

WIRING DEVICE SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	HOMERUN TO LIGHTING SERVICE PANEL. HOMERUN INDICATES PANEL NAME AND CIRCUIT NUMBER OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT 1" UNDERGROUND UNLESS NOTED OTHERWISE. HOMERUNS MAY BE COMBINED INTO A COMMON RACEWAY FOR 20A SINGLE PHASE CIRCUITS ONLY IF DEDICATED. NEUTRALS ARE USED OR HANDLE TIES ARE PROVIDED ON CIRCUIT BREAKERS TO SMALL TANGUOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SAME TIME. MAXIMUM OF (6) #12 AWG CURRENT CARRYING CONDUCTORS SHALL BE PROVIDED IN RACEWAY. COMPLY WITH NEC FOR CONDUCTOR DERATING AND CONDUIT FILL.
	CONDUIT STUB
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR
	ELECTRICAL CONNECTION TO EQUIPMENT ITEM E 101 LETTER DESIGNATION AS APPLICABLE - SEE CORRESPONDING EQUIPMENT CONNECTION SCHEDULE
	DUPLEX RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R.
	DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER. UNO. NEMA 5-20R.
	DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER. UNO. NEMA 5-20R.
	DUPLEX RECEPTACLE - CEILING MOUNTED. NEMA 5-20R.
	DUPLEX RECEPTACLE - FLOOR MOUNTED. NEMA 5-20R.
	SINGLE RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R.
	FOR RECEPTACLES ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: GF1 - GROUND FAULT DEVICE IG - ISOLATED GROUND USB - DEVICE WITH USB PORT WP - WEATHERPROOF CR - CORD REEL
	SPECIAL PURPOSE RECEPTACLE - HEIGHT AND TYPE AS NOTED ON DRAWINGS
	SURFACE RACEWAY
	JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	JUNCTION BOX - FLOOR MOUNTED. SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	VERTICAL SERVICE POLE
	COMBINATION IN FLOOR POWER / DATA / AV DEVICE
	PUSHBUTTON
	MOTOR. SEE DRAWINGS FOR DESCRIPTION
	SAFETY DISCONNECT SWITCH. "3P" INDICATES AMP RATING. "3P" INDICATES NUMBER OF POLES. "20" INDICATES FUSE SIZE. "1" INDICATES NEMA ENCLOSURE RATING (1, 3R, 4X, ETC). HEAVY DUTY SAFETY SWITCH UNLESS NOTED OTHERWISE. "NF" INDICATES NON-FUSED.
	COMBINATION MOTOR STARTER
	MOTOR STARTER
	DOOR BELL

FIRE ALARM SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER, UNO
	FIRE ALARM CONTROL PANEL - WALL MOUNTED AT 72" AFF TO TOP, UNO
	FIRE ALARM TERMINAL CABINET - WALL MOUNTED AT 72" AFF TO TOP, UNO
	FIRE ALARM PULL STATION AT 44" AFF. UNO
	FIRE ALARM VISUAL DEVICE. ROUGH-IN SUCH THAT BOTTOM OF LENS IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
	FIRE ALARM AUDIOVISUAL DEVICE. ROUGH-IN SUCH THAT BOTTOM OF VISUAL LENS IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
	FIRE ALARM HORN AUDIO DEVICE. ROUGH-IN SUCH THAT BOTTOM OF DEVICE IS NO LESS THAN 80" AFF. "C" SUBSCRIPT INDICATES CEILING MOUNTED.
	FIRE ALARM SYSTEM BELL
	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED, UNO
	FIRE ALARM SMOKE DUCT DETECTOR
	REMOTE TEST STATION FOR FA DUCT DETECTOR
	TAMPER SWITCH
	FLOW SWITCH
	HEAT DETECTOR
	CO DETECTOR
	MAGNETIC DOOR HOLDER, AT 72" AFF UNO
	MOTORIZED SMOKE DAMPER
	FA SMOKE DAMPER

DISTRIBUTION SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	ELECTRICAL PANEL, SURFACE MOUNTED.
	ELECTRICAL PANEL, FLUSH MOUNTED.
	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH

ABBREVIATIONS	
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ACH	ABOVE COUNTER HEIGHT
AL	ALUMINUM
BKR	BREAKER
CU	COPPER
CKT	CIRCUIT
DWG	DRAWING
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
FLA	FULL LOAD AMPS
FU	FUSE
FWE	FURNISHED WITH EQUIPMENT
GC	GENERAL CONTRACTOR
GF/GFCI	GROUND FAULT INTERRUPTER DEVICE
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
LRA	LOCKED ROPE CLIPS
LTC	LIGHTING TRIGGER
MCA	MINIMUM CIRCUIT CAPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HOUSING
MLO	METAL LUG ONLY
MOCP	MOTOR OVERCURRENT PROTECTION
MSB	MULTI-PHASE STANDARD
NL	NIGHT LIGHT
NOT IN CON	NOT IN CONDUIT TO SCALE
PL	PLASTER
RCF	RECEPTACLE
RCU	RECEPTACLE UNIT
RTU	RECEPTACLE UNIT
SP	SAFETY PROTECTED DEVICE
SW	SWITCH
UGND	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
WI	WITH
WH	WATER HEATER
WP	WEATHER PROOF
XFR	TRANSFORMER

LIGHTING & CONTROL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	20A SWITCH AT 44" CL AFF, UNO FOR SWITCH ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: D - DIMMER M - MOTOR RATED P - PLOT LIGHT 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH O - OCCUPANCY SENSOR V - VACANCY SENSOR K - KEYSWITCH
	TWO SWITCHES IN COMMON BOX - F FOR MULTILEVEL CONTROL AT 44" CL AFF, UNO
	LIGHTING CONTROL OCCUPANCY SENSOR - CEILING MOUNTED
	LIGHTING CONTROL PHOTOCELL
	DAYLIGHT SENSOR
	INTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	EXTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	EMERGENCY LIGHTING FIXTURE, WITH BATTERY. REFER TO LIGHT FIXTURE SCHEDULE
	EXIT SIGN
	CEILING FAN

TECHNOLOGY SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	VOICE / DATA ROUGH-IN BOX, AT 18" AFF UNO. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END.
	VOICE / DATA ROUGH-IN BOX, FLOOR MOUNTED. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END.
	TELEVISION DEVICE WITH HIGH SPEED INTERNET ACCESS CONNECTION. PROVIDE WITH 3/4" CONDUIT WITH PULL STRING TO ABOVE CEILING, 6" BUSH END. WALLSOURCE MULTISERVICE BOX OR APPROVED EQUAL.
	SECURITY CAMERA. COORDINATE REQUIREMENTS WITH OWNER.
	WIRELESS ACCESS POINT. COORDINATE REQUIREMENTS WITH OWNER.

LIGHTING CIRCUITING GUIDE	
SYMBOL	DESCRIPTION
	LIGHTING TYPE AND CIRCUIT DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER B: LIGHT FIXTURE TYPE, REFER TO LIGHT FIXTURE SCHEDULE
	SWITCHING SCHEME OR ZONE

POWER CIRCUITING GUIDE	
SYMBOL	DESCRIPTION
	POWER CIRCUITING DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER - DEVICE, JUNCTION BOX, FLOOR BOX, ETC - EQUIPMENT ABBREVIATION, REFER TO LEGEND AND ABBREVIATION SCHEDULE FOR ADDITIONAL INFORMATION

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE:	
ENERGY CODE: <input checked="" type="checkbox"/> PRESCRIPTIVE	<input type="checkbox"/> PERFORMANCE
ASHRAE 90.1: <input type="checkbox"/> PRESCRIPTIVE	<input checked="" type="checkbox"/> PERFORMANCE
LIGHTING SCHEDULE LAMP TYPE REQUIRED IN FIXTURE: SEE LIGHTING FIXTURE SCHEDULE ON THIS SHEET NUMBER OF LAMPS IN FIXTURE: SEE LIGHTING FIXTURE SCHEDULE ON THIS SHEET BALLAST TYPE USED IN THE FIXTURE: ENERGY EFFICIENT HIGH PURR FACTOR ELECTRONIC NUMBER OF BALLASTS IN FIXTURE: 1 OR 2 TOTAL WATTAGE PER FIXTURE: SEE LIGHTING FIXTURE SCHEDULE ON THIS SHEET TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED: 200 VS 200 TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED: 30 VS 30	
EQUIPMENT SCHEDULES WITH MOTORS (NOT USING MECHANICAL SYSTEMS) MOTOR HORSEPOWER: _____ NUMBER OF PHASES: _____ MINIMUM EFFICIENCY: _____ MOTOR TYPE: _____ NUMBER OF POLES: _____	
ADDITIONAL PRESCRIPTIVE COMPLIANCE REQUIREMENTS: 1. 508.2.1.1 ENERGY EFFICIENT MECHANICAL EQUIPMENT 2. 508.2.2.1 REDUCED LEAKAGE POWER DENSITY 3. 508.2.3.1 ENERGY EFFICIENT VENTILATION SYSTEMS 4. 508.2.4 HIGH EFFICIENCY SERVICE WATER HEATING 5. 508.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY 6. 508.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS	
STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLEX WITH THE ELECTRICAL SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE ENERGY CODE (2012 EDITION).	
SIGNED: _____	NAME: RYAN GRAY, PE
TITLE: _____	ELECTRICAL ENGINEER

