

A1 ELECTRICAL SITE PLAN
 1" = 20'-0"
 0 10' 20'

LEGEND

- A-1.3 HOMERUN OF CIRCUIT TO PANEL - CIRCUIT NUMBERS INDICATED.
- J JUNCTION BOX
- M ELECTRICAL METER, WEATHERPROOF ENCLOSURE
- H ELECTRICAL HANDHOLE
- T PAD MOUNTED TRANSFORMER
- [Hatched Box] PANELBOARD, SURFACE MOUNTED. HATCHING INDICATES CLEAR SPACE IN FRONT.
- [Ground Symbol] ELECTRICAL EARTH GROUND

GENERAL NOTES

1. FURNISH ALL MATERIALS AND LABOR NECESSARY TO PROVIDE COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEMS. FURNISH ALL MATERIALS AND LABOR NECESSARY TO DEMONSTRATE TO THE OWNER AND TO THE ENGINEER THAT ALL SYSTEMS ARE OPERATING PROPERLY AND AS SPECIFIED. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.
2. ENSURE THAT ALL WORK CONFORMS TO THE LATEST EDITION OF:
 - 2.1. ANS/NFPA 70 (NATIONAL ELECTRICAL CODE)
 - 2.2. NECA STANDARD OF INSTALLATION
 - 2.3. SOUTH CAROLINA BUILDING CODE
 - 2.4. NFPA 101 (LIFE SAFETY CODE)
 - 2.5. ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES
 - 2.6. LOCAL UTILITY COMPANY REGULATIONS
3. ALL MATERIALS, EQUIPMENT AND DEVICES AS A MINIMUM SHALL MEET THE REQUIREMENTS OF U.L. (WHERE U.L. STANDARDS ARE ESTABLISHED FOR THOSE ITEMS) AND THE REQUIREMENTS OF THE NFPA 70. ALL ITEMS SHALL BE CLASSIFIED BY U.L. AS SUITABLE FOR THE PURPOSE USED.
4. COORDINATE WITH AND OBTAIN PERMITS AND INSPECTIONS FROM THE AUTHORITY HAVING JURISDICTION. INCLUDE ALL FEES IN BID.
5. PROVIDE A LAMINATED PLASTIC NAMEPLATE FOR EACH MAJOR ITEM OF ELECTRICAL EQUIPMENT. ATTACH WITH SCREWS, BOLTS OR RIVETS. LABEL ALL SERVICE METERS AND DISCONNECTS WITH NAME AND IDENTIFY SPACE/AREA SERVED.
6. BOND THE NEUTRAL AND GROUND BUS TOGETHER AT THE SERVICE EQUIPMENT ONLY. BOND THE GROUNDING CONDUCTOR TO THE GROUNDING ELECTRODE SYSTEM (WHICH IS COMPRISED OF A 3/4"x10' DRIVEN GROUND ROD AND CONNECTIONS TO METALLIC PIPING, BUILDING STEEL, ETC.). PROVIDE INSULATED NEUTRALS FOR ALL SUBPANELS PER N.E.C. ARTICLE 250.
7. PROVIDE MINIMUM SIZE OF #12 CONDUCTOR FOR 20A POWER CIRCUITS LESS THAN 75'-0" IN LENGTH. OTHERWISE, PROVIDE MINIMUM CONDUCTOR SIZE OF #10. PROVIDE MINIMUM SIZE OF #12 AWG FOR LIGHTING CIRCUITS AND #16 FOR CONTROL CIRCUITS UNLESS NOTED OTHERWISE. INSTALL ALL WIRING IN CONDUIT UNLESS NOTED OTHERWISE.
8. PROVIDE TYPEWRITTEN DIRECTORY FOR ALL CIRCUITS. DIRECTORY SHALL IDENTIFY PANELBOARD AND INDICATE EACH CIRCUIT NUMBER, DESCRIPTION AND LOCATION.
9. THE CLEARANCE AROUND PANELS SHALL COMPLY WITH NEC AND SCFC 605.3 WORKING SPACE AND CLEARANCE. A WORKING SPACE OF NOT LESS THAN 30 INCHES (762 MM) IN WIDTH, 36 INCHES (914 MM) IN DEPTH AND 78 INCHES (1981 MM) IN HEIGHT SHALL BE PROVIDED IN FRONT OF ELECTRICAL SERVICE EQUIPMENT. WHERE THE ELECTRICAL SERVICE EQUIPMENT IS WIDER THAN 30 INCHES (762 MM), THE WORKING SPACE SHALL NOT BE LESS THAN THE WIDTH OF THE EQUIPMENT. NO STORAGE OF ANY MATERIALS SHALL BE LOCATED WITHIN THE DESIGNATED WORKING SPACE. PROVIDE STRIPING ON THE FLOOR AROUND ELECTRICAL PANELS TO CLEARLY IDENTIFY/INDICATE CLEARANCE AREA/NO STORAGE AREA.
10. MAKE ARRANGEMENTS WITH THE POWER COMPANY TO OBTAIN PERMANENT POWER AND PROVIDE TEMPORARY ELECTRICAL SERVICE TO THE PROJECT FOR CONSTRUCTION POWER. PROVIDE SERVICE ENTRANCE AND PROVISION FOR METERING IN ACCORDANCE WITH THE POWER COMPANY'S REQUIREMENTS. INCLUDE ALL FEES IN BID.

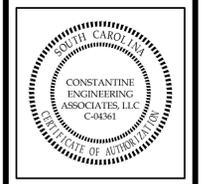
DEMOLITION NOTES

- 1 EXISTING PANEL TO BE DEMOLISHED.
- 2 REMOVE CONDUCTORS IN PANEL 'PA1' SERVING PANEL 'PA2' AND ABANDON/CAP CONDUIT IN PLACE. MARK CIRCUIT BREAKER IN PANEL 'PA1' AS SPARE. CONSTRUCTION PHASING SHALL BE SUCH THAT EXISTING POWER TO PANEL 'PA2' IS NOT TO BE DISCONNECTED UNTIL NEW TRANSFORMER AND POWER IS INSTALLED.

DRAWING NOTES

- 1 EXISTING CONDUIT FOR NEW TRANSFORMER TO REMAIN. FIELD VERIFY LOCATION.
- 2 NEW 120/208V/3Ø TRANSFORMER BY DOMINION ENERGY TO BE INSTALLED AT TERMINATION POINT OF EXISTING CONDUIT IN DRAWING NOTE 1. EXISTING AND NEW SITE LIGHTING (BY DOMINION ENERGY) TO BE FED FROM NEW TRANSFORMER. SEE DETAILS ON E401.
- 3 NOT USED.
- 4 EXISTING TO REMAIN.
- 5 PROVIDE PEDESTAL-MOUNTED POWER OUTLET ASSEMBLY WITH ONE (1) 14-50R AND ONE (1) 5-20R GFCI RECEPTACLE FOR TOUR BUS POWER. PROVIDE 2#8, 1#10G FOR 50A RECEPTACLE AND 2#10, 1#10G IN 1" CONDUIT FOR EACH ASSEMBLY. MILLBANK U5000-XL-75-C OR APPROVED EQUAL. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.

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HANAHAN RECREATION CENTER
3100 MABELINE ROAD
 HANAHAN, SC 29410
 ELECTRICAL SITE PLAN

REVISIONS:	DATE	BY
1	10/24/19	CLM

DESIGNED BY: CLM
 DRAWN BY: JPC
 CHECKED BY: CJC
 DATE: 10/08/19
 JOB NUMBER
19-080

SHEET NUMBER
E101