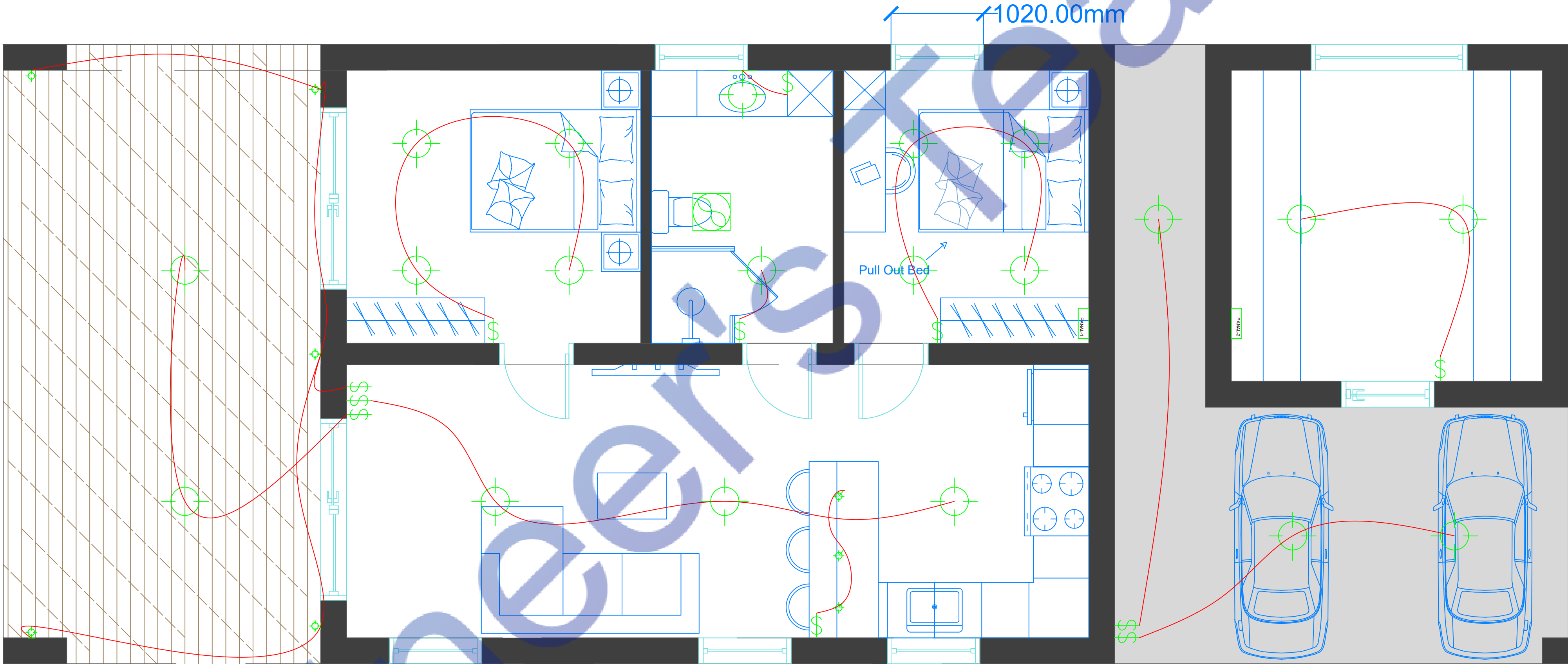


NOTE:
This Electrical Layout Plan is designed and certified to comply with all current codes, regulations, and standards applicable in Lithuania. The design adheres to the following:

Lithuanian National Building Regulations (STR):

1. STR 1.01.07:2021 (Electrical Installations in Buildings).
2. STR 2.05.01:2020 (Electrical Safety and Design Requirements).
3. Harmonized European Standards (EN):
4. EN 60364 (Low-voltage electrical installations).
5. EN 60669 (Switches for household and similar fixed electrical installations).
6. EN 61439 (Low-voltage switchgear and controlgear assemblies).
7. Lithuanian Fire and Safety Regulations:
8. Compliance with Fire Safety Regulations (VĮ "PAGD") for electrical system fire protection.
9. LST EN 62305 (Lightning Protection Systems, if applicable).
10. Lithuania Product Approval Codes:
11. All electrical components and equipment meet:
12. *LST EN/IEC 60947* (Circuit breakers and switchgear).
13. LST HD 60364 (Wiring and installation standards).
14. CE Marking (EU compliance for electrical products).
15. Energy Efficiency & Renewable Energy Compliance:
16. Lithuanian Energy Efficiency Directive (2023) for lighting (LST EN 12464-1).
17. Renewable Energy Systems (if applicable) per STR 2.09.04:2022.

