LIGHTING FIXTURE SCHEDULE

Type Mark	Manufacturer	Model	Lamp	Description
D1	PRESCOLITE LIGHTING	LC6LED8-277-6LCLED9-40K (EM AS REQUIRED)	3000LM, 4000K, 42W LED, 277V	8-1/16"Hx6"DIA RECESSED DOWN LIGHT, CLEAR ALZAK SEMI-DIFFUSED REFLECTOR, WHITE FLANGE, DIMMING DRIVER
D2	PRESCOLITE LIGHTING	LC6LED-277-6LCLED5-40K-8 (EM AS REQUIRED)	1000LM, 4000K, 14W LED, 277V	7-3/4"Hx6"DIA LED LAMP, RECESSED DOWN LIGHT, CLEAR ALZAK SEMI-DIFFUSED REFLECTOR, WHITE FLANGE,
D3	PRESCOLITE LIGHTING	LC6LED8-277-6LCLED8-40K (EM AS REQUIRED)	2400LM, 4000K, 34W LED, 277V	8-1/16"Hx6"DIA RECESSED DOWN LIGHT, CLEAR ALZAK SEMI-DIFFUSED REFLECTOR, WHITE FLANGE, DIMMING DRIVER
EX1	DUAL-LITE	GCLED-U-WH-G2	LED	WALL MOUNTED EMERGENCY-EXIT COMBINATION UNIT WITH ADJUSTABLE EMERGENCY LIGHT BAR, WHITE THERMOPLASTIC HOUSING, UNIVERSAL MOUNTING, DIRECTIONAL ARROW KNOCKOUTS, GREEN LETTERS, SELF-TEST/SELF-DIAGNOSTICS.
EX3	DUAL-LITE	GCLED-U-WH-G2	LED	CEILING MOUNTED EMERGENCY-EXIT COMBINATION UNIT WITH ADJUSTABLE EMERGENCY LIGHT BAR, WHITE THERMOPLASTIC HOUSING, UIVERSAL MOUNTING, DIRECTIONAL ARROW KNOCKOUTS, GREEN LETTERS, SELF-TEST/SELF-DIAGNOSTICS.
GD2	PRESCOLITE LIGHTING	LC6LED-277-6LCLED5-40K-8 (EM AS REQUIRED)	1000LM, 4000K, 14W LED, 277V	7-3/4"Hx6"DIA LED LAMP, RECESSED DOWN LIGHT, CLEAR ALZAK SEMI-DIFFUSED REFLECTOR, WHITE FLANGE,
GEX1	DUAL-LITE	GCLED-U-WH-G2	LED	WALL MOUNTED EMERGENCY-EXIT COMBINATION UNIT WITH ADJUSTABLE EMERGENCY LIGHT BAR, WHITE THERMOPLASTIC HOUSING, UNIVERSAL MOUNTING, DIRECTIONAL ARROW KNOCKOUTS, GREEN LETTERS, SELF-TEST/SELF-DIAGNOSTICS.
GG1	COLUMBIA	LEPC24-40-ML-G-LL-ED-U	5000LM, 4000K, 45W LED 277V	2'x4' RECESSED GRID DIRECT/INDIRECT LED FIXTURE
GP16	AXIS LIGHTING	SLLED-B3-SL 0/100-1000-80-40-SM-16-16-W-UNV-D-2-*	1000LM/FT, 4000K, LED, 277V	16'Lx8.25"Wx1-3/8"H SLIM SURROUNDLITE DIRECT PENDANT, THIS FIXTURE IS DUAL SWITCHED FOR DAYLIGHT HARVESTING CONTROLS. PROVIDE MOUNTING HARDWARE COMPATABLE WITH THE CEILNG TYPE WHERE THE FIXTURE IS BEING INSALLED.
GP28	AXIS LIGHTING	SLLED-B3-SL 0/100-1000-80-40-SM-28-28-W-UNV-D-2-*	1000LM/FT, 4000K, LED, 277V	28'Lx8.25"Wx1-3/8"H SLIM SURROUNDLITE DIRECT PENDANT, THIS FIXTURE IS DUAL SWITCHED FOR DAYLIGHT HARVESTING CONTROLS. PROVIDE MOUNTING HARDWARE COMPATABLE WITH THE CEILNG TYPE WHERE THE FIXTURE IS BEING INSALLED.
GS1	COLUMBIA LIGHTING	LCL4-40-HL-E-U	6100LM, 4000K, 55W LED, 277V	4'L SURFACE-MOUNTED LED LIGHT WITH PRISMATIC ACRYLIC LENS.
GS2	RAB LIGHTING	VXBRLED13DG	729LM, 5000K, 13W LED	11-5/8"Hx8.5"D SURFACE WALL MOUNTED LED VAPOR TIGHT FIXUTRE WITH DIE CAST GUARD AND FROSTED GLOBE
