM IV. 26: ELECTRICAL LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	HONEYWELL/LARGE OPQUE/PINTG 512B1007 Fully open protocol BACnet/Honeywell, Vykon, Johnson FX Prudential, Lithonia, HE Williams, Lightolier. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
154 DIN 155 EN 156 DIN 157 EL 158 IN 159 CC 160 EX 161 EL 162 EL 163 IN 164 LIC	IV. 25: INTEGRATED AUTOMATION NERGY MANAGEMENT SYSTEM IV. 26: ELECTRICAL LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	Fully open protocol BACnet/Honeywell, Vykon, Johnson FX Prudential, Lithonia, HE Williams, Lightolier. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
155 EN 156 DIN 157 EL 158 INT 159 CC 160 EX 161 EL 162 EL 163 INT 164 LIC	NERGY MANAGEMENT SYSTEM IV. 26: ELECTRICAL LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	Prudential, Lithonia, HE Williams, Lightolier. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
156 DIN 157 EL 158 INT 159 CC 160 EX 161 EL 162 EL 163 INT 164 LIC	IV. 26: ELECTRICAL LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	Prudential, Lithonia, HE Williams, Lightolier. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
157 EL 158 INT inc 159 CC 160 EX 161 EL 162 EL 163 INT 164 LIC	LECTRICAL FIXTURES ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
158 INT inc 159 CC 160 EX 161 EL 162 EL 163 INT 164 LIC	ITERIOR LIGHT FIXTURES(florescent, LED) No candesce light fixture ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
159 CC 160 EX 161 EL 162 EL 163 INT 164 LIC	ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
159 CC 160 EX 161 EL 162 EL 163 IN 164 LIC	ONNECT WITH EMERGENCY LIGHTS XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	through BACnet. Enlighted, Blue Ridge Tech Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
160 EX 161 EL 162 EL 163 IN 164 LIC	XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	Alertron to emergency grid LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
160 EX 161 EL 162 EL 163 IN 164 LIC	XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
160 EX 161 EL 162 EL 163 IN 164 LIC	XIT SIGNS LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	LED, Active Safety ™, Pentico, Lithonia, Exitronix PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
161 EL 162 EL 163 IN 164 LIC	LECTRONIC WIRELESS WALL CLOCKS LECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	PRIMEX ONLY NO SUB NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
162 EL 163 IN 164 LIC	IECTRICAL OUTLETS ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	NOTE: Required 2-3 dedicated lockable electrical outlets per elevation.
163 IN	ITERIOR SUSPENDED LIGHTS IGHTING/INDOOR-OUTDOOR	
164 LIC	IGHTING/INDOOR-OUTDOOR	Prudential, Lithonia, Philips
165 VA	ANDAL PROOF LIGHTING FIXTURES	
		Rude, Stanco, Sequoia, BE, Lucalux, Matalux. Smart system, preferably in the IoT platform. The controls will have to communicate and work with HVAC controls through BACnet. Enlighted, Blue Ridge Tech
166 LA	ANDSCAPING FIXTURES	
167 EX	XTERIOR LIGHTS-PARKING LOT	LED (Lamp wattage to match existing)
168 LIC	GHT SENSORS	"Watt Stopper", LUTRON
169 PA	ARKING LOT	Philips, Gardco, Gullwing LED GL 13 & GL 18
170 AT	THLETIC FIELD	Musco, Morris, Lithonia
171 EL	LECTRICAL EQUIPMENT	
	AIN SWITCHBOARD	Square D, GE, Cutler Hammer. Selection to match existing
	AIN DISTRIBUTION SWITCHBOARDS	Square D, GE, Cutler Hammer. Selection to match existing
	RY TYPE TRANSFORMERS	Square D, GE, Cutler Hammer.
	AGNETIC MOTOR STARTERS	Square D, GE, Cutler Hammer.
	OFT START MOTOR STARTERS	Square D, GE, Cutler Hammer.
	ANELBOARDS	Square D, GE, Cutler Hammer.
	CC (MOTOR CONTROL CENTERS)	Square D, GE, Cutler Hammer.
180 DR	,	ABB, Toshiba, Square D
	LECTRICAL FINISH FACE PLATES	STAINLESS FINISH PLATES
	LECTRIC VEHICLES/ CHARGERS	OTAMAZZOOT IMIOTTI ZATZO
	LECTRIC VEHICLES AND CHARGERS	STAINLESS FINISH PLATES
	HARGER Mfr	STAINLESS FINISH PLATES
	MERGENCY POWER SYSTEM-GRID MATRIX	OTAINEESS FINISHTEN
	MERCENOTI ONER OTOTEM-ORD MATRIX	
186 CC	ONNECT WITH SUMP PUMPS	Alertron to emergency grid
187 CC	ONNECT WITH C02 SENSORS	Alertron to emergency grid
188 CC		Alertron to emergency grid
189 EN	ONNECT WITH EMS/CMMMS	productive chickgoing gird

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228 Ladder Racks 24" CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D		STANDARD	CAMPUS ALTERNATIVES
platform. The controls will have to communicate and work with HVAC controls through BACnet, Enlighted, Blue Ridge Tech, Johnson FX Fully open protocol BACnet/Honeywell Preserved Honeywell Preserv	190	EMERGENCY MANAGEMENT SYSTEM	Fully open protocol BACnet/Honeywell. Smart system, preferably in the IoT
ENERGY MANAGEMENT SYSTEM			platform. The controls will have to communicate and work with HVAC controls
Alerton Alerton Alerton Alerton			through BACnet. Enlighted, Blue Ridge Tech, Johnson FX
Alerton Alerton Alerton Alerton			
Alerton LIGHTING SUPPLIES			Fully open protocol BACnet/Honeywell
IGHTING SUPPLIES Sylvania, GE, Phillips, 4100K, Min 80CRI, (Sylvania Preferred)			
Sylvania, GE, Phillips, 4100K, Min 80CRI, (Sylvania Preferred), LED			Alerton
Sylvania Preferred Sylvania Preferred			
