

LIGHTING

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|  | DOWNLIGHT, CEILING RECESS MOUNTED, SHADE INDICATES WITH INTEGRAL EMERGENCY BATTERY PACK          |
|  | WALL MOUNTED LIGHT, SHADE INDICATES WITH INTEGRAL EMERGENCY BATTERY PACK                         |
|  | 1' X 4' LED LIGHT, SURFACE/PENDANT MOUNTED, SHADE INDICATES WITH INTEGRAL EMERGENCY BATTERY PACK |
|  | 1' X 4' LED LIGHT CEILING RECESS MOUNTED, SHADE INDICATES WITH INTEGRAL EMERGENCY BATTERY PACK.  |
|  | 2' X 2' LED LIGHT CEILING RECESS MOUNTED, SHADE INDICATES WITH INTEGRAL EMERGENCY BATTERY PACK.  |
|  | 2' X 2' LED LIGHT CEILING RECESS MOUNTED, SHADE INDICATES WITH INTEGRAL EMERGENCY BATTERY PACK.  |
|  | RECESSED LINEAR LED LIGHT, SHADE INDICATES WITH INTEGRAL EMERGENCY BATTERY PACK                  |
|  | LED LIGHT, PENDANT MOUNTED, CIRCULAR SHAPE   |
|  | LED FLEXIBLE CONTINUOUS STRIP LIGHT  |
|  | LED CANOPY LIGHT, SURFACE MOUNTED  |
|  | PENDANT MOUNTED LINEAR LED LIGHT, SHADE INDICATES WITH EMERGENCY BATTERY PACK                    |
|  | LED TRACK LIGHT, CEILING MOUNTED   |
|  | LED LIGHT, PENDANT MOUNTED   |
|  | LIGHT, PENDANT MOUNTED   |
|  | EXIT SIGN LIGHT, SHADED QUADRANT INDICATES SIGN LETTERED FACE, CHEVRON TYPE DIRECT.              |
|  | POLE LIGHT   |
|  | MOTOR RATED SWITCH   |
|  | BOLLARD LIGHTS   |
|  | FLOODLIGHT   |
|  | LED LIGHT, PENDANT MOUNTED, TRIANGULAR SHAPE   |
|  | LED LIGHT, WALL MOUNTED  |
|  | LED LIGHT, WALL MOUNTED  |
|  | LED LIGHT, WALL MOUNTED  |

POWER

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|  | RECEPTACLE, DUPLEX, WALL MOUNTED, 20A, 125 VOLTS, NEMA 5-20R   |
|  | GENERATOR CONNECTED RECEPTACLES  |
|  | CONTROLLED DUPLEX RECEPTACLE, WALL MOUNTED, NEMA 5-20R, 20A, 125V, TOP RECEPTACLE SWITCHED BY AUTOMATIC MEANS. RECEPTACLE MUST BE MARKED PER NFPA 70 406.3 (E)     |
|  | CONTROLLED FOURPLEX RECEPTACLE, WALL MOUNTED, NEMA 5-20R, 20A, 125V, TOP RECEPTACLES SWITCHED BY AUTOMATIC MEANS. RECEPTACLE MUST BE MARKED PER NFPA 70 406.3 (E)  |
|  | CONTROLLED FOURPLEX RECEPTACLE, FLOOR MOUNTED, NEMA 5-20R, 20A, 125V, TWO RECEPTACLES SWITCHED BY AUTOMATIC MEANS. RECEPTACLE MUST BE MARKED PER NFPA 70 406.3 (E) |
|  | RECEPTACLE, GFI TYPE OUTLET, DUPLEX, WALL MOUNTED  |
|  | RECEPTACLE, FOURPLEX, WALL/FLOOR MOUNTED, 20A, 125 VOLTS, NEMA 5-20R   |
|  | SINGLE RECEPTACLE, 20A, WALL MOUNTED, 20A, 125 VOLTS, NEMA 5-20R   |
|  | RECEPTACLE, DUPLEX, 20A, 125 VOLTS, NEMA L5-20R  |
|  | RECEPTACLE, DUPLEX, 30A, 250 VOLTS, NEMA L6-30R  |
|  | EQUIPMENT CONNECTION   |
|  | NON-FUSIBLE SWITCH, HP RATED   |
|  | ELECTRIC PANELBOARD  |
|  | ELECTRICAL HANDHOLE  |
|  | PAD MOUNTED TRANSFORMER  |
|  | DRY TYPE TRANSFORMER   |
|  | INDICATOR, DETAIL: TOP HALF-DETAIL NUMBER<br>BOTTOM HALF-SHEET NUMBER (DETAIL LOCATION)  |

