OF ALL EQUIPMENT.

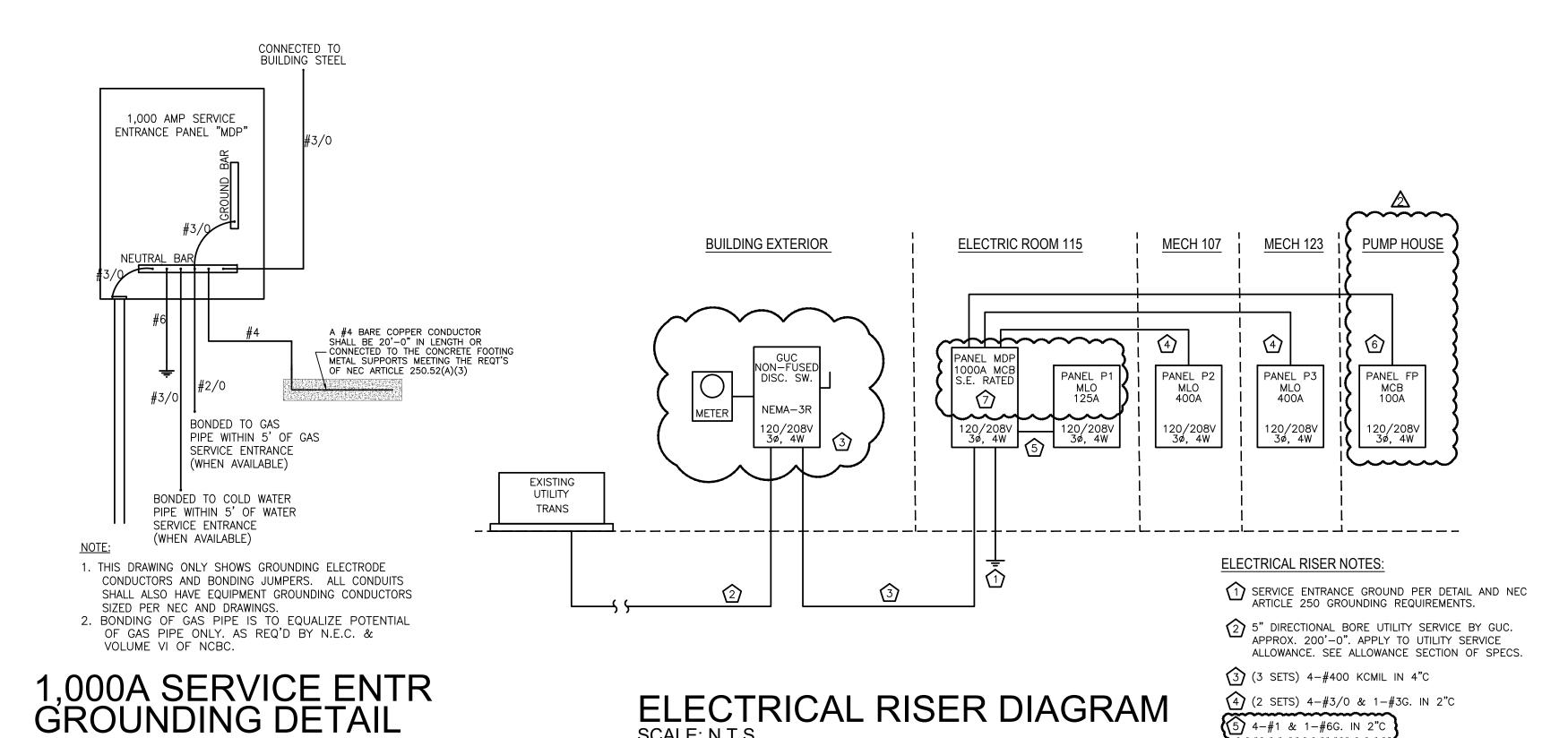
SCALE: N.T.S.

