

**Los Angeles Harbor College Campus Standards**

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

**PLEASE READ & FOLLOW THE DIRECTIONS PROVIDED BELOW**

"The Campus Standards Matrix is to be used as a guide . LA Harbor College 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 **Bill Englert** and a formal written approval needs to be received from the Director, **Bill Englert** Campus Maintenance & Operations (M&O) or IT Departments.

This is a living document and updates regularly ; therefore , one should check with the M&O Department for the most updated version before proceeding

These design standards are not to be deviated from for the purpose of value engineering unless formally approved by M&O or IT

| STANDARD |   | CAMPUS ALTERNATIVES   |
|----------|---|---|
| 1        | <b>DIV. 06: WOOD, PLASTICS AND COMPOSITE</b>      |   |
| 2        | <b>ARCHITECTURAL CABINETS</b>                     |   |
| 3        | PLASTIC LAMINATE                                  | NEVAMAR, FORMICA, WILSONART, OR EQUAL   |
| 4        | CABINET DRAWER GLIDES                             | ACCURIDE 3832   |
| 5        | CABINET HINGES                                    | ROCKFORD PROCESS CONTROL (RPC) #851   |
| 6        | CABINET LOCKS                                     | BEST 5L SERIES DEADBOLTS AND STRIKES  |
| 7        | CABINET MAGNETIC CATCHES                          | EPCO #591   |
| 8        | CABINET PULLS                                     | TRIMCO 562-4  |
| 9        | CABINET SHELF STANDARDS                           | KNAPE & VOGT (KV) 255   |
| 10       | <b>DIV. 07: THERMAL &amp; MOISTURE PROTECTION</b> |   |
| 11       | <b>ROOFING</b>                                    |   |
| 12       | GENERAL   | GAF, Johns Manville or Equal  |
| 13       |   | Modified Bitumen 30-yr Garland, 4-yr ply. Build-up roof multi-ply   |
| 14       |   | Sarnafli, no single ply. Build-up roof multi-ply (District Standards).  |
| 15       | <b>FIREPROOFING</b>                               |   |
| 16       | GENERAL   | Monokote , CAFCO  |
| 17       | BITUMINOUS DAMPPROOFING                           | WR MEADOWS, HENRY, CARLISLE COATINGS  |
| 18       | SELF-ADHERING SHEET WATERPROOFING                 | WR GRACE, WR MEADOWS, CARLISLE COATINGS   |
| 19       | <b>DIV. 08: OPENINGS</b>                          |   |
| 20       | <b>HARDWARE</b>                                   |   |
| 21       | KEYS OF CYLINDER                                  | BEST I/C CORE, 7-PIN  |
|          | INTER CHANGEABLE SYLINDERS                        | BEST 1C7  |
| 22       | LEVER LOCKSETS                                    | Schlage "ND' RHODES, L9000-06-626 finish is satin chrome  |
| 23       | LOCKSET   | Schlage L9000 Series, 06A, 626 Finish. Use Schlage 180 Degree Indicator on Classrooms and Single Use restrooms. |

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|----------|--|---|
| 24       | <b>CABINET LOCKSETS</b>                | Olympus, Haworth, HON   |
| 25       | <b>Power Supplies</b>                  | Von Duprin PS902/904/906/914 as required. Use Key Lock Option,  |
| 26       | <b>Mullions</b>                        | Von Duorin KR series with M154 storage bracket kits. Fire Rated as required   |
| 27       | <b>Surface Closers</b>                 | Exterior LCN 4040XP with EDA Arms at out swinging doors.<br>Interior: LCN 4040XP  |
| 28       | <b>Auto Door Operators</b>             | LCN Senior Swing with 3-position ON/OFF/HOLD-OPEN   |
| 29       | <b>Door Stops</b>                      | Interior: Ives FS436/438<br>Exterior: Ives FS40 Series<br>Wall Stops: Ives WS401  |
| 30       | <b>Floor Closer</b>                    | New: Do not Specifv. Existina: remove as required & replace with continuous hinae and surface mounted closer.   |
| 31       | <b>Flush Bolts</b>                     | Ives FB30-FB40-FB50-FB60 Series as required.  |
| 32       | <b>HINGES</b>                          | Stanley FBB179-4-1/2 X 4-1/2  |
| 33       |  | HAGER, IVES   |
| 34       |  | MARKAR 300 SERIES   |
| 35       |  | CONTINUOUS STAINLESS STEEL  |
| 36       |  | BUTTS-IVES 3CB1HW SERIES,Ives 3Cb1 at low use interior doors.   |
| 37       | <b>Padlocks</b>                        | Schlage KS series for SFIC Schlaae Krvotonite KS Series   |
| 38       | <b>Overhead Stools</b>                 | Glynn-Johnson 90 series and 100 series.   |
| 39       | <b>Hold Open Devices</b>               | LCN SEM Series  |
| 40       | <b>Door Plates</b>                     | Kick Plates: Ives 8400 Series, 10" H x 2" less than door width, (1"LOW at non-mullion pairs)  |
|          |  | Push/Pull Plates: Ives 8200 and 8303-8 Series   |
|          |  | Anti-Vandal Plates: Ives VR900 SerieS   |
| 41       | <b>Thresholds</b>                      | National Guard or Pemko   |
| 42       | <b>Door Seals</b>                      | National Guard or Pemko   |
| 43       | <b>Hollow Metal Doors &amp; Frames</b> | Exterior: Steelcraft or acceptable alternate<br>Interior: Steelcraft.or acceptable alternate  |
| 44       | <b>EXIT DEVICES</b>                    | VON DUPRIN AX 99 and AX 33A Series.<br>Electrified Devices: Von Duprin QEL type.<br>Heavy Duty Keyswitch (to accept SFIC key cylinder) on inside of rooms selected by Owner for local lockdown and Red/Green status monitoring. |