ONE LINE DIAGRAM

|  |   |
|--|---|
|  | MOLDED CASE CIRCUIT BREAKER (UNLESS OTHERWISE NOTED) AMPS |
|  | DISCONNECT, ISOLATION, OR SAFETY SWITCH                   |
|  | GROUND  |
|  | FUSE  |
|  | POWER TRANSFORMER   |
|  | CONNECTION  |
|  | LIGHTNING ARRESTER  |
|  | ATS- AUTOMATIC TRANSFER SWITCH                            |
|  | METER   |
|  | SURGE PROTECTION DEVICE                                   |

LINE TYPES

|  |  |
|--|--|
|  | RACEWAY, CONCEALED BELOW FINISH FLOOR OR GROUND. NUMBER OF WIRES WITHIN AS REQUIRED INCLUDING GROUND |
|  | UNDERGROUND PRIMARY LINE   |
|  | UNDERGROUND SECONDARY LINE   |
|  | EXISTING UNDERGROUND PRIMARY LINE  |

LIGHTNING PROTECTION AND GROUNDING

|  |  |
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|  | AIR TERMINAL                                 |
|  | COPPER CLAD GROUND ROD                       |
|  | COPPER CLAD GROUND ROD WITH GROUND TEST WELL |

DUCT SECTION

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|--|---|
|  | P - PRIMARY<br>S - SECONDARY<br>SP - SPARE (WITH PULLWIRE)<br>DUCT SECTION (SEE 1/E9.5) |
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SWITCHES AND LIGHTING CONTROLS

|               |   |
|---------------|---|
| WALL SWITCHES |   |
|               | 1-POLE, 20A, 120/277V AC ONLY, QUIET TYPE.  |
|               | 3-WAY, 20A, 120/277V AC ONLY, QUIET TYPE.   |
|               | 4-WAY, 20A, 120/277V AC ONLY, QUIET TYPE.   |
|               | CONTROLS LIGHT FIXTURE OR OUTLET WITH SUBSCRIPT "a" ETC.  |
|               | SOLID STATE DIMMER  |
|               | LOW VOLTAGE SWITCH, ONE BUTTON TYPE   |
|               | LOW VOLTAGE SWITCH, TWO BUTTON TYPE, PROGRAMMED FOR ON-OFF AND DIMMING CONTROL                  |
|               | LOW VOLTAGE SWITCH, FOUR BUTTON TYPE, PROGRAMMED FOR DIMMING CONTROL                            |
|               | LOW VOLTAGE SWITCH, EIGHT BUTTON TYPE, PROGRAMMED FOR DIMMING CONTROL                           |
|               | LOW VOLTAGE OVERRIDE SWITCH FOR AUTOMATIC LIGHTING CONTROLS. ZONE "1a", SWITCH "1" AS INDICATED |

OCCUPANCY AND VACANCY SENSORS

|  |   |
|--|---|
|  | OCCUPANCY SENSOR, CEILING MOUNTED COMBINATION TYPE AND 360 DEGREE COVERAGE UNLESS OTHERWISE NOTED                 |
|  | OCCUPANCY SENSOR, WALL MOUNTED COMBINATION TYPE AND 180 DEGREE COVERAGE UNLESS OTHERWISE NOTED, AUTO ON, AUTO OFF |
|  | VACANCY SENSOR, WALL MOUNTED COMBINATION TYPE AND 180 DEGREE COVERAGE UNLESS OTHERWISE NOTED, MANUAL ON, AUTO OFF |