ELECTRICAL CONNECTION DETAIL SCALE: N.T.S.

| ELECTRICAL SUMMARY | | | | | |
|--|--|--|--|--|--|
| ELECTRICAL SYSTEM AND EQUIPMENT | | | | | |
| METHOD OF COMPLIANCE: | | | | | |
| ENERGY CODE: PRESCRIPTIVE \(\text{\omega} \) PERFORMANCE \(\text{\omega} \) ASHRAE 90.1: PRESCRIPTIVE \(\text{\omega} \) PERFORMANCE \(\text{\omega} \) | | | | | |
| LIGHTING SCHEDULE | | | | | |
| LAMP TYPE REQUIRED IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING) NUMBER OF LAMPS IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING) BALLAST TYPE IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING) NUMBER OF BALLASTS IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING) TOTAL WATTAGE PER FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING) | | | | | |
| TOTAL INTERIOR WATTAGE SPECIFIED .VS. ALLOWED: 17,600W VS. 21,457W EXTERIOR LIGHTING ZONE: 3 EXTERIOR LIGHTING WATTAGE SPECIFIED .VS. ALLOWED: 800W VS. 1,350W | | | | | |
| ADDITIONAL PRESCRIPTIVE COMPLIANCE | | | | | |
| C406.2 More Efficient HVAC Equipment Performance | | | | | |
| X C406.3 Reduced Lighting Power Density | | | | | |
| C406.4 Enhanced Digital Lighting Controls | | | | | |
| C406.5 On-Site Renewable Energy | | | | | |
| C406.6 Dedicated Outdoor Air System | | | | | |
| C406.7 Reduced Energy Use in Service Water Heating | | | | | |
| DESIGNER STATEMENT: | | | | | |
| To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the North Carolina Building Code, Energy Conservation Code. | | | | | |
| SIGNED: | | | | | |
| NAME: D. WILSON POU, P.E. | | | | | |
| TITLE: PROFESSIONAL ENGINEER | | | | | |

