

**Contractor License Board
Investigative Committee of the Rules Committee
February 14, 2020**

Proposed Amendments to
Hawaii Administrative Rules Chapter 16-77

Specialty Contractor Classifications Rule Package

Move forward with the proposed amendments to "Other Specialty Classifications" in the Board's 2014 report to the Legislature in response to S.C.R. No. 84, S.D. 1 (SLH 2013) with the following additional amendments:

- C-1 Acoustical and insulation contractor.** To install interior or exterior acoustic tile systems, spray systems, fire ~~safing~~, firestopping, and insulation in buildings and structures for ~~[the purpose of]~~ sound control[.] and other purposes. These systems or materials may be installed independently of or in conjunction with acoustic tile and/or drywall systems as multipurpose (acoustic, insulation, fire retardant) systems;
- C-2 Mechanical insulation contractor.** To install insulation materials on mechanical systems for the purpose of temperature control and to install related firestopping;
- A **C-3 Asphalt paving and surfacing contractor.** To proportion, mix, and place base materials; and to place paving and surfacing consisting of graded mineral aggregates bonded with asphalt or bituminous materials so that a firm, smooth surface suitable for roadways, runways, driveways, parking areas, and play areas is obtained, including the application of seal coating and parking lot or highway striping;
- C-3a Asphalt concrete patching, sealing, and striping contractor.** To patch asphalt roadways, runways, driveways and parking areas so that a suitable surface is obtained; to seal coat surfaces, to paint parking stripes, highway stripes, or playcourt lines, ~~[and]~~ to install epoxy buttons or white dome dividers on highways;
- C-3b ~~[Play-court]~~ Recreational surfacing contractor.** To prepare or install existing or new surfaces[.]; including for play court, playground fall zone, and track surfaces; to install materials or apply top or seal coating so that a level, suitable play court surface is obtained; and to paint ~~[playcourt] play-court~~ recreational lines;
- C-4 Boiler, hot-water heating, hot water supply, and steam fitting**

contractor. To install and repair fire-tube and water-tube power boilers, pressure valves, packaged boiler systems, hot-water heating and hot water supply boilers, and thermal fluid systems; including all fitting and piping, valves, gauges, pumps, radiators, convectors, fuel oil tanks, fuel oil lines, hazardous waste storage tanks, ~~[chimneys]~~ smokestacks, flues, heat insulation, and all other devices, apparatus, and equipment appurtenant thereto, including the insulation of pipes in connection with the boiler installation or repair, and installation of hydromatic radiant heating systems (warm floor) provided these are connected to a boiler;

~~[C-68RH]~~ C-4a Refinery, industrial plant, and power plant repair and

maintenance [and resource equipment] — Repair and installation of ~~refinery process equipment and piping, and resource recovery equipment.]~~

To maintain, repair or replace-in-kind [the] existing refinery process equipment, piping and resource recovery equipment; provided that this shall not include cutting or welding of structures or piping or any additions or alterations of equipment foundation; (formerly C-68RH)

- B C-5 **Cabinet, millwork, and carpentry remodeling and repairs contractor.** To install cabinets, cases, sashes, doors, trims, ~~[or]~~ window shutters, garage doors, bifold and shutter doors, nail[-]on or screw[-]attached prefabricated flanged window and door systems, manufactured siding and nonbearing partitions; [that become a permanent part of structure, and to remodel or to make] and to perform carpentry remodeling and repairs. [to existing buildings or structures, or both; and to do any other work which would be incidental and supplemental to the remodeling or repairing. The repairs, carpentry work, or remodeling shall include the installation of window shutters, garage doors, bifold, and shutter doors;; and the installation of manufactured sidings and any other work that would not involve] Work shall not include changes or additions to the building's or structure's basic components such as, but not limited to, foundations, beams, rafters, joists, or any load bearing members or sections;

C-5a Residential cabinet, millwork, and carpentry remodeling and repairs contractor. To perform all remodeling and repairs on residential projects

including multi-family or multi-unit structures provided that the work is limited to a single residence or unit and shall not include work on new tract home construction. Work shall not include changes or additions to the building's or structure's basic components such as, but not limited to, foundations, beams, rafters, joists, or any load bearing members or sections; and electrical, plumbing, ventilating and air conditioning, boiler, elevator, and asbestos abatement work;

C-5[a] **b Garage door and window shutters contractor.** To install overhead, mechanical and sliding garage doors, including installation of window shutters which involves similar installation methods;

C-5[b] c Siding application contractor. To prepare surfaces and install aluminum vinyl or other manufactured siding~~[, with the exception of wood,]~~ so that a watertight surface is obtained;

B **C-6 Carpentry framing contractor.** To do wood and ~~[light gauge, cold-formed]~~ metal framing, siding, ~~[wood truss,]~~ trusses, roof sheathing, and other work as is by custom and usage accepted in the construction industry as carpentry framing;

C-7 **Carpet laying contractor.** To apply or install acceptable fabric floor coverings, artificial turf, or other prefabricated materials to hard surfaces within a building structure and its related building surfaces. This classification does not include the work of the C-3b play court surfacing contractor and C-28 synthetic field surface contractor;

A **C-9 [Cesspool] Septic [tank] system contractor.** To excavate and install ~~[cesspools and]~~ cesspools and septic tanks, packaged sewage treatment systems, leach fields, and seepage pits, and related piping, in compliance with the requirements of the department of health;

C-9a Cesspool contractor. To excavate and install cesspools ~~[and septic tanks]~~ in compliance with the requirements of the department of health;

A, B **C-10 Scaffolding contractor.** To erect or dismantle scaffolds only. The other

contractor classifications may automatically perform this type of work in connection with their classifications;

A, B **[C-68FP] C-11 Fall protection system contractor.** To fabricate, assemble, install, repair, recondition, replace, inspect and test permanent personal fall arrest systems including, but not limited to, single point anchors, horizontal lifelines, rigid rail fall arrest, and ladder safety devices. The other contractor classifications may automatically perform this type of work in connection with their classifications; **(formerly C-68FP)**

B **C-12 Drywall and ceilings contractor.** To layout and install nonstructural metal studs, channel and joist framing systems, and all types of gypsum wallboard systems, including the taping and texturing operations incidental thereto. Also included is the installation of thermal batt insulation and suspended acoustical ceiling systems and the application of ~~[spray-on]~~ acoustical, thermal and fire barriers which ~~[would be incidental]~~ are related to the installation of ~~[wallboard;]~~ wallboards;

C-13 Electrical contractor. To place, install, ~~[erect,]~~ or connect any electrical conduit, raceways, electrical wires, fixtures, ~~[appliances,]~~ apparatus, battery systems, equipment and appliances; to erect poles; install electrical signs[,]; ~~[conduits, poles, raceways,]~~ and to do trenching, backfilling, patching, and surface restoration in connection with the installation of ~~[conduits]~~ conduit and ~~[lines]~~ wiring which transmit, transform, or utilize electrical energy ~~[less than]~~ 600 volts or less phase to phase and to install related firestopping. This classification also includes the work of the C-15 electronic systems contractor and C-60 solar power systems contractor;

C-13a Cathodic protection contractor. "To install cathodes to control corrosion of a metal surface; provided that this shall not include the installation of any conduit, electrical wiring, or electrical connections for power wiring. This does not include galvanic or sacrificial cathodic protection systems without a testing station; (formerly C-68 CC)

A, B C-14 **Sign contractor.** To fabricate or to install electrical or ~~[nonelectrical]~~ non-electrical signs and sign devices for the purpose of display, advertising, or directions[;] and to install all sign supports and sign accessories; provided that this shall not include the installation of any conduit, electrical wiring, or electrical connections;

C-15 **Electronic systems contractor.** To install electronic equipment and electronic controls, ~~[including]~~ which shall include but is not limited to, public address, intercommunication, master antenna, ~~[and]~~ music distribution systems, CATV systems, master and program clock systems, electronic teaching devices, ~~[and other systems including electric]~~ electronic door opening devices, telecommunications, audiovisual, security systems and fire ~~[and burglar]~~ alarm systems[;], including all associated apparatus, equipment, devices, cabling, chase or low voltage wiring and connections and to install related firestopping; provided that this shall not include the installation of any ~~[conduits thereto;]~~ conduit, electrical wiring, or electrical connections for power wiring;

C-15a **Fire ~~[and burglar]~~ alarm contractor.** To install, maintain, and repair ~~[central]~~ fire ~~[and burglar]~~ alarm systems[;] including all associated apparatus, equipment, devices, cabling, chase or low voltage wiring and connections and to install related firestopping; provided that this shall not include the installation of any ~~[conduits thereto;]~~ conduit, electrical wiring, or electrical connections for power wiring;

C-15b **Telecommunications contractor.** To install, maintain, and repair telephone, computer, ~~[and]~~ data, music, CATV, ~~[closed circuit television,]~~ and satellite systems; including ~~[the]~~ all associated apparatus, equipment, devices, cabling, chase, low voltage wiring[,] and connections, or fiber optics

and to install related firestopping; provided that this shall not include the installation of any [~~conduits thereto;~~] conduit, electrical wiring, or electrical connections for power wiring;

C-15c Security systems contractor. To install, maintain, and repair CCTV and security systems; including all associated apparatus, equipment, devices, cabling, chase or low voltage wiring and connections and to install related firestopping; provided that this shall not include the installation of any conduit, electrical wiring, or electrical connections for power wiring;

C-15d Audiovisual contractor. To install and maintain audio, video, video conferencing and data projection equipment; including all associated apparatus, equipment, devices, cabling, chase or low voltage wiring and to install related firestopping; provided that this shall not include the installation of any conduit, electrical wiring, or electrical connections for power wiring;
(formerly C-68AL)

C-16 Elevator contractor. To assemble and install and maintain sheave beams, motors, sheaves, cable and wire rope, guides, cab, counterweight, door assemblies, hydraulic systems, automatic and manual control systems, signal systems, and all other devices, apparatus, and equipment for the safe and efficient installation and operation of electrical, hydraulic, and manually operated elevators, dumb waiters, moving walks or ramps, conveyor systems, stage lifts, escalators, and man lifts excluding any lift or conveyor used in constructing a building or structure. To make or oversee alterations within the cab of the elevator which require a permit from the department of labor and industrial relations;

C-16a Conveyor systems contractor. To install belt line conveyor systems including installation of baggage carousels;

A **C-17 Excavating, grading, and trenching contractor.** To dig, move, and place earthen material for a cut, fill, grade, or trench, including the use of explosives in connection therewith;

A C-18 [~~Horizontal drilling and micro~~] Micro tunneling and horizontal drilling contractor. To install piped utilities by using micro tunneling methods and horizontal drilling. (formerly C-68HD)

C-18a Micro tunneling contractor. To install piped utilities by micro tunneling methods and including the excavation, backfilling, concrete, jet grouting and any related piping installed in the micro tunneling process; provided that it shall not include any final connections; (formerly C-68HD)

C-18b Horizontal drilling contractor. To bore, drill, excavate, case and grout, and any related piping; provided that it shall not include any final connections; (formerly C-68HD)

C-19 Asbestos contractor. To engage in any activity involving the application, enclosure, removal, encapsulation, renovation, repair, demolition, or other disturbances of asbestos or asbestos-containing material that may become friable;

