

G & N Repair & Technology

“Giving You Options Beyond Others”

19631 490th Street • Aldrich, MN 56434 • Tel 218.445.5534 • Fax 218.445.5125

Custom Designed

for

YOU THE CLIENT

G & N Repair & Technology has been in business since 1982. We are Licensed/Bonded and Insured. We are known as System Integrators, with factory training and continuing education in all areas of low voltage, including TV/DSS – Multi-room Audio/Video – Keypads, Touch Screens – Remotes allowing One Button Control of an unlimited amount of equipment. We can do Complete Networking or upgrades including Wireless options. We also have Phone Systems – Intercom/Doorbell Systems – Closed Circuit TV allowing your front door or driveway to be monitored on your TV or viewed remotely – Security Systems – Automation Control – Lighting Options – Motorized Window Treatment – Temperature Control – Low Temperature Warnings – Motion Detection – Sump Pump Monitoring – Environmental Awareness – Driveway Sensors – Motorized Gate Controls and Central Vac. We realize that building or remodeling a house can be a very stressful time. Carpenters, Electricians, Plumbers, Landscapers are all coming to you for immediate decisions. At this point in time the main concern is to get the structure up, landscaping done and moved in. It isn't until the furniture is in and your ready to sit down, relax and enjoy the new surroundings that the realization hits, you have forgotten about the technology part of the house. That's why G & N Repair & Technology is there for you.

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Dear Homeowner:

Our goal at G & N Repair & Technology is to expose you to all types of different options and lifestyles before you build, rather than have you find out about some type of technology or style of equipment that is not compatible with your finished house. Our job is to design your home in such a way that anything you want to add in the future is possible with very little effort. As a result, we prefer to install PVC in your house at the Rough in Stage and not install any wire, other than speaker and security locations. This takes a lot of pressure off from you the homeowner, allowing you to concentrate on the main structure of the house. At Trim Out we will then overview with you on the initial layout of your furniture and what your expectations of lifestyle are for the first year or so. What is nice about the way we design your project is the open architecture. That means you can complete your project now or in 5 years and there is no pressure.

We're Factory Certified for Sales and Installation of the following Product Lines:

Lutron Homeworks, HomeServe, or Radio RA. Which are complete Lighting Solutions, Plus a Garage Door interface allowing control of 7 Functions with 2 – 4 doors. Which could be installed in multiple homes allowing one opener to work lights and doors in different homes. We can control any type of device either high voltage or low voltage, or be controlled from a contact closure, RS 232 or 485 interface. This product can be installed in new construction or retrofit, we have no limits when it comes to this product.

Shading Solutions by Vimco utilizing Sivioa's Ultra-Quiet Motorized Drive System...by using these drive systems we can keep your window treatments within 1/16 of one another for complete uniformity.

Elan has a complete line ranging from Touch Screens, Wall Keypads, Multi-Sourcing of both Video and Audio.

Aegis Systems or HAI, which offers an Automation Interface with up to 64 Thermostats, and up to 176 Zones of Security, with a Web Server Interface Option. With this system you have unlimited options of arming, so homeowners can create and name as many different situations as a Homeowner's Life Style demands.

Panasonic Telephone Systems allowing full house intercom options. Imagine being able to answer your front door or gate intercom station from anywhere in the world or just out in the backyard with the ability to open the door or gate allowing entry.

Niles Audio, Russound, Xantech, Proflex and Monster Cable complete our line of Multi-Room Audio solutions plus remote control options from anywhere in the house. As a System Integrator we can allow the homeowner to control any of the above as well as an unlimited amount of other equipment on the market from any source meaning that from the Lighting System, Security System, Gating Solutions, Telephone System, Audio System, Cell Phone, Web Browser, Laptop, or on the Internet from anywhere in the world you have control of your home and/or video monitoring options.

When we design a home, we keep all Area's as Individual Sub Systems that can function completely on their own. This means if any system fails the other systems keep on operating or if you want to upgrade you only have to deal with the one system, not have to replace everything.

Following is a Lifestyle and Preference Checklist to help you make decisions of what might be of interest to you now or in the future. After you have filled out the checklist we can go over your blueprints and see what it would take to make your dreams a reality.