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|---|---|
| CARD READER                                   | Locks: Schlage AD300 x SFIC. Verify locations with owner.<br>Panics: Von Duprin 99 Series with AD300-993 Trim x SFIC. Verify locations with owner.<br>Integrated Electronic Lock, Proximity Reader, Door Contact and Request to Exit/Enter Sensors Red/Green LED to Indicate Electric Lock/Unlock Status. Status Monitor located on inside of lock displays central lockdown status with Red LED. 120VAC – 12/24VDC Power Supply.<br>Panel Interface Board as required (PIB300-TD2 x RLBD)<br>Heavy Duty Keyswitch (to accept SFIC key cylinder) on inside of rooms selected by Owner for local lockdown and Red/Green status monitoring. |
| 45  |   |
| KEY SYSTEMS - FIRE ALARM PANEL                | CAT 45  |
| 46  |   |
| AUTO DOOR CLOSER                              | LCN BY RBA,   |
| 47  |   |
| CONTINUOUS HINGE                              | STANLEY 651 X SHIM X EPT PREP   |
| 48  |   |
| MULLION SEAL                                  | Von Duprin KR series with M154 storage bracket kits. Fire Rated as required   |
| 49  |   |
| OVERHEAD STOPS                                | Glynn-Johnson 90 series and 100 series. Use only where floor or wall stops are inadvisable. When used, use heavy weight hinges or continuous hinges   |
| 50  |   |
| POWER SUPPLY                                  | Von Duprin PS902/904/906/914 as required. Use Key Lock Option, verify combination with Locksmith.   |
| 51  |   |
| REMOVABLE MULLION                             | Von Duprin KR series with M154 storage bracket kits. Fire Rated as required   |
| 52  |   |
| THRESHOLD                                     | PEMKO   |
| 53  |   |
| <b>DOORS</b>                                  |   |
| 54  |   |
| WOOD DOOR                                     | GRAHAM, HALEY BROTHERS, EGGERS INDUSTRIES   |
| 55  |   |
| SLIDING METAL FIRE DOOR                       | SMOKE GUARD   |
| 56  |   |
| AUTOMATIC SLIDING ALUMINUM FRAMED GLASS DOORS | STANLEY   |
| 57  |   |
| ACCESS DOORS                                  | BAUCO, KARP, JL INDUSTRIES  |
| 58  |   |
| OVERHEAD COILING GRILLES                      | COOKSON COMPANY, PACIFIC ROLLING DOORS, OVERHEAD DOOR   |
| 59  |   |
| ALUMINUM-FRAMED ENTRANCES & STORE FRONT       | KAWNEER COMPANY, CONTINENTAL  |
| 60  |   |
| GLASS ENTRANCES & STOREFRONT                  | ARCADIA, VISTAWALL  |
| 61  |   |
| <b>RESTROOM ENTRY DOORS</b>                   |   |
| 62  |   |
| HOLLOW METAL DOORS, MINIMUM REQUIREMENTS      | STEELCRAFT  |
| 63  |   |
| HOLLOW METAL FRAMES, MINIMUM REQUIREMENTS     | 14 GAUGE COLD ROLLED STEEL BY STEELCRAFT  |
| 64  |   |
| MARBLE THRESHOLDS AT TOILET ROOM ENTRANCES    | GROUP "A" MARBLE AS CLASSIFIED BY THE MARBLE INSTITUTE OF AMERICA   |
| 65  |   |
| METAL DOOR LOUVERS (AT NON-RATED OPENINGS)    | ANEMOSTAT PLSL LOUVER   |
| 66  |   |

| STANDARD  | CAMPUS ALTERNATIVES   |
|---|---|
| 67 <b>WINDOWS</b>                                       |   |
| 68 <b>ALUMINUM WINDOWS</b>                              | ANDERSEN  |
| 69 <b>DECORATIVE FILMS</b>                              | 3M, LLUMAR/VISTA, METROPOLITAN WEST                                   |
| 70 <b>DIV. 09: FINISHES</b>                             |   |
| 71 <b>FLOOR/ WALL FINISHES</b>                          |   |
| 72 <b>CARPET</b>  | Tandus (District contract in effect, mold and mildew resistant        |
| 73 <b>RESILIENT FLOORING</b>                            | Armstrong, Mannington   |
| 74 <b>CARPET MODULES</b>                                | Tandus 36X36 (District contract in effect) mold resistant             |
| 75 <b>RESILIENT TILES/SHEET FLOORING</b>                | Armstrong, Medintech, KYA Group                                       |
| 76 <b>HARD SURFACE (GYMNASIUM)</b>                      | MONDO, Aacer, Noble House, Teraflex                                   |
| 77 <b>WALL BASE</b>                                     | Johnsonite, Armstrong, Mannington, Roppe, Burke                       |
| 78 <b>RAISED FLOORING SYSTEMS</b>                       | Access Floor Co.  |
| 79 <b>PORCELAIN TILE-CERAMIC</b>                        | Specific to design standard with installation floor to ceiling        |
| 80 <b>WALL COVERINGS</b>                                | Dunn Edwards, Vista Paint   |
| 81 <b>PAINT</b>   | Dunn Edwards , ICI, Dulux, Vista Paint                                |
| 82 <b>HIGH PERFORMANCE COATINGS</b>                     | Dunn Edwards , ICI, Dulux, Scuffmaster BY Master Coating Technologies |
| 83 <b>EPOXY FLOORING-(EXTERIOR)</b>                     | NEOGARD   |
| 84 <b>FLOOR MATS/WALK-OFF MATS</b>                      | TANDUS (DISTRICT CONTRACT IN EFFECT)                                  |
| 85 <b>GRAFFITI RESISTANT COATINGS</b>                   | PERMASHIELD PREMIUM OR GENESIS COATING                                |
| 86 <b>GRAFFITI RESISTANT FILM</b>                       | 3M, JOHNSON WINDOW FILMS  |
| 87 <b>SEAMLESS FLOORING for Sports &amp; Activities</b> | KYA   |
| 88 <b>VCT</b>   | Johnsonite, Armstrong, KYA  |
| 89 <b>RESINOUS FLOORING-EPOXY</b>                       | STONHARD, CROSSFIELD PRODUCTS, TNEMEC                                 |
| 90 <b>FIBERGLASS REINFORCED PLASTIC PANELS</b>          | MARLITE   |
| 91 <b>CERAMIC TILES AND TILING</b>                      |   |
| 92 <b>GENERAL</b>                                       | DALE TILES  |
| 93 <b>MOTAR/GROUT</b>                                   | MAPEI, LATICRETE  |
| 94 <b>TERRAZZO/MARBLE TILES</b>                         | FRITZTILE OR EQUAL  |
| 95 <b>CEMENTITIOUS GROUT (FLOOR TILE)</b>               | LATICRETE® PERMACOLOR™, OR APPROVED EQUAL.                            |
| 96 <b>EPOXY GROUT (WALL TILE)</b>                       | LATICRETE® SPECTRALLOCK® PRO PREMIUM GROUT, OR APPROVED EQUAL.        |
| 97 <b>FLOOR TILE</b>                                    | DAL TILE, OR APPROVED EQUAL.  |

