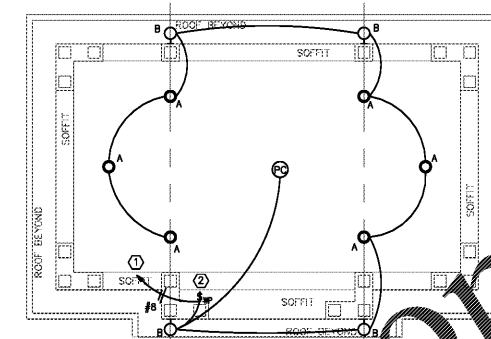


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1 MAIL KIOSK ELECTRICAL PLAN
 M-E1.1 SCALE: 1/4" = 1' - 0"

KEY NOTES:

- ① CONNECTION TO MAIN SERVICE CIRCUIT BREAKER IN NEAREST 240V/20A HOUSE PANEL.
- ② DRIVE BEHIND ROOF AND BOND TO SWITCH. DO NOT BOND NEUTRAL TO GROUND.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	WATTS/VOLTS
RECESSED	DOWNLIGHT	LED	25W 120V
EXTERIOR	SCENCE	LED	50W 120V

NOTES:
 1. VERIFY CEILING TYPES AND PROVIDE MOUNTING HARDWARE/ACCESSORIES/FIXTURE OPTIONS NECESSARY FOR INSTALLATION.
 2. EXTERIOR FIXTURES SHALL BE DAMP OR WET LOCATION LISTED AS REQUIRED.
 3. LAMPS SHALL BE INCLUDED AND INSTALLED IN ALL FIXTURES UNLESS NOTED OTHERWISE.

LOAD STUDY

ITEM	LOAD (KVA)
LIGHTING	0.25
RECEPTACLES	0.00
120 VOUTLETS	0.00
30 VOUTLETS	0.00
HVAC	0.00
WATER HEATERS	0.00
OTHER CONTINUOUS	0.00
OTHER NON-CONTINUOUS	0.00
KITCHEN EQUIPMENT	0.00
TOTAL LOAD	0.25

NOTES AND SPECIFICATIONS:

1. CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. NO ALLOWANCE WILL BE SUBSEQUENTLY MADE IN HIS BEHALF BECAUSE OF ANY ERROR ON HIS PART RELATED TO ABSENCE OF KNOWLEDGE ABOUT THE WORK OR THE SITE.
2. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT, PAY ALL FEES AND COSTS, SHALL OBTAIN ALL PERMITS, APPROVALS, AND INSPECTIONS TO PROVIDE A COMPLETE ELECTRICAL INSTALLATION.
3. CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES. CONTRACTOR SHALL PAY ALL ASSOCIATED COSTS FOR TEMPORARY AND PERMANENT POWER.
4. ALL ELECTRICAL INSTALLATIONS TO COMPLY WITH NATIONAL AND LOCAL CODES AND TO BE INSTALLED IN A FIRST CLASS WORKMANLIKE MANNER.
5. ALL ITEMS INSTALLED PER THESE DRAWINGS SHALL BE NEW AND U.L. LABELED AND LISTED FOR THEIR SPECIFIC USE.
6. WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF OCCUPANCY (C.O.). ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION AND FAULT FREE UPON DELIVERY TO OWNER.
7. LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS WITH OTHER TRADES. THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE.
8. ANY RENOVATION WORK OF EXISTING INSTALLATIONS INCLUDED IN THESE DRAWINGS IS BASED ON INFORMATION PROVIDED TO THE ENGINEER AND/OR THE ENGINEER'S FIELD OBSERVATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE EXISTING INSTALLATION AND THE WORK SHOWN IN THESE DRAWINGS THAT MAY ADVERSELY AFFECT THE COST OR SCOPE OF WORK.
9. ALL ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED WITH PERMANENT LABELS. EXTERIOR LABELS SHALL BE WEATHERPROOF.
10. PANELBOARDS SHALL BE EQUAL TO SQUARE D TYPE NQDD, BOLT-ON BREAKERS, 20" MINIMUM WIDTH. SEE PANELBOARD SCHEDULES FOR AIC RATINGS.
11. ALL 15A/1P AND 20A/1P CIRCUIT BREAKERS SHALL BE SWITCH DUTY RATED. ALL BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR RATED. MULTI-POLE BREAKERS SHALL HAVE COMMON TRIP ELEMENT.
12. PANELS SHALL BE DEADFRONT WITH NO OPEN SPACES OR KNOCK-OUTS. PANELS SHALL NOT HAVE CABINETS OR BUSSING MOUNTED UPSIDE DOWN.
13. PANELS SHALL HAVE NUMBERED POLE SPACES AND COMPLETED, CORRECT PANEL SCHEDULE.
14. CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN 600V, 75°C. MINIMUM WIRE SIZE IS #12 AWG.
15. WHEN PVC CONDUIT IS USED, PROVIDE AN ADDITIONAL EQUIPMENT GROUNDING CONDUCTOR.
16. WHERE CONDUIT, WIRE, OR EQUIPMENT SIZES AND TYPES ARE NOT SHOWN, THEY SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS.
17. EQUIPMENT, CONDUIT, AND DEVICES ON UNFINISHED WALLS ARE EXPOSED UNLESS NOTED OTHERWISE. CONDUIT AND DEVICES ON STUD OR FURRED WALLS SHALL BE CONCEALED OR RECESSED.
18. EXPOSED AND ABOVE CEILING BRANCH CIRCUITRY SHALL BE THIN COPPER INSTALLED IN EMT RACEWAY WITH STEEL SET SCREW FITTINGS.
19. IN WALLS AND ABOVE CEILINGS, LIGHTING BRANCH CIRCUITRY MAY BE ACCOMPLISHED WITH A FLEXIBLE WIRING SYSTEM COMPLETE WITH ALL FITTINGS AND ACCESSORIES AS MANUFACTURED BY LITHONIA LIGHTING OR EQUAL, LISTED FOR PLENUM USE.
20. UTILIZE TYPE MC CABLE FOR BRANCH CIRCUITRY IN WALLS AND ABOVE CEILINGS.
21. SIZE CONDUCTORS AS NECESSARY TO MEET VOLTAGE DROP REQUIREMENTS OF N.E.C.
22. PROVIDE #8 COPPER GROUND CONDUCTOR AT TELEPHONE BACKBOARD. CONNECT TO BUILDING STEEL.
23. CIRCUITS TO ROOF SHALL BE ROUTED WITHIN RTU CURB.
24. METALLIC ELECTRICAL BOXES SHALL BE INSTALLED SO THERE IS A 24" MIN. HORIZONTAL SEPARATION WHEN BOXES ARE LOCATED ON OPPOSITE SIDES OF A RATED WALL. THE OPENING BETWEEN THE BOX AND THE WALLBOARD SHALL NOT EXCEED 1/8".
25. COORDINATE WITH ARCHITECT OR OWNER FOR COLOR AND FINISH OF DEVICES AND COVERPLATES.

