INTERIOR LIGHTING DESIGN CRITERIA

ROOM / AREA	AVG FC	CONTROL							COMMENTS
		DH	DIM	DLS	EMS	OS	SWOF	SWON	
GENERAL									
Bathroom	30					X	X		
Break Room	50					X	X		
Communication Room	50					X	X		
Conference Room	50		X				X		Achieve FC level from 2'X4' fluorescent fixtures. Downlights for task lighting over a conference table during presentations.
Corridors	20				X		X	X	Egress lighting shall be on generator power. Consider making emergency fixtures "night lights".
Electrical Room	30					X	X		
Janitor Room	20					X	X		
Mechanical Room	30					X	X		
Office, Enclosed	50			X		X	X		
Office, Open	50	X			X		X	X	Egress lighting shall be on generator power. Consider making emergency fixtures "night lights".
Stairs	20								Fixtures shall be on generator power.
Storage	20					X	X		
Vestibule	20					X	X		
SECOND FLOOR CENTRAL PLANT									
Mechanical Room	50	X				X	X		
FIRST FLOOR - 141									
Assembly Hall	50	X	X				X		Consider addressable ballasts for increased flexibility. All fixtures shall be on generator power.
Atrium Lobby	20				X				Egress lighting shall be on generator power. Consider making emergency fixtures "night lights".
Circulation	30				X		X	X	Egress lighting shall be on generator power. Consider making emergency fixtures "night lights".
Classrooms	70		X				X		Allow for future video conferencing capabilities.
Library / Learning Center	70		X				X		
Office, Family Support	50					X	X		
Office, Recruiting	50					X	X		
Office, Security	50					X	X		Fixtures shall be on emergency power.
Office, Supply NCO	50					X	X		
Storage, 199TH	30					X	X		
Storage, Audio / Visual	50					X	X		
Storage, Battery A	30					X	X		
Storage, Battery B	30					X	X		
Storage, HHB	30					X	X		
Storage, Table and Chair	20					X	X		
Vestibule, Main Entrance	20				X				Egress lighting shall be on generator power. Consider making emergency fixtures "night lights".
SECOND FLOOR - 141									
Elevator Equipment Room	30					X	X		
Locker Rooms	30	X				X	X		
Medical	50	X			X		X	X	
Storage, Training Aid	20					X	X		
Training Device / Sim Center	50		X				X		
Vault	30					X	X		Fixtures shall be on emergency power.
THIRD FLOOR - 141									
FOURTH FLOOR - 141									All fixtures on the Fourth Floor shall be on generator power.
Attic	5						X		

EXTERIOR LIGHTING DESIGN CRITERIA

ROOM / AREA	MIN FC	CONTROL							COMMENTS
		EMS	PC	SW	OS		SWOF	SWON	
Central Plant Platform	1			X					
Central Plant Crawlspace	1		X		X		X	X	
Main Entrance	5	X	X						
Other Entrances	2	X	X						
Bldg. Exteriors	1	X	X						
Parking Lots	1		X						

Legend:
DH=Daylight Harvesting Controls
DIM=Dimming Controls
DLS=Dual Level Switching
EMS=Controlled by Energy Management System / Time and Date Controls
PC=Photocell
SW=On/Off Switch
SWOF=Switch (Override Off)
SWON=Switch (Timed Override On)

PRELIMINARY LIGHT FIXTURE SCHEDULE:

A SERIES (TO BE CHOSEN BY FINAL DESIGN ARCHITECT)

A1 DECORATIVE CHANDELIER FOR MAIN VESTIBULE
BALLASTS: ELECTRONIC
LAMPS: MULTIPLE COMPACT FLUORESCENT SOURCES; 3000K; MIN CRI=80; TOTAL ANTICIPATED WATTAGE LESS THAN OR EQUAL TO 800 WATTS.

A2 DECORATIVE INTERIOR WALL SCONCE
BALLAST: ELECTRONIC, EMERGENCY BATTERY
LAMP: COMPACT FLUORESCENT SOURCE; 26-42 WATTS; 3000K; MIN CRI=85

A3 DECORATIVE EXTERIOR WALL SCONCE
BALLAST: HPF, MAGNETIC
LAMP: METAL HALIDE; MIN CRI=85; WATTAGE AS REQUIRED TO MEET FOOTCANDLE REQUIREMENTS.

A4 DECORATIVE EXTERIOR WALL SCONCE.
BALLAST: ELECTRONIC
LAMP: COMPACT FLUORESCENT SOURCE: 3000K; MIN CRI=85; WATTAGE AS REQUIRED TO MEET FOOTCANDLE REQUIREMENTS.

A5 DECORATIVE INTERIOR WALL SCONCE, LINEAR FLUORESCENT SOURCE; END-TO-END CONNECTION.
BALLAST: ELECTRONIC, DIMMING; EMERGENCY BATTERY
LAMPS: 39-WATT (3-FOOT), T5HO AND 54-WATT (4-FOOT), T5HO; LENGTHS AS NECESSARY; 3000K; MIN CRI=85

S SERIES (CHOSEN BY THE SITE MASTER PLANNER)

S1 AREA SITE LIGHTING FIXTURE; GUARDCO FORM 10 SERIES (OR EQUAL), EH STYLE (ARM MOUNT); BLACK FINISH; 320-WATT PULSE START METAL HALIDE LAMP (MINIMUM); HIGH-POWER FACTOR BALLAST; INTEGRAL PHOTOCELL; FULL CUTOFF OPTICS; MOUNTED ON 30-FOOT HIGH, BLACK FINISHED, ROUND, ALUMINUM POLE WITH 3-FOOT CONCRETE BASE.

S2 LIGHTED BOLLARD; GUARDCO BRM824 SERIES (OR EQUAL); BLACK FINISH.

S3 ARCHITECTURAL FLOODLIGHT; KIM CFL1 SERIES (OR EQUAL); BLACK FINISH.

S4 ARCHITECTURAL FLOODLIGHT; KIM AFL10 SERIES (OR EQUAL); BLACK FINISH.

S5 ARCHITECTURAL FLOODLIGHT; KIM AFL20 SERIES (OR EQUAL); BLACK FINISH.

S6 IN-GRADE FLOODLIGHT, IP68-RATED; NARROW FLOOD, ADJUSTABLE OPTICS; KIM KN-LTV SERIES (OR EQUAL). PROVIDE WITH HALF-SHIELD AND GROUT MASK.

F SERIES (CHOSEN BY FINAL DESIGN PROFESSIONAL)

F1 RECESSED, DIRECT / INDIRECT, VOLUMETRIC FIXTURE; WHITE, CORROSION-RESISTANT STEEL HOUSING; ACRYLIC, PRISMATIC REFRACTORS; DUAL 120/277-VOLT.
BALLAST: ELECTRONIC, STEP DIMMING (WHERE REQUIRED), PROGRAM START.
LAMPS: (2) 28-WATT, T5; 3000K; MIN CRI=85.
EXAMPLE: LITHONIA 2RT5 SERIES (OR EQUAL)

F1E SAME AS F1, BUT WITH EMERGENCY BATTERY.

F1HO SAME AS F1, EXCEPT WITH FLUORESCENT, ELECTRONIC DIMMING BALLAST AND (2) 54-WATT, T5HO LAMPS (3000K; MIN CRI=85).

F1HOE SAME AS F1HO, EXCEPT WITH EMERGENCY BATTERY.

F2 RECESSED, GRID-TYPE, 2' X 4' FLUORESCENT LENSED TROFFER; WHITE, CORROSION-RESISTANT, STEEL HOUSING; 0.125-INCH THICK, PATTERN A12 ACRYLIC LENS; WHITE, FLUSH, STEEL DOOR; DUAL 120/277-VOLT.
BALLASTS: ELECTRONIC, INSTANT START.
LAMPS: (2) 32-WATT, T8; 3000K; MIN CRI=80.
EXAMPLE: LITHONIA SP SERIES (OR EQUAL)

F2E SAME AS F2, BUT WITH EMERGENCY BATTERY.

F3 RECESSED, GRID-TYPE, 2' X 4' FLUORESCENT LENSED TROFFER; WHITE, CORROSION-RESISTANT, STEEL HOUSING; 0.125-INCH THICK, PATTERN A12 ACRYLIC LENS; WHITE, FLUSH, WHITE, ALUMINUM DOOR; TRIPLE-GASKETED (LENS, DOOR, FRAME) DUAL 120/277-VOLT.
BALLAST: ELECTRONIC, INSTANT START.
LAMPS: (3) 32-WATT, T8; 3000K; MIN CRI=80.
EXAMPLE: LITHONIA SP SERIES (OR EQUAL)

F3E SAME AS F3, BUT WITH EMERGENCY BATTERY.

F4 RECESSED, GRID-TYPE, 2' X 4' PARABOLIC FIXTURE; WHITE; CORROSION-RESISTANT, STEEL HOUSING; BLACK REVEAL; 4-INCH DEEP, LOW IRIDESCENT, ANODIZED, DIFFUSE SILVER LOUVERS; 32-CELLS; DUAL 120/277-VOLT.
BALLAST: ELECTRONIC DIMMING.
LAMPS: (4) 32-WATT, T8; 3000K; MIN CRI=80.
EXAMPLE: LITHONIA PARAMAX PM4 SERIES (OR EQUAL)

F4E SAME AS F4, BUT WITH EMERGENCY BATTERY.

F5 FLUORESCENT HIGH-BAY FIXTURE; WHITE, CORROSION-RESISTANT STEEL HOUSING; SPECULAR ALUMINUM REFLECTOR; DUAL 120/277-VOLT.
BALLAST: (3), 2-LAMP; ELECTRONIC, PROGRAMMED START; ADDRESSABLE; (1) WITH EMERGENCY BATTERY.
LAMPS: (6) 54-WATT, T5HO; 3000K; MIN CRI=85.
EXAMPLES: COLUMBIA METALUX LHR SERIES (OR EQUAL)

F6 4-FOOT, SURFACE-MOUNTED, LINEAR FLUORESCENT FIXTURE; WALL OR CEILING MOUNT; WHITE, CORROSION-RESISTANT STEEL HOUSING; OPAL ACRYLIC DIFFUSER; DUAL 120/277-VOLT.
BALLAST: ELECTRONIC, INSTANT START.
LAMPS: (2) 32-WATT, T8; 3000K; MIN CRI=80.
EXAMPLE: LITHONIA WC SERIES (OR EQUAL)

F6E SAME AS F5, BUT WITH EMERGENCY BATTERY.

F7 RED, LED EXIT SIGN; WHITE, POLYCARBONATE HOUSING; SINGLE OR DOUBLE STENCIL FACE AS INDICATED ON DRAWINGS; FIELD CONFIGURABLE CHEVRONS; UNIVERSAL BACK / END / TOP MOUNTING; MAINTENANCE-FREE NICAD BATTERY; DUAL 120/277-VOLT.
EXAMPLE: LITHONIA QUANTUM LQM SERIES (OR EQUAL)

F8 4-FOOT, LINEAR FLUORESCENT, HEAVY-DUTY STRIP FIXTURE; WHITE, CORROSION-RESISTANT, STEEL HOUSING; DUAL 120/277-VOLT.
BALLAST: ELECTRONIC, INSTANT START
LAMPS: (2) 32-WATT, T8; 3000K; MIN CRI=80.
EXAMPLE: LITHONIA UN SERIES (OR EQUAL)

F8E SAME AS F8, BUT WITH EMERGENCY BATTERY.

F9 4-FOOT, LINEAR FLUORESCENT, HEAVY-DUTY INDUSTRIAL TURRET FIXTURE; WHITE, CORROSION-RESISTANT, STEEL HOUSING; WHITE, ENAMEL REFLECTOR; SOLID TOP; DUAL 120/277-VOLT.
BALLAST: ELECTRONIC, INSTANT START.
LAMPS: (2) 32-WATT, T8; 3000K; MIN CRI=80.
EXAMPLE: LITHONIA AF SERIES (OR EQUAL)

F9E SAME AS F9, BUT WITH EMERGENCY BATTERY.

F9HO 4-FOOT, LINEAR FLUORESCENT, HEAVY-DUTY INDUSTRIAL TURRET FIXTURE; WHITE, CORROSION-RESISTANT, STEEL HOUSING; WHITE, ENAMEL REFLECTOR; SOLID TOP; DUAL 120/277-VOLT.
BALLAST: ELECTRONIC, PROGRAMMED START.
LAMPS: (2) 54-WATT, T5HO; 3000K; MIN CRI=85.
EXAMPLE: LITHONIA AFP SERIES (OR EQUAL)

F9HOE SAME AS F9HO, BUT WITH EMERGENCY BATTERY

F10 LINEAR FLUORESCENT BATHROOM VANITY FIXTURE; EMERGENCY BATTERY; DUAL 120/277-VOLT.
BALLAST: ELECTRONIC, PROGRAMMED START.
LAMPS: (1) 54-WATT, T5HO; 3000K; MIN CRI=85.
EXAMPLE: ALKCO TABLEAU SERIES (OR EQUAL)

F11 DOCK LIGHT; FOLDING, SINGLE-STRUT, 60-INCH ARM; HEAVY-DUTY, CORROSION-RESISTANT STEEL CONSTRUCTION; 300-WATT INCANDESCENT LAMP; 120-VOLT.
EXAMPLE: LITHONIA FSSA SERIES (OR EQUAL)

F12 8-INCH, NOMINAL, OPEN, COMPACT FLUORESCENT DOWNLIGHT; CLEAR ALZAK, LOW DIFFUSE, IRIDESCENT REFLECTOR; HORIZONTAL LAMPS; DUAL 120/277-VOLT.
BALLAST: UNIVERSAL 26/32/42-WATT TRT, ELECTRONIC
LAMPS: (2) 32-WATT TRT; 3000K; MIN CRI=85
EXAMPLE: GOTHAM AF SERIES (OR EQUAL)