| STANDARD   | CAMPUS ALTERNATIVES  |
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| 98<br>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) |
| 99<br>WALL TILE  | DAL TILE, OR APPROVED EQUAL.   |
| 100<br>WATERPROOF MEMBRANE   | LATICRETE® HYDRO BARRIER™, OR APPROVED EQUAL.  |
| 101<br>EXTERIOR PLASTER  | LA HABRA, HIGHLAND   |
| 102<br>PHOTOVOLTAICS   | PANASONIC, Shot Panels   |
| 103 <b>CEILING SYSTEMS</b>   |  |
| 104<br>ACOUSTICAL TILE   | ARMSTRONG 1729 FIND FISSURED, USG  |
| 105<br>GRID SYSTEM   | Armstrong, USG, Stratford  |
| 106<br>ACOUSTICAL SUSPENSION SYSTEM -<br>acoustic treatment        | ARMSTRONG, USG OR CHICAGO METALLIC CO,   |
| 107<br>SOUND ABSORBING UNITS                                       | AcoustiColor, ARMSTRONG, ROCKFON   |
| 108<br>INTERIOR SUSPENDED LIGHTS                                   | LITHONIA, PRUDENTIAL - LED ONLY  |
| 109<br>WALL & CEILING ACCESS DOORS                                 | SQUARE OR RECTANGULAR FRAMES WITH HINGED LOCKED DOOR   |
| 110 <b>DIV. 10: SPECIALTIES</b>                                    |  |
| 111<br>SOAP DISPENSERS   | BOBRICK B-8226   |
| 112<br>PAPER TOWEL DISPENSERS                                      | BOBRICK MODEL B-262 Classic Series,  |
| 113<br>PAPER TOWEL DISPENSERS (AT<br>STAFF/FACULTY RESTROOMS ONLY) | BOBRICK MODEL B-2860 SURFACE MOUNTED ROLL TOWEL DISPENSER, OR APPROVED EQUAL.  |
| 114<br>TOILET PAPER DISPENSER                                      | JUMBO, BOBRICK MODEL B-4388 RECESSED MULTI ROLL TOILET TISSUE DISPENSER  |
| 115<br>HAND DRYER  | Xlerator, Saniflow (ADA compliant), Dyson Air Blade  |
| 116<br>BATHROOM PARTITIONS   | BOBRICK SIERRASERIES® WATER-AND FIRE-RESISTANT SOLID COLOR REINFORCED COMPOSITE TOILET PARTITIONS AND URINAL SCREENS, ORBOBRICK DURALINE SERIES 1080   |
| 117<br>RESTROOM ACCESSORIES  | BOBRICK, Xlerator  |
| 118<br>SANITARY NAPKIN   | BOBRICK MODEL B-3706C STAINLESS STEEL SEMI-RECESSED NAPKIN/TAMPON DISPENSER  |
| 119<br>SANITARY NAPKIN DISPOSALS                                   | RECESSED SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B 353, OR APPROVED EQUAL / PARTITION-MOUNTED SANITARY NAPKIN DISPOSAL: BOBRICK MODEL B-354  |
| 120<br>DIAPER-CHANGING STATION                                     | KOALA KARE PRODUCTS MODEL KB-110-SSWM HORIZONTAL WALL MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION, OR APPROVED EQUAL.   |
| 121<br>FOLDING SHOWER SEATS  | BOBRICK MODEL B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT, OR APPROVED EQUAL.   |

| STANDARD  | CAMPUS ALTERNATIVES  |
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| 122 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.)   |
| 123 KEYING FOR TOILET ACCESSORIES   | BOBRICK KEY #2055  |
| 124 LAVATORY SINK (COUNTERTOP):   | AMERICAN STANDARD MODEL 0476.028 AQUALYN™ VITREOUS CHINA COUNTERTOP SINK, OR APPROVED EQUAL.   |
| 125 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.   |
| 126 MIRRORS (FRAMED)  | BOBRICK B-290 SERIES, 18" X 36", OR APPROVED EQUAL.  |
| 127 SHOWER CURTAIN HOOKS  | BOBRICK MODEL 204-1 STAINLESS STEEL SHOWER CURTAIN HOOK, OR APPROVED EQUAL.  |
| 128 SHOWER CURTAIN RODS   | BOBRICK MODEL B-6107 HEAVY-DUTY SHOWER CURTAIN ROD, OR APPROVED EQUAL.   |
| 129 SHOWER CURTAINS   | BOBRICK MODEL 204-3 VINYL SHOWER CURTAIN, OR APPROVED EQUAL.   |
| 130 SHOWER SOAP DISH  | BOBRICK MODEL B-4390 RECESSED HEAVY-DUTY SOAP DISH WITH BAR, OR APPROVED EQUAL.  |
| 131 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. |
| 132 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.   |
| 133 UTILITY SHELF   | BOBRICK MODEL B-298 STAINLESS STEEL SHELF, 24" MINIMUM LENGTH X 8" DEPTH, OR APPROVED EQUAL.   |
| 134 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.  |
| 135 WASTE RECEPTACLES (AT STAFF/FACULTY RESTROOMS ONLY)   | BOBRICK MODE B-3644 RECESSED WASTE RECEPTACLE, OR APPROVED EQUAL.  |
| <b>MISC. SPECIALTIES</b>  |  |
| 137 EMERGENCY RESPONDER LOCK BOX  | KNOX BOX 3200 SERIES   |
| 138 EVACUATION CHAIR  | EVACUTRAC BY GARAVENTA LIFT  |
| 139 REMOVABLE STEEL BOLLARD   | CALPIPE SECURITY BOLLARDS  |
| 140 FLEXIBLE BOLLARDS   | RELIANCE FOUNDRY, BC CANADA  |
| 141 LOCKERS   | LYON METAL PRODUCTS, REPUBLIC, PENCO   |
| 142 STORAGE/TRANSFER  | Tyga-Box System or EQUAL   |
| 143 MARKER BOARD  | ABC SCHOOL SUPPLIES, EGAN VISUAL, ADP LEMCO  |
| 144 TACKBOARDS  | ABC SCHOOL SUPPLIES, ADP LEMCO   |
| 145 OPERABLE PARTITIONS   | WON DOOR , HUF COR AIRWALL   |

