

CITY OF RICHLAND DEVELOPMENT SERVICES DEPARTMENT 625 Swift Boulevard, MS-35 Richland, WA 99352

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WORKSHEET FOR COMMERCIAL PLAN REVIEW

The project architect or engineer of record must sign this worksheet at the end of the document (*IBC Sec. 107.1*) for all commercial or mixed-use buildings over 4,000SF in total floor area (inclusive of all floors and exterior covered areas). Where buildings are 4,000SF or less, the owner or applicant must fill out and sign this worksheet.

GENERAL INFORMATION

Project Address

Type of Construction	<u>'</u>						
Fire Protection System If provided, specify type (e.g. Notal Proposed S.F. (include all floors and exterior of	-						
Proposed Use (Provide written description)							
EXISTING BUILDINGS							
Will the building remain oper	ational o	during const	truction?		□ Y	ES or	□ NO
Are provisions for Safeguards During Construction provided? (Ch. 33) ☐ YES or ☐ NC				□ NO			
Is the work in this building or space a change of occupancy/use?			ES or	□ NO			
					l .		
OCCUPANCY CLASSIFICATION	ON (Ch.	3) - check al	ll that apply				
OCCUPANCY CLASSIFICATION Use and Occupancy	ON (Ch.	3) - check al	ll that apply			Total	l Area
Use and Occupancy	ON (Ch. ☐ A-1	3) - check al	Il that apply	□ A-4	□ A-5	Total	l Area
Use and Occupancy		,		□ A-4	□ A-5	Total	l Area
Use and Occupancy ☐ Assembly (303)		,		□ A-4	□ A-5	Total	l Area
Use and Occupancy ☐ Assembly (303) ☐ Business (304) ☐ Education (305)		,		□ A-4	□ A-5	Total	l Area
Use and Occupancy Assembly (303) Business (304) Education (305) Factory (306)	☐ A-1	□ A-2		□ A-4	□ A-5	Total	I Area
Use and Occupancy Assembly (303) Business (304) Education (305) Factory (306) High Hazard (307)	□ A-1 □ F-1	□ A-2	□ A-3		-	Total	I Area
Use and Occupancy Assembly (303) Business (304) Education (305) Factory (306) High Hazard (307) Institutional (308)	☐ A-1 ☐ F-1 ☐ H-1	☐ A-2 ☐ F-2 ☐ H-2	□ A-3	☐ H-4	-	Total	I Area
Use and Occupancy Assembly (303) Business (304) Education (305) Factory (306) High Hazard (307) Institutional (308)	☐ A-1 ☐ F-1 ☐ H-1 ☐ I-1	□ A-2 □ F-2 □ H-2 □ I-2	□ A-3 □ H-3 □ I-3	☐ H-4 ☐ I-4	-	Total	I Area
Use and Occupancy Assembly (303) Business (304) Education (305) Factory (306) High Hazard (307) Institutional (308) I-3 Use Condition Mercantile (309)	☐ A-1 ☐ F-1 ☐ H-1 ☐ I-1	□ A-2 □ F-2 □ H-2 □ I-2	□ A-3 □ H-3 □ I-3	☐ H-4 ☐ I-4	-	Total	I Area
Use and Occupancy Assembly (303) Business (304) Education (305) Factory (306) High Hazard (307) Institutional (308) I-3 Use Condition Mercantile (309) Residential (310)	☐ A-1 ☐ F-1 ☐ H-1 ☐ I-1 ☐ 1	□ A-2 □ F-2 □ H-2 □ I-2 □ 2	□ A-3 □ H-3 □ I-3	☐ H-4 ☐ I-4	-	Total	I Area
Use and Occupancy Assembly (303) Business (304) Education (305) Factory (306) High Hazard (307) Institutional (308) I-3 Use Condition Mercantile (309) Residential (310)	☐ A-1 ☐ F-1 ☐ H-1 ☐ I-1 ☐ 1	□ A-2 □ F-2 □ H-2 □ I-2 □ 2	□ A-3 □ H-3 □ I-3	☐ H-4 ☐ I-4	-	Total	I Area

