

GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C. 2012), THE LIFE SAFETY CODE, ALL APPLICABLE STATE, AND LOCAL CODES.
2. ALL ELECTRICAL EQUIPMENT SHALL BE NEW U.O.N., SHALL MEET NEMA STANDARDS, AND SHALL BE UNDERWRITERS LABORATORY (U.L.) LABELED OR LABELED BY AN APPROVED ACCREDITED AGENCY AND TESTING ORGANIZATION.
3. PRIOR TO BID, THE CONTRACTOR SHALL EXAMINE ALL PROJECT DOCUMENTS AND VISIT THE SITE PRIOR TO BID TO DEVELOP A COMPLETE UNDERSTANDING OF THE PROJECT SCOPE. FAILURE TO REVIEW ALL CONTRACT DRAWINGS AND EXISTING CONDITIONS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM ALL WORK REQUIRED. THE CONTRACTOR SHALL, UPON REVIEW OF THE DRAWINGS AND EXISTING CONDITIONS, ADVISE THE OWNER OF ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED. CONTRACTOR SHALL VISIT EXISTING SITE AND DETERMINE CONDITIONS WHICH MAY AFFECT HIS BID.
4. THE CONTRACTOR SHALL FURNISH, INSTALL, WIRE, CONNECT, AND ENERGIZE ALL EQUIPMENT, DEVICES, APPURTENANCES, AND THE COMPLETE SYSTEM INDICATED IN THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR THE COMPLETE INSTALLATION OF THE EQUIPMENT AS REQUIRED BY CODE WITHOUT ADDITIONAL COST TO THE OWNER, REGARDLESS WHETHER THE ITEMS ARE SHOWN ON THE PLAN OR COVERED BY THE SPECIFICATIONS. ADDITIONALLY THE CONTRACTOR SHALL INCLUDE IN HIS/HER BID FOR WORK, WITHOUT ANY EXTRA COST TO THE OWNER, THE COST OF ANY DRAWINGS AND OTHER DOCUMENTS, IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS REGARDING SUPPLYING LABOR, MATERIALS, SERVICES, AND APPARATUS TO COMPLETE THE PROJECT.
6. THE CONTRACTOR SHALL INSTALL ALL MECHANICAL AND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. ALL EQUIPMENT, DEVICES, AND RELATED APPURTENANCES SHALL BE THE LATEST PRODUCT OF THE SPECIFIED MANUFACTURERS UNLESS OTHERWISE INDICATED.
8. ALL ELECTRICAL SYSTEMS, DEVICES, AND RELATED ITEMS SHALL BE TESTED AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL REPLACE ANY AND ALL DEFECTIVE DEVICES, ITEMS, OR SYSTEMS AT COMPLETION OF THE PROJECT.
9. THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS, EQUIPMENT, AND RELATED ITEMS FOR A PERIOD AFTER ACCEPTANCE OF THE PROJECT BY THE OWNER AND REPLACE ANY DEFECTIVE MATERIALS, EQUIPMENT, AND RELATED ITEMS WITHIN THE GUARANTEE PERIOD. THE PERIOD SHALL BE TWELVE MONTHS FROM THE COMPLETION OF THE PROJECT UNLESS OTHERWISE SPECIFIED IN THE SPECIFICATIONS OR CONTRACT DOCUMENTS.
10. THE CONTRACTOR SHALL PROVIDE AND INSTALL A FIRST CLASS SYSTEM AND SHALL COMPLETELY COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
11. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND ARRANGE FOR ALL INSPECTIONS BY LOCAL AUTHORITIES HAVING JURISDICTION.
12. ANY EQUIPMENT INCLUDING TELEPHONE/DATA CABLE LOCATED WITHIN A RETURN AIR PLENUM SHALL BE RATED FOR SUCH APPLICATION IN ACCORDANCE WITH APPLICABLE REGULATIONS.