| STANDARD |  | CAMPUS ALTERNATIVES   |
|----------|--|---|
| 146      | WALL AND CORNER GUARDS                     | CONSTRUCTION SPECIALTIES, INC., BALCO, PAWLING,   |
| 147      | FLAGPOLES                                  | MORGAN-FRANCIS CO. INC.   |
| 148      | <b>FIRE EXTINGUISHERS/ CABINET W/LOCKS</b> |   |
| 149      | GENERAL                                    | J.L. INDUSTRIES (KEY # LL24), POTTER-ROEMER   |
| 150      | <b>SIGNAGE/WAYFINDER</b>                   |   |
| 151      | Interior Building Signs                    | Campus Wayfinding and Signage Master Plan Vol 2 Campus Design Standard Job Placement & Data Center Building dated 3/08/2010, Steinberg Architects |
| 152      | Exterior and Architectural Signs           | Campus Wayfinding and Signage Master Plan Vol 2 Campus Design Standard Job Placement & Data Center Building dated 3/08/2010, Steinberg Architects |
| 153      | Pedestrian and MapSigns/Display            | Campus Wayfinding and Signage Master Plan Vol 2 Campus Design Standard Job Placement & Data Center Building dated 3/08/2010, Steinberg Architects |
| 154      | Roadway, Vehicular and Parking Signage     | Campus Wayfinding and Signage Master Plan Vol 2 Campus Design Standard Job Placement & Data Center Building dated 3/08/2010, Steinberg Architects |
| 155      | Room Signs                                 | Campus Wayfinding and Signage Master Plan Vol 2 Campus Design Standard Job Placement & Data Center Building dated 3/08/2010, Steinberg Architects |
| 156      | <b>DIV. 11: EQUIPMENT</b>                  |   |
| 157      | FOOD SERVICE EQUIPMENT                     | Wolfe, Dwyer  |
| 158      | KITCHEN, APPLIANCES                        | KitchenAid, Samsung, GE, Whirlpool  |
| 159      | PROJECTION SCREENS                         | DA-LITE   |
| 160      | PROJECTOR MOUNTS                           | CHIEF MAUNFACTURING OR EQUAL  |
| 161      | <b>DIV. 12: FURNISHINGS</b>                |   |
| 162      | WINDOW SHADES                              | MECHO-SHADE CORP, LUTRON  |
| 163      | METAL LAB CASEWORK                         | KEWAUNEE SCIENTIFIC, HANSON, HAMILTON   |
| 164      | LAMINATED CASEWORK                         | KEWAUNEE SCIENTIFIC, HANSON, HAMILTON   |
| 165      | WOOD LAB CASEWORK                          | KEWAUNEE SCIENTIFIC, HANSON, HAMILTON   |
| 166      | <b>BLEACHERS</b>                           |   |
| 167      | INTERIOR, GYMNASIUM, TELESCOPIC, STND.     | Irwin Telescopic, Studisteel, Southern Bleacher Company, KYA System   |
| 168      | <b>WINDOW COVERING</b>                     |   |
| 169      | SOLAR SHADE                                | Mecho Shade, Lutron   |
| 170      | BLINDS - VERTICAL/ HORIZONTAL              | Levolor, Hunter-Douglas, Lutron   |
| 171      | <b>BIKE RACK</b>                           |   |
| 172      | GENERAL                                    | PARK A BIKE, WASSAU MADE BY WASSAU TILE INC.  |
| 173      | <b>DIV. 13: SPECIAL CONSTRUCTION</b>       |   |
| 174      | MODULAR STRUCTURES                         | MOD SPACE, WILLIAMS SCOTSMAN, AURORA - DSA APPROVED ONLY  |
| 175      | <b>DIV. 14: CONVEYING EQUIPMENT</b>        |   |
| 176      | STANDARD ELEVATORS                         | Mitsubishi, Thyssen Krupp, Fujitec, Schindler   |
| 177      | CONTROLLER                                 | MOTION CONTROLS.....CONTROLLER CANNOT BE PROPRIETARY  |

| STANDARD                          |   | CAMPUS ALTERNATIVES   |
|-----------------------------------|---|---|
| 178                               | ELEVATOR DOORS<br>Graffiti proof interior   | GAL DOOR EQUIPMENT  |
| 179                               | ELEVATOR CAB LIGHT FIXTURE                  | LED   |
| 180                               | WHEELCHAIR LIFTS                            | GARAVENTA   |
| 181                               | EXIT STAIR EVACUATION CHAIRS                | Garaventa EVACU-TRAC CD7 or better  |
| 182                               | HYDRAULIC ELEVATORS-PASSENGER               | Mitsubishi, Thyssen Krupp, Kone, Schindler  |
| 183                               | HYDRAULIC ELEVATORS-FREIGHT                 | THYSSENKRUPP, KONE, SCHINDLER   |
| 184                               | DUMBWAITER                                  | MATOT   |
| <b>DIV. 21: FIRE SUPPRESSION</b>  |   |   |
| 186                               | VALVES                                      | RELIABLE  |
| 187                               | FIRE PROTECTION EQUIPMENTS                  | TYCO, VIKING  |
| 188                               | FIRE DEPARTMENT CONNECTIONS                 | POTTER-ROEMER, CROKER   |
| 189                               | POST INDICATOR VALVES                       | CLOW, MUELLER   |
| 190                               | FLOW AND TEMPER SWITCHES                    | NOTIFIER, POTTER ELECTRIC   |
| 191                               | FIRE HYDRANTS                               | CLOW VALVE, RICH VALVE, James Jones   |
| <b>DIV. 22: PLUMBING</b>          |   |   |
| <b>PIPE</b>                       |   |   |
| 194                               | DOMESTIC / POTABLE                          | C900 Blue, Copper K, #80 PVC  |
| 195                               | UNDERGROUND IRRIGATION PIPING               | Schedule 40 and schedule 80 PVC 1/2" to 3" CVPC chlorinated polyvinyl   |
| 196                               | UNDERGROUND SANITARY PIPING                 | CAST IRON, SDR-35 ASTM A888, CISPI 301  |
| 197                               | ABOVE GROUND SANITARY PIPING                | Cast Iron Tyler Pipe /DWV Copper  |
| 198                               | PIPE TUBING AND FITTINGS                    | C-900 Mega Lug FTGs Approved CI Conn Flange   |
| 199                               | STEEL PIPE FUEL GAS/NATURAL GAS             | Black Schedule 40 indOor only with similar fittings   |
| 200                               | STEEL PIPE WATER OR AIR                     | Galvanized Domestic only - No Substitute, or black schedule 40  |
| 201                               | BRASS PIPE                                  | Red Brass, Schedule 40 lead free  |
| 202                               | COPPER TUBING                               | Type "K" below grade or Type "L" above grades only, No "M", No substitutes  |
| 203                               | BRASS SCHEDULE 40 SOLDER JOINT FTG's        | Domestic  |
| 204                               | SCREWED FITTINGS                            | Domestic  |
| 205                               | GAS PIPING UNDERGROUND                      | Polyethylene Pipe, Steel transition, yellow tracer wire, Butt fusion or socket  |
| 206                               | BUILDING DRAIN, WASTE & VENT                | Cast iron no hub, no hub couplings, Cast Iron, Ftgs. / DWV Copper ANANCO, Tyler MS coupling, PVC Standard ASTM D2661-87 |
| 207                               | PIPE AND FITTINGS                           | Standard D2751-88 Cast iron, no hub pipe and fittings, waste, silver solder for 2 inch or above pipe.                   |
| <b>RESTROOM PLUMBING FIXTURES</b> |   |   |
| 209                               | ANGLE STOP FITTING WITH LOOSE KEY           | CHICAGO FAUCETS MODEL 1013-ABCP.  |
| 210                               | AUTOMATIC FLUSH VALVES, HARD-WIRED          | SLOAN #111-1.28-ES-S-YO   |
| 211                               | FLOOR DRAINS WITH ADJUSTABLE STRAINER HEADS | JAY R. SMITH MFG. CO. MODEL 2005Y (ROUND TOP), OR APPROVED EQUAL.   |



| STANDARD  | CAMPUS ALTERNATIVES  |
|---|--|
| 212 LAVATORY FAUCET AND DRAIN (RESTROOM<br>213 LAVATORIES SHALL BE SUPPLIED WITH HOT<br>214 AND COLD WATER)<br>215<br>216 | A. HOT AND COLD WATER SINK FAUCET: CHICAGO FAUCETS<br>MODEL 802-VABCP, OR APPROVED EQUAL.<br>B. SINGLE SUPPLY METERING SINK FAUCET: CHICAGO<br>FAUCETS MODEL 3400-ABCP, OR APPROVED EQUAL.<br>C. HOT AND COLD WATER MIXING METERING SINK FAUCET:<br>CHICAGO FAUCETS MODEL 857- 665PSHABCP,<br>1. CONCEALED MECHANICAL MIXING VALVE: CHICAGO<br>FAUCETS MODEL 242.165.AB.1, OR APPROVED EQUAL.<br>D. DRAIN GRID STRAINER WASTE: CHICAGO FAUCETS<br>MODEL 327-XCP  |
| 217<br>218 SHOWER FAUCETS AND HEADS<br>219  | A. ACCESSIBLE SHOWERS: SYMMONS TEMPTROL II™ (2000<br>SERIES) SHOWER SYSTEM WITH HAND SPRAY, MODEL 25-<br>500-B30-V,<br>B. NON-ACCESSIBLE SHOWERS: SYMMONS 2000™ SERIES<br>SHOWER SYSTEM (INCLUDES CLEAR- FLO SHOWER HEAD<br>WITH ARM AND FLANGE), MODEL 25-1,<br>C. PROVIDE A SHUT-OFF VALVE IN A STAINLESS STEEL<br>RECESSED WALL VALVE BOX WITH 1/8" ALLEN HEAD CAM<br>LATCH, FOR EACH MANIFOLD SUPPLYING SHOWERS.<br>MILCOR VERSATILE VALVE BOX IN SIZE AS DETERMINED BY<br>ARCHITECT, OR APPROVED EQUAL. |
| 220 TOILET FIXTURES (Low Flow, Viterous China)  | American Standard, Kohler  |
| 221 SINKS   | American Standard, Kohler  |
| 222 Stop Fittings   | Chicago Faucets model 1013-ABLP  |
| 223 KITCHEN SINKS   | Elkay, Koler, Stainless steel  |
| 224 SERIVCE SINKS   | Koler, Chicago   |
| 225 URINALS (Low Flow)  | Sloan  |
| 226 URINALS (Waterless)   | Sloan  |
| 227 FAUCETS   | Chicago-automatic or manual only   |
| 228 FLUSH VALVES - TOILETS, URINALS   | Sloan only - manual or sensor - no zurn  |
| 229 DOMESTIC WATER HEATER   | Rheem, A.O. Smith, Bradford White  |
| 230 CIRCULATING PUMP  | Bell and Gossett, Grundfos with equal times  |
| 231 PLUMBING VALVES AND ACCESSORIES   |  |
| 232 GENERAL   | Nibco or equal domestic product only, lead free where applicable   |
| 233 EXPANSION TANKS   | AMTROL, Bell and Gossett, Watts  |
| 234 BACKFLOW PREVENTERS   | Watts/FEBCO, ZURN/Wilkins  |
| 235 CLEAN OUTS  | J.R. Smith, NIBCO  |
| 236 FLOOR DRAINS  | J.R. Smith, ZURN, MIFAB  |
| 237 TRAP PRIMERS  | SIOUX CHIEF, Automatic or connect to flush valve   |
| 238 ROOF DRAINS   | J.R. Smith, ZURN   |
| 239 BALL VALVES   | MIBCO (Brass, Full Port) Accorn  |
| 240 GATE VALVES   | NIBCO (Union Bonnet, Raised Stem) Accorn   |
| 241 GLOBE VALVES  | NIBCO (Brass)  |
| 242 CHECK VALVES  | NIBCO (Brass), FEBCO   |