ELECTRICAL LEGEND

[Symbol]	FLUORESCENT TROFFER. SEE FIXTURE SCHEDULE.
[Symbol]	FLUORESCENT TROFFER WITH EMERGENCY BATTERY/CHARGER PACK.
[Symbol]	FLUORESCENT STRIP FIXTURE. SEE FIXTURE SCHEDULE.
[Symbol]	FLUORESCENT FIXTURE, SURFACE MOUNTED, OR PENDANT. SEE FIXTURE SCHEDULE.
[Symbol]	HID FIXTURE. SEE FIXTURE SCHEDULE.
[Symbol]	INCANDESCENT OR HID FIXTURE. SEE FIXTURE SCHEDULE.
[Symbol]	INDICATES WALL BRACKET TYPE MOUNTING.
[Symbol]	EXIT LIGHT WITH BATTERY BACKUP.
[Symbol]	COMBINATION EXIT LIGHT WITH BATTERY BACK UP AND EMERGENCY LIGHTING FEATURE USING TWO HEADS AND REMOTE CAPABILITY.
[Symbol]	EMERGENCY LIGHT WITH BATT./CHARGER, TWO HEADS WITH REMOTE HEAD CAPABILITY.
[Symbol]	REMOTE EMERG. LIGHT HEAD ON ONE GANG BOX AND CONNECTED TO EMERGENCY EXIT OR COMBINATION EXIT LIGHT.
[Symbol]	WALL SWITCH, SINGLE POLE, 120/277V. QUIET TYPE 44" AFF ON CENTER OR AS NOTED.
[Symbol]	WALL SWITCHES: 2 POLE/3 WY/MOTOR RATED/OCCUPANCY SENSOR
[Symbol]	CEILING MOUNTED OCCUPANCY SENSOR
[Symbol]	DIMMER SWITCH, 2000W @ 44" AFF ON CENTER OR AS NOTED
[Symbol]	JUNCTION BOX WITH COVER PLATE.
[Symbol]	JUNCTION OR PULL BOX.
[Symbol]	MOTOR, FRAME/HP TYPE OR EXHAUST FAN.
[Symbol]	WIRE SIZE AS NOTED
[Symbol]	DISCONNECT SWITCH WITH FUSE, LAMPING/POLES/NEUA ENCLOSURE.
[Symbol]	DISCONNECT SWITCH (USED). RATING/POLES/FUSE RATING/NEUA ENCLOSURE.
[Symbol]	PANELBOARD, 480V/277V OR 208V/120V OR 240/120V, SURFACE OR RECESSED AS SHOWN.
[Symbol]	TELEPOWER POLE.
[Symbol]	DUPLEX RECEPTACLE, 18" AFF ON CENTER OR AS NOTED, 15A 125V.
[Symbol]	DUPLEX RECEPTACLE, DEDICATED, 18" AFF ON CENTER OR AS NOTED, 20A 125V.
[Symbol]	DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, ORANGE MARKING, 18" AFF ON CENTER UNLESS NOTED.
[Symbol]	DUPLEX RECEPTACLE, ABOVE COUNTER HEIGHT OR AS NOTED, 20A/125V.
[Symbol]	DUPLEX RECEPTACLE, (GFCI), ABOVE COUNTER HEIGHT OR AS NOTED.
[Symbol]	DUPLEX RECEPTACLE, (GFCI) WEATHERPROOF WITH GINETEED COVER, AT 18" AFF ON CENTER OR AS NOTED, MOUNT ON POSTERIOR OR ANTI-KICK TO EQUIP. EXCL. ON ROOF.
[Symbol]	QUADRUPLEX RECEPTACLE, 18" AFF ON CENTER OR AS NOTED, 15A/125V.
[Symbol]	SPECIAL RECEPTACLE, COORDINATE NEMA CONFIGURATION WITH EQUIPMENT.
[Symbol]	CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING. "C" MEANS EMPTY CONDUIT WITH PULL CORD.
