

Oregon Building Officials Association



**2014 Oregon Building Officials Association
Cite-It Write-it Building Inspector's Checklist
for
2014 Oregon Residential and 2014 Commercial Codes
Structural / Mechanical / ADA Guide
Radon Gas Mitigation ©**

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Purpose

In response to Oregon administrative rule OAR 918-098-1900, which requires building inspectors to cite Oregon Specialty Code sections, Oregon Administrative rules (OAR'S) or statutes (ORS'S) whenever a re-inspection is required, this OBOA Inspector's Checklist was created. It is a handy time saving reference guide to residential and commercial code sections covering common code issues found at building inspections. It is arranged in alphabetical order by code items and by topical headings. An additional section has been added to cover mechanical code items, a general guide to accessibility requirements, and Radon Gas requirements. Additional line spaces have been provided for inspector's notes to be added if desired. It is right hand formatted and bold printed for easy field use.

The checklist may also be useful to contractors and the general public. Customers should note that items listed are not all the possible code issues that might be found at building inspections. Also items listed are situational as to being required for each individual project.

The checklist is based on the 2014 Oregon Residential Specialty Code (ORSC) for 1 & 2 family inspections, the 2014 Oregon Structural Specialty Code (OSSC) and 2014 Oregon Energy Efficiency Specialty (OEESC) for commercial inspections, and the 2014 Oregon Mechanical Specialty Code (OMSC) for commercial mechanical inspections, and the 2009 ICC A117.1 Accessible and Usable Buildings and Facilities standard.

This Inspector's Checklist was conceived, prepared, and copyrighted by Frank Scheer, Building Inspector and member of OBOA Standards Committee.

This document was designed to be a dynamic tool that will be updated and added to as codes change and new conditions arise. Other inspectors are encouraged to correct for themselves where necessary, add their notes, and work with it as needed.

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FOOTINGS / FOUNDATIONS	2014 OREGON ORSC (One & Two Family)	2014 OREGON OSSC (Commercial)
Approval required (work done beyond required inspections)	R 109.4	110.6
Approved plans on job site	R 106.3.1	107.3.1
Authority of Building Official (ORS 455.150)	Section R 104	Section 104
Authority of Building Inspector (ORS 455.715)	R 202 "Building Official"	103.3
Basement foundation wall waterproofing / damp proofing	Section R 406	Section 1805
Building Code, State law (ORS 455.020)		
Building Permit posted	R 105.7	105.7
Building Permit required	Section R 105	Section 105
Building strength for vertical / lateral loads	R 301.1	101.3, 1604.2
Changes in plans, not approved	R 106.4	107.4
Electrical / Plumbing / Mechanical Permit required	Section R 105	OESC, OPSC, OMSC 106
Engineering design for foundation when required	R 404.1.3	107.1
Engineering design when required	R 301.1.3	107.1

FOOTINGS / FOUNDATIONS	2014 OREGON ORSC	2014 OREGON OSSC
Flood elevation certificate when required	R 109.1.3	Section 1612, 110.3.3,
Flood resistant construction when required	Section R 322	Section 1612
Footing / foundation drains	Section R 405	Section 1805.4.2
Foundation and retaining wall requirements, details	Sect R 403, R 404, Fig403.1	Section 1807
Foundation vents	R 408.1-2	1203.3
Geotech report when required	Section R 401.4	Section 1803
Hold downs / rebar in place @ inspection	R 109.1.1	110.3.1
Inspection request / access / ready	R 109.1	110.5
Inspection sign-off card posted	R 117.1	105.7
Low point drain or sump pump required	R 408.5	1804.7
Manufacturer installation instructions available	R 106.1.2	
Minimum footing depth	R 403.1.5, Tab R301.2(1)	1809.4
Prescriptive footing / wall rebar	Sections R 403, R 404	Section 1807
Presumed approval of code violations	R 109.1	110.1
Rebar clearance (ACI 318 Sect 7.7)	Sections R 403.5.2, R404.1	Table 1808.8.2
Masonry Fireplace Chimney Footings	Table R 1001.1	2113.2

FOOTINGS / FOUNDATIONS	2014 ORSC	2014 OSSC
Referenced codes / standards	R 102.4, Chapter 44	Section 102, Chapter 35
Remove roots from under footing site	R 403.1	3304.1
Remove wood forms from ground	R 408.4	3304.1
Set backs from ascending / descending slopes	Sect R 403.1.9, Fig403.1.9.1	Section 1808.7
Set backs, location on lot	Table R 302.1, R 109.1.5	107.2.5
Slab edge insulation	N 1101.4.7, Tab 1101.1 (1)	OEESC Tab 502.1.1 (1)
Stop Work Order	Section R 114	Section 115
Strength / Quality of Concrete	Sect R 402.2,, Tab 402.2	Section 1904, Tab 1904.2
Structural fill	R 401.2	1804.5
Tests or Special Inspections when required	R 104.11.1	104.11.2, Section 1704
Town House Construction Details	Section R 302.2-4.2.1	
Ufer Ground Details (OESC 250.52. (3))	R 403.1.7	In OESC
Under-slab fill / site prep / vapor barrier	Section R 506	Section 1907

