



HOME ENERGY EFFICIENCY PROPOSAL



MS. HAPPY CLIENT
123 Happy Lane
Smileville, MI 12345
123-456-7890

Age of Home: 1987
Energy Consultant: Amanda Godward

YOUR PRIORITIES AND CONCERNS

#1 THE 2ND FLOOR IS HOT IN THE SUMMER TIME. YOU ARE HAVING TO ADJUST VENTS AND EVEN RUN THE A/C SYSTEM EXTRA TO TRY TO GET IT COOLED OFF.

#2 THE LIVING ROOM IS COLDER IN THE WINTER AND YOU ARE NOT ABLE TO USE THE ENJOY THE SPACE IN THE WINTER TIME LIKE YOU HAD HOPED.

#3 REDUCING YOUR CARBON FOOTPRINT IS IMPORTANT TO YOUR FAMILY AND YOU WANT TO MAKE YOUR HOME AS EFFICIENT AS POSSIBLE.

#4 YOU WOULD LIKE TO FINISH THE BASEMENT AS SOME POINT AND WANT TO MAKE SURE THAT EFFICIENCY IMPROVEMENTS ARE MADE BEFORE THE AREAS ARE COVERED IN DRYWALL.

APPRECIATE THE OPPORTUNITY TO HELP YOU

Your home is important to us, and we appreciate the opportunity to help create a happy, healthy, and comfortable place for you and your family. Below are a few of the unique ways we help you have peace of mind that you are working with the best company.

QUALITY RESULTS WITH TESTING BEFORE & AFTER

As an award-winning home performance contractor, we identify the source of your concerns with building science, install the customized solutions specific to your home, and confirm the quality of our install to ensure we address your goals.



MAXIMUM VALUE WITH REBATES, FINANCING & PEARL CERTIFICATION

We help you qualify for more than double the rebates from the utility programs, and offer competitive financing to help you maximize your value now. Our elite Pearl Partner Contractor status helps you quantify the improvements to maximize resale value later.



PRICE GUARANTEE WITH TECHNICAL EXPERTISE & AWESOME CUSTOMER SERVICE

Have peace of mind that your concerns will be addressed by our friendly and professional team. We confidently stand behind our professional craftsmanship and competitive pricing with an apples to apples price match guarantee.



Throughout this report you will see easy to follow color coded explanations of how your home is currently operating and customized recommendations to improve your comfort and energy efficiency.

Green = Good


Yellow = Marginal

Red = Poor

HEALTH AND SAFETY — INDOOR AIR QUALITY

CO/Smoke Detectors	Main Floor	N/A/N/A	Recommendations based on Building Performance Institute (BPI) standards and local building code.
	Lower Level	N/A/N/A	
	Bedrooms	N/A/N/A	
	Hallways	N/A/N/A	
Radon	Radon levels previously tested	Tested - Pass	Recommend testing radon levels per EPA standards in summer and winter
	Mitigation system present	No	
Potential Mold	Attic	No	Based only on visual inspections.
	Crawl Space	No	
	Basement	No	
	Other	No	
Potential Asbestos	Attic	No	Based only on visual inspections.
	Boiler pipes / ductwork	No	
	Siding	No	
	Furnace	No	
IAQ	Temperature	Good	Indoor Air Quality readings from AWAIR monitor taken during time of home energy audit.
	Humidity	Marginal	
	CO2	Good	
	Volatile Organic Compounds	Good	
	Microscopic Particulate Matter	Good	
Natural Gas Lines	Gas Meter	No Leak	Call your natural gas provider any time you think there may be a gas leak. DTE: 800-947-5000 Consumers: 800-477-5050
	Dryer	No Leak	
	Oven/Stove	No Leak	
	Fireplace	No Leak	
	Heating Equipment	No Leak	
	Water Heater	No Leak	

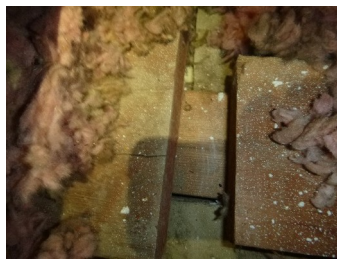
HEALTH, SAFETY & EFFICIENCY — MECHANICAL SYSTEMS

Heating	Current Heating Equipment	Furnace	
	Efficiency: AFUE (Annual Fuel		
	ENERGY STAR Rated Furnace (ref.)	95.0	
	2 Stage or Fully Modulating Heat Source		
	Current Sizing kBtuH		
	Age of Equipment		
	Blower Motor Type		
	Filter Condition		
	Wi-Fi T-Stat		
Cooling	Current Cooling Equipment	Central A/C	
	Efficiency: SEER (Seasonal Energy Efficiency	13.0	
	ENERGY STAR Rated A/C (ref.)	14.5	
	Cooling Stages	Single	
	Current Sizing Tons	4.0	
	Age of Equipment	2013	
	Line Set Insulation Condition	Fair	
Water Heater	Current Water Heating Equipment	Tank	
	Exhaust Leaving Home Under Natural Conditions	Pass	
	Exhaust Carbon Monoxide ppm (Limit 25ppm)	15	
	ENERGY STAR Rated	No	
	Tank Size (gallons)	40 gal	
	Age of Equipment	2010	
Ductwork	Main Location	Basement	
	Secondary Location	Exterior Walls	
	Insulation R-value	4.00	
	ENERGY STAR R-value (ref.)	R-8	
	Static Pressure (0.5 iwc limit)	0.47	
	Connections and Seams Sealed	Yes	



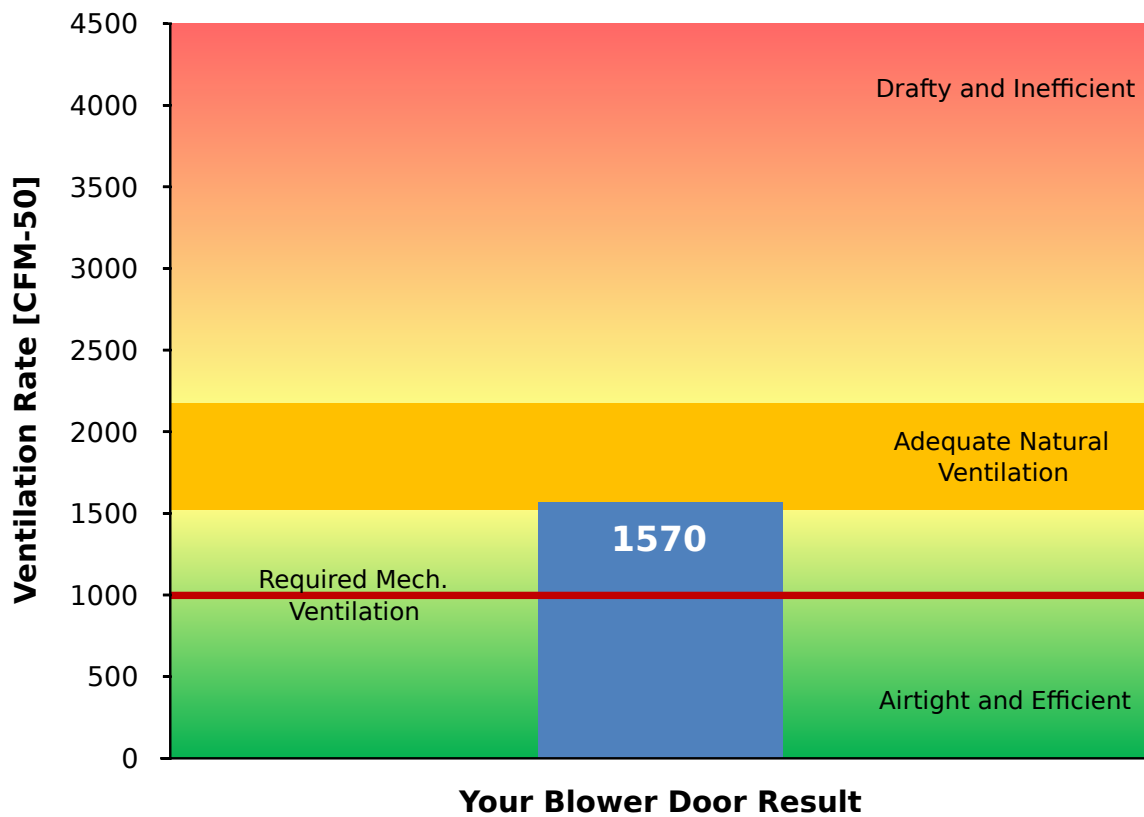
EFFICIENCY — BUILDING ENVELOPE

	ENERGY STAR Insulation	Current Insulation (Thermal Barrier)	Air Sealed (Air Barrier)
Attic (R-value)	49	35.0	No
Exterior Walls (R-value)	20	0.0	No
Knee Walls (R-value)	19	5.0	No
Windows (U-value)	0.3	0.49	Some
Doors (R-value)	5	4.4	No
Rim Joist (R-value)	13	0.0	No
Basement or Slab (R-value)	10	0.0	Yes
Crawl Space (R-value)	19	0.0	No



HEALTH & SAFETY – VENTILATION & BLOWER DOOR TEST

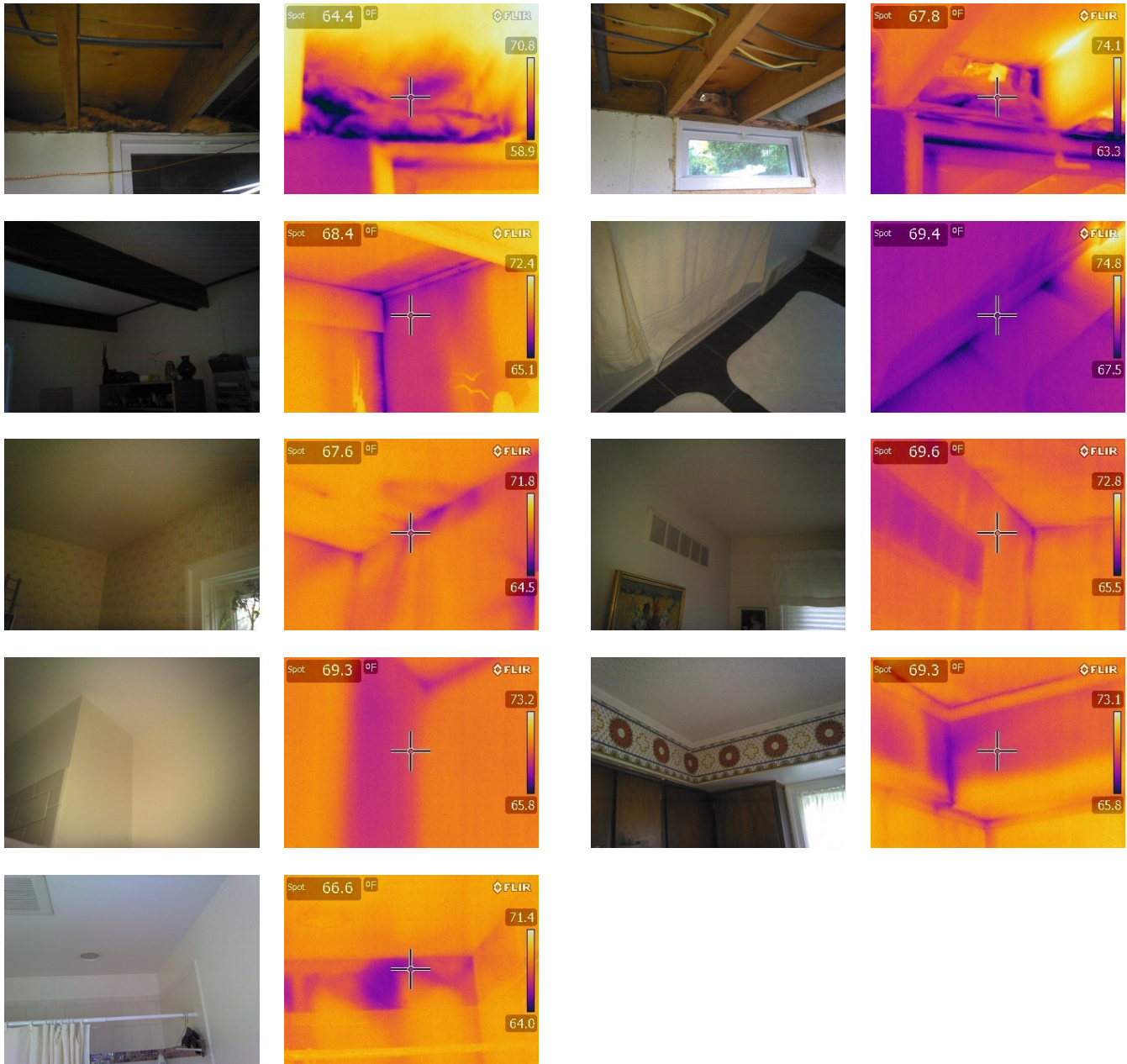
Blower Door Test for Air Leakage Simulating a 20 MPH wind