This plan meets or exceeds all national and EU-mandated electrical safety, performance, and permitting requirements for installations in Lithuania.



ELECTRICAL LEGEND	
	20W CEILING MOUNT LED LIGHT
	20W PENDANT LED LIGHT
	SMOKE DETECTOR
	20W LED TUBE LIGHT 1x4'
	40W LED LIGHT 2x4'
	ONE WAY SWITCH 220V
	TWO WAY SWITCH 220V
	WALL SOCKET OUTLET 220V
	10W WALL MOUNTED LED LIGHT
	60W CEILING FAN 220V
	SUB DISTRIBUTION BOARD
	MAIN DISTRIBUTION BOARD
	40W BATHROOM EXHAUST FAN
	CEILING BELL
	ELECTRIC WIRE
	WATERPROOF WALL SOCKET OUTLET 220V



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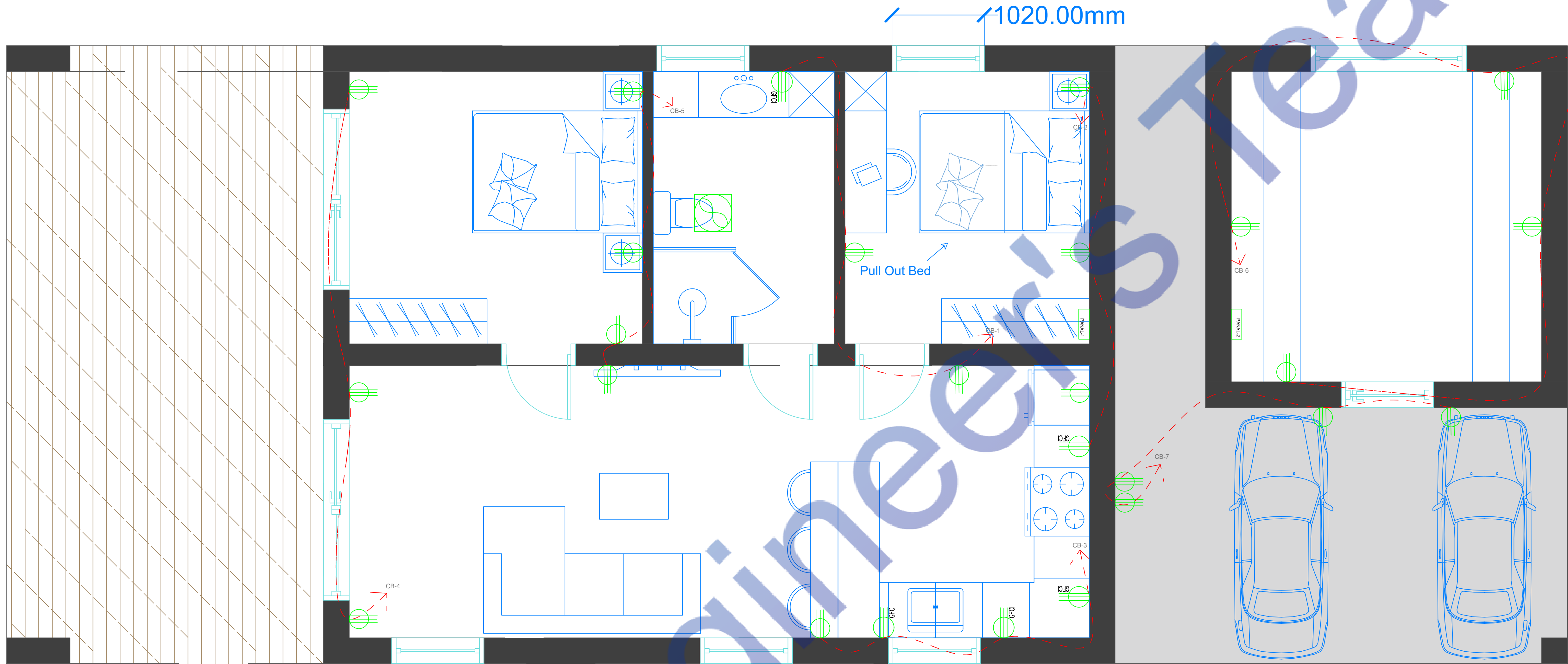
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E001