LIGHTING FIXTURE SCHEDULE											
FIXTURE MARK	MANUFACTURER	CATALOG NUMBER	LAMP DATA		VOLTAGE	BALLAST DATA		INPUT WATTS	MOUNTING METHOD	DESCRIPTION	
			NO.	TYPE		NO.	TYPE				
A	TROY-CSL LTG-INC	KB20813-1	1	36W LED	120V	1	ELECTRONIC	36	WALL	INTERIOR ADA WALL SCONCE IN CORRIDOR	
C1	LEDALITE	3808-T01-E-40-1-1-E-W	1	F32 TB	120V	1	ELECTRONIC	32	COVE	INDIRECT COVE LIGHT, 40" CONTINUOUS RUN. SEE ARCHITECT DETAILS FOR EXACT MOUNTING LOCATION.	
D1	TROY-CSL LTG-INC	KC20812	2	18W CFL	120V	1	SELF-BALLASTED	40	CEILING	SURFACE MOUNTED COMPACT FLUORESCENT FIXTURE IN TOILETS.	
D2	TROY-LBY-200-LT	KF21508	4	60W	120V	-	-	60	PENDANT	LOBBY PENDANT LIGHT.	
D3	TROY-LBY-201-LT	F3813	1	60W	120V	1	ELECTRONIC DRIVER	60	PENDANT	DIMMABLE LED SMALL LOBBY BUSINESS CENTER PENDANT LIGHT	
D4	TROY-LBY-210-LT	F5636	1	12W	120V	1	ELECTRONIC DRIVER	12	PENDANT	DIMMABLE LED SMALL LOBBY BUSINESS CENTER PENDANT LIGHT	
G1	AMERICAN LIGHTING	LSMS201024100BK	-	LED	120V	1	ELECTRONIC DRIVER	90	HUNG	LED STRIP LIGHT. LENGTH REQUIRED	
LD	PORTFOLIO	LDS06B-20-D010-EUBB-1020-80-27-4LB-SQ-TL-1	1	LED	120V	1	-	21.2	FLUSH MOUNT	SQUARE DOWN LIGHT	
P2	FOCUS LIGHTING	SL20LGL1202010MMH102	1	150W PSMH	120V	1	ELECTRONIC	150	IN GROUND	RECESSED SQUARE FLAG POLE LIGHT. COORDINATE POLE LOCATION WITH G.C. PRIOR TO ROUGH-IN.	
P3	VISTA	1185-GG-NS-308-MV-AX-ND	-	LED	120V	1	ELECTRONIC DRIVER	23	IN GROUND	IN GROUND LED UPLIGHT	
P5	BEGA	24-362-K-4	1	LED 4000K	120V	1	ELECTRONIC DRIVER	14	WALL	POOL WALL SCONCE MOUNTED AT 9" AFF	
PL	CANLET	6802WF26H11-GSC	1	CF 26W TWT	120V	1	ELECTRONIC DRIVER	26	SURFACE	COMPACT FLUORESCENT VAPOR TIGHT GLOBE FOR ELEVATOR PIT.	
R1	LIGHTOLIER	P6R-D-20-NP6R-D-8-40P6R-D-CL	-	LED	120V	1	ELECTRONIC DRIVER	17	RECESSED	6" RECESSED LED DOWNLIGHT, 2000 LUMEN	
R2	LIGHTOLIER	P6R-D-20-NP6R-D-8-40P6R-D-CL	-	LED	120V	1	ELECTRONIC DRIVER	17	RECESSED	6" RECESSED WALL WASH LED DOWNLIGHT, 2000 LUMEN.	
R3	LIGHTOLIER	P6R-D-20-NP6R-D-8-40P6R-D-CL	-	LED	120V	1	ELECTRONIC DRIVER	17	RECESSED	6" RECESSED LED DOWNLIGHT, 2000 LUMEN	
R4	LIGHTOLIER	C3L06R-D-20-NP6R-D-8-40P6R-D-CL	-	LED	120V	1	ELECTRONIC DRIVER	19	RECESSED	3" RECESSED LED DOWNLIGHT, 2000 LUMEN	
R6	LIGHTOLIER	P6R-D-20-NP6R-D-8-40P6R-D-CL	-	LED	120V	1	ELECTRONIC DRIVER	14	SURFACE	SURFACE MOUNTED LED SHOWER LIGHT	
RV	TROY-CSL LTG-INC	KB20800	2	27W CFL	120V	1	SELF-BALLASTED	60	WALL	INTERIOR ADA WALL SCONCE IN GUESTROOM	