C-20 Fire protection contractor. To lay out and install approved types of fire prevention and protective systems, including all mechanical apparatus, devices, piping, and equipment appurtenant thereto and to install related firestopping. The licensee shall comply with applicable provisions of the National Board of Fire Underwriters (NBFU) standards to meet all requirements of the local authorities having jurisdiction;

C-20a Fire repressant systems contractor. To install tanks, piping, sprinkler heads, dry chemical systems, CO2 systems, and halon systems related to fire repressant systems and to install related firestopping;

C-21 Flooring contractor. To apply or install floor covering material such as linoleum, rubber, vinyl, cork, asphalt, plastic aluminates, rubber granules to create a floor surface or other materials that are by custom and usage accepted in the construction industry as composition flooring; including the

installation of wood floor covering and ~~[also to include floor]~~ related sanding and refinishing of floor surfaces. ~~[This also includes the use of rubber granules to create a floor covering or surface];~~

C-21a Engineered wood and laminate flooring contractor. To install, replace, or repair prefinished engineered wood and laminate flooring, including related underlayment and trim;

C-22 Glazing and tinting contractor. To glaze ~~[or tint]~~ frames, panels, sash, railings, and doors including any associated tinting. To assemble and install window wall and curtain wall, shower doors, tub enclosures, mirrors, ~~[metal]~~ windows and screens, ~~[metal]~~ sliding doors, ~~[metal]~~ jalousies, store front metal and trim, plastics, tempered glass doors; including items such as frames and hardware and any allied products not stated above but affiliated with the glass and glazing industry;

C-22a Glass tinting contractor. To apply any material or combination of materials to surfaces described in the C-22 classification above, to provide a decorative or protective shield, or a tinting shield from natural or artificial light;

~~**[C-23 [Gunitite] Shotcrete and gunitite contractor.** To pneumatically apply aggregates, cement, and water as shotcrete or gunitite and finish the surface; including the setting of ground wires and pencil rods to establish the finished surface planes;]~~ **Newly established C-31g**

A,B **C-24 Building moving and wrecking contractor.** To move, post, anchor, or demolish structures including removal of debris and to dismantle or free specific portions of a structure in order that it can be raised and moved. Posting shall be limited to placing a structure in position on a property only, and renovations shall not be included;

B **C-25 Institutional and commercial equipment contractor.** To install industrial instrumentation including, but not limited to, pneumatic instrumentation systems, laboratory equipment, lockers, and food services equipment, folding and sliding partitions, folding bleachers, stationary metal partitions, racking systems using strut material for equipment and piping, raised floor systems, prefabricated systems using metal chutes, ~~[incinerator,]~~ incinerators, stages and rigging of stage curtains and racks, recreational equipment, jail and prison equipment, and related locking

devices or control systems, and other equipment and materials as are by custom and usage accepted in the construction industry as institutional and commercial equipment work; and to install factory built stoves, fireplaces, and prefabricated steel chimneys;

C-27 Landscaping contractor. To prepare plots of land for architectural horticulture and to provide tree trimming, decorative treatment and arrangement of gardens, lawns, shrubs, vines, bushes, trees, and other decorative vegetation; construct conservatories, hot and green houses, drainage and sprinkler systems, all types of rockscaping and ornamental pools, fountains, ornamental walls, fences, and walks; ~~and~~ placement of hydro mulching for ground cover and for containment of soil[-]; and the installation of synthetic turf for landscaping purposes. This also includes the installation of irrigation control or decorative lamp electrical wiring associated with the above that will carry 24 volts or less;

C-27a Hydro mulching contractor. To place hydro mulch material as a bed for ground cover and for containment of soil;

C-27b Tree trimming and removal contractor. To prune, trim, and remove trees, including stumps, and restore ground to condition similar to adjacent area; provided that this does not include the relocation and planting of field grown trees;

C-28 Synthetic field surface contractor. To apply and install synthetic turf over a prepared base for a playfield, play court, recreation area, or landscaped area; to construct the required subgrade and install drainage; to join seams and inlay by sewing, gluing, stapling, or other methods; and to infill and test fields to meet required industry safety standards;
(formerly C-68FF)

A C-29 Rockfall mitigation contractor. To remove or secure rock from movement by use of concrete, shotcrete, boulder fence, cable, matting, slope stabilization methods and other barrier or anchoring systems related to rockfall mitigation. Matting may include metal mesh, chain link fabric or cable mesh;
(formerly C-68RL)

A C-30 Power station cooling tower contractor. To demolish, remove, repair, replace, or install various sized power station cooling towers for process cooling

only in refineries[,] and power plant [and food processing] [and manufacturing] facilities. The work includes pre-fabricated, pre-manufactured, and field-erected towers; [with the exception of] provided that this shall not include any electrical, plumbing, [processed] piping, civil and structural foundation construction;
(formerly C-68TP)

C-31 [Masonry] Cement and masonry contractor. To lay brick and other baked clay products, rough or cast stone, marble, granite, or any decorative plaster, cut and dressed stone, artificial stone and brick veneer, CMU, and structural glass, brick or block, laid with or without mortar or adhesives, manufactured precast concrete facing and back-up panels and brick or block panel[:], shotcrete and gunite; installation of fire clay products and refractories; installation of concrete fencing; installation of grout, rubble work, caulking, tuckpointing, sandblasting, mortar, cement washing, and cleaning related to masonry construction; to place, [and] finish and polish cement concrete; to drill, saw, and core concrete; [and] to do epoxy injection in concrete for structural purposes; and to stabilize and level concrete;