EMERGENCY POWER SYSTEMS			· · · · · · · · · · · · · · · · · · ·
Div. 27: COMMUNICATIONS APC, MGE, Schneider Electric (For BDF and IDFs, use rackmountable SKVA APC, MGE, Schneider Electric (For BDF and IDFs, use rackmountable SKVA APC, MGE, Schneider Electric (For BDF and IDFs, use rackmountable SKVA and all brackets). Div. 27: COMMUNICATIONS APC or Eaton models with minimum 30min runtime at maximum UPS load, L6-30 plug, network card, 2 L6-30 rack PDUs per UPS, appopriate power cords, and all brackets). Div. 27: COMMUNICATIONS Apple of the provided of the power cords and all brackets). Div. 27: COMMUNICATIONS Apple of the provided of the power cords and all brackets). Div. 27: COMMUNICATIONS Apple of the provided of the power cords and all brackets). Div. 27: COMMUNICATIONS Apple of the provided of the power cords and all brackets). Div. 27: COMMUNICATIONS Apple of the provided of			Sylvania, <i>Phillips, GE</i> (Sylvania Preferred)
APC, MGE, Schneider Electric (For BDF and IDFs, use rackmountable SKVA APC or Eaton models with minimum 30min runtime at maximum UPS load, L6-30 plug, network card, 2 L6-30 rack PDUs per UPS, appopriate power cords, and all brackets). 201 DIV. 27: COMMUNICATIONS 202 27 05 00 COMMON RESULTS FOR COMM 203 Structured Cabling System Warranty 204 27 05 26 GROUNDING & BONDING 205 Bus Bar Lyncote XIT, Chatsworth, Hargar 206 27 05 28 PATHWAYS FOR COMM SYSTEMS 207 EMT Conduits & Couplings & Connectors 208 Conduit Supports 209 Hangers & Cable Ties 209 Hangers & Cable Ties 200 Metal Outlet Boxes - Double Gang, Extra Deep 201 Metal Outlet Boxes - Double Gang, Extra Deep 202 Appleton, Raco, Steel City 203 27 05 43 UG DUCTS & RACEWAY FOR COMM 204 Menholes 205 Utility Vault (Oldcastle), Jensen, Brooks 206 Utility Vault (Oldcastle), Jensen, Brooks 207 Villey Vault (Oldcastle), Jensen, Brooks 208 Willey B Hardware 209 In July Rope 1700 Ib tensile strength 201 Ductor Strength 202 Carlon 203 27 05 43 UG DUCTS & RACEWAY FOR COMM 204 Menholes 205 Mondits (Schedule 40 or Type C) 206 Carlon 207 Conduits (Schedule 40 or Type C) 208 Conditing ribbon (in vaults) 209 In WESCO Cat 12A55 200 Bonding ribbon (in vaults) 200 INWESCO Cat 12A56 201 Bonding ribbon (in vaults) 202 Fargo Clamp 203 INWESCO Cat 12A66 204 Ground Inserts (Cast Bronze) 205 Manhole Lids 206 Manhole Lids 207 APC NetSheiter, SIEMON VERSAPOD, V600, V600, Netsheiter SV			
APC or Eaton models with minimum 30min runtime at maximum UPS load, L6-30 plug, network card, 2 L6-30 rack PDUs per UPS, appopriate power cords, and all brackets). 202 27 05 00 COMMON RESULTS FOR COMM 203 Structured Cabling System Warranty Minimum 25 year warranty 204 27 05 26 GROUNDING & BONDING 205 Bus Bar Lyncote XIT, Chatsworth, Hargar 206 27 05 28 PATHWAYS FOR COMM SYSTEMS 207 EMT Conduits & Couplings & Connectors Appleton, Crouse-Hinds 208 Conduit Supports Kindorf, Unistrut, Thomas & Betts 209 Hangers & Cable Ties Chatsworth Products, Cooper B-Line, Caddy, Mono Appleton, Raco, Steel City 211 Pull Boxes and Cabinets Hoffman Enclosures, Wire Guard 212 Cable Tray 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Hornaco, Square D 213 27 05 43 UG DUCTS & RACEWAY FOR COMM 214 Manholes Utility Vault (Oldcastle), Jensen, Brooks 215 Pull boxes Utility Vault (Oldcastle), Jensen, Brooks w/ Spring Loaded LID 216 MH/PB Hardware INWESCO products 217 Conduits (Schedule 40 or Type C) Carlon, Wiremold, Panduit 218 Detectable Warning Tape Carlon 219 Pull, Rope 1700 lb tensile strength Carlon 210 Pull, Rope 1700 lb tensile strength Carlon 211 INWESCO Cat 12A55 212 Bonding ribbon (In vaults) INWESCO Cat 12A56 213 Bonding ribbon (In vaults) INWESCO Cat 12A60 214 Manhole Lids Alhambra Foundry, OPW manhole 215 Manhole Lids Alhambra Foundry, OPW manhole 216 Jane Commendation of the St. Netshelter St. Netshelter St. 217 Colouble Ladders Alhambra Foundry, OPW manhole 218 Ladder Racks 24" CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 219 APC NetShelter, SIEMON VERSAPOD, V600, Netshelter SX, Netshelter SV			·
30 plug, network card, 2 L6-30 rack PDUs per UPS, appopriate power cords, and all brackets). 201 DIV. 27: COMMUNICATIONS 202 27 05 00 COMMON RESULTS FOR COMM 203 Structured Cabiling System Warranty Minimum 25 year warranty 204 27 05 26 GROUNDING & BONDING 205 Bus Bar Lyncote XIT, Chatsworth, Hargar 206 27 05 28 PATHWAYS FOR COMM SYSTEMS 207 EMT Conduits & Couplings & Connectors Appleton, Crouse-Hinds 208 Conduit Supports Kindorf, Unistrut, Thomas & Betts 209 Hangers & Cable Ties Chatsworth Products, Cooper B-Line, Caddy, Mono 210 Metal Outlet Boxes - Double Gang, Extra Deep Appleton, Raco, Steel City 211 Pull Boxes and Cabinets Hoffman Enclosures, Wire Guard 212 Cable Tray 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 213 27 05 43 UG DUCTS & RACEWAY FOR COMM 214 Manholes Utility Vault (Oldcastle), Jensen, Brooks 215 Pull boxes Utility Vault (Oldcastle), Jensen, Brooks W/ Spring Loaded LID 216 MH/PB Hardware INWESCO products 217 Conduits (Schedule 40 or Type C) Carlon, Wiremold, Panduit 218 Detectable Warning Tape Carlon 219 Pull, Rope 1700 Ib tensile strength Carlon 210 Bonding ribbon (In vaults) INWESCO Cat 12A55 221 Bonding ribbon (In vaults) INWESCO Cat 12A66 222 Fargo Clamp INWESCO Cat 12A67 223 Ground Roed 224 Ground Inserts (Cast Bronze) INWESCO Cat 12A66 225 Manhole Lids Alhambra Foundry, OPW manhole 226 Manhole Lids Alhambra Foundry Open Model A-3382 w/ A3383 Support bar 227 27 110 COMM EQUIP. ROOM FITTINGS 228 Ladder Racks 24" CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 229 Equipment Racks APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter 229 Equipment Racks APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter	200	IUPS	