GENERAL BUILDING HEIGHTS AND AREAS (Ch. 5)

	Allowable	Proposed
Building Height (Table 504.3)		
Number of Stories (Table 504.4)		
Unadjusted Allowable Area Factor (Table 506.2)		
Frontage Increase (506.3)	Area factor increase, $I_f = $	
 □ Single-occupancy, One-story □ Mixed-Occupancy, One-story □ Single-occupancy, Multistory □ Mixed-Occupancy, Multistory 	Allowable Area (Show Eq	. 5-1, 5-2, or 5-3)
Proposed Building Area		
Basement area		
Main level area		
Main level outdoor covered areas		
2 ND floor level area		
2 ND floor level outdoor covered areas		
3 RD floor level area		
3 RD floor level outdoor covered areas		
4 [™] floor level area		
4 [™] floor level outdoor covered areas		
Additional floors area		
Additional floors covered areas		
Mezzanines and Equipment Platforms		
Are mezzanines or equipment platforms proposed?	☐ YES	or 🗆 NO
Describe:		
Unlimited Area Buildings		
Are you proposing an unlimited area building?	☐ YES	or 🗆 NO
 □ Non-sprinklered, One-Story Building (507.3) □ Sprinklered, One-Story Building (507.4) □ Two-Story Building (507.5) □ Group A-3 of Type II, III, or IV Const. (507.6-7) □ Group H Occupancies (507.8-9) □ Group E Buildings (507.11) □ Motion Picture Theaters (507.12) □ Mall and Anchor Buildings (507.13) 	Describe:	

Note: Many designs do not include outdoor covered areas within the floor area. Per the definitions in Ch. 2, floor area includes all areas "within the horizontal projection of the roof or floor above." The City of Richland does not count standard roof overhangs, but will include drive-thru covered areas, covered porches, and similar covered areas when determining building area.

MIXED USE AND OCCUPANCY (508) ☐ Accessory Occupancies (508.2) The aggregate area of accessory occupancies shall not occupy more than 10 percent of the floor area of the story in which they are located and shall not exceed the tabular values for non-sprinklered buildings in Table 506.2 for each such accessory occupancy. ☐ Non-Separated Mixed Use Occupanices (508.3) The allowable building area and height of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration. ☐ Separated Mixed Use Occupanices (508.4) Each portion of the building shall be individually classified as to use and shall be separated from adjacent uses by fire barriers and/or horizontal assemblies having a fire-resistance rating determined in accordance with Table 508.4. In each story, the building area shall be such that the sum of the ratios of the actual building area of each separated occupancy divided by the allowable building area of each separated occupancy shall not exceed 1.00. **INCIDENTAL USES AND SPECIAL PROVISIONS** (509-510) Incidental Use 509-Does the proposed project include any of the incidental uses provided within ☐ YES or Table 509? If yes, describe below and specify provided separation and/or protection. Description: **Special Provisions** (510) Does the proposed project include any of the incidental uses provided within ☐ YES or \square NO Section 510? If yes, describe below. Description: SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY (Ch. 4) Does your proposed building use any of the "special" types of buildings or areas noted in chapter 4? Check any that apply. ☐ Mall Buildings (402) ☐ High-Rise Buildings (403) ☐ Atriums (404) ☐ Underground Buildings (405) ☐ Motor-vehicle Related (406) ☐ Group I-2 (407) ☐ Group I-3 (408) ☐ Motion Picture Projection (409) ☐ Stages and Platforms (410) ☐ Special Amusement (411) ☐ Aircraft Related (412) ☐ Combustible Storage (413) ☐ Hazardous Materials (414) ☐ Group H Occupancies (415) ☐ Flammable Finishes (416) ☐ Drying Rooms (417) ☐ Organic Coatings (418) ☐ Live/Work Units (419) ☐ Group I-1 & R Occupancies (420) ☐ Hydrogen Fuel Gas Rooms (421) ☐ Ambulatory Care Facilities (422) ☐ Higher Education Labs (427) ☐ Medical Gas Systems (427) NOTE: For any of the special uses listed above, please indicate below each particular "special" use, the specific requirements, and where on the plans the compliance with that section can be found. **Explanation: Electric Vehicle Charging Infrastructure** (429) Required **Sheet** For new buildings, EV Charging infrastructure is ☐ YES or required, including accessible units.