POST & BEAM	2014 ORSC	2014 OSSC
Anchor bolts, sill plates	Section R 403.1.8	2308.3.2
Anchor bolt washers 3 x 3 x .229 inches	R 602.11.1	2308.3.2
Beam / joist clearance from ground	R 317.1 # 1	2304.11.2.1
Beams 1/2 inch clearance from concrete (tops, sides, ends)	R 317.1 # 4	2304.11.2.5
Bearing of floor members	R 502.6	2308.8.4.4.2
Boring / notching sawn lumber floor members	R 502.8.1 Figure R 502.8	2308.4.2.4
Cutting / notching / drilling engineered products	R 502.8.2	2308.4.2.5
Galvanized fasteners for treated wood	Section R 317.3	2304.9.5.1
Positive connections post / beam	R 502.9, Figure R 502.9	2304.9.7
Protection from wood decay	Section R 317	Section 2304.11
Removal of under-floor debris / roots / forms	R 408.4	3304.1
Under-floor ground cover (vapor barrier)	N 1104.9.2, R 408.1	OEESC Res. 404.9.2
Under-floor access	R 408.3	1209.1
Vent baffles for under-floor insulation obstruction (purpose of ventilation)	R 408.1	Sect 1203.3

SHEAR WALLS	2014 ORSC	2014 OSSC
Braced panel blocking required	R 602, R 602.10.8	2308.6.4
Braced wall line anchorage	Section R 602.11	2308.6.7.1.2, Tab2304.9.2(10(2))
Fastener schedule, for prescriptive braced panels	Table R 602.3 (1)	Table 2304.9.1
Galvanized nails into treated woods sill plate	R 317.3.1	Section 2304.9.5
Hold-downs / straps installed per plans or engineering	R 106.4	110.3.1
Prescriptive wall bracing requirements / details	Section R 602.10	Section 2308.6
Shear wall nailing per engineering	R 301.1	1604.2
Shear wall nails over driven	R 601.2, Tab R 602.3 (1)	2304.9.2
Wall bracing and stone / masonry veneer	Section 602.12	
ROOF NAILING	2014 ORSC	2014 OSSC
Fastener schedule	Table R 602.3 (1)	Table 2304.9.1
Flashing	Section R 903.2, R 905.3.8	1507.9.9
Roof boundary / panel nailing per engineering	R 106.4	1604.2

WALLS EXTERIOR	2014 ORSC	2014 OSSC
Anchorage and support of masonry veneer	Section R 703.7.4	Section 1405.6-10
Corrosion resistant nails to attach siding	R 703.4, Table 703.4	1405.17
EIFS systems in general	Section R 703.9	Section 1408
Flashing required	R 703.8	1405.4
Weather resistive barrier	Section R 703	Section 1404
Exterior wall covering water drainage	Section R 703	
FRAMING	2014 ORSC	2014 OSSC
Attic access	R 807.1	1209.2
Attic vent baffles	N 1104.2.1, R 806.3	1203.2
Attic ventilation required	Section R 806	Section 1203.2
Bathroom / spa require exhaust fan	R 303.3.1, M1507	1203.4.2.1
Bearing for rafters / ceiling joists	R 802.6	2308. 7.3.1
Boring / notches of studs	R 602.6, Figs 602.6 (1-2)	2308.5.10

FRAMING	2014 ORSC	2014 OSSC
Boring / notches of engineered wood products	Trusses: R 802.7.2 Floors: R 502.8.2	2308.7.9 2308.4.3
Boring / notches of sawn lumber of structural floor members	R 502.8.1	2308.4.2.4
Bearing of floor joists / stringers	R 502.6	2308.4.2.2
Boring / notches of rafters / ceiling joists	R 802.7.1	2308.7.4
Ceiling joist / rafter connections / rafter ties	R 802.3.1	2308.7.3.1
Bedroom egress windows	Sects R 310, R 612.2-4.2	Section 1029
Energy code labeling for glass windows	N1104.4.1, TabN 1101.1(1)	OEESC 303.1.3
Fastener schedule	Table R 602.3 (1)	Table 2304.9.1
Flame spread of "FS 25" insulation facing	R 302.10.1	Section 720
Fire blocking / draft stopping	Section R 302.11-12	Section 718
Guards (guardrails)	Section R 312	Section 1013
Handrails	Section R 311.7.7	Section 1012
Hold-down nuts tightened	R 301.1	1604.2
Joists blocked over supports, commercial jobs		2308.4.2.3
Lumber grade mark identification (floors, walls, roofs)	R 502.1, R 602.1, R802.1	Section 2303.1