and all brackets). DIV. 27: COMMUNICATIONS			
DIV. 27: COMMUNICATIONS 27 27 05 00 COMMON RESULTS FOR COMM 28 27 05 26 GROUNDING & BONDING 29 28 27 05 28 GROUNDING & BONDING 20 27 05 28 PATHWAYS FOR COMM SYSTEMS 20 27 05 28 PATHWAYS FOR COMM SYSTEMS 207 EMT Conduits & Couplings & Connectors			
27	201	DIV 27: COMMUNICATIONS	
Structured Cabling System Warranty Minimum 25 year warranty 7 95 26 GROUNDING & BONDING Bus Bar Lyncote XIT, Chatsworth, Hargar Appleton, Crouse-Hinds Kindorf, Unistrut, Thomas & Betts Chatsworth Products, Cooper B-Line, Caddy, Mono Appleton, Raco, Steel City Hull Boxes and Cabinets Hoffman Enclosures, Wire Guard Lyd (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D Lyd (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton,			
204 27 05 26 GROUNDING & BONDING 205 Bus Bar Lyncote XIT, Chatsworth, Hargar 206 27 05 28 PATHWAYS FOR COMM SYSTEMS 207 EMT Conduits & Couplings & Connectors Appleton, Crouse-Hinds 208 Conduit Supports Kindorf, Unistrut, Thomas & Betts 209 Hangers & Cable Ties Chatsworth Products, Cooper B-Line, Caddy, Mono 210 Metal Outlet Boxes - Double Gang, Extra Deep Appleton, Raco, Steel City 211 Pull Boxes and Cabinets Hoffman Enclosures, Wire Guard 212 Cable Tray 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 213 27 05 43 UG DUCTS & RACEWAY FOR COMM 214 Manholes Utility Vault (Oldcastle), Jensen, Brooks 215 Pull boxes Utility Vault (Oldcastle), Jensen, Brooks w/ Spring Loaded LID 216 MH/PB Hardware INWESCO products 217 Conduits (Schedule 40 or Type C) Carlon, Wiremold, Panduit 218 Detectable Warning Tape Carlon 219 Pull, Rope 1700 lb tensile strength Carlon 210 Bonding ribbon (In vaults) INWESCO Cat 12A55 211 Bonding ribbon clamps (In vaults) INWESCO Cat 12A66 212 Fargo Clamp INWESCO Cat 12A60 213 Ground Rod INWESCO Cat 12A60 214 Ground Inserts (Cast Bronze) INWESCO Cat 12H69 215 Alhambra Foundry, OMD manhole 216 Mahnole Ladders Alhambra Foundry, PM manhole 217 Alhambra Foundry, OMD Medal A-3382 w/ A3383 Support bar 218 Catler Racks 24" CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 219 Catler Sequence APC NetShelter, SIEMON VERSAPOD, V600, Netshelter SX, Netshelter SX			Minimum 25 year warranty
Lyncote XIT, Chatsworth, Hargar		, , ,	Infilition 20 year warranty
270 EMT Conduits & Couplings & Connectors Appleton, Crouse-Hinds Conduit Supports Kindorf, Unistrut, Thomas & Betts Chatsworth Products, Cooper B-Line, Caddy, Mono Appleton, Raco, Steel City Pull Boxes and Cabinets Hoffman Enclosures, Wire Guard 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 211 Manholes Utility Vault (Oldcastle), Jensen, Brooks Utility Vault (Oldcastle), Jensen, Brooks w/ Spring Loaded LID INWESCO products Detectable Warning Tape Carlon Pull, Rope 1700 lb tensile strength Carlon Dimin gribbon (In vaults) Bonding ribbon (In vaults) INWESCO Cat 12A55 Bonding ribbon (In vaults) INWESCO Cat 12A57 INWESCO Cat 12A57 Ground Inserts (Cast Bronze) INWESCO Cat 12A60 INWESCO Cat 12A			Il vncote XIT Chatsworth Hargar
EMT Conduits & Couplings & Connectors Appleton, Crouse-Hinds Conduit Supports Kindorf, Unistrut, Thomas & Betts Chatsworth Products, Cooper B-Line, Caddy, Mono Appleton, Raco, Steel City Hoffman Enclosures, Wire Guard 211 Pull Boxes and Cabinets Hoffman Enclosures, Wire Guard 212 Cable Tray 224" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 213 27 05 43 UG DUCTS & RACEWAY FOR COMM 214 Manholes Utility Vault (Oldcastle), Jensen, Brooks Utility Vault (Oldcastle), Jensen, Brooks W Spring Loaded LID INWESCO products 216 MH/PB Hardware 217 Conduits (Schedule 40 or Type C) Carlon, Wiremold, Panduit Carlon 219 Pull, Rope 1700 lb tensile strength Carlon 220 Bonding ribbon (In vaults) INWESCO Cat 12A55 221 Bonding ribbon clamps (In vaults) INWESCO Cat 12A66 222 Fargo Clamp INWESCO Cat 12A60			
Conduit Supports Kindorf, Unistrut, Thomas & Betts Chatsworth Products, Cooper B-Line, Caddy, Mono Appleton, Raco, Steel City Appleton, Raco, Steel City Pull Boxes and Cabinets Hoffman Enclosures, Wire Guard 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 27 05 43 UG DUCTS & RACEWAY FOR COMM Wanholes Utility Vault (Oldcastle), Jensen, Brooks Utility Vault (Oldcastle), Jensen, Brooks w/ Spring Loaded LID INWESCO products Conduits (Schedule 40 or Type C) Carlon, Wiremold, Panduit Pull, Rope 1700 lb tensile strength Carlon Pull, Rope 1700 lb tensile strength Carlon Carlon Ground Inserts (Cast Bronze) INWESCO Cat 12A56 INWESCO Cat 12A56 Ground Rod INWESCO Cat 12A60 Town Rod To	200	27 do 201 ATTIVATO I OR GOMMI O TOTEMO	
Hangers & Cable Ties Chatsworth Products, Cooper B-Line, Caddy, Mono	207	EMT Conduits & Couplings & Connectors	Appleton, Crouse-Hinds
Appleton, Raco, Steel City Hoffman Enclosures, Wire Guard 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 24" (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 25" (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 25" (Carlon Division Carlon) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 25" (Carlon Division Carlon) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 26" (Carlon Division Carlon) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 26" (Carlon Division CPI) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 27" (Carlon Division CPI) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 28" (Carlon Division CPI) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 29" (Carlon CPI) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 29" (Carlon CPI) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 29" (Carlon CPI) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 29" (Carlon CPI) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 20" (Carlon CPI) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 20" (Carlon CPI) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 20" (Carlon CPI) CPI	208	Conduit Supports	Kindorf, Unistrut, Thomas & Betts
Pull Boxes and Cabinets Hoffman Enclosures, Wire Guard 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 213 27 05 43 UG DUCTS & RACEWAY FOR COMM Wanholes Utility Vault (Oldcastle), Jensen, Brooks Utility Vault (Oldcastle), Jensen, Brooks w/ Spring Loaded LID INWESCO products 16 MH/PB Hardware 17 Conduits (Schedule 40 or Type C) 18 Detectable Warning Tape Carlon, Wiremold, Panduit 219 Pull, Rope 1700 lb tensile strength Carlon 210 Bonding ribbon (In vaults) INWESCO Cat 12A55 211 Bonding ribbon clamps (In vaults) INWESCO Cat 12A56 212 Fargo Clamp INWESCO Cat 12A57 213 Ground Rod 214 Ground Inserts (Cast Bronze) INWESCO Cat 12H69 215 Manhole Ladders Alhambra Foundry, OPW manhole Alhambra Foundry - Model A-3382 w/ A3383 Support bar 217 T 1 00 COMM EQUIP. ROOM FITTINGS 218 Equipment Racks APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	209	Hangers & Cable Ties	Chatsworth Products, Cooper B-Line, Caddy, Mono
212 Cable Tray 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 214 Manholes 215 Pull boxes 216 MH/PB Hardware 217 Conduits (Schedule 40 or Type C) 218 Detectable Warning Tape 219 Pull, Rope 1700 lb tensile strength 220 Bonding ribbon clamps (In vaults) 221 Fargo Clamp 222 Fargo Clamp 223 Ground Rod 224 Ground Inserts (Cast Bronze) 225 Manhole Lids 226 Manhole Lids 227 A 11 00 COMM EQUIP. ROOM FITTINGS 227 Equipment Racks 248 (WORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 249 (WORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 249 (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 249 (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 240 (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 240 (Manhole Ladkes) 240 (Carlon) 241 (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 245 (APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	210	Metal Outlet Boxes - Double Gang, Extra Deep	Appleton, Raco, Steel City
212 Cable Tray 24" (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 214 Manholes 215 Pull boxes 216 MH/PB Hardware 217 Conduits (Schedule 40 or Type C) 218 Detectable Warning Tape 219 Pull, Rope 1700 lb tensile strength 220 Bonding ribbon clamps (In vaults) 221 Fargo Clamp 222 Fargo Clamp 223 Ground Rod 224 Ground Inserts (Cast Bronze) 225 Manhole Lids 226 Manhole Lids 227 A 11 00 COMM EQUIP. ROOM FITTINGS 227 Equipment Racks 248 (WORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 249 (WORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 249 (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 249 (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 240 (MORE IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 240 (Manhole Ladkes) 240 (Carlon) 241 (More IF REQUIRED) CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 245 (APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	0.1.1		
Square D 213 27 05 43 UG DUCTS & RACEWAY FOR COMM 214 Manholes 215 Pull boxes 216 MH/PB Hardware 217 Conduits (Schedule 40 or Type C) 218 Detectable Warning Tape 219 Pull, Rope 1700 lb tensile strength 220 Bonding ribbon (In vaults) 221 Bonding ribbon clamps (In vaults) 222 Fargo Clamp 223 Ground Rod 224 Ground Inserts (Cast Bronze) 225 Manhole Lids 226 Manhole Lids 227 11 00 COMM EQUIP. ROOM FITTINGS 228 Equipment Racks 229 Equipment Racks 240 Utility Vault (Oldcastle), Jensen, Brooks 241 (Oldcastle), Jensen, Brooks 242 (Oldcastle), Jensen, Brooks 243 (Oldcastle), Jensen, Brooks 244 (Oldcastle), Jensen, Brooks 245 (Oldcastle), Jensen, Brooks 246 (Oldcastle), Jensen, Brooks 247 (Oldcastle), Jensen, Brooks 248 (Oldcastle), Jensen, Brooks 248 (Oldcastle), Jensen, Brooks 249 (Oldcastle), Jensen, Brooks 240 (Oldcastle), J			
213 27 05 43 UG DUCTS & RACEWAY FOR COMM 214 Manholes 215 Pull boxes 216 MH/PB Hardware 217 Conduits (Schedule 40 or Type C) 218 Detectable Warning Tape 219 Pull, Rope 1700 lb tensile strength 220 Bonding ribbon (In vaults) 221 Bonding ribbon clamps (In vaults) 222 Fargo Clamp 223 Ground Rod 224 Ground Inserts (Cast Bronze) 225 Manhole Lids 226 Manhole Ladders 227 27 11 00 COMM EQUIP. ROOM FITTINGS 228 Ladder Racks 248 CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	212	Cable Tray	