| TYPE | DESCRIPTION | LAMPS | VOLTS | WATTS | B.F. |
|----------|---|---------------|------------|--------|------|
| A1 | 2'x4' LAY-IN LED FLAT PANEL WITH ACRYLIC LENS. PROVIDE WITH LOW LUMEN PACKAGE (3,000-4,000 LUMENS). PROVIDE - COLUMBIA#: SRP24-40VWHE-G-U LITHONIA#: EPANL-2X4-3000LM-80CRI-40K-MVOLT OR WILLIAMS#: LP-24-L50-8-40-UNV | LED | MULTI | 27W | - |
| A2 | 2'x4' LAY-IN LED FLAT PANEL WITH ACRYLIC LENS. PROVIDE WITH MEDIUM LUMEN PACKAGE (4,600-5,600 LUMENS). PROVIDE - COLUMBIA#: SRP24-40ML-G-U LITHONIA#: EPANL-2X4-4800LM-80CRI-40K-MVOLT OR WILLIAMS#: LP-24-L50-8-40-UNV | LED | MULTI | 45W | - |
| В | 6" RECESSED LED FIXTURE, MEDIUM CUTOFF ANGLE. 4500 LUMENS, DIMMING DRIVER. PROVIDE — PRESCOLITE#: LTR-6RD-30L-40K-WD-S-DM1-UNV LITHONIA#: LDN6-40-40-L06-AR-LSS-MVOLT-GZ10 OR WILLIAMS#: 6DR-TL-L40-8-40-DIM1-UNV-O-W-CS | LED | MULTI | 45W | - |
| BE | SAME AS "B" FIXTURE ABOVE. "E" INDICATES THAT THE FIXTURE HAS BATTERY BACK-UP FOR EMERGENCY EGRESS OPERATION. | | | | |
| С | 8' ASYMMETRIC THROW LINEAR LED INDIRECT SOFFIT LIGHT. 1,000 LUMENS/LF, DIMMING DRIVER, CLEAR LENS. (48FT RUN) PROVIDE: EF ILLUMINATION#: EN6C-12F-8040-PL-D2-096-UNV-W LITHONIA#: WILLIAMS#: | LED | MULTI | 12W/LF | - |
| G | ROUND ARENA STYLE LED LIGHT FIXTURE WITH ALUMINUM HOUSING AND MEDIUM DISTRIBUTION. PROVIDE WITH DIMMING DRIVER AND WIRE GUARD. PROVIDE: TOPAZ #: FLUB-300W-50-UNV-WG OR DAY-BRITE#: HCY-2833-80/50-UNV-WG OR RAB #: H17-XL-50-W-UNV-WG | LED | UNV | 300W | - |
| GE | SAME AS "G" FIXTURE ABOVE. "E" INDICATES THAT 1/3 OF THE LEDS IN THE THE FIXTURE HAVE BATTERY BACK-UP FOR EMERGENCY EGRESS OPERATION. | | | | |
| S | 4' LOW PROFILE LED LIGHT FIXTURE WITH MEDIUM LUMEN OUTPUT (3,500-4,000 LUMENS) AND FROSTED ACRYLIC LENS. PROVIDE COLUMBIA #: MPS-4-40-LW-F-N-E-U OR WILLIAMS #: 75S-4-L30-80-40-DIM-U OR LITHONIA #: ZLN1-L48-3000LM-FST-MVOLT-40K-80CRI-WH | LED | MULTI | 20W | - |
| SH | LED SHOWER UL LISTED DOWNLIGHT. PROVIDE LITHONIA #: EVO6SH WAC LIGHTING — OCULUX LIGHTOLIER — LYTEPROFILE | LED | UNIV | 30W | - |
| WA | EXTERIOR LED WALL PACK WITH HEAVY DUTY TWO PIECE, DIE-CAST ALUMINUM HOUSING WITH CLEAR PRISMATIC BOROSILICATE GLASS LENS. LARGE SIZE AND UL LISTED FOR WET LOCATIONS. PROVIDE DECO #: D404-LED-80-40-UNV-BZ-FC-PC OR LITHONIA #: TWR2-LED-1-50K-MVOLT-DDB OR MAXLITE #: MLLWP60LED50PC27-150 | LED | UNV | 80W | - |
| OR S | CEILING OR WALL MOUNTED LED EXIT LIGHT CONFORMING TO NFPA 101 STANDARDS, w/ BATTERY & SOLID STATE CHARGER, SELF DIAGNOSTICS w/ A TEST CYCLE EVERY 30 DAYS MINIMUM, SELF—CONTAINED, DOUBLE OR SINGLE WHITE FACE/BODY, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS, TEST SWITCH, & 90 MIN. EMERGENCY RUN TIME; EXIT SIGN SHALL HAVE 5 YEAR WARRANTY. PROVIDE HUBBELL #: CER50 OR WILLIAMS #: EXIT—R—EM—WHT—SDT OR LITHONIA #: LQM—S—W—3—R—120/277—ELN—SD | RED LED | 120/ 6V | 3.5W | N/A |
| \ | AUTOMATIC, SELF—CONTAINED, SELF DIAGNOSTIC, MAINTENANCE FREE 2—HEAD EMERGENCY LIGHT. UL 924 LISTED AND NFPA 101 COMPLIANT, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS. SELF DIAGNOSTICS SHALL INCLUDE CONTINUOS SELF CHECKS AND 30 MINUTE FULL LOAD TEST WITH CHARGER OFF EVERY 30 DAYS. PROVIDE HUBBELL #: CU2SD OR WILLIAMS #: EMER/LED—WHT—HL—SDT OR LITHONIA #: EU2—LED—M12 | 2-10W | 120/ 6V | 20W | N/A |
| 484 | CEILING OR WALL MOUNTED LED EXIT & 2—HEAD EMERGENCY LIGHT CONFORMING TO NFPA 101 STANDARDS, W/ BATTERY & SOLID STATE CHARGER, SELF DIAGNOSTICS W/ A TEST CYCLE EVERY 30 DAYS MINIMUM, SELF—CONTAINED, DOUBLE OR SINGLE WHITE FACE/BODY, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS, TEST SWITCH, & 90 MIN. EMERGENCY RUN TIME, EXIT LIGHT SHALL CONTINUE TO OPERATE FOR 24 HOURS FOLLOWING POWER OUTAGE; EXIT SIGN SHALL HAVE 5 YEAR WARRANTY. PROVIDE HUBBELL #: CCRSD OR LITHONIA #: LHQM—LED—R—HO—SD OR WILLIAMS #: EXIT/EM/LED—SF—R—WHT—HL—SDT | 2-10W HALOGEN | 120/ 6V | 20 | N/A |
| 44 | WALL MOUNTED SCONCE LIGHT WITH PREMIUM MARINE GRADE DIE—CAST ALUMINUM HOUSING AND POLYCARBONATE GASKETED LENS TO WITHSTAND EXTREME WEATHER CONDITIONS. MOUNT ABOVE EXTERIOR DOOR. EMERGENCY LIGHT SHALL CONFORM WITH NFPA 101 STANDARDS AND NEC—700.16. PROVIDE HUBBELL #: CUWZ—PC OR WILLIAMS #: EMER/DECO—DBR—LT OR LITHONIA #: AFN—DB—EXT | 2-6W | 120/ 6V | 12W | - |

