Project Name: Rev date: 9-8-2023

Project Address: RDP Full Name: RDP License #:

RDP phone and email:

Fairfax County - Office of the Fire Marshal Fire Plans Review Submission Checklist - Commercial

Instructions

The use of this form is recommended for all projects requiring a <u>Registered Design Professional in Charge (RDP)</u> in accordance with the Virginia Administrative code 13VAC5-63-110, Section 111.

The purpose of this checklist is to capture Fairfax County's <u>fire marshal commercial plan review submittal requirements</u> (fairfaxcounty.gov) document requirements and serve as a quick check for design submissions. As each project is unique and will require different items to be reviewed based on scope of the project, this checklist maybe not inclusive of all projects, however, it is intended to provide a checklist for a general and discipline-specific gate-keeping review of the permit submittals. This checklist is a tool for improving the overall standard and 'quality' of plans submitted that results in faster code compliance review and higher approval rates. Evaluate each item if applicable and select N/A if not applicable.

ITEM #	RDP/Designer	N/A	ITEM DESCRIPTION
			General Requirements
1.			I have read the Fairfax County <u>fire marshal commercial plan review submittal requirements</u> <u>(fairfaxcounty.gov)</u> .
2.			<u>Completed</u> Building Plan Review Cover Sheet (state N/A for not applicable). See: <u>Building Plan</u> <u>Review Cover Sheet</u> Pay special attention to information under the heading "Commercial".
3.			I am familiar with Fairfax County plan review <u>Common plan review comments (fairfaxcounty.gov)</u> and plan reviewer <u>contact information</u> .
4.			Address of project on plans matching application
5.			Drawings Legible
6.			Work Description: concise and specific matching with documents submitted
7.			Building Code and all other associated codes for the project with the correct year shown on drawing set.
8.			Name, Address and Phone on the cover sheet or individual plan sheets of designer(s).
9.			Minimum Plan Scale shall be 1/8 inch = 1 foot. Details shall be of 1/4 inch = 1 foot (min)
10.			Provide graphic scale on all plans. Include column Grid IDs as appropriate.
11.			Plans shall be ready For Construction. Plans marked For Bid Only, Permit Only, or 80% Progress, etc., will be rejected.
12.			Sheet Index including MEP disciplines and all other sheets in the entire plan set
13.			Key Plan on each applicable drawing to show the location(s) of work

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	Delayed egress or special locking location shown with appropriate symbols such as card readers, sensors, push to exit.		
	 readers, sensors, push to exit Occupant loads calculated using Chapter 10, "Maximum Floor Area Allowances per Occupant" for each function on each floor. Where furniture seating creates a larger occupant 		
	load, list both and utilize greater of the two.		
	Total occupant load for each floor and the total occupant load for entire building.		
	Remoteness between required exits, exit access doors is clearly shown.		
	Any additional details or sections necessary to explain the life safety design intent.		
	Building elevations (all sides) with dimensions (building height, floor to floor, height to ridge and		
111.	eave). Include calculations as appropriate to demonstrate compliance with wall opening requirements shall be provided.		
112.	Sections through Building (Detailed Wall Sections)		
113.	Ramps, identify slope with handrails and edge protection where applicable.		
114.	Stair Details (risers/treads/handrails/guardrails). Indicate direction up and down		
115.	Interior Finish Schedule/ Type Material along with flame spread rating ex Class A, B, C		
113.	All door schedules must be on plans. All door hardware sets must be called out and present on plan		
	sheet. Referring to Specification will not be accepted. Additionally, identify all new and existing		
116.	hardware components (do not state, "Existing to Remain" without providing hardware set) and those		
	that support access control.		
117.	Window Schedule		
118.	Penetration details for fire-rated construction with nationally recognized test ratings, e.g., UL/FM #.		
	For projects using Virginia Existing Building Code (VEBC), answer all the following question in scope		
	of work on plan sheet:		
	2. What is the purpose of the renovation?		
	3. What repairs are being conducted?		
119.	4. What are the alterations?		
	5. Are the alterations considered Level 1, or 2?		
	6. Is there a change of occupancy?		
	7. Is the structure a historic building?		
	8. Is the building being moved?		
120.	Firestopping and Draft stopping		
	Design specifications are present on plans sheet for all rated walls including in partition schedule		
121.	with nationally recognized testing agency, e.g., UL/FM # or VCC chapter 7 compliance.		
	Architectural Site Information		
122.	Show locations of all existing and proposed structures including tanks/generators/sheds with		
	dimensions from property lines/existing buildings.		
123.	Show locations of all existing and proposed site improvements		
124.	Show parking plan, including fire lanes.		
125.	Show Location, Type and Size of Public/Private Water Lines, Fire service lines. Must show location of		
126	Fire Department Connection where fire sprinkler system is present.		
126.	Show Location of fire department connection and post indicator valve (if present)		
127.	Show location of building address Show location of main entranse and all evits		
128.	Show location of main entrance and all exits		
129.	Egress and Accessible routes from building exits to public way		
130.	Adjoining Property Owners Names and Land Uses		
131.	Address on site plan matching construction document address and county tax map #.		