DAYLIGHT PHOTOSENSORS

|  |   |
|--|---|
|  | DIGITAL, CEILING MOUNTED, INTERIOR DAYLIGHT SENSOR. SUBSCRIPT INDICATES SWITCH LEG(S) BEING CONTROLLED (WHEN PRESENT) |
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LIGHTING CONTROL PANELBOARD

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|  | LIGHTING CONTROL PANEL: PANEL CONTAINS RELAYS TO CONTROL LIGHTS AND RECEPTACLES. |
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DIGITAL ROOM CONTROLLERS

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|  | DIGITAL ROOM CONTROLLER. 'RC1' INDICATES SINGLE RELAY, 'RC2' INDICATES DUAL RELAYS, AND 'RC3' INDICATES TRIPLE RELAY. SUBSCRIPT 'L' INDICATES LIGHTING CONTROL AND 'R' INDICATES RECEPTACLE CONTROL. MOUNT IN JUNCTION BOX ABOVE ACCESSIBLE CEILING OR ON DIN RAIL ON WALL. WHEN LOCATED ABOVE ACCESSIBLE CEILING, PROVIDE LAMINATED LABEL STATING "LIGHTING (OR RECEPTACLE) ROOM CONTROLLER" ON CEILING GRID DIRECTLY BELOW DEVICE LOCATION. PROVIDE SEPARATE RELAY FOR EACH LOAD AND SEPARATE CONTROLLER FOR EACH CIRCUIT. |
|  | WIRING DIAGRAM ASSOCIATED WITH PROGRAMMABLE ROOM CONTROLLERS -DIAGRAM 1 IS INDICATED.  |

GENERAL NOTES AND SPECIFICATIONS

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION; RULES AND REGULATIONS OF THE DEPARTMENT OF PUBLIC WORKS, AND COMMONWEALTH UTILITY CORPORATION.

2. ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED WHERE LISTING IS AVAILABLE FOR THAT TYPE OF EQUIPMENT OR CONFORM TO ANSI OR NEMA STANDARDS. SUBMIT SHOP DRAWINGS AND PRODUCT INFORMATION CATALOG FOR APPROVAL.

3. WORKMANSHIP SHALL CONFORM TO CONSTRUCTION PRACTICES RECOMMENDED BY THE AMERICAN ELECTRICIANS HANDBOOK BY CROFT (LATEST EDITION) AND SHALL BE SUBJECT TO THE APPROVAL OF THE AGENCY WHO HAS JURISDICTION AND THE ENGINEER.

4. ANY DEVICE MAY BE RELOCATED FROM THE LOCATION SHOWN ON DRAWINGS PRIOR TO INSTALLATION AT THE DIRECTION OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

5. METALLIC ENCLOSURES, RACEWAYS, AND ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH REQUIREMENTS OF NEC ARTICLE 250. PROVIDE GROUND WIRE IN EVERY RACEWAY. SIZE IN ACCORDANCE WITH NEC TABLE.

6. OBTAIN AND PAY FOR PERMITS.

7. CONDUIT SHALL BE PVC (ENCASED IN CONCRETE AND BELOW GRADE), ALUMINUM (EXPOSED INSTALLATION), EMT (DRY LOCATIONS, CONCEALED ABOVE GRADE). 3/4" MINIMUM DIAMETER UNLESS OTHERWISE NOTED.

8. WIRING SHALL BE NEC TYPE THW, THWN OR XHHW, 600V. CONDUCTORS SHALL BE COPPER.

9. TEST: TESTING IN PRESENCE OF ENGINEER. RESULTS SUBMITTED FOR APPROVAL TO ENGINEER.

A. MEASUREMENT OF VOLTAGES AT SERVICE EQUIPMENT.

B. OPERATION TEST

C. INSULATION RESISTANCE

D. GROUNDING TEST

10. ELECTRICAL WORK SHALL BE UNDER FULL SUPERVISION OF A PROFESSIONAL ELECTRICAL ENGINEER OR A MASTER ELECTRICIAN REGISTERED TO PRACTICE IN CNMI. SUBMIT QUALIFICATIONS FOR REVIEW AND APPROVAL PRIOR TO STARTING ANY WORK.