TYPE OF CONSTRUCTION (Ch. 6)

Fire-Resistance Rat	ing for Building Elen	nents (Tabl	e 601)		
			Requ	ired Rating	IBC, UL, or GA Assembly No.
Primary Structura	al Frame				
Exterior Bearing	Walls				
Interior Bearing V	Valls				
Floor Construction	n				
Roof Constructio	n				
Fire-Resistance Rati	ing of Exterior Walls a	and Openin	gs Based	on FSD (Table 60	01 and Table 705.5)
	Fire Separation Distance		ating per e 602	Area of Openii as % of Wal	
North Side					
South Side					
East Side					
West Side					
	istant Construction F	eatures		on features such	as fire walls, fire barriers,
	oke barriers, smoke pa				ao mo mano, mo barrero,
Item:	, <u> </u>	,		ired Rating	IBC, UL, or GA Assembly No.
Penetrations, Fire-R	Resistant Joint Syster	ms, and O	pening Pro	tectives (714-71	6)
Specify sheet wh	nere details demonstra vided. Exact materials	ting the ins	tallation/ap	plication of fire-	Sheet
Specify sheet wh	nere door and opening	schedules	are provide	ed.	Sheet
Specify mechani	cal sheet(s) showing f	ire/smoke d	lampers.		Sheet
INTERIOR FINISHES					
Are there any un If so, please des	eiling Finish Requirer lusual interior finishes cribe below.				☐ YES or ☐ NO
Description:					

FIRE PROTECTION SYSTEMS (Ch. 9)

Richland Municipal Code (RMC) Code The City of Richland has adopted systems. Please indicate that you	ed via the municipa	l code additional p				e protection	
Fire Alarms Req'd			YES	or \square	NO		
Fire Sprinklers Req'd			YES	or \square	NO		
If the building requires fire alarm is designing these systems:	or fire sprinkler, ind	icate the company	and/or	fire prote	ction e	engineer who	
List Company Name, Address, Contact, and Phone #							
	-						
Fire Protection Systems per IBC/IF Even though Chapter 5 and City system anyway. Please list each	requirements may I						
Occupancy Group	Fire /	Area		Sprink	lers R	s Req'd?	
				□ YES	or	□ NO	
				□ YES	or	□ NO	
				□ YES	or	□ NO	
				□ YES	or	□ NO	
MEANS OF EGRESS (Ch. 10)							
General Means of Egress (1003)							
Specify minimum ceiling height p	provided along mear	ns of egress (1003.	.2)				
Specify sheet showing protruding	g objects on circulat	ion paths (1003.3)					
Specify sheet showing slip-resistant surface along m		eans of egress (10	03.4)				
Specify detail sheet with for char	nges in elevation (10	003.5)					
Occupant Loads (1004)							
Room Number or Area	Occupant L (Table 1			Occu	pant l	Load	
				1			
			TOTA	L			