GW8	AXIS LIGHTING	BWDLED-B3-MF-750-80-40-SO-8-W-UNV-D-1	6000LM, 4000K, 60W LED, 277V	8'L WALL MOUNTED LED DIRECT LIGHT, FROSTED ACRYLIC SNAP-IN LENS, EXTRUDED ALUMINUM HOUSING, SET TO ON/OFF NO DIMMING REQUIRED
P2	DELRAY LIGHTING INC.	AL2347-S-O-W35	3780LM, 3500K, 90CRI, 31W LED, 277V	13.5"Hx 6.5"DIA ASPECT GLASS PENDANT MOUNTED FIXTUE, SILVER FINISH, OPAL GLASS, STANDARD DIMMING DRIVER, VERIFY OVER HEIGHT WITH THE ARCHITECTURAL PLANS
P4	AXIS LIGHTING	SLLED-B3-SL 0/100-1000-80-40-SM-4-4-W-UNV-D-1-*	1000LM/FT, 4000K, LED, 277V	4'Lx8.25"Wx1-3/8"H SLIM SURROUNDLITE DIRECT PENDANT, PROVIDE MOUNTING HARDWARE COMPATABLE WITH THE CEILING TYPE WHERE THE FIXTURE IS BEING INSALLED.
P8	AXIS LIGHTING	SLLED-B3-SL 0/100-1000-80-40-SM-8-8-W-UNV-D-1-*	1000LM/FT, 4000K, LED, 277V	8'Lx8.25"Wx1-3/8"H SLIM SURROUNDLITE DIRECT PENDANT, PROVIDE MOUNTING HARDWARE COMPATABLE WITH THE CEILING TYPE WHERE THE FIXTURE IS BEING INSALLED.
P12	AXIS LIGHTING	SLLED-B3-SL 0/100-1000-80-40-SM-12-12-W-UNV-D-2-*	1000LM/FT, 4000K, LED, 277V	12'Lx8.25"Wx1-3/8"H SLIM SURROUNDLITE DIRECT PENDANT, THIS FIXTURE IS DUAL SWITCHED FOR DAYLIGHT HARVESTING CONTROLS. PROVIDE MOUNTING HARDWARE COMPATABLE WITH THE CEILNG TYPE WHERE THE FIXTURE IS BEING INSALLED.
P16	AXIS LIGHTING	SLLED-B3-SL 0/100-1000-80-40-SM-16-16-W-UNV-D-2-*	1000LM/FT, 4000K, LED, 277V	16'Lx8.25"Wx1-3/8"H SLIM SURROUNDLITE DIRECT PENDANT, THIS FIXTURE IS DUAL SWITCHED FOR DAYLIGHT HARVESTING CONTROLS. PROVIDE MOUNTING HARDWARE COMPATABLE WITH THE CEILNG TYPE WHERE THE FIXTURE IS BEING INSALLED.
P20	AXIS LIGHTING	SLLED-B3-SL 0/100-1000-80-40-SM-20-20-W-UNV-D-2-*	1000LM/FT, 4000K, LED, 277V	20'Lx8.25"Wx1-3/8"H SLIM SURROUNDLITE DIRECT PENDANT, THIS FIXTURE IS DUAL SWITCHED FOR DAYLIGHT HARVESTING CONTROLS. PROVIDE MOUNTING HARDWARE COMPATABLE WITH THE CEILNG TYPE WHERE THE FIXTURE IS BEING INSALLED.
P28	AXIS LIGHTING	SLLED-B3-SL 0/100-1000-80-40-SM-28-28-W-UNV-D-2-*	1000LM/FT, 4000K, LED, 277V	28'Lx8.25"Wx1-3/8"H SLIM SURROUNDLITE DIRECT PENDANT, THIS FIXTURE IS DUAL SWITCHED FOR DAYLIGHT HARVESTING CONTROLS. PROVIDE MOUNTING HARDWARE COMPATABLE WITH THE CEILNG TYPE WHERE THE FIXTURE IS BEING INSALLED.
W8	AXIS LIGHTING	BWDLED-B3-MF-750-80-40-SO-8-W-UNV-D-1	6000LM, 4000K, 60W LED, 277V	8'L WALL MOUNTED LED DIRECT LIGHT, FROSTED ACRYLIC SNAP-IN LENS, EXTRUDED ALUMINUM HOUSING, SET TO ON/OFF NO DIMMING REQUIRED
W12	AXIS LIGHTING	BWDLED-B3-MF-750-80-40-SO-12-W-UNV-D-1	9000LM, 4000K, 90W LED, 277V	12'L WALL MOUNTED LED DIRECT LIGHT, FROSTED ACRYLIC SNAP-IN LENS, EXTRUDED ALUMINUM HOUSING,