Fire Protection/Life Safety (Information in this section can be presented on Architectural, MEP Plans)			
300.	Fire Protection Systems: All required fire protection systems identified on plans with correct NFPA standards and editions.		
301.	For Smoke Control system/ stair pressurization system, rational analysis is provided where required.		
	See Smoke Control Manual (fairfaxcounty.gov) and Smoke control supplemental checklist		
	(fairfaxcounty.gov) for detailed submittal requirements.		
302.	State if building is proposed to be sprinklered and if so, by which type of NFPA system. Ex. NFPA 13,		
202	13R. Show primary fire department connection (FDC) on address side of building (if sprinklered). For high-		
303.	rise buildings, also show secondary FDC location, remote from primary FDC.		
304.	Show location, size, and size type of incoming material for all proposed underground fire line on		
304.	plumbing sheet or sprinkler plan service lines.		
305.	State if building is proposed to have fire alarm system and type (ex. manual, voice evacuations).		
306.	Fire hose valve locations at horizontal exits, exit enclosures, exits stairs, etc.		
300.			
307.	For flammable and combustible liquid tanks indicate size, and location shown and dimensioned from all property lines, nearest structure (including other tanks) on site Show all on-site and off-site roads and driveways accessing the site.		
308.	Fire Service access elevator clearly identified		
309.	Any hazardous materials identified, control areas and maximum allowable quantities stated		
310.	Height of storage, racks, shelves.		
311.	Location of kitchen hood pull station in the path of egress. Min 10ft and max 20ft from edge of hood.		
312.	 Site Drawing: (provide a site plan record # when applicable) An approved copy from the Fire Marshal Office is provided where any of the following is in project scope: Any building that is new (including a storage shed) Any addition A change in construction type where the construction type is decreasing in fire resistance rating i.e., increasing in combustibility A new sprinkler system is being installed in a building, Modification in streetscape that decreases street access to the building or alters any existing fire lane (i.e., reduces fire truck access) Ground floor pool addition Relocating existing fire department connection (FDC) or underground (UG) fire line Changes to water supply or relocation of fire hydrant 		
313.	 In-building emergency communications coverage All high-rise buildings shall have wired communication systems as described in VCC-18, 907.2.12.2 in addition to complying with VCC-18, 918. All other buildings (this would be your building) that are required to have in-building emergency communications coverage per 918 can take the following path: Provide technological documentation on a plan sheet showing that your structure (building) or portion thereof does not impede emergency communication signals. VCC-18, 918.1 Exception 5. You may contact Fairfax County Radio Services Division at 703.324.2630 to get information on signals for your area. If signals are impeded, comply with infrastructure installation requirement per VCC-18, 918.1.1 		
314.	Fire Safety During Construction and Demolition: Compliance with VCC-2018 and SFPC-2018 (fire code), Chapter 33 and NFPA 241-2013. At minimum, <u>demonstrate/callout on plans</u> :		

	 On-site firefighting water supply available during construction/demolition 	
	Standpipe	
	Fire Department Connection (FDC)	
	Fire department access with all-weather surface to within 100 feet of the FDC.	
	Deferred Shop Drawings	
	1. Shop drawings are required to be submitted for the following:a. Fire protection system sprinklers, standpipes, alternative suppression, fire detection and	
	alarm, fire pumps, kitchen hood, etc.	
315.	b. Access control locks or special locking arrangements	
	c. Tanks storing flammable and combustible liquids including generators	
	2. Provide notes on your building permit construction set that clearly indicate shop drawings for the	
	required systems will be submitted to the Fire Marshal Office	
	Mechanical Plans	
400.	Verify Mechanical Key plan showing the area of mechanical work relative to the entire building.	
401.	Provide room names, number, and grid lines to match architectural plans	
101.	Verify mechanical floor plan shows:	
	a. Supply ducts, grill locations, and air flows in cfm.	
402.	b. Return ducts and grill locations	
	c. Exhaust ducts, grill locations, and air flows in cfm.	
	d. Show Equipment location and outside air intake and exhaust location	
403.	Verify roof plan with all existing and new roof top equipment (HVAC units, Exhaust Fans,	
	Compressors, Vent etc.) applicable to the project.	
404.	Show all fire-rated and smoke-rated walls (both existing and new) with their ratings (ex. 1hr fire barrier, 1hr fire partition, etc.)	
405.	Smoke Detection for Return Air	
406.	Fire and or Smoke dampers and detection devices	
407.	Fire duct wrap design assembly details	
	Plumbing Plans	
500.	Show all fire-rated and smoke-rated walls (both existing and new) with their ratings (ex. 1hr fire	
	barrier, 1hr fire partition, etc.)	
501.	Provide room names, number, and grid lines to match architectural plans	
502.	Fire stopping/penetration details/design #	
600	Electrical Plans Evit Signs directing to two concrete and distinct evits when two evits are required.	
600. 601.	Exit Signs directing to two separate and distinct exits when two exits are required Provide room names, number, and grid lines to match architectural plans	
602.	Emergency/night lights	
603.	Illumination at exits and throughout exit discharge to public way	
	<u> </u>	
604.	Show all fire-rated and smoke-rated walls (both existing and new) with their ratings (ex. 1hr fire barrier, 1hr fire partition, etc.)	
	burner, in the partition, etc.,	
	Size, type, fuel and design number for any tank and/or onsite generator is identified with location	
605.	shown from building(s) and property line(s).	

Telecommunication Plans				
700.	Show all fire-rated and smoke-rated walls (both existing and new) with their ratings (ex. 1hr fire barrier, 1hr fire partition, etc.)			
701.	Provide room names, number, and grid lines to match architectural plans			
702.	Fire stopping/penetration details/design #			

I	_, acknowledge that I have to the best of my ability reviewed and completed
the above checklist.	

Place professional seal, date, and signature: