A — ECONOLIGHT PLT 90172 HANGING LED, CHAIN DOWN FROM PURLINS TO DESIRED HEIGHT OR SURFACE MOUNT IN ROOMS WITH HARD FINISHED CEILINGS

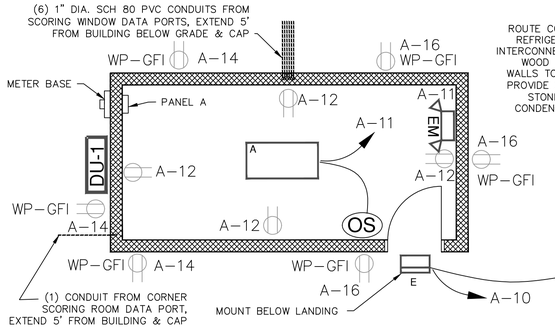
E — ECONOLIGHT E-WRT09B 70W LED EXTERIOR WALL PACK

20A, 120V, DUPLEX RECEPTACLE 18" AFF, COMMERCIAL GRADE

NON-FUSED DISCONNECT RATING & SIZE AS SHOWN ON DRAWINGS

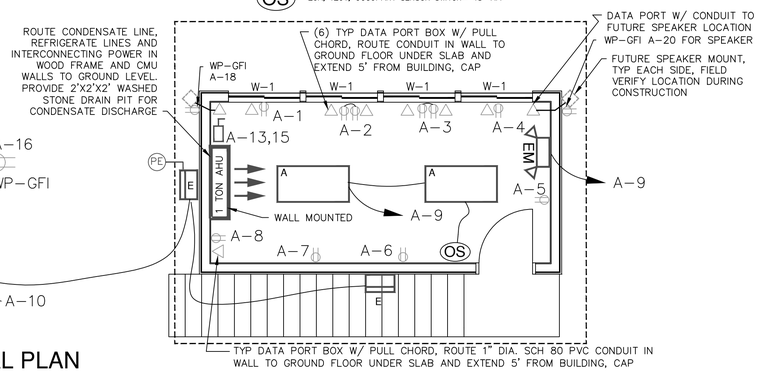
EM — ECONOLIGHT CE-EE-A-EMG-2L-BB-WH 1.8W LED EMERGENCY LIGHT TWO ADJUSTABLE HEADS, BATTERY BACK UP

OS — 20A, 120V, OCCUPANT SENSOR SWITCH– 48" AFF



GROUND FLOOR MECHANICAL & ELECTRICAL PLAN

(SCALE: 1/4" = 1'–0")



SECOND FLOOR MECHANICAL & ELECTRICAL PLAN

(SCALE: 1/4" = 1'–0")

PANEL A

BUS SIZE	200 A	
MAINS	200 MAIN	
MOUNTING	SURFACE	
HI VOLTAGE	240 V	SINGLE PH
LOW VOLTAGE	120 V	SINGLE PH
ISO GRD BUS	YES	
GROUND BUS	YES	
AIC RATING	22,000	

TOTALS	KVA
A	5510
B	5220
TOTAL	10730 VA
	45 AMPS

NO.	BRK	CIRCUIT DESCRIPTION	Aph VA	Bph VA		Aph VA	Bph VA	CIRCUIT DESCRIPTION	BRK	NO.
1	20	Scoring Receptales	310			480		Scoring Receptacles	20	2
3	20	Scoring Receptales		310			480	Scoring Receptacles	20	4
5	20	Scoring Receptacles	310			480		Scoring Receptacles	20	6
7	20	Scoring Receptacles		310			480	Scoring Receptacles	20	8
9	20	Scoring Lights	510			620		Wall Packs	20	10
11	20	Storage Lights		360			480	Storage Receptacles	20	12
13	45/2	DU-1	2160			520		Outside Receptacle WP-GFI	20	14
15	45/2	DU-1		2160			520	Outside Receptacle WP-GFI	20	16
17						120		Speaker Receptacle	20	18
19							120	Speaker Receptacle	20	20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
		TOTALS	3290	3140		2220	2080			