Confidential Design – Lifestyle & Preference Checklist

Date_____

Client_____ Spouse_____

Home_____ Cell_____ Cell_____

Work_____ Work_____ Work Fax_____

Email_____ Home Fax _____

Children_____

Home Address_____ Site Address_____

Site Directions_____

Change Orders authorized by_____ Phone_____

Contractor_____ Phone_____

Electrician_____ Phone_____

Plumber_____ Phone_____

Landscaper_____ Phone_____

Painter_____ Phone_____

Interior Designer_____ Phone_____

What type of Face Plate Style and Color will you want to incorporate into the design?_____

Please check the items that will be of interest to you either now or maybe a few years down the line. Also, answer Y/N so there is no assuming on either side.

The following pages will help us in the design of the project to keep your options open now and in the future.

Distributed Audio provides music throughout the residence from a single equipment source.

1. Is your typical listening level?

a) Background Location?_____

b) Rock and Roll Location?_____

c) Combination of a&b Location?_____

2. Will you have a special listening area? Y / N If yes, list where_____

3. Do you have existing equipment that you want to incorporate into the design? Y / N

If yes, list where_____

4. Do you want to remotely access your audio equipment? For example, a keypad or a remote control in the master bedroom? Y / N If yes, list where_____

5. Should we integrate the audio components to provide Home Theater and Surround Sound?

6. Should we include an outside area or areas such as patios and gardens? Y / N If yes, do you want to control options outside? Y / N

7. Do you want Multi-Sourcing, which means you can have different types of music or the TV playing at the same time in different zones? Y / N

8. Do you want Global Control, which means from any area in the home you could turn the whole system on or off? Y / N

9. When the TV turns on, do you want it to automatically take over the speakers that the background music was playing on and when turned off, to roll back over the music again? Y / N

Distributed Video provides video signals from a single source location throughout the residence.

1. Should we design the coax system to support Distributed Video? Y / N
- a) Should we have HDMI options? Y / N If yes, to what locations? _____

- b) Should we have Composite Video options? Y / N If yes, to what locations? _____

2. Should the design include inputs from the satellite dish? Y / N
3. Did you know you are unlimited on the amount of receivers you can add to your system as long as we plan for it. How many receivers would you want to plan for? _____

4. Do you want an outside camera (main entry, courtyard or driveway) integrated into the TV System? Y / N
5. Do you want surveillance cameras in any other locations? Y / N If yes, to what locations? _____

6. Do you want to view your house remotely or record activity of people coming and going? Y / N
7. Will your video system include...
- a) VCR's? How many? _____ Where? _____
- b) DVD Player? Where? _____
- c) DSS Satellite? How many? _____ Where? _____
- d) Antenna Systems? Radio? TV? Scanner? Where? _____
- e) Wireless Internet? Where? _____
- f) Computer Interface? Where? _____
- g) i-Pod? Where? _____
- h) XM or Sirius Radio? Where? _____
- i) Wall Art? Where? _____
8. Do you want a big screen TV incorporated into the design? Y / N Locations? _____
9. Do you want any locations prepared for projection TV? Y / N Locations? _____

10. Will you need TV's at any other locations? Y / N Where? _____

11. Are you interested in DirecTV, Dish Network or Cable? Y / N Circle one or combination

12. Where would you want it mounted or located in regards to the house? _____

Example: This is a cosmetic question...do you want the satellite or antenna equipment hidden from view? Do we need to address a special area for this equipment due to wire/cable needs.

13. Would you want to be able to watch Satellite TV from any TV in the house? Y / N

Integrated telephones provide control of many functions, including remote control gate or door access, intercom, paging, and many other features.

1. Should we include telephone intercom and paging into the design? Y / N

2. Do you want a door phone or gate intercom integrated into the phone system? Y / N Which doors? _____

a) Do you want an access control system incorporated into the front door or gating system? Y / N

Example: The doorbell rings, instead of going to the door you could answer the door through any telephone including your cordless from out on the patio.

3. Will you need multiple phone lines at your residence? Y / N How many? _____

a) What type of High Speed Internet options do you need & where? _____

b) Will there be a need of Fiber Optic locations? Y / N If yes, where? _____

c) Will there be any Voice Over IP options? Y / N If yes, where? _____

4. Will you require a Fax or Data area or extra lines for them? Y / N

5. Do you want faxes to go straight to the fax and not have the phone ring? Y / N

6. Does anyone in the family have a hearing problem? Y / N
7. Should we incorporate an answering machine/voice mail into the design? Y / N If yes, where? _____
8. Should we incorporate multiple line cordless phones into the design? Y / N
9. Would you like Cellular backup emergency Communications? Y / N
10. For security reasons would you like your phone lines to come into the house underground? Y/N

Networking Options

1. Will there be a server location? Y / N If yes, where? _____
2. Do you want a hardwired network? Y / N If yes, where? _____
3. Do you want a wireless network? Y / N If yes, where? _____
4. Will there be backup drives? Y / N If yes, where? _____
5. Will there be any specialized type of networking gear that will need to be installed? Y / N If yes, where? _____

Integration of energy management into a home control system provides convenience and energy savings.