|     | STANDARD  | CAMPUS ALTERNATIVES  |
|-----|---|--|
| 243 | VALVES( WATER, BELOW GROUND)  | STOCKHAM (Cast Iron Flanged AWWA with operating unit)                      |
| 244 | BACKWATER VALVES  | ZURN   |
| 245 | DRAIN PUMPS   | SWABY, PACO, PEERLESS, WEIL  |
| 246 | CHECK VALVES FOR 4" OR LARGER LINE                                  | MILWAUKEE, ZURN, COMBRACO OR EQUAL   |
| 247 | DRAINAGE SYSTEMS  | ZURN, J. R. SMITH MFR CO   |
| 248 | ELECTRIC SELF-REGULATING T&M CABLE                                  | RAYCHEM CORP. THERMON COMMERCIAL PROD. DIVISION                            |
| 249 | TRENCH -FUNNEL DRAINS   | STOCKHAM VALVES & FITTINGS CO., NIBCO                                      |
| 250 | HOSE BIBB BOX   | ACORN ENG #8140/8102, STAINLESS STEEL RECESSED W. LOOSE KEY HANDELS, DOOR. |
| 251 | PISTON WATER HAMMER   | MIFAB MWA Series   |
| 252 | BOILER  | RAYPACK, LOCHINVAR   |
| 253 | EMERGENCY EYEWASH & SHOWERS   | Watersaver, Haws, Encon, Bradley   |
| 254 | <b>WATER FOUNTAINS</b>  |  |
| 255 | DRINKING  | Haws, HalsyTaylor, Bobrick   |
| 256 | <b>DIV. 23: HEATING, VENTILLATION &amp; AIR CONDITIONING (HVAC)</b> |  |
| 257 | A/C UNITS, ROOF MOUNTED   | York, Trane  |
| 258 | A/C UNITS WALL MOUNTED  | Bard, Trane, Carrier   |
| 259 | AIR HANDLERS – CUSTOM   | Temtrol, Trane, Energy Labs  |
| 260 | AIR HANDLERS  | Carrier, York, Trane   |
| 261 | HVAC HYDRONIC CONTROL VALVE   | Belimo, two way  |
| 262 | HVAC HEATING & COOLING CONTROL VALVE                                | Belimo PICCV two way with reserving switch                                 |
| 263 | HVAC HYDRONIC PIPE FLANGE ADAPTER CONNECTIONS                       | OMNI   |
| 264 | MOTORS  | Baldor, GE, Dayton, Baltimore  |
| 265 | PUMPS   | PACO, Bell & Gossett, TACO   |
| 266 | COOLING TOWERS  | Marley   |
| 267 | OTHER FILTERS   | American Fan, Triden Filtering Sys, 3M, Florence Filter                    |
| 268 | BOILER CONTROLS-HOT WATER   | Alertron Controls  |
| 269 | FAN COILS DX  | Carrier, York, Trane   |
| 270 | COMPUTER ROOM AC UNITS  | Data Aire  |
| 271 |   | Dedicated BMS controlled,inverter airconditioning for IDF rooms            |
| 272 | CHILLED WATER FAN COILS   | Carrier, York,Trane  |
| 273 | AIR COOLED CHILLER  | Carrie   |
| 274 | CENTRIFUGAL WATER-COOLED CHILLER                                    | Carrie   |
| 275 | SCREW-TYPE AIR COOLED CHILLER                                       | Carrie   |
| 276 | SCREW-TYPE WATER COOLED CHILLER                                     | Carrie   |
| 277 | SCROLL-TYPE AIR COOLED CHILLER                                      | Carrie   |
| 278 | CHILLER-GENERAL   | Carrie   |
| 279 | ABSORBTION CHILLER  | BROAD  |
| 280 | OTHER ABSORBTION CHILLER  | BROAD  |

| STANDARD                              |   | CAMPUS ALTERNATIVES   |
|---------------------------------------|---|---|
| 281                                   | VENTILATORS AND EXHAUST FANS  | Cook, Greenheck   |
| 282                                   | FIRE SMOKE DAMPER   | Belmo w/ end switch to communicate to EMS   |
| 283                                   | VARIABLE FREQUENCY DRIVES   | ABB   |
| 284                                   | HYDRONIC PIPING   | Carbon Steel, Sch 80, Insulated PVC Perma Pipe, Thermacor   |
| 285                                   | AIR CONDITIONING THERMOSTAT   | ALERTON Total Line 3-heating / 2 cool/heat pump/digital 7 day programable PIN P 374-2800  |
| 286                                   | THERMOSTAT LOCK BOX   | Honeywell Large Opaque / PINTG 512B1007   |
| 287                                   |   | Alertron , White Roger  |
| 288                                   | MOTOR CONTROLS  | Square D  |
| <b>DIV. 25: INTEGRATED AUTOMATION</b> |   |   |
| 290                                   | ENERGY MANAGEMENT SYSTEM  | ALERTON-CLIMATECH (SOLE-SOURCE)   |
| <b>DIV. 26: ELECTRICAL</b>            |   |   |
| <b>RESTROOM ELECTRICAL FIXTURES</b>   |   |   |
| 293                                   | 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. |
| 294                                   | LIGHT FIXTURES  | A. VANDAL-RESISTANT CONSTRUCTION PREFERRED.   |
| 295                                   |   | B. LISTED FOR DAMP OR WET LOCATIONS.  |
| 296                                   |   | C. LAMPING: T8 OR CFL.  |
| <b>LIGHTING/INDOOR-OUTDOOR</b>        |   |   |
| 298                                   | INTERIOR LIGHT FIXTURES(LED), Fluoresces<br>No incandesce light fixture | PRUDENTIAL, LITHONIA, HE WILLIAMS, LIGHTOLIER - MEET ENERGY STAR REQUIRMENTS (T-8 TUBES, LED)   |
| 299                                   | INTERIOR SUSPENDED LIGHTS   | PRUDENTIAL, LITHONIA, PHILIPS - LED WITH 10 YRS WARRANTY ON LED AND DRIVER  |
| 300                                   | VANDAL PROOF LIGHTING FIXTURES  | LED WITH 10 YRS WARRANTY ON LED AND DRIVER, RUUD/CREE, STANCO   |
| 301                                   | CONNECT WITH EMERGENCY LIGHTS   | ALERTRON TO EMERGENCY GRID  |
| 302                                   | EXTERIOR LIGHTS   | LED   |
| 303                                   | PARKING LOT   | LED   |
| 304                                   | ATHLETIC FIELD  | MUSCO   |
| 305                                   | LIGHT SENSORS   | "WATT STOPPER", LEVITON, LUTRON   |
| <b>LIGHTING SUPPLIES</b>              |   |   |
| 307                                   | LIGHT BULBS, FLOURESCNETS T-8's   | GE, SYLVANIA, PHILIPS 4100K, MIN 80CRI - LED  |
| 308                                   | BALLASTS  | GE, SYLVANIA, PHILIPS, LUTRON   |
| 309                                   | OTHER   | LED   |
| <b>ELECTRICAL FIXTURES</b>            |   |   |
| 311                                   | ELECTRONIC WIRELESS WALL CLOCKS   | PRIMEX  |
| 312                                   | EXIT SIGNS  | LED   |
| 313                                   | GENERAL LIGHT SWITCHES  | LEVITON, HUBBELL  |
| 314                                   | GENERAL RECEPTACLES   | LEVITON, HUBBELL  |
| 315                                   | GENERAL SAFETY SWITCHES   | GE  |