A, B **C-31a Cement concrete contractor.** To mix aggregates, cement, and water in order to make acceptable concrete; to place, [and] finish and polish concrete including the setting of screeds and forms; to install precast concrete; to do tuckpointing and caulking of concrete block, precast concrete, and [pre-cast] precast stone; to caulk metal to concrete and masonry; to cut, drill, saw, core, and [pressure] grout concrete; to do sandblasting, waterblasting, cleaning, sealing, and epoxy injection of concrete; [and] to mudjack or install polymers to stabilize and level concrete; to apply shotcrete and gunite; and to perform spall repair;

C-31b Stone masonry contractor. To construct ornamental walls, veneer walls, and structural walls or columns from marble, granite, or any decorative plaster, stone, artificial stone, rough or cast stone, or veneer stone; to lay stone in a manner that an acceptable paved surface is obtained; and to construct stone retaining walls with or without mortar, in conformance with building code requirements;

C-31c Refractory contractor. To set or install high temperature fire clay and refractory products or equipment;

C-31d Tuckpointing and caulking contractor. To do tuckpointing, caulking, and sealing of concrete block and pre-cast stone; to caulk metal to concrete and masonry; and to perform spall repair;

C-31e Concrete cutting, drilling, sawing, coring, and [pressure] grouting contractor. To cut, drill, saw, core, and [pressure] grout concrete;

C-31f Composite strengthening contractor. Installation of fiber reinforcement polymers for structural and seismic strengthening; (formerly C-68CS)

[C-23] C-31g [Gunite] Shotcrete and gunite contractor. To pneumatically apply aggregates, cement, and water as shotcrete or gunite and finish the surface; including the setting of ground wires and pencil rods to establish the finished surface planes;

A **C-32 Ornamental, guardrail, and fencing contractor.** Installation of all types of structural and nonstructural units [~~for residential, commercial, and industrial construction~~], both interior and exterior including, but not limited to, folding gates, guardrails, handrails, stairs, fencing and gates, window shutters and grills, roll up shades, non-electrical signs, room dividers and shields, accessories, railings, and traffic safety devices;

B **C-32a Wood [and], vinyl, and aluminum fencing contractor.** To install, maintain, or repair wood [~~or~~], vinyl, or aluminum fencing;

C-33 Painting and decorating contractor. To apply materials common to the painting and decorating industry for protective and decorative purposes, including highway and parking striping and painting of playcourt lines, by the use of, but not limited to, emulsions, waxes, water repellants, epoxes, polyesters, urethane, liquid-glass, fibrous, cement, and rubber base coatings. Surface preparations of all types, caulking, sandblasting, waterblasting, power cleaning, or steam cleaning preparatory to painting provided that this classification shall not include **spall repair involving concrete or rebar** [the work of the C-31 masonry contractor, C-31d tuckpointing and caulking contractor, and C-41 reinforcing steel contractor]. Installation of wall surface covering,

decorative texturing, taping, and finishing of drywall. This also includes the application of sealants in connection with the above;

C-33a Wall coverings contractor. To prepare surfaces and install wall covering materials such as vinyls, wallpapers, wood veneer, cloth fabric, and fibrous type coverings;

C-33b Taping contractor. To fill and tape joints and indentations in wallboard so that a smooth surface is obtained to serve as a base for future finishes;

C-33c Surface treatment contractor. To treat surfaces by using, but not limited to, sandblasting, waterblasting, power cleaning, or steam cleaning. This also includes the application of sealants in connection with the above; [provided that this shall not include spall repair];

A C-34 Soil stabilization contractor. To stabilize earth through the use of cement and/or chemical pressure grouting; and to install anchors, tiebacks, soil nails or other systems to stabilize or reinforce walls from earth pressures;

A C-35 Pile driving, pile and caisson drilling, and foundation contractor. To drill holes for pilings and caissons and to drive piles and set caissons including cutting piles and capping same. To compact earth for foundations by vibrafloater or similar systems;

C-35a Foundation stabilization contractor. To install helical piles, push piers, micropiles or other systems for foundation stabilization;

C-36 Plastering contractor. To apply gypsum [plaster], synthetic, cement, and acoustical plaster or any combination of materials common to the plastering industry to any surface which offers either a mechanical or suction type bond by spray or trowel; to apply lath or any other material that will provide a bond for the plaster including spray on, multipurpose, acoustic, insulation, and fire retardant systems; and to apply cementitious fire proofing systems;

C-36a Lathing contractor. To apply wood and metal lath, or any other materials which provide a key or suction base for the support of plaster coatings; including the installation of metal framing for the support of lath;

C-37 Plumbing contractor. To install, repair, or alter complete plumbing systems which shall include supply water piping systems, hot water piping systems which includes, but is not limited to, heat pump water heaters, and hot water supply boilers with a heat input of 200,000 BTU/h or less, waste water piping systems, fuel gas piping systems, non-potable water treatment systems, waste water treatment systems, and other fluid piping systems; the equipment, backflow prevention assemblies, instrumentation, non-electric controls, and the fixture for these systems and the venting for waste water piping systems and fuel gas piping systems; for any purpose in connection with the use and occupancy of buildings, structures, works, and premises where people or animals live, work, and assemble; including piping for vacuum, air, and medical gas systems, spas and swimming pools, lawn sprinkler systems, irrigation systems, sewer lines and related sewage disposal work performed within property lines, fire protection sprinkler systems when supervised by licensed mechanical engineers or licensed fire protection contractors, and solar hot water heating systems, and the trenching, backfilling, patching, and surface restoration in connection therewith; and to install related firestopping;

A **C-37a Sewer and drain line contractor.** To install sewer and drain line from house to city sewer with connections; and to install cesspools, septic tanks, package sewage treatment plants, and related work, within property lines;

