

SECTION II - SCOPE OF SERVICES

1. Background

In June of 2020, Ann Arbor adopted one of the nation's most aggressive climate plans – A²ZERO. One of the core tenants of the A²ZERO plan is finding ways to equitably address the climate crisis. Given the importance of equity, the Ann Arbor Office of Sustainability and Innovations, the creator and caretaker for the A²ZERO plan, reached out to colleagues at Community Action Network (CAN) to initiate discussions about what it would look like to center climate activities with and in deep coordination with traditionally underrepresented residents. CAN recommended reaching out to residents of the Bryant Neighborhood (Bryant) to explore what their needs, desires, and opportunities were as it related to equitable climate action.

Fast forward four years and the City, CAN, and the residents of Bryant are working collaboratively to design and implement solutions that will allow Bryant to become the nation's first carbon neutral existing neighborhood. This work is supported by numerous grants, including one recently secured from the Michigan Public Service Commission (MPSC) to support energy efficiency, health and safety improvements, beneficial electrification, and renewable energy adoption in Bryant. Work under this RFP is being funded through this MPSC grant.

Specifically, the MPSC grant supports activities that will lower barriers to access for low-income households looking to embrace clean energy, beneficial electrification, and energy waste reduction solutions. It also works with labor and local businesses to grow the green job industry and recruit more underrepresented constituents into the local green industry workforce. And the entire project, from conception through implementation and evaluation, is done in tandem with residents, giving them power, voice, and decision-making authority of what to do and when, to make the Bryant Neighborhood in Ann Arbor, the nation's first carbon neutral existing neighborhood.

To fulfill this vision, the City's OSI is seeking proposals to undertake six specific sustainability and energy-related services that will be performed in the Bryant Neighborhood of Ann Arbor. Each firm interested in proposing must be able to provide services in at least one of the following areas: weatherization services; mechanical contractor (HVAC) services; electrical contractor services; solar and battery energy storage contractor services; drainage, water, and sewer contractor services; appliance replacement, install, and recycling services.

Firms wishing to perform work for this RFP must provide their own equipment, tools, and materials to successfully complete the work of their trade. The City is not responsible for any costs associated with the proposer's personal equipment needed to perform work under this RFP.

2. Objective

The City of Ann Arbor's Office of Sustainability and Innovations is seeking proposals for qualified firms to undertake work in the at least one of the following six areas as part of the City's efforts to decarbonize the Bryant neighborhood: weatherization services; mechanical contractor (HVAC) services; electrical contractor services; solar and battery energy storage contractor services; drainage, water, and sewer contractor services; appliance replacement, install, and recycling services.

All work awarded under this RFP must be completed within 2 years of contract signing, at the latest.

3. Work Flow

The following represents the workflow that successful proposers will be expected to undertake:

- Following receipt of a project work order the Contractor shall contact the resident to schedule a site visit. This must be completed within 5 days of work assignment.
- At the job site the Contractor shall evaluate the work to be completed and discuss the work with the resident and with the City's project manager prior to proceeding with work. If resident refuses any work, **do not** move forward with any work to the home prior to speaking with the City's designated project manager.
- Mechanical Contractors shall evaluate the mechanical appliances for safe operation.
- The Contractor is responsible for taking any measurements as needed and compiling any requisite documentation.
- The Contractor shall complete the work called for in the work order, notifying the City's designated project manager upon completion. Any work that cannot be completed needs to be discussed and approved by the project manager prior to moving forward with the job.
- The Contractor shall pull permits as necessary with the appropriate jurisdiction.
- The Contractor shall provide submission of invoices and related necessary documentation.
- At a minimum, the Contractor shall meet weekly with the City's project manager to review project progress, challenges, and any necessary modifications.
- The Contractor will provide, at a minimum, quarterly written status reports.
- Throughout this process, the Contractor will regularly submit all payroll verification reports, as required.

4. Designation of Work

The amount of work assigned to any one contractor will be determined through negotiations between the City and the successful Bidder. The amount of work assigned will be partly determined by the Bidder's ability to produce quality work in a timely manner. The City intends to issue contracts only to those Bidders willing and able to perform the services as outlined above. All things being equal the City will assign project assignments to approved Bidders in a rotating fashion in a manner designed to equally distribute the work under this contract.

Non-price criteria for consideration in job award process may include any or all of the following:

A. Work Capacity

- a. The Contractor must be able to complete the work within the time specified. For single unit jobs, the Contractor will have **30 calendar days*** from the time of the preliminary award notice to complete the work so that it is ready for final inspection and approval.

*Note: There may be extenuating circumstances that result in job completion delay. If this is the case, the Contractor must have written permission from the City's project manager to exceed the 30-day time frame.

B. Financial Capacity

- a. The City will monitor the dollar amount of work outstanding at any given time with each Contractor. The City will not issue a Contractor additional work beyond its financial capacity, until some work currently outstanding is completed, inspected, and paid.

C. Inspection Passage Rate

- a. The City will track each Contractor's rate of passing final inspections of jobs completed over the preceding 2-month period.
- b. If the Contractor has an inspection rate passage below 90% for jobs completed over the preceding 2-month period, the City may award more jobs to contractors that are over the 90% passage rate.

D. Job Completion Timeliness

- a. The City tracks each Contractor's record of completing jobs over the preceding 2 months within the timeline specified at the time of the award.
- b. If the Contractor has not completed at least 90% of jobs awarded within the previous 2 months within the timeline specified, the City may award the job to another contractor.

E. Refusal of Work

- a. When a Contractor is preliminarily awarded a job, they have the right to refuse the work. However, the City assumes that the reason for refusal is

that the Contractor does not have the capacity to complete the work within the required timeframe.

- b. If a Contractor refuses one job, the City may assume that the Contractor does not have the capacity and may choose not to offer the next job to that Contractor.

5. Time Period for Scheduling Work

- General Contractor Scheduling
 - The Contractor shall contact the resident and try to schedule a site visit within **5** days of receipt of job assignment. The work shall be completed within **40** days of job assignment. Resident or other factors which delay job completion shall be brought to the City's attention. Any additional or corrective work needs to be completed within **5** days of notification
- Mechanical Contractor Scheduling
 - The Contractor shall contact the resident and try to schedule a site visit within **5** days of receipt of job assignment. In the cases of a **no heat** situation, the City may request a **same day** visit if the Contractor's schedule allows.
- All Other Scheduling
 - The Contractor shall contact the resident and try to schedule a site visit within **5** days of receipt of job assignment. The work shall be completed within **30** days of job assignment. Resident or other factors which delay job completion shall be brought to the City's attention. Any additional or corrective work needs to be completed within **5** days of notification

6. Compensation

Successful bidders to this RFP will be compensated on a per unit basis. The unit depends on the service being provided. For example, work could be compensated per unit of work, per amount of insulation, or per appliance installation completion.

For each service being solicited through this RFP a set price list will be established for the services required.

The pricing provided for this RFP shall be firm for two (2) years. Any Proposal which does not conform fully to these instructions, or the detailed specifications may be rejected. In extenuating circumstances, the City may be open to renegotiating pricing, but this will be at the City's sole discretion.

7. Requirements

- Bidders wishing to perform work under this RFP must hold a Builders License or Mechanical License. **Proposers must include a copy of their license(s) with submission of responses to this RFP.**
- All insurance requirements outlined in this RFP must be met at time of contract signing.

- Proposers must furnish all of their own equipment, tools, and materials to successfully complete the work of their trade. The City is not responsible for any costs associated with the proposer's personal equipment needed to perform services under this RFP.
- Successful bidders for the mechanical contracting work must have EPA Section 608 Certification for Refrigerant Handling (Type I and Type II). <https://ww2.epatest.com/epa-section-608/>

8. Terms of Award

The City anticipates making multiple awards under this RFP. All awards shall be good for a period of two (2) years. All pricing provided by this RFP shall be firm for two (2) years.

Offeror's Proposal

In keeping with the objective, the description, the requirements, and the offeror's tasks as previously indicated in this Request for Proposal, the offerors submitting proposals shall outline in detail the manner in which the offeror shall work with the City to fulfill the City's needs.

The outline at a minimum shall address:

- A. Which of the six (6) trades they would like to bid on through this RFP. Bidders may submit a bid to provide any or all of the identified services including: weatherization services; mechanical contractor (HVAC) services; electrical contractor services; solar and battery energy storage contractor services; drainage, water, and sewer contractor services; appliance replacement, install, and recycling services. Bid forms for areas of work can be requested by emailing the project manager, Jordan Larson (jl Larson@a2gov.org).
- B. Staffing and personnel available to perform desired tasks.
- C. Firm and personnel qualifications
- D. References for similarly completed work
- E. Compatibility with City's standards, goals, and objectives
- F. Information that will assist the City in determining the Consultant's capability to perform the required work.

Section 1 - Weatherization Insulation and SWS Specs
All work must meet SWS minimum standards

Attic Insulation

Unfinished Attic

Open blown cellulose (including chimney barriers, and SWS attic access barriers extending 4" above settled insulation, insulation markers every 300 sq ft, & flagging of junction boxes)

SWS Links

- [4.0103.2 Accessible Attic - Loose Fill Installation](#)
- [4.0103.4 Accessible Attic - Loose Fill Over Existing Insulation](#)
- [4.0188.1 Radiant Barriers \(Chimney and Combustion Flue Vents\)](#)
- [3.0102.1 Sealing Non-Insulation Contact \(IC\) Recessed Light](#)

These ranges assume:
 Some air sealing included
 Standard attic accessibility
 No major prep complications
 such as:

Measure Description	Unit	Price
R-19	SF	\$1.45
R-30	SF	\$1.71
R-38	SF	\$2.01
R-49	SF	\$2.50

- Chimney/fire barrier protection
- Attic access barriers (raised 4")
- Junction box flagging
- Air sealing of IC-rated recessed lights

Unfinished Floored Attic

Blown Cellulose (including chimney barriers, and SWS attic access barriers extending 4" above settled insulation, insulation markers every 300 sq ft, & flagging of junction boxes)

SWS Links

- [4.0103.6 Accessible Attic Storage Platform Floor—Dense Pack Insulation](#)

We install to a minimum density of 3.5 lbs/ft³. This prevents settling and sets you apart from "blown-in" attic insulation contractors who lack the equipment or experience to properly dense-pack.

Measure Description	Unit	Price
2x4	SF	\$0.79
2x6	SF	\$0.59
2x8	SF	\$0.52
2x10	SF	\$0.46

Instruction

- Price - Dense Pack, per SF @1 inch thick/per Board Ft. Ceiling joists thickness: 2x4, 2x6, 2x8, or 2x10*
- Price - Dense Pack, per SF @1 inch thick/per Board Ft. Ceiling joists thickness: 2x4, 2x6, 2x8, or 2x10*
- Price - Dense Pack, per SF @1 inch thick/per Board Ft. Ceiling joists thickness: 2x4, 2x6, 2x8, or 2x10*
- Price - Dense Pack, per SF @1 inch thick/per Board Ft. Ceiling joists thickness: 2x4, 2x6, 2x8, or 2x10*

Greater than 2x10	SF	\$0.46	Price reflects drilling, blocking, and access constraints but does not reflect drywall repair <i>Drywall Repair usually cost \$25 per hole. Drill 3" hole 3 to 4 feet a part per cavity.</i>
-------------------	----	--------	---

Knee Wall Insulation

SWS Links

[4.0104.2 Knee Wall - Batt Insulation](#)

[4.0104.1 Knee Wall - Dense Packing](#)

[4.0104.5 Knee Wall - SPF With No Existing Insulation](#)

Measure Description	Unit	Price	Instruction
R-13	SF	\$2.75	Fiberglass Batts (includes air barrier over fiberglass (tyvek or similar material)
R-19	SF	\$3.25	Fiberglass Batts (includes air barrier over fiberglass (tyvek or similar material)
R-13	SF	\$4.10	Blown Cellulose, Loose fill with netting (including support and attachment of netting)
R-19	SF	\$5.00	Blown Cellulose, Loose fill with netting (including support and attachment of netting)
R-13 = 2" thick	SF	\$7.75	Spray Foam - SPF (Fire Rated)
R-22.75 = 3.5" thick	SF	\$11.50	Spray Foam - SPF (Fire Rated)-Assumes a small to moderate amount of foam scraping.
Tyvek	SF	\$1.75	Tyvek Over Existing Insulation

General Attic Preparation

SWS Links

[3.0102.1 Sealing Non-Insulation Contact \(IC\) Recessed Light](#)

Measure Description	Unit	Price	Instruction
Recessed Light Covers, Install action per spec.	EA	\$60.00	5/8 drywall air sealed enclosure or equal having a height greater than the insulation to be installed will be constructed to ensure a 3" clearance between combustion flue vent and dam per spec (Should be metal)
Chimney & Combustion Flues	N/A	\$225	Added to reduce energy loss through the attic hatch.
Attic Hatch Insulator	N/A	\$175	Added to reduce smell and disinfect
Attic deodorizer and disinfectant	N/A	\$100	Top plates, key penetrations, and garage-to-house connections
Advanced air sealing packages	SF	\$2.50	

Bathroom ventilation improvements	LF	\$35.00	Including proper exterior venting and upgraded controls
Crawl space vapor barriers with sealed seams for moisture control and durability	SF	\$3.25	Reduce moisture penetration

