



CHAPTER 12 ARTICLE II. BUILDING CODES*
DIVISION 7. RESIDENTIAL CODE
INTERNATIONAL RESIDENTIAL CODE
APPENDIX J – EXISTING STRUCTURES

*Cross reference(s)--Airport zoning, § 5-36 et seq.; erosion and sedimentation control, Ch. 15; fire prevention codes and standards, § 17-101 et seq.; floodplain management, Ch. 18; open housing, § 22-41 et seq.; planning and development, Ch. 34; preservation, Ch. 37; awnings, § 42-176 et seq.; subdivisions, Ch. 43; zoning, App. A. --State law reference(s)--Powers of home rule units, Ill. Const. art. VII, § 6.

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Sec. 12-17.6. 2012 IRC APPENDIX J Additions, insertions, deletions and changes.

SECTION AJ101 - PURPOSE AND INTENT

AJ101.1 General. The **purpose of these provisions is to encourage the continued use or reuse of legally existing buildings and structures.** These provisions are intended to permit work in existing buildings that is consistent with the purpose of the *International Residential Code*. Compliance with these provisions shall be deemed to meet the requirements of the *International Residential Code*. **Unless imminently dangerous OR unless indicated otherwise in this code; existing components and existing installations shall be permitted to remain in installed and approved condition(s) for the installed and approved purpose(s).**

AJ101.2 Classification of work. For purposes of this appendix, all work in existing buildings shall be classified into the categories of repair, renovation, *alteration* and reconstruction. Specific requirements are established for each category of work in these provisions.

AJ101.3 Multiple categories of work. Work of more than one category may be part of a single work project. All related work permitted within a 12-month period shall be considered a single work project. Where a project includes one category of work in one building area and another category of work in a separate and unrelated area of the building, each project area shall comply with the requirements of the respective category of work. Where a project with more than one category of work is performed in the same area or in related areas of the building, the project shall comply with the requirements of the more stringent category of work.

SECTION AJ102 - COMPLIANCE

AJ102.1 General. Regardless of the category of work being performed, the work shall not cause the structure to become unsafe or adversely affect the performance of the building; shall not cause an existing mechanical or plumbing system to become unsafe, hazardous, insanitary or overloaded; and unless expressly permitted by these provisions, shall not make the building any less conforming to this code or to any previously *approved* alternative arrangements than it was before the work was undertaken.

AJ102.2 Requirements by category of work. Repairs shall conform to the requirements of Section AJ301. Renovations shall conform to the requirements of Section AJ401. *Alterations* shall conform to the requirements of Section AJ501 and the requirements for renovations. Reconstructions shall conform to the requirements of Section AJ601 and the requirements for *alterations* and renovations.

AJ102.2.1 Limitations of Additional Compliance for Existing Buildings. The code official shall be limited, in requiring additional code compliance of Existing buildings undergoing repair, alteration and remodeling; to the provisions specified in Tables referenced in AJ701 and as further enumerated by the category of work in this chapter.

- 1. Exceptions:** Items deemed imminently dangerous by the code official shall be remedied as required.
- The provisions of this chapter shall not be construed to allow the elimination of safety systems or a reduction in the level of safety provided in buildings constructed in accordance with the previously adopted codes.

AJ102.3 Smoke detectors. Smoke detectors shall be provided in proportion to the intensity of the category of work as required by this chapter.

AJ102.4 Replacement windows. Regardless of the category of work, when an existing window, including sash and glazed portion is replaced, the replacement window shall comply with the requirements of Chapter 11.

- AJ102.5 Flood hazard areas.** Work performed in existing buildings located in a flood hazard area as established by Table R301.2(1) shall be subject to the provisions of Section R105.3.1.1.
- AJ102.6 Equivalent alternatives.** These provisions are not intended to prevent the use of any alternate material, alternate design or alternate method of construction not specifically prescribed herein, provided any alternate has been deemed to be equivalent and its use authorized by the *building official*.
- AJ102.7 Other alternatives.** Where compliance with these provisions or with this code as required by these provisions is technically infeasible or would impose disproportionate costs because of structural, construction or dimensional difficulties, other alternatives may be accepted by the *building official*. These alternatives may include materials, design features and/or operational features.
- AJ102.8 More restrictive requirements.** Buildings or systems in compliance with the requirements of this code for new construction shall not be required to comply with any more restrictive requirement of these provisions.
- AJ102.9 Features exceeding *International Residential Code* requirements.** Elements, components and systems of existing buildings with features that exceed the requirements of this code for new construction, and are not otherwise required as part of *approved* alternative arrangements or deemed by the *building official* to be required to balance other building elements not complying with this code for new construction, shall not be prevented by these provisions from being modified as long as they remain in compliance with the applicable requirements for new construction.

SECTION AJ103 - PRELIMINARY MEETING

AJ103.1 General. If a building *permit* is required at the request of the prospective *permit* applicant, the *building official* or his designee shall meet with the prospective applicant to discuss plans for any proposed work under these provisions prior to the application for the *permit*. The purpose of this preliminary meeting is for the *building official* to gain an understanding of the prospective applicant's intentions for the proposed work, and to determine, together with the prospective applicant, the specific applicability of these provisions.

