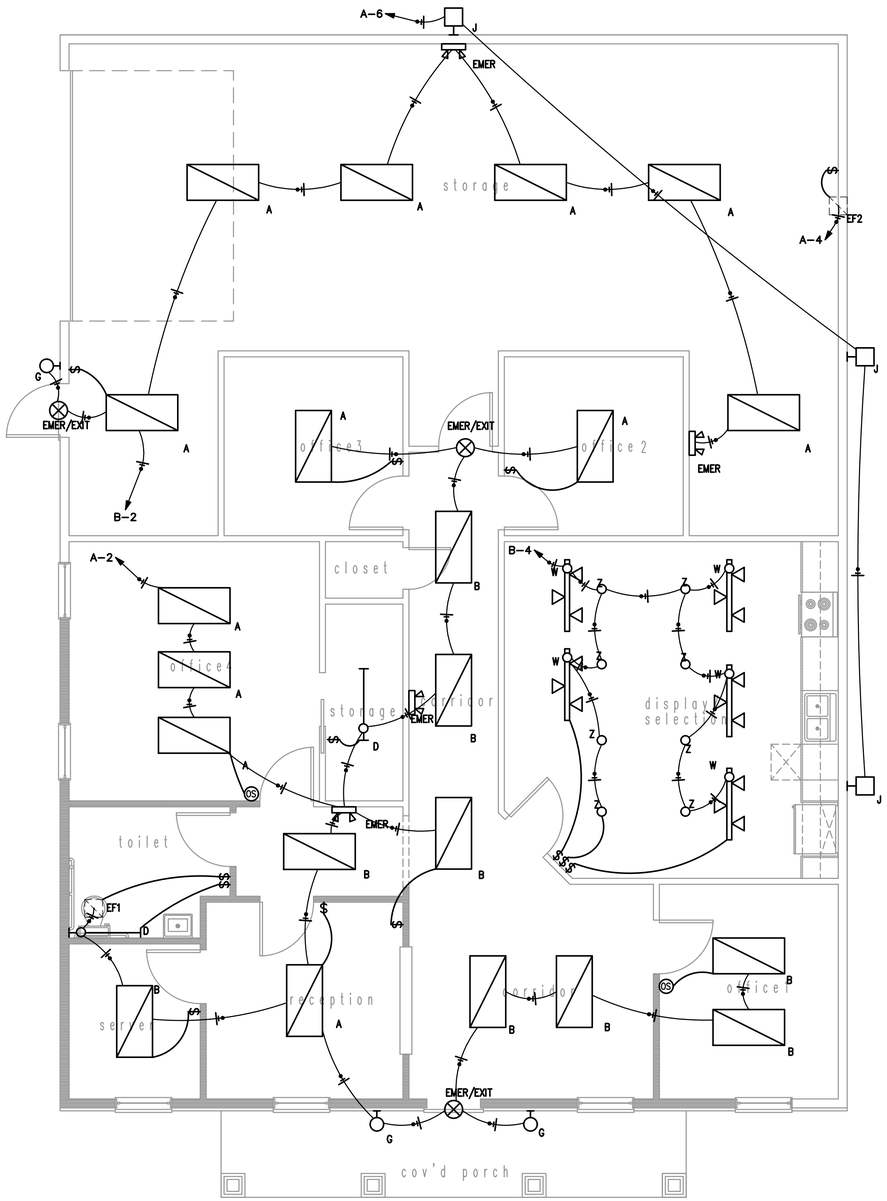

1 / E2 LIGHTING PLAN
1/4"–1'

OS BRYANT (HUBBELL) MSD1000W1 OR EQUAL WALL SWITCH OCCUPANCY SENSOR
DUAL (ULTRASONIC AND PASSIVE INFRARED) TECHNOLOGY
1,000 SQUARE FOOT COVERAGE
800W INCANDESCENT, 1000W FLUORESCENT AT 120V AC

2012 North Carolina Energy Conservation Code

Commercial Energy Efficiency – Electrical Summary

THIS SECTION REQUIRED FOR ALL PROJECTS THAT INCLUDE ELECTRICAL DESIGN

501.1 METHOD OF COMPLIANCE ☐ NC SPECIFIC COMCHECK PROVIDED

X 2012 NCECC CHAPTER 5 ☐ 20% IMPROVEMENT OVER ASHRAE 901.-2007

501.2 APPLICATION COMPLIANCE

☐ 506.2.1 EFFICIENCT MECH EQUIPMENT ☐ 506.2.4 HI EFFICIENCY DOMESTIC HW

X 506.2.2 REDUCED LTG DENSITY ☐ 506.2.5 ONSITE RENEWABLE ENERGY

☐ 506.2.3 ENERGY RECOVERY SYSTEMS ☐ 506.2.6 DAYLIGHTING CONTROLS

505.2 INTERIOR LIGHTING CONTROLS (MANDATORY REQUIREMENTS)

X INTERIOR LIGHTING SYSTEMS ARE PROVIDED WITH CONTROLS AS REQUIRED PER SECTION 505.2, EXCEPT WHERE EXEMPTED.

505.3– TANDEM WIRING (MANDATORY REQUIREMENTS)

X FLUORESCENT LUMINARIES LOCATED WITHIN THE SAME AREA ARE TANDEM WIRED AS REQUIRED PER SECTION 505.3, EXCEPT WHERE EXEMPTED.