11. PANELBOARD SHALL BE COMPLETE WITH COPPER BUS, ENCLOSURE AND TRIM, COMPLEMENT OF MOLDED PLASTIC CASE CIRCUIT BREAKERS WITH RATINGS AS INDICATED, AND COMPLETED TYPEWRITTEN CIRCUIT DIRECTORY.

12. SUBSTITUTE MATERIALS TO BE EQUAL QUALITY TO SPECIFIED ITEM. IF SUBSTITUTE MATERIALS ARE PROPOSED, SUBMIT SIX (6) COPIES OF SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING. PROVIDE SAMPLES OF SUBSTITUTE MATERIALS, IF REQUESTED TO EVALUATE EQUALITY OF PROPOSED SUBSTITUTION.

13. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP. WHEN NOTIFIED BY THE OWNER OF FAILURE OF ANY PART OF THE INSTALLATION DURING THE GUARANTEE PERIOD, CONTRACTOR SHALL REPAIR OR REPLACE THE DEFECTIVE PART AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER.

14. INSTALL FIXTURES INDICATED IN LUMINAIRE SCHEDULE COMPLETE WITH LAMPS, HANGERS, SUPPORTS, DRIVERS AND ACCESSORIES.

15. INSTALLATION AND WORKMANSHIP:

A. ALL WORK SHALL BE NEATLY EXECUTED, WORKMANLIKE IN APPEARANCE, SYMMETRICAL, PLUMB, UNIFORM, PROPERLY ALIGNED AND SECURED IN PLACE.

B. WIRING METHODS:

(1) USE SEALTITE FLEX FOR CONNECTION TO EQUIPMENT.

(2) ATTACH TO CONCRETE AND MASONRY WITH EXPANSION ANCHORS AND TO WOOD WITH WOOD SCREWS.

(3) SUPPORT RACEWAYS PER NEC.

(4) DO NOT SUPPORT RACEWAYS AND BOXES FROM AND ON MECHANICAL SYSTEMS.

(5) CABLES WILL NOT BE PERMITTED.

C. CONDUCTORS:

(1) MAKE SPLICES IN ACCESSIBLE LOCATIONS. MAKE SPLICES IN CONDUCTORS No. 10 AWG & SMALLER DIAMETER WITH INSULATED, PRESSURE-TYPE CONNECTOR. MAKE SPLICES IN CONDUCTORS No.8 AWG AND LARGER DIAMETER WITH SOLDERLESS CONNECTOR, AND COVER WITH INSULATION MATERIAL EQUIVALENT TO CONDUCTOR INSULATION.

(2) FORM WIRE NEATLY IN ENCLOSURES.

(3) IDENTIFY CONDUCTORS BY COLOR CODE - NEUTRAL WIRE TO BE WHITE AND GROUND WIRE TO BE GREEN.

D. CUT, DRILL AND PATCH AS REQUIRED. REPAIR ANY SURFACES DAMAGED OR MARRED. CUTTING, REPAIRS AND REFINISHING SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

E. CLEAN ALL SURFACES TO RECEIVE PAINT. PAINT ANY SURFACE DAMAGED DURING INSTALLATION.

F. REPAIR ALL SURFACES DAMAGED DURING THE INSTALLATION OF THE WORK SUBJECT TO THE APPROVAL OF THE ARCHITECT

G. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED WITH APPROVED FIRESTOPPING MATERIAL.