DAYLIGHT HARVESTING NOTES:

THE FOLLOWING IS UNDERSTOOD HOW THE CONTROLS FOR THE DAYLIGHT HARVESTING WILL WORK.

1. THE DAYLIGHTING SETPOINT IS NEVER MODIFIED AFTER INITIAL SETUP AND DAYLIGHTING SAVINGS ARE NOT ACHIEVED WHEN THE MANUAL DIMMER IS UTILIZED.
2. THE SYSTEM OPERATES IN "DAYLIGHTING MODE" WHENEVER THE MANUAL DIMMER HAS BEEN SET AT OR ABOVE THE DAYLIGHTING SYSTEM SETPOINT (FOOTCANDLES) ESTABLISHED DURING INSTALLATION AND PROGRAMMING.
3. THE USER HAS THE ABILITY TO DIM BELOW THE CURRENT DIMMING LEVEL, BUT CANNOT ADJUST THE LIGHTS ABOVE THAT SETTING.
4. THE DIMMER SWITCHES WILL INDICATE THE CURRENT DIMMING LEVEL THROUGH THE LED LIGHTS ALONG THE SIDE OF THE SWITCHES.
5. EXAMPLE: ASSUME THE SYSTEM WAS CALIBRATED TO 50FC AT THE DESKTOP AND THERE IS ENOUGH DAYLIGHT FOR THE LIGHTS TO BE AT 60% BRIGHTNESS. THE DIMMER SWITCH IS DIGITAL, AND WILL SHOW THE USER THAT THE LIGHTS ARE AT 60%.
6. IF THE USER TRIES TO ADJUST UP, NOTHING WILL HAPPEN. IF THE USER ADJUSTS IT DOWN, THE SYSTEM WILL GO INTO "MANUAL MODE". STAY AT THAT LEVEL AND STOP ADJUSTING FOR DAYLIGHT CHANGES.
7. IF THE USER THEN ADJUSTS BACK UP BEYOND 60%, THE SYSTEM WILL GO BACK INTO AUTOMATIC MODE AND ADJUST FOR DAYLIGHT CHANGES.
8. IF THE USER HAS THE SYSTEM IN "MANUAL MODE" (PREVIOUSLY DIMMED) AND THEN LEAVES THE ROOM TWO THINGS CAN HAPPEN:
   - 8.1. IF THEY LEAVE WITHOUT TOUCHING ANYTHING, THE OCCUPANCY SENSOR WILL SHUT THE LIGHTS OFF AND RESET THE SYSTEM TO AUTOMATIC DAYLIGHTING MODE. IN THIS CASE THE USER WOULD HAVE TO RE-ADJUST WHEN THEY RETURN.
   - 8.2. THE SECOND CASE IS THAT THE USER MANUALLY SHUTS THE LIGHTS OFF WHEN THEY LEAVE. THIS WOULD KEEP THE SYSTEM IN MANUAL MODE, AND IT WOULD REMEMBER THEIR PREVIOUSLY ADJUSTED DIMMING LEVEL WHEN THEY RETURN.