F12E SAME AS F12, BUT WITH EMERGENCY BATTERY

F13 8-INCH, NOMINAL, LENSED, COMPACT FLUORESCENT DOWNLIGHT; CLEAR ALZAK, LOW DIFFUSE, IRIDESCENT REFLECTOR; FRESNAL LENS; VERTICAL LAMP; DUAL 120/277-VOLT.
BALLAST: UNIVERSAL 26/32/42-WATT TRT, ELECTRONIC
LAMPS: (1) 26-WATT TRT; 3000K; MIN CRI=85
EXAMPLE: GOTHAM LGFV SERIES (OR EQUAL)

F14 FLUORESCENT COVE FIXTURE; WHITE, CORROSION-RESISTANT, STEEL HOUSING; EMERGENCY BATTERY; DUAL 120/277-VOLT.
BALLAST: ELECTRONIC, PROGRAMMED START
LAMPS: 54-WATT, T5HO (QUANTITY AS REQUIRED FOR LENGTHS SHOWN ON DRAWINGS); 3000K; MIN CRI = 85
EXAMPLE: PEERLITE HOT-5 SERIES (OR EQUAL)

F15 LINEAR FLUORESCENT, STAINLESS STEEL, CLASSIFIED / HAZARDOUS LOCATION FIXTURE; STAINLESS STEEL HOUSING; HIGH-IMPACT, ACRYLIC LENS; EMERGENCY BATTERY; 277-VOLT.
BALLAST: ELECTRONIC
LAMPS: (3) 32-WATT T8; 4000K; MIN CRI = 85
EXAMPLE: COLUMBIA FSPH SERIES (OR EQUAL)

F16 8-INCH, NOMINAL, OPEN, COMPACT FLUORESCENT DOWNLIGHT; CLEAR ALZAK, LOW DIFFUSE, IRIDESCENT REFLECTOR; HORIZONTAL LAMPS; DUAL 120/277-VOLT.
BALLAST: ELECTRONIC DIMMING
LAMPS: (2) 32-WATT TRT; 3000K; MIN CRI=85
EXAMPLE: GOTHAM AF SERIES (OR EQUAL)

F17 8-INCH, LENSED, HID DOWNLIGHT; WET LOCATION LISTED; ALUMINUM REFLECTOR; VERTICAL LAMP; FRESNAL LENS; 277-VOLT.
BALLAST: HIGH POWER FACTOR, HID
LAMPS: (1) 100-WATT, COLOR CORRECTED, METAL HALIDE LAMP
EXAMPLE: GOTHAM LGH SERIES (OR EQUAL)

F18 12-INCH, OPEN REFLECTOR, ELLIPSOIDAL HID DOWNLIGHT; SEMI-DIFFUSE REFLECTOR; BLACK BAFFLE; VERTICAL LAMP; NARROW DISTRIBUTION; 277-VOLT.
BALLAST: HIGH POWER FACTOR, HID
LAMPS: (1) 400-WATT METAL HALIDE WITH SAFETY GLASS
EXAMPLE: PRESCOLITE ARCHITEKUR 1062 SERIES

F19 VAPOR-TITE, GLOBE-TYPE FIXTURE; 120-VOLT.
BALLAST: ELECTRONIC
LAMPS: (1) 18-WATT COMPACT FLUORESCENT LAMP.
EXAMPLE: HUBBELL VAPORTITE NVQ SERIES (OR EQUAL)

F20 DUST-TITE / WATER-TITE, ENCLOSED/GASKETED LINEAR FLUORESCENT FIXTURE; WET LOCATION LISTED; IMPACT-RESISTANT, UV STABILIZED, POLYESTER REINFORCED FIBERGLASS HOUSING; SHATTER-RESISTANT ACRYLIC DIFFUSER; STAINLESS STEEL LATCHES; DUAL 120/277-VOLT.
BALLAST: ELECTRONIC, INSTANT START
LAMPS: (2) 32-WATT, T8; 3500K; MIN CRI=78
EXAMPLE: LITHONIA DMW SERIES (OR EQUAL)

F21 500-WATT QUARTZ FLOODLIGHT; WIDE DISTRIBUTION; DIE CAST ALUMINUM HOUSING; WET LOCATION LISTED; 120-VOLTS; WALL MOUNTING HARDWARE.
EXAMPLE: LITHONIA TQ SERIES (OR EQUAL)

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MARK	DATE	DESCRIPTION
1	2/22/06	PROG. REVIEW #1
2	3/10/06	PROG. REVIEW #2
3	3/27/06	PROG. REVIEW #3
4	4/10/06	PROG. REVIEW #4
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