2. Detailed Event Matrix must include:

☐ Every initiating device by address down one column.

909.12 will be accomplished.

☐ Any related material that supports the design of the system.

		Every smoke control device (i.e., fans, dampers, etc.) and every other event that must occur in order for proper operation of the smoke control system (i.e., HVAC shutdown, etc.) across the top; with prior approval, some devices may be combined.		
3.	as "Smo	s: The following guidelines must be followed in a drawing package designated oke Control System" to differentiate them from any other plans for that job or		
	project:	To clearly identify the smoke control systems, the background systems and floor plans should be in light line weight, with the pertinent systems in heavy line weight.		
		Smoke control system component drawings must be submitted on current architectural backgrounds.		
		Smoke control zone drawings clearly identifying (colored, hatched, etc.) the pressurized shafts.		
		Drawings identifying the fire rating of associated smoke barriers.		
		Location of fire-fighter's smoke control panel/controls, and room layout.		
		The fire-fighter's Smoke Control Panel must be submitted, depicting fan/damper controls and status indication as per Bellevue Fire Department <i>Smoke Control</i> Guidelines Section 9.4		
		Smoke control mechanical equipment and ductwork drawings.		
		Location and design of the emergency generator and transfer switch rooms per IBC Section 909.11.		
		Drawings demonstrating all emergency system wiring methods associated with the pressurization system, from the source (generator) to the device (damper, fan, etc).		
		 Drawings must clearly demonstrate pressurization control and power wiring routing and 2-hour protection. 		
		 Drawings must clearly demonstrate fire alarm wiring routing and 2-hour protection when used to control the pressurization system. 		
4.	permit in	al Inspector Test Procedure document must be submitted with the smoke control accordance with IBC Section 909.3, and as described in Bellevue Fire Department Control publication, Section 8.2.6		
		The architect, engineer of record, or special inspector must prepare the document as a bound document, independent of the design plans and smoke control report, and minimally address the following:		
		☐ Qualifications of the special inspector and special inspection agency. ☐ Summary of the testing to be performed, including:		
		A general description of each smoke control component and zone to be evaluated, and		
		 The applicable performance criteria as identified in the smoke control report and IBC Section 909.18. 		
		 □ Provide representative test forms and inspection reports that will be used. □ Anticipated testing schedule, minimally addressing IBC Section 909.18. 		
		7 will dispated testing softedute, minimally addressing 120 occitor 505.16.		
To apply for future permits for associated systems (Building, Mechanical, Electrical, Sprinkler, and Fire Alarm), the following details must be included in those submittals.				
5. Architectural Plan Submittal:				
		 □ A Concise Narrative Description of the smoke control system and any special requirements of the design must be prepared by the author of the Detailed Design Report. This description will be required to be on every set of associated design plans and be shown on future tenant improvement drawings for the life of the building as described in Appendix C. □ Clear identification of the smoke zone boundaries. These boundaries are 		

	0	required to be constructed as smoke barriers and must be appropriately identified, including wall and/or horizontal listed assembly number and associated assembly details not deviating from the listed assembly. A letter prepared by the architect stating that their design satisfies the requirements of the smoke control system. <i>Note</i> : A single letter signed by all disciplines is acceptable. Plans must provide the location and design of the emergency generator and transfer switch rooms per IBC Section 909.11. In addition, they must detail 2-hour fire-rated separation of power/control wiring to equipment serving the pressurized elevator and stair shafts. Provide seismic anchorage of critical systems and include the design with the associated design submittal, as appropriate (IBC Section 403.14).
6.	Mechanical I	Plan Submittal:
		A Concise Narrative Description of the smoke control system and any special requirements of the design must be prepared by the author of the Detailed Design Report. This description will be required to be on every set of associated design plans and be shown on future tenant improvement drawings for the life of the building as described in Appendix C.
		Clear identification of the smoke zone boundaries. These boundaries are required to be constructed as smoke barriers and must be appropriately identified.
		A letter prepared by the mechanical designer stating that their design satisfies the requirements of the smoke control system. <i>Note</i> : A single letter signed by all disciplines is acceptable.
		Plans must include identification of the location and address of all devices that will initiate shaft pressurization, components associated with the smoke control process (including actuators, control dampers, fire and smoke dampers, variable air volume controls, and fans), and associated system responses/configurations.
		Provide capacities of each shaft pressurization fan—including applicable calculations for the number of belts and the operating exhaust temperature.
		Identify equipment locations with inlet and outlets clearly identified and separated in accordance with Amended IBC Section 909.10.3.
		When applicable, design submittals must include the sequence of operations (including timing, if necessary, to provide for proper door operation or prevent duct implosion or explosion) and the positioning of each damper for every fire scenario.
7.		lan Submittal:
		A Concise Narrative Description of the smoke control system and any special requirements of the design must be prepared by the author of the Detailed Design Report. This description will be required to be on every set of associated design plans and be shown on future tenant improvement drawings for the life of the building as described in Appendix C.
		Clear identification of the smoke zone boundaries. These boundaries are required to be constructed as smoke barriers and must be appropriately identified.
	0	A letter prepared by the fire alarm designer stating that their design satisfies the requirements of the smoke control system. <i>Note</i> : A single letter signed by all disciplines is acceptable.
		Plans must include identification of the location and address of all devices that will initiate shaft pressurization, components associated with the smoke control process (including actuators, control dampers, fire and smoke dampers, variable air volume controls, and fans), and associated system responses/configurations.

☐ Submittals must also demonstrate the 2-hour fire-rated protection of wiring when utilizing the fire alarm system for pressurization control functions. **Electrical Plan Submittal:** ☐ A Concise Narrative Description of the smoke control system and any special requirements of the design must be prepared by the author of the Detailed Design Report. This description will be required to be on every set of associated design plans and be shown on future tenant improvement drawings for the life of the building as described in Appendix C. ☐ Clear identification of the smoke zone boundaries. These boundaries are required to be constructed as smoke barriers and must be appropriately identified. ☐ A letter prepared by the electrical designer stating that their design satisfies the requirements of the smoke control system. Note: A single letter signed by all disciplines is acceptable. ☐ The location and design of the emergency generator and transfer switch rooms per IBC Section 909.11. ☐ Generator sizing and minimum run time of the generator for evacuation ☐ Demonstrate 2-hour protection of wiring controlling/powering fans serving smoke proof enclosures. ☐ Panel schedule (industry standard type) for the emergency panel with connected and demand loads. ☐ Schedule of smoke control components showing equipment, the load in amps or volt- amps, conduit type and size, conductor type and size, and breaker type and size. ☐ All emergency system wiring methods pertaining to the smoke control. ☐ Schedule of individual smoke control components starting loads that will start at the same time and schedule of individual smoke control components running loads. ☐ The total combined loads of smoke control components for start-up and run (start-up and run shown separately). Sprinkler Plan Submittal: ☐ A Concise Narrative Description of the smoke control system and any special requirements of the design must be prepared by the author of the Detailed Design Report. This description will be required to be on every set of associated design plans and be shown on future tenant improvement drawings for the life of the building as described in Appendix C.

9.

8.

- ☐ Clear identification of the smoke zone boundaries. These boundaries are required to be constructed as smoke barriers and must be appropriately identified.
- ☐ A letter prepared by the sprinkler designer stating that their design satisfies the requirements of the smoke control system. Note: A single letter signed by all disciplines is acceptable.
- ☐ Demonstrate that sprinkler zones are coordinated with smoke zones, as applicable.

Note: Approval of the smoke control system *does not* constitute approval of each component system. Separate fire alarm, sprinkler, building, mechanical, and electrical approvals are required.