

Cite It, Write It Checklist

SETBACK - FOUNDATIONS - FOOTINGS

#	ZONING	ORSC	OSSC
1	Site address not plainly visible.	R321.1	501.2
2	Provide approved construction plans on job site.	R106.3.1	106.3.1
3	It shall be the duty of the permit holder to provide access to and means for inspections of such work that are required by this code.	R109.3	109.5
4	Setbacks, projections and distances from lot lines.	R106.2	106
5	Slopes exceed engineering requirements and/or setback.	R403.1.9.2	1805.3
6	A copy of the building permit is required on site.	R105.7	
7	Fill soils that support footings or foundations are required to be installed and tested per accepted engineering practice.	R401.2	1805
FOOTINGS		ORSC	OSSC
8	Sizes: 1 floor: 6" stem w/ 12"x6" ftg; 2 floors: 8" stem w/ 15"x7" ftg; 3 floors: 10" stem w/ 18"x8" ftg.	R403.1.1	
9	Exterior footings required to be min. 12" below finish grade or frost line and on undisturbed soil. Adjust forms.	R403.1.5 T301.2(1)	1805.2
10	In D1 or D2 seismic zones a minimum 1, #4 rebar in footing and 1, #4 rebar in stem-wall is required.	R403.1.4.1	n/a
11	In D1 or D2 seismic zones, a construction joint for two pour foundations require #4 verts @ 4' o.c. (3" from bot, 14" into stem)	R403.1.4	n/a
12	Slab-on-grade w/ turned down ftg require (1) #4 @ top and bottom	R403.1.3.2	
FOUNDATION WALL REBAR		ORSC	OSSC
13	Reinforced foundation walls with 4' or higher (from top of stem wall to bottom of footing) of unbalanced fill, requires vertical rebar.	Table R404.1.1	1805.5(2-4) /tables
14	Top of foundation to be at 12"+ 2% above street gutter.	R403.1.9.3	1805.3.4
15	Foundation walls retaining over 4 foot of backfill must be restrained by floor or slab, or engineered as a retaining wall.	R404.1.3	1805.5
16	Vent openings shall be within 3 feet of each corner of the building.	R408.2	1612.5
17	Underfloor ventilation area is insufficient.	R408.1	1203.3
18	Grounding electrode (UFER) not installed properly.	R403.1.7	1805.4.2
19	Hold-downs and rebar for ABP's or portal frame not tied in place.	R602.10.6 or per mfr's instructions	2308.9.3.1
20	All rebar shall be tied in place at time of inspection	R109.1.1	1907.5.1
21	Minimum clearance to rebar: 1-1/2" on sides, 3" to bottom		Tab 1907.7.1

UNDERFLOOR POST & BEAM

#	POST & BEAM, JOIST REQUIREMENTS	ORSC	OSSC
	<i>Verify low-point drain</i>		
1	Mud sills and plates in direct contact with concrete shall be pressure treated.	R319.1	2304.11.2.3
2	Provide bearing under IBP's.	R602.10.9	
3	Posts on pads less than 8" from exposed ground shall be pressure treated. If pads are greater than 8", posts require impervious barrier.	R407.2	
4	Wood girders in concrete shall have ½ inch air space on top, sides, and ends or else shall be pressure treated.	R319.1 #4	2304.11.2.4
5	Provide a minimum of 12 inches of clearance under beams, 18 inches under joists or else shall be pressure treated.	R319.1 #1	2304.11.2.1
6	Joist, beam or girder shall have not less than 1.5 inches of bearing on wood or metal and not less than 3 inches on masonry or concrete	R502.6	2308.8.1
7	Anchor bolts not spaced correctly.	R403.1.8	4 inches from each end 2308.6
8	Holes bored in joists shall not be within 2 inches of the top or bottom of the joist and the diameter shall not exceed 1/3 the depth of the joist.	R502.8.1	2308.8.2
9	Joists under and parallel to the bearing partitions shall be doubled. Bearing partitions perpendicular to joists shall not be offset from supporting girders, walls or partitions more than the joist depth.	R502.4	2308.8.4
10	Post & Beam connection not adequately fastened. Gusset to be full-length both sides @ splices, full post width.	R502.9	2304.10.2
11	Replace broken or split sill plates. (if load-bearing ability is affected)	R403.1.8	2308.6
12	6 mil black polyethylene shall be lapped 12" at joints and turned up 12 inches on foundation wall.	N1104.9.2	1307.1.8.2 & 1312.1.4
13	Provide floodplain certificate if required.	R323.1.9	1612.5
14	Install low point drain as designed.	R408.5	1803.7
15	Remove all debris in underfloor area. The underfloor grade shall be cleaned of all vegetation and organic material. All wood forms shall be removed before a building is occupied or used for any purpose.	R408.4	

UNDERFLOOR MECHANICAL

#	MECHANICAL UNDERFLOOR	ORSC	OMSC
1	Duct insulation absent or insufficient (R-8).	M1601.2.1	604.9
2	Ducts shall be installed with at least 4" separation from earth or only 1" separation from the earth with approved ground cover.	M1601.3.7	603.14
3	Dryer exhaust vent pipe exceeds allowable length (25', -5' for 90's)	M1501.3	504.6.1
4	Ducts not supported correctly.	M1601.3.3	603.10
5	Gas line not supported correctly	G2424.1	

FRAMING

#	FRAMING REQUIREMENTS	ORSC	OSSC
	<i>Electrical, plumbing, and mechanical rough-ins must be completed and approved before Framing!</i>	R109.1.4	
	SHEAR WALLS / IBP's	ORSC	OSSC
1	Braced walls either not per plan or as engineered.	R602.10.11	2306.4
2	Sheathing fasteners overdriven. Nail sizes or pattern not per prescriptive or engineering details.	R301.1.3 T602.3(1)	2308.1
3	Hold-downs or straps for ABP, or Portal Frame as engineered are not correct size or per design.	R602.10.6	2308.9.3.1
4	Fasteners for pressure preservative and fire-retardant-treated wood shall be of hot-dipped galvanized steel , ...	R319.3	1405.16
	FLOOR AND ROOF FRAMING	ORSC	OSSC
5	Trusses installed are not according to approved plans. Lateral bracing not as detailed on truss design.	R502.11 & R802.10	2308.10
6	Floor joists shall have a 2-inch thick solid blocking the full depth of joist at each support, except where ends of joists are nailed to a header, band or rim joist.	R502.7	2308.8.2
7	Ridge board thickness shall not be less than 1-inch nominal and not less in depth than the cut end of rafters required.	R802.3	2308.10.4
8	Rafters shall be nailed to adjacent ceiling joists to form a continuous tie. When not parallel, rafters shall be tied to 1-inch by 4-inch minimum crossties. Rafter ties shall be spaced not more than 4-feet on center.	R802.3.1	2308.10.4.1
9	Plans and specifications for manufactured trusses prepared by an architect or engineer and submitted to jurisdiction prior to fabrication. Such trusses shall not be altered or modified without approval of the engineer.	R802.10.1 & R802.10.4 ALT	2308.10.7 2308.10.7.3
10	Rafters, ceiling joists and trusses shall be supported laterally to prevent rotation with full-depth blocking at ends and at points of bearing.	R802.8	2308.10.4.1
11	Attic ventilation is not sufficient.	R806.2	1203.2
12	Roof flashing of 26-gauge corrosion-resistant metal over underlayment of not less than Type 15 felt is required for wood shingle or shake roofs.	R905.2.8.2	1503.2
13	Hurricane clips missing. Trusses shall be connected to wall plates with approved connectors.	R802.11	2308.10.1
	WALLS	ORSC	OSSC
14	Top plate splices too close together. Double top plate end joints required to be offset at least 24" or when top plate is notched more than 50%.	R602.3.2	48" OSSC 2308.9.2.1
15	All vertical joints of panel sheathing shall occur over studs. Horizontal joints in braced wall panels shall occur over blocking of a minimum of 1.5" thickness.	R602.10.7	
	ACCESS	ORSC	OSSC
16	Provide 18" by 24" access opening to <u>under-floor crawl space</u> . Provide 22" by 30" readily accessible opening to <u>attic area</u> . Opening NOT to be located over shelf in closet.	R408.3 & R807.1	1209.1

	WINDOWS	ORSC	OSSC
17	Provide egress window with min. net clear opening of 5.7 sf (5.0 sf for grade-floor windows) and a min. height of 22" and a min. width of 20" and with sill not more than 44 " above the floor.	R310.1	1025.2
18	Glazing in walls, fences, swimming pool areas and used in railings must be safety glass if any of the following apply... 1) within 18" of the floor and is larger than 9 sf and higher than 36" and within 36" of a walking surface, or 2) within 24" of a door, or 3) in a door, or 4) within a tub or shower unless the bottom edge is at least 60" above the standing surface, or 5) adjacent to a stairway, ramp, or landing unless the bottom edge is at least 60" above the bottom surface and glass must conform to section R308. 6) Glazing adjacent to stairways, landings and ramps within 36" horizontally of a walking surface when the exposed surface of glass is less than 60" above the plane of the adjacent walking surface.	R308.4	2406.3
	STAIRWAYS	ORSC	OSSC
24	Stairways, 4" -7" rise and 11" minimum run in commercial and 8" maximum rise and 9" minimum run in residential. Headroom in stairways shall be a minimum of 80-inches.	R311.5.3 Riser and run R311.5.2	1009.3 /1009.2 headroom
25	Winder treads shall have a minimum tread depth of 6" and a minimum tread depth of 10" at a point 12" from the inside corner.	R311.5.3.2	1009.3
	FIRE PROTECTION	ORSC	OSSC
26	Ducts piercing garage separation wall shall be 26-gauge galvanized steel or other approved material.	R309.1.1	406.1.4#2
27	Provide fireblocking at intervals not exceeding 10' horizontal & vertical in furred walls and at floor or ceiling vertical-to-horizontal connections and at stair stringers and concealed locations.	R602.8	717.2
28	Fireblocking shall be installed at openings around vents, pipes, ducts, chimneys and fireplaces at ceiling and floor levels, with an approved material to resist the free passage of flame and the products of combustion. Factory-built chimneys and fireplaces shall be fireblocked in accordance with UL 103 and UL 127.	R717.2.5	F717.2.5
29	Smoke detectors are not installed with proper clearances to supply air ducts or per detector's installation instructions. No closer than 3' to supply ducts, kitchen door, or bathrooms that create steam.	R313.1	
	BATHROOMS	ORSC	OSSC
30	Water closet clear area is insufficient.	Fig R307.2	2902.6
	FIREPLACES	ORSC	OSSC
31	Masonry fireplaces require anchorage at floor and ceiling levels.	T R1003.1	Table 2111.1
32	Provide clearance to combustibles for masonry fireplaces min. 2".	T R1003.1	Table 2111.1