| STANDARD |   | CAMPUS ALTERNATIVES   |
|----------|---|---|
| 316      | LIGHTING CONTROL PANELS                   | LUTRON ECO  |
| 317      | TIME CLOCKS - TIME SWITCHES               | INTERMATIC  |
| 318      | STORAGE/TRANSFER                          | HP, DELL, SIEMEN'S, CISCO...SEE I.T. STANDARDS                |
| 319      | <b>ELECTRICAL EQUIPMENT</b>               |   |
| 320      | HIGH & MEDIUM VOLTAGE TRANSFORMERS        | STANDARD GENERAL DRY-TYPE-SQUARE D                            |
| 321      | LOW VOLTAGE & TELECOM CONDUCTORS          | APPROVED NEC COPPER CONDUCTORS ONLY-THHN/THWN                 |
| 322      | LOW VOLTAGE TRANSFORMERS                  | SQUARE D, GE  |
| 323      | SECONDARY DISTRIBUTION CONDUCTOR          | APPROVED NEC COPPER CONDUCTORS ONLY-THHN/THWN                 |
| 324      | MAIN SWITCHBOARD                          | G.E., CUTLER-HAMMER, SELECTION TO MATCH EXISTING              |
| 325      | MAIN DISTRIBUTION SWITCHBOARDS            | G.E., CUTLER-HAMMER, SELECTION TO MATCH EXISTING              |
| 326      | DRY TYPE TRANSFORMERS                     | WESTINGHOUSE, GE, CUTLER-HAMMER                               |
| 327      | MAGNETIC MOTOR STARTERS                   | GE, CUTLER-HAMMER   |
| 328      | SOFT START MOTOR STARTERS                 | CUTLER HAMMER   |
| 329      | PANELBOARDS                               | GE, CUTLER-HAMMER   |
| 330      | MCC (MOTOR CONTROL CENTERS)               | SQUARE D  |
| 331      | VARIABLE FREQUENCY DRIVES                 | ABB   |
| 332      | TEERMINAL AIR UNITES VAV                  | TITUS, KRUEGER  |
| 333      | ELECTRICAL FINISH FACE PLATES             | STAINLESS FINISH PLATES                                       |
| 334      | <b>ELECTRIC VEHICLES/ CHARGERS</b>        |   |
| 335      | ELECTRICAL VEHICLES AND CHARGERS          | TAYLOR DUNN, HONDA, CLUB CAR PRECEDENT                        |
| 336      | CHARGER Mfr                               | TAYLOR DUNN, GE, BOSCH, LESTER                                |
| 337      | <b>EMERGENCY POWER SYSTEM-GRID MATRIX</b> |   |
| 338      | CONNECT WITH SUMP PUMPS                   | ALERTRON TO EMERGENCY GRID                                    |
| 339      | CONNECT WITH CO2 SENSORS                  | ALERTRON TO EMERGENCY GRID                                    |
| 340      | CONNECT WITH EMS/CMMMS                    | ALERTRON TO EMERGENCY GRID                                    |
| 341      | <b>EMERGENCY MANAGEMENT SYSTEM</b>        |   |
| 342      | EMERGENCY MANAGEMENT SYSTEM               | ALERTON-CLIMATECH   |
| 343      | ENERGY MANAGEMENT SYSTEM                  | ALERTON-CLIMATECH   |
| 344      | Emergency Phone                           | CALL-24 Call Wireless   |
| 345      | Elevator Phone                            | CALL-24 Call boxes  |
| 346      | <b>FIRE PROTECTION</b>                    |   |
| 347      | ELECTRONICS                               | EDWARDS EST   |
| 348      | <b>EMERGENCY POWER SYSTEMS</b>            |   |
| 349      | GENERATORS                                | ONAN, CATERPILLAR, KOHLER (MUST HAVE DPF WITHIN 100M OF K-12) |
| 350      | UPS                                       | SCHNEIDER ELECTRIC, EATON                                     |
| 351      | <b>DIV. 27: COMMUNICATIONS</b>            |   |
| 352      | Data Center Server Enclosures             | APC, CHATSWORTH PRODUCTS, EATON                               |

| STANDARD  | CAMPUS ALTERNATIVES                    |   |
|---|--|---|
| 353   | IDF Data Enclosures                    | APC, CHATSWORTH PRODUCTS, EATON                                     |
| 354   | Network Cabling Systems                | SIEMON 10G CAT 6A MAX. ADC TRUENET (all backed by 20 year warranty) |
| 355   |  | COPPER TEN CAT6A (all backed by 20 year warranty)                   |
| 356   |  | SIEMON 10G SHIELDED CAT 6A Z-MAX                                    |
| 357   |  | 10GCAT6A Plenum/Pandout,Ortonics,Beldon                             |
| <b>27 05 00 COMMON RESULTS FOR COMM</b>         |  |   |
| 359   | Structured Cabling System Warranty     | MINIMUM 25 YEAR WARRANTY  |
| <b>27 05 26 GROUNDING &amp; BONDING</b>         |  |   |
| 361   | Bus Bar                                | CHATSWORTH  |
| <b>27 05 28 PATHWAYS FOR COMM SYSTEMS</b>       |  |   |
| 363   | Hangers & Cable Ties                   | CHATSWORTH PRODUCTS, COOPER B-LINE                                  |
| 364   | Cable Tray                             | COOPER B-LINE, PANDUIT, LEVITON, CHATSWORTH                         |
| 365   | Air Blown Fiber System (ABF)           | DESIGN SPEC NOT CAMPUS STANDARD                                     |
| 366   | IDF Data Enclosures                    | CHATSWORTH, SIEMON V-600, APC                                       |
| <b>27 05 43 UG DUCTS &amp; RACEWAY FOR COMM</b> |  |   |
| 368   |  | DESIGN SPEC NOT CAMPUS STANDARD                                     |
| <b>27 11 00 COMM EQUIP. ROOM FITTINGS</b>       |  |   |
| 370   | Ladder Racks                           | CHATSWORTH PRODUCTS   |
| 371   | Equipment Racks                        | APC NETSHELTER, ORTRONICS, CHATSWORTH PRODUCTS                      |
| 372   | Wall-Mounted Cabinets                  | COOPER B-LINE DAMAC, CHATSWORTH PRODUCTS                            |
| 373   | Horizontal Managers                    | CHATSWORTH PRODUCTS   |
| 374   | Fiber Optic Terminals (FOT's)-Housing  | PANDUIT, SYSTIMAX, CORNING  |
| 375   | Fiber Terminal Adapters and Connectors | PANDUIT, SYSTIMAX, CORNING  |
| 376   | Patch panels                           | SIEMON Z-MAX CAT6A/F/ UTP SHIELDED, PANDUIT, SYSTIMAX, ORTONICS     |
| 377   | Cable Tags & Splice Labels             | 3M, PANDUIT   |
| <b>27 13 00 COMM BACKBONE CABLING</b>           |  |   |
| 379   | Copper OSP Cable                       | SUPERIOR ESSEX  |
| 380   | Splice Cases - Outside                 | 3M, PANDUIT , CORNING   |
| 381   | Splice Cases - Inside                  | 3M, PANDUIT, CORNING  |
| 382   | Splice Bay & Relay Labels              | 3M  |
| <b>27 15 00 COMM HORIZONTAL CABLING</b>         |  |   |
| 384   | Station Cabling                        | PANDUIT AND SYSTIMAX, F/UTP PLENUM-RATED                            |
| 385   | Jacks                                  | PANDUIT AND SYSTIMAX  |
| 386   | Faceplates                             | PANDUIT AND SYSTIMAX  |
| <b>27 40 00 AUDIO VISUAL</b>                    |  |   |
| 388   | CONTROL SYSTEM                         | UTELOGY   |
| 389   | PROJECTOR                              | PANASONIC   |
| 390   | DOCUMENT CAMERA                        | ALMO  |
| 391   | MICROPHONE                             | SHURE   |