Utility Vault (Oldcastle), Jensen, Brooks	213	27 05 43 LIG DUCTS & PACEWAY FOR COMM	Oquale D
Dull boxes Utility Vault (Oldcastle), Jensen, Brooks w/ Spring Loaded LID	210	27 03 43 00 DOCTO & RACEWATT OR COMM	
216 MH/PB Hardware 217 Conduits (Schedule 40 or Type C) 218 Detectable Warning Tape 219 Pull, Rope 1700 lb tensile strength 220 Bonding ribbon (In vaults) 221 Bonding ribbon clamps (In vaults) 222 Fargo Clamp 223 Ground Rod 224 Ground Inserts (Cast Bronze) 225 Manhole Lids 226 Manhole Ladders 227 11 00 COMM EQUIP. ROOM FITTINGS 228 Equipment Racks 229 Equipment Racks 229 Equipment Racks 220 INWESCO Dat 12A57 230 Ground Rod 24 Ground Inserts (Cast Bronze) 25 Manhole Ladders 26 Manhole Ladders 27 11 00 COMM EQUIP. ROOM FITTINGS 27 APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	214	Manholes	Utility Vault (Oldcastle), Jensen, Brooks
217 Conduits (Schedule 40 or Type C) 218 Detectable Warning Tape 219 Pull, Rope 1700 lb tensile strength 220 Bonding ribbon (In vaults) 221 Bonding ribbon clamps (In vaults) 222 Fargo Clamp 223 Ground Rod 224 Ground Inserts (Cast Bronze) 225 Manhole Lids 226 Manhole Ladders 227 11 00 COMM EQUIP. ROOM FITTINGS 228 Equipment Racks 229 Equipment Racks 230 Carlon, Wiremold, Panduit 241 CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 240 APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter	215	Pull boxes	Utility Vault (Oldcastle), Jensen, Brooks w/ Spring Loaded LID
218 Detectable Warning Tape 219 Pull, Rope 1700 lb tensile strength 220 Bonding ribbon (In vaults) 221 Bonding ribbon clamps (In vaults) 222 Fargo Clamp 223 Ground Rod 224 Ground Inserts (Cast Bronze) 225 Manhole Lids 226 Manhole Ladders 227 And COMM EQUIP. ROOM FITTINGS 228 Ladder Racks 229 Equipment Racks 229 Equipment Racks 220 Carlon 221 Carlon 222 Carlon 223 INWESCO Cat 12A55 224 INWESCO Cat 12A57 225 Manhole Lids 226 Manhole Lids 227 Allon COMM EQUIP. ROOM FITTINGS 228 Ladder Racks 229 Equipment Racks 24° CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 229 APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	216	MH/PB Hardware	INWESCO products
219 Pull, Rope 1700 lb tensile strength 220 Bonding ribbon (In vaults) 221 Bonding ribbon clamps (In vaults) 222 Fargo Clamp 223 Ground Rod 224 Ground Inserts (Cast Bronze) 225 Manhole Lids 226 Manhole Ladders 227 27 11 00 COMM EQUIP. ROOM FITTINGS 228 Ladder Racks 229 Equipment Racks 220 Equipment Racks 221 Carlon 222 Fargo Clamp 223 INWESCO Cat 12A57 224 INWESCO Cat 12A60 225 Manhole Lids 226 Alhambra Foundry, OPW manhole 227 Alhambra Foundry - Model A-3382 w/ A3383 Support bar 228 Ladder Racks 229 Equipment Racks 220 APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	217	Conduits (Schedule 40 or Type C)	Carlon, Wiremold, Panduit
Bonding ribbon (In vaults) INWESCO Cat 12A55 INWESCO Cat 12A56 INWESCO Cat 12A56 INWESCO Cat 12A57 INWESCO Cat 12A60 INWESCO Cat 12A60 INWESCO Cat 12A60 INWESCO Cat 12H69 INWESCO Cat 12H69 INWESCO Cat 12H69 Alhambra Foundry, OPW manhole Alhambra Foundry - Model A-3382 w/ A3383 Support bar INWESCO Cat 12H69 Alhambra Foundry - Model A-3382 w/ A3383 Support bar INWESCO Cat 12H69 Alhambra Foundry - Model A-3382 w/ A3383 Support bar INWESCO Cat 12H69 Alhambra Foundry - Model A-3382 w/ A3383 Support bar INWESCO Cat 12A57 INWESCO Cat 12A57 INWESCO Cat 12A56 INWESCO Cat 12A57 INWESCO Cat 12A56 INWESCO Cat 12A57 INWESCO Cat 12A56 INWESCO Cat 12A57 INWE	218	Detectable Warning Tape	Carlon
Bonding ribbon clamps (In vaults) INWESCO Cat 12A56	219	Pull, Rope 1700 lb tensile strength	Carlon
Fargo Clamp INWESCO Cat 12A57 INWESCO Cat 12A60 INWESCO Cat 12A60 INWESCO Cat 12H69 INWESCO Cat 12H69 INWESCO Cat 12H69 Alhambra Foundry, OPW manhole Alhambra Foundry - Model A-3382 w/ A3383 Support bar 227 27 11 00 COMM EQUIP. ROOM FITTINGS 228 Ladder Racks 24" CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	220	Bonding ribbon (In vaults)	INWESCO Cat 12A55
223 Ground Rod 224 Ground Inserts (Cast Bronze) 225 Manhole Lids 226 Manhole Ladders 227 27 11 00 COMM EQUIP. ROOM FITTINGS 228 Ladder Racks 229 Equipment Racks 220 APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	221	Bonding ribbon clamps (In vaults)	INWESCO Cat 12A56
224 Ground Inserts (Cast Bronze) INWESCO Cat 12H69 Alhambra Foundry, <i>OPW manhole</i> Alhambra Foundry - Model A-3382 w/ A3383 Support bar 227 27 11 00 COMM EQUIP. ROOM FITTINGS 228 Ladder Racks 24" CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV		•	INWESCO Cat 12A57
Alhambra Foundry, <i>OPW manhole</i> Alhambra Foundry - Model A-3382 w/ A3383 Support bar Alhambra Foundry - Model A-3382 w/ A3383 Support bar 227 27 11 00 COMM EQUIP. ROOM FITTINGS 228 Ladder Racks 24" CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	223	Ground Rod	
Alhambra Foundry - Model A-3382 w/ A3383 Support bar 227 27 11 00 COMM EQUIP. ROOM FITTINGS 228 Ladder Racks 24" CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 229 Equipment Racks APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV		,	