RV	TROY-CSL LTG-INC	KB20801	1	30W LED	120V	1	ELECTRONIC DRIVER	30	WALL	30" GUESTROOM VANITY LIGHT	
RY	TROY-GR-207-LT	KB20808-1	1	60W	120V	1	SELF-BALLASTED	60	WALL	SCONCE IN ONE BEDROOM END WALL	
S2	BEGA	66-655	1	LED	120V	1	ELECTRONIC DRIVER	8	WALL	EXTERIOR DARK SKY LED WALL LIGHT	
S3	BEGA	66-516	-	Q1Z HAL 150W	120V	1	-	16	SURFACE	WALL MOUNTED FLOOD LIGHT	
EC	ECOSENSE	L50E-4B124080-MULT-120	-	LED	120V	1	ELECTRONIC DRIVER	12	SURFACE	UPLIGHT LOCATED IN BEACON TOWER	
T1	DAY-BRITE	2-ST-G-34L-840-2-D-DM	-	LED	120V	1	ELECTRONIC DRIVER	40	RECESSED	2x2' LED TROFFER WITH 0-10V DIMMING BALLAST	
T2	DAY-BRITE	2-ST-G-42L-840-4-D	-	LED	120V	1	ELECTRONIC DRIVER	41	RECESSED	2x4' LED TROFFER	
T3	DAY-BRITE	1-ST-26L-840-4-D	-	LED	120V	1	ELECTRONIC DRIVER	28	PENDANT/SURFACE	PENDANT/SURFACE MOUNTED 1x4' LED FIXTURE	
W1	LITHONIA LIGHTING	WL4-30L-LP840-MSD7-DM50-EL14L	-	1-29W LED	120V	1	ELECTRONIC DRIVER	29	SURFACE	4" SURFACE MOUNTED LED	
X	LITHONIA	LGM SW - R 120277 ELN	-	LED	120V	-	-	1	UNIVERSAL	THERMOPLASTIC LED EXIT SIGN WITH RED LETTERS AND WHITE HOUSING. PROVIDE 90 MINUTE BATTERY BACKUP	
EM	LITHONIA	ELM627	2	9W	120V	-	-	5	UNIVERSAL	SURFACE MOUNTED EMERGENCY LIGHT MOUNT AT 96" AFF TO BOTTOM PROVIDE WITH 90 MINUTE BATTERY BACKUP	
EM1	LITHONIA	AFN SERIES FINISH AS SELECTED BY ARCHITECT / OWNER	-	LED	120V	-	-	5	UNIVERSAL	WEATHERPROOF EXTERIOR EMERGENCY FIXTURE.	

NOTES:
1. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF AND FIXTURES. INFORMATION ON ALTERNATE FIXTURES PROPOSED BY THE CONTRACTOR SHALL INCLUDE THE ADD/DEDUCT ASSOCIATED WITH ACCEPTANCE OF THAT FIXTURE (OR THE ALTERNATE PACKAGE AS A WHOLE).
2. MASTER SLAVE WIRING CONFIGURATIONS SHALL BE USED FOR MULTILAMP FLUORESCENT FIXTURES WHERE POSSIBLE. THE CONTRACTOR SHALL VERIFY THE QUANTITY AND TYPE OF BALLASTS REQUIRED TO PERMIT BILEVEL SWITCHING WHERE INDICATED. WHERE BILEVEL LIGHTING IS INDICATED INBOARD AND OUTBOARD LAMPS SHALL BE SWITCHED SEPARATELY.
3. EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED TO AN UNSWITCHED LEG OF THE LOCAL LIGHTING CIRCUIT, UNLESS NOTE OTHERWISE.

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Revisions		
Number	Description	Date

SHEET ISSUE:
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FOR CONSTRUCTION

SHEET TITLE:
ELECTRICAL
GENERAL NOTES &
LEGENDS

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