NOTE THAT THE MANUAL ON/OFF SWITCH IS PART OF THE DIMMER.

LIGHTING LEGEND

NOTES:
SYMBOLS SHOWN ARE STANDARD. VARIATION AND/OR COMBINATIONS MAY BE USED ON THE PLANS. THIS LIST SHOWS STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS; HOWEVER, WHEREVER THE SYMBOL ON THE PROJECT DRAWINGS OCCUR; THE ITEM SHALL BE PROVIDED AND INSTALLED.

A LOWER CASE LETTER NEXT TO LIGHT FIXTURE OR SWITCH INDICATES A SWITCH DESIGNATION.

AN UPPER CASE LETTER NEXT TO A SWITCH INDICATES THE TYPE OF SWITCH. SEE THE LIST BELOW

AN UPPER CASE LETTER NEXT TO A LIGHT FIXTURE INDICATES THE TYPE OF FIXTURE. REFER TO THE LUMINAIRE SCHEDULE FOR FIXTURE SPECIFICATIONS.

ELECTRICAL EQUIPMENT

- BRANCH CIRCUIT PANELBOARD
- LA-7 CIRCUITRY HOMERUN: PANEL LA - CIR. #7
- CONDUIT OR WIRE CONCEALED IN WALL/CLG.
- CONDUIT OR WIRE UNDERFLOOR/UNDERGND.
- J CEILING JUNCTION BOX - SURFACE/FLUSH
- J WALL JUNCTION BOX - SURFACE/FLUSH

SWITCHES

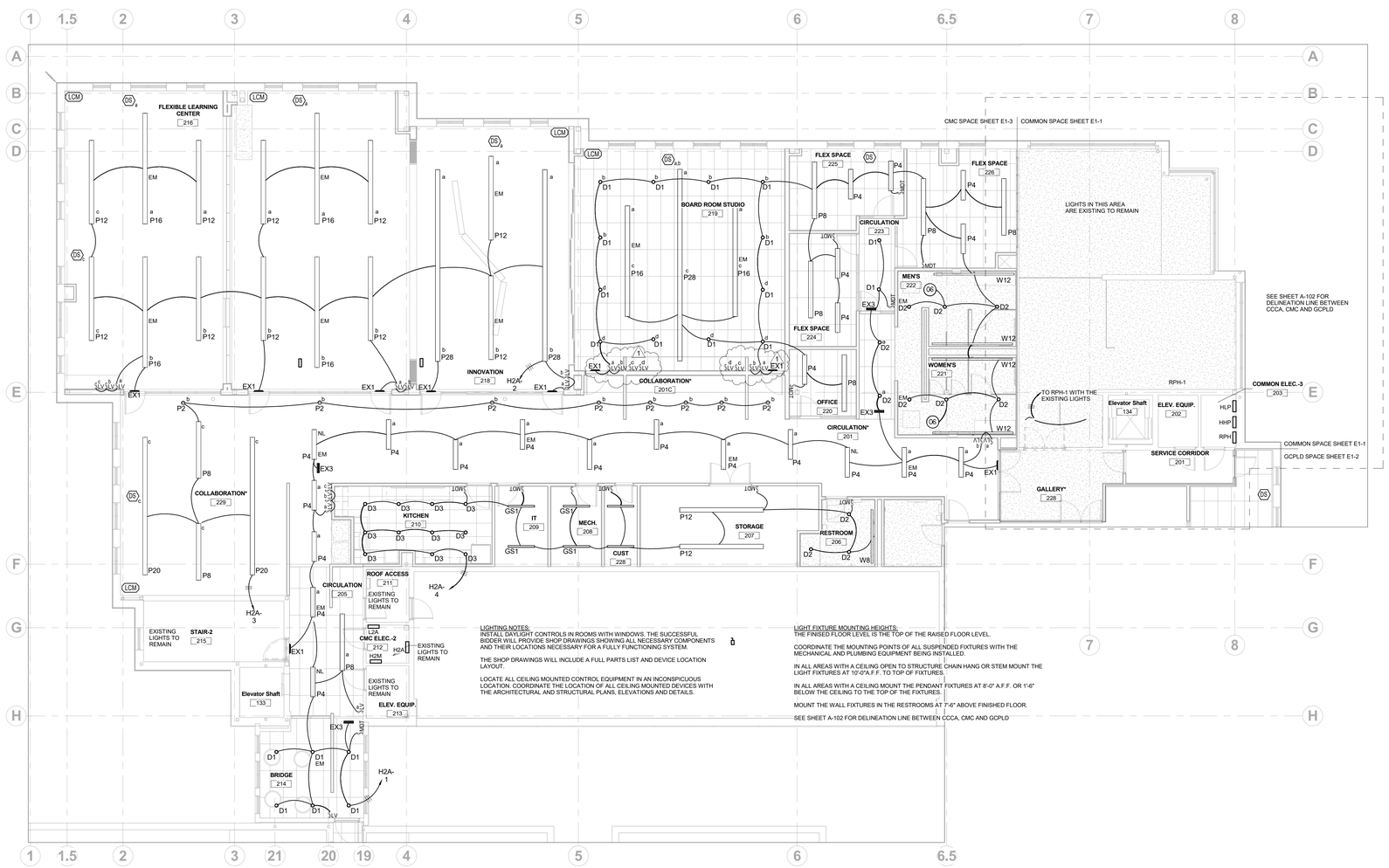
- SINGLE POLE SWITCH
- 2 TWO POLE SWITCH
- 3 THREE-WAY SWITCH
- 4 FOUR-WAY SWITCH
- DR DOOR ACTIVATED SWITCH
- TO MANUAL MOTOR STARTER
- K KEY OPERATED LIGHT SWITCH
- T TIMER SWITCH
- OS OCCUPANCY SENSOR LIGHT SWITCH
- MDT MOTION DETECTOR DUAL TECHNOLOGY
- DS a CEILING MOUNTED DUAL DAYLIGHT SENSOR, LOWER CASE LETTER CORRESPONDS TO A SWITCH
- LCM LIGHTING CONTROL MODULE
- OS CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
- D DIMMER SWITCH
- 3D 3 WAY DIMMER SWITCH
- LV LOW OR LINE VOLTAGE MANUAL ON/AUTO OFF DIMMING LIGHT SWITCH, TO WORK WITH DAYLIGHT HARVESTING AND 2015 ENERGY CODES
- LC LIGHTING CONTROL STATION

LIGHT FIXTURES

- A 1'x4' FLUORESCENT OR LED TROFFER FIXTURE TYPE A
- A 2'x4' FLUORESCENT OR LED TROFFER FIXTURE TYPE A
- A FLUORESCENT WALL BRACKET FIXTURE
- A WALL BRACKET LIGHT FIXTURE
- A OPEN STRIP FLUORESCENT FIXTURE
- A SURFACE CEILING MOUNTED FIXTURE
- EX2 DOUBLE FACE EXIT SIGN, WALL AND CEILING MOUNTED
- EX1 SINGLE FACE EXIT SIGN, WALL AND CEILING MOUNTED
- EM WALL MOUNTED EMERGENCY LIGHT
- EMR EMERGENCY HEAD REMOTE MOUNTED