LIGHT FIXTURE SCHEDULE



ELECTRICAL SYMBOL LEGEND SYMBOL DESCRIPTION DUPLEX CONVENIENCE OUTLETS FOR GENERAL USE SHALL BE RATED 20 AMPERES, 125 VOLTS, DUPLEX, FOR STANDARD PARALLEL BLADE THREE—WIRE GROUNDED TYPE CAPS, HUBBELL NO. 5362 (BROWN) OR 5362—I (IVORY), OR EQUAL. \Rightarrow QUADRUPLEX OUTLET AS SPECIFIED 240V OUTLET - AMPERAGE PER CIRCUIT BREAKER FED FROM U GFI DUPLEX OUTLET - GFI AS SPECIFIED WP/GFI DUPLEX OUTLET - GFI - EXTERIOR WATERPROOF AS SPECIFIED HORIZ DUPLEX OUTLET - INSTALL HORIZONTALLY TP TAMPER PROOF DUPLEX OUTLET EQUAL TO HUBBELL No. SG62 TVSS DUPLEX w/ TRANSIENT VOLTAGE SURGE SUPPRESSION w/ LIGHT (NEMA 5-15), EQUAL TO HUBBELL No. 5260 NEMA 5-20R ISOLATED GROUND RECEPTACLE WATERTIGHT TWISTLOCK RECEPTACLE IN KITCHEN UTILITY DISTRIBUTION WAL DUAL COMPARTMENT ALUMINUM RACEWAY SYSTEM, WIREMOLD No. ALA4800~w/TWIN COVER; COLOR SELECTED BY ARCHITECT (SEE PLANS FOR RECEPTACLE & DATA OUTLET QUANITITES & LOCATIONS) RECEPTACLES MOUNTED IN STEEL CITY GAB SERIES AFM PRE SET FLOOR BOX. EACH BOX CONTAINS (6) DUPLEX RECEPTS (TYPICAL). SECURE SQUARE OF CARPET TO MATCH IN LID OF BOX (BY ELECT. CONTR., TYP) DATA OUTLETS MOUNTED IN STEEL CITY GAB SERIES AFM PRE SET FLOOR BOX. EACH BOX CONTAINS (4) DUAL DATA OUTLETS (TYPICAL). ROUTE (2) 1 ."C FROM EACH BOX BACK TO MDF ROOM. SECURE SQUARE OF CARPET TO MATCH IN LID OF BOX (BY ELECT. CONTR., TYP) FIRE ALARM INITIATING DEVICES; SEE LEGEND SHEET E-004 FIRE ALARM NOTIFICATION DEVICES; SEE LEGEND SHEET E-004 VOICE/DATA DEVICES, SEE ICS LEGEND SHEETIC-101. E.C. RESPONSIBLE FOR ROUGH-IN AS INDICATED ON ELECTRICAL DRAWINGS SECURITY DEVICES; SEE LEGEND THESE DWGS. E.C. RESPONSIBLE FOR ROUGH-IN AS INDICATED ON ELECTRICAL DRAWINGS SINGLE POLE SWITCH - 48" A.F.F. U.O.N., 20 AMP, 120/277 VOLT, SPECIFICATION GRADE \$3,\$4 3 OR 4-WAY SWITCH - 48" A.F.F. U.O.N., SPECIFICATION GRADE, SEE SPECIFICATION SECTION 16140 DIMMER SWITCH RATED FOR LOAD - 48" A.F.F., LUTRON No. MAR OR APPROVED EQUAL DOUBLE POLE SINGLE THROW SWITCH - 48" A.F.F. MASTER / SATELLITE OR SPLIT BALLAST WIRING - SEE DETAILS THESE DRAWINGS ELECTRONIC LIGHTING CONTROLLER AS SPECIFIED MOTOR STARTER SWITCH w/ PILOT LIGHT, HUBBELL No. HBL3031PL OR EQUAL BY SQUARE D VERTICAL J-BOX FOR THERMOSTATS & SENSORS - 54"AFF U.O.N ?" E.C. TO UTILITY PLATFORM; COORDINATE w/ M.C. FUSED EQUIPMENT DISCONNECT U.O.N.