13. FOR ALL EQUIPMENT CONNECTIONS, THE CONTRACTOR SHALL PERFORM THE FOLLOWING AS REQUIRED BY OR AS INDICATED: EXTEND AND CONNECT TO EQUIPMENT; MOUNT AND CONNECT TO STARTERS; INSTALL PUSH BUTTON STATION AND THERMAL OVERLOAD SWITCHES; FURNISH SUITABLE RECEPTACLES, PLUG, COVER PLATE, CORD, ARMORED CABLE, WIRE, DIRECT CONNECTIONS, DISCONNECT SWITCHES, ETC.
14. EXACT LOCATION AND MOUNTING HEIGHTS OF JUNCTION BOXES, OUTLETS, STUB-UPS, ETC. SHALL BE DETERMINED FROM ARCHITECTURAL CONSTRUCTION DRAWINGS, EQUIPMENT, DETAILS, SPECIFICATIONS WHERE APPLICABLE, AND MANUFACTURER'S ROUGH-IN DRAWINGS.
15. ALL LIGHTING FIXTURE LOCATIONS SHALL BE COORDINATED WITH THE STRUCTURAL PLANS, ARCHITECTURAL SECTIONS AND DETAILS, MECHANICAL AND PLUMBING DRAWINGS AND SYSTEMS. SHOULD A DISCREPANCY ARISE, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
16. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, MOUNTING METHODS, AND DIMENSIONS OF LIGHT FIXTURES, LIFE SAFETY DEVICES, CEILING DEVICES, RECEPTACLES, TELEPHONE AND DATA OUTLETS, AND OTHER ITEMS VISIBLE IN PUBLIC AREAS.
17. CONTRACTOR SHALL SUBMIT SIX (6) SETS OF SHOP DRAWINGS OF ALL EQUIPMENT FOR REVIEW AND APPROVAL. IF ANY EQUIPMENT OR MATERIAL IS INSTALLED PRIOR TO APPROVAL AND THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE DESIGN IN THE OPINION OF THE ARCHITECT OR ENGINEER, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST TO THE CLIENT.
18. IN THE EVENT THAT ANY OWNER FURNISHED EQUIPMENT, DEVICES, OR MATERIAL BECOMES DAMAGED AFTER RECEIPT FROM OWNER, THE CONTRACTOR SHALL REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
19. ELECTRICAL EQUIPMENT REQUIRING ACCESS SUCH AS JUNCTION BOXES, CONNECTIONS TO EQUIPMENT, ETC. SHALL NOT BE INSTALLED ABOVE INACCESSIBLE CEILINGS OR BEHIND WALLS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS. UNLESS OTHERWISE INDICATED, THREE SINGLE-PHASE CIRCUITS MAY BE COMBINED IN ONE CONDUIT WITH A COMMON NEUTRAL, PROVIDED EACH CIRCUIT IS ON A DIFFERENT PHASE.
21. ALL GROUNDING SHALL BE DONE AS PER N.E.C. REQUIREMENTS. CONTRACTOR SHALL USE GREEN GROUND WIRE FOR GROUNDING.
22. ALL BRANCH CIRCUIT WIRING ON THE DRAWINGS THAT IS UNMARKED INDICATES TWO CURRENT CARRYING CONDUCTORS AND A GROUNDING CONDUCTOR.
23. THE ACTUAL NUMBER OF WIRES FOR EACH CIRCUIT ARE NOT INDICATED ON THE DRAWINGS UNLESS NECESSARY FOR CLARIFICATION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON THE DRAWINGS OR NOT.
24. ALL CONDUCTORS SHALL BE COPPER WITH THW OR THHN TYPE (DRY LOCATION ONLY) 75C INSULATION, 12 AWG MIN. UON. MINIMUM CONDUIT SIZE SHALL BE 3/4".
25. ALL PANELBOARD LUGS SHALL ACCOMMODATE THE INDICATED CONDUCTOR SIZES.
26. ALL 20 AMP 120/208V HOMERUNS LONGER THAN 100' SHALL BE MINIMUM 10 AWG AND ALL 20 AMP 120/208V HOMERUNS LONGER THAN 250' SHALL BE MINIMUM 10 AWG.
27. ALL WIRING SHALL BE COPPER CONDUCTORS U.N.O. ALL WIRING 10AWG OR LESS SHALL BE SOLID CONDUCTOR.