FRAMING	2014 ORSC	2014 OSSC
Masonry chimney fire blocking	R 1003.19	2113.20
Masonry chimney termination above roof	R 1003.9	2113.9
Masonry fireplace / chimney details	Sect R 1001,1003, fig1001.1	Sections 2111, 2113
Masonry fireplace clearances to framing	R 1001.11, Fig 1003.18	2111.11, 2113.19
Moisture content of framing wood not more than 19%	R 109.1.4.1	2303.1.8.2
Plumbing / Electrical rough-in approval required	R 109.1.4	110.3.4
Positive connections (general)	R 301.1	2304.9.7
Protection from wood decay	Section R 317	Section 2304.11
Stairway headroom clearance 80"	R 311.7.2	1009.5
Stairs / treads / risers / winders	Section R 311.7	Section 1009.5
Safety glazing (hazardous locations)	Section R 308.4	Section 2406
Top plate straps	R 602.6.1, Fig 602.6.1	2308.5.8
Truss design engineering	R 802.10.1	2303.4.4.1.1
Truss bracing	R 802.10.3	2303.4.1.1.2
Truss tie-down clips	R 802.11, Table R 802.11	2308.7.5
Trusses shall not be cut / notched without engineer approval	R 802.10.4	2303.4.5
Window Sill 24" or more off floor for window fall protection	Section R 612	36 inches OSSC 1013.8
Window Sill 44" maximum off floor	R 310.1	1029.3
Townhouse Construction Details	Sects R 302.2-10, 302.3.21	

INSULATION	2014 ORSC	2014 OEESC
Insulation clearances	N 1104.2.4-5	2014 OMSC 802.8
Duct insulation R Requirements	Table N 1101.1(1)	2014 OEESC 505.2.7
Information on plans / specifications	N 1101.4	2014 OEESC 103.1
Installed to manufacturers listing	N 1104.2	2014 OEESC 303.2
Prescriptive envelope requirements for insulation	Table N 1101.1(1)	2014 OEESC Tab 502.1(1)
Vapor barrier required	Section N 1104.9	2014 OSSC Section 1403
Window / door / wires / pipe sealing	N 1104.8.2	2014 OEESC 502.4.2
Marking / identification of insulating materials / systems	N 1104.2	2014 OEESC Section 303
Reference Standards for 2014 OEESC in OEESC Chap 6		
FINAL	2014 ORSC	2014 OSSC
Address, permanent, posted	R 319	501.2
Attic access	R 807.1	1209.2
Attic / crawl insulation installed, Certificate of Insulation	Table N 1101.1 (1)	OEESC Table 502.1(1)
Automatic garage door openers installed to listing	R 309.4	406.3.5

FINAL	2014 ORSC	2014 OSSC
Bath / spa fan timer switch or de-humidistat required	M 1507.4	
Bedroom egress windows	Section R 310	Section 1029
Crawl space access	R 408.3	1209.1
Decks / stairs/ landings exterior fastening to structure	R 311.5.1	1604.8.3
Duct penetration into garage	R 302.5.2	406.3.4 #2
Drainage away from foundation	R 401.3	1804.3
Direct exit into garage from sleeping room prohibited	R 302.5.1	406.3.4 #1
Egress door locks	R 311.2	Section 1008.1.9
Elevation of ignition source 18 inches above garage floor	M 1307.3	OMSC 304.3, C 305.3
Fire protection systems (sprinklers)	ORSC Appendix T	OSSC Chapter 9
Flame spread ratings of interior finishes	Section R302.9	OSSC Sect 803, Table 803.9
Four inch opening limitation for open risers	R 311.7.4.3	1009.7.5.3 Exception 1.
Furnace / hot water heater vehicle impact protection	M 1307.3.1, Fig M 1307.1	OMSC 303.4,Figs 304.1,C303.1
Garage / dwelling separation (doors / sheet rock details)	R 302.5-6, Table 302.6	406.3.4 # 1-2
Guards (guardrail details)	Section R 312	Section 1013
Gutters / down spouts required	R 801.4	Section 1503.4.1
Handrail grip size	R 311.7.7.3	Section 1012.3
Handrail termination / continuity / clearance / return ends	R 311.7.7.2	Section 1012
Hot water heater strapped	M 1307.2, R 301.2.2.3.7	OMSC 301.14

FINAL	2014 ORSC	2014 OSSC
Insulate underfloor access	Table N 1101.1(1)	OEESC 502.2-.5
Landings at doors	Section R 311.3	Section 1008.1.5
Landings at stairs	R 311.7.5	1009.8
Ramp details	Section R 311.8	Section 1010
Removal of underfloor debris	R 408.4	3304.1
Smoke alarms and carbon monoxide alarms	Sections R 314, R 315	Sections 907.2.11 , 9072.11
Stairs / treads / risers / winders	Section R 311.7.4	Section 1009
Stair guardrail triangle opening: 6 inch sphere	R 312.3 Exception 1	1013.4 Exception 2
Seal gaps in exterior / interior walls	N 1104.8.2	OEESC 502.42
6 inch clearance, siding to ground	R 317.1 # 5	2304.11.2.6
Under stair sheet rock protection	R 302.7	1009. 6.3-.4
Uncertified electrical products in Oregon ORS 479.610		
Uncertified plumbing products in Oregon ORS 447.156		
10 year batteries for smoke alarms, battery powered only	ORS 479.297	
Vapor barrier on ground in crawlspace	N 1104.9.2	1203.3.2 Exceptions 2-3
Window fall prevention devices	Section R 612	1013.8.1, 1029.2