Mechanical Ventilation Type	Flow Rate/Operation (CFM)	Recovery Efficiency
Supply	64.00	0.0

EFFICIENCY — THERMAL INFRARED IMAGES

Thermal Infrared Image



REVIEWING YOUR PRIORITIES AND CONCERNS

#1 THE 2ND FLOOR IS HOT IN THE SUMMER TIME. YOU ARE HAVING TO ADJUST VENTS AND EVEN RUN THE A/C SYSTEM EXTRA TO TRY TO GET IT COOLED OFF.

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ADDRESSING YOUR PRIORITIES AND CONCERNS

OPTION #1

- Cooling System: Carrier Infinity 25VNA8 3 Ton Heatpump with up to 18 SEER (ENERGY STAR Certified), five stage compressor installed by NATE certified technician. Remove and dispose/recycle existing air conditioner. Pull necessary permits, city inspection to be scheduled upon completion. Warranty 10 year parts and 2 year labor.
- Crawlpace: Remove existing insulation and dispose off site. Install a continuous 12 mil thread reinforced vapor barrier on the ground of the crawl space and seal to the crawl space walls. The 12 mil vapor barrier is naturally mold and mildew resistant, made in the USA, and is rated for light to medium storage. Install a new plywood crawl space access door with new trim to secure door with screws. Homeowner responsible to paint access door. Install R-20 foam board insulation and weather stripping on crawl space access hatch. Install an average of 3 inches of closed cell spray foam on crawl space walls for R-19 and air barrier to meet ENERGY STAR levels. Install a thermal barrier paint over spray foam insulation per code requirements. Air seal and insulate the crawl space rim joist with an average of 2 inches of closed cell spray foam for R-13 and air barrier to meet ENERGY STAR levels. Install a thermal barrier paint over spray foam insulation per code requirements.
- Heating System: Carrier Infinity 59MN7 80kBtu furnace with up to 98.5% AFUE, variable speed blower motor, and modulating heating installed by NATE certified technicians. Install Infinity Touch Wi-Fi thermostat, MERV 8 media air filter, AGA approved gas valve, and vibration isolating pads under raised furnace. Route 2 inch PVC vent system. Custom duct fabrication and installation to reconnect supply and return, install new radial return air duct. Remove and dispose/recycle existing furnace. Pull necessary permits, city inspection to be scheduled upon completion. Warranty 10 year parts and 2 year labor. Install a chimney liner and connect to water heater to mitigate the risk of back drafting the water heater exhaust. Install a condensate pump to route moisture from the furnace or A/C during operation. Install by-pass humidifier.
- Heating System WiFi Thermostat: Install Infinity Touch Wi-Fi thermostat
- Attic: Cut access in ceiling. Reinstall drywall, apply first coat of mud to rough patch. Homeowner responsible for sanding, additional patching as needed, and painting. Install weather stripping around the attic hatch door, insulate hatch with R-10 foam board & R-38 fiberglass batt, and install a wood access box around hatch to hold back attic insulation and provide easier access to attic. Install a new drywall attic access hatch. Install new wood trim around the attic hatch.
- Exhaust Fan: Install Panasonic 110 CFM ENERGY STAR rated white bathroom exhaust fan. Tie into existing wall switch. Direct vent exhaust through R-8 insulated 6 inch tube and out dedicated roof vent. Depending on wiring and current fan mounting additional drywall repair may be required and is homeowner's responsibility to patch and paint.
- Exterior Walls Floor 1: Install dense pack cellulose insulation in 1st floor exterior walls for an average of R-13. Remove at least one course of aluminum siding and drill access holes, plug access holes with pucks, reinstall existing siding. Care will be taken to reduce damage, however there is potential to crease aluminum siding during removal and reinstallation.
- Doors: Seal interior door trim with clear caulk that is paintable upon curing. Caulk tack free time is 60 mins, cure time is 1-14 days depending on temperature and humidity. Caulk is designed for indoor use but can have odor until cured.
- Rim Joist: Open return panning to access rim and re-install. Air seal and insulate the rim joist with an average of 2 inches of closed cell spray foam for R-13 and air barrier to meet ENERGY STAR levels.
- CO / Smoke Detectors: Install Kidde combination CO and smoke alarm.
- Side Addition Walls Floor 1: Install dense pack cellulose insulation in 1st floor exterior walls for an average of R-13. Remove at least one course of aluminum siding and drill access holes, plug access holes with pucks, reinstall existing siding. Care will be taken to reduce damage, however there is potential to crease aluminum siding during removal and reinstallation.