| STANDARD   |                                     | CAMPUS ALTERNATIVES  |
|--|-------------------------------------|--|
| 392  | NETWORK SWITCH                      | HP 5400,3800 POE   |
| 393  | CLASSROOM LIGHTING CONTROL          | LUTRON   |
| 394  | PC COMPUTERS                        | DELL OPTIPLEX  |
| 395  | NETWORK DATA SWITCHES               | HP 5400,3800 SERIES POE  |
| 396  | UPS                                 | EATON  |
| 397  | PROJECT SCREEN                      | DA-LITE  |
| <b>DIV. 28: ELECTRONIC SAFETY &amp; SECURITY</b> |                                     |  |
| <b>28 10 00 ELECTRONIC ACCESS CONTROL</b>        |                                     |  |
| 400  | Card Readers                        | HID ICLASS SE contactless smart card (R40 type) - no sub. Requires ICLASS Standard Compatibility, 920NTNTEK00000 (Typical model) |
| 401  | Software                            | LENEL ONGUARD  |
| 402  | Controllers                         | Lenel OnGuard. LNL 3300  |
| 403  | Data Center Air Conditioning        | DEPENDS ON METHOD OF COOLING   |
| 404  | Classroom AV                        | UTELOGY,   |
| 405  | Alarm Initiating Devices            | Edwards EST  |
| 406  | Video Management Software           | LENEL ONGUARD  |
| <b>28 20 00 ELECTRONIC SURVEILLANCE</b>          |                                     |  |
| 408  | CCTV Cameras                        | Review this section to District Standards  |
| 409  | High Definition / MEGA Pixel        | ARECONT VISION MEGAVIDEO SERIES  |
| 410  | Digital VIDEO to IP ENCODER         | AXIS: Q741 (OR BETTER)   |
| 411  | System Server                       | Lenel Enterprise NVR   |
| 412  | TV Panels                           | Samsung  |
| 413  | CCTV                                | PANASONIC- DIGITAL IP  |
| <b>WIRELESS ACCESS POINTS</b>                    |                                     |  |
| 415  | Indoor Access Points                | ARUBA AP-225   |
| 416  | Outdoor Access Points               | ARUBA AP-275   |
| <b>NETWORK SWITCHES</b>                          |                                     |  |
| 418  | Data Switches                       | HP 5400,3800 SERIES POET   |
| <b>FIRE ALARM SYSTEM</b>                         |                                     |  |
| 420  | GENERAL                             | Edwards (EST 3) with Mass Notification   |
| 421  | FIRE ALARM PULL STATION             | EST CAT 45 KEY   |
| 422  | SPEAKER/STROLL AMBER ALERT          | EDWARDS W/ MASS NOTIFICATION   |
| <b>DIV. 32: EXTERIOR IMPROVEMENTS</b>            |                                     |  |
| <b>IRRIGATION SYSTEMS</b>                        |                                     |  |
| 425  | IRRIGATION CONTROLLER               | CALSENSE-ET2000E   |
| 426  | IRRIGATION - Sprinkler Heads        | HUNTER   |
| 427  | IRRIGATION SYSTEMS                  | CALSENSE-ET2000E   |
| 428  | CONTROLLER REMOTE SITE MANAGEMENT   | CAL SENSE  |
| 429  | CONTROLLER HAND-HELD REMOTE CONTROL | CAL SENSE  |
| 430  | RAIN SENSOR                         | CAL SENSE  |

| STANDARD |  | CAMPUS ALTERNATIVES |   |
|----------|--|---------------------|---|
| 431      | <b>CONTROL WIRE - COMMON</b>                   |                     | Paige P7001D 12 AWG White                                 |
| 432      | <b>CONTROL WIRE - HOT</b>                      |                     | Paige P7001D 14 AWG Colored                               |
| 433      | <b>MASTER VALVE</b>                            |                     | CAL SENSE   |
| 434      | <b>FLOW SENSOR</b>                             |                     | CAL SENSE   |
| 435      | <b>ELECTRIC CONTROL VALVE</b>                  |                     | CAL SENSE   |
| 436      | <b>LANDSCAPE DESIGN</b>                        |                     |   |
| 437      | <b>LARGE TREES</b>                             |                     | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION |
| 438      | <b>MEDIUM TREES PRIMARILY FOR SHADE</b>        |                     | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION |
| 439      | <b>SMALL TREES FOR FLOWERS &amp; FRAGRANCE</b> |                     | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION |
| 440      | <b>PALMS</b>                                   |                     | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION |
| 441      | <b>SHRUBS INACTIVE AREAS</b>                   |                     | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION |
| 442      | <b>SHRUBS IN IRRIGATED AREAS</b>               |                     | CALIFORNIA INDIGINENT DRAUGHT TOLERATE SPECIES VEGITATION |
|          |  |                     |   |