28. ALL EMPTY CONDUIT RUNS IN EXCESS OF 10' SHALL BE PROVIDED WITH PULL WIRE OR FISHTAPE/CORD.
29. METALLIC CONDUIT WITH CONDUCTORS SHALL BE USED. PROVIDE ADDITIONAL TWO (2) 2" EMPTY CONDUITS TO EACH RECESSED PANELBOARD FROM THE GUTTER OUTSIDE THE ELECTRICAL ROOM.
30. RECEPTACLE NEUTRAL CONDUCTOR(S) SHALL BE A MINIMUM 10 AWG AT POINT WHERE MORE THAN ONE 20 AMP PHASE CONDUCTOR IS CONNECTED TO A COMMON NEUTRAL BACK TO PANELBOARD. 10 "MC" CABLE SHALL BE USED FOR ALL PHASES AND NEUTRAL FOR "MC" CABLE INSTALLATION AT CONNECTION POINT OF COMMON NEUTRAL.
31. NEW DIRECTORY CARDS FOR EACH PANELBOARD SHALL BE PROVIDED AT COMPLETION OF WORK WITH TYPED DESIGNATIONS INDICATING NAME, VOLTAGE, PHASE, ETC. AND FINAL CIRCUITING DEPICTING EACH POLE POSITION IN A TWO COLUMN FASHION. ROOM NUMBERS SHALL BE USED WHENEVER POSSIBLE ON CIRCUIT DESIGNATIONS.
32. AFTER FINAL INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILLING ALL VOIDS AROUND CONDUIT PENETRATIONS AND OTHER CORE DRILLS/OPENINGS IN SLAB WITH A FIRESAFING REMOVABLE MASTIC. FILL SHALL EQUAL FIRE RATING OF FLOOR.
33. COUPLINGS AND FITTINGS FOR EMT SHALL BE STEEL (CAST POT METAL IS NOT ACCEPTABLE) AND SHALL BE COMPRESSION TYPE.
34. ALL CONDUITS SHALL BE RIGIDLY SUPPORTED TIGHT TO THE BUILDING STRUCTURE. THE MAXIMUM SPACING OF SUPPORTS SHALL BE 10'-0" FOR VERTICAL RUNS AND 8'-0" FOR HORIZONTAL RUNS.
35. CONDUIT/CABLE SHALL BE PROVIDED AS FOLLOWS: ALL EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT OR 'EMT' CONDUIT WITH GALVANIZED COMPRESSION FITTINGS UNLESS CONDUIT IS EXPOSED TO STRIKING OR HARM. IN THIS CASE, CONDUIT SHALL BE RIGID STEEL. ALL CONNECTIONS TO MOTORS SHALL BE U.L. LISTED LIQUDTIGHT FLEX. (MINIMUM 24" LONG). ALL EXPOSED INTERIOR WIRING SHALL BE IN GALVANIZED RIGID STEEL CONDUIT OR EMT CONDUIT WITH STEEL COMPRESSION FITTINGS.
36. THE CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
37. LIGHTING FIXTURES INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL BE INDEPENDENT OF THE CEILING SYSTEM.
38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTORS BEING INSTALLED.
39. THE CONTRACTOR SHALL NOTE U.L. LABEL/NAMEPLATE ON MECHANICAL EQUIPMENT, OR, IF THE LOCAL INSPECTOR REQUIRES THE OVERLOAD PROTECTIVE DEVICES TO BE FUSED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A FUSED DISCONNECT SWITCH WITH PROPER SIZE FUSES AT THE SWITCH LOCATION AS INDICATED ON THE DRAWINGS.
40. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW AND U.L. LISTED AS MANUFACTURED BY GENERAL ELECTRIC, WESTINGHOUSE/SIEMENS, OR SQUARE 'D'.
41. ALL FUSES SHALL BE DUAL-ELEMENT FUSETRON AS MANUFACTURED BY BUSSMAN (FRNR) OR LITTLE FUSE.
42. THE CONTRACTOR SHALL DETERMINE THE NUMBER AND SIZE OF CORE DRILLS NECESSARY FOR INDICATED WORK AND SHALL DETERMINE RECOMMENDED LOCATION AND PROVIDE INFORMATION TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.

ELECTRICAL SYMBOLS

FOR LIGHTING SYMBOL, REFER TO LIGHTING FIXTURE ON THIS SHEET

- S SINGLE POLE TOGGLE LIGHTING SWITCH
- S_K KEY OPERATED SWITCH
- S_{SP} SWITCH WITH PILOT LIGHT
- S_M MANUAL MOTOR STARTER
- S₃ 3-WAY TOGGLE LIGHTING SWITCH
- Ⓜ/Ⓛ CEILING/WALL OCCUPANCY LIGHT SENSOR
- Ⓢ DUPLEX RECEPTACLE. 20A/125V/2P/3W (GROUNDED) NEMA 5-20R. MOUNTED @ 18" AFF U.O.N.
- Ⓢ-I GROUND-FAULT-INTERRUPTER RECEPTACLE. 20A/125V/2P/3W (GROUNDED) NEMA 5-20R. MOUNTED @ 4" ABOVE COUNTER OR BACKSPLASH MAXIMUM 48" A.F.F. TO CENTER.
- Ⓢ-WP WEATHERPROOF GROUND-FAULT-INTERRUPTER RECEPTACLE. 20A/125V/2P/3W (GROUNDED) NEMA 5-20R. MOUNTED @ 18" AFF
- Ⓢ-D DUPLEX RECEPTACLE. 20A/125V/2P/3W (GROUNDED) NEMA 5-20R. TOP HALF SWITCH, MOUNTED @ 18" AFF U.O.N.
- Ⓢ-Q QUADUPLEX RECEPTACLE. 20A/125V/2P/3W (GROUNDED) NEMA 5-20R. MOUNTED @ 36" AFF U.O.N.
- Ⓢ-S SIMPLEX RECEPTACLE. 20A/125V/2P/3W (GROUNDED) NEMA 5-20R. MOUNTING AS INDICATED
- Ⓢ-W WALL/CEILING MOUNTED JUNCTION BOX
- Ⓢ-M ELECTRIC MOTOR CONNECTION. SIZE, USE, AND LOCATION AS INDICATED. VERIFY LOCATION AND CONNECTION REQUIRED WITH MECHANICAL TRADE PRIOR TO ROUGH-IN. USE FLEXIBLE CONDUIT WITHIN 18" OF EQUIPMENT. USE SEAL-TITE CONDUIT FOR OUTDOOR APPLICATIONS.
- Ⓢ-P PANELBOARD OR LOADCENTER. LOW VOLTAGE (120/208V). SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- Ⓢ-T TELEPHONE OUTLET, MOUNT 18" A.F.F. UNLESS OTHERWISE NOTED
- Ⓢ-TV COMBINATION T.V. AND TELE/DATA OUTLET, MOUNTED IN TWO GANG BOX
- Ⓢ-D DOOR CHIME WITH INTEGRAL 120/24V. TRANSFORMER, MOUNTED 9'-0" A.F.F. UNIT AS PROVIDED BY THE ELECTRICAL CONTRACTOR AND TYPE AS SELECTED BY ARCHITECT.
- Ⓢ-B DOOR BELL PUSHBUTTON, MOUNTED 42" A.F.F.

HOME RUN TO PANEL BOARD "X". NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. NUMBER OF SLASHES INDICATES NUMBER #12 AWG CONDUCTOR. SLASH WITH (/) INDICATES GROUNDING CONDUCTOR. CIRCUIT OR HOMERUN WITHOUT SLASH SHALL INCLUDES 2 #12 AWG + 1 #12 AWG IN 3/4 EMT CONDUIT.

FIRE ALARM / SECURITY SYMBOLS

- Ⓢ/Ⓢ CEILING/WALL SYSTEMS SMOKE DETECTOR
- Ⓢ-EL PHOTOELECTRIC SMOKE DETECTOR WITH ELEVATOR RECALL RELAY
- Ⓢ-S SINGLE STATION 120V. CEILING MOUNTED COMBINATION SMOKE/CARBON MONOXIDE DETECTOR. UNIT PROVIDED WITH INTEGRAL BATTERY BACKUP.
- Ⓢ-V FIRE ALARM VISUAL SIGNAL (STROBE, 75cd UNLESS OTHERWISE NOTED) MOUNTED 80" TO BOTTOM OF STROBE
- Ⓢ-B FIRE ALARM BELL
- Ⓢ-F DWELLING UNIT FLUSH WALL MOUNTED SYSTEM FIRE ALARM SPEAKER WITH WHITE FINISHED SPEAKER GRILLE.
- Ⓢ-TS SPRINKLER SYSTEM TAMPER SWITCH ON THE O.S.&Y. VALVE
- Ⓢ-FS SPRINKLER SYSTEM FLOW SWITCH ON THE O.S.&Y. VALVE.
- Ⓢ-F MANUAL PULL STATION, MOUNTED 42" A.F.F.
- Ⓢ-C SECURITY CAMERA
- Ⓢ-FACP FIRE ALARM CONTROL PANEL
- Ⓢ-FAAP FIRE ALARM ANNUCIATOR PANEL

LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	LAMPS			VOLTAGE	MOUNTING	NOTES
			NO.	WATTS	TYPE			
A		BAY LIGHTING - 60-903-R	2	32		120	CEILING FLUSH	KITCHEN
B		BAY LIGHTING - CHANDLER - 60-1290	90	90		120	PENDANT	DINNING
C		BAY LIGHTING - F71-62-53	1	32		120	CEILING SURFACE	HALL
D		BAY LIGHTING - F3573-53	3	13		120	WALL	VANITY
E		FLUORESCENT SHOWER RECESSED LIGHT	1	32		120	CEILING RECESSED	BATH (WET/DAMP AREA)
F		PHILIPS - DAY BRITE - EB-42W PLT	1	42		120		FITNESS
G		2X2 FLUORESCENT LIGHTING FIXTURE	2	32		120	CEILING	CORRIDOR
		2X2 FLUORESCENT LIGHTING FIXTURE WITH BATTERY PACK	2	32		120	CEILING	
H		NUVO - FLUORESCENT 60-405	2	13		120	CEILING	CLOSET
EM		COOPER LIGHTING TWO HEAD FIXTURE WITH BATTERY PACK - APEL				120	WALL	
EX		COOPER LIGHTING SINGLE OR DOUBLE EXIT SIGN WITH BATTERY PACK				120	WALL OR CEILING	

LIGHTING FIXTURE NOTES:

1. COORDINATE TYPE OF CEILING FOR EACH FIXTURE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND PROVIDE FIXTURE TRIM AS REQUIRED.
2. ALL LIGHTING FIXTURES SHALL BE VERIFIED WITH ARCHITECT AND APPROVED BY OWNER PRIOR TO ORDERING

ABBREVIATIONS

- A AMPERE
- AFF ABOVE FINISHED FLOOR
- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- CB CIRCUIT BREAKER
- CP CONDENSATE PUMP
- DWG DRAWING
- E ELECTRICAL
- EG EQUIPMENT GROUND
- EM EMERGENCY CIRCUIT
- EWB ELECTRIC WATER HEATER
- FAAP FIRE ALARM ANUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FLA FULL LOAD AMPERES
- GFI GROUND FAULT INTERRUPTER
- IG ISOLATED GROUND
- GND GROUND
- KVA KILOVOLT-AMP
- KW KILOWATT
- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUGS ONLY
- MD MOTORIZED DAMPER
- NF NON FUSED
- NTS NOT TO SCALE
- NEC NATIONAL ELECTRICAL CODE
- N NEW
- P POLE
- PH.Ø PHASE
- PNL PANEL
- SM MOTOR THERMAL SWITCH CONTROL
- S.N. SOLID NEUTRAL
- SWBD SWITCHBOARD
- TYP TYPICAL
- TV TELEVISION
- TEL TELEPHONE
- U.O.N. UNLESS OTHERWISE NOTED
- UH UNIT HEATER
- W WATT
- WH WATER HEATER
- WP WEATHERPROOF
- WT WIRE TROUGH

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E-102	PARTIAL BASEMENT FLOOR PLAN - BLDG 5800 - ELECTRICAL
E-200	BASEMENT FLOOR PLAN - BLDG 5802 - ELECTRICAL
E-201	PARTIAL BASEMENT FLOOR PLAN - BLDG 5802 - ELECTRICAL
E-202	PARTIAL BASEMENT FLOOR PLAN - BLDG 5802 - ELECTRICAL
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The Phoenix Apartments

Interior Alterations

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Bladensburg, Maryland 20710

NOVITSKE ARCHITECTS

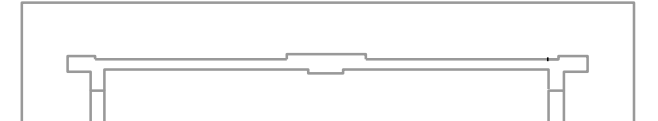
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CERTIFICATE OF AUTHORIZATION #001

I certify that these documents were prepared by or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, license number 05505 expiration date 6/30/15.

key plan



graphic scales

project: 21413
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LEGEND, SYMBOLS, AND NOTES - ELECTRICAL

E-001