- Knee Walls: Remove existing insulation and dispose offsite. Install an average of 3 inches of closed cell spray foam on knee walls for R-19 and air barrier to meet ENERGY STAR levels. Install a thermal barrier paint over spray foam insulation per code requirements.
- 2" Closed R-14 (per sqft): Install an average of 2 inches of closed cell spray foam on walls for R-14 and air barrier. Homeowner responsible for covering spray foam with drywall rated for thermal and ignition barrier.
- Water Heater: Install 40 gallon, 40,000 BTU power vented water heater exhausted through rim joist with PVC solid core exhaust. Remove and dispose/recycle existing water heater. Pull necessary permits, city inspection to be scheduled upon completion.
- Credit cost of home energy audit.
- Pearl Certification on energy efficiency improvements installed by Ecotelligent Homes. Third party verified improvements, detailed report of all efficiency improvements installed and appraisal certification to value improvements at the time of sale or refinance.
- Ecotelligent Homes' Six Point Quality Assurance Check following your improvement installation. Visual inspection, blower door testing, thermal infrared scan, health and safety testing, results presented in a report with before and after photos, and outline of next steps.
- Floor covers or booties will be used at your home. Your furniture and items stored in the working area will be covered in plastic. The team will clean their worksite at the end of each day and will not store items at the site without permission from the Homeowner. The Homeowner is responsible for clearing access to all applicable attic spaces, rim joists, and/or crawl spaces that are included in this agreement. Specifically, for rim/band joists, Homeowner will provide a three foot access path around the basement perimeter and remove items stored on top shelves. If items are not moved prior to the start of your project, there will be an additional fee of \$80 per man hour to account for the additional time required to prepare your worksite. The amount of removal required for your project, may require a dumpster. The rubber wheeled dumpster must be parked in your driveway. The Homeowner is responsible for having an area in the driveway cleared for the dumpster.

The closed cell spray foam takes at least 12 hours to cure. While a local exhaust fan may be used during install to help minimize the smell, per manufacturer's recommendations, the home should not be occupied during the curing period, especially if sensitive to smells.