SECTION AJ104 - EVALUATION OF AN EXISTING BUILDING

AJ104.1 General. The *building official* may require an existing building to be investigated and evaluated by a registered design professional in the case of proposed reconstruction of any portion of a building. The evaluation shall determine the existence of any potential non-conformities with these provisions, and shall provide a basis for determining the impact of the proposed changes on the performance of the building. The evaluation shall use the following sources of information, as applicable:

1. Available documentation of the existing building.
 - 1.1. Field surveys.
 - 1.2. Tests (nondestructive and destructive).
 - 1.3. Laboratory analysis.

Exception: Detached one- or two-family dwellings that are not irregular buildings under Section R301.2.2.2.5 and are not undergoing an extensive reconstruction shall not be required to be evaluated.

SECTION AJ105 - PERMIT

AJ105.1 Identification of work area. The work area shall be clearly identified on all *permits* issued under these provisions.

SECTION AJ201 - DEFINITIONS *(Category Specific Definitions have been moved into the categories below)*

AJ201.1 General. For purposes of this appendix, the terms used are defined as follows.

CATEGORIES OF WORK. The nature and extent of construction work undertaken in an existing building. The categories of work covered in this Appendix, listed in increasing order of stringency of requirements, are repair, renovation, *alteration* and reconstruction.

DANGEROUS. Where the stresses in any member; the condition of the building, or any of its components or elements or attachments; or other condition that results in an overload exceeding 150 percent of the stress allowed for the member or material in this code.

EQUIPMENT OR FIXTURE. Any plumbing, heating, electrical, ventilating, air conditioning, refrigerating and fire protection *equipment*, and elevators, dumb waiters, boilers, pressure vessels, and other mechanical facilities or installations that are related to building services.

EXISTING, EXISTING INSTALLATION. Any structure, component or installation regulated by this code that was legally installed prior to the effective date of this code adoption, AND for which the required permits and inspections have been issued and approved.

Note: In the absence of proof of legal installation or approval, the code official or his/her designee shall use historical code information and research to determine lack of legal installation or approval.

LOAD-BEARING ELEMENT. Any column, girder, beam, joist, truss, rafter, wall, floor or roof sheathing that supports any vertical load in addition to its own weight, and/or any lateral load.

MATERIALS AND METHODS REQUIREMENTS. Those requirements in this code that specify material standards; details of installation and connection; joints; penetrations; and continuity of any element, component or system in the

building. The required quantity, fire resistance, flame spread, acoustic or thermal performance, or other performance attribute is specifically excluded from materials and methods requirements.

REHABILITATION. Any repair, renovation, *alteration* or reconstruction work undertaken in an existing building.

WORK AREA. That portion of a building affected by any renovation, *alteration* or reconstruction work as initially intended by the owner and indicated as such in the *permit*. Work area excludes other portions of the building where incidental work entailed by the intended work must be performed, and portions of the building where work not initially intended by the owner is specifically required by these provisions for a renovation, *alteration* or reconstruction.

LEVEL 00 - REPAIR

SECTION AJ301 LEVEL 00 - REPAIRS

REPAIR. The patching, restoration and/or minor **replacement of materials**, elements, components, *equipment* and/or fixtures **for the purposes of maintaining** those materials, elements, components, *equipment* and/or fixtures in good or sound condition.

AJ301.1 Materials. Except as otherwise required herein, work shall be done using like materials or materials permitted by this code for new construction. **Refer to AJ701 for limitations on additional requirements at existing structures by trade.**

AJ301.1.1 Hazardous materials. Hazardous materials no longer permitted, such as asbestos and lead-based paint, shall not be used.

AJ301.1.2 Plumbing materials and supplies. The following plumbing materials and supplies shall not be used:

1. All-purpose solvent cement, unless listed for the specific application;
2. Flexible traps and tailpieces, unless listed for the specific application; and
3. Solder having more than 0.2 percent lead in the repair of potable water systems.

AJ301.2 Water closets. When any water closet is replaced with a newly manufactured water closet, the replacement water closet shall comply with the requirements of Section P2903.2.

AJ301.3 Safety glazing. Replacement glazing in hazardous locations shall comply with the safety glazing requirements of Section R308.1.

AJ301.4 Electrical. Repair or replacement of existing electrical wiring and *equipment* undergoing repair with like material shall be permitted.

Exceptions:

1. Replacement of electrical receptacles shall comply with the requirements of Chapters 34 through 43.
2. Plug fuses of the Edison-base type shall be used for replacements only where there is no evidence of over-fusing or tampering per the applicable requirements of Chapters 34 through 43.
3. For replacement of non-grounding-type receptacles with grounding-type receptacles and for branch circuits that do not have an *equipment* grounding conductor in the branch circuitry, the grounding conductor of a grounding type receptacle outlet shall be permitted to be grounded to any accessible point on the grounding electrode system, or to any accessible point on the grounding electrode conductor, as allowed and described below.
 - (a). A non-grounding-type receptacle(s) shall be permitted to be replaced with a ground-fault circuit interrupter type of receptacle(s). These receptacle(s) shall be marked "No Equipment Ground". An equipment grounding conductor shall be connected from the ground-fault circuit-interrupter-type receptacle to any outlet supplied from the ground-fault circuit-interrupter receptacle.
 - (b). A non-grounding-type receptacle(s) shall be permitted to be replaced with a grounding type receptacle(s) where supplied through a ground-fault circuit interrupter. Grounding-type receptacles supplied through the ground fault circuit interrupter shall be marked "GFCI Protected" and "No Equipment Ground". An equipment grounding conductor shall not be connected between the grounding-type receptacles.

ALTERATION LEVEL 01 - RENOVATION

SECTION AJ401 ALTERATION Level 01 – RENOVATION

RENOVATION. The change, strengthening or *addition* of load-bearing elements; and/or the refinishing, replacement, bracing, strengthening, upgrading or extensive repair of existing materials, elements, components, *equipment* and/or fixtures. Renovation involves **no reconfiguration of spaces**. Interior and exterior painting are not considered refinishing for purposes of this definition, and are not renovation.

AJ401.1 Materials and methods. The work shall comply with the materials and methods requirements of this code. Refer to AJ701 for limitations on additional requirements at existing structures by trade.

AJ401.2 Door and window dimensions. Minor reductions in the clear opening dimensions of replacement doors and windows that result from the use of different materials shall be allowed, whether or not they are permitted by this code.

AJ401.3 Interior finish. Wood paneling and textile wall coverings used as an interior finish shall comply with the flame spread requirements of Section R302.9.

AJ401.4 Structural. Unreinforced masonry buildings located in Seismic Design Category D₂ or E shall have parapet bracing and wall anchors installed at the roofline whenever a reroofing *permit* is issued. Such parapet bracing and wall anchors shall be of an *approved* design.

AJ401.5 Electrical equipment and wiring. Newly installed electrical *equipment* and wiring relating to new work done in any work area shall comply with the materials and methods requirements of Chapters 34 through 43.

Exception: Electrical *equipment* and wiring in newly installed partitions and ceilings shall comply with all applicable requirements of Chapters 34 through 43; **unless otherwise permitted by AJ701 and the building official.**

ALTERATION LEVEL 02 – ALTERATION / RECONFIGURATION

SECTION AJ501 ALTERATION LEVEL 02 – ALTERATION / RECONFIGURATION

ALTERATION. The **reconfiguration of any space**, the *addition* or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional *equipment*.

AJ501.1 Newly constructed elements. Newly constructed elements, components and systems shall comply with the requirements of this code. Refer to AJ701 for limitations on additional requirements at existing structures by trade.

Exceptions:

1. Openable windows may be added without requiring compliance with the light and ventilation requirements of Section R303.
2. Newly installed electrical *equipment* shall comply with the requirements of Section AJ501.5.
3. Additions to existing structures which would create a first floor total Living Space footprint of greater than the sprinklering thresholds in R313 shall not be required to be sprinklered unless more than 50 percent of the area of the dwelling unit is being remodeled.

AJ501.2 Nonconformities. The work shall not increase the extent of noncompliance with the requirements of Section AJ601, or create nonconformity with those requirements which did not previously exist.

AJ501.3 Extensive alterations. When the total area of all the work areas included in an *alteration* exceeds 50 percent of the area of the *dwelling unit*, the work shall be considered as a reconstruction and shall comply with the requirements of these provisions for reconstruction work.

NOTE: Work areas in which the *alteration* work is exclusively plumbing, mechanical or electrical shall not be included in the computation of total area of all work areas.

AJ501.4 Structural. The minimum design loads for the structure shall be the loads applicable at the time the building was constructed, provided that no dangerous condition is created. Structural elements that are uncovered during the course of the *alteration* and that are found to be unsound or dangerous shall be made to comply with the applicable requirements of this code.

AJ501.5 Electrical equipment and wiring.

AJ501.5.1 Materials and methods. Newly installed electrical *equipment* and wiring relating to work done in any work area shall comply with the materials and methods requirements of Chapters 34 through 43.

Exception: Electrical *equipment* and wiring in newly installed partitions and ceilings shall comply with all applicable requirements of Chapters 34 through 43; **unless otherwise permitted by AJ701 or the building official.**

AJ501.5.2 Electrical service. Service to the *dwelling unit* shall be a minimum of 100 ampere, three-wire capacity and service *equipment* shall be dead front having no live parts exposed that could allow accidental contact. Type “S” fuses shall be installed when fused *equipment* is used.

Exception: Existing service of 60 ampere, three-wire capacity, and feeders of 30 ampere or larger two- or three-wire capacity shall be accepted if adequate for the electrical load being served.

AJ501.5.3 Additional electrical requirements. When the work area includes any of the following areas within a *dwelling unit*, the requirements of Sections AJ501.5.3.1 through AJ501.5.3.5 shall apply.

AJ501.5.3.1 Enclosed areas. Enclosed areas other than closets, kitchens, *basements*, garages, hallways, laundry areas and bathrooms shall have a minimum of two duplex receptacle outlets, or one duplex receptacle outlet and one ceiling or wall type lighting outlet.

AJ501.5.3.2 Kitchen and laundry areas. Kitchen areas shall have a minimum of two duplex receptacle outlets. Laundry areas shall have a minimum of one duplex receptacle outlet located near the laundry *equipment* and installed on an independent circuit.

AJ501.5.3.3 Ground-fault circuit-interruption. Ground fault circuit interruption shall be provided on newly installed receptacle outlets if required by Chapters 34 through 43.

AJ501.5.3.4 Lighting outlets. At least one lighting outlet shall be provided in every bathroom, hallway, stairway, attached garage and detached garage with electric power to illuminate outdoor entrances and exits, and in utility rooms and *basements* where these spaces are used for storage or contain *equipment* requiring service.

AJ501.5.3.5 Clearance. Clearance for electrical service *equipment* shall be provided in accordance with Chapters 34 through 43.

AJ501.5.3.6 Shall be added as follows:

AJ501.5.3.6 Number of openings. General purpose and lighting outlet openings on an existing residence shall not be limited to 4 receptacles on a kitchen appliance circuit or 10 on a 15-amp circuit or 13 on a 20-amp circuit. Rather, the number of openings shall be governed by the calculations in the NEC.

Exception: Full or partial basement finishes.

AJ501.6 Ventilation. All reconfigured spaces intended for occupancy and all spaces converted to habitable or occupiable space in any work area shall be provided with ventilation in accordance with Section R303.

AJ501.7 Ceiling height. *Habitable spaces* created in existing *basements* shall have ceiling heights of not less than 6 feet 8 inches (2032 mm). Obstructions may project to within 6 feet 4 inches (1930 mm) of the *basement* floor. Existing finished ceiling heights in non-habitable spaces in *basements* shall not be reduced.

AJ501.8 Stairs.

AJ501.8.1 Stair width. Existing *basement* stairs and handrails not otherwise being altered or modified shall be permitted to maintain their current clear width at, above, and below existing handrails.

AJ501.8.2 Stair headroom. Headroom height on existing *basement* stairs being altered or modified shall not be reduced below the existing stairway finished headroom. Existing *basement* stairs not otherwise being altered shall be permitted to maintain the current finished headroom.

AJ501.8.3 Stair landing. Landings serving existing *basement* stairs being altered or modified shall not be reduced below the existing stairway landing depth and width. Existing *basement* stairs not otherwise being altered shall be permitted to maintain the current landing depth and width.

ALTERATION LEVEL 03 – RECONSTRUCTION / EXTENSIVE ALTERATION

SECTION AJ601 ALTERATION LEVEL 03 RECONSTRUCTION / EXTENSIVE ALTERATION

RECONSTRUCTION. The reconfiguration of a space that affects an exit, a renovation and/or *alteration* when the work area is not permitted to be occupied because existing means of egress and fire protection systems, or their equivalent, are not in place or continuously maintained; and/or there are extensive alterations as defined in Section AJ501.3.

EXTENSIVE ALTERATION When the total area of all the work areas included in an *alteration* exceeds 50 percent of the area of the *dwelling unit*, the work shall be considered as a reconstruction and shall comply with the requirements of alterations for reconstruction work.

Exception: Work areas in which the *alteration* work is exclusively plumbing, mechanical or electrical shall not be included in the computation of total area of all work areas.

AJ601.1 Stairways, handrails and guards.

AJ601.1.1 Stairways. Stairways within the work area shall be provided with illumination in accordance with Section R303.6.

AJ601.1.2 Handrails. Every required exit stairway that has four or more risers, is part of the means of egress for any work area, and is not provided with at least one handrail, or in which the existing handrails are judged to be in danger of collapsing, shall be provided with handrails designed and installed in accordance with Section R311 for the full length of the run of steps on at least one side.

AJ601.1.3 Guards. Every open portion of a stair, landing or balcony that is more than 30 inches (762 mm) above the floor or *grade* below, is part of the egress path for any work area, and does not have guards or in which the existing guards are judged to be in danger of collapsing, shall be provided with guards designed and installed in accordance with Section R312.

AJ601.2 Wall and ceiling finish. The interior finish of walls and ceilings in any work area shall comply with the requirements of Section R302.9. Existing interior finish materials that do not comply with those requirements shall be removed or shall be treated with an *approved* fire-retardant coating in accordance with the manufacturer's instructions to secure compliance with the requirements of this section.

AJ601.3 Separation walls. Where the work area is in an attached *dwelling unit*, walls separating *dwelling units* that are not continuous from the foundation to the underside of the roof sheathing shall be constructed to provide a continuous fire separation using construction materials consistent with the existing wall or complying with the requirements for new structures. Performance of work shall be required only on the side of the wall of the *dwelling unit* that is part of the work area.

AJ601.4 Ceiling height. *Habitable spaces* created in existing *basements* shall be permitted to have ceiling heights of not less than 6 feet 8 inches (2032 mm). Obstructions may project to within 6 feet 4 inches (1930 mm) of the *basement* floor. Existing finished ceiling heights in non-habitable spaces in *basements* shall not be reduced.

SECTION AJ701 LIMITATIONS OF ADDITIONAL COMPLIANCE FOR EXISTING BUILDINGS IN PROPORTION TO THE EXTENT OF THE WORK INITIALLY INTENDED BY THE OWNER

AJ701.1 Additional Safety Compliance. Existing buildings shall additionally comply with the minimum provisions specified in Table(s) referenced in AJ701 and as further enumerated by the category of work in this chapter. These referenced table(s) shall be modified from time to time as deemed necessary by the Building Official and shall be conspicuously published on the City Web page and available at the divisional offices.

Exceptions:

1. Items deemed imminently dangerous by the code official shall be remedied as required.
2. The provisions of this chapter shall not be construed to allow the elimination of safety systems or a reduction in the level of safety provided in buildings constructed in accordance with the previously adopted codes.
3. These limitation provisions shall not apply to an Addition to an existing building but may be applicable to the associated remodeling in the existing structure.

AJ701.1.1 Referenced Table(s). Refer to the City of Aurora Web Page posting or Handout entitled "GUIDELINES OF ADDITIONAL COMPLIANCE FOR EXISTING BUILDINGS IN PROPORTION TO THE EXTENT OF THE INITIALLY INTENDED WORK".

NOTE:

FOLLOWING PAGES REPRESENT A CURRENT VERSION OF

"GUIDELINES OF ADDITIONAL COMPLIANCE FOR EXISTING BUILDINGS IN PROPORTION TO THE EXTENT OF THE INITIALLY INTENDED WORK"

GUIDELINES OF ADDITIONAL COMPLIANCE FOR EXISTING BUILDINGS IN PROPORTION TO THE EXTENT OF THE INITIALLY INTENDED WORK

NOTE: The initially intended work must meet the IRC and/or Appendix J requirements this table defines the balance of requirements for the structure.

IRC Chap#	LEGEND		Level		
			Level 01 – Renovation	Level 02 – Alteration / Reconfiguration	Level 03 – Reconstruction/ Extensive Alteration
	R =	Required regardless of location relationship to the area of work.			
	A =	Required in area of work; and when in wall or in ceiling cavity immediately adjacent and exposed by the opening of a wall or ceiling cavity in the area of work; and exposed in an unfinished space; or accessed in order to perform the desired work.			
	W =	Required when in the area of work.			
	E =	Required when exposed in the area of work.			
	NR =	Not Required.			
App. J	102.3	Retroactive Smoke detection requirements			
		Repair			
		Level 01 Renovation – min DC units in the area of work if required by IRC R314.3.1	R		
		Level 02 Alteration/Reconfiguration min AC/DC Radio Frequency interconnecting bridge unit in the area of work or elsewhere in home and upgrade of Radio Frequency battery units in home at locations indicated by IRC R314.3.1		R	
		Level 03 Reconstruction or extensive alterations - AC/DC Hardwired Interconnected per IRC R314.3.1			R
Chp. 34-41 ELECT	E3404	General Requirements			
E34 General Requirements	E3404	General Equipment Requirements			
		E3404.6 Unused Openings	R	R	R
		E3404.7 Integrity of electrical equipment	R	R	R
		E3404.8 Mounting	R	R	R
		E3404.9 Energized parts guarded against contact	R	R	R
		E3404.10 Prevent physical damage	R	R	R
		E3404.11 Equipment Identification	NR	R	R
		E3404.12 Identification of disconnecting means	NR	R	R
	E3405	Equipment Locations and Clearances			

GUIDELINES OF ADDITIONAL COMPLIANCE FOR EXISTING BUILDINGS IN PROPORTION TO THE EXTENT OF THE INITIALLY INTENDED WORK

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E36 Services	E3405.1 Working space and clearances	NR	W	W	
	E3405.2 Working clearances for energized equipment and panelboards	NR	W	W	
	E3405.3 Dedicated panelboard space	NR	W	W	
	E3405.4 Location of working space and equipment	NR	W	W	
	E3405.5 Access to working space	NR	W	W	
	E3405.6 Illumination at working space	NR	W	W	
	E3406 Electrical Conductors and Connections				
	E3406.5 Minimum Size of Conductor	E	E	R	
	E3406.6 Conductors in Parallel	E	E	R	
	E3406.7 Conductors on the same circuit	E	E	R	
	E3406.8 Aluminum and copper connections	E	E	R	
	E3406.10 Terminals	E	E	R	
	E3406.11 Splices	E	E	R	
	E3406.12 Grounded conductor continuity	E	E	R	
	E3407 Conductor and Terminal Identification				
	E3407.1 Grounded Conductors	E	E	R	
	E3407.2 Equipment grounding conductors	E	E	R	
	E3407.3 Ungrounded conductors	E	E	R	
	E3407.4 Identification of terminals	E	E	R	
	E3601 General Services				

GUIDELINES OF ADDITIONAL COMPLIANCE FOR EXISTING BUILDINGS IN PROPORTION TO THE EXTENT OF THE INITIALLY INTENDED WORK

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	E3601.2 Number of Services	NR	A	R
	E3601.3 One Building not supplied through another	NR	A	R
	E3601.4 Other conductors in raceway	NR	A	R
	E3601.5 Raceway seal	NR	A	R
	E3601.6 Service disconnect required	NR	A	R
	E3601.7 Maximum number of disconnects	NR	A	R
E3602 Service Size and Rating				
	E3602.1 Ampacity of ungrounded conductors	E	R	R
	E3602.2 Service Load	E	R	R
	E3602.3 Rating of service disconnect	E	R	R
	E3602.4 Voltage rating	E	R	R
E3603 Service, Feeder and Grounding Electrode Conductor Sizing				
	E3603.1 Grounded and ungrounded service conductor	NR	A	R
	E3603.2 Ungrounded service conductors for accessory	NR	A	R
	E3603.3 Overload protection	NR	A	R
	E3603.4 Grounding electrode conductor size	NR	A	R
E3604 Overhead Services and Service-entrance Conductor Installations				
	E3604.1 Clearances on Buildings	R	R	R
	E3604.2 Vertical Clearances	R	R	R
	E3604.3 Point of attachment	R	R	R

GUIDELINES OF ADDITIONAL COMPLIANCE FOR EXISTING BUILDINGS IN PROPORTION TO THE EXTENT OF THE INITIALLY INTENDED WORK

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	E3604.4 Means of attachment	R	R	R
	E3604.5 Service Masts as supports	R	R	R
	E3604.6 Supports over buildings	R	R	R
	E3605 Service-Entrance Conductors			
	E3605.1 Insulation of service-entrance conductors	R	R	R
	E3605.2 Wiring methods of service	R	R	R
	E3605.3 Spliced Conductors	R	R	R
	E3605.4 Protection of underground service entrance	R	R	R
	E3605.5 Protection of all other service cables	R	R	R
	E3605.6 Locations exposed to direct sunlight	R	R	R
	E3605.7 Mounting supports	R	R	R
	E3605.8 Raceways to drain	R	R	R
	E3605.9 Overhead service locations	R	R	R
	E3606 Service Equipment – General			
	E3606.1 Service Equipment enclosures	R	R	R
	E3606.2 Working space	NR	W	W
	E3606.4 Marking	NR	R	R
	E3607 System Grounding			
	E3607.1 System service ground	R	R	R
	E3607.2 Location of grounding electrode conductor	R	R	R

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	E3607.3 Buildings or structures supplied by feeders or branch circuits (det garage)	R	R	R
	E3607.4 Grounding Electrode conductor	R	R	R
	E3607.5 Main Bonding Jumper	R	R	R
	E3607.6 Common grounding electrode	R	R	R
	E3608 Grounding Electrode System			
	E3608.1 Grounding electrode system	R	R	R
	E3608.2 Bonding Jumper	R	R	R
	E3608.3 Rod, Pipe and plate electrode requirements	R	R	R
	E3608.4 Supplemental electrode required	R	R	R
	E3608.5 Aluminum electrodes	R	R	R
	E3608.6 Metal underground gas piping system	R	R	R
	E3609 Bonding			
	E3609.2 Bonding of equipment of services	A	R	R
	E3609.3 Bonding for other systems	A	R	R
	E3609.4 Method of bonding at the service	A	R	R
	E3609.5 Sizing supply-side bonding jumper and main bonding jumper	A	R	R
	E3609.6 Metal water piping bond	A	R	R
	E3609.7 Bonding other metal piping	A	R	R
	E3610 Grounding Electrode Conductor			

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	E3610.1 Continuous	A	R	R	
	E3610.2 Securing against damage	A	R	R	
	E3610.3 Enclosures for grounding electrode conductors	A	R	R	
	E3610.4 Prohibited use	A	R	R	
E3611	Grounding Electrode Conductor Connection to the Grounding Electrodes				
	E3611.1 Method of grounding conductor connection to electrodes	A	R	R	
	E3611.2 Accessibility	A	R	R	
	E3611.3 Effective grounding path	A	R	R	
	E3611.4 Interior metal water piping	A	R	R	
	E3611.5 Protection of ground clamp and fitting	A	R	R	
	E3611.6 Clean surfaces	A	R	R	
E37 Branch Circuit and Feeder Requirements	E3701 General				
	E3701.2 Branch-circuit and feeder ampacity	NR	A	R	
	E3702 Branch Circuit Ratings				
	E3702.1 Branch-circuit voltage limitations	A	W	R	
	E3702.2 Branch-circuit ampere rating	A	W	R	
	E3702.3 15-20 amp branch circuits	A	W	R	
	E3702.4 30 amp branch circuits	A	W	R	
E3702.5 Branch Circuits serving multiple loads or outlets	A	W	R		