Means of Egress Sizing (1005)				
The minimum egress width, calculated per this section and based on total occupant load is:	Stairways	Other Components		
Number of Exits and Exit Access Doorways (1006)				
Based upon use and occupant load, how many exit	Based upon use and occupant load, how many exits are required:			
Mariana Canana Balk of Farmer (4000 0.4)	Allowed	Proposed		
Maximum Common Path of Egress (1006.2.1)				
Means of Egress Illumination (1008)				
Specify sheet showing means of egress illumination	or note exception:			
Accessible Means of Egress (1009)				
Accessible means of egress within the building is sh	nown upon sheet:			
Accessible means of egress to public way is shown	upon sheet:			
Doors, Gates, and Turnstiles (1010)				
Landings at all exterior doors are shown upon shee	t:			
Door hardware providing accessible use is indicated	d upon sheet:			
Panic and Fire Exit Hardware (1010.2.9)				
Is panic hardware required?		or 🗆 NO		
Room or area that requires panic hardware:				
Stairways (1011)				
Specify sheet with stairway construction details:				
NOTE: 4"-7" riser and 11" minimum tread required.				
Specify sheet with handrail construction details:				
NOTE: Handrails shall extend 12" beyond top ris	er and one tread beyond the	bottom riser.		
Exit Signs (1013)				
Specify sheet wherein exit signs are shown:				
Exit Access and Maximum Travel Distance (1016-10 Please specify if any of the following apply and the				
r react opening in any or the renewing apply and the	Applies?	Sheet		
Egress through intervening spaces (1016.2)	☐ YES or ☐ NO			
Multiple tenants (1016.2.1)	☐ YES or ☐ NO			
Group I-2 Suites (407.4)	☐ YES or ☐ NO			
Maximum Exit Access Travel Distance (Table 1017.2)	Allowed	Proposed		
Corridor Fire-Resistance Rating (Table 1020.2)	Fire-Resistance	Sheet		

MEANS OF EGRESS (Ch. 10) - continued

Exits and Exit Components (1022-1028)				
		Ар	plies	?	Sheet
Interior Exit Stairways and Ramps (1023)		☐ YES	or	□ NO	
Exit Passageways (1024)		☐ YES	or	□ NO	
Horizontal Exit (1026)		☐ YES	or	□ №	
Exterior Exit Stairways a	nd Ramps (1027)	☐ YES	or	□ №	
Do all exits provide access to a	public way? (1028.5)	☐ YES	or	□ №	
Assembly (1030)					
Does the project contain areas or rooms for as If yes, please identify location of the following with		•	-	icy?	☐ YES or ☐ NO
Component	Requirement		Sheet		
Main Exit (1030.2)	If OL>300, exit sized for ½ if the total OL				
Other Exits (1030.3)	If OL>300, exit sized for ½ if the levels OL				
Travel Distance (1030.7)	Comply with Sec. 1017 or an exception				
Emergency Escape and Rescue (1031)					
Are emergency escape and rescue openings required?		☐ YES or ☐ NO			

ACCESSIBILITY (Ch. 11)

Accessible Routes and Entrances (1104-1105)		
	Provided?	Sheet
Route from Site Arrival Points (1104.1)		
Route Within a Site (1104.2)		
Multistory Buildings and Facilities (1104.4)		
Accessible Entrances (1105)		
Parking and Passenger Loading Facilities (1106)		
Are accessible parking spaces with at least one	Quantity Provided	Sheet
van space provided?		

INTERIOR ENVIRONMENT and PLUMBING SYSTEMS (Ch. 12 and Ch. 29)

Toilet and Bathroom Req	uirements (1210)		
Wall and partition finish must be smooth, hard, and non-absorbent. GWB is not approved. (1210.2)		☐ YES or ☐ NO	Sheet
Minimum Plumbing Facili	ities (2902)		I
Occupancy Group	Occupant Load	# of Toilets Req'd	Lavatories Req'd
Please indicate if:		Provided?	Exception?
Separate facilities for e	each sex (2902.2)	☐ YES or ☐ NO	
Employee and public fa	acilities (2902.3)	☐ YES or ☐ NO	
Facilities within 500 fee	et (2902.3.3)	☐ YES or ☐ NO	
STRUCTURAL DESIGN ar	nd SPECIAL INSPECTION ((Ch. 16 and Ch. 17)	
Construction Documents	(1603)		
Are structural engineering calculations provided? (,	☐ YES or ☐ NO
Has a geotechnical report been prepared and revie		wed by both the structural	☐ YES or ☐ NO
and architectural designer? (1603.1.6 and 1803.2) General Design Requirements (1604)			
	,		1
Given the nature of occ	cupancy, what is the appropr	iate risk category?	
Live Loads (1607)			
		Occupancy or Use	Uniform Live Load
Given the occupancy a	and use, what live loads		
have been used? (Tab			
Special Inspection (Ch. 1	7)		
		Provided?	Sheet
	pecial inspections been c. 1704.3? (1704.2.3)	☐ YES or ☐ NO	
Are structural observations required? (1704.6)		☐ YES or ☐ NO	