A **C-37b Irrigation and lawn sprinkler systems contractor.** To install all piping and fittings, pressure regulators, backflow prevention devices, and irrigation control electrical wiring that will carry twenty-four volts or less, as required to provide irrigation systems for, but not limited to lawns, parks, playgrounds, highway right of ways, golf courses, and school facilities; including installation of automatic or manual controls in relation to an irrigation system;

C-37c Vacuum and air systems contractor. To install tubing for air systems, pneumatic conveyor systems, and central vacuum systems for conveying material and to install related firestopping;

C-37d Water chlorination and sanitation contractor. To chlorinate or sanitize water or water lines; repair water lines and additions to water lines; and check bacterial count in the water or water lines;

C-37e Treatment and pumping facilities contractor. To install, assemble, alter, repair and maintain the equipment and piping systems in connection with wastewater treatment, water distribution, and water pumping facilities; and to install related firestopping;

C-37f Fuel dispensing contractor. To install, remove, and repair gas tanks, hazardous waste storage tanks, pumps, hoists, or other related equipment for facilities such as, but not limited to, service stations; and to install related firestopping;

A **C-38 Post tensioning contractor.** To apply compression to concrete structures or various components by the use of steel bars or wires; and to bring bars or wires to proper tension after the structures or components are built or placed;

C-39 Pre-stressed concrete reservoirs contractor [license]. To construct and repair pre-stressed concrete reservoir tanks, including related post-tensioning[, and excluding]; provided that this shall not include reinforced steel;

C-40 Refrigeration contractor. To assemble and install devices, machinery, and units, including temperature insulation units, ducts, blowers, registers, humidity, and thermostatic controls for the control of air temperature below fifty degrees Fahrenheit in refrigerators, refrigerator rooms, and insulated refrigerator spaces; and to construct walk-in refrigerator boxes; and to install related firestopping;

C-40a Prefabricated refrigerator panels contractor. To install prefabricated refrigerator panels;

C-41 Reinforcing steel contractor. To fabricate, place, and tie [steel] using steel wire or any facsimile steel product or glass fiber reinforced polymer for reinforcing bars of any profile, perimeter, or cross-section, that are or may be used to reinforce concrete buildings and structures;

C-42 Roofing contractor. To install roofing to an acceptable surface and provide a weather tight covering using metal; composition and cementitious shingles; wood shingles and shakes; concrete, clay, and

other types of tile; building integrated photovoltaic shingles and tiles; built-up, modified bitumen, single ply, and fluid type systems; and other roofing materials including spray urethane foam, asphalt, and liquid (cutback) asphalt. To apply protective or reflective roofing, [or both. To apply] stain, water repellant materials, deck coatings, and top coatings. To also install roof flashing, penetrations, standoffs, underlay, [purlins,] sleeper, and nailer strips in connection with all of the above;

B C-42a **Aluminum and other metal shingles contractor.** To install aluminum and other types of metal shingles so that an acceptable watertight surface is obtained;

B C-42b **Wood shingles and wood shakes contractor.** To install wood shingles and shakes; including all flashing materials to form a watertight surface, staining in conjunction with shingle and shake application, and application of water repellent materials;

C-42c **Concrete and clay tile contractor.** To lay concrete and clay tile including any underlay, purlins, or nailer strips in conjunction therewith to form a watertight surface;

C-42e **Urethane foam contractor.** To prepare roof surface and apply urethane foam and top coating in connection therewith to form a watertight roof surface;

C-42g **Roof coatings contractor.** Application of roof coatings for waterproofing and reflective purposes; including any surface preparation necessary for these applications;

C-42h **Roof thatching contractor.** To install any vegetation and/or synthetic materials that is gathered, bundled and secured to a framework, solid or skip sheathing with screws, tie wires, nails on top of a roof structure with an roof underlayment;
(formerly C-68RK)

B C-42i ~~**Prefabricated corrugated**~~ **Corrugated roof [panel] contractor.** To

install roofs made of ~~[prefabricated,]~~ corrugated galvanized metal ~~[and]~~ or corrugated fiberglass ~~[metal roof panels, limited to]~~ material;

- A **C-43 Sewer, sewage disposal, drain, and pipe laying contractor.** To install mechanical ~~[process]~~ piping that carries sewage to sewer disposal plants, to construct ~~[concrete and masonry sewers,]~~ packaged sewer disposal plants and ~~[systems,]~~ packaged sewage lift stations, ~~[waste reduction plants,]~~ septic tanks, surge tanks, and appurtenances thereto; to lay all types of ~~[underground]~~ piping *outside the building* for storm drains, potable and non-potable water, [and] gas lines, irrigation, [and] sewers, and manholes [in connection with the above work]; and repairing, relining, and reconditioning of pipelines, including the excavation, grading, trenching, backfilling, paving, and surfacing in connection therewith; provided that this shall not include the installation of process piping [that does not carry sewage] within the building;

~~[C-43a Packaged sewer and lift station contractor. To construct packaged sewer disposal plants and packaged sewage lift stations, septic tanks, surge tanks, and appurtenances thereto; provided that this shall not include the installation of process piping;]~~

- C-43[a]b Reconditioning, relining, and repairing pipeline contractor.** To repair, reline, or recondition water and sewer lines manually or by remote control [in conformity with county sewer or with water supply departments specifications];

- C-44 Sheet metal contractor.** To fabricate, assemble and install cornices, flashings, gutters, downspouts, kitchen and laboratory equipment, duct work, metal flues, and free standing fireplaces and chimneys; and to install pre-manufactured sheet metal products such as metal chutes, lockers, shelving, louvres, nonbearing metal partitions, metal siding and roofing, and other sheet metal items common to the trade, and facsimile items such as plastic skylights, fiberglass ducts and fittings, including installation of metal awnings, canopies, patio covers, and seamless metal gutters;

- C-44a Gutters contractor.** To fabricate and install gutters and downspouts;

- C-44b Awnings and patio cover contractor.** To fabricate and install awnings and patio covers.

A C-45 Sewer and Lift station contractor.

To construct sewers, sewer disposal plants and systems, sewage lift stations, waste reduction plants, septic tanks, surge tanks, and appurtenances thereto; to lay all types of **underground** piping outside the building for storm drains, potable and non-potable water, and gas lines, irrigation, sewers, and manholes; and repairing, relining, and reconditioning of pipelines, including the excavation, grading, trenching, backfilling, paving, and surfacing in connection therewith; provided that this shall not include the installation of process piping within the building;

A C-47 Railroad track contractor. To install, remove, recondition, repair or maintain railroad rails, signaling, switches, turnouts, frogs, ties and the related components; to correct vertical and horizontal rail alignment by straightening rails or by removing or adding ballast; to recondition old track under where new roads may cross; to perform civil and under-drain work in connection with the track foundation; and to install, remove, or repair surfacing at rail tracks; (formerly 68RR)

C-48 Structural steel contractor. To fabricate and erect structural steel shapes, bars, rods, and plates of any profile, perimeter, or cross-section, that are or may be used as structural members for buildings and structures; including riveting, bolting, welding, and rigging in connection therewith. Erection of metal buildings, passenger loading bridges, metal roofing and metal siding installed on steel framing, mechanical, overhead, sliding and roll-up steel doors, and grills and bars over windows;

C-48a Steel door contractor. To install and repair mechanical, overhead, sliding and roll-up steel doors;

C-48b Pre-engineered buildings contractor. To supply and erect pre-engineered metal buildings. This includes, but is not limited to, installing anchoring fasteners, rigid frame members, girders, purlins, shear rods and brackets, insulation, metal roofing and siding, related metal frames, sheet metal trims and gutters, related welding, overhead sliding and rollup doors, windows, doors, related soffits, eaves, mezzanines, and decking; provided

that all of the above are done in connection with the pre-engineered package metal buildings as provided by the manufacturer; (formerly C-68MI)

C-48c ~~[Chimney and smokestacks]~~ Smokestack contractor. ~~[Chimney and smokestack]~~ Smokestack installation, construction, repair and demolition; interior liner repair; [and work incidental thereto;] (formerly C-68CY)

C-48d Dome cover installation contractor. Installation of dome covers that involves bolting up factory prefabricated parts for the dome covers or factory prefabricated sheets for the storage tanks only; (formerly C-68DI)

C-48e Communication tower contractor. ~~[To bid, contract and build communication towers only.]~~ To construct, erect and repair steel communication towers including the related excavation, surface preparation, grading, tower foundation, coaxial cabling, antenna systems and microwave systems; provided that this shall not include the installation of any conduit, electrical wiring, or electrical connections for power wiring;

C-48f Pre-engineered hybrid panelized roof structure contractor. To construct and install pre-engineered panelized systems where metal joists are welded or bolted to the metal trusses;

(Formerly C-68HP Hybrid panelized roof structure)

- A **C-49 Swimming pool contractor.** To construct and repair concrete, gunite, shotcrete, metal, or plastic type pools, whirlpool baths, hot tubs, ~~[jacuzzies,]~~ pool decks, and walkways; including, but not limited to, installation and repair of water and gas service lines, from closest point of service to pool equipment, pool piping, fittings, back flow prevention devices, pumps, heaters, chlorine dispensers, pool plastering and other types of interior finishing and sealing, ceramic tile, coping, swimming pool accessories and safety devices, fences for protective purposes if in original contract and excavation and grading in connection with swimming pool construction;

C-49a Swimming pool service contractor. Repair and replacement of pumps, filters, heaters and related circulation piping for swimming pools, whirlpool baths, and ~~[jacuzzis;]~~ hot tubs; acid washing or repainting of swimming pool, whirlpool bath, and ~~[jacuzzi]~~ hot tub interiors; and repairs to pool tile, coping stones, plaster, and decks;

C-49b Hot tub and pool contractor. To install hot tubs, saunas, and vinyl or fabric lined pools to include water catchment, storage, and transmission;

C-51 Tile contractor. ~~[To prepare the base upon which ceramic, mosaic, granite, terrazzo, and other tile work, including all pseudo tile and marble or cultured marble products, will adhere by suction, fasteners, or by adhesives; and to install these products;]~~ To install hard tile surfaces of ceramic, stone, porcelain, and other tiles to floors, walls, ceilings, and counters on both exterior and interior locations using appropriate bonding adhesives, mechanical fasteners, or other industry approved means; and to prepare substrate of backer boards, mortar bed, tile specific membranes for waterproofing, crack isolation, caulking, grout, and related setting components;

C-51a Cultured marble contractor. To prepare the base and install cultured marble or synthetic marble products;

C-51b Terrazzo contractor. To place and finish terrazzo and liquid membrane with terrazzo chips;

C-52 Ventilating and air conditioning contractor. To fabricate, assemble, and install warm-air heating and air cooling systems including heating and cooling solar systems, complete ventilating systems and complete air conditioning systems including, but not limited to, piping, controls (other than electrical), instrumentation, building automation, energy management, and trenching, backfilling, patching, and surface restoration in connection with the installation of the air conditioning systems; and including installation of thermal and acoustical insulation necessary to maintain heat, or sound, or both, within the systems above. This also includes the installation of heat pumps related to the air conditioning system; and to install related firestopping;

C-52a Ductless split system air conditioning contractor. To assemble and install ductless warm-air heating and ductless air cooling systems units totaling not more than four and one-fourth tons refrigeration (fifteen kilowatt) cooling capacity;

C-53 Miscellaneous retail products contractor. To enter into contracts to install miscellaneous retail products sold by the licensee; provided that the installation work shall be subcontracted to and physically performed by appropriately licensed contractors. The licensee shall operate as a retailer at a fixed location of 10,000 square feet or more; file a \$50,000 surety bond with the board; provide in-house financing; inform consumers that they do not physically perform the installation work and state that in all advertising; and be primarily responsible and liable for the actions of the other contractors performing the installation work.