MECHANICAL	OREGON 2014 ORSC / Fuel Gas CHAP 24 "G" (One & Two Family)	OREGON 2014 OMSC/Appx "C" Fuel gas (Commercial)
Appliance access for inspection	M 1305.1	107.2.2
Appliance clearance to combustible materials	Sect M 1306, Tab 1306.1-2	304.8, C 305.8
Appliance conversion to LP-Gas	M 1304.1	301.9
Appliance flex gas connectors	Section G 2422	Section C 411
Appliance access (general)	Section M 1305	Section 306
Appliance protection from vehicle impact	M 1307.3.1, Fig M 1307.1	303.4, Fig 304.1, C 303.1
Auxiliary / secondary condensate drain (drain pans)	M 1411.3.1	Section 307, Tab 307.2.2
Clothes dryer duct protective shield plates	M1502.5	504.6.7
Clothes dryer make-up air	M 1502.7	504.5
Clothes dryer exhaust length	M1502.4, Tab1502.4.4.1	Sect 504.6.4.1, Tab 504.6.4.1
Clothes dryer exhaust to outdoors / back draft damper	M 1502.3	504.4
Clothes dryer flex ducts not in concealed construction	M 1502.4.3	504.6.3
Commercial range in residential dwelling units		917.2
Condensate disposal to approved locations	M 1411.3	307.2.1
Flood resistant installation	M 1301.1.1, R 322.1.6	301.15

MECHANICAL	OREGON 2014 ORSC / Fuel Gas CHAP 24 "G" (One & Two Family)	OREGON 2014 OMSC/Appx "C" Fuel gas (Commercial)
Gas pipe unions / fittings concealed spaces	G 2415.3	C 404.5
Gas piping supports	Section M 1309,G2418.2 Table M 1309.4	Table C 415.1
Gas pipe repairs / additions: soap suds test for leaks	G 2417.1.2	C 406.1.2-3
Gas pipe pressure test	G 2417.4.1	C 406.4.1
Gas pipe sizing	Section G 2413	Section C 402
Gas piping in trench # 18 tracer wire	G 2415.3	C 404.17.3
Gas pipe penetration of underground walls prohibited	G 2415.4	C 404.6
Gas piping clearance above roof / ground 3 ½"	G 2415.7	C 404.9
Gas shut off valves	Section G 2420	Section C 409
Gas pipe minimum burial depth 18" and protection	G 2415.9	12 inches burial C 404.12
Gas Piping on continuous firm support in trench	G 2415.11	C 404.13
Ground loop heat pump piping test: 100 psi / 30 minutes with water	M 2105.1	1208.1.1-.2
Heat pump unit 3 inches supported off ground on slab	M 1403.2	304.10, C305.7
Hydronic piping test: 100 psi / 15 minutes, with water	M 2101.10	1208.1

MECHANICAL	OREGON 2014 ORSC / Fuel Gas CHAP 24 "G" (One & Two Family)	OREGON 2014 OMSC/Appx "C" Fuel gas (Commercial)
Install to listing and mfg's installation instructions	M 1307.1, G 2408.1	304.1, C 305.1
LP-gas installations (NFPA 58)	G 2414.6.2	301.9, C 403.5.2
LP-Gas Piping: Licensed plumber exempt or works for company with license: LP-gas installer license, state fire marshal ORS 480.432 (1.-7.)		
Manufacturer's installation instructions available	M 1307.1, R 106.1.2	304.1, C 305.1
Mechanical permit required	R 105.1	Sect 106, C 101
Mechanical plans on job-site		106.4.6
Microwave oven over cooking range	M 1504.1	917.3
Overhead exhaust hoods for broilers / clearances	M 1505.1	Section C 623.5
Pressure regulators	Section G 2421	Section C 410
Prohibited gas appliance locations	Section G 2406	Sections 303.3, C 303.3
Protection of gas piping: nail plates	M 1308.2	C 404.7
Range hoods: domestic	Section M 1503	Section 505
Ready for mechanical inspection	R 109.3	107.2.2
Referenced / codes / standards for mechanical	R 102.4, Chapter 44	Sect 102.8, Chap 15, Gas Code Section C-8 pages 123-130

MECHANICAL	OREGON 2014 ORSC / Fuel Gas CHAP 24 "G" (One & Two	OREGON 2014 OMSC/Appx "C" Fuel gas (Commercial)
Sediment traps (drip-legs)	Sect G 2419	Sect C 408
Used wood stoves: OAR 340-262-0020	Pages 13-5 and 13-6	Sect 928
Ventilation air balance report		403.7
Other pertinent mechanical code subjects		
Special fuel burning equipment	ORSC Chapter 19	OMSC Chapter 9
Special Piping / Storage Systems	ORSC Chapter 20	OMSC Chapter 13
Hydronic Piping	ORSC Chapter 21	OMSC Chapter 12
Boilers and hot water heaters	ORSC Chapter 20	OMSC Chapter 10
Commercial Range Hoods		OMSC Sects 506-508
Solar systems	ORSC Chapter 23	OMSC Chapter 14
2014 Oregon Solar Installation Specialty Code (OSISC)		
COMBUSTION AIR		
Air supply (combustion, ventilation, dilution air)	M 1701.1, Sect G 2407	Section C 304
All air from inside building	Section G 2407.5	Section C 304.5
All air from outside building	Section G 2407.6	Section C 304.6
Combined outside / inside air	Section G 2407.7	Section C 304.7