H. PROVIDE EXPANSION/DEFLECTION FITTING FOR CONDUITS PASSING THROUGH SEISMIC JOINTS.

I. PROVIDE CONDUIT SEAL FOR CONDUITS PASSING THROUGH AIR CONDITIONED AND NON-AIR CONDITIONED AREAS.

16. WIRING DEVICES:

A. SWITCHES: 20A - POLES AS INDICATED 120/277V, COLOR TO MATCH DEVICE PLATE.

B. RECEPTACLES: 20A, 125V. COLOR TO MATCH DEVICE PLATE.

17. DEVICE PLATES - PLASTIC - COLOR TO MATCH DEVICE.

18. OUTLETS - PROVIDE OUTLET BOXES TO SUIT CONDITIONS ENCOUNTERED. BOXES SIZED TO ACCOMMODATE CONDUCTORS PER NEC. MINIMUM SIZE OF BOX FOR USE WITH RACEWAY SYSTEMS TO BE 4" SQUARE BY 1-1/2" DEEP.

19. CIRCUIT BREAKERS AND SAFETY SWITCHES - GENERAL ELECTRIC, SQUARE D, ITE, WESTINGHOUSE OR CHALLENGER SAFETY SWITCH - HEAVY DUTY TYPE.

20. SUBMIT SHOP DRAWING AND CATALOG DATA FOR ALL MATERIALS FOR APPROVAL.

21. AT THE CONCLUSION OF THE WORK, THE CONTRACTOR SHALL INCORPORATE ALL CHANGES MADE, AND RECORDED, INTO THE SET OF REPRODUCIBLES IN A CLEAR, LEGIBLE AND REPRODUCIBLE MANNER. ALL STUB-OUTS SHALL BE DIMENSIONALLY LOCATED WITHIN THE BUILDING STRUCTURE. AS A CONDITION FOR ACCEPTANCE OF WORK, "AS-BUILT" REPRODUCIBLE SHALL BE SIGNED BY CONTRACTOR ATTESTING THAT ALL CHANGES HAVE BEEN INCORPORATED, DATED AND DELIVERED TO THE CONTRACTING OFFICER.

22. CONTRACTOR SHALL COORDINATE WORK WITH COMMONWEALTH UTILITY CORPORATION.

a) COORDINATE WITH CUC ENGINEERING 48 HOURS IN ADVANCE FOR INSPECTION OF HANDHOLE, CONDUIT INSTALLATION, TRANSFORMER PAD AND CONDUIT/DUCT MANDRELLING.

b) OWNER SHALL GRANT A UTILITY EASEMENT TO CUC FOR POWER LINE AND HANDHOLE PRIOR TO FINAL CONNECTION. CONTRACTOR SHALL COORDINATE AND PREPARE THE REQUIRED PAPER WORKS FOR THE OWNER.

c) APPLICATION FOR POWER SERVICE MUST BE SUBMITTED 8 MONTHS IN ADVANCE BEFORE FINAL CONNECTION/ENERGIZATION TO ALLOW FOR DELIVERY OF CUC MATERIALS AND EQUIPMENT.

d) ALL CONDUITS MUST BE CLEANED AND MANDRELLED IN THE PRESENCE OF A CUC INSPECTOR. ALL CONDUITS MUST BE PROVIDE WITH NYLON PULL ROPE OF 200 LBS. MINIMUM PULL STRENGTH.

e) ALL CUC CONDUITS/DUCTS, BENDS AND ELBOWS SHALL BE CONCRETE ENCASED THROUGHOUT THE WHOLE ROUTE.

23. CONDUITS, RACEWAYS, WIREWAYS, TELECOM, NETWORKING AND SECURITY SYSTEMS, ENCLOSURES AND PULL BOXES FOR SYSTEMS SHALL BE INSTALLED AT A MINIMUM OF 6 INCHES AWAY FROM ANY ELECTRICAL EQUIPMENT, DEVICES, LIGHT FIXTURES INCLUDING CONDUIT AND WIRING.

24. CONTRACTOR SHALL VISIT SITE TO BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO SUBMITTING BID.

25. CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER IMMEDIATELY IN WRITING OF DISCREPANCIES BETWEEN PLAN AND ACTUAL CONDITIONS PRIOR TO SUBMITTAL OF BID.

26. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CONTRACTING OFFICER AND THE USING AGENCY PRIOR TO STARTING WORK.

27. DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITION AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

28. THE CONTRACT DRAWING ARE SHOWN IN PART DIAGRAMMATIC, AND INTEND TO CONVEY THE SCOPE OF WORK, INDICATING THE INTENDED GENERAL ARRANGEMENT OF EQUIPMENT, CONDUIT, AND OUTLETS. FOLLOW THE DRAWINGS IN LAYING OUT THE WORK AND VERIFY SPACES FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT BASED ON ACTUAL DIMENSIONS OF EQUIPMENT FURNISHED. WHEREVER A QUESTIONS EXISTS REGARDING THE INTENDED LOCATION OF OUTLETS OR EQUIPMENT, CIRCUITING, ETC., OBTAIN INSTRUCTION FROM THE CONTRACTING OFFICER BEFORE PROCEEDING WITH THE WORK.

29. COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM.

30. PROVIDE MINIMUM 6" HIGH CONCRETE PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO: SWITCHBOARD, GENERATOR, ATS AND TRANSFORMERS.

31. ADJUST LOCATION OF ALL NEW ELECTRICAL EQUIPMENT AND WIRINGS AS REQUIRED TO CLEAR BUILDING OBSTRUCTIONS AND OTHER EQUIPMENT AS NECESSARY TO COMPLY WITH NEC CLEARANCES. PROVIDE ALL BRACKETS, HANGERS, METAL CHANNELING AND FASTENERS TO PROPERLY INSTALL THE ELECTRICAL EQUIPMENT AND WIRING.

32. PROVIDE FIELD LABELING OF ALL NEW BRANCH CIRCUITS AND RECEPTACLE DEVICES TO INDICATE PANELBOARD AND CIRCUIT NUMBER OF SOURCE. PROVIDE LABELING ON DEVICE COVER PLATE OR J-BOX COVER.

33. IN AREAS WITH GYPSUM BOARD CEILINGS, THE ELECTRICAL TRADES MUST ROUTE CONDUIT AND POSITION PULL/JUNCTION BOXES TO ALLOW ACCESS THRU ACCESS PANELS BY ARCHITECTURAL TRADES, WHERE POSSIBLE. WHERE ADDITIONAL ACCESS PANELS ARE REQUIRED FOR ELECTRICAL EQUIPMENT, THE ELECTRICAL TRADES MUST INCLUDE THE ACCESS PANEL IN BID. ACCESS PANEL MUST BE INSTALLED BY CEILING INSTALLER. ADDITIONAL PANEL LOCATIONS MUST BE APPROVED BY THE ARCHITECT.

34. ALL EMERGENCY WIRING MUST BE IN SEPARATE CONDUIT FROM NON-EMERGENCY WIRING..

35. ALL UNDERGROUND CONDUIT ROUTING MUST BE FILLED COORDINATED WITH EXISTING UNDERGROUND UTILITIES.

IF SHEET IS LESS THAN 24" X 36"  
REDUCED PRINT - USE GRAPHIC SCALES

| REVISIONS |             |         |
|-----------|-------------|---------|
| No.       | Description | Date    |
|           | ADDENDUM 1  | 12/6/22 |
|           | ADDENDUM 2  | .       |
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PONCE V. MARIANO

REGISTERED  
PROFESSIONAL  
ENGINEER  
373

COMMONWEALTH of NORTHERN MARIANA ISLANDS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED  
BY ME OR UNDER MY DIRECT SUPERVISION  
*Ponce V. Mariano*  
DATE: 10/7/2022

Project:  
  
NMC  
  
PACKAGE 1: STUDENT  
CENTER BUILDING

ELECTRICAL GENERAL NOTES, SPECIFICATIONS AND SYMBOL LIST

CONSTRUCTION DOCUMENTS

|             |              |
|-------------|--------------|
| Designed:   | JF/LB        |
| Drawn:      | NP/RS        |
| Checked:    | IA/AM        |
| Supv:       | AM           |
| Scale:      | AS INDICATED |
| Date:       | 10/07/2022   |
| Project No. | File         |
| Drawing No. | E1.0         |
| Sheet No.   | of           |