Project Cost	\$46,663	3 Day Price	\$43,610
Project Cost After Rebate	\$44,863	3 Day Price After Rebate	\$41,810
Monthly Payment	\$0	Monthly Payment	\$0

ADDRESSING YOUR PRIORITIES AND CONCERNS

OPTION #2

- **Crawlspace:** Remove existing insulation and dispose off site. Install a continuous 12 mil thread reinforced vapor barrier on the ground of the crawl space and seal to the crawl space walls. The 12 mil vapor barrier is naturally mold and mildew resistant, made in the USA, and is rated for light to medium storage. Install a new plywood crawl space access door with new trim to secure door with screws. Homeowner responsible to paint access door. Install R-20 foam board insulation and weather stripping on crawl space access hatch. Install an average of 3 inches of closed cell spray foam on crawl space walls for R-19 and air barrier to meet ENERGY STAR levels. Install a thermal barrier paint over spray foam insulation per code requirements. Air seal and insulate the crawl space rim joist with an average of 2 inches of closed cell spray foam for R-13 and air barrier to meet ENERGY STAR levels. Install a thermal barrier paint over spray foam insulation per code requirements.
- **Attic:** Cut access in ceiling. Reinstall drywall, apply first coat of mud to rough patch. Homeowner responsible for sanding, additional patching as needed, and painting. Install weather stripping around the attic hatch door, insulate hatch with R-10 foam board & R-38 fiberglass batt, and install a wood access box around hatch to hold back attic insulation and provide easier access to attic. Install a new drywall attic access hatch. Install new wood trim around the attic hatch.
- **Exhaust Fan:** Install Panasonic 110 CFM ENERGY STAR rated white bathroom exhaust fan. Tie into existing wall switch. Direct vent exhaust through R-8 insulated 6 inch tube and out dedicated roof vent. Depending on wiring and current fan mounting additional drywall repair may be required and is homeowner's responsibility to patch and paint.
- **Exterior Walls Floor 1:** Install dense pack cellulose insulation in 1st floor exterior walls for an average of R-13. Remove at least one course of aluminum siding and drill access holes, plug access holes with pucks, reinstall existing siding. Care will be taken to reduce damage, however there is potential to crease aluminum siding during removal and reinstallation.
- **Doors:** Seal interior door trim with clear caulk that is paintable upon curing. Caulk tack free time is 60 mins, cure time is 1-14 days depending on temperature and humidity. Caulk is designed for indoor use but can have odor until cured.
- **Rim Joist:** Open return panning to access rim and re-install. Air seal and insulate the rim joist with an average of 2 inches of closed cell spray foam for R-13 and air barrier to meet ENERGY STAR levels.
- **CO / Smoke Detectors:** Install Kidde combination CO and smoke alarm.
- **Side Addition Walls Floor 1:** Install dense pack cellulose insulation in 1st floor exterior walls for an average of R-13. Remove at least one course of aluminum siding and drill access holes, plug access holes with pucks, reinstall existing siding. Care will be taken to reduce damage, however there is potential to crease aluminum siding during removal and reinstallation.
- **Knee Walls:** Remove existing insulation and dispose offsite. Install an average of 3 inches of closed cell spray foam on knee walls for R-19 and air barrier to meet ENERGY STAR levels. Install a thermal barrier paint over spray foam insulation per code requirements.
- **2" Closed R-14 (per sqft):** Install an average of 2 inches of closed cell spray foam on walls for R-14 and air barrier. Homeowner responsible for covering spray foam with drywall rated for thermal and ignition barrier.
- Credit cost of home energy audit.
- Pearl Certification on energy efficiency improvements installed by Ecotelligent Homes. Third party verified improvements, detailed report of all efficiency improvements installed and appraisal certification to value improvements at the time of sale or refinance.
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The closed cell spray foam takes at least 12 hours to cure. While a local exhaust fan may be used during install to help minimize the smell, per manufacturer's recommendations, the home should not be occupied during the curing period, especially if sensitive to smells.

Project Cost	\$20,376	3 Day Price	\$19,043
Project Cost After Rebate	\$19,426	3 Day Price After Rebate	\$18,093
Monthly Payment	\$217	Monthly Payment	\$202