COMBUSTION AIR		
Opening area for louvers: percentage for metal / wood	G 2407.10	C 304.10
Prohibited sources of combustion air supply	G 2407.12	C 304.12
Room too small: 50 cu ft / 1000 BTU / h	G 2407.5.1	C 304.5.1
DUCTS:	2014 ORSC / Fuel Gas Chapter 24 "G"	2014 OMSC / Appx "C"
Air duct sealing UL 181 tape	M 1601.4.1.3-4	Section 603.9.1
Building cavities used for ducts prohibited	M 1601.1.1.1-2	602.3
Ducts protected from impact damage		603.15
Duct separation from earth 4 inches	M1601.4.8, exc 1. (1"	603.14
Exhaust duct sizing	Table M 1507.4	
Exhaust duct termination	M 1501.1	Section 501
Factory made air duct locations prohibited	M 1601.4.7	Section 603.6
Metal duct supports	M 1601.4.4	Section 603
Outdoor air inlet screen protection	R 303.5, M 1602.3	401.5,
Prohibited sources of outside ventilation air supply	R 303.4.1, M 1602.2	401.4
Return Air	Sect M 1602	
2 inches concrete around / under plenum in concrete slab	M 1601.1.2	603.8

GAS VENTS:	2014 ORSC / Fuel Gas Chapter 24 "G"	2014 OMSC / APPX "C"
Clearances for vent connectors	Table G 2427.10.5	Tables 803.10.6, C 503.10.5
Enclosing of venting system to avoid damage / contact	M 1801.1.1	
Insulation attic shield	G 2426.4, N1104.2.4	802.8, C 502.4
Single wall connectors in unconditioned spaces	G 2427.10.2.2	C 503.10.2.2
Single wall vent installation details	Sect G 2427.7, f G2427.5.3	Section C503.7.2
Sizing of "B" vent systems	Section G 2428	Section C 504
Support of vents	M 1801.7, G 2426.6	802.7, C 502.6
Type of venting system to be used	Table G 2427.4	Table C 503.4
Vent termination above roof	G 2427.6.3, Tab G 2427.6.3	C 503.6.4, Fig C 506.6.4
Vent termination for direct vents (not adopted, guide only)	ORSC App x "C"	C 503.8, appx "C-C"

CHIMNEYS AND VENTS:	2014 ORSC / Fuel Gas Chapter 24 "G"	2014 OMSC / Appx "C"
Frame soffit of factory built chimneys / venting systems	M 1801.1.1	
"L" vent connectors clearance	Table M 1803.3.4	Table 803.10.6
'L" vent roof termination	M 1804.2.4	802.5
"L" vent insulation shield	G 2426.4, N 1104.2.4	802.8
Unused openings to be sealed	M 1801.10	801.8, C 501.5
Venting required	M 1801.1	801.2, C 501.2

GENERAL GUIDE TO ACCESSIBILITY WITH OREGON 2014 OSSC CHAPTER 11 AND ICC A117.1-2009
OSSC Section 1101: General and Oregon Amendments to ICC A117.1-2009
OSSC Section 1102: Definitions
OSSC Section 1103: Scoping Requirements
OSSC Section 1104: Accessible Route
OSSC Section 1105: Accessible Entrances
OSSC Section 1106: Parking and Passenger Loading Facilities: Parking Spaces, Signs, Curb Cuts, Figs 1 - 10
OSSC Section 1107: A and B Dwelling / Sleeping Units and in various occupancies, exceptions, Tab 1107.6.1.1 A and B Dwelling / Sleeping Units Details to be found in A117.1 Chapter 10.
OSSC Section 1108: Special Occupancies
OSSC Section 1109: Other Features and Facilities
OSSC Section 1110: Signage, Figs 1-10
OSSC Section 1111: Clustered Mailboxes
OTHER 2010 OSSC SECTIONS AFFECTING ACCESSIBILITY
Accessible Egress: OSSC Section 1007
Accessibility for Existing Buildings: OSSC Section 3411

ACCESSIBILITY GENERAL REQUIREMENTS: ICC A117.1-2009 AND SOME OSSC SECTIONS
Purpose of Accessibility: A117.1 Section 101 and OSSC 1101 ORS 447.220 / 447.231
Referenced Standards: A117.1 Section 105
Alternative Alternatives and Methods: OSSC 1101.2.1 and A117.1 Section 103
Waivers and Modifications: OSSC 1101.3 and ORS 447.250
Definitions: OSSC Section 1102, and A117.1 Section 106
ACCESSIBILITY REQUIREMENTS AND DETAILS
Parking and Passenger Facilities and Signs: OSSC 1106, Tab 1106.1, Figs 1-10, A117.1 Sections 502-503, Fig 503.3, Note that Sections 502.1, 502.4.4.2, Figs 502.2 and 502.4 are Oregon Deleted and Replaced by OSSC Section 1101.2.7 and 1101.2.8 and Figs 1-10
Detectable Warnings at Raised Crossings: A117.1 Section 406.12, Note that Section 406.12 is Oregon Deleted in OSSC 1101.2.2.6
Curb Ramps: OSSC 11, Fig 308J, and A117.1 Section 406, Figs 406.3 and 406.10
Accessible Route: OSSC Section 1104 and A117.1 Sections 402 - 406
Accessible Route Passing Space, Width, Clear Width at Turns: A117.1, Sects 403.5.1, 403.5.2, Figs 403.5, 403.5.1
Accessible Route Platform Wheel Chair Lifts: OSSC Section 1109.8 Items 1-10. To be installed to Oregon Elevator Code, Accessible Route Platform Wheel Chair Lifts in Existing Structures: OSSC Section 3411.8.3
Walking Surfaces: A117.1 Section 403, Also see Changes in Level, Section 303

