

The Low-Voltage Drawing Set Checklist

What a complete residential technology package contains — sheet by sheet. Use it to audit your consultant's (or integrator's) documentation before the set goes out to bid.

LV FLOOR PLANS — ONE PER LEVEL

- ☐ Every speaker located and tagged, coordinated with the reflected ceiling plan
- ☐ Keypads / touchpanels located with mounting heights, coordinated with electrical switching
- ☐ Displays and projectors with niche, blocking, and power/data locations
- ☐ Cameras, wireless access points, and intercom stations located for coverage, not convenience
- ☐ Motorized shade openings identified with power type (wired vs. battery) per opening
- ☐ Every structured-wiring drop tagged and tied to a schedule
- ☐ Conduit runs, sleeves between floors, and pathways between structures shown

RISER / ONE-LINE DIAGRAM

- ☐ System interconnections between floors and to the head-end shown schematically
- ☐ Conduit sizes and fill noted where the electrician stubs pathways
- ☐ Inter-building links (fiber, conduit) documented for every detached structure

EQUIPMENT ROOM & RACK

- ☐ Enlarged equipment-room plan with clearances and service access
- ☐ Rack elevations — every head-end device in its rack position
- ☐ Heat load and dedicated-circuit requirements handed to M/E engineers
- ☐ Ventilation or dedicated cooling designed, not assumed
- ☐ Wall backing, lighting, and floor loading addressed

DETAILS

- ☐ Invisible-speaker plaster sections (framing depth, skim schedule)
- ☐ Display niches with blocking, ventilation, and power/data placement
- ☐ Shade pockets with fascia conditions aligned to the ceiling plane
- ☐ Millwork-integrated devices (touchpanels, speakers) detailed with the casework

SCHEDULES & SPECIFICATION

- ☐ Device schedule — every device typed, located, and counted
- ☐ Drop schedule — every cable run with origin, destination, and cable type
- ☐ Keypad engraving schedule — button-by-button, room by room
- ☐ Manufacturer-agnostic specification: performance requirements, not one dealer's part numbers
- ☐ Wiring standards, programming scope, and commissioning requirements in writing
- ☐ Closeout obligations: documentation and administrative credentials delivered to the OWNER

COORDINATION CHECKPOINTS

- ☐ Electrical: switching philosophy, gang discipline, and keypad alignment resolved
- ☐ Mechanical: equipment-room heat load in the Manual J / equipment schedule
- ☐ Framing: backboxes, niches, and pockets located before framing closes
- ☐ Millwork: device cutouts and ventilation in the shop drawings
- ☐ Schedule: rough-in walk before insulation; commissioning walk before turnover

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