- SEE SPECIFICATION SECTION 16400 COMBINATION START/STOP BUTTON MOTOR STARTER- SQUARE D No. MBG2 FOR WELDING (EF-6D) & SQUARE D No. MCG3 FOR CARPENTRY (EF-6E) EMERGENCY STOP BUTTON — STI No. 040 OR APPROVED EQUAL WITH STOPPER II WARNING ALARM COVER, INDICATOR LIGHT, KEY RESET, YELLOW COLOR, & "EMERGENCY" GRAPHIC MESSAGE (J) or J | JUNCTION BOX, FLUSH MOUNTED IN ALL FINISHED SPACES ELECTRICAL PANEL AS SPECIFIED - SEE SPECIFICATION SECTION 16400 GROUNDING ELECTRODE CONDUCTOR INSTALLED IN ACCORDANCE WITH 1999 NEC ARTICLES 250-26 &/or 250-81 REFER TO KEY NOTE No. 2 CEILING MOUNT SPEAKER BY TECHNOLOGY CONTRACTOR UNDER DIVISION 17 RECESSED WALL MOUNT SPEAKER BY TECHNOLOGY CONTRACTOR, FURNISH & INSTALL BACKBOX & RACEWAY TO UTILITY RECESSED WEATHER-PROOF WALL MOUNT SPEAKER BY TECHNOLOGY CONTRACTOR UNDER DIVISION 17; E.C. FURNISH & INSTALL BACKBOX & RACEWAY TO UTILITY PLATFORM CEILING MOUNTED SPACE OCCUPANCY SENSOR FOR LIGHTING CONTROL (SEE OC SENSOR LEGEND FOR TYPE DESCRIPTIONS.) WALL MOUNTED SPACE OCCUPANCY SENSOR FOR LIGHTING CONTROL (SEE OC SENSOR LEGEND FOR TYPE DESCRIPTIONS.) EMERGENCY LIGHTS AS SPECIFIED - SEE LIGHT FIXTURE SCHEDULE FUTURE CCTV CAMERA BY OWNER UNDER SEPARATE CONTRACT - PROVIDE f"C FROM BELOW UTILITY PLATFORM TO CABLE MANAGEMENT HOOK ABOVE; CABLE UNDER DIVISION 17 VIDEO STUDIO CAMERA BY OWNER EXIT SIGN w/ DIRECTIONAL ARROW(S) & BATTERY BACK-UP - SEE LIGHT FIXTURE SCHEDULE EXIT SIGN w/ BATTERY BACK-UP & EM LIGHTS - SEE LIGHT FIXTURE SCHEDULE DRY-TYPE TRANSFORMER AS SPECIFIED - SEE RISER DIAGRAMS, INSTALLATION DETAILS, & SPECIFICATION SECTION 16460 SLEEVE ROUGH-INS UNDER PAVING/CONCRETE; 3" FOR FUTURE USE, & 2" FOR SITE LIGHTING BY CP&L UNDERGROUND PRIMARY ELECTRICAL FEEDERS BY ELECTRICAL UTILITY UNDERGROUND SECONDARY ELECTRICAL FEEDERS BY ELECTRICAL CONTRACTOR BLONDER-TONGUE BIDA SERIES CATV AMPLIFIER INSIDE No. IRN-1924 TO FUTURE GROUND MOUNTED SATELLITE BY OWNER CABLE TV CABLING BY OTHERS OR EQUIVALENT NEMA 1 LOCKABLE CAB'T AUSTIN CO. OR EQUAL - TELCOM - TELECOMMUNICATIONS CABLING BY OTHERS FIBER OPTIC CABLE BY TECHNOLOGY CONTRACTOR; WIRE MANAGEMENT BY E.C. RACEWAY AS SPECIFIED CONCEALED ABOVE CEILING RACEWAY AS SPECIFIED CONCEALED U.G. HOME-RUN TO PANEL w/ CONDUCTORS, NEUTRAL, & GROUND CABLE TRAY (CENTER SPLINE & LADDER TYPES), SEE DETAILS THESE DRAWINGS ABBREVIATIONS: A.C. ABOVE CEILING C CONDUIT AS SPECIFIED A.F.F. ABOVE FINISH FLOOR NL 24 HOUR NIGHT LIGHT A.H.J. AUTHORITY HAVING JURISDICTION NTS NOT TO SCALE P.B. PUSH BUTTON EWC ELECTRIC WATER COOLER TECHNOLOGY CONTRACTOR EWH ELECTRIC WATER HEATER TP TAMPER-PROOF GROUND CONDUCTOR U.O.N. UNLESS OTHERWISE NOTED G.C. GENERAL CONTRACTOR U.G. UNDERGROUND P.C. PLUMBING CONTRACTOR WP WEATHERPROOF ENCLOSURE