ELECTRICAL LEGEND	
	MULTI SOCKET OUTLET 120V
	GFCI SOCKET OUTLET 120V
	GFCI WEATHER PROOF SOCKET OUTLET 120V
	SUB DISTRIBUTION BOARD
	MAIN DISTRIBUTION BOARD
	ELECTRIC WIRE



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POWER PLAN

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E002



GENERAL NOTES:

- I. A LISTED INTERSYSTEM BONDING TERMINATION PROVIDING THE REQUIRED NUMBER OF TERMINALS (MINIMUM OF THREE) FOR CONNECTING OTHER BUILDING SYSTEMS TO THE GROUNDING SYSTEM OF THE ELECTRICAL POWER SUPPLY (NEC250.94).

KEY NOTES: (H)

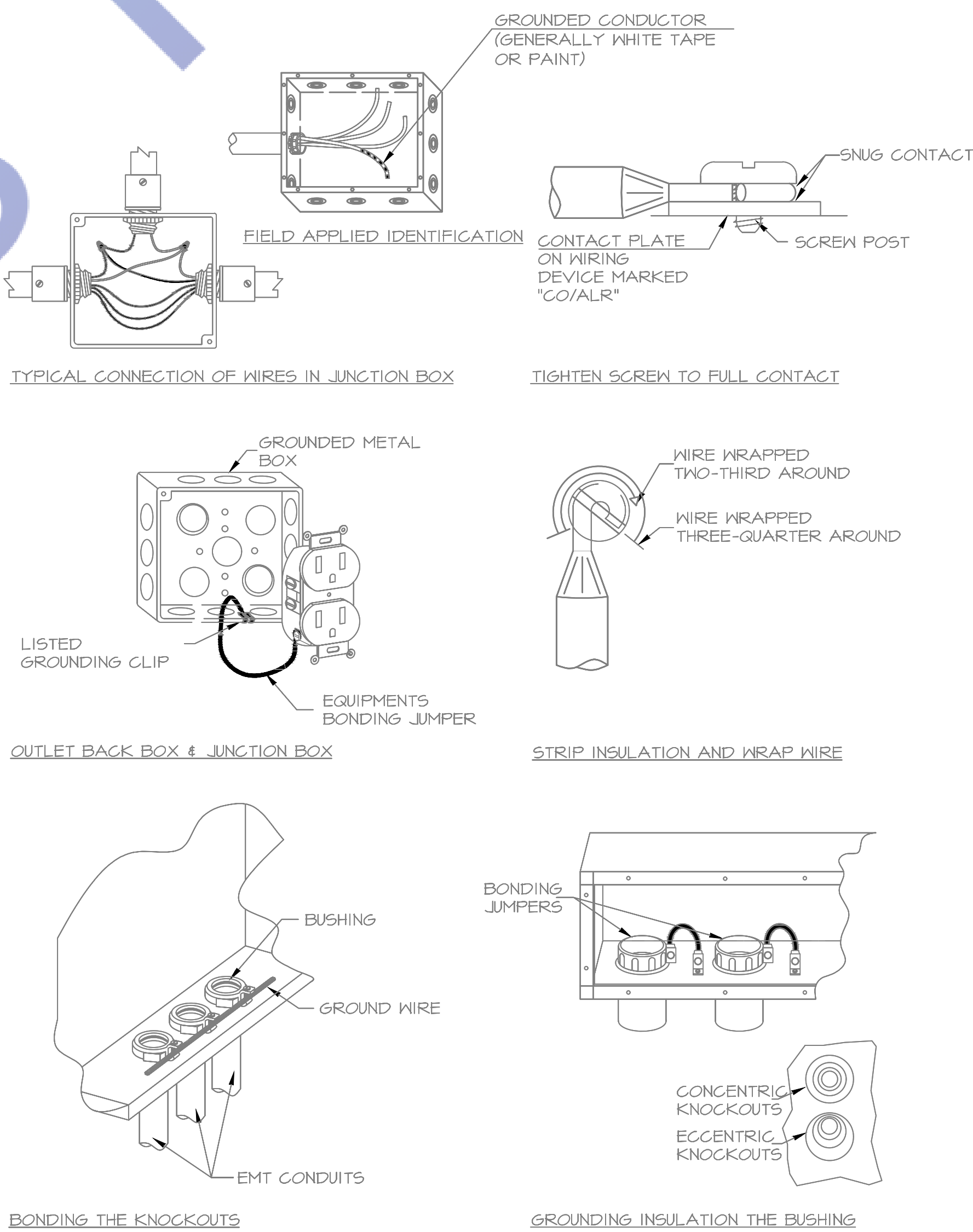
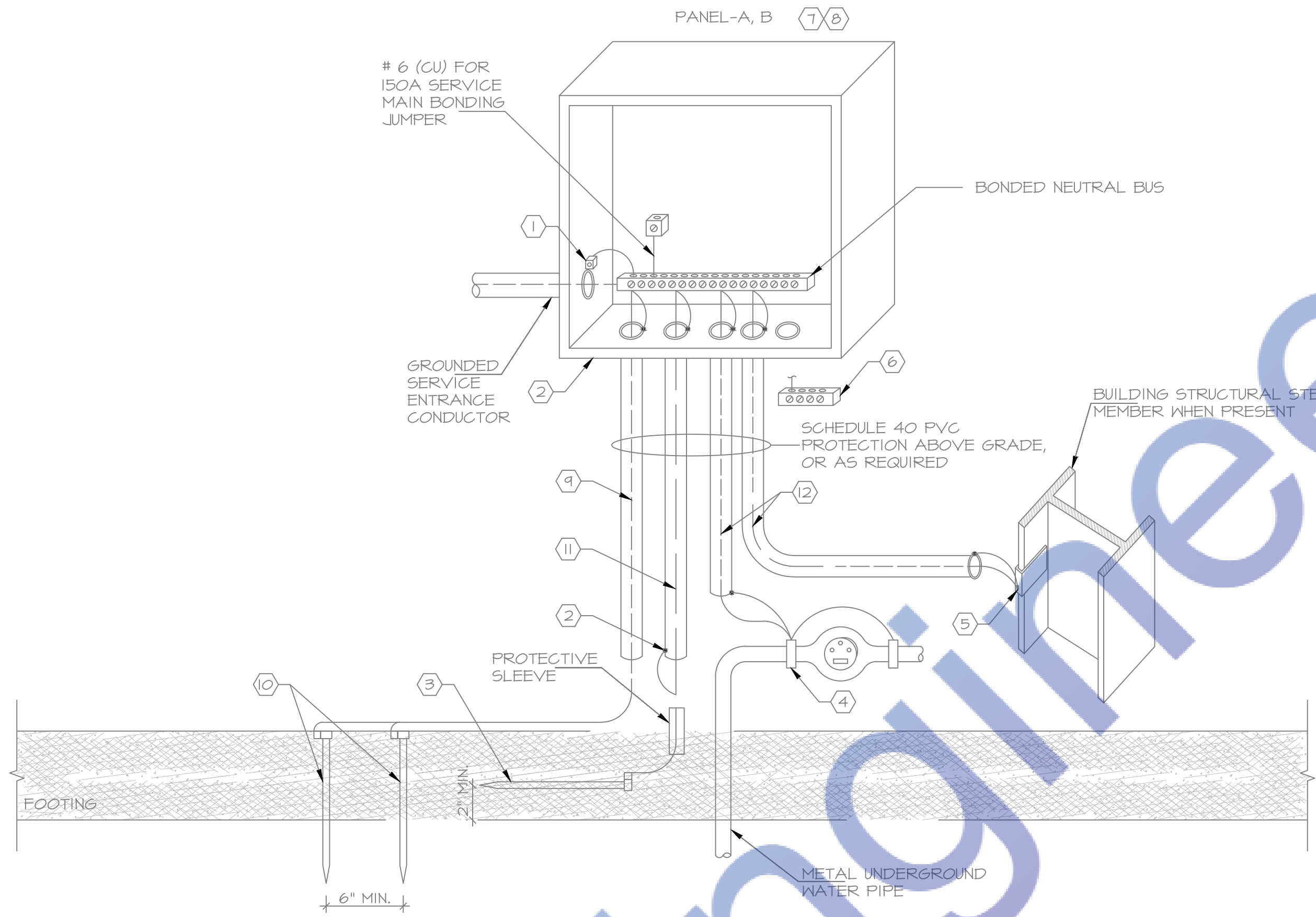
- I. ALL METAL CONDUITS ENCLOSING ANY SERVICE SHALL BE FITTED WITH A "BONDING BUSHING".
2. ALL METAL CONDUITS ENCLOSING ANY GROUNDING ELECTRODE CONDUCTOR SHALL BE FITTED WITH A "BONDING BUSHING" AT EACH END.
3. PROVIDE GROUNDING ELECTRODE PER NEC. ELECTRODE SHALL BE IN THE FORM OF A 20'-0" x 1/2" COPPER CLAD GROUND ROD LAID AT LEAST 2" OFF THE BOTTOM OF A CONCRETE FOOTING. SECURE THE GROUND ROD TO THE REBAR WITH STEEL TIE WRAPS. IF THE REBAR BEING USED IN THE FOOTING IS SMALLER THAN 1/2" (#4), THEN USE 20' OF BARE