ACCESSIBILITY REQUIREMENTS AND DETAILS
Ramps: A117.1 Section 405, Table 405.2, Figs 405.7, 405.9, Existing Structures: OSSC Section 3411.8.5, Table 3411.8.5
Accessible Entrances: OSSC 1105, A117.1 Section 402, A and B Type Dwelling Units Sections: 1003.2, and 1004.2
Doors / Doorway Details: A117.1 Section 404, Tables 404.2.3.2, 404.2.3.3, Figs 404.2.2, 404.2.3.1, 404.2.3.2, 404.2.3.3, 404.2.3.4, 404.2.5. A & B Dwelling Units: Sections 1003.5, 1004.5
Door Opening Force: Note: A117.1 Section 404.2.8 is Oregon Deleted and Replaced with OSSC Section 1101.2.2.5
Door Hardware and Closers: A117.1 Sections 404.2.6, 404.2.7
Stairways: A117.1 Section 504, Figs 504.2, 504.5, For Accessible Egress: OSSC Section 1007.3
Handrails: A117.1 Section 505, Figs 505.4, 505.5, 505.7, 505.10.1, 505.10.2, 505.10.3
Floor Surfaces: A117.1 Section 302.1-.2, Figs 302.2, 302.3, 303.2
Changes in Level: A117.1 Section 303, Figs 303.2, 303.3, Type B Dwelling Units Section 1004.4.2
Protruding Objects and Security Barriers: A117.1 Section 307, Figs 307.2, 307.3, 307.4, OSSC Section 1104.7
Turning Spaces: A117.1 Section 304.3-.4, Fig 304.3
Clear Floor Space: A117.1 Section 305, Figs 305.3, 305.5, 305.7
Knee and Toe Clearances: A117.1 Section 306, Figs 306.2, 306.3
Reach Ranges, Forward, High, Side-Unobstructed and Obstructed: A117.1 Section 308, Figs 308.2.1, 308.2.2, 308.3.1, 308.3.2
Operable Parts: OSSC Section 1109.13, A117.1 Section 309, Type A & B Dwelling Units Sections 1002.9, 1003.9, 1004.9

PLUMBING ELEMENTS AND FACILITIES
Toilet and Bathing Rooms: OSSC Section 1109.2, A117.1 Chapter 6
Clearances: A117.1 Section 603.2
Water Closets: A117.1 Section 604, Figs 604.2, 604.3, 604.4, 604.5.1, 604.5.2, 604.5.7, 604.9.2
Wheel Chair Accessible Compartments: OSSC Section 1109.2.2, A117.1 Section 604.9-.11, Figs 604.9, 604.9.3.1, 604.10-11
Ambulatory Accessible Compartments: A117.1 Section 604.9-.11, Fig 604.10
Coat Hooks and Shelves within Toilet Compartments: OSSC Section 1109.9.2, A117.1 Section 604.8
Children's Water Closets: A117.1 Section 604.10, Figs 604.11.2, 604.11.4, 604.11.7
Water Closets in Type A & B Dwelling / Sleeping Units: A117.1 Sections 1003.11, Figs 1003.10.2.4, 1004.11.1 ,
Lavatories / Sinks: OSSC Section 1109.2.3, 1109.3 and A117.1 Section 606, Fig 606.3
Lavatories / Sinks in Type A & B Dwelling / Sleeping Units: A117.1 Sections 1003.7.2, 1004.11.3.1.1, Fig 1004.3.1.1
Exposed Pipes and Surfaces: A117.1 Section 606.6
Operable Parts: Towel Dispensers and Hand Dryers (Reach Limits): A117.1 Section: 606.5,
Drinking Fountains: OSSC Section: 1109.5, A117.1 Section: 602, Fig 602.2-.5
Urinals: A117.1 Section 605, Fig 605.2
Bathtubs: A117.1 Section 607, Figs 607.2 607.4.1-2, 607.5, Bathtubs in Type A Dwelling Units: Section 1003.11.2.5.1, figs 1003.11.2-5, Type B Dwelling Units: Section 1004.11.3.1.3, Figs 1004.11.3.1.3.1, 1004.11.3.1.3.2, 1004.11.3.1.3.3, and 1004.11.3.2.3.1

