ELECTRICAL LEGEND

SYM	MNFR	CATALOG #	DESCRIPTION
$M	LUTRON	MS-OPS6M-DV-XX	MAESTRO IN-WALL SENSOR WITH SWITCH – SINGLE POLE SWITCH WITH OCCUPANCY/VACANCY SENSOR, 120V/277V, 6A LIGHTING, 3A FAN (1/10 HP MOTOR, 120V ONLY), COLOR SELECTION BY OWNER, MOUNT 46" AFF TO TOP OF PLATE
$MD	LUTRON		MAESTRO IN-WALL SENSOR WITH SWITCH WITH DIMMING, COLOR SELECTION BY OWNER
$D			DIMMER SWITCH, COMPATIBLE WITH LED LIGHTS, COLOR SELECTION BY OWNER
$	LEVITON	1221-XX	20 AMP, 125V, SINGLE POLE SWITCH , NYLON HANDLE, PLASTIC COVER PLATE, COLOR SELECTION BY OWNER, MOUNT 46" ABOVE FLOOR TO TOP OF PLATE
$3	LEVITON	1223-XX	20 AMP, 125V, THREE WAY SWITCH, NYLON HANDLE, PLASTIC COVER PLATE, COLOR SELECTION BY OWNER, MOUNT 46" ABOVE FLOOR TO TOP OF PLATE
OS	LUTRON	LRF2-OCR2B-P-XX	RADIO POWER SAVR WIRELESS SENSOR, 360° CEILING MOUNT OCCUPANCY/VACANCY SENSOR, 3.572 DIAMETER, COLOR SELECTION BY OWNER
OS	LUTRON		HALLWAY TYPE OCCUPANCY SENSOR, COLOR SELECTION BY OWNER
PP			POWER PACK
	LEVITON	5362-XX	DUPLEX RECEPTACLE, 20 AMP, 125V, W/PLASTIC COVER PLATE, COLOR SELECTION OF DEVICE AND PLATE BY OWNER, MOUNTING HEIGHT TO CENTER OF PLATE – 18" AFF UNLESS NOTED OTHERWISE ON DRAWINGS
	LEVITON	5362-XX	DUPLEX RECEPTACLE, 20 AMP, SAME AS RECEPTACLE ABOVE EXCEPT MOUNTED 42" AFF
	LEVITON	5362-XX	TWO DUPLEX RECEPTACLES, 20 AMP, MOUNTED IN DOUBLE GANG BOX
GF	LEVITON	GF-5362-XX	DUPLEX GROUND FAULT INDICATED RECEPTACLE, 20 AMP, 125V, W/PLASTIC COVER PLATE, COLOR SELECTION OF DEVICE AND PLATE BY OWNER, MOUNTING HEIGHT TO CENTER OF PLATE – 18" AFF UNLESS NOTED OTHERWISE ON DRAWINGS
WP	LEVITON	5977-CL	CLEAR WEATHER PROOF VERTICAL RAINTIGHT WHILE IN USE RECEPTACLE COVER
AFF			ABOVE FINISHED FLOOR
US			INDICATES UNSWITCHED LIGHT FIXTURE
+XX			INDICATES HEIGHT IN INCHES ABOVE FINISHED FLOOR
CLG			INDICATES CEILING MOUNTED DEVICE
Z X	REFER TO LIGHT FIXTURE SCHEDULE		LIGHT FIXTURE – DOWNLIGHT
Z X	REFER TO LIGHT FIXTURE SCHEDULE		LIGHT FIXTURE – 2x4
Z X	REFER TO LIGHT FIXTURE SCHEDULE		LIGHT FIXTURE
	REFER TO LIGHT FIXTURE SCHEDULE		EXIT SIGN, SHADING INDICATES FACE ORIENTATION
	REFER TO LIGHT FIXTURE SCHEDULE		COMBINATION EXIT SIGN/BATTERY LIGHT
	REFER TO LIGHT FIXTURE SCHEDULE		EMERGENCY BATTERY LIGHT
	REFER TO LIGHT FIXTURE SCHEDULE		REMOTE HEAD
	SQUARE D		HEAVY DUTY FUSED SAFETY SWITCH, SIZE FUSES AS REQUIRED, USE NEMA 1 ENCLOSURES FOR INDOOR APPLICATIONS AND NEMA 3R FOR OUTDOOR APPLICATIONS
F			EXHAUST FAN BY MECHANICAL CONTRACTOR
J			JUNCTION BOX
TV			TELEVISION OUTLET – VERIFY LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION, E.C. TO PROVIDE BOX AND CONDUIT ONLY
▽			COMMUNICATIONS OUTLET, E.C. TO PROVIDE BOX AND CONDUIT ONLY
KP			KEY PAD – E.C. TO PROVIDE BOX AND CONDUIT ONLY
DC			DOOR CONTACT – E.C. TO PROVIDE BOX AND CONDUIT ONLY
EL			ELECTRIC DOOR STRIKE, E.C. TO PROVIDE BOX AND CONDUIT & 120V POWER
SD			CEILING MOUNTED SMOKE DETECTOR
DH			MAGNETIC DOOR HOLDER
			PANELBOARD – SEE SCHEDULE FOR TYPE & A.I.C RATINGS
			ELECTRICAL RACEWAY
			HOMERUN TO PANEL BOARD
			LOW VOLTAGE LIGHTING CONTROL CABLING FOR OCCUPANCY SENSORS