505.4– EXIT SIGNS (MANDATORY REQUIREMENTS)

X INTERNALLY ILLUMINATED EXIT SIGNS DO NOT EXCEED 5 WATTS PER SIDE.

505.5– INTERIOR LIGHTING POWER REQUIREMENTS (PRESCRIPTIVE) (NON-EXEMPT)

505.5.1 – TOTAL CONNECTED INTERIOR LIGHTING POWER:
1646.8 WATTS SPECIFIED
_____ % REDUCTION OF SPECIFIED VS. ALLOWED

505.5.2 – TOTAL ALLOWED INTERIOR LIGHTING POWER:
METHOD OF COMPLIANCE:

X BUILDING AREA METHOD ☐ SPACE-BY-SPACE METHOD

1966 WATTS ALLOWED

505.6.1 – EXTERIOR BUILDING GROUNDS LIGHTING:

☐ LAMPS OPERATING AT GREATER THAN 100 WATTS FOR EXTERIOR BUILDING GROUNDS LUMINAIRIES HAVE A MINIMUM EFFICIENCY OF 60 LUMENS PER WATT.

505.6.2 – EXTERIOR BUILDING LIGHTING POWER (NON-EXEMPT)

505.6.2 – TOTAL CONNECTED EXTERIOR LIGHTING POWER:
_____ WATTS SPECIFIED

505.6.2 – TOTAL ALLOWED EXTERIOR LIGHTING POWER:
_____ WATTS ALLOWED

505.6.3 – SHIELDING OF EXTERIOR BUILDING LIGHTING FIXTURES:

X ONLY FULLY SHEILDED EXTERIOR BUILDING LIGHTING FIXTURES ARE PROVIDED, EXCEPT WHERE EXEMPTED.

☐ ALTERNATIVE EXTERIOR BUILDING LIGHTING FIXTURES ARE PROVIDED FOR GREATER ENERGY EFFICIENCY OVER FULLY SHIELDED EXTERIOR BUILDING LIGHTING FIXTURES.

505.7 – ELECTRICAL ENERGY CONSUMPTION (DWELLING UNITS):

☐ SEPARATE TENANT METERING TO DETERMINE ELECTRICAL ENERGY CONSUMPTION HAS BEEN PROVIDED FOR BUILDINGS HAVING INDIVIDUAL DWELLING UNITS.

SIGNED: _____

NAME: Christopher Locklear

TITLE: Engineer

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS
A		(1) LED	LAW Led Low Profile Wraparound, Wraps4' Low Profile LED WraparoundData Scaled from Test# 17.00698	ELECTRONIC	CEILING	COLUMBIA LIGHTING, LAW4–40VL–EU	58.3	120V 1P 2W
B		(1) LED	LAW Led Low Profile Wraparound, Wraps2' Low Profile LED WraparoundData Scaled from Test# 17.00935	ELECTRONIC	CEILING	COLUMBIA LIGHTING, LAW2–40LW–EU	24.1	120V 1P 2W
D		(1) 32W ONE F032	22–P–D–04–SGL–Cx–T8	ELECTRONIC	SURFACE	LITECONTROL CORPORATION, 22–P–D–04–SGL–Cx–T8	34	120V 1P 2W
EF1	.	(1)	EXHAUST FAN		CEILING		15.6	120V 1P 2W
EF2	.	(1)	EXHAUST FAN		CEILING		480	120V 1P 2W
EMER		(2) 1.5W LED	EMER. LIGHT W/1.5 HR NI–CAD BATTERY	ELECTRONIC	WALL/CEILING	LITHONIA ELM2–LED	3	120V 1P 2W
EMER/EXIT		(2) 1.5W LED	COMBINATION EXIT/EMERGENCY UNIT WITH SEALED BEAM DUAL REMOTE HEADS	ELECTRONIC	WALL/CEILING	LITHONIA LHQM S W 1 R 120/277 ELA NX H0606	3	120V 1P 2W
G		(1)	WALL BRACKET FIXTURE		WALL	PROGRESS P5862–31 OR EQ.	60	120V 1P 2W
J		(1) 17W	PVL3	ELECTRONIC	WALL	HUBBELL OUTDOOR LIGHTING, PVL3–180L4K–U–DB	73.1	120V 1P 2W
W		(1)		ELECTRONIC	CEILING	TRACK LIGHT WITH LED LAMPS MAX 20W EA (60W TOTAL)	60	120V 1P 2W
Z		(1)		ELECTRONIC	CEILING	LED CAN LIGHT 13W	13	120V 1P 2W

11-27-18

NORTH CAROLINA PROFESSIONAL SEAL 20193 ENGINEER CHRISTOPHER S. LOCKLEAR

Coastal Plains Engineering, P.A.
FIRM # C-2059
295 Locklear Rd
P.O. Box 1117
Pembroke, NC 28372
Voice: 910-521-7213
www.coastalplainseng.com

ROBERT CHARLES EVANS ARCHITECT
ARCHITECTURE
545 Pearl Street Fayetteville North Carolina 28303

Mohler Homes, Inc.
Office Building

Drawing Name:
LIGHTING PLAN

Project Name:
An Office Building for
Mohler Homes, Inc.

Project Location:
Lot 5, Comm Park Lane
Angier
North Carolina

PROJECT NO:	18–128
DRAWN BY:	SLL
DATE:	11.27.18
REVISIONS:	

SHEET NO: E2