ADDRESSING YOUR PRIORITIES AND CONCERNS

OPTION #3

- Attic: Cut access in ceiling. Reinstall drywall, apply first coat of mud to rough patch. Homeowner responsible for sanding, additional patching as needed, and painting. Install weather stripping around the attic hatch door, insulate hatch with R-10 foam board & R-38 fiberglass batt, and install a wood access box around hatch to hold back attic insulation and provide easier access to attic. Install a new drywall attic access hatch. Install new wood trim around the attic hatch.
- Exhaust Fan: Install Panasonic 110 CFM ENERGY STAR rated white bathroom exhaust fan. Tie into existing wall switch. Direct vent exhaust through R-8 insulated 6 inch tube and out dedicated roof vent. Depending on wiring and current fan mounting additional drywall repair may be required and is homeowner's responsibility to patch and paint.
- Doors: Seal interior door trim with clear caulk that is paintable upon curing. Caulk tack free time is 60 mins, cure time is 1-14 days depending on temperature and humidity. Caulk is designed for indoor use but can have odor until cured.
- Rim Joist: Open return panning to access rim and re-install. Air seal and insulate the rim joist with an average of 2 inches of closed cell spray foam for R-13 and air barrier to meet ENERGY STAR levels.
- CO / Smoke Detectors: Install Kidde combination CO and smoke alarm.
- Side Addition Walls Floor 1: Install dense pack cellulose insulation in 1st floor exterior walls for an average of R-13. Remove at least one course of aluminum siding and drill access holes, plug access holes with pucks, reinstall existing siding. Care will be taken to reduce damage, however there is potential to crease aluminum siding during removal and reinstallation.
- Knee Walls: Remove existing insulation and dispose offsite. Install an average of 3 inches of closed cell spray foam on knee walls for R-19 and air barrier to meet ENERGY STAR levels. Install a thermal barrier paint over spray foam insulation per code requirements.
- Credit cost of home energy audit.
- Pearl Certification on energy efficiency improvements installed by Ecotelligent Homes. Third party verified improvements, detailed report of all efficiency improvements installed and appraisal certification to value improvements at the time of sale or refinance.
- Ecotelligent Homes' Six Point Quality Assurance Check following your improvement installation. Visual inspection, blower door testing, thermal infrared scan, health and safety testing, results presented in a report with before and after photos, and outline of next steps.
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Project Cost	\$7,030
Project Cost After Rebate	\$6,730
Monthly Payment	\$75

3 Day Price	\$6,570
3 Day Price After Rebate	\$6,270
Monthly Payment	\$70

PROPOSAL SUMMARY

OPTION #1

- Cooling System
 - Crawlspace
- Heating System
- Heating System WiFi Thermostat
 - Attic
- Exhaust Fan
- Exterior Walls Floor 1
 - Doors
 - Rim Joist
- CO / Smoke Detectors
- Side Addition Walls Floor 1
 - Knee Walls
- 2" Closed R-14 (per sqft)
 - Water Heater
- Complimentary Energy Audit
 - Pearl Certification
 - QAC
 - Customer Notes

Project Cost	\$46,663
Project Cost After Rebate	\$44,863
Monthly Payment	\$0
3 Day Price	\$43,610
3 Day Price After Rebate	\$41,810
Monthly Payment	\$0

OPTION #2

- Crawlspace
 - Attic
- Exhaust Fan
- Exterior Walls Floor 1
 - Doors
 - Rim Joist
- CO / Smoke Detectors
- Side Addition Walls Floor 1
 - Knee Walls
- 2" Closed R-14 (per sqft)
- Complimentary Energy Audit
 - Pearl Certification
 - QAC
 - Customer Notes

Project Cost	\$20,376
Project Cost After Rebate	\$19,426
Monthly Payment	\$217
3 Day Price	\$19,043
3 Day Price After Rebate	\$18,093
Monthly Payment	\$202

OPTION #3

- Attic
- Exhaust Fan
- Doors
- Rim Joist
- CO / Smoke Detectors
- Side Addition Walls Floor 1
 - Knee Walls
- Complimentary Energy Audit
 - Pearl Certification
 - QAC
 - Customer Notes

Project Cost	\$7,030
Project Cost After Rebate	\$6,730
Monthly Payment	\$75
3 Day Price	\$6,570
3 Day Price After Rebate	\$6,270
Monthly Payment	\$70

Your home's current estimated value according to Zillow

\$600,000.00

Your Pearl Certification added value to your home

*5% increase in value based on latest national study

\$30,000.00

THANK YOU!



248-291-7815



GOVERNOR'S
ENERGY EXCELLENCE
AWARDS



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