INSULATION

#	INSULATION REQUIREMENTS	ORSC	OSSC
1	Exposed wall and ceiling insulation and vapor barrier shall have a Flame Spread rating of 25 or less and a Smoke Development rating of 450 or less and be installed with adequate clearances.	R316.1 Installation Instructions	719.2
2	Foamed plastic insulation (Thermal Barrier) is not installed as per ASTM E 119 or Section R702.3.5.	R314.1.2	2602.4 & 707
3	Installed insulation does not meet energy compliance method on approved plans.	N1101.4	1301.3
4	Sealing around window and doors and penetrations is absent or insufficient.	N1104.8.2	1307.1.7
5	Insulation of ducts located outside building envelope is insufficient.	M1601.3.5 & T N1104.1(1)	1308.1.1
6	I.C. rated fixtures required in this location.	N1104.2.4 Ex	1307.1.1.6
7	Baffles as installed do not meet minimum requirements at eaves.	N1104.2.1	1307.1.1.1
8	Verify that the U-values on the window meet the energy path. No label on window.	Table N1104.1(1)	Table13-E
9	Insulation on forced air ducts in attic and garage = R-8.	Table N1104.1(1)	
10	Wet insulation to be replaced	N1104.9	

MECHANICAL ORSC

#	PRECOVER	ORSC	OMSC
1	Type B gas vents do not have a min. 1 inch clearance from wood, romex wire, or combustibles	G2425.15.4 & M1803.3.4	Table C503.7.7
2	Furnace located in crawl space or attic does not have a minimum 30 inch by 30 inch access door, the furnace is located more than 20 feet from access door, and a permanent electrical outlet and lighting fixture controlled by a switch is not provided at access	M1305.1.3 & M1305.1.4	306.3 & 306.4
3	Exhaust fan ducts do not run to exterior.	M1506.4	501.2
4	Combustion air opening into attic requires a metal sleeve to min. 6 inches above ceiling joist .	M1703.3	701.4.2
5	Insulation sleeve not provided to keep thermal insulation away from metal chimney or gas vents and extend not less than 2 inches above the insulation.	G2426.4	C502.4
6	Gas line not completely installed or air pressure test not on.	G2417.4.1	C406.4.1
7	Ducts support is absent or insufficient or not per manufacturer's installation instructions.	M1601.3.3	603.10 & Smacna HVAC
8	All joints of duct systems used in heating or cooling of conditioned spaces shall be sealed by means of tapes, mastics, aerosol sealant, or other approved means. When mastic is used to seal openings >1/4", a combination of mastic and mesh is required.	M1601.3.1.1	
9	A yellow insulated copper tracer wire or other approved conductor shall be installed adjacent to underground nonmetallic piping.	G2415.14.3	
10	Underground piping, where installed below grade through the outer foundation or basement wall of a building, shall be encased in a protective pipe sleeve. The annular space between the gas piping and the sleeve shall be sealed.	G2415.4	
11	Condensate waste and drain line size shall be not less than 3/4-inch (91mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal.	M1411.3.2	
12	When installed over living space, provide a backup drain.	M1411.3.1	

