INSPECTION GUIDELINES

GENERAL REQUIREMENTS **ELECTRICAL**

Building permit and approved set of plans	☐
Building permit on the card is the same as on the route	☐
"If this is not the first inspection, read inspection records and notes on permit card"	☐
Check for Notice of Commencement. FBC 105.8	☐
Identify scope of installation and removal or parts of installations that are not covered by the NEC. 90.2 (A) and (B)	☐
Examination of equipment for safety verify that installations have been made in accordance with the instructions included in listing and labeling of materials and. NEC 90.7, 110.3 (B)	☐
Enforcement, Examination of equipment for safety installations and equipment requiring special approval or investigation included in listing and labeling of materials. NEC 90.4, 90.7, 110.2, 110.3	☐
Verify that Interrupting Ratings are adequate for the conditions of the installation. NEC 110.9	☐
Verify that Mechanical Execution of Work unused openings have effectively been closed. NEC 110.12 (A)	☐
Integrity of Electrical Equipment and Connection, check for broken or damaged parts and contamination by foreign materials. NEC 110.12 (B)	☐
Mounting and Cooling of Equipment: check for secure mounting and adequate ventilation space for equipment. NEC 110.13 (A) and (B)	☐
Electrical Connections: Check for proper use and ratings of splices and terminations. NEC 110.14 (A) and (B)	☐
Check Temperature Limitations ratings of terminations. NEC 110.14 (C)	☐
Check for Arc-Flash Hazard Warning signs in non-dwelling occupancies. NEC 110.16	☐
Verify adequate working clearances, Dedicated Equipment spaces, and headroom around equipment. NEC 110.26 (A) and (E)	☐
Verify that working space and dedicated space are not used for storage. NEC 110.26 (B)	☐
Check adequacy of entrance to and exit from working space. NEC 110.26 (C)	
Verify that working spaces have adequate illumination and to control all illumination within the working space. NEC 110.26 (D)	
Check for Field identification of Disconnecting Means and circuit directories or circuit identification for panel boards, switchboards, and similar equipment. NEC 110.22, 408.4	

INSPECTION GUIDELINES

FOUNDATION GROUNDING /UNDERGROUND– 074 (RESIDENTIAL) **ELECTRICAL**

Building permit and approved set of plans	☐
Building permit number on the card is same as on the route	☐
If this is not the first inspection, read inspection records and notes on permit card	☐
Check for Notice of Commencement. FBC 105.8	☐
Check location, size, and type of connector of the equipment Grounding and Bonding conductors. NEC 250	☐
Check Underground Installations backfill protection and allowances for ground movement or of conductors and raceways. NEC 300.5 and Table 300.5	☐
Check Underground Installations backfill size and type of conduits for adequate burial depth and protections, as well as suitability for location. NEC Table 300.5, 300.5 (F), 310.10 (A)(B)(C)(D)(F)(G), 340.10	☐
Check for Protection from damage and service conductor warning ribbon. NEC 300.5 (D) (3)	☐
Check Underground Installations backfill protection and allowances for ground movement or underground conductors and raceways. NEC 300.5 and Table 300.5	☐

INSPECTION GUIDELINES

SLAB – 006 (RESIDENTIAL) **ELECTRICAL**

Building permit and approved set of plans.	☐
Building permit on the card is the same as on the route.	☐
If this is not first inspection, read inspection records and notes on permit card.	☐
Check installation. NEC Chapter 3, Articles 358.10 (EMT), 342.10 (IMC), 344.10 (RMC), 362.10 (ENT), 352.10 (PVC/RNC), 390.3 (under floor raceways)	☐
Check conduits in footings and tie beams for area cross sections. FBC 1925 RESERVED	☐
Check Underground Installations backfill protection and allowances for ground movement or underground conductors and raceways. NEC 300.5 and Table 300.5	☐

INSPECTION GUIDELINES

ROUGH –002 (RESIDENTIAL) **ELECTRICAL**

ALL AREAS	
Building permit and approved set of plans	☐
Building permit on the card is the same as on the route	☐
If this is not the first inspection, read inspection records and notes on permit card	☐
Check wiring methods (usually cable assemblies) for support and suitability to the occupancy. NEC Chapter 3, Chapter 7 and Chapter 8	☐
Check Protection Against Physical Damage cable installation through or parallel to framing members for 1 1/4-in. (32-mm) clearance or protective steel plates. NEC 300.4	☐
Check Outlets boxes for suitability of use. NEC 314.27	☐
Verify that boxes, conduit bodies, or fittings and handholes enclosures are installed in accessible locations for all junctions and outlets and pull points. NEC 300.15, 314.29	☐
Check that boxes and conduit bodies cables are secured to boxes. NEC 314.17 (B) and (C)	☐
Check numbers of conductors in outlets, device and junction boxes and conduit bodies for conductor fill. NEC 314.16	☐
Check positioning of boxes that are intended to be Flush-Mounted Installations with combustible and noncombustible finished surfaces. NEC 314.20	☐
Check for splicing devices on all equipment Grounding and Bonding Equipment other conductor enclosures and raceways within boxes and bonding connections to metal boxes. NEC 250.8, 250.86, 250.146, 250.148	☐
Check equipment grounding conductors for suitability and size. NEC 250.118, 250.122	☐
Check boxes used in floors, or for support of ceiling fans and fan outlets for listing. NEC 314.27 (B) and (C)	☐
Check Temperature recessed luminaires for clearances from combustibles and insulation. NEC 410.115, 410.116	☐
Check recessed luminaire cans to be airtight or trim. FBC (EC) R402.4.4	☐
Bonding of other Metal Pipe systems. NEC 250.104 (B)	☐
Smoke detectors, spacing/interconnected/arch fault protected. NFPA 72, FBC 907, FBC 908.7, FBC 603, FBC R315, NEC 210.12(A)	☐
Boxes Fire Walls. NEC 300.21	☐
Check boxes at ceiling-suspended (paddle) fan outlets support for fan boxes. NEC 314.27 (C) and 422.18	

