

To help visualize how these tools connect before you start the checklist, this diagram illustrates the typical data flow from PointCab to Revit.

▼ Role-Based Standard Operating Procedure (SOP) Checkli	ist
Project Name:	
Date:	

Part 1: BIM Manager / Survey Lead (Setup & Coordination)

Goal: Ensure data integrity, coordinate systems, and software readiness.

Status	Phase	Software	Task Description
	1. Processing	PointCab Origins	Import raw scan data (FLS/E57), register scans, and remove noise/ghosting.
	1. Processing	PointCab Origins	Critical: Create the .pcp project file (saves the coordinate system).
	1. Processing	PointCab Origins	Define rough Levels and create the initial Floor Plan view (top-down orthophoto).
	1. Processing	PointCab Origins	Export Clean E57 file (cropped to building envelope) for AI processing.
	2. Cloud	PointCab Nebula	Upload project to Nebula and generate the share link for the team.
	2. Cloud	aurivus Al	Upload the Clean E57 to aurivus web platform for classification (Architecture + MEP).
	3. Setup	Revit + 4Revit	Open Revit template. Connect to .pcp file using PointCab 4Revit tab.

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Status	Phase	Software	Task Description
	3. Setup	Revit + 4Revit	Crucial: Use plugin to "Transfer Levels" and "Align Project Base Point" to match the scan.

Part 2: BIM Modeler (Execution & Modeling)

Goal: Rapid geometry creation and precise verification.

Status	Phase	Software	Task Description
	4. Al Modeling	Revit + aurivus	Open aurivus plugin. Load processed Al data.
	4. Al Modeling	Revit + aurivus	Run "Walls & Doors" detection. Check: Verify walls snap to the Levels created by the Manager.
	4. Al Modeling	Revit + aurivus	Run "Speed Drawing" for MEP (Pipes/Ducts). Isolate systems one by one to avoid clutter.
	5. Precision	Revit + 4Revit	Switch to PointCab 4Revit tab. Generate Layouts (Orthophotos) to verify AI wall placement.
	5. Precision	Revit + 4Revit	Use 3D Points tool in the plugin to model complex/custom structural elements the AI missed.
	5. Precision	Revit + Nebula	View unclear areas in PointCab Nebula (via browser) to clarify geometry before modeling custom families.

Part 3: Architect / Analyst (Analysis & Context)

Goal: Environmental validation and site context.



Status	Phase	Software	Task Description
	6. Context	Revit -> Forma	Open 3D View in Revit. Select "Massing & Site" -> "Send to Forma".
	6. Context	Autodesk Forma	Confirm model geolocation matches the Forma map data (satellite image).
	6. Context	Autodesk Forma	Run Wind Analysis (Comfort/Safety) and Solar Energy analysis.
	7. Review	Revit	Tag any elements that failed analysis for "Retrofit/Demolition" phase.

▲ Critical Handoff Points (The "Gotchas")

- Coordinate Disconnect: If the BIM Manager does *not* set the Levels/Coordinates using **PointCab 4Revit** (Step 3) before the Modeler starts using **aurivus** (Step 4), the AI geometry may float at the wrong elevation. **Always set** the skeleton first.
- **File Size Bloat:** If the **E57** exported for aurivus (Step 1) includes trees, cars, or street noise, the AI will waste time classifying garbage. Crop tight to the building in PointCab Origins first.
- **Version Control:** Ensure the **PointCab 4Revit** plugin version matches the installed Revit version (e.g., 2024 to 2024).

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