FINALS

	<i>Electrical, plumbing, and mechanical DP labels must be approved and collected.</i>		
#	PERIMETER	ORSC	OSSC
1	Address not visible from street.	R321.1	4" min 501.2
2	Final grade does not slope away from foundation (6" the first 10').	R401.3	1803.3
3	Provide flashing above openings without eaves and at tops of veneer.	R703.8	1403.2
	GARAGE	ORSC	OSSC
4	Garage / Dwelling fire separation is absent or insufficient.	R309.1	406.1.4
5	Openings from a private garage into a sleeping room are prohibited.	R309.1	406.2.9
6	5/8" type X sheetrock required on garage ceiling below living space.	R309.2	
	BATH	ORSC	OSSC
7	Water closet minimum clear area is insufficient.	Fig. 307.2	2902.9
8	Shower areas shall have a hard, non-absorbent surface wall to height of not less than 6 feet above the floor.	R307.2	2509.3 & 807.1.2
9	Shower doors and bathtub doors shall have tempered laminated safety glass or approved plastic glazing.	R308.1 – R308.4	2406
	BEDROOMS	ORSC	OSSC
10	Smoke Detectors: 1. In each sleeping room. 2. Outside each separate sleeping area in the immediate vicinity of the bedrooms. 3. On each additional story of the dwelling, including basements but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split-levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.	R313.1	
11	Egress windows – minimum width 20" – minimum height 22" - minimum net clear opening 5.7 sq. ft. (821 sq. in.) – sill height max = 44"	R310.1	1025
	SAFETY GLASS	ORSC	OSSC
12	All glass must be safety glass if any of the following apply: 1) within 18" of the floor and is larger than 9 sf and higher than 36-inches and within 36 inches of a walking surface or 2) within 24-inches of a door, or 3) in a door, or 4) within a tub or shower unless the bottom edge is at least 60-inches above the standing surface, or 5) adjacent to a stairway, ramp, or landing unless the bottom edge is at least 60-inches above the bottom surface ...and glass must conform to section R308.	R308.1 - R308.4	2406
	STAIRWAYS	ORSC	OSSC
13	Handrails required not less than 30" nor more than 38" above nosing of stair tread. Required to be graspable. Headroom min. of 6'-8".	R311.5	34-inches-38-inches1009
14	Guardrails shall be 36-inches in height for dwelling porches, balconies, or raised floor surfaces, (34 inches in height for open stairs). Guardrails for porches, or balconies shall have intermediate rails that a 4" sphere cannot pass through (4 5/8" for open tread stairs.)	R312.1	1012
15	Enclose accessible space under stairs with 1/2" gypsum board.	R311.2.2	1019.1.5

	CRAWL SPACE	ORSC	OSSC
16	Provide ground cover of 6-mil black polyethylene in crawl space.	N1104.9.2	1312.1.4
17	Weatherstripping at doors and access panes is inadequate.	N1104.8.2	1312.1.1
18	Ducts and water pipe insulation is absent or insufficient.	N1105.2	1314.1
19	Attic and/or floor insulation is absent or insufficient.	Table N1104.1(1)	1312.2
20	Remove all debris in underfloor area.	R408.4	

#	MECHANICAL FINAL	ORSC	OMSC
1	Bathroom exhaust fans not functioning. Vents shall be exhausted directly to the outside.	M1506.4	Table 403.3
2	Ventilation openings (bird blocks) shall be protected with corrosion-resistant wire mesh, not >1/2" or <1/8" in any dimension.	R324.3.1.2	
3	Appliances located in a garage or carport shall be protected from impact by automobiles.	M1307.3.1	304.5 & 304.6 and Fig. 304.1
4	Water heaters shall be anchored or strapped to resist horizontal displacement due to earthquake motion. Strapping shall be at points within the upper one-third and lower one-third of the appliance's vertical dimensions. At the lower point, the strapping shall maintain a minimum distance of 4 inches above the controls	M1307.2	301.15
5	Appliances shall be installed with the clearances from unprotected combustible materials as indicated on the appliance label and in the manufacturer's installation instructions.	M1306.1	304.8
6	Installation of appliances shall conform to the conditions of their listing and label and the manufacturer's installation instructions. The manufacturer's operating and installation instructions shall remain attached to the appliance.	M1307.1	304.1
7	Condensate waste and drain line size shall be not less than 3/4-inch internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal.	M1411.3.2	
8	Condensate from all cooling coils or evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. Condensate shall not discharge into a street, alley or other areas so as to cause a nuisance.	M1411.3	
9	A listed shutoff valve shall be installed immediately ahead of each line pressure regulator.	M2420.4	
10	Air exhaust and intake openings that terminate outdoors shall be protected with corrosion-resistant screens, louvers or grilles having a minimum opening size of <u>1/4 inch and a maximum opening size of 1/2 inch in any dimension.</u>	R303.5	

PLUMBING

#	GROUNDWORK	ORSC	OPSC
1	No test on DWV system	P3012.0	712.0
2	No test on waterlines	P2909.4	609.4
3	Provide required grade, supports, bedding, on DWV system	P3008.0	708.0
4	Provide required cleanouts and clearances	P3007.4	707.4 & 707.0
5	Seal around pipe thru concrete	P2613.0	313.0
6	Test failed-leaks	P2610.0(water P2909.4 & waste/vents P3012.0)	712.1 & 609.4
7	System or portion of, below upstream manhole without a backwater valve.	P3010.0	710.0
8	Improper configuration and size of DWV piping and Y-fittings	P3006.1	706.1
9	Improper depth of water piping exiting building through foundation wall.	P2909.1	609.1
10	Provide required primer lines on floor drains/sinks	P3207.1	1007.1
11	Flat venting	P3105.3	
#	POST & BEAM	ORSC	OPSC
1	Provide required cleanouts and clearances	P3007.4	707.4, 707.0
2	Support DWV and/or waterlines system	Table P2614.1(1)	Table 3-2
3	Provide required grade on DWV system	P3008.0	708.0
4	Provide freeze protection for waterline below insulation	P2613.6	313.6
5	Provide nail plate protection	P2613.9	313.9
6	Provide foundation low point drain (Site Drain)	R405	1101.1
7	Test failed-leaks	P2610.0(water P2909.4 & waste/vents P3012.0)	712.1 & 609.4
8	Provide required thread sealant on CO plugs	P2616.1.1	316.1.1
9	Undersized water piping	P2910.0	610.0, table 6-5
10	Undersized DWV piping	Table P3003.1	Table 7-5
11	Under floor piping covered prior to inspection	OAR 918-785-0200	OAR 918-785-0200
12	Improper configuration of DWV piping.	P3006.1	706.1, 706.0
13	System or portion of, below upstream manhole without a backwater valve.	P3010.0	710.0
14	Improper depth of water line exiting building through foundation wall	P2909.1	609.1
#	ROUGH-IN / TOP OUT	ORSC	OPSC
1	No test on DWV system	P3012.0	712.0
2	No test on waterlines	P2909.4	609.4
3	Support DWV and/or waterlines	Table P2614.1(1)	Table 3-2
4	Provide required grade on DWV system	P3008.0	708.0
5	Insulate all pipes in unconditioned spaces	P2613.6	313.6
6	Repair as per structural code fix for over bored/over notched wood	P2613.11	313.11
7	Secure tub valve to structure	Per mfr's installation standards	Per manufacturers installation standards
8	Secure tub to structure	Per mfr's installation standards	Per manufacturers installation standards

9	Provide nail plate protection	P2613.9	313.9
10	Test failed -leaks	P2610.0(water P2909.4 & waste/vents P3012.0)	712
11	Install island sink loop vent per	P3108.0	909.0
12	Provide required cleanouts and clearances	P3007.4	707.4
13	Improper configuration of fittings	P3006.1	706.1
14	Undersized and number of cross sectional area of vent (s) through roof	P3104.1	904.1
15	Undersized water and DWV system	P2910.1/Table 3003.1	610.0/Table 7-5
16	Improper depth of water line exiting building through foundation wall		609.1
17	Improper cleanout location, installation or clearances	P3007.0	707.0
18	Any portion of system below upstream manhole without a backwater valve	P3010.0	710.0
19	Excessive horizontal lengths on vents	Table 3003.1	Table 7-5
20	Provide required pressure/temperature-balancing valves on fixtures	P2715.1	419.0
21	Improper spacing and clearances of fixtures	P2708.6	408.6
22	Provide approved hose bibs and or shut off valves	P2905.0	605.0
23	Ratproofing strainer: opening is not > 1/2" in least dimension	P2613.12	
24	Ratproofing seal: openings shall be closed and protected	P2613.12.2	
25	Combustion air – water heaters	P2810.8	
#	WATER SERVICE	ORSC	OPSC
1	Provide required cover on all points on waterline. Min 24"	P2909.1	609.1
2	Provide 18 gauge blue tracer wire on waterline	P2909.6.1	609.6.1
3	No test on water system	P2909.4	609.4
4	Waterline not correctly sized for building	P2910.0	610.0
5	Test failed-leaks	P2610.0(water P2909.4 & waste/vents P3012.0)	609.4
6	Expose piping for required inspection underground. See also OAR 918-785-0200(3)	P2615.3	315.4
7	If water service was used for electrical grounding, plastic piping may be used if another grounding system is installed & inspected	P2904.8	604.8
8	Lack of purple primer when required	P2616.1.6	316.1.6
9	Provide a pressure reducing valve	P2908.0	608.0
10	Plastic fittings, female	P2906.2.2	
#	BACKFLOW	ORSC	OPSC
1	Provide test results for backflow prevention assembly	P2903.4.2	603.3.3
2	Expose connection to potable waterline See also OAR 918-785-0200(3)	P2615.3	315.4
3	Provide required depth for backflow prevention device	P2909.1	609.1
4	Test failed	P2610.0(water P2909.4 & waste/vents P3012.0)	609.4
5	Provide required clearances per table	Table P2903.1	Table 6-3