KITCHEN	
Check spacing of receptacles for walls and countertops and work surfaces, including islands and peninsulas. NEC210.52 (A) and (C)	☐
Verify that a minimum of two 20-A small-appliance branch circuits are used for kitchen receptacles. NEC 210.52 (B)	☐
Verify that a wall-switched lighting outlet is provided and wired on a general lighting circuit. NEC 210.70 (A), 210.52 (B) (2)	☐
Verify that properly sized circuits have been provided for specific kitchen appliances, such as dishwashers, disposals, ranges, cooktops, trash compactors, and the like. NEC 210.23, 422.10	☐
Check for additional small-appliance branch circuits where there is more than one kitchen. NEC 210.52 (B) (3)	☐
Check for other outlets or appliances on small-appliance branch circuits. NEC 210.52 (B) (2)	☐
DINING ROOM	
Check receptacle outlets for proper spacing, wall space. NEC 210.52 (A)	☐
Verify that all required receptacle outlets are supplied by small-appliance branch circuits. NEC 210.52 (B)	☐
Check for wall-switch-controlled lighting no other outlets on a general lighting circuit. NEC 210.70 (A), 210.52 (B) (2)	☐
BATHROOMS	
Verify that receptacle outlets are installed adjacent to and within 36 in. (900 mm) of each basin. NEC 210.52 (D)	☐
Verify that receptacles are supplied by dedicated 20-A branch circuits. NEC 210.11(C) (3)	☐
Check for wall-switch-controlled lighting outlet on a general lighting circuit. NEC 210.70	☐
Wet and Damp locations, bathtub and shower areas Spa tubs lighting fixtures. NEC 410.10 (A) and (D)	☐
Check indoor installations, spa or tub receptacles. NEC 680.43 (A)	☐
Check indoor spa luminaires, lighting outlets and suspended. NEC 680.43 (B)	☐
Check spa motor bonding. NEC 680.43 (D) (2) and metal parts	☐

OTHER HABITABLE ROOMS (BEDROOMS, FAMILY ROOMS, PARLORS AND DENS	
Check receptacle outlets for proper spacing, wall space. NEC 210.52 (A)	☐
Check for wall-switch-controlled lighting outlets (Including switched receptacles). NEC 210.70	☐
HALLWAYS	
Check for at least one wall-switch-controlled (or automatic, remote, or centrally controlled) lighting outlet. NEC 210.70 (A) (2)	☐
Verify that hallways that are continuous for 10 ft. (3.0 m) or more have at least one receptacle outlet. NEC 210.52 (H)	☐
STAIRWAYS	
Check for at least one wall-switch-controlled (or automatic, remote, or centrally controlled) lighting outlet. NEC 210.70 (A) (2)	☐
Verify that wall switches are provided at each floor level where there are six or more steps between levels. NEC 210.70 (A) (2)	☐
CLOSETS	
Check clearances between luminaires, Clothes Closet and Storage spaces if luminaires are installed, branch circuits NEC 410.2, 210.	☐
Check Luminaire spacing required for clothes closets. NEC 410.16	☐
LAUNDRY AREA	
Verify that at least one receptacle outlet is installed for the laundry areas. NEC 210.52 (F)	☐
Verify that a dedicated 20-A circuit supplies the laundry outlet (s) and no other outlets. NEC 210.11 (C) (2)	☐
Check for a laundry appliance receptacle outlet within 6 ft. (1.8 m) of the intended appliance location. NEC 210.50 (C)	☐
Check for proper branch-circuit conductors, including equipment fastened grounding conductors, for 240-V dryers (if used). NEC 422.10, 250.134, 250.138	☐
Verify that lighting outlets for the area are supplied from general lighting conduits. NEC 210.11 (C) (2)	☐

INSPECTION GUIDELINES

ROUGH –002 (RESIDENTIAL) **ELECTRICAL**

BASEMENTS AND ATTICS	
Verify that at least one receptacle outlet is provided in unfinished basement, garage and accessory building, and multifamily dwelling areas in addition to any receptacles installed for laundry equipment. NEC 210.52 (G)	☐
Verify that equipment requiring servicing a 15- or 20-ampere-rated receptacle outlet is provided for servicing mechanical, if any. NEC 210.63	☐
Verify storage-type water heaters that individual branch circuits are supplied for central heating equipment, if any. NEC 422.12 (3) (Walk-in)	☐
Verify that a wall-switch-controlled lighting outlet or a lighting outlet containing a switch is provided at the entrance to equipment requiring servicing or storage spaces NEC 210.70 (A) (3)	☐
Check accessible attics, attic entrances, and scuttle holes for clearances from or protection of cable assemblies. NEC 320.23, 330.23, 334.23	
GARAGES (ATTACHED OR WITH ELECTRIC POWER)	☐
Verify that at least one receptacle outlet is provided per bay. NEC 210.52 (G)	☐
Verify that a wall-switch-controlled lighting outlet is provided. NEC 210.70 (A) (2)	
OUTDOORS	
Check for at least two receptacle outlets, one each at the front and back of the dwelling equipment requiring servicing a 15- or 20-ampere-rated. NEC 210.52 (E), 210.63	☐
Check for wall-switch-controlled (or remote, central, or automatic-controlled) exterior lighting outlets at outdoor entrances or exits with grade-level access. NEC 210.70 (A) (2)	☐
SERVICES AND SYSTEM GROUNDING	
Review the calculation of service load and determine the minimum size of service conductors. NEC Article 220, 230.42	☐
Verify that service disconnects all ungrounded, and overcurrent devices are located outside or inside nearest the point of entrance of the service conductors. NEC 230.70, 230.91	☐
Verify that service disconnects are grouped together, with no more than six in any one location. NEC 230.71, 230.72.	☐
Check for proper accessibility, working clearances, location in or on premises and dedicated spaces around service equipment. NEC 110.26, 230.91, 240.24	☐
Check service-entrance wiring methods for 1000 volts, of suitability, support, and protection from physical damage and mounting supports NEC 230.43, 230.50, 230.51	

ROUGH –002 (RESIDENTIAL) **ELECTRICAL**

Check for a proper drip loop and weatherhead on overhead services. NEC 230.54	☐
Verify that the point of attachment is adequate and will provide required support and clearances above roofs and grade. NEC 230.24, 230.26	☐
Check service masts for adequate strength and support. NEC230.28	☐
Check for proper clearances of service conductors from building openings. NEC 230.9	☐
Check underground service conductors for proper depth, fill, protection, marking and allowances for ground movement. NEC 300.5	☐
Determine which grounding electrodes area is available and verify that they are bonded together to form a grounding electrode system. NEC 250.50, 250.52	☐
Check grounding electrodes any rod, pipe or plate electrodes for proper size, type and installation. NEC 250.52	☐
Verify that grounding electrode conductors are unspliced and protected and that any metal enclosures are bonded and electrically continuous. NEC 250.64	☐
Check grounding electrode conductor (s) for proper sizing. NEC 250.66	☐
Check grounding and bonding electrode connections for proper type, for protection and for accessibility. NEC 250.8, 250.20, 250.68, 250.70	☐
Verify that the main bonding jumper and system bonding jumper is installed and of the proper size and type. NEC 250.28	☐
Verify that metal water piping systems are bonded of piping and exposed structural metal, that bonding jumpers are properly sized and that continuity around removable devices is assured. NEC 250.104 (A), 250.68 (B)	☐
Verify that service raceways and enclosures are properly bonded. NEC 250.80, 250.92	☐
Damp and wet locations 1/4-inch gap. NEC 312.2	☐
FEEDERS AND PANELBOARDS	
Review the ampacity tables, calculations of feeder loads and verify that conductors are properly sized and rated. NEC Article 220, 310.15	☐
Verify that panelboards, busbars, switchboards, switchgear in damp or wet, and conductors have proper ratings and protection. NEC Article 220, 408.3, 408.16	☐
Check for proper accessibility, working clearances and dedicated spaces around panelboards. NEC 110.26, 240.24	☐

ROUGH –002 (RESIDENTIAL) **ELECTRICAL**

Verify that at least the minimum number of overcurrent branch devices and circuits has been provided. NEC 210.11	☐
Check lighting and appliance panelboards for excessive circuits and circuit provisions. NEC 408.36, 408.54	☐
Verify that the grounded conductor of a feeder circuit is insulated and isolated from equipment grounding conductors and grounded enclosures. NEC 250.24 (A) (5), 250.142 (B), 310.106	☐
Verify that panelboards are grounded by an appropriate and properly load equipment grounding conductor (or conductors). NEC 408.40, 215.6, 250.118, 250.122	☐
Check termination of grounding and grounded branch circuit conductors.	☐

INSPECTION GUIDELINES

FINAL –001 (RESIDENTIAL) **ELECTRICAL**

GENERAL REQUIREMENT (ALL AREAS)	
Building permit and approved set of plans	☐
Building permit on the card is the same as on the route	☐
If this is not the first inspection, read inspection records and notes on permit card	☐
Check for correction of any deficiencies noted on previous inspections.	☐
Flush-Mounted Installations check positioning of boxes intended to be flush with combustible or noncombustible finished surfaces. NEC 314.20	☐
Check for proper positioning of receptacles outlets and faceplates on walls. NEC 406.4	☐
Check for gaps around outlet boxes in walls. NEC 314.21	☐
Verify that conductor terminations and splicing methods are compatible with conductor materials. NEC 110.14	☐
Verify that receptacles Grounding terminal are bonded to metal boxes and that receptacles switches and metal faceplates are grounded. NEC 250.146, 250.148, 404.9, 406.6 (B)	☐
Check polarity of devices of Connections, luminaires, plugs, cord connector and flanged. NEC 200.11, 410.50, 406.7	☐
Check for splicing devices on all equipment grounding conductors within boxes and for bonding connections to metal boxes. NEC 250.8, 250.86, 250.148	☐
Verify that device ratings are compatible with circuit and equipment ratings. NEC 210.21, 210.23	☐
Check for proper use of boxes, conduit bodies, connectors, and fittings and for protection of cables. NEC 300.15	☐
Check for bushings or equivalent protection for cables and raceways installed in shallow grooves entering boxes and other enclosures. NEC300.4 (F), 314.42	☐
Verify that unused openings in boxes and other enclosures are closed. NEC 110.12, 314.17 (A), 312.5 (A)	☐
Verify that appliances, motors, and other equipment are grounded. NEC 250.110, 250.112, 250.114	☐
Check installation and use of listed equipment for compliance with manufacturer's instructions. NEC 110.3 (B)	☐
Verify that fire rating or products of combustion of assemblies has been restored at electrical penetrations. NEC 300.21	

FINAL –001 (RESIDENTIAL) **ELECTRICAL**

Check for disconnecting means on both permanently connected and cord-and plug-connected appliances. NEC Article 422, Part III	☐
Verify that circuits for mechanical fixed electric space-heating equipment have correct conductor size and overcurrent protection. NEC Articles 422, 424, 430 and 440	☐
Check arch fault branch circuits.	☐
Label all equipment and branch circuits at panel.	☐
Verify recessed lighting has gasket or caulk around can or airtight trim. FBC (EC) R402.4.4	☐
KITCHEN	
Check spacing of receptacles for walls and countertops, including islands and peninsulas. NEC 210.52 (A) and (C)	☐
Verify that a minimum of two 20-A small-appliance branch circuits are used for kitchen receptacles. NEC 210.52 (B)	☐
Verify that small-appliance branch circuits are used only for receptacles in kitchen, dining room, pantry and so forth. NEC 210.52 (B) (2)	☐
Verify that countertop receptacles are provided with GFCI protection. 210.8 (A) (6)	☐
Verify that refrigeration equipment is supplied by a small branch circuit or an individual branch circuit. NEC 210.52 (B) (1), Exc. No. 2	☐
Verify that a wall-switched lighting outlet is provided and wired on a general lighting circuit. NEC 210.70 (A), 210.52 (B) (2)	☐
Verify that properly sized circuits have been provided for specific kitchen appliances, such as dishwashers, disposals, ranges, cooktops, trash compactors, and the like. NEC 210.23, 422.10	☐
Check for proper type, length, and use of flexible cords for appliance connections. NEC 422.16	☐
DINING ROOM	
Check receptacle outlets for proper spacing. NEC 210.52 (A)	☐
Verify that all required receptacle outlets are supplied by small-appliance branch circuits. NEC 210.52 (B)	☐
Check for wall-switch-controlled lighting outlet on a general lighting circuit. NEC 210.70 (A), 210.52 (B) (2)	☐

FINAL –001 (RESIDENTIAL) **ELECTRICAL**

BATHROOMS	
Verify receptacle outlets are installed adjacent to and within 36 in. (900 mm) of each basin. NEC 210.52 (D)	☐
Verify that receptacles are supplied by dedicated 20-A branch circuits. NEC 210.11(C) (3)	☐
Verify that bathroom receptacles are GFCI protected. NEC 210.8	☐
Check for wall-switch-controlled lighting outlet on a general lighting circuit. NEC 210.70	☐
OTHER HABITABLE ROOMS (BEDROOMS, PARLORS AND DENS)	
Check receptacle outlets for proper spacing. NEC 210.52 (A)	☐
Check for wall-switch-controlled lighting outlets (Including switched receptacles). NEC 210.70	☐
Check for arc-fault circuit-interrupter (AFC) protection on bedroom circuits. NEC 210.12	☐
HALLWAYS	
Check for at least one wall-switch-controlled (or automatic, remote, or centrally controlled) lighting outlet. NEC 210.70 (A) (2)	☐
Verify that hallways that are continuous for 10 ft. (3.0 m) or more have at least one receptacle outlet. NEC 210.52 (H)	☐
STAIRWAYS	
Check for at least one wall-switch-controlled (or automatic, remote, or centrally controlled) lighting outlet. NEC 210.70 (A) (2)	☐
Verify that wall switches are provided at each floor level where there are six or more steps between levels. NEC 210.70 (A) (2)	☐
CLOSETS	
Check clearances between luminaries and storage spaces, clothes closets if luminaires are installed. NEC 410.16	☐
LAUNDRY AREA	
Verify that at least one receptacle outlet is installed for the laundry. NEC 210.52 (F)	☐
Verify that a dedicated 20-A circuit supplies the laundry outlet (s) and no other outlets. NEC 210.11 (C) (2)	☐
Check for a laundry receptacle outlet within 6 ft. (1.8 m) of the intended appliance receptacle outlets location. NEC 210.50 (C)	☐

Check for proper receptacle ratings based on branch-circuit ratings, including receptacles for electric dryers (if used). NEC 210.21, 210.24	☐
Verify laundry branch circuit that lighting outlets for the area are supplied from general lighting circuits. NEC 210.11 (C) (2)	☐
BASEMENTS AND ATTICS	
Verify that at least one receptacle outlet is provided in unfinished basement areas, garage, accessory buildings in addition to any receptacles installed for laundry equipment. NEC 210.52 (G)	☐
Verify that a receptacle outlet is provided for servicing mechanical equipment, if any. NEC 210.63	☐
Verify that GFCI protection is provided for receptacles in unfinished portions of basements (other than receptacles for laundry, pumps or specific appliances). NEC 210.8	☐
Verify that individual branch circuits are supplied for central heating equipment, if any. NEC 422.12	☐
Verify that a wall-switch-controlled lighting outlet or a lighting outlet containing a switch is provided at the entrance to equipment requiring servicing or storage spaces. NEC 210.70 (A) (3)	☐
Check accessible attics, attic entrances, and scuttle holes for clearances from or protection of cable assemblies. NEC 320.23, 330.23, 334.23	☐
GARAGES (ATTACHED OR WITH ELECTRIC POWER)	
Verify that at least one receptacle outlet is provided per basements, garage, and accessory building. NEC 210.52 (G)	☐
Verify that GFCI protection is provided for all receptacles in garage.	☐
Verify that a wall-switch-controlled lighting outlet is provided. NEC 210.70 (A) (2)	
OUTDOORS	
Check for at least two receptacle outlets, one each at the front and back of the dwelling. NEC 210.52 (E), 210.63	☐
Verify that outdoor receptacles are GFCI protected unless they are not readily accessible and are supplied by circuits for deicing or snow-melting equipment. NEC 210.8	☐
Check for wall-switch-controlled (or remote, central, or automatic-controlled) exterior lighting outlets at outdoor entrances or exits with grade-level access. NEC 210.70 (A) (2)	☐
Check for boxes, conduit bodies, or fittings at exterior luminaire locations. NEC 300.15, 314.27	☐
Check for receptacles in balconies, decks, and porches within the perimeter of balcony,	

deck or porch. NEC 210.52 (E) (3)	

FINAL –001 (RESIDENTIAL) **ELECTRICAL**

SERVICE EQUIPMENT, FEEDERS AND PANELBOARDS	
Review grounding and bonding If not completed during previous inspections. NEC Article 250	☐
Check overcurrent devices for compatibility with protection of conductors (terminals, ratings and ampacities). NEC 240.4, 110.14, 310.15	☐
Check for proper identification of all overcurrent devices and disconnects means. NEC 110.22, 230.70	☐
Check mechanical execution of work for open spaces in panelboard fronts. NEC 110.12	☐
Verify that doorbell and other Class 2 wiring and transformers are located in appropriate places (not in-service equipment or panelboards). NEC 312.8, 725.35	☐
Verify that any back-fed overcurrent devices are secured in place. NEC 408.36 (D)	☐

INSPECTION GUIDELINES

FOUNDATION GROUNDING/UNDERGROUND – 074 (COMMERCIAL) **ELECTRICAL**

Building permit and approved set of plans	☐
Building permit number on the card is same as on the route	☐
If this is not the first inspection, read inspection records and notes on permit card	☐
Check for Notice of Commencement. FBC 105.8	☐
Check location, size, and type of connector of the equipment grounding conductors. NEC 250	☐
Check Underground Installations backfill protection and allowances for ground movement or underground conductors and raceways. NEC 300.5 and Table 300.5	☐
Check backfill size and type of conduits for adequate burial depth and protection, as well as suitability for location NEC Table 300.5, 300.5 (F), 310.7, 310.8, 340.10.	☐
Check service conductor warning ribbon. NEC 300.5 (D) (3)	☐
Check Underground Installations backfill protection and allowances for ground movement or underground conductors and raceways. NEC 300.5 and Table 300.5	☐

SLAB – 006 (COMMERCIAL) **ELECTRICAL**

Building permit and approved set of plans	☐
Building permit on the card is the same as on the route	☐
If this is not the first inspection, read inspection records and notes on permit card	☐
Check size and type of conduits for adequate burial depth and protection, as well as suitability for location. NEC Table 300.5, 300.5 (F), 310.7, 310.8, 340.10	☐
Check service conductor warning ribbon. NEC 300.5 (D) (3)	☐
Check Underground Installations backfill protection and allowances for ground movement or underground conductors and raceways. NEC 300.5 and Table 300.5	☐

ROUGH - 002 (COMMERCIAL) **ELECTRICAL**

Building permit and approved set of plans	☐
Building permit on the card is the same as on the route	☐
If this is not the first inspection, read inspection records and notes on permit card	☐
GENERAL WIRING METHODS	
Identify the wiring methods in use and verify their suitability for the occupancy and conditions. NEC various Chapter 3 articles	☐
Verify that all conductors of the same circuit are grouped together. NEC 300.3 (B)	☐
Check insulation values where conductors of different systems share common enclosures. NEC 300.3 (C) (1) and (2)	☐
Check cables and raceways wood members wiring methods for spacing from edges of framing and for protection against nails and screws. NEC 300.4 (A) (B) (D) and (E)	☐
Check for insulating bushings or grommets where NM cable is installed through metal studs or conductors 4 AWG or larger enter enclosures. NEC 300.4 (B) (1) and (F)	☐
Verify that electrical raceways and cable trays are used exclusively for electrical conductors. NEC 300.8	☐
Check for continuity and completeness in metal raceways and enclosures. NEC 300.10	☐
Verify that wiring methods are securely fastened in place, supported independently of suspended ceilings, and not used as supports. NEC 300.11 and applicable Chapter 3 article(s)	☐
Check device removal for continuity of grounded conductors in multiwire branch circuits. NEC 300.13 (B)	☐
Check for adequate length of free conductors at outlets, junctions, and switch points in boxes. NEC 300.14	☐
Verify that boxes are installed at junction, splice, outlet, switch and pull points. NEC 300.15	☐
Check numbers and size conductors fill in raceways. NEC 300.17	☐
Verify that raceway systems are complete runs prior to installation of conductors. NEC 300.18 (A)	☐
Check supporting conductors in vertical raceways. NEC 300.19	☐

Verify spread of fire ratings or products of combustion been restored at electrical penetrations. NEC 300.21	

ROUGH – 002 (COMMERCIAL) **ELECTRICAL**

Check installations of wiring in ducts, plenums and other air-handling spaces for proper methods and materials. NEC 300.22	☐
Verify panels designed to allow access to equipment behind removable panels are not compromised by cables, raceways, or equipment. NEC 300.23	☐
BOXES AND CONDUIT BODIES	
Identify wet and damp locations and the suitability of boxes and fittings. NEC 314.15	☐
Check numbers of conductors in outlets, device and junction boxes and conduit bodies for conductor fill. NEC 314.16	☐
Verify pull and junction boxes for conductors and conduit bodies 4 AWG and larger are adequately sized. NEC 314.28	☐
Verify that raceways and cables are secured to boxes and conduit bodies an conductors 4 AWG or Larger . NEC 314.17 (B) and (C)	☐
Check for closure of unused openings. NEC 314.17 (A)	☐
Verify that boxes in walls and ceilings are flush-mounted installations with the finished surface or, if surfaces are noncombustible, within 1/4 in. (6 mm) of the finished surface. NEC 314.20	☐
Check repairing Noncombustible surfaces for excessive gaps between edges of boxes and plaster, plasterboard, or drywall surfaces. NEC 314.21	☐
Verify that boxes are securely fastened and supported. NEC 314.23	☐
Check for covers or canopies on boxes. NEC 314.25 and 314.28 (C)	☐
Check lighting fixture outlet boxes at luminaire or lamp holder outlets for suitability floor boxes. NEC 314.27 (A) and (B)	☐
Check floor boxes and receptacle/cover assemblies for listing. NEC 314.27 (B)	☐
Check listing and installation of boxes ceiling-suspended used for support of ceiling-	☐

suspended (paddle fans. NEC 314.27 (C) and 422.18 Verify that all boxes, conduit bodies and handhole enclosure to be accessible. NEC 314.29 Verify that support means for nonmetallic boxes are outside the box or otherwise isolated from contact with conductors. NEC 314.43	☐

INSPECTION GUIDELINES

ROUGH – 002 (COMMERCIAL) **ELECTRICAL**

CABINETS AND CUTOUT BOXES	
Verify that cabinets and cutout boxes are suitable and properly installed in any wet or damp locations. NEC 312.2	☐
Verify that cabinets in wall are flush with the finished surface or, if surface is noncombustible, within 1/4 in. (6 mm) of the finished surface. NEC 312.3	☐
Check for closure of unused openings. NEC 312.5 (A)	☐
Verify that cables are secured to cabinets and cutout boxes or that the conditions for cables with nonmetallic sheaths are met. NEC 312.5 (C)	☐
Check deflection of conductors wiring and bending space in cabinets and cutout boxes. NEC 312.6	☐
Check cabinets and cutout boxes for adequate space in enclosure for conductors and for splices and taps where they exist. NEC 312.7 and 312.8	☐
SWITCHES AND RECEPTACLES	
Verify that all switching is done in the ungrounded conductors. NEC 404.2	☐
Verify that switches are located not over 6 ft. 7 in. (2 m) high and that they can be operated from readily accessible places unless otherwise permitted. NEC 404.8 (A)	☐
Verify that the voltage between adjacent devices grouped or ganged devices is not over 300 volts or that barriers are installed. NEC 404.8 (B)	☐
Verify mounting of general -use snap switches, dimmers and control switches or receptacles in boxes have their plaster ears seated against the wall surface or the box. NEC 404.10 (B) and 406.4 (A) and (B)	☐
SERVICES	
Verify numbers of services that each building or structure has only one service or, if more than one, that additional services are justified. NEC 230.2	☐
Verify that each service drop or lateral serves only one set of service-entrance conductors or, if more than one, that the additional sets are justified. NEC 230.40	☐
Check clearances from building openings, grade, roadway, roofs and swimming pools. NEC 230.24	☐
Verify that the point of attachment for an overhead service drop is adequate and will provide minimum clearances. NEC 230.26, 230.27	☐

ROUGH – 002 (COMMERCIAL) **ELECTRICAL**

Verify that masts used as support for service-drop conductors have adequate strength and are not used to support other conductors or equipment. NEC 230.28	☐
Verify that support over building for service conductors passing over a roof are adequate and substantial. NEC 230.29	☐
Check above-ground conductors and cables for adequate mounting support and protection against physical damage. NEC 230.50, 230.51	☐
Verify that wiring methods or support system for service-entrance conductors are suitable. NEC 230.43, 230.44, 230.202	☐
Verify that service raceways are arranged to drain and that service heads are raintight and properly located. NEC 230.53, 230.54	☐
Check size and ampacity service conductors for adequate size and rating. NEC 230.23, 230.31, 230.42	☐
Verify marking that service equipment is identified as suitable for the use. NEC 230.66	☐
Verify that a service disconnecting means is provided, suitable, marked and located outside or inside nearest the point of entrance of the service conductors. NEC 230.70	☐
Verify that service overcurrent protection is provided, properly sized, and part to or adjacent to the disconnecting means. NEC 230.90, 230.91	☐
Verify that service maximum numbers of disconnects are grouped together and limited to six in any one location. NEC 230.71, 230.72	☐
Check ratings of service disconnecting means and combined rating of disconnects NEC 230.79, 230.80	☐
Check for equipment connected to the supply side of the service disconnecting means and overcurrent protection. NEC 230.82, 230.94	☐
FEEDERS	☐
Verify that feeders are at least equal to the minimum required size. NEC 215.2	☐
Verify that feeder conductors, including any neutral conductors, are adequate for the load. NEC 220.40, 220.80	☐
Check overcurrent device and feeder conductor sizing for continuous and noncontinuous loads. NEC 220.61, 215.3	☐
Check feeders with disconnecting means rated at 1000 A or greater for GFP for equipment if required. NEC 215.10, 230.95	☐

ROUGH – 002 (COMMERCIAL) **ELECTRICAL**

Verify that disconnects are provided at separate structures for feeders running between structures. NEC Article 225, Part II	☐
Verify that disconnects at separate structures are properly rated, located, grouped and identified. NEC Article 225, Part II	☐
Verify that any outside feeders use appropriate wiring on building methods and are properly supported and arranged to drain. NEC 225.10 and 225.20 through 225.22	☐
Check any outside feeders for adequate supports, clearances, and mechanical protection. NEC 225.15 through 225.20	☐
Verify that feeders tapped conductors from transformers are properly protected by overcurrent devices rated over 800 amperes. NEC 240.4 (E) and (F), 240.21 (C)	☐
Check panelboards supplying or supplied by feeders for overcurrent protection, grounding, proper enclosures, and number of overcurrent devices. NEC 408 III	☐
BRANCH CIRCUITS	
Verify that wiring methods used are appropriate for the conditions and occupancy. NEC Chapter 3	☐
Check panelboards for proper overcurrent protection and limitations on number of overcurrent devices. NEC 408.36 through 408.54	☐
Check individual and multiwire branch circuits for proper ratings. NEC 210.3	☐
Check conductors and overcurrent protection for consideration of continuous and noncontinuous loads, multioutlet loads, and minimum ampacity and size. NEC 210.19, 210.20	☐
Check branch circuits supplying receptacles and other outlet devices for permitted ratings of circuits and receptacles. NEC 210.21, 210.24	☐
Verify that branch-circuit loads do not exceed maximum permitted loads. NEC 220 II	☐
Verify that branch circuits supplying motors are sized according to Article 430 or 440 and that inductive lighting loads are based on ballast ratings. NEC 220.18	☐
Verify that branch circuits are used to supply only permissible loads based on their ratings. NEC 210.23	☐
Verify that the number of branch circuits is adequate and that the load is evenly proportioned among the branch circuits. NEC 210.11	☐
Check for compliance with branch-circuit voltage limitations. NEC 210.6	☐

ROUGH – 002 (COMMERCIAL) **ELECTRICAL**

Verify that branch circuits for specific loads meet the requirements of the applicable articles. NEC 210.2	☐
Check for proper use and identification of multiwire branch circuits. NEC 210.4, 210.5	☐
Check for equipment requiring servicing receptacles and lighting outlets at mechanical equipment. NEC 210.63, 210.70 (C)	☐
Check for required outlets or receptacles for show windows and signs. NEC 210.62, 600.5 (A)	☐
Verify that receptacles outlets are provided for all cord-and plug-connected appliances, and where flexible cords are used. NEC 210.50	☐
Verify that GFCI protection is provided for receptacles in bathrooms, in kitchens, and on rooftops other than dwelling units. NEC 210.8 (B)	☐
Verify that disconnects are provided at separate structures for branch circuits running between structures. NEC Article 225, Part II, 225.31, 225.32 and 225.33	☐
Check conductors' size and support and clearances for outside branch circuits. NEC 225.6, 225.18, 225.19	☐
SERVICE GROUNDING AND BONDING	
Determine what grounding electrodes are available on the premises. NEC 250.50, 250.52 (A) (1) through (8)	☐
Determine which other grounding electrodes are required or used. NEC 250.52 (A) (1) through (8)	☐
Verify that the grounding electrode conductor or conductors are properly sized. NEC 250.66, 250.64 (F)	☐
Verify aluminum or copper-clad that the grounding electrode conductors are protected and secured. NEC 250.64 (A) and (B)	☐
Verify that grounding electrode conductor enclosures and raceways are properly bonded. NEC 250.64 (E)	☐
Verify that grounding electrode conductor is either unspliced or spliced using appropriate methods. NEC 250.64 (C)	☐
Check for correct size and installation of any rod or pipe electrodes. NEC 250.52, 250.53 (G)	☐
Verify the accessibility of grounding electrode conductor connections. NEC 250.68 (A)	☐
Check for proper methods grounding and bonding, electrode conductor connections, including buried connections. NEC 250.70, 250.68	☐

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Verify that metal water pipe is bonded. NEC 250.104 (A)	☐
Verify that exposed structural metal building frames are bonded. NEC 250.104 (C)	☐
Check for proper size and length of bonding jumpers around metal water piping meters and the like. NEC 250.66, 250.68 (B), 250.104 (A)	☐
Check the size, type and installation of the main bonding jumper and system bonding jumper NEC 250.28	☐
Verify appropriate grounding methods for equipment fastened in place or connected by permanent wiring methods and secured to grounded metal supports. NEC 250.134, 250.136	☐
Verify appropriate types of equipment grounding conductors. NEC 250.118	☐
Check separate equipment grounding conductors for proper sizing and identification. NEC 250.122, 250.119	☐
Check connections of equipment receptacle grounding terminal conductors and attachment in boxes. NEC 250.146, 250.148	☐
Verify that proper methods are used to bond receptacles and connection of grounding and bonding equipment to boxes. NEC 250.146, 250.8	☐
Check installation of equipment bonding other enclosures jumpers, especially where flexible connections of cords are used. NEC 250.96, 250.102, 350.60, 348.60	☐
Verify grounding of panelboards and connections of equipment grounding conductors terminations. NEC 408.40, 408.41	☐
Verify proper grounding systems at separate buildings or structures. NEC 250.32 (B) (1) (2)	☐
Check equipment ground circuit conductor of electrical frames ranges and clothes dryers. NEC 250.140, 250.142	☐
Verify bonding of raceways and cable sheaths containing circuits operating at over 250 volts to ground. NEC 250.97	☐
Check installations with isolated ground receptacles, equipment conductors for proper connections and for grounding of panelboards the associated enclosures and wiring methods. 250.146 (D), 250.96 (B), 406.3 (D), 408.40	☐
Check for occupancies or equipment with special grounding or bonding requirements. NEC 250.4	☐
WHEELCHAIR ACCESSIBILITY	
Forward reach for wheelchairs; verify receptacles no lower than 15" AFF, no higher than 48" AFF. FBC ACCESSIBILITY 308.	

INSPECTION GUIDELINES

ROUGH - 002 (COMMERCIAL) **ELECTRICAL**

Clear side reach for wheelchair, verify receptacles no lower than 9" AFF, no higher than 54" AFF. FBC ACCESSIBILITY 308.	☐
Maximum forward reach with obstruction less than 20" into space: 48" AFF. FBC ACCESSIBILITY 308.	☐
Maximum forward reach with obstruction between 20" to 25" in o space: 44" AFF. FBC ACCESSIBILITY 308.	☐
Maximum side-reach with obstruction 34" high and 24" wide: 46" AFF. FBC ACCESSIBILITY 308.	☐

INSPECTION GUIDELINES

FINAL - 001 (COMMERCIAL) **ELECTRICAL**

Building permit and approved set of plans	☐
Building permit on the card is the same as on the route	☐
If this is not the first inspection, read inspection records and notes on permit card	☐
Verify that all devices, luminaries and equipment are installed and secured as shown on the approved plans	☐
CABINETS AND CUTOUT BOXES	
Verify that cabinets and cutout boxes are suitable and properly installed in any wet or damp locations. NEC 312.2	☐
Verify that cabinets position in wall are flush with the finished surface or, if surface is noncombustible, within 1/4 in. (6 mm) of the finished surface. NEC 312.3	☐
SWITCHES AND RECEPTACLES	
Verify that any switches in damp or wet locations are properly installed in weatherproof enclosures. NEC 404.4	☐
Verify that switches are located not over 6 ft. 7 in. (2 m) high and that they can be operated from readily accessibility and grouping places unless otherwise permitted. NEC 404.8 (A)	☐
Verify that rating and use of switch boxes, switches and any metal faceplates are grounding of enclosures. NEC 404.9 (B) and 404.12	☐
Verify that switches and receptacles are used within their ratings. NEC 404.14, 406.3 (A) and 430.109	☐
Verify that general-use dimmers and electronic control switches are installed only for control of permanently installed incandescent lighting. NEC 404.14 (E)	☐
Check listing and marking of any CO/ALR snap switches or receptacles rating and type used with aluminum conductors. NEC 404.14 (C), 406.3 (C) and 110.14	☐
Check receptacles in wet or damp locations for proper covers and enclosures. NEC 406.9	☐
Verify that isolated ground receptacles are properly identified and connected to isolated grounding conductors. NEC 406.3 (D)	☐
Check the receptacles project from metal facplates or are flush with nonmetallic faceplates and that the faceplates cover openings. NEC 406.6	☐
Check receptacles for proper polarity and for grounding and bonding connections. NEC 406.4, 250.146, and 200.11	☐
Verify that receptacle ratings and branch-circuit ratings are compatible. NEC 210.21 and 210.24	☐