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	E3702.6 Branch Circuits serving a single motor	A	W	R
	E3702.7 Branch Circuits serving motor-operated and combination loads	A	W	R
	E3702.8 Branch-circuit inductive and LED lighting loads	A	W	R
	E3702.9 Branch-circuit load for ranges and cooking appliances.	A	W	R
	E3702.10 Branch circuits serving heating loads	A	W	R
	E3702.11 Branch circuits for air-conditioning and heat pump equipment	A	W	R
	E3702.12 Branch circuits serving room air conditioners	A	W	R
	E3702.13 Branch-circuit requirement-summary	A	W	R
	E3703 Required Branch Circuits			
	E3703.1 Branch circuits for heating	A	W	R
	E3703.2 Kitchen and dining area receptacles	A	W	R
	E3703.3 Laundry circuit	A	W	R
	E3703.4 Bathroom branch circuits	A	W	R
	E3703.5 Number of branch circuits	A	W	R
	E3703.6 Branch-circuit load proportioning	A	W	R
	E3704 Feeder Requirements			
	E3704.1 Conductor size	A	W	R
	E3704.2 Feeder loads	A	W	R
	E3704.3 Feeder neutral load	A	W	R

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	E3704.4 Lighting and general use receptacle load	A	W	R
	E3704.5 Ampacity and calculated loads	A	W	R
	E3704.6 Equipment grounding conductor	A	W	R
	E3705 Conductor Sizing and Overcurrent Protection			
	E3705.1 General – Allowable Ampacities	A	W	R
	E3705.5 Overcurrent protection required	A	W	R
	E3705.6 Fuses and fixed trip circuit breakers	A	W	R
	E3705.7 Location of overcurrent devices in or on premises	A	W	R
	E3705.8 Ready access for occupants	A	W	R
	E3705.9 Enclosures for overcurrent devices	A	W	R
	E3706 Panelboards			
	E3706.1 Panelboard rating	A	W	R
	E3706.2 Panelboard circuit identification	A	W	R
	E3706.3 Panelboard overcurrent protection	A	W	R
	E3706.4 Grounded conductor terminations	A	W	R
	E3706.5 Back-fed devices	A	W	R
E38 Wiring Methods	E3801 General Requirements			
	E3801.2 Allowable wiring methods [EXISTING STRUCTURES COLUMN]	A	W	R
	E3802 Above-ground Installation Requirements			
	E3802.2 Cables in accessible attics	A	W	R

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	E3802.3 Exposed cables	A	W	R
	E3802.4 In unfinished basements and crawlspaces	A	W	R
	E3802.5 Bends	A	W	R
	E3802.6 Raceways exposed to different temperatures	A	W	R
	E3802.7 Raceways in wet locations above grade	A	W	R
	E3803 Underground Installation Requirements			
	E3803.1 Minimum cover requirements	A	W	R
	E3803.2 Warning ribbon	A	W	R
	E3803.3 Protection from damage	A	W	R
	E3803.4 Splices and Taps	A	W	R
	E3803.5 Backfill	A	W	R
	E3803.6 Raceway seal	A	W	R
	E3803.7 Bushing	A	W	R
	E3803.8 Single conductor	A	W	R
	E3803.9 Ground Movement	A	W	R
	E3803.10 Wet locations	A	W	R
	E3803.11 Under Buildings	A	W	R
E39 Power and Lighting Distribution	E3901 Power and Lighting Distribution			
	E3901.2 Receptacle Spacing	E	A	R
	E3901.3 Small Appliance Receptacles	E	A	R

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	E3901.4 Countertop Receptacles	E	A	R
	E3901.5 Large Appliance Receptacles	E	A	R
	E3901.6 Bathroom Receptacles	E	A	R
	E3901.7 Outdoor Outlets	E	A	R
	E3901.8 Laundry Areas	E	A	R
	E3901.9 Basements, Garages, and Accessory	E	A	R
	E3901.10 Hallways	E	A	R
	E3901.11 Foyers	E	A	R
	E3901.12 HVAC Outlet	E	A	R
E3902 Ground-fault and Arc-fault Circuit-interrupter Protection				
	E3902.1 Bathroom Receptacles	A	A	R
	E3902.2 Garage and Accessory Buildings	A	A	R
	E3902.3 Outdoor Receptacles	A	A	R
	E3902.4 Crawl Space Receptacles	A	A	R
	E3902.5 Unfinished Basement Receptacles	A	A	R
	E3902.6 Kitchen Receptacles	A	A	R
	E3902.7 Sink Receptacles	A	A	R
	E3902.12 Arc-fault Circuit-interrupter Protection	A	A	R
E3903 Lighting Outlets				
	E3903.2 Habitable Rooms	E	A	R