GENERAL ELECTRICAL NOTES

- 1. DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL PLANS.
- 2. REFERENCE SPECIFICATIONS AND ARCHITECTURAL, STRUCTURAL, PLUMBING, & HVAC DRAWINGS PRIOR TO CONSTRUCTION.
- 3. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO SHOW MINOR DETAILS AND EXACT LOCATIONS. DESIGN ADJUSTMENTS SHALL BE ANTICIPATED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- 4. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT NEC/NFPA 70. CONTRACTOR SHALL NOTIFY ENGINEER REGARDING ANY CODE DISCREPANCIES SHOWN ON PLAN. ANY PERMIT OR INSPECTION FEES ARE THE RESPONSIBILITY OF THE ELECTRICAL
- 5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE METHOD & HAVE NOT BEEN VERIFIED; CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK & IS RESPONSIBLE FOR ANY DAMAGE INCURRED BY FAILURE TO DO SO. EACH PRIME CONTRACTOR PERFORMING EXCAVATIONS OR UNDERGROUND WORK SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY EXISTING UTILITIES IN THE AREA OF THEIR WORK. NOTIFY THE UTILITY LOCATOR SERVICE (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION IN ORDER THAT EXISTING UTILITIES IN THE AREA MAY BE FLAGGED AND CONTRACTOR SHALL USE ALL CARE NECESSARY WHEN WORKING IN AREAS KNOWN OR
- SUSPECTED TO CONTAIN UNDERGROUND UTILITIES, INCLUDING HAND DIGGING.

 6. CONTRACTOR SHALL INSTALL, GROUND AND BOND SYSTEM PER THE CURRENT NEC.
- 7. CONTRACTOR SHALL NOT PUT MORE THAN SIX (6) DUPLEX RECEPTACLES ON ANY GIVEN 1P-20A CIRCUIT UNLESS SHOWN OTHERWISE.
- 8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL FIXTURES AND EQUIPMENT WITH OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION TO AVOID CONFLICTS. CONTACT ARCHITECT IF ALTERNATE INSTALLATION METHOD IS REQUIRED.

