

Project Summary

- The project is composed of the following major components:
 - Designing and engineering the entire low-voltage cabling infrastructure necessary for telephones, cable/satellite, data (wired/wireless), televisions, home theater, whole home audio, and control. Engineering documents showing all low-voltage cabling, and elevation drawings as necessary, will be provided. Structured wiring patch panel components and all low-voltage trim-out work are also included.

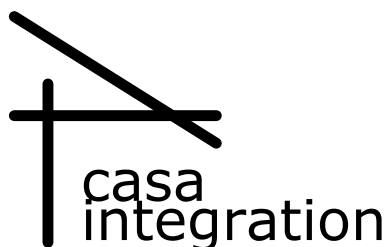
It is envisioned that the client's electrical subcontractor will install the raw cabling to be specified by us. Note that structured low-voltage pre-wiring typically costs between \$1 and \$2 per square foot (i.e., a 5,000 sq. ft. home would cost between \$5,000 and \$10,000 to pre-wire, including cabling and labor). Casa Integration will supply the raw cabling necessary. *Casa Integration can also bid on and perform the pre-wire, if desired; note that the pre-wire is not included in this estimate.*

Rooms designated by the client will have new connections for a telephone (up to 4 lines), LAN/high-speed internet, and cable/satellite television. A secured wireless 802.11n LAN (WiFi) will also be available throughout the home.
 - A video intercom system with an exterior station at the building's entry gate, and an interior station in both the client and neighbor homes. This system will allow for visual and verbal communication with visitors, and also the ability to release the gate door from the interior intercoms.
 - A cellular antenna repeating system. This will provide coverage to the interior of the home equivalent to that on the home's roof.
 - A 65" TV with 5.1 surround sound in the Great Room. The front, center and surround speakers will be in-ceiling models. The subwoofer will be housed in client-supplied custom cabinetry. The TV will be mounted in to the custom cabinetry on an arm mount, which will provide a "floating" effect, and also make maintenance/access easy. Video sources will be high definition cable TV or satellite service, a Blu-Ray/DVD/CD player, and an AppleTV. This room will also participate in the whole home audio system (see below).

The system will be operated via a custom-programmed remote control, providing for simple, one-touch operation.
 - A 46" TV with stereo sound in Cathi's Office. The speakers will be in-ceiling models. The TV will be wall-mounted using an arm mount. Video sources will be high definition cable TV or satellite service, and an AppleTV. Source audio will be heard over the TV's speakers. This room will also participate in the whole home audio system (see below).

The system will be operated via a custom-programmed remote control, providing for simple, one-touch operation.
 - A 55" TV in the MBR. The TV will be wall-mounted using an arm mount. Video sources will be high definition cable TV or satellite service, and an AppleTV. Source audio will be heard over the TV's speakers. This room will also participate in the whole home audio system (see below).

The system will be operated via a custom-programmed remote control, providing for simple, one-touch operation.



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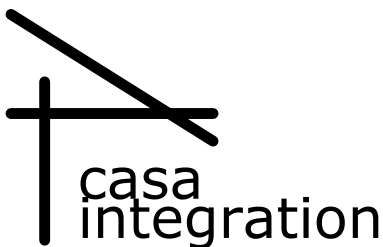
8/28/14

Summary

- The following rooms/areas will be pre-wired: Entry Doors (surveillance cameras)
- Multi-source, multi-zone whole home audio (WHA), in the following rooms/areas: 1) Great Room (5.1 speaker system), 2) Cathi's Office (2 in-ceiling speakers), 3) Cathi's Office Deck 201 (1 planter-style single-point stereo speaker), 4) MBR (2 in-ceiling speakers), 5) MBR Sitting Room (2 in-ceiling speakers), 6) MBR Bath (1 single-point stereo in-ceiling speaker), 7) Deck 301 (1 planter-style single-point stereo speaker), 8) Deck 304 (1 planter-style single-point stereo speaker), 9) Kitchen (2 single-point stereo in-ceiling speakers), 10) 6) Living Room (2 in-ceiling speakers), and 11) Dining Room (2 in-ceiling speakers).
- All equipment will be mounted in an equipment rack and low-voltage patch panel in the Hall Closet. This location must be a well-ventilated space, 2' wide X 2' deep, with at least 7' of height.