[Symbol]	CONDUIT AND WIRE UNDERGROUND OR BELOW SLAB.
[Symbol]	HOMERUN TO PANEL.
[Symbol]	SLASH MARKS INDICATE NUMBER OF #12 WIRES IN CONDUIT, EXTENDED SLASH IS NEUTRAL. ABSENCE OF SLASHES IS 2/12. SIZE CONDUIT PER N.E.C. EQUIPMENT GROUND REQUIRED IN PVC CONDUIT BUT WITH COVERS AND CARPET FLANGE.
[Symbol]	INDICATES INCREASED WIRE SIZE FOR VOLTAGE DROP/AMPACITY.
[Symbol]	TELEPHONE HOME RUN TO TEL. CABINET. 1" PVC WITH PULL CORD. STUB UP 6" AFF ON CENTER IN SHOP AT TB8 AND STA. SEE ELECTRICAL SITE PLAN.
[Symbol]	TEL. BACKBOARD (OR TERMINAL BOARD) 2' x 4' x 3/4" MARINE GRADE, PLYWOOD PAINTED LIGHT GRAY. PROVIDE RECEPTACLE AND POSITIVE GROUND CONDUCTOR. (#8 AWG COPPER)
[Symbol]	DATA OUTLET, WALL MOUNTED 18" AFF ON CENTER OR AS NOTED, WITH 3/4" CONDUIT STUBBED ABOVE CEILING.
[Symbol]	TELEPHONE OUTLET, WALL MOUNTED 18" AFF ON CENTER OR AS NOTED, WITH 3/4" CONDUIT STUBBED ABOVE CEILING.
[Symbol]	COMBINATION TELEPHONE/DATA OUTLET BOX, WALL MOUNTED 18" AFF ON CENTER OR AS NOTED, WITH 3/4" CONDUIT STUBBED ABOVE CEILING.
[Symbol]	TWO-GANG FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE AND COMMUNICATIONS OUTLET WITH COVERS AND CARPET FLANGE.
[Symbol]	THREE-GANG FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE, COMMUNICATIONS OUTLET, AND CRT OUTLET WITH COVERS AND CARPET FLANGE.
[Symbol]	SPEAKER ROUGH-IN LOCATION.
[Symbol]	RAIN TIGHT/WEATHERPROOF.
[Symbol]	NIGHT LIGHT, CONNECT TO UNSWITCHED CONDUCTORS OF LIGHTING CIRCUIT.
[Symbol]	ABOVE FINISHED FLOOR OR GRADE.
[Symbol]	NEAREST RECEPTACLE CIRCUIT.
[Symbol]	SMOKE DETECTOR
[Symbol]	COMBINATION SMOKE DETECTOR/CO DETECTOR.
[Symbol]	DUCT MOUNTED SMOKE DETECTOR.
[Symbol]	SPRINKLER RISER FLOW SWITCH.
[Symbol]	SPRINKLER RISER TAMPER SWITCH.
[Symbol]	NEW DEVICE.
[Symbol]	RELOCATED DEVICE.
[Symbol]	EXISTING DEVICE.
[Symbol]	CAMERA.
[Symbol]	BUTTON.
[Symbol]	TV OUTLET.
[Symbol]	PULLBOX.



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Issue & Revisions:

No.	Date	Description
REV 1	040119	CLARIFICATION

ELECTRICAL PLAN

Drawn
 TSL
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 TSL
 Contract No.
 AS SHOWN

Scale
 AS SHOWN

M-E1.1
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03-05-19