PLUMBING ELEMENTS AND FACILITIES
Showers: A117.1 Section 608, Figs 608.2.1, 608.2.2, 608.2.3, 608.3.1, 608.3.2, 608.3.3, 608.4.1, 608.4.2, 608.4.3 Type A Dwelling Sleeping Unit Section A117.1 Section 1003, Type B Dwelling Sleeping Units: A117.1 Section 1004.
Bathtub / Shower Seats: A117.1 Section 610, Figs 610.2, 610.3.1, 610.3.2 Type A Dwelling /Sleeping Unit: Sect 1003.11
Bathtub / Shower Grab Bars: A117.1 Section 609, Figs 609.2, 609.3
Structural Strength for Grab Bars, Shower / Bathtub Seats, and for Mounting and Support Structure: A117.1 Section 609.8, 610.4
Framing Reinforcement for Possible Future Grab Bars in A & B Dwelling Units: A117.1 Sections: 1003.11.1, 1004.11.1
COMMUNICATION ELEMENTS AND FEATURES
Alarms: OSSC 907.5.2.3.3, Table 907.5.2.3.3, A117.1 Section 702, Dwelling Units Section 1005
Signs OSSC Section 1110, Figs 7and 8 A117.1 Section 703, Table 703.2.4
Raised Tactile Characters: A117.1 Section 703.5, Figs 703.3.5, 703.3.10, 703.11
Braille: A117.1 Section 703.4, Table 703.4.3, Fig 703.4.4, Fig 703.4.5
Pictograms: A117.1 Section 703.5, Fig 703.5
Symbols of Accessibility: A117.1 Section 703.6, Figs 703.6.3.1 thru 706.6.3.4
Remote Infrared Audible Sign Receivers A117.1 Section 703.7, Tables 703.7.4 thru 703.7.5, Fig 703.7.5

COMMUNICATION ELEMENTS AND FEATURES
Telephones: A117.1 Section 704, Fig 704.2.1
Detectible Warnings: A117.1 Section 705, Fig 705.5, OSSC 1109.10
SPECIAL ROOMS AND SPACES
Assistive Listening Systems: A117.1 Section 706
ATMs and Fare Machines: A117.1 Section 707, Table 707.6.1, Fig707.5
Assembly Areas and Spectator Seating: OSSC Section 1108.2, Table 1108.2.2.1, A11.7 Section 802, Figs 802.3, 802.4, 802.9.1.1, 802.9.1.2, 802.9.2, Tables 802.9.2.2, 802.10
Dining Areas: OSSC Section 1108.2.9, A117.1 Section 902
Dressing, Fitting, and Locker Rooms: OSSC Section: 1109.12.1, A117.1 Section 803
Kitchens: A117.1 Section 804, Figs 804.2.1, 804.2.2, Type A Dwelling units: Section 1003.12, Figs 1003.12.1.1, 1003.12.1.2, 1003.12.3, and 1003.12.4, B Dwelling Units: Section 1004.12, Figs 1004.12.1.1, 1004.12.1.2
Court Rooms: OSSC Section 1108.4, A117.1 Section 807
Holding Cells: OSSC Section 1108.4.2, A117.1 Section 806
Transportation Facilities: A117.1 Section 805, Figs 805.2.2, 805.10
Self Storage Facilities: OSSC Section 1108.3, Table 1108.3, A117.1 Section 905

BUILT-IN FURNISHINGS AND EQUIPMENT
Sales and Service Counters and Check-Out Aisles: OSSC 1109.12.2 thru 1109.11.5, A117.1 Section 904, Fig 904.4.2
Food Service Lines: OSSC Section 1109.12.4, A117.1 Section 904.5
Benches: A117.1 Section 903, Fig 903
Washing Machines and Clothes Dryers: A117.1 Section 611, Fig 611.4
Kitchen Appliances: A117.1 Section 804.5, Type A Dwelling Units: Section 1003.12.6, Type B Units: Sect 1004.12.12

Radon Gas Mitigation Code Requirements

These Radon Mitigation Code Requirements as implemented by Senate Bill 1025 and the 2010 Oregon Legislature Apply to: Baker, Clackamas, Hood River, Multnomah, Polk, Washington, and Yamhill Counties. The Radon Gas Mitigation code requirements have been adopted by the 2014 Oregon Structural Specialty Code,, Section 1811 for Public buildings, Section 1812 for New R-2, R-3 Occupancies. Appendix N, and Appendix F in the 2011 One & Two Family Structural Specialty Code (ORSC). OSSC Section 1811 contains mostly code provisions for Slab on Grade Construction, and would presently be applied to Residential R-2 and R-3 Occupancies.. OSSC Section 110.3 thru 110.11.4 for Required Inspections, and OSSC Section 1704.17 for Special Inspection Requirements.

Topics are arranged with One and Two Family Code Sections Referenced first on the left, then OSSC 1811, and OSSC 1812 to the right. Inspection Item Topics are arranged in the normal process of construction from foundations, miscellaneous inspections, and on to finals.

General Requirements: ORSC AF103, OSSC 110.3.11, OSSC 1811, OSSC 1812

Exceptions to code Requirements for OSSC 1811; Public Buildings, Exceptions: 1 -7

Required Inspections: OSSC 110.3.11.1 thru .3:

OSSC 110.3.11.1:

1. Aggregate Type and placement .2. Sand Type and placement. 3. Geo-textile Fabric placement. 4. Gas Conveyance Piping System placement in accordance with Section 1811.3.3.2 of this chapter 5. Radon Suction Pits including Plenum Boxes, Collection Pits, etc.6. Preparations of Installation of Sub Soil Exhaust Ducts. & Other Inspections Required by the Building Official to Insure Compliance with Selected Alternative Methods or Engineered Systems.