C-54 Interior design contractor. To enter into contracts to provide interior design services and perform the renovation work; provided that the renovation work shall be subcontracted to and physically performed by appropriately licensed contractors. The licensee shall inform consumers that they do not physically perform the renovation work and state that in all advertising; and be primarily responsible and liable for the actions of the other contractors performing the renovation work.

C-55 Waterproofing contractor. To apply felt, glass, asphaltum, bentonite, hot rubberized coatings, epoxy, sodium silicate, pitch, silicone, elastomeric coatings, sheet and fluid applied membranes, repellents, vapor barriers, or any other materials or combination of materials, including bituminous systems and cementitious and reactive applications, to surfaces to prevent water and/or [water] moisture vapor transmission from penetrating and passing the materials. Work shall include, but not be limited to, waterproofing exterior walls, at mud slabs, structural slabs and between slabs, both above and below grade, planter boxes, expansion joints, tank linings and application of tank coatings, and application to parking decks, play courts, and walking decks to form a watertight non-skid surface, but; provided that the work shall

not [to] include [the] work [of the C-42 roofing contractor] on surfaces primarily used as a roof. [This] Work also includes surface preparations of all types, caulking, sandblasting, waterblasting, power cleaning, or steam cleaning preparatory to waterproofing; and installation of flashing details for penetrations, terminations, and standoffs;

- A C-56 **Welding contractor.** On-site job layout, cut, assemble and weld the metal products including, but not limited to, [~~pipe lines,~~] pipelines, tanks, pressure vessels, [~~guard rails,~~] guardrails, and fire escapes, [~~by~~] using various welding techniques using carbon arc, metal arc, submerged arc, flux core, resistance, and oxyacetylene processes; procedures;

C-57 **Well contractor.** To bore, drill, excavate, case, cement, clean, and repair water wells; and to install injection wells, water well pumps and pump controls, concrete pump base and waterline to adjacent storage tank;

- A C-57a **Pumps installation contractor.** To install pumps and related equipment including controls, to wells;

- A C-57b **Injection well contractor.** To install injection wells;

C-60 **Solar power systems contractor.** To assemble and install photovoltaic panels, batteries, controls, monitoring systems, and related low voltage D.C. wiring; provided that this shall not include the installation of any [~~conduit,~~] electrical wiring, electrical connections, or grounding and bonding. Work includes anchor points that have pre-engineered sealing systems;"

- A C-61 **Solar energy systems contractor.** To assemble and install solar hot water systems in residential and commercial buildings and swimming pools, provided that this shall not include the installation of heat pumps or water heaters. To install solar heating and cooling systems in residential, commercial, and industrial buildings; provided that this shall not include the installation of [~~of~~] any conduit, electrical wiring, electrical connections, grounding, bonding and plumbing work;

C-61a Solar hot water systems contractor. To assemble and install collectors, storage vessels, controls, pumps, and piping in connection therewith; provided that this shall not include the installation of of any conduit, electrical wiring, electrical connections, grounding, bonding and plumbing work;

~~["C-61b Solar heating and cooling systems contractor. To install solar heating and cooling systems; provided that all specialty work requiring a license is subcontracted to contractors licensed to perform that work;]~~

C-62 Pole and line contractor. To dress, ground, anchor, and erect poles that will carry high voltage (more than 600 volts [or more] phase to phase [~~or more~~]) electrical wires; and to connect and string electrical wires, fixtures, and apparatus to and between the poles, including installation of pole-mounted transformers. Work shall include street and highway lighting and traffic signal systems, and the work of the C-63 high voltage electrical contractor;

C-62a Pole [~~Contractor~~] reinforcement contractor. To strengthen poles by injecting into or encasing poles with fiberglass, polyurethane, epoxy, or similar materials; or to reinforce poles using steel trusses or braces[.];

C-62b Pole contractor. To install and replace poles, provided that the installation of the ground wires, cross arms, anchors, guy wires, insulators, and conductors is performed by a contractor holding the C-62 Pole and line classification;" (formerly C-68PR)

C-63 High voltage electrical contractor. To place, install, erect, or connect any electrical wires, fixtures, appliances, apparatus, conduits, raceways, and to do trenching, backfilling, patching, and surface restoration in connection with the installation of conduits and lines which transmit, transform, or utilize electrical energy of [~~more than~~] 600 volts or more phase to phase;

A C-64 Underwater construction contractor. To perform underwater work such as break repair, anchoring, anode replacement, diffuser repair, and outfall pigging; harbor and dock work such as pile removal, pile jacketing,

sheet pile repair, dock concrete repair, and underwater rail system repair; and reservoir leak and gate valve repair. This classification is only for work performed underwater. The other contractor classifications may automatically perform this type of work in connection with their classifications;
(formerly C-68 UW)

C-68 Classified Specialist

C-68AL Audiovisual wiring – this classification is being eliminated, and current C-68AL license holders will be awarded a newly established C-15d license.