Other minor items that must be shown on the plans:

- 804-806 Flame spread for interior finishes, verify plans and/or specifications follow Table 803.13.
- 1202.2 Attic ventilation required at 1/300th attic area (or 1/150th for all upper venting).
- 1202.4 Crawl space ventilation required at 1/1500th the floor area (w/ Class 1 vapor retarder).
- 1209.1 Crawl access required 18"x24" minimum (larger if there is any mech. equip. in the crawl space).
- 1209.2 Attic access required 20"x30" minimum (larger if any mech. equip. in attic).
- 1403.2 Water-resistive barrier of No. 15 asphalt felt or approved "house-wrap" ("Tyvek" or equal) shall be applied over study or sheathing on all exterior walls.
- Veneers, verify type of veneer being used and appropriate requirements.
- 1505.1 Each construction type (II-B, etc.) must have roof class covering per Table 1505.1.
- 1502 Roof drainage and overflow, verify overflows on plans.
- 1805 Damp-proofing required on basement walls
- 2406.4 Safety glazing at various locations, adjacent to doors, etc. (Please clearly show this on plans, not just in a window schedule).

STRUCTURAL REMINDERS (Wood Construction)

- 2304.3.2 Headers at all openings must be shown on a plan/schedule and sized for imposed loads.
- 2304.3.3 Shrinkage must be accounted for in buildings where the wood walls support more than 2 floors and a roof; structural analysis required.
- 2304.10.2 Standard nailing schedule; notes or specifications that cover these items required.
- 2304.12.1.1 Min. 18" clearance below all wood floor joists, min. 12" clearance below all floor girders.
- 2304.12.1.2 Min. 8" clearance from grade to mudsill plate.
- 2304.12.2.2 Pressure-treated posts required, or provide 8" high piers in crawl space.
- Conventional light-frame construction can ONLY be used if ALL criteria is met (e.g., max 40-ft truss span b/w bearing points, 25-ft brace wall line spacing).

WA STATE ENERGY CODE (Commercial)

- C402.2 Specific Building Thermal Envelope Insulation Requirements.
- C403 Mechanical systems; Review requirements for HVAC TSPR (C403.1.1), HVAC performance

requirements (C403.3.2), Economizers (C403.5), and ventilation/exhaust systems (C403.7).

- C406 A minimum of six 'additional energy efficiency credits' are required.
- C408 Requirements for building commissioning process led by a certified commissioning professional.
- C409 Energy Metering and Energy Consumption Management

OTHER CODES

IMC Verify furnace location requirements, service lighting, etc.

2015 UPC Check water supply piping sizes, drainage piping sizes, etc., based on fixture units for such.

FOR MULTI-UNIT RESIDENTIAL BUILDINGS

RCW 64.55 Multi-family dwellings, special inspection of weatherization/enclosure

CERTIFICATION BY LICENSED DESIGN PROFESSIONAL (ARCHITECT OR ENGINEER)

By signing here, I attest and affirm that I am the architect/engineer of record in accordance with Sec. 107.3.4 of the adopted IBC (design professional in responsible charge), and that I have reviewed and coordinated, or will review and coordinate, all submittal documents prepared by others, including phased and/or deferred submittal items, for compatibility with the design of the building. I will review and coordinate all required shop drawings and submit approved shop drawings to the City of Richland prior to the installation of the items in question. I further attest that this code worksheet has been filled out by me or under my direct supervision and represents a good faith effort to comply with all building code and building code-related requirements and that code and code-related requirements of this worksheet have been shown on the submitted construction plans.

Signature of architect/engineer of record	Date