OSSC 110.3.11.2: Walls in contact with Soil Gas: ORSC AF 103.4.5 thru.6, OSSC 1811.2.4

**OSSC 110.3.11.3: Inspection of Subsoil Exhaust System Duct (SSES D: vent pipe) : ORSC AF 103.5.1
and ORSC AF 103.6.-.12, OSSC Sect 1811.2.5 and Sect 1811.3.2, and OSSC Sect 1812.3.7**

OSSC 110.3.11.4: Inspection of Blower Fan for Active Soil Depressurization Systems: OSSC 1811.3.3.1

Required Special Inspections in OSSC Section 1704.18 for OSSC Section 1811.2.2
Soil Gas-Retarder Membrane in OSSC Section 1811.2.2
Sealing of Construction Joints, Penetrations, Cracks, and Other Connections: OSSC 1811.2.3.2
Field Inspection Items
Sub Slab Preparation: ORSC AF 103.2, OSSC Section 1811.2.1, OSSC 1812.3.2
Drain Tile Loop (alternative method): ORSC AF 102.1, 103.2 # 3. OSSC 1811.3.2
Soil Gas Retarder Membrane, Tears, Repairs, Etc.: ORSC AF 103.3, OSSC Sect 1811.2.2 (special inspection), OSSC 1812.3.3 (regular inspection)
Concrete Slabs in General: OSSC Section 1811.2.3
Foundation Walls in Contact with Soil Gas: ORSC AF 103.4.5, OSSC Section 1811.2.4, OSSC 1812.3.4.5
Sub Soil Exhaust System Ducts (SSED) Vent Pipe for Passive Systems: ORSC AF 103.6.1, OSSC Sect 1811.2.5, OSSC 1812.3.5
Vent Pipe Location and number Required: ORSC AF 103.6.1-2, OSSC 1811.2.5.1, OSSC 1812.3.7.1
Vent Pipe Size: ORSC AF 103.6.1, OSSC 1811.2.5, OSSC 1812.3.7
Vent Pipe Materials: ORSC AF 103.6.1, OSSC 1811.2.5.2, OSSC 1812.3.7.2
Vent Pipe Drainage / No Traps in Horizontal Runs: ORSC AF 103.7, OSSC 1811.2.5.3, OSSC 1812.3.7.3
Vent Pipe Connection to Under Sub Slab or Crawl Membrane: ORSC AF 103.6.1, OSSC 1811.2.5.4, OSSC 1812.3.7.4
Field Inspection Items
Sump Pits for Vent Pipe Connection: ORSC AF 103.4.4, OSSC 1811.2.3.2.4 # 3., OSSC 1812.3.4.4
Vent Pipe Termination: ORSC AF 103.5.1.3 & 103.6.1, OSSC 1811.2.5.5, OSSC 1812.3.7.5
Vent Pipe Identification: ORSC AF 103.9, OSSC 1811.2.5.6, OSSC 1812.3.7.6

Field Inspection Items
Vent Pipe Accessibility for Future Fan Installation and Power Source: ORSC AF 103.8 and 103.12, OSSC 1812.3.7.7, OSSC 1812.3.9
Radon-Resistant Construction Details for Four Foundation Types: OSSC Figure 1812
Active Soil Depressurization Systems: OSSC Section 1811.3
Vent Pipe Blower Sizing and Alarm to Indicate Malfunction: OSSC 1811.3.3
Gas Conveyance Piping Systems (under slab and special inspection required) OSSC 1811.3.3.2 Typical plan view example in OSSC Figure 1811.3.3.2
Crawl Spaces in General: ORSC Section AF 103.5, OSSC 1811, OSSC 1812.3.4.9 thru 5.2
Foundation Ventilation of Crawl Spaces: ORSC Section AF 103.5.2, OSSC 1811 (comply with OSSC 1812) OSSC 1812.3.5.1
Combination Foundations: ORSC AF 103.10, OSSC 1811.2.5.7, OSSC 1812.3.7.8
Inspection Items for Potential Radon Entry Routes:
Foundation Walls as Radon Entry Route: ORSC AF 103.4.5, OSSC Section 1811.2.4, OSSC 1812.3.4.5
Floor or Slab Openings: ORSC AF 103.4.1, OSSC 1811.2.3.2.4, OSSC 1812.3.4.1
Sealing Floors above Crawl Spaces: ORSC AF 103.4.9, OSSC 1811.2.4.3, OSSC 1812.3.4.1 & .3.4.9-10 (crawl space floors)
Sump Pits in Slabs: ORSC AF 103.4.4, OSSC 1811.2.3.2.4 # 3, OSSC 1812.3.4.4
Cracks, Joints, Penetrations in Slab: ORSC AF 103.4.2, OSSC Section 1811.2.3.2 (special inspection , OSS1705.18.2) OSSC 1812.3.4.2 (regular inspection)
Condensate Drains: ORSC AF 103. 4.3, OSSC 1812.3.4.3
Air Handling Units: ORSC AF 103.4.7, OSSC 1812.3.4.7
Duct Sealing: ORSC AF 103.4.8 (comply with sect ORSC M1601.4.1 and ODOE duct performance / testing standards), OSSC 1812.3.4.8 (comply with OMSC 603.9)

Inspection Items for Potential Radon Entry Routes:

Tests at Final for Building Tightness: ORSC AF 103.5.2.3

Inspection for Active System Blower Sizing and Alarm Test to Indicate Malfunction: OSSC 1811.3.3-.3.3.1

Notes