9. NOT USED. 10. NOT USED.

- 11. MINIMUM WIRE SIZE SHALL BE #12 AWG., MINIMUM CONDUIT SIZE SHALL BE 3/4".
- 12. CONTRACTOR SHALL COORDINATE TELEPHONE AND DATA OUTLETS REQUIRED WITH OWNER PRIOR TO GYP. BOARD BEING INSTALLED.
- 13. HALLWAY AND MAINTENANCE RECEPTACLES SHALL NOT BE CIRCUITED WITH OFFICE OR OTHER GENERAL PURPOSE RECEPTACLES.
- 14. ELECTRICAL CONTRACTOR SHALL PROVIDE HACR RATED CIRCUIT BREAKERS ON ALL HVAC EQUIPMENT.
- 15. CONDUCTORS SHALL BE TYPE THHN, THWN, OR THW. BRANCH CIRCUIT CONDUCTOR SHALL NOT BE SMALLER THAN No. 12 AWG., EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. HOME RUNS ORIGINATING MORE THAN 80' AT 120V FROM PANEL LOCATION SHALL BE No. 10 AWG MINIMUM SIZE. WIRES No. 10 AWG AND SMALLER SHALL BE SOLID; WIRES No. 8 AWG AND LARGER SHALL BE STRANDED. PROVISIONS OF SECTION 210-5 COLOR CODE, NEC, SHALL BE STRICTLY COMPLIED WITH AND BE CONSISTENT THROUGHOUT ENTIRE SYSTEM.
- 16. ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH CURRENT NEC TABLE 250-122. HASHMARK FOR GROUNDING CONDUCTOR IS NOT INDICATED ON THESE DRAWINGS. RACEWAY SHALL NOT BE USED AS EQUIPMENT GROUND.
- 17. IN ADDITION TO MECHANICAL FASTENING TO CEILING TRACK, SUPPORT LIGHT FIXTURES AT EACH CORNER INDEPENDENTLY OF SUSPENDED CEILING WITH 12 GAUGE WIRE. CONNECT TO STRUCTURAL SYSTEM OF BUILDING.
- 18. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT SHALL HAVE A PULL WIRE.
- 19. ALL CONDUIT FITTINGS SHALL BE COMPRESSION TYPE WITH INSULATED THROATS. ALL
- EXTERIOR CONDUIT FITTINGS SHALL BE LISTED FOR USE IN WET LOCATIONS PER 2017 NEC ARTICLE 314.
- 20. SERVICE ENTRANCE CONDUCTORS SHALL BE IN CONDUIT (RIGID OR PVC). EXTERIOR CONDUIT EXPOSED ABOVE SLAB SHALL BE RIGID. INTERIOR CONDUIT EXPOSED SHALL BE ELECTRICAL METALLIC TUBING (EMT). EMT SHALL BE COLD—ROLLED STEEL TUBING WITH A COATING ON THE OUTSIDE AND PROTECTED ON THE INSIDE BY A ZINC, ENAMEL, OR EQUIVALENT CORROSION RESISTANT COATING AND CONFORMING TO THE REQUIREMENTS OF ANSI C 80.3—1996 OR LATER EDITION. ALL UNDERGROUND CONDUIT SHALL BE UL LISTED SCHD 40 PVC CONFORMING TO ARTICLES 352 & 300 OF THE NEC. WHERE SCHD 40 PVC IS INSTALLED BELOW GRADE OR UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., SHALL BE OF RIGID STEEL AND SHALL CONTINUE AS RIGID STEEL TO THE CABINET, EQUIPMENT, ETC.
- 21. ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER.
- 22. ALL 1P-20A CIRCUITS SHALL BE 2-#12 & 1-#12G IN 3/4"C U.N.O.

 23. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL VOLUMES OF THE NCSBC,

CIRCUITS CONCEALED IN STUD WALLS OR ABOVE CEILINGS MAY BE MC CABLE.

- INSPECTORS HAVING JURISDICTION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.

 24. EACH PIECE OF ELECTRICAL GEAR, EQUIPMENT, ETC., SHALL BEAR A "UL" LABEL.
- 24. EACH PIECE OF ELECTRICAL GEAR, EQUIPMENT, ETC., SHALL BEAR A "UL" LABEL.

 25. METAL ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT ELECTRICAL ITEMS.
- 26. ALL EMERGENCY AND EXIT LIGHTS SHALL BE CONNECTED TO THE UNINTERRUPTED SIDE OF THE LOCAL LIGHTING CIRCUIT.
- 27. INSTALL ENGRAVED PHENOLIC LABELS ON ALL ELECTRICAL GEAR, DISCONNECTS, ETC. FASTEN WITH SCREW FASTENERS.

 28. WHERE PROVIDED BY E.C. DISCONNECTS SHALL BE HEAVY DUTY NEMA—1 RATED AT ALL INTERIOR LOCATIONS INDICATED AND HEAVY DUTY NEMA—3R RATED AT ALL EXTERIOR
- LOCATIONS INDICATED ON THESE DRAWINGS.

 29. VERIFY WITH OWNER LOCATION/TYPE OF ALL FIXTURES, PANEL BOXES, OUTLET PLACEMENT, ETC. BY HOLDING AN ELECTRICAL WALKTHROUGH ON THE BUILDING SITE ONCE FRAMING IS
- 30. ELECTRICAL BOXES INSTALLED IN U.L. RATED WALLS SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY OTHER ELECTRICAL BOX IN THAT WALL.
- 31. LIGHTING SWITCHES, RECEPTACLES AND/OR DATA OUTLETS SHALL NOT BE MOUNTED BACK TO BACK IN ANY WALL.
- 32. CABLE LOCATED IN PLENUMS SHALL BE PLENUM—RATED. ALL CABLE INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.
- 33. E.C. SHALL INSTALL COMPLY WITH ANSI A117.1 FOR OUTLET AND CONTROL SWITCH MOUNTING
- HEIGHTS FOR ADA ACCESSIBILITY.

 34. E.C. SHALL BE RESPONSIBLE FOR ALL LINE SIDE AND LOAD SIDE WIRING ON ALL EQUIPMENT REQUIRING ELECTRICAL POWER EXCEPT EQUIPMENT PROVIDED BY OTHERS REQUIRING A FUSED DISCONNECT SWITCH. E.C. SHALL BE RESPONSIBLE FOR LINE SIDE WIRING AND INSTALLING FUSED DISCONNECT FOR EQUIPMENT PROVIDED BY OTHERS. LOAD SIDE WIRING AND FUSING FOR EQUIPMENT PROVIDED BY OTHERS SHALL BE PROVIDED BY THE RESPECTIVE CONTRACTOR. (SEE DETAIL)
- 35. ALL HOLES CUT IN FLOOR, CEILING AND WALLS SHALL BE CORE-DRILLED OR SAWED.
- 36. WHERE DISTANCE TO FIRST OUTLET ON A 20 AMP CIRCUIT EXCEEDS 100 FEET, MINIMUM SIZE OF CONDUCTOR TO BE #10 AWG TO FIRST OUTLET
- 37. CONDUIT SHALL NOT BE RUN EXPOSED IN FINISHED AREAS UNLESS APPROVED BY ARCHITECT / OWNER. CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALL & FLOOR CONSTRUCTION IN FIRST CLASS WORKMANSHIP MANNER. CONDUIT SHALL BE BENT IN ACCORDANCE WITH NEC MINIMUM RADIUS REQUIREMENTS. WHERE SCHD 40 PVC IS INSTALLED UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., WHERE SUBJECT TO DAMAGE, SHALL BE OF RIGID STEEL
- 38. PROVIDE 3" WIDE RED MAGNETIC WARNING TAPE MARKED "BURIED ELECTRIC LINE BELOW" SIX INCHES BELOW FINISH GRADE FOR ALL U.G. CONDUIT.
- 40. ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER; PROVIDE COVER PLATES AS SPECIFIED IN SECTION 16140
- 41. THE TERM "VERIFY" RELATIVE TO THESE DRAWINGS SHALL BE DEFINED AS OBTAINING EQUIPMENT INSTALLATION INSTRUCTIONS FROM EQUIPMENT SUPPLIER OR OBTAINED OWNER'S REPRESENTATIVE'S APPROVAL.

SEE ARCHITECTURAL SECTIONS FOR MOUNTING HEIGHTS ON ALL ELECTRICAL DEVICES PRIOR TO ANY ROUGH—INS AND ELECTRICAL WORK.

(6) 4-#3 & 1-#6G. IN 1.5"C

PROVIDE PLAQUE WITH AIC & ARC FLASH INFORMATION PROVIDED BY GUC PER NEC REQT'S.

PROVIDE PHENOLIC LABELS TO ALL DISCONNECT SWITCHES, MOTOR RATED SWITCHES, PANELS, WATER HEATERS, HVAC EQUIPMENT.

NOTE: LEGEND IS FOR REFERENCE ONLY - SYMBOLS/ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT

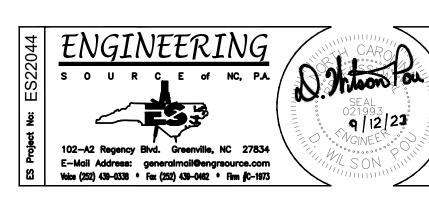
U.P. UTILITY PLATFORM

M.C. MECHANICAL CONTRACTOR

E.C. ELECTRICAL CONTRACTOR OR EMPTY CONDUIT

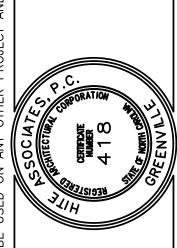
B-2 TYPICAL CIRCUIT DESIGNATION: PANEL 'B', BREAKER #2

EC SHALL PROVIDE TAMPER PROOF
RECEPTACLES IN ALL CLASSROOMS AND
AREAS ACCESSABLE TO STUDENTS.
RECEPTACLES MUST MEET REQUIREMENTS
OF 2017 NEC. SEE 406.2 AND 406.12.



1 9/12/23 PRE-BID MTG & ADDENDUM #1
No. Date Revision

HITE SSOCIATED SCHOOLOGY REHITECTURE / PLANNING / TECHNOLOGY



Y CENTER AND GYMNASIUM FOR Keene District Pa

Project No.
22207

Date:
July 2023

Drawing no.

E 001