Pricing Summary (details are on the following pages)

Item/Room	Equipment	Service	Total	% of Total
All	\$ 10,350	\$ 7,320	\$ 17,670	42.3%
Great	\$ 7,360	\$ 720	\$ 8,080	19.3%
Cathi's Office	\$ 3,745	\$ 600	\$ 4,345	10.4%
MBR	\$ 3,745	\$ 480	\$ 4,225	10.1%
Deck 201	\$ 795	\$ 70	\$ 865	2.1%
MBR Sitting	\$ 845	\$ 70	\$ 915	2.2%
MBR Bath	\$ 745	\$ 70	\$ 815	2.0%
Deck 301	\$ 795	\$ 70	\$ 865	2.1%
Deck 304	\$ 795	\$ 70	\$ 865	2.1%
Kitchen	\$ 1,145	\$ 70	\$ 1,215	2.9%
Living	\$ 945	\$ 70	\$ 1,015	2.4%
Dining	\$ 845	\$ 70	\$ 915	2.2%
	\$32,110	\$10,840	\$41,790	100.0%



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8/28/14

Summary

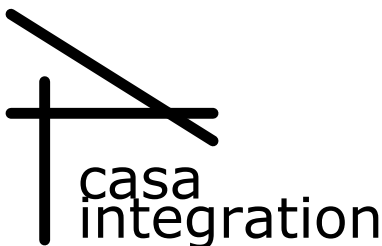
Equipment and Parts

Room	Item	Part	Qty	Cost	%	Notes
All	Structured Wiring Trim-Out	Various		\$300	0.9%	Plates, jacks, terminations, etc.
All	Structured Wiring Patch Panel	Various		\$300	0.9%	Telco, data, CATV/Sat panels
all	Cable Modem/Telephony Interface	Arris 822TG	1	\$150	0.5%	Buy vs. rent from Comcast
All	Gigabit Router	Asus Dark Knight	1	\$160	0.5%	
All	16 Port Gigabit Sw itches	Trendnet TEG-S16DG)	2	\$200	0.6%	Wall jacks and rack
All	Sw itch Rack Mount Ears	Trendnet ETH-11MK	1	\$15	0.0%	
All	IP Pow er Supply	Wattbox WB-200-IPCE-8	1	\$350	1.1%	Self-heals Netw ork
All	Uninterruptible Pow er Supply	Episode EP-400-UPS-8PS-825	1	\$100	0.3%	
All	WiFi Access Points	Ubiquiti UAP A C	2	\$560	1.7%	Commercial grade
All	Equipment Rack/Shelves/Pow er	Strong SM-RACK-42U-PKG	1	\$1,200	3.7%	
All	Additional Rack Pow er	Wattbox WB-11-LIGHT	2	\$240	0.7%	
All	Video Intercom: Gate Stations	ICRealtime IHC6220	1	\$400	1.2%	Supports CardKey Entry
All	Video Intercom: Interior Station	ICRealtime IHD7210	2	\$1,000	3.1%	
All	Video Intercom: Pow er/Sw itch	ICRealtime ISH1030	1	\$100	0.3%	
All	8 Channel Amplifier	Episode EA-AMP-8D-70A	1	\$900	2.8%	Sonos Whole Home Audio (70 WPC)
All	12 Channel Amplifier	Episode EA-AMP-12D-70A	1	\$1,150	3.6%	Sonos Whole Home Audio (70 WPC)
All	100' 18/2 Pow er Wire	Various		\$100	0.3%	
All	500' 14/2 Speaker Wire	Binary SP-142-500-WHT		\$250	0.8%	
All	1,500' 14/4 Speaker Wire	Binary SP-144-500-WHT		\$1,500	4.7%	
All	2000' Cat6 Cable	Binary NST-CAT6-1000-BLU		\$400	1.2%	
All	1000' RG6 Quad Shield Coax	Binary SP-RG6Q-SC-1000-BLK		\$200	0.6%	
All	Cellular Repeating Antenna System	Wilson 841262	1	\$425	1.3%	
All	Low -V oltage Rough-In's	Various		\$250	0.8%	
All	Miscellaneous	Interconnects, terminations, etc.		\$100	0.3%	All equipment connections, etc.
Great	65" LED/LCD Flat Panel TV	Samsung UN65H7150	1	\$2,200	6.9%	
Great	Arm Mount	Chief TS525TU	1	\$375	1.2%	
Great	A/V Receiver	Yamaha Aventure RX-A1040	1	\$1,180	3.7%	
Great	Internet Streamer	AppleTV	1	\$100	0.3%	
Great	Blu-Ray/DVD/CD Player	Sony BDP-S5200	1	\$110	0.3%	
Great	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
Great	In-Ceiling Speakers	Monitor Audio CT 265	5	\$1,250	3.9%	"Bezel-less"
Great	Subw oof er	Sunfire HRS8	1	\$850	2.6%	Top performance/small enclosure
Great	Remote Control System	ProControl 24r	1	\$550	1.7%	One-touch TV operation
Great	HDBaseT HDMI over Cat6	Binary B-500-EXT-230-RS	1	\$400	1.2%	
Cathi's Office	46" LED/LCD Flat Panel TV	Samsung UN46H7150	1	\$1,250	3.9%	
Cathi's Office	Arm Mount	Chief TS525TU	1	\$375	1.2%	
Cathi's Office	HDMI Sw itch	Binary B-220-HDSWTCH-3x1	1	\$125	0.4%	
Cathi's Office	Internet Streamer	AppleTV	1	\$100	0.3%	
Cathi's Office	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
Cathi's Office	In-Ceiling Speakers	Monitor Audio CT-280	2	\$600	1.9%	
Cathi's Office	Remote Control System	ProControl 24r	1	\$550	1.7%	
Cathi's Office	HDBaseT HDMI over Cat6	Binary B-500-EXT-230-RS	1	\$400	1.2%	
MBR	55" LED/LCD Flat Panel TV	Samsung UN55H7150	1	\$1,250	3.9%	
MBR	Arm Mount	Chief TS525TU	1	\$375	1.2%	
MBR	HDMI Sw itch	Binary B-220-HDSWTCH-3x1	1	\$125	0.4%	
MBR	Internet Streamer	AppleTV	1	\$100	0.3%	
MBR	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
MBR	In-Ceiling Speakers	Monitor Audio CT-280	2	\$600	1.9%	
MBR	Remote Control System	ProControl 24r	1	\$550	1.7%	
MBR	HDBaseT HDMI over Cat6	Binary B-500-EXT-230-RS	1	\$400	1.2%	