- SOLID #4 COPPER WIRE IN PLACE OF THE GROUND ROD. IN REMODEL PROJECTS THAT WILL NOT HAVE NEW FOOTINGS INSTALLED, THIS SUPPLEMENTAL ELECTRODE SHALL BE PER NOTE #4 BELOW OR OTHER ELECTRODE PER NEC 250.52.
4. FOR CONNECTION TO COLD WATER MAIN. CONNECT WITHIN 5 FT. OF CONTACT OF EARTH.
5. IF STRUCTURAL STEEL MEMBER OR REBARS ARE AVAILABLE, BOND IT TO THE SERVICE USING A UL LISTED IRREVERSIBLE CLAMP OR WELDING LUG.
6. PROVIDE A INTERSYSTEM BONDING TERMINATION PER NEC 250.94.

- INTERSYSTEM BONDING TERMINATION SHALL:
- 6.1. BE ACCESSIBLE FOR CONNECTION AND INSPECTION.
- 6.2. CONSIST OF A SET OF TERMINALS (LISTED AS GROUNDING AND BONDING EQUIPMENT) WITH THE CAPACITY OF NOT LESS THAN THREE INTERSYSTEM BONDING CONDUCTORS.
- 6.3. BE SECURELY MOUNTED AND ELECTRICALLY CONNECTED TO SERVICE EQUIPMENT, METER ENCLOSURE, OR EXPOSED NON METALLIC SERVICE RACEWAY, OR BE MOUNTED ON ONE OF THESE ENCLOSURES AND BE CONNECTED TO THE ENCLOSURE OR GROUNDING

- ELECTRODE CONDUCTOR WITH A MINIMUM #6 CU CONDUCTOR.
- 6.4. BE SECURELY MOUNTED TO THE BUILDING'S DISCONNECTING MEANS, OR BE MOUNTED AT THE DISCONNECTING MEANS AND BE CONNECTED TO THE METALLIC ENCLOSURE OR GROUNDING ELECTRODE CONDUCTOR WITH A MINIMUM #6 CU CONDUCTOR.
7. ALL BRANCH CIRCUIT AND FEEDER CONDUITS ARE TO HAVE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR REGARDLESS OF THE CONDUIT MATERIAL.
8. WHEN THE SERVICE CONSISTS OF MULTIPLE DISCONNECTING MEANS IN SEPARATE ENCLOSURES, CONNECT A TAP

- CONDUCTOR FROM THE MAIN GROUNDING ELECTRODE CONDUCTOR TO EACH DISCONNECTING MEANS. SIZE THIS TAP BASED ON THE LARGEST SERVICE CONDUCTOR IN THAT SERVICE DISCONNECT ENCLOSURE.
9. #6 COPPER GROUNDING ELECTRODE CONDUCTOR.
10. INSTALL #6 CU TO TWO 5/8"x 8' MIN. GROUND RODS AS SHOWN.
11. #4 COPPER GROUNDING ELECTRODE CONDUCTOR.
12. COPPER GROUNDING ELECTRODE CONDUCTOR. PROVIDE #6 COPPER.



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INSTALLATION

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E003

Watermarkly



Designed By Engr. Al Amin (MEP Engineer | Director - Engineer's Team LTD)

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