C- [C-68CG] Cathodic protection contractor. “To install cathodes to control corrosion of a metal surface; provided that this shall not include the installation of any conduit, electrical wiring, or electrical connections for power wiring; **Newly established C-13a**

C-68CS Composite strengthening contractor. Installation of fiber reinforcement polymers for structural and seismic strengthening. **Newly established C-31f**

C-68CY [Chimney and smokestacks] Smokestack contractor. Smokestack installation, construction, repair and demolition; interior liner repair; ~~[and work-~~ incidental thereto;] **Newly established C-48c**

C-68DI Dome cover installation contractor. Installation of dome covers that involves bolting up factory prefabricated “packaged” aluminum parts for the dome covers or factory prefabricated sheets for the storage tanks only;

C-68FE Laminate flooring contractor.

This classification is being eliminated, and current C-68FE license holders will be

awarded a newly established C-21a Engineered wood and laminate flooring contractor license.

~~C- ____ [C-68FF] **Synthetic field surface contractor.** To apply and install synthetic turf over a properly prepared base on a playfield, play court, recreation area or landscaped area.~~

"To apply and install synthetic turf over a prepared base for a playfield, play court, recreation area, or landscaped area; to construct the required subgrade and install drainage; to join seams and inlay by sewing, gluing, stapling, or other methods; and to infill and test fields to meet required industry safety standards. **Newly established C-28**

C-68HD **Horizontal drilling and micro tunneling contractor** - this classification is being eliminated, and current C-68HD license holders will be awarded a newly established C-17a and C-17b license.

~~C- ____ [C-68HP] **Pre-engineered hybrid panelized roof structure**~~
To construct and install pre-engineered panelized systems where metal joists are welded or bolted to the metal trusses.

~~[Eliminate the C-68HP classification and allow the C-6 to perform this work.]~~

Newly established C-48f

C-68MI Prefabricated metal buildings contractor.

This classification is being eliminated, and current C-68MI license holders will be awarded a newly established C-48b Pre-engineered buildings contractor license.

C-68PR **Erect new poles in new pole lines only** - this classification is being eliminated, and current C-68PR license holders will be awarded a newly established C-62b Pole contractor license.

C- ~~[C-68RH Refinery, industrial plant, and power plant repair and maintenance [and resource equipment — Repair and installation of refinery process equipment and piping, and resource recovery equipment.]~~
To maintain, repair or replace-in-kind the existing refinery process equipment, piping and resource recovery equipment; provided that this shall not include cutting or welding of structures or piping or any additions or alterations of equipment foundation;”
Newly established C-4a

C-68RJ Concrete reservoirs contractor.

This classification is being eliminated, and current C-68RJ license holders will be awarded a newly established C-39 Pre-stressed concrete reservoirs contractor license.

C-68RK **Roof thatching** (does not include sub-roofs) - this classification is being eliminated, and current C-68RK license holders will be awarded a newly established C-42h Roof thatching contractor license.

C- ~~[C-68RL]~~ **Rockfall mitigation** - To remove or secure rock from movement by use of concrete, shotcrete, boulder fence, cable, matting, slope stabilization methods and other barrier or anchoring systems related to rockfall mitigation. Matting may include metal mesh, chain link fabric or cable mesh; **Newly established C-29**

C- ~~[C-68TN]~~ **Communication tower** – ~~[To bid, contract and build communication towers only.]~~ To construct, erect and repair steel

communication towers including the related excavation, surface preparation, grading, tower foundation, coaxial cabling, antenna systems and microwave systems; provided that this shall not include the installation of any conduit, electrical wiring, or electrical connections for power wiring;

Newly established C-48e

C- ____ [C-68TP] **Power station cooling tower** – To demolish, remove, repair, replace, or install various sized cooling towers for process cooling in refineries, power plant, food processing, manufacturing facilities, and HVAC systems for building comfort. The work includes pre-fabricated, pre-manufactured, and field-erected towers; with the exception of any electrical, plumbing, processed piping, civil and structural foundation construction;

Newly established C-30

Eliminate C-68WP Wind power systems

~~[C-68WP **Wind power systems** – To place, install and erect poles, rotors, turbines, blades and related apparatus, including footing, anchors and guys, for the purpose of wind driven power generation; provided that this shall not include raceways, grounding, wiring and power terminations. Limited to the assembly of factory manufactured systems up to 100 KW, and shall not include welding, structural steel or reinforcing steel work.]~~

C- ____ [~~C-68RR~~] **Railroad track contractor.** To install, remove, recondition, repair or maintain railroad rails, signaling, switches, turnouts, frogs, ties and the related components; to correct vertical and horizontal rail alignment by straightening rails or by removing or adding ballast; to recondition old track under where new roads may cross; to perform civil and under-drain work in connection with the track foundation; and to install, remove, or repair surfacing at rail tracks; **Newly established C-47**

C- ____ [~~C-68FP~~] **Fall protection system contractor.** To fabricate, assemble, install, repair, recondition, replace, inspect and test permanent personal fall arrest systems including, but not limited to, single point anchors, horizontal

lifelines, rigid rail fall arrest, and ladder safety devices. The other contractor classifications may automatically perform this type of work in connection with their classifications; **Newly established C-11**

C-___ [C-68UW] Underwater construction contractor. To perform underwater work such as break repair, anchoring, anode replacement, diffuser repair, and outfall pigging; harbor and dock work such as pile removal, pile jacketing, sheet pile repair, dock concrete repair, and underwater rail system repair; and reservoir leak and gate valve repair. This classification is only for work performed underwater. The other contractor classifications may automatically perform this type of work in connection with their classifications;
Newly established C-64

The Investigative Committee proposes to amend section 16-77-32, HAR by adding a new subsection (d):

(d) The "B" general building contractor may also install through-penetration firestopping ~~or~~ and membrane-penetration firestopping.

~~[(d)]~~ (e) Licensees who hold a specialty contractors license shall automatically hold the subclassifications of the licensee's particular specialty without examination or paying additional fees.