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	E3903.3 Additional Locations	E	A	R
	E3903.4 Storage or Equipment Spaces	E	A	R
	E3904 General Installation Requirements			
	E3904.1 Electrical Continuity	A	R	R
	E3904.2 Mechanical Continuity	A	R	R
	E3904.4 Securing and Supporting	A	R	R
	E3904.5 Raceway Installation	A	R	R
	E3904.6 Conduit and Tubing Fill	A	R	R
	E3905 Boxes, Conduit Bodies and Fittings			
	E3905.1 Box, Conduit body or fitting	A	R	R
	E3905.6 Boxes at luminaire outlets	A	R	R
	E3905.7 Floor Boxes	A	R	R
	E3905.8 Boxes at Fan Outlets	A	R	R
	E3905.9 Utilization Equipment	A	R	R
	E3905.10 Conduit bodies, and junction, pull and outlet box accessibility	A	R	R
	E3905.11 Damp or Wet Locations	A	R	R
	E3905.12 Number of Conductors in boxes	A	R	R
	E3906 Installation of Boxes, Conduit and Fittings			
	E3906.1 Conductor protection	W	A	R
	E3906.2 Openings	R	R	R

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	E3906.3 Metal Boxes and Conduit Bodies	R	R	R
	E3906.4 Unused Openings	R	R	R
	E3906.5 In Wall or Ceiling	W	A	R
	E3906.6 Noncombustible Surfaces	W	A	R
	E3906.7 Surface Extensions	W	A	R
	E3906.8 Supports	W	A	R
	E3906.9 Covers and canopies	W	A	R
	E3906.10 Metal covers and plates	W	A	R
	E3907 Cabinets and Panelboards			
	E3907.1 Switch and overcurrent device enclosures with splices, taps, and feed-through conductors.	A	R	R
	E3907.2 Damp and wet locations	A	R	R
	E3907.3 Position in wall	A	R	R
	E3907.4 Repairing noncombustible surfaces	A	R	R
	E3907.5 Unused openings	A	R	R
	E3907.6 Conductors entering cabinets	A	R	R
	E3907.8 Cables	A	R	R
	E3908 Grounding			
	E3908.1 Metal enclosures	W	A	R
	E3908.2 Fixed Equipment	W	A	R

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	E3908.3 Specific Fixed Equipment	W	A	R
	E3908.4 Effective Ground-fault path	W	A	R
	E3908.6 Load-side grounded conductor neutral	W	A	R
	E3908.7 Load-side equipment	W	A	R
	E3908.8 Types of equipment grounding conductors	W	A	R
	E3908.9 Equipment fastened in place	W	A	R
	E3908.10 Methods of Equipment Grounding	W	A	R
	E3908.11 Equipment grounding conductor insulation	W	A	R
	E3908.12 Equipment grounding conductor size	W	A	R
	E3908.13 Continuity	W	A	R
	E3908.14 Connecting receptacle ground	W	A	R
	E3908.15 Metal boxes	W	A	R
	E3908.16 Nonmetallic boxes	W	A	R
	E3908.17 Clean Surfaces	W	A	R
	E3908.18 Bonding other enclosures	W	A	R
	E3908.19 Size of Equipment bonding jumper	W	A	R
	E3908.20 Installation equipment bonding jumper	W	A	R
	E3909 Flexible Cords			
	E3909.1 Where permitted	R	R	R
	E3909.2 Loading and protection	R	R	R

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	E3909.3 Splices	R	R	R
	E3909.4 Attachment Plug	R	R	R
E40 Devices and Luminaires	E4001 Switches			
	E4001.1 Rating and application	W	A	R
	E4001.7 Damp or wet locations	W	A	R
	E4002 Receptacles			
	E4002.1 Rating and type	W	A	R
	E4002.8 Damp locations	W	A	R
	E4002.9 Wet locations	W	A	R
	E4002.10 Other wet locations	W	A	R
	E4002.11 Bathtubs and Showers	W	A	R
	E4002.13 Exposed Terminals	R	R	R
	E4002.14 Tamper-resistant receptacles	E	E	R
	E4003 Fixtures			
	E4003.1 Energized parts exposed	R	R	R
	E4003.3 Screw-shell type	W	A	R
	E4003.9 Wet or Damp locations	W	A	R
	E4004.10 Lampholders in wet or damp locations	W	A	R
	E4003.11 Bathtub and Shower area	W	A	R
E4003.12 Luminaires in clothes closets	W	A	R	

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	E4004 Luminaire Installation			
	E4004.3 Access	W	A	R
	E4005 Track Lighting			
	E4005.1 Installation	W	A	R
	E4005.2 Fittings	W	A	R
	E4005.3 Connected load	W	A	R
	E4005.4 Prohibited locations	W	A	R
	E4005.5 Fastening	W	A	R
	E4005.6 Grounding	W	A	R
E41 Appliance Installation	E4101 General Appliance Installation			
	E4101.1 Appliances and Fixed heating equipment	W	A	R
	E4101.2 Installation	W	A	R
	E4101.3 Flexible cords	W	A	R
	E4101.4 Overcurrent protection	W	A	R
	E4101.5 Disconnecting Means	W	A	R
	E4101.6 Support of Ceiling Fans	W	A	R
E4101.7 Snow Melting and Deicing Equipment	W	A	R	