PRODUCT NAMES AND CATALOG NUMBERS ARE FOR REFERENCE. EQUALS ARE ACCEPTABLE.

1 / E1 ELECTRICAL LEGEND
SCALE: NONE

ELECTRICAL SYSTEM AND EQUIPMENT
METHOD OF COMPLIANCE

Energy Code: ☐ PRESCRIPTIVE ☒ PERFORMANCE
ASHRAE 90.1: ☐ PRESCRIPTIVE ☐ PERFORMANCE

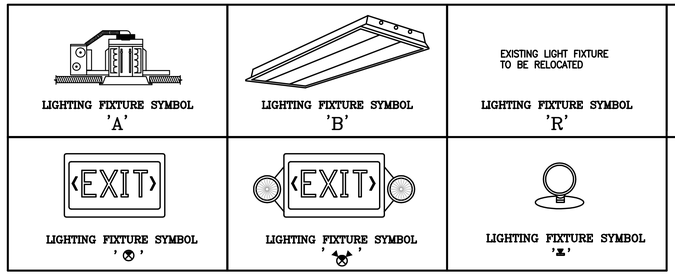
LIGHTING SCHEDULE
lamp type required in fixture: See Lighting Schedule On Dwg. E1
number of lamps in fixture:
ballast type used in the fixture:
number of ballast in fixture:
total wattage per fixture:
total interior wattage specified vs allowed (whole building or space by space): 1,003 W VS 1,386 W
total exterior wattage specified vs allowed: 26 W VS 60 W

ADDITIONAL PRESCRIPTIVE COMPLIANCE
☐ 506.2.1 More Efficient Mechanical Equipment
☒ 506.2.2 Reduced Lighting Power Density
☐ 506.2.3 Energy Recovery Ventilation Systems
☐ 506.2.4 Higher Efficiency Service Water Heating
☐ 506.2.5 On-Site Supply of Renewable Energy
☐ 506.2.6 Automatic Daylighting Control Systems

DESIGNER STATEMENT:
To the best of my knowledge and belief, the design of this building complies with the thermal envelope requirements of the North Carolina State Building Code, 2012 Energy Conservation Code.

NAME: DAVID S. SMITH
TITLE: ELECTRICAL ENGINEER

3 / E1 ENERGY CODE
SCALE: NONE



LIGHTING FIXTURE SCHEDULE

SYM	MNFR.	CATALOG #	LAMP NO.	LAMP TYPE	BALLAST NO.	BALLAST TYPE	VOLT-AMPS	VOLTAGE	MTD HEIGHT	DESCRIPTION
A	ACUITY BRANDS – LITHONIA HUBBELL – PRESCOLITE EATON – PORTFOLIO	ICO 35/20 6AR LSS 55D 120 EZB EQUAL EQUAL	–	LED 2000 LUMENS 85 CRI, 3500K	–	–	26 VA	120 V	MTD IN LAY-IN CEILING	6" LED DOWNLIGHT, TRIM RING W/CLEAR FINISH, SEMI-SPECULAR CLEAR FINISH, 55° BEAM ANGLE, LISTED WET LOCATION FOR COVERED CEILINGS, 0-10V DIMMABLE DRIVER, MINIMUM DIMMING LEVEL 1%
B	ACUITY BRANDS – LITHONIA HUBBELL – PRESCOLITE EATON – PORTFOLIO	2VTL4 ADP 40L EZ1 L835 EQUAL EQUAL	–	LED 4000 LUMENS 85 CRI, 3500K	–	–	39 VA	120/277 M VOLT	MTD IN LAY-IN CEILING	VOLUMETRIC 2x4 LED TROFFER, STEEL W/WHITE FINISH, ACRYLIC LINEAR PRISMATIC DIFFUSER, 0-10V DIMMABLE DRIVER, MINIMUM DIMMING LEVEL 1%
R	R INDICATES AN EXISTING LIGHT FIXTURE THAT IS BE RELOCATED.		2	INCANDESCANT 100W A-19	–	–	200 VA	120 V	WALL MOUNTED ABOVE MIRROR	LIGHT FIXTURE CURRENTLY MOUNTED ABOVE MIRROR IN TOILET #3. TAKE DOWN FIXTURE, CLEAN AND RELAMP AND REINSTALL OVER NEW LOCATION OF MIRROR. FOR ALTERNATE #1 ONLY.
	ACUITY BRANDS – LITHONIA HUBBELL – DUAL-LITE EATON – SURE-LITES	ELM2 EQUAL EQUAL	2	5.4 W KRYPTON LAMP	–	–	12 VA	120/277 DUAL	MOUNT TO WALL 7'-6" AFF	EMERGENCY BATTERY LIGHT, 6 VOLT, (2) 5.4 W KRYPTON LAMPS, HIGH IMPACT THERMOPLASTIC HOUSING, FINISH WHITE, MAINTENANCE-FREE LEAD-CALCIUM BATTERY
	ACUITY BRANDS – LITHONIA HUBBELL – DUAL-LITE EATON – SURE-LITES	LQM S W 3 G 120/277 EL N EQUAL EQUAL	–	LED	–	–	0.62	120/277 DUAL	MOUNT TO CEILING OR WALL ABOVE DOOR FRAME	SINGLE FACE EXIT SIGN W/ EXTRA FACEPLATE FOR CONVERSION TO DOUBLE FACE, LED, GREEN LETTERS, UNIVERSAL MOUNTING, KNOCK-OUT DIRECTIONAL INDICATORS, WHITE THERMOPLASTIC HOUSING, DUAL VOLTAGE, EMERGENCY NICKEL CADMIUM BATTERY
	ACUITY BRANDS – LITHONIA HUBBELL – DUAL-LITE EATON – SURE-LITES	LHQM LED G EQUAL EQUAL	–	LED	–	–	0.62 (2) 1.5W LED LAMPS	120/277 DUAL	MOUNT TO CEILING OR WALL ABOVE DOOR FRAME	LED SINGLE FACE COMBINATION EXIT SIGN/BATTERY LIGHT, WHITE GREEN LETTERS, UNIVERSAL MOUNTING, KNOCK-OUT DIRECTIONAL INDICATORS, WHITE THERMOPLASTIC HOUSING, DUAL VOLTAGE, EMERGENCY NICKEL CADMIUM BATTERY
	ACUITY BRANDS – LITHONIA HUBBELL – DUAL-LITE EATON – SURE-LITES	ELA LED WP	1	1.0W LED	–	–	1.0	120/277 DUAL	MOUNT ABOVE EXTERIOR DOOR FRAME	SINGLE REMOTE LED HEAD, WEATHERPROOF NOTE: REMOTE HEAD WILL BE OFF DURING NORMAL OPERATION, WILL BE ACTIVATED BY POWER FAILURE

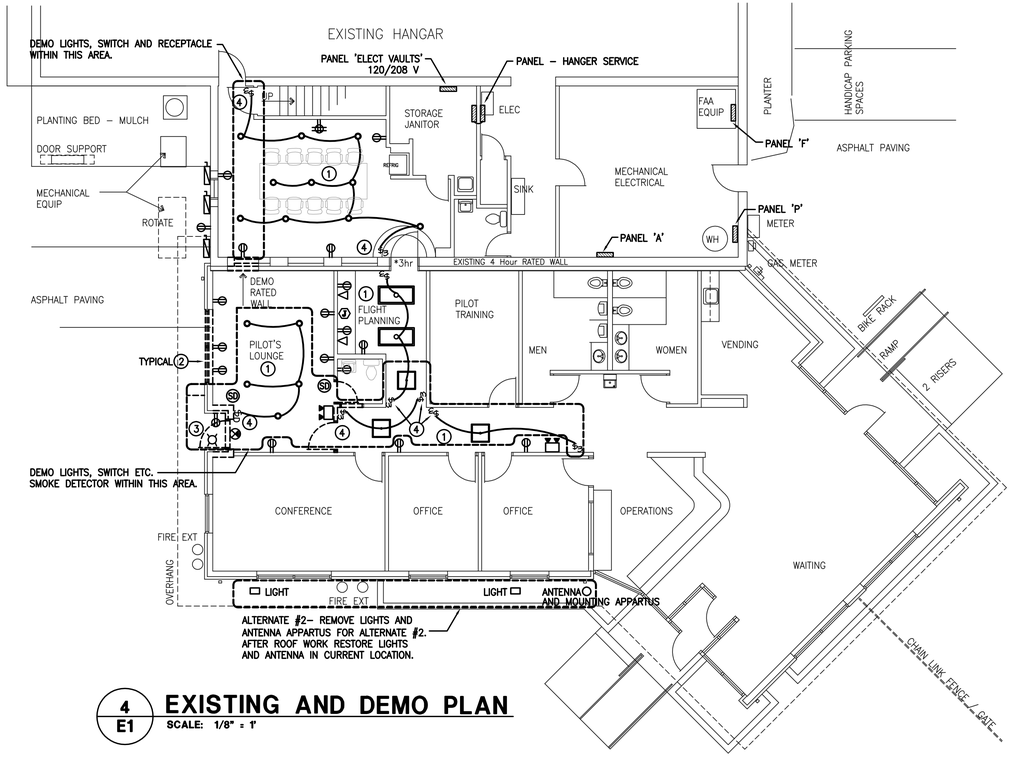
2 / E1 LIGHT FIXTURE SCHEDULE
SCALE: NONE

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ◯)

1. DEMOLISH EXISTING LIGHT FIXTURES SHOWN IN ROOM. PRESERVE LIGHTING CIRCUIT IN ROOM FOR CONNECTION TO NEW LIGHT FIXTURES TO BE INSTALLED IN THE AREA.
2. DASHED LINE INDICATES WALL OR OTHER STRUCTURAL ELEMENT TO BE DEMOLISHED BY THE GENERAL CONTRACTOR. E.C. SHALL REMOVE ALL ELECTRICAL DEVICES FROM DEMOLISHED WALLS. REROUTE WIRING AS REQUIRED TO MAINTAIN ALL ELECTRICAL CONNECTIONS TO UNDEMOLISHED ELECTRICAL DEVICES (TYPICAL).
3. DEMOLISH EXTERIOR LIGHT AND RECEPTACLE.
4. DEMOLISH LIGHT SWITCH. REMOVE BOX – PATCH AND REPAIR.

GENERAL DEMOLITION NOTES

1. ALL SALVAGEABLE EQUIPMENT AND MATERIALS SUBJECT TO DEMOLITION SHALL BE OFFERED TO THE OWNER. ALL SALVAGEABLE EQUIPMENT AND MATERIALS DECLINED BY THE OWNER SHALL BE PROPERLY DISPOSED OF BY THE ELECTRICAL CONTRACTOR.
2. ALL UNSALVAGEABLE DEMOLISHED EQUIPMENT AND MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE ELECTRICAL CONTRACTOR.
3. DISCONNECTION OF ALL ELECTRIC MOTORS SHALL BE BY THE ELECTRICAL CONTRACTOR.
4. ELECTRICAL CONTRACTOR SHALL TAKE STEPS TO PROTECT EXISTING FINISHES FROM DAMAGE AND SHALL BE RESPONSIBLE FOR DAMAGE REPAIR.
5. ELECTRICAL CONTRACTOR SHALL VERIFY ALL CIRCUITS PRIOR TO BEGINNING DEMOLITION.
6. DURING CONSTRUCTION PHASE E.C. IS RESPONSIBLE FOR MAINTAINING UNINTERRUPTED POWER, SECURITY AND COMMUNICATIONS CONNECTIONS TO ELECTRICAL DEVICES IN AREAS NOT UNDER CONSTRUCTION. E.C. SHALL REROUTE WIRING AND CABLING AS REQUIRED.
7. ELECTRICAL CONTRACTOR SHALL DEMOLISH ALL ABANDONED WIRING AND ALL ACCESSIBLE ABANDONED CONDUIT. ABANDONED HOMERUNS SHALL BE DEMOLISHED TO PANEL AND BREAKERS SPARED.
8. E.C. SHALL PROVIDE BLANK COVER PLATES FOR ABANDONED RECESSED JUNCTION BOXES ON EXISTING WALLS. E.C. SHALL DEMOLISH ALL SURFACE MOUNTED ABANDONED JUNCTION BOXES.
9. IT IS THE INTENT OF THIS DRAWING TO ILLUSTRATE EQUIPMENT AND MATERIALS TO BE REMOVED UNDER THIS CONTRACT. SHOULD ANY ITEM BE INADVERTENTLY OMITTED IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REMOVE THIS ITEM(S) AT NO ADDITIONAL COST TO THE OWNER.



4 / E1 EXISTING AND DEMO PLAN
SCALE: 1/8" = 1'

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PUBLICATION OR REUSE OF THESE DRAWINGS OR ANY DETAILS THEREFROM MUST BE WITH THE WRITTEN CONSENT OF THE ARCHITECT

ELECTRICAL SCHEDULES
ENERGY CODE

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ROWAN COUNTY AIRPORT TERMINAL
EXPANSION

DESIGN ENGINEERING, INC. PROFESSIONAL ENGINEERING C-657 NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL 11207 ENGINEER 8/20/17 DAVID S. SMITH

MCB DRAWN BY
DSS CHECKED BY
APRIL 2017 DATE
COMM. NO.

SHEET NO. E1 OF 4