22727 11 00 COMM EQUIP. ROOM FITTINGS228Ladder Racks24" CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D229Equipment RacksAPC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter			•
228 Ladder Racks 24" CPI, Cooper B-Line, Panduit, Leviton, Homaco, Square D 229 Equipment Racks APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV	226	Manhole Ladders	Alhambra Foundry - Model A-3382 w/ A3383 Support bar
229 Equipment Racks APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter SV			
SV	228	Ladder Racks	
	229	Equipment Racks	APC NetShelter, SIEMON VERSAPOD, V600, V800, Netshelter SX, Netshelter
230 Wall-Mounted Cabinets Cooper B-Line DAMAC			
	230	Wall-Mounted Cabinets	Cooper B-Line DAMAC

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	STANDARD	CAMPUS ALTERNATIVES
231	Cable Managers	VERTICAL MANAGERS: CPI 10" or 12" Evolution series; HORIZONTAL
	, and the second	MANAGERS: SIEMON WM - 145-5, Chatsworth, Ortronics and APC
232	Fiber Optic Terminals (FOT's)-Housing	SIEMON RIC-3-72-01, SIEMON RIC 3-48-01, SIEMON RIC 3-36-01, LIGHTSTACK LS-1V-01, LS-4V-01
233	Fiber Terminal Adapters and Connectors	SIEMON RIC-FLC6-01, LIGHTSTACK LS-12-LC-5V-01, LIGHTSTACK LS-12- LC-SM-01
234	Plywood	Arch. Wood Protection, Chemco, National Plywood Industries
235	Fire Retardant Paint	Flamort Co., Inc., FireNoMore International,
236	Fire Retardant	International Fire Retardants, Inc. or EQUAL
237	Patch panels	PATCH PANELS: SIEMON ZXAS-PNL (F)-V48K, TERA Z6AS-PNL (A)-U48K, ZMAX ZSPNLAV48E
238	Cable Tags & Splice Labels	CABLE TAGS AND SPLICE LABELS: 3M, Panduit, Tech Products
239	Protector Panels	Circa, Emerson, CommScope, Cook
240	27 13 00 COMM BACKBONE CABLING	
241	Fiber Tube Cable (OSP and Riser)	SUMITOMO FUTUREFLEX: SM AND MM (MM ABF-50U OM4 or equal)
242	Fiber Cable - OSP and Riser	Sumitomo Electric FutureFLEX ABF-50U OM4 or equal
243	Copper OSP Cable	Siemon, General Cable, Superior Essex, CommScope
244	Splice Cases - Outside	Preformed, 3M, PSI
245	Splice Cases - Inside	Reliable, 3M
246	Splice Bay & Relay Labels	3M, 5000 Scotchlite Decal System
	ABF Tube Clips	Sumitomo Electric FutureFLEX
	27 15 00 COMM HORIZONTAL CABLING	
249	Station Cabling	MINIMUM 25 YEAR WARRANTY, CAT6A, shielded F/UTP (Siemon ZMAX 6A F/UTP), SIEMON 9T7R4E1006R1, TERA E109T7P4E1006R1, ZMAX 6AF-UTP-9A6P4A506RIA
250	Jacks	SIEMON Z6ASK01, TERA T7F011, ZMAX Z6ASK03
251	Faceplates	SIEMON, <i>TERA, ZMAX</i>
252	Emergency Phone (Blue light)	Talk-A-Phone WEBS ETP-WM & WEBS ETP-MT/R bases w/ VOIP 500D NOTE: Required - parking structures: 4-min. per floor, surface parking lots at every 50 ft radius (250 LF max from source)
	Elevator Phone	Talk-A-Phone VOIP 500D or as current future upgrade
254	CLASSROOM VOIP INTERCOM	Cisco Singlewire Informacast for Mass Notification, Valcom, Algo, Cyberdata, 2N
	27 40 00 AUDIO VISUAL	
256	CONTROL SYSTEM	UTELOGY control on OFOI touchscreen monitor, Extron 1808 AV presentation switch for 4K images or Extron IN1608xi AV presentation switch for 1920x1200 projectors, 70V amp and ceiling speakers, ALS 72Mhz (infrared version for
		adjacent large lecture rooms), Cisco SG250 8 port switch from AV rack for connection to Utelogy server and connection to Utelogy controlled devices in room, Fusion 8X2 power conditioner, gooseneck microphone, Bluray, etc.
	PROJECTOR	EPSON, PANASONIC, Minimum WUXGA (1920 x 1200) resolution, Laser/LED >=6000 Lumens, HDBase T Connectivity. Lens w/ image shift, 3-chip color processing (3xLCD or 3xDLP, no single-chip models)
	PROJECTOR SCREEN	DA-LITE, ELITE SRM, Draper - use 16:10 with image starting a minimum of AFF 48" (113" diagonal 16:10 best matches traditional screen line-of-sight/size balance for most classrooms).
259	LECTERN	SPECTRUM FREEDOM XRS, FORBES-AV,VREM AV, Spectrum, Masters lectern

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	STANDARD	CAMPUS ALTERNATIVES
260	DOCUMENT CAMERA	EPSON, WOLFVISION
	MICROPHONE	SHURE
	NETWORK SWITCH	Cisco Catalyst 9300 IP Based-POE+, upgradable to latest technical advances;
	TILL THO THE OTHER	Cisco SG250-08 (for AV racks.)
263	ANNOTATION DEVICE	SMART TECHNOLOGIES
	INTERACTIVE DISPLAY	Smart Technologies, Epson, Panasonic
	CLASSROOM LIGHTING CONTROL	
	of took our field with the	Smart system, preferably in the IoT platform. The controls will have to
		communicate and work with HVAC controls through BACnet. Enlighted,
		Blue Ridge Tech
266	SPEAKERS	JBL, EXTRON (70W mono for most classrooms)
267	PC COMPUTERS	HP ELITE 800 SERIES (16GB with BluRay for instructor stations)
268	LECTURE CAPTURE	Ensemble
269	ELECTRONIC QUEUEING SYSTEM	Q-Matic, Q-Less
270	DIV. 28: ELECTRONIC SAFETY & SECURITY	
271	28 10 00 ELECTRONIC ACCESS CONTROL	
272		LUD OL L LOCONIMETERAMONT COMMUNICATION
		HID Global 920NMPTEKMA007, 921NMPTEKMA008
		(use OSDP communication only) NOTE: Required at all building entries, classroom doors (if more than one door, then at least one required), all building
	CARD READER	utility rooms (electrical, mechanical, BDF/IDF, Janitorial closets), staff/faculty
	o, ind he lock	office suite entrances. Refer to latest District Standards. Readers shall be
		connected via OSDP using Belden 658GMS composite cable.
273		
	CREDENTIALS	HID Global 5006PGGAN with LACCD Corporate 1000 Format: H800003
	ACCESS CONTROL CABLE	Belden 658GMS
	ACCESS CONTROL PANEL	Lenel LNL-X4420
276	POWER SUPPLY	LifeSafety Power FPO150/250-3D8P2M8NL4E8M2/P16 with BDM or
		FPO250/250-3D8P5M8PNLXE12M
	DOOR POSITION SENSOR	Schlage 7764
	LOCKDOWN BUTTON	STI SS2026LD-EN with 6/18 cable to Access Control Panel
	ACCESS CONTROL SYSTEM	Lenel OnGuard Enterprise
	28 20 00 ELECTRONIC SURVEILLANCE	Little Definition OMEON Division
281	Security Cameras	High Definition 8 MEGA Pixel Axis P-Series + Q-Series w/zipstream
282	ANALOG VIDEO to IP ENCODER	AXIS: Q74 Series
	System Server	BCD Video System for Storage and
200		Milestone XProtect Corporate for VMS
284	Recording System	BCD Video System for Storage and
		Milestone XProtect Corporate for VMS
285	WIRELESS ACCESS POINTS	·
286	Indoor Access Points	Cisco Aironet 4200 Series ; Cisco Aironet 1800? E Series W/NEMA 4
		ENCLOSURE + Ext antennas
287	Outdoor Access Points	Cisco Aironet 3802E Series W/NEMA 4 ENCLOSURE + Ext antennas
000		
	FIRE ALARM SYSTEM	In the Country of the Prince of
	GENERAL	Edwards (EST 4) with Mass Notification
	FIRE ALARM PULL STATION	EST CAT 45 KEY
	SPEAKER/STROLL AMBER ALERT	Edwards (EST 4) with Mass Notification
	DIV. 32: EXTERIOR IMPROVEMENTS	
	IRRIGATION SYSTEMS	T. THO 1015 O. I. I. I. I. THO 101 O. I.
294	IRRIGATION CONTROLLLER	Toro TMC-424E Series, Irritol TMC 424 Series

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	STANDARD	CAMPUS ALTERNATIVES
295	CONTROLLER REMOTE SITE MANAGEMENT	Toro TriComm Site Management
296	CONTROLLER HAND-HELD REMOTE CONTROL	Toro TMR-1
297	CONTROLLER ENCLOSURE	V.I.T. Strong Box SB-xxSS with QP, CSA, RGVRSS Options
298	RAIN SENSOR	Toro TRS
299	CONTROL WIRE - COMMON	Paige P7001D 12 AWG White
300	CONTROL WIRE - HOT	Paige P7001D 14 AWG Colored
301	WATERPROOF WIRE CONNECTOR	Spears DS-500 Dri-Splice
302	GROUNDING ROD	Paige 182007 with Paige 1820037P Connection
303	DIELECTRIC CONNECTION	Approved by Electical Engineer
304	BOOSTER PUMP	Barrett Irriboost with Variable Speed Drive and SS Enclosure
305	BASKET STRAINER	Yardney SBx-T Series, Purple
306	BASKET STRAINER ENCLOSURE	V.I.T. Strong Box SBBC-xxSS with QP Option
307	PRESSURE REGULATOR	Wilkins 500 Series
308	MASTER VALVE	Toro 220 Brass or Toro P-220S Platic, or Rainbird P22o Brass series with
		Pressure regulator
	FLOW SENSOR	Toro TFS Series
	FERTILIZER INJECTOR	EZ-FLO EZ Series
	GATE VALVE (2" and SMALLER)	Nibco T-113 Series
	GATE VALVE (2 1/2" and LARGER)	Nibco F-619-SON Series
	BALL VALVE (2" and SMALLER)	Nibco T-585-70 Series
	AIR RELEASE VALVE	Cla-Val #33-A Series
	QUICK COUPLING VALVE	Rain Bird #44-NP or TORO #44 NP Series
316	ELECTRIC CONTROL VALVE	Toro 220 Brass, Toro P-220S PlaticM, or Rainbird P-220 brass series
	DRIP ZONE VALVE KIT	Toro TPV Series
	VALVE BOX	NDS Pro Plus Series (green plastic with purple bolt-down cover)
	MAINLINE PIPING (6" and LARGER)	Pacific Plastics or equal CL200 PVC Gasketed - Purple
	MAINLINE PIPING (2" - 4")	Pacific Plastics or equal CL315 Solvent-Weld PVC - Purple
321	MAINLINE PIPING (1 1/2" and SMALLER)	Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Purple or Sch 80 PVC
000	LATERIA LINE DIDINO	D : (5 D) (5 D) (6 D) (0
322	LATERL LINE PIPING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC – Purple, or SCH 80 PVC
323	PIPE / WIRE SLEEVING	Pacific Plastics or equal SCH 40 Solvent-Weld PVC
	PIPE FITTINGS (MAINLINE)	Spears or equal SCH 80 PVC
	PIPE FITTINGS (MAINEINE)	Spears or equal SCH 40 PVC
	ARTIFICIAL TURF COOLING SYSTEM HEADS	Toro TS90TP Series
525	THE TOTAL COOLING OF OTHER MICHAEL	15.5 155511 551155
327	LARGE TURF ROTOR HEADS	Toro TR70P Series
	MEDIUM ROTOR HEADS	Toro T5 Series
	SMALL ROTOR HEADS	Toro 570Z-PRX-COM-E with Tor Precision Rotating Nozzle
	FIXED SPRAY HEADS	Toro 570Z-PRX-COM-E with Toro Precision Spray Nozzle
	FLOOD BUBBLER	Toro 570Z-PRX-COM-E with Toro FB-PC Nozzle
	TREE ROOT WATERING SYSTEM	Rain Bird RWS Series
	DRIP LINE SYSTEMS	Toro DL2000 RGP-xxx-xx-E Series
	DRIP SYSTEM FITTINGS / ACCESSORIES	Toro - Miscellaneous
	LANDSCAPE DESIGN	
	LARGE TREES	Ceadrus deodora, Deodar cedar
	LARGE TREES	Platanus racemosa, California sycamore
	LARGE TREES	Quercus agrifolia, Coast live oak
	MEDIUM TREES PRIMARILY FOR SHADE	Cinnamonium camphora, Camphor tree
	MEDIUM TREES PRIMARILY FOR SHADE	Jacaranda mimosifolia, Jacaranda

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	STANDARD	CAMPUS ALTERNATIVES
341	MEDIUM TREES PRIMARILY FOR SHADE	Liriodendron arnoldii, Tulip tree
	MEDIUM TREES PRIMARILY FOR SHADE	Platanus acerifolia 'Yarwoodii', Yarwood plane tree
	MEDIUM TREES PRIMARILY FOR SHADE	Podocarpus gracilior, Fern pine
	MEDIUM TREES PRIMARILY FOR SHADE	Quercus ilex, Holly oak
	MEDIUM TREES PRIMARILY FOR SHADE	Ulmus parvifolia 'Drake', Drake Chinese elm
	SMALL TREES FOR FLOWERS & FRAGRANCE	Agonis flexusa, Pepermint tree
347	SMALL TREES FOR FLOWERS & FRAGRANCE	Arbutus 'Marina', Marina strawberry tree
348	SMALL TREES FOR FLOWERS & FRAGRANCE	Bauhinia 'Blakeana' Hong Kong orchid tree
240	CMALL TREES FOR ELOWERS & FRACRANCE	Callistanan vinsinalia Waaning battla burah
349	SMALL TREES FOR FLOWERS & FRAGRANCE	Callistemon viminalis, Weeping bottle brush
350	SMALL TREES FOR FLOWERS & FRAGRANCE	Cassia leptophylla, Gold medallion tree
	SIMILE TREES FOR FEWERS ATTORISHING	Oddola loptophylia, Odla modaliion aloo
351	SMALL TREES FOR FLOWERS & FRAGRANCE	Eucalyptus erythricorys, Red cap gum
352	SMALL TREES FOR FLOWERS & FRAGRANCE	Eucalyptus torquata, Coral gum
353	SMALL TREES FOR FLOWERS & FRAGRANCE	Lagerstromia indica, Crape myrtle
254	CMALL TREES FOR ELOWERS & ERACRANOS	Lauren nahalia Curaat hau
354	SMALL TREES FOR FLOWERS & FRAGRANCE	Laurus nobolis, Sweet bay
355	SMALL TREES FOR FLOWERS & FRAGRANCE	Lyonothamus asplenifolius, Catalina ironwood
		Lyonounamae aspioninalae, salaima montrosa
356	SMALL TREES FOR FLOWERS & FRAGRANCE	Magnolia "Little gem', Little gem magnolia
357	SMALL TREES FOR FLOWERS & FRAGRANCE	Pistacia chinensis, Chinese pistace
358	SMALL TREES FOR FLOWERS & FRAGRANCE	Tabebuia Ipe, Pink trumpet tree
250	PALMS	Brahea armata, Mexican blue palm
	PALMS	Chamaerops humilis, Meditteranean fan palm
	PALMS	Cycas revoluta, Sago palm
	PALMS	Trachycarpus fortunei, Winmill palm
	PALMS	Washingtonia filifera, California fan palm
	PALMS	Washingtonia robusta, Mexican fan palm
	SHRUBS INACTIVE AREAS	Achillea sp., Yarrow
	SHRUBS INACTIVE AREAS	Arctostaphylos 'Sunset', Sunset manzanita
	SHRUBS INACTIVE AREAS	Berberis 'Golden aboundance' Oregon grape
	SHRUBS INACTIVE AREAS	Carpenteria Calif., Bush anemone
	SHRUBS INACTIVE AREAS	Fremontedendron 'California gold', California fremontia
	SHRUBS INACTIVE AREAS	Garrya eliptica, Coast silk tassle
	SHRUBS INACTIVE AREAS	Heteromeles arbutifolia, Toyon
	SHRUBS INACTIVE AREAS	Heuchera sp., Alum root
	SHRUBS INACTIVE AREAS	Penstemon 'Margarita BOP', Penstemon
	SHRUBS INACTIVE AREAS	Rhamnus calif. 'San Bruno's mound', Coffeeberry
	SHRUBS INACTIVE AREAS	Rhus integrifolia, Lemonade berry
	SHRUBS INACTIVE AREAS	Ribes sanguineum, Pink flowering currant
	SHRUBS INACTIVE AREAS	Ribes viburnifolium, Catalina evergreen currant
	SHRUBS INACTIVE AREAS	Romneya coulteri, Matilija poppy
379	SHRUBS IN IRRIGATED AREAS	Agave attenuatta, Fox tail agave
380	SHRUBS IN IRRIGATED AREAS	Anigozanthus sp., Kangoroo paw
381	SHRUBS IN IRRIGATED AREAS	Baccharis pilularis 'Pigeon point', Coyote bush

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	STANDARD	CAMPUS ALTERNATIVES
382	SHRUBS IN IRRIGATED AREAS	Callistemon 'Little John' Little John bottlebrush
383	SHRUBS IN IRRIGATED AREAS	Cistus sp., Rockrose
384	SHRUBS IN IRRIGATED AREAS	Coelonema pulchrum, Pink breath of heaven
385	SHRUBS IN IRRIGATED AREAS	Cotoneaster sp., Cotoneaster
386	SHRUBS IN IRRIGATED AREAS	Elaeagnus pungens, Silverberry
387	SHRUBS IN IRRIGATED AREAS	Hemerocallis sp., Daylily
388	SHRUBS IN IRRIGATED AREAS	Juniperus sp., Juniper
389	SHRUBS IN IRRIGATED AREAS	Lantana sp., Lantana
390	SHRUBS IN IRRIGATED AREAS	Leptospermum sp., Australian tea tree
391	SHRUBS IN IRRIGATED AREAS	Ligustrum texanum, Texas privet
392	SHRUBS IN IRRIGATED AREAS	Myrtus communis, Myrtle
393	SHRUBS IN IRRIGATED AREAS	Osmanthus fragrans, Sweet olive
394	SHRUBS IN IRRIGATED AREAS	Phormium tenax, Flax
395	SHRUBS IN IRRIGATED AREAS	Pittosporum tobira sp., Tobira
396	SHRUBS IN IRRIGATED AREAS	Raphiolepis indica sp., Indian hawthorne
397	SHRUBS IN IRRIGATED AREAS	Rosmarinus officinalis, Rosemary
398	SHRUBS IN IRRIGATED AREAS	Viburnum tinus sp., Laurustinus
399	SHRUBS IN IRRIGATED AREAS	Westringia fruticosa, Coast rosemary

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