#	RAIN DRAINS	ORSC	OPSC
1	Provide minimum 12" cover on all points of rain drains	P3018.3	718.3
2	Provide connection to under floor drain or footing drain	P3208.1	1101.1
3	Expose rain drains for required inspection. See also OAR 918-785-0200(3)	P2615.3	315.4
4	Improper point of disposal	P3208.1	1101.0
5	Unsupported lines. (case by case)	P2614.0	314.0
6	Improper size for roof area	Table 3208.2	Table 11-1 & 11-2
7	Improper connectors or adapters for joining dissimilar materials	P2611	311.0
8	Provide required cleanouts	P3208.10	1101.12
9	Backwater valve	P310.1?	
10	Basement walls waterproofed	R406.1, R406.2	
#	UNDERFLOOR DRAIN	ORSC	OPSC
1	Expose under floor drain connection to storm		1101.1
2	Remove debris from under floor drain		310.0
3	Lack of required backwater valve		710.0
4	Improper materials		311.0
5	Improper point of disposal		412.0
6	Y-fittings	P3105.3	
#	SANITARY SEWER/STORM	ORSC	OPSC
1	No test on sewer (sanitary)	P3023.0	723.0
2	Provide minimum 1/4" grade on sewer line	P3018.1	708.1
3	Proved 18 gauge green tracer wire on sanitary & storm	P3018.2	718.2
4	Expose sanitary/storm and connection to lateral for inspection See also OAR 918-785-0200(3)	P2615.4	315.4
5	Leak on sanitary sewer	P3023.0	712
6	Undersized line	P3208.1 & .2	Table 7-8/11-1/11-2
7	Provide required cleanouts	P3208.10	1101.12
8	Improper materials	P3015.1	715.1
9	Improper bedding	P3008.1	708.0
#	SHOWER PAN INSTALLATION	ORSC	OPSC
1	Approved materials installed to required heights	P2710.5	412.6
2	Liner not clamped properly with drain body	P2710.7	412.8
3	Provide required test	P2710.7.1	412.8.1
4	Provide required slope on sub base	P2710.7	412.4

#	FINAL	ORSC	OPSC
1	Seal and secure hose bibs	P2613.8	313.8
2	Cap unused rain drain risers	P2613.5	313.5
3	Connect downspouts to rain drain risers	P3208.9.2..	310.4
4	Strap water heater	P2810.5	507.2
5	Provide approved means to relieve closed system	P2908.3	608.3
6	Seal fixtures at wall or at floor	P2708.2	408.2
7	Hot and cold waters are crossed at	P2901.2	601.3
8	Provide access to pump motor for jetted tub	P2711.2	414.1
9	Temperature exceeds 120 deg. at tub/showers	P2715.0	419.0
10	Provide test results for all backflow prevention assemblies	P2903.4.2	603.3.3
11	Test failed - leaks	P2610.0(water P2909.4 & waste/vents P3012.0)	609.4
12	Expose clean out risers for sanitary/storm	P3019.0	719.3
13	Provide required thread sealant on CO plugs	P2616.1.1	316.1.1
14	Secure DW drain hose to underside of countertop	P3029.3	807.4
15	Secure dishwasher per manufactures instructions	P2708.3	408.3
16	Water pressure exceeds max. 80 PSI	P2908.2	608.2
17	Provide required anti-siphon devices	Table P2903.1	Table 6-2
18	Provide required elevations and protective barriers on water heater	P2810.3	507.6
19	Provide hot water in system	P2901.2	601.3
20	Improper radius fitting and configuration on trap arms	P3202 .3	1002.3
21	Provide primer valves where required	P3207.0	1007.1
22	Temperature/pressure relief valves improperly routed or terminated	P2908.5	608.5
23	Provide required expansion devices where required	P2908.3	608.3
24	Provide required shut-off valves	P2905.1	605.0
25	Hot & cold water lines crossed	P2712.0	
26	Hot water in tub max. is set at 120F	P2715.2	
27	Combustion air reqts for water heater	P2810.8	
28	Protect w/h from vehicle impact	P2810.3(2)	
29	Provide earthquake strapping	P2810.5	
30	Hose bib: shall have anti-siphon, frost proof	P2903.5.6	
31	Ext. yard hydrants be self-draining w/ backflow protection	P2903.5.6	
32	PEX tubing connection at least 18" to water heater	P2904.11.2	
33	Pressure relief valve to have automatic drain	P2908.4	
34	Cleanout caps / plugs	P3007.1	
35	Water heaters shall be 18" above floor level	P2810.1	

ELECTRICAL

#	GENERAL	2005 ORSC	2005 NEC
1	Fitting used as designed/listed	E36-300.15 E34-110.3(B)	300.15 110.3(B)
2	Disconnect/grounding electrodes, each building	E35-250.32	250.32
3	Grounding electrode system	E35-250.50 E35-250.52	250.50 250.52
4	Isolated neutral sub-panel	E35-250.142	250.142
5	Main/equip bonding jumper Sized/installed	E35-250.28 E35-250.102 E35-250.108	250.28 250.102 250.108
6	Main disconnect	E35-230.70 E35-230.71	230.70 230.71
7	Neutrals identified	E35-200.6 E35-200.7 E36-310.12(A)	200.6 200.7 310.12(A)
8	Service equipment and panel board clearances	E34-110.26	110.26
9	Service-entrance clearances	E35-230.24	230.24
10	Unused openings	E34-110.12(A) E36-312.5 E36-314.17(A)	110.12(A) 312.5 314.17(A)
11	Metal well casing	E35-250.52(A)(7) E35-50.112(M)	250.52(A)(7) 50.112
12	Good connections	E34-110.14	110.14
13	Remove paint under lugs	E34-110.12(C)	110.12(C)
14	Installation per listing	E34-110.3(B)	110.3(B)
15	Max breaker height	E35-240.24(A) E37-404.8	240.24(A) 404.8
16	Ampacity of OCPD	E35-230.90 E35-240.3	230.90 240.3
17	Burial depth outside conductors	E36-300.5	300.5
18	Fan boxes	E36-314.27 E37-422.18	314.27 422.18
19	Free conductor in box	E36-300.14	300.14
20	Listed fittings, cables, etc	E34-110.3(B)	110.3(B)
21	Limited energy wiring	E40-725.7 E41-800.6 E41-800.50	725.7 800.6 800.50
22	Small appliance calculations	E35-220.52(A)	220.52(A)
23	Splicing of cables	2003 IRC R313.1	ORS 479.270-300
#	ROUGH-IN / FRAMING	2005 ORSC	2005 NEC
1	Gas lines, metallic water lines, steel buildings not bonded	E35-250.104(A) & (B)	250.104(A) & (B)
2	Ground wires in boxes not made up with wire nut, crimps, or clips	E35-250.148	250.148
3	Insufficient receptacle outlets in kitchen and countertops	E35-210.52(B) (3) & (C)(1)-(2)- (3)-(4)-(5) & Figure E35- 210.52	210.52(B) (3) & (C)(1)- (2)-(3)-(4)-(5) & Figure E35-210.52