1. Will the residence be occupied on a full time basis? Y / N If no, please indicate the periods when the house will be occupied. _____
2. What type of heating?
- a) Radiant
 - b) Forced Air
 - c) In Floor or Baseboard

3. Energy Source?

a) Natural Gas

b) Propane

c) Fuel Oil

d) Electric

e) Wood

4. Supplemental Heat (a-Radiators, b-Towel Warmers, c-Space Heaters, d-Fire Places, e-Electric Floor Heat, etc.? Y / N

a) Would you like to be able to turn these areas or devices off when house is not occupied? Y / N If yes, which of the above? a b c d e

5. Would you like to access the house by telephone or with internet to change the temperature prior to your arrival, or to turn down the temperature after you have left or to check on the temperature remotely? Y / N

6. Would you like external control of your hot water heater or circulator pump when the house is unoccupied? Y / N

7. Will there be a pool or spa that need remote control operations? Y / N

Lighting Control is a standard feature of Integrated Home Management Systems and provides lighting based on schedules, conditions, scenes, or a combination of above.

1. Do you want interior lights on when a fire condition occurs? Y / N

2. Should outside lights trip on, in an emergency or attempted break-in? Y / N

3. Would you like automatic scene lighting designed for situations like entertaining, movie time, or for security reasons? Y / N

4. Will you have landscape lighting that you would like to incorporate into the system? Y / N

5. Would you like control from remote areas of the house, possibly a Global On command? Y / N

6. Would you like driveway sensors that alert you within the residence when a car or person approaches? Y / N

7. Would you like security signs to flash when people arrive at your residence? Y / N

8. Would you like to have automatic lighting when cars approach? Y / N
9. Would you like a keyless entry option? Y / N
10. Should the design integrate the opening of the gate or door remotely by telephone? Y / N
11. Will there be a generator backup? Y / N If yes, what will it run? _____
-

Water Management by the Integrated Home Management System provides ease of operation and savings.

1. Do you want the system to control irrigation based on need, outside temperature, schedule, and/or exceptions? Y / N

Example: The sprinklers would not come on when you're entertaining.

2. How many irrigation zones are planned? _____
3. Will there be indoor or outdoor fountains? Y / N If yes, do you want control of them? Y / N

Appliance Control by an Integrated System has significant energy savings and safety features.

1. Will there be heat tapes used on the roof valleys or drain tiles? Y / N If yes, do you want control of them? Y / N
2. Will you have any snowmelt on sidewalks or driveways? Y / N If yes, do you want control of them? Y / N
3. Will you have any rooms requiring accurate temperature, or humidity control and monitoring? Y / N If yes, which rooms? _____
4. Do you want the ceiling fans controlled by the system based on the temperature of the room? Y / N If yes, which rooms? _____
5. Do you want major electrical appliances turned off automatically when the house is unoccupied? Y / N If yes, which appliances? _____

6. Would you like to control your fireplace by TV remote control or by Keypad Scene Control? Y / N
If yes, it is very important to get the right model; some models don't accept outside commands.

7. Would you like to have remote control of windows or blinds? Y / N If yes, which ones as they will need special wiring and/or interface options. _____

Indoor air quality and health concerns can be incorporated into the Home Management Systems to provide a comfortable and enjoyable environment.

1. Is there any family members or friends that suffer from allergies or hay fever? Y / N

2. Is there anyone that suffers from chemical sensitivity or chronic fatigue syndrome? Y / N

3. Any special concerns or considerations? _____

Central Vacuum's help to keep the dust and allergy problems down in the homes, plus to eliminate noise pollution in the home. They work well for cleaning vaulted ceilings. If Vac Pans are installed it eliminates having to bend over for dustpans. With a 14" floor brush you eliminate scratching your floors when sweeping. To empty the Vac Unit simply dump it, rinse canister out and wash out filter then your back in operation.