INSPECTION GUIDELINES

FINAL - 001 (COMMERCIAL) **ELECTRICAL**

SERVICES	
Verify that each building or structure has only one service or, if more than one, that additional services are justified. NEC 230.2	☐
Verify that each service drop or lateral serves only one set of service-entrance conductors or, if more than one, that the additional sets are justified. NEC 230.40	☐
Check clearances from building openings, grade, roadway, roofs, and swimming pools. NEC 230.24	☐
Verify that the point of attachment for an overhead service drop is adequate and will provide minimum clearances. NEC 230.26, 230.27	☐
Verify that masts as support for service-drop conductors have adequate strength and are not used to support other conductors or equipment. NEC 230.28	☐
Verify that support over buildings for service conductors passing over a roof are adequate and substantial. NEC 230.29	☐
Verify that marking service equipment is identified as suitable for the use. NEC 230.66	☐
Verify that a service disconnecting means is provided, suitable, marked and located outside or inside nearest the point of entrance of the service conductors. NEC 230.70	☐
Verify that service overcurrent protection is provided, properly sized, and part to or adjacent to the disconnecting means. NEC 230.90, 230.91	☐
Verify that service disconnects are grouped together and limited to six in any one location. NEC 230.71, 230.72	☐
Check ratings of service disconnecting means and combined rating of disconnects. NEC 230.79, 230.80	☐
BRANCH CIRCUITS	
Check for required receptacles and lighting at mechanical equipment. NEC 210.63, 210.70 (C)	☐
Check for required outlets or receptacles and GFCI for show windows and signs. NEC 210.62, 600.5 (A)	☐
Verify that GFCI protection is provided for receptacles in bathrooms, in kitchens, and on rooftops other than dwelling units. NEC 210.8 (B)	☐
Verify that disconnects are provided at separate structures for branch circuits running between structures. NEC Article 225, Part II, 225.31, 225.32 and 225.33	☐

INSPECTION GUIDELINES

FINAL - 001 (COMMERCIAL) **ELECTRICAL**

SERVICE GROUNDING AND BONDING	
Verify that the grounding installation to electrode conductor or conductors are properly sized. NEC 250.66, 250.64 (F)	☐
Verify that the grounding electrode conductors are protected and secured. NEC 250.64 (A) and (B)	☐
Check for correct size and installation of any rod or pipe electrodes. NEC 250.52, 250.53 (G)	☐
Verify that metal water pipe is bonded. NEC 250.104 (A)	☐
Verify that exposed structural metal building frames are bonded. NEC 250.104 (C)	☐
Check for proper size and length of bonding jumpers around water meters and the like. NEC 250.66, 250.68 (B), 250.104 (A)	☐
Check separately derived systems for proper grounding electrodes, grounding electrode conductors and bonding jumpers. NEC 250.30 (A)	☐
EQUIPMENT GROUNDING AND BONDING	
Check for occupancies or equipment with special grounding or bonding requirements. NEC 250.3	☐
WHEELCHAIR ACCESSIBILITY	
Forward reach for wheelchairs, verify receptacles no lower than 15" AFF, no higher than 48" AFF. FBC ACCESSIBILITY 308.	☐
Clear side reach for wheelchair, verify receptacles no lower than 14" AFF, no higher than 48" AFF. FBC ACCESSIBILITY 308.	☐
Maximum forward reach with obstruction less than 20" into space: 48" AFF. FBC ACCESSIBILITY 308.	☐
Maximum forward reach with obstruction between 20" to 25" in o space: 44" AFF. FBC ACCESSIBILITY 308.	☐
Maximum side-reach with obstruction 34" high and 24" wide: 46" AFF. FBC ACCESSIBILITY 308.	☐

REQUIREMENTS FOR SWIMMING POOLS	ELECTRICAL
680.8 Overhead Conductor Clearances. See Table 680.8	☐
680.10 Underground Wiring Location	☐
680.21(C) GFCI Protection- Outlets supplying pool pump motors connected to single-phase, 120-volt through 240-volt branch circuits, whether by receptacle or by direct connection, shall be provided with ground-fault circuit-interrupter protection for personnel.	☐
680.22 (A)(3) Dwelling Unit(s). Where a permanently installed pool is installed at a dwelling unit(s), no fewer than one 125-volt, 15 or 20-ampere receptacle on a general-purpose branch circuit shall be located not less than 1.83 m (6ft) from, and not more than 6.0 m (20 ft) from, the inside wall of the pool. This receptacle shall be located not more than 2.0 m (6 ft 6 in.) above the floor, platform, or grade level serving the pool.	☐
680.22 (B)(3) and (4) Requirements for Luminaires, lighting outlets, and ceiling-suspended (paddle) in new and existing installations	☐
680.25(B) Grounding, an equipment grounding conductor shall be installed with the feeder conductors between the grounding terminal of the pool equipment panelboard and the grounding terminal of the applicable service equipment of source of a separately derives system	☐
680.26 Equipotential Bonding, bonding parts, the parts specified in 680.26(B)(1) through (B)(7) shall be bonded together using solid copper conductors, insulated covered, or bare, not smaller than 8 AWG or with rigid metal conduit of brass or other identified corrosion-resistant metal	☐
(C) Pool water, an intentional bond of a minimum conductive surface area of 5800 mm² (9 in.²) shall be installed in contact with the pool water. This bond shall be permitted to consist of parts that are required to be bonded in 680.26(B)	☐
690.33 Luminaires, an underwater luminaire, if installed shall be installed in or on the wall of the storable pool. It shall comply with 680.33 (A)	☐
Low Voltage Contact Limit, a voltage not exceeding the following values: (1) 15 volts (RMS) for sinusoidal ac (2) 21.2 volts peak for non-sinusoidal ac (3) 30 volts for continuous dc (4) 12.4 volts peak for dc that is interrupted at a rate of 10 to 200 Hz The maximum incandescent lamp size shall be 300 watts. This voltage limitation may be found in Municode 8-31 (D) as well as FBC 454.1.4.2.3 Pool pumps and heaters must comply with RE403.9 which refers to referenced standards ANSI/APSP-15	☐