4	Sub-panels located in clothes closets are prohibited	E34-110.26(F)	110.26(F)
5	Non-metallic sheathed cable installed in bored holes closer than 1 ¹ / ₄ inch to edge of framing member does not have nail guards installed	E36-300.4(A)(1)	300.4(A)(1)
6	Non-metallic sheathed cables, installed in notches require 1/16" thick nail guards	E36-300.4(A)(2)	300.4(A)(2)
7	Adequate working clearances not provided around services and panelboards	E34-110.26(A) (1)(2)(3)	110.26(A) (1)(2)(3)
8	Aerial Service conductors and/or feeders do not have correct clearance above grade or driveways	E35-230.24(B)	230.24(B)
9	Nonmetallic sheathed cable not secured at correct intervals	E36-334.30	334.30
10	Receptacle outlet box spacing not arranged to meet requirements	E35-210.52(A) (1)(2)(3)	210.52(A) (1)(2)(3)
11	Incorrect outlet boxes used to support ceiling fans	E36-314.27(D)	314.27(D)
12	Lighting fixture boxes in closets do not have clearances to shelving	E37-410.8	410.8
13	Separate circuits not provided for receptacle serving the dishwasher, and garbage disposal	E37-422.62	422.62
14	Separate circuits not provided for receptacle serving the laundry receptacle outlets	E35-210.52(F)	210.52(F)
15	Box(es) not flush with combustible surfaces	E36-314.20	314.20
16	Box(es) not securely mounted	E36-300.11	300.11
17	NM cable sheathing cover does not extend into box at least 1/4"	E36-314.17(C)	314.17(C)
18	Box(es) required at all outlets and splices	E36-300.15	300.15
19	Box(es) not sized large enough for amount of conductors	E36-314.16	314.16
20	Service entrance conductors and/or feeders not sized large enough for demand loads of system	E35-220.1	220.1
21	Non-metallic cable not secured and protected within 6 feet of attic access	E36-334.23	334.23
22	Equipment located in attics and underfloor areas do not have light controlled by a switch which is located at access opening and a maintenance receptacle not provided within 20 feet of equipment	E35-210.70(A) (3)	210.70(A)(3)
23	Fire rated walls in duplexes not protected at electrical openings around boxes	E36-300.21	300.21
24	NM cable not secured above service panel when over 3' to top plate	E36.334.30	334.30
25	A minimum of 6" of free conductors not provided at box for device make-up	E36-300.14	300.14
26	Smoke detector boxes installed to close to air return(s) side wall ceilings and sloped ceilings	E34-110.3(B)	110.3(B)
27	Sheet metal screws used for grounding	E35-250.8	250.8
28	Bonding metal pipe, steel building	E35-250.104	250.104
29	Bonding raceways and enclosures	E35-250.92, .94, .96	250.92, .94, .96
30	Connectors installed/required	E36-312.5(C)	312.5(C)
31	Conductor amp. equal load	E35-210.11(B)	210.11(B)
32	Service entrance raceway/mast	E35-230.28	230.28
33	Bathroom receptacles/circuits	E35-210.52(D) E35-210.11(C)(3)	210.52(D) 210.11(C)(3)
34	Bond metal boxes	E35-250.148, E36-314.4	250.148 314.4
35	Box fill	E36-314.16	314.11(B)

36	Number of circuits for loads	E35-210.11(B)	210.11(B)
37	Sizing feeders	E35-215.2 E-36-T310.16	215.2 T310.16
38	Support and damage of NM cables	E36-334.15 E36-334.30	334.15 334.30
39	Wall receptacles in hallway	E35-210.52(H)	210.52(H)
40	Wall receptacles	E35-210.52(A)(2)	210.52(A)(2)
41	Wiring method approved	E34-110.8 E35-230.43	110.8 230.43
42	Spacing of receptacles	E35-210.52	210.52
#	FINAL	2005 ORSC	2005 NEC
1	Final inspection not requested	E34-110.1	110.1
2	Circuits not labeled and identified in Services and panelboards	E37-408.4	408.4
3	Services, panelboards, and equipment not securely fastened	E37-408.3(A)(1)	408.3(A)
4	Lock-nuts loose or missing	E36-314.17(A), (B),(C)	314.17(A),(B),(C)
5	Grounded conductor (neutral) not identified at terminals	E35-200.6	200.6
6	Panelboard (sub-panel) grounded conductor (neutral) not isolated	E37-408.40	408.40
7	Unused openings in boxes, panelboards, and services not plugged	E37-408.7	408.7
8	Over-current devices not rated for the conductor ampacity	E35-240.4	240.4
9	Cover-plates on plugs and switches missing	E34-110.27	110.27
10	Receptacles with incorrect polarity	E35-200.11	200.11
11	Receptacles have open ground	E35-250.138	250.138
12	Terminal can only have one conductor at neutral bars and circuit breakers. Ground bars may have multiple wires/terminal.	E37-408.41 E34-110.3	408.41 110.3
13	Service and Panelboards internal parts damaged or contaminated during the construction process of the house	E34-110.12(C)	110.12(C)
14	Receptacles in GFCI locations; bathrooms, garages, outdoors, crawl space and basements, hydro-tubs, and kitchen and bar sinks not functioning	E35-210.8	210.8
15	Arc-fault circuit interrupters not provided for bedroom circuits supplying outlets	E35-210.12(B)	210.12
16	Florescent lighting fixtures not grounded	E37-410.18(A)	410.18(A)
17	Wood soffit ceilings, and cabinet panels under sinks have combustibles inside fixtures and enclosures	E36-314.20	314.20
18	Branch circuits conductors and over-current devices serving water heaters do not allow for 125% of the nameplate rating of the appliance	E37-422.10 & E37-422.13	422.10 422.13
19	Listed/labeled equipment	E34-110.3(B)	110.3(B)
20	Arc-fault devices	E35-210.12	210.12
21	Bonding/grounding switches	E35-250.147 E37-404.9	250.147 404.9
22	Closet lights	E37-410.8	410.8
23	Hydromassage tub	E-34-110.3(B) E-39-680.70 E39-680.7	110.3(B) 680.70 680.7
24	Kitchen appliance receptacles/cords	E37-422.16	422.16

25	Kitchen countertops/receptacles	E35-210.52 E35-220.52	210.52 220.52
26	Laundry circuit	E35-210.52 E35-220.52	210.52 220.52
27	Light switch/stairs	E35-210.70(2)	210.70(2)
28	Lighting outlets	E35-210.70(A)	210.70(A)
29	Smoke detectors	ORS 479.270-300	IRC R313.1
30	Back-fed devices	E37-408.36(F)	408.36(F)
31	Bonding of water and gas piping	E35-250.104	250.104
32	Clearances panel/service equipment	E34-110.26	110.26
33	Energized service/complete	E34-110.2 E34-110.7 E34-110.12	110.2 110.7 110.12
34	GEC/termination accessible approved	E35-250.68 E35-250.70	250.68 250.70
35	Identify service-disconnect	E34-110.22 E35-230.70	110.22 230.70(B)
36	Panel directory	E34-110.22	110.22
37	Appliance termination	E37-422.16	422.16
38	Closet lights	E37-410.8	410.8
39	Maintaining fire rating/separation	E36-300.21	300.21
40	Flush/recessed fixtures	E37-410.64 -.72	410.64 – 410.72
41	GFCI protection	E35-210.8	210.8
42	AFCI protection	E35-210.12	210.12
43	Lighting/switching outlets	E35-210.70	210.70
44	Combustible walls/ceilings box setback	E36-314.20	314.20
45	Polarity of connections	E35-200.11	200.11
46	Rating/location of panel/OCPD	E35-240.3 E35-240.4 E35-240.21	240.3 240.4 240.21
47	Receptacles wet/damp locations	E37-406.8	406.8
48	1/8" space around boxes	E36-314.21	314.21
49	Track lighting	E37-410.100 – 410.105	410.100 – 410.105
50	Appliance breaker lockouts	E37-422.31(B)	422.31(B)
51	2 circuits min. per kitchen countertop area	E35-210.52(B)(3)	210.52(B)(3)
#	COMMERCIAL		
1	Size of GEC	E35-210.5(B)	210.5(B)
2	Size of EGC	E35-250.122	250.122
3	EGC identifier	E35-210.5(B)	210.5(B)
4	EGC bar for sub-panel	E37-408.40	408.40
5	OCPD/Conductor-ampacity	E35-230.90 E35-240.3	230.90 240.3
5	Conduit as support	E36-300.11(B)	300.11(B)
6	MC cable support	E36-300.11(B)	300.11(B)
7	Bushings required	E36-300.16(B)	300.16(B)
8	RMC support	E36-344.30	344.30
9	EMT support	E36-358.30	358.30
10	FMC support	E36-348.30	348.30