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8/28/14

**Estimate
Detail**



415.810.1097

Equipment and Parts (continued)

Deck 201	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
Deck 201	Planter-style Single Point Stereo Speaker	Niles PS6Si	1	\$450	1.4%	
MBR Sitting	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
MBR Sitting	In-Ceiling Speakers	Monitor Audio CT-265	1	\$500	1.6%	
MBR Bath	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
MBR Bath	In-Ceiling Speaker	Monitor Audio CT-180T2	1	\$400	1.2%	
Deck 301	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
Deck 301	Planter-style Single Point Stereo Speaker	Niles PS6Si	1	\$450	1.4%	
Deck 304	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
Deck 304	Planter-style Single Point Stereo Speaker	Niles PS6Si	1	\$450	1.4%	
Kitchen	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
Kitchen	In-Ceiling Speakers	Monitor Audio CT-180T2	2	\$800	2.5%	
Living	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
Living	In-Ceiling Speakers	Monitor Audio CT-280	2	\$600	1.9%	
Dining	Whole Home Audio	Sonos Connect	1	\$345	1.1%	
Dining	In-Ceiling Speakers	Monitor Audio CT-265	1	\$500	1.6%	
				\$32,110	100.0%	



415.810.1097

8/28/14

**Estimate
Detail**

Services

Item	Man Hours	Cost	
Design/Consultations	2	\$280	"All"
Engineering	4	\$560	"All"
Install and Configure:			
Rough-In	3	\$420	"All"
Pre-Wire Certification	2	\$280	"All"
Trim Out	2	\$280	"All"
Patch Panel	6	\$840	"All"
Local Area Network (Wired/Wifi)	2	\$280	"All"
Video Intercom	3	\$420	"All"
Whole Home Audio System	2	\$280	"All"
Rack Configuration	8	\$1,120	"All"
System Programming	4	\$560	"All"
Testing and Training	2	\$280	"All"
Cellular Repeating System	1	\$140	"All"
Cleaning/Refuse Removal	2	\$280	"All"
Assistant's Labor	24	\$2,160	"All"
Great Room	6	\$840	
Cathi's Office	5	\$700	
MBR	4	\$560	
Deck 201	0.5	\$70	
MBR Sitting	0.5	\$70	
MBR Bath	0.5	\$70	
Deck 301	0.5	\$70	
Deck 304	0.5	\$70	
Kitchen	0.5	\$70	
Living Room	0.5	\$70	
Dining Room	0.5	\$70	
	86	\$10,840	



415.810.1097

8/28/14

**Estimate
Detail**

Terms and Conditions

- All work is performed on a time and materials, at-will basis. Labor charges will be the actual time in hours spent multiplied by \$140 (assistant's labor is billed at \$90/hour), which may be less than this estimate, but no more than 15% higher.
- 25% of the estimated project cost is required upon acceptance of the initial project summary as a deposit/retainer. No work will be scheduled or performed by us on the project until this retainer is received.
- 50% of the estimated project cost is required upon acceptance of the final equipment pricing schedule (reflecting current market pricing at the time) and prior to the commencement of the installation. This typically occurs approximately 30 – 45 days prior to move-in. No installation work will be scheduled or performed by us until this pre-installation payment is received.
- The final payment reflecting the net balance is due upon client acceptance of the products and services provided.
- Payments made by credit card for invoices greater than \$1,000 will be subject to a 3% service charge.
- Invoices are payable upon receipt.
- All equipment costs exclude delivery, and/or shipping.
- Casa Integration services and the products supplied are guaranteed to the client's satisfaction.

Client Signature

Client Name

Date



415.810.1097

8/28/14

**Terms &
Conditions**

Change Summary

- Version 1 on August 2, 2014
- Version 2 on August 28, 2014, updated with the following changes:
 - Source audio in Cathi's office will be heard over the TV's speakers
 - An arm mount will be used for the TV in Cathi's office
 - Pricing corrected for the arm mounts used for all TV's



415.810.1097

8/28/14

**Pre-Build
Change Log**