ABBREVIATIONS

EF 1	MECHANICAL CONTRACTOR FURNISHED EQUIPMENT
5	DRAWING KEYED NOTE
ROOM 100	ROOM DESIGNATION
NL	NIGHT/SECURITY LIGHT - DO NOT SWITCH
WP	WEATHERPROOF
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
EM	EMERGENCY FUNCTION
44"	MOUNTING HEIGHT - A.F.F. OR A.F.G. TO C.L. HIGH



LIGHTING NOTES:
INSTALL DAYLIGHT CONTROLS IN ROOMS WITH WINDOWS. THE SUCCESSFUL BIDDER WILL PROVIDE SHOP DRAWINGS SHOWING ALL NECESSARY COMPONENTS AND THEIR LOCATIONS NECESSARY FOR A FULLY FUNCTIONING SYSTEM.

THE SHOP DRAWINGS WILL INCLUDE A FULL PARTS LIST AND DEVICE LOCATION LAYOUT.

LOCATE ALL CEILING MOUNTED CONTROL EQUIPMENT IN AN INCONSPICUOUS LOCATION. COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL AND STRUCTURAL PLANS, ELEVATIONS AND DETAILS.

LIGHT FIXTURE MOUNTING HEIGHTS:
THE FINISED FLOOR LEVEL IS THE TOP OF THE RAISED FLOOR LEVEL.

COORDINATE THE MOUNTING POINTS OF ALL SUSPENDED FIXTURES WITH THE MECHANICAL AND PLUMBING EQUIPMENT BEING INSTALLED.

IN ALL AREAS WITH A CEILING OPEN TO STRUCTURE CHAIN HANG OR STEM MOUNT THE LIGHT FIXTURES AT 10'-0"A.F.F. TO TOP OF FIXTURES.

IN ALL AREAS WITH A CEILING MOUNT THE PENDANT FIXTURES AT 8'-0" A.F.F. OR 1'-6" BELOW THE CEILING TO THE TOP OF THE FIXTURES.

MOUNT THE WALL FIXTURES IN THE RESTROOMS AT 7'-6" ABOVE FINISHED FLOOR.

SEE SHEET A-102 FOR DELINEATION LINE BETWEEN CCCA, CMC AND GCPLD

1 / E1-3 LIGHTING CMC - LEVEL 2
1/8" = 1'-0"

GENERAL LIGHTING NOTES:

LUMINAIRES:
1. LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE AND SHALL NOT BE SUPPORTED FROM THE T-BAR CEILING GRID.
2. THE ELECTRICAL CONTRACTOR IS TO CONFIRM THE LIGHT FIXTURES ORDERED WILL BE COMPATIBLE WITH THE CEILING TYPES AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING THE FIXTURES.
3. COORDINATE THE LOCATION OF LIGHTING EQUIPMENT INCLUDING BUT NOT LIMITED TO THE LUMINAIRES, SWITCHES AND CONTROL COMPONENTS WITH THE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ALL OTHER TRADES AS REQUIRED.
4. VERIFY LUMINAIRE MOUNTING REQUIREMENTS AND OVERALL HEIGHT OF ALL PENDANT MOUNTED FIXTURES PRIOR TO ORDERING.
5. ALL LIGHT FIXTURES NEED TO BE COMPATIBLE WITH THE SWITCHES AND CONTROLS BEING PROVIDED .
6. THE LIGHTING PACKAGE SHALL BE APPROVED BY BOTH ARCHITECTS AND ENGINEERS AS APPROVED EQUAL BEFORE BID. NO LIGHT FIXTURE SHALL BE ORDERED UNTIL THE LIGHT FIXTURE SUBMITTAL PACKAGE HAS BEEN APPROVED IN WRITING BY THE ARCHITECT, GENERAL CONTRACTOR AND ELECTRICAL ENGINEER.