1. Would you be interested in a Central Vacuum? Y / N

2. Would you be interested in VAC Pans? Y / N If yes, what locations? _____

Example: Kitchen toe kicks and Bathroom toe kick areas.

3. Would you be interested in a Garage Kit for the car? Y / N

4. Would you be interested in extra hoses for different area? Y / N If yes, what areas? _____

5. Would you like an extra cartridge filter so you don't have to wait for your first filter to dry when cleaning your vac system? Y / N

Environmental Protection is provided on a 24 Hour basis. Would you like the design to include the following warnings on or off premises?

1. Low Temperature Warning? Y / N

- 2. Loss of AC Power? Y / N
- 3. Water leaks, floods, or sump pump failure? Y / N
- 4. Radon Gas? Y / N
- 5. CO2 Gas? Y / N
- 6. Alert that generator is running? Y / N

Security and Safety is a standard feature in Integrated Home Management Systems.

- 1. Will you typically arm your security system at night, when in the residence? Y / N
- 2. Will there be original art or collectibles in your home requiring special protection? Y / N
- 3. Should there be a safe or a vault designed into the blueprint? Y / N
 - a) Is there a Gun Cabinet(s) that you would want monitored so you know when somebody opens the door on it or to have access control on it? Y / N
 - b) Is there a pool or hot tub area that needs monitoring or access control to these locations? Y / N
- 4. Security Screens can protect the open window against entry on a 24 Hour basis: Would you want the 24 Hour protection option on the windows or only when the system is in the armed mode or a combination of both? Y / N Circle one or combination
 - a) Should screens be used on all operable windows? Y / N
 - b) Should they be used for night ventilation windows? Y / N
- 5. Will elderly family members live in or visit the residence? Y / N
- 6. Are there any special considerations?
 - a) Hard of hearing?
 - b) Blind?
 - c) Medical conditions?
 - d) Pets?
 - e) Young children?

Example: Lights turn on automatically in hallway and stairways after dark or for a predetermined time.

7. Would you like a 24 hour portable emergency button that will summon assistance from anywhere in the house? Y / N

8. Should the design protect skylights and fixed glass from break-ins? Y / N

9. Would you like your security system to defeat garage door openers in the armed state? Y / N

10. Would you like outdoor strobes and sirens and/or flashing yard signs? Y / N

11. Would you like awareness control of whether the system is armed or disarmed from outside the house? Y / N

12. Would you like the option of having additional keypads? Y / N

Example: In the master bedroom, touch one button and shut all the lights off in the house. Hear a noise at night, with the touch of one button light up the whole house.

13. Would you like to be able to arm and disarm the system with Key Fobs? Y / N

Central Fire and Smoke Protection is integrated into the home management system and will awaken everyone in the residence at the first sign of a fire at the same time the fire department is dispatched.

1. Would you like thermal fire sensors located in the high danger areas (mechanical, laundry, garage, kitchen)? Y / N

2. Would you like emergency lighting to automatically turn on in the hallways and bedrooms in a fire alarm condition? Y / N

3. Would you want the propane or natural gas feed to automatically shut off in a fire alarm? Y / N

4. Will anyone stay in the residence that is hard of hearing? Y / N

5. Should the gate automatically open in a fire alarm to allow access by the fire department? Y / N

6. Should the ventilation system automatically shut down if there is smoke present? Y / N

Note: Smoke detectors are normally included in the design per code requirements; line voltage (110V) normally installed by electrician. Some times your insurance company requires system smoke detectors for an insurance break. Should we add in system detectors? Y / N If yes, where do you want them. _____

Please list any other considerations that we should incorporate into the design. _____

Completing the Checklist would comprise the scope of work that would need to be done to meet these needs. By using the completed Checklist we can verify that your expectations can be met down the road as construction proceeds. We break the project down into five phases, as these projects normally take more than a year to complete. We like to keep your system flexible as a result. To fulfill these options we strongly recommend that we pre-plumb the project in order to have access and flexibility as the project progresses. Our goal with this checklist is to have you the client, give us definite yes/no answers that would create a signed contract, which in turn would cover the scope of the work. Once we have overviewed the checklist we will be able to create a finalized version of this Checklist, which can be upgraded with change orders.

Checklist Submitted By: _____ Date: _____

Checklist Accepted By: _____ Date: _____

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