DUCTLESS HEAT PUMP SCHEDULE									
INDOOR UNIT				OUTDOOR UNIT					
MARK	VOLT / PHASE	COOLING CAPACITY	HEATING CAPACITY	MARK	MITSUBISHI MODEL #	VOLT / PHASE	MCA	MOPD	SEER
AH-1	120/240/1 PH	12,000 BTU	12,000 BTU	DU-1	MXZ4C12NAHZ	240/1 PH	37	45	17

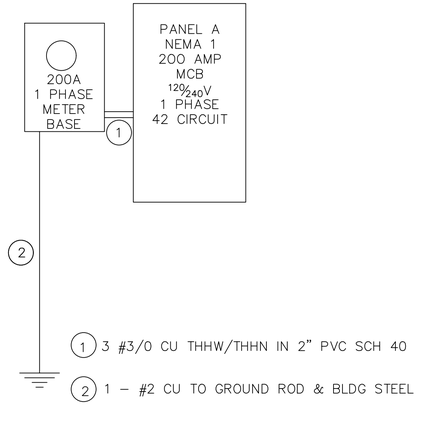
OR APPROVED EQUAL

GENERAL ELECTRICAL NOTES

1. THE CONTRACTOR SHALL REFER TO THE GC-1 PLAN FOR FLOOR PLAN DIMINSIONS. DO NOT SCALE THESE DRAWINGS.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS RO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW OPTIMUM MAINTENANCE AND WORKING SPACE.
3. USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPERATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
4. ALL FUSES, DISCONNECT SWITCHES, AND BREAKERS SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATIONOF SAID EQUIPMENT, WITH THE SUPPLIER AND THE MECHANICAL CONTRACTOR.
5. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES AND ORDINANCES AND THE LATEST EDITION OF THE NEC.
6. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BT HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OT THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTORS EXPENSE.
7. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK AND MILLWORK TO BE FURNISHED.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDE BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISIPLINES. CORDINATE CLOSELY.
9. WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THE SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
10. ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
11. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
12. THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED PANEL SCHEDULES FOR ALL PANELBOARDS.
13. AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE CONTRACT.
14. THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANYLIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDE FOR ALL FIXTURES. ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
15. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND ELECTRICAL SERVICE WITH THE LOCAL UTILITY.
16. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE LOCATION OF HIS TELEPHONE CONDUIT STUB OUTS WITH THE LOCAL TELEPHONE COMPANY PRIOR TO HIS INSTALLING ANY CONDUITS.
17. ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPEAL THHN/THWN WIRE. ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75° C.
18. MIN. CONDUIT SIZE SHALL BE 1/2" AND MIN. WIRE SIZE SHALL BE #12 AWG.
19. METAL-CLAD CABLE (TYPE MC) AND ARMORED CABLE (TYPE AC) IS AN ACCEPTABLE WIRING METHOD SUBJECT TO RESTRICTIONS OF THE NEC. TYPES "MC OR AC" CABLE SHALL NOT BE USED WHEN PENETRATING RATED WALLS.
20. THE MAX. NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED 3.
21. SWITCH INSIDE & OUTSIDE LAMPS SEPARATELY IN THESE ROOMS
22. PROVIDE ATTIC LIGHTS & RECEPTACLES PER NEC CODE, PROVIDE SWITCH AT ATTIC ENTRANCE POINT

HVAC GENERAL NOTES:

1. CONTRACTOR IS TO REVIEW ALL DRAWINGS FOR BUILDING CONSTRUCTION WHICH MAY AFFECT HIS WORK AND BE GOVERNED BY THESE SPECIFICATIONS.
2. ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES FOR THIS CLASS OF WORK, INCLUDING ALL SERVICE CHARGES, FEES AND PERMITS.
3. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE IBC, THE 2015 SOUTH CAROLINA ENERGY CODE AND THE 2015 SOUTH CAROLINA MECHANICAL CODE.
4. CONTRACTOR SHALL VERIFY ALL CONDITIONS ABOVE AND BELOW THE CEILING WHICH MAY INTERFERE WITH THE DUCT SYSTEM AND NOTIFY THE ENGINEER OR OWNER OF ANY CONFLICT, AND MAKE OFFSETS IN THE DUCT SYSTEM AS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.
5. ALL SHEET METAL DUCT CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH "SMACNA" LOW PRESSURE DUCT CONSTRUCTION STANDARDS.
6. CONTRACTOR IS TO PROVIDE FLEXIBLE NEOPRENE IMPREGNATED GLASS FABRIC CONNECTIONS AT THE INLET AND OUTLET OF AIR HANDLING EQUIPMENT.
7. ALL DUCTWORK INSTALLED IN NON-CONDITIONED AREAS SHALL BE INSULATED. THE MINIMUM THERMAL RESISTANCE VALUE OF THE INSULATING MATERIAL SHALL BE R-8.
8. ALL ROUND DUCT IS TO BE INSULATED WITH DUCT WRAP HAVING A VAPOR PROOF JACKET.
9. ALL INSULATION AND ACCESSORIES ARE TO BE UL LABELED FOR FIRE AND SMOKE RATINGS. ADDITIONAL COMPONENTS TO BE INSULATED INCLUDE:
   A. INTERIOR CONDENSATE DRAIN PIPING.
   B. REFRIGERANT PIPING (1½" CLOSED CELL FOAM INSULATION).
   C. COMPONENT HANGERS.
10. AIR HANDLING EQUIPMENT CONDENSATE LINES ARE TO HAVE "P" TRAPS. ROUTE LINES TO NEAREST DRAIN, SLOPE FOR SUFFICIENT DRAINAGE AND SECURE.
11. ALL CONDENSATE PIPING SHALL BE TYPE L COPPER OR SCH. 40 PVC. INSULATE INTERIOR PIPING WITH ½" CLOSED CELL FOAM INSULATION.
12. ALL DUCTS SHALL BE ADEQUATELY SUPPORTED.
13. INDICATED LOCATIONS OF DIFFUSERS AND GRILLS ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL SUPPLY AND RETURN REGISTERS, DUCTS, GRILLS AND DIFFUSERS WITH LIGHTING AND CEILING PATTERN.
14. AIR HANDLING UNITS TO BE SET IN 2" DEEP GALVANIZED OR LEXAN DRAIN PANS PIPED TO THE EXTERIOR. USE FLOAT SWITCH TO CUT OFF UNIT IN CASE OF CONDENSATE OVERFLOW.
15. WARRANTY AND GUARANTY INFORMATION REQUIRED ON COMPRESSORS, LOGIC MODULES AND HEAT EXCHANGERS.
16. ALL FRESH AIR INTAKES TO HAVE MOTORIZED DAMPERS, AND BE SIZED AS SHOWN ON PLANS.
17. ELECTRIC HEAT STRIPS TO HAVE OUTDOOR THERMOSTATS.
18. A GASKET SEAL SHALL BE PROVIDED WHEREVER THE DUCTS PENETRATE THE THERMAL ENVELOPE.



ELECTRICAL SERVICE RISER

(NTS)

CITY OF LUMBERTON
PUBLIC WORKS DEPARTMENT
215 SOUTH CEDAR STREET
LUMBERTON, NC 28358
910-671-3851

ENGINEER

CAROLINA — ROBERT R. ARMSTRONG JR. — SEAL 025488 — 8/25/21 — NORTH

DRAWING DATA
DATE: 6/22/21
SCALE: 1/4" = 1'–0"
DRAWN BY: RPA
DESIGNED BY: RPA
CHECKED BY:
PLOT SCALE: N/A
CAD FILE NO: M/E-1

NO. | REVISION

FIELD 6 SCORING TOWER
CITY OF LUMBERTON NORTHEAST PARK
HORNET ROAD, LUMBERTON, NC

POWER, LIGHTING, HVAC

SHEET
M/E-1