EMERGENCY AND EXIT LIGHTS:
1. PROVIDE EMERGENCY AND EXIT SIGNS AS PER ALL LOCAL CODES.
2. ALL LIGHTING FIXTURES DENOTED WITH "EM" SHALL BE PROVIDED WITH AN ENGINEER APPROVED EMERGENCY LED DRIVER TO OPERATION THE FIXTURE IN AN EMERGENCY MODE TO MEET ALL CURRENT LOCAL CODES AND WILL BE CIRCUITED TO THE UNSWITCHED SIDE OF THE LIGHTING CIRCUIT.
3. REFER TO THE PLANS FOR THE NUMBER OF FACES REQUIRED AT EACH EXIT. FIELD ADJUST THE LOCATION OF THE EXIT SIGNS FOR THE BEST VISIBILITY POSSIBLE.
4. EXIT SIGNS CONNECTED TO A REMOTE EMERGENCY HEAD REQUIRES EXTRA BATTERY CAPACITY TO OPERATE THE REMOTELY LOCATED EMERGENCY HEAD FOR EGRESS AWAY FROM THE BUILDING.
5. ALL LIGHT FIXTURES DESIGNATED WITH "EM" OR SPECIFIED WITH AN EM FUNCTION SHALL BE PROVIDE WITH ONE OF THE FOLLOWING:
   INTEGRAL TEST SWITCH;
   REMOTE INFRARED HAND HELD DEVICE;
   INTEGRAL ELECTRONIC DEVICE THAT AUTOMATICALLY PERFORMS REQUIRED TESTS.
6. ALL REQUIRED EMERGENCY LIGHTS MAY NOT BE SHOWN ON THE PLANS AT THIS TIME.
7. ALL STAIRWELLS AND PATHS OF EGRESS TO THE EXTERIOR DOORS, AND THE EXTERIOR PATH OF EGRESS AWAY FROM THE BUILDING SHALL RECEIVE EMERGENCY LIGHTING PER CODE.

LIGHTING CONTROLS:
1. ALL LIGHTS IN; RESTROOMS, STORAGE CLOSETS, JANITORS CLOSETS AND STAIRWELLS ARE TO BE SWITCHED WITH A MOTION SENSOR ON/OFF SWITCH WITH A TIME DELAY. SET THE TIME DELAY LENGTH AS DIRECTED BY THE OWNER.
   EXCEPTION: IN AREAS WHERE THE SWITCH IS LOCATED OUTSIDE THE AREA THE LIGHT IS LOCATED IN.
2. FOR SPACES WHERE DAY LIGHT HARVESTING IS BEING UTILIZED. THE SUCCESSFUL BIDDER WILL PROVIDE SHOP DRAWINGS SHOWING A BILL OF MATERIALS, INSTALLATION DETAILS, ALL COMPONENTS AND THEIR LOCATIONS NECESSARY FOR A FULLY FUNCTIONING SYSTEM.

GENERAL NOTES:
1. FIELD COORDINATION DURING CONSTRUCTION IS IMPERATIVE. CONTRACTORS BIDDING THIS WORK MUST MAKE REASONABLE ALLOWANCES FOR UNFORESEEN CONTINGENCIES.

WIRING:
1. ALL WIRE IS TO BE #12 UNLESS NOTED OTHERWISE.
2. ALL BRANCH CIRCUITS WITH HOME RUNS OVER 50 FEET, WILL BE SIZED ONE SIZE LARGER.
3. ALL ELECTRICAL WORK TO COMPLY WITH LATEST EDITION OF THE NEC AND ALL APPLICABLE LOCAL CODES.
4. ALL WIRING IS SHOWN DIAGRAMMATICALLY ON DRAWING, FIELD VERIFY ALL CONDITIONS PRIOR TO ROUGH-IN.

Colorado Mountain College

PROJECT DESCRIPTION

Delta	Description	Date Issued
1	ADDENDUM #002	9/8/16

HUMPHRIES POLI ARCHITECTS

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Architect as instruments of service shall remain the property of the Architect. The Architect shall retain all common law, statutory and other reserved rights, including copyright thereto.

LIGHTING PLAN - CMC

BIDDING/PERMIT SET
8/01/2016

PROJECT No.	PROJECT ARCH	PROJECT MNGR	CHECKED BY
16-001	Approver	Designer	Checker

SHEET No.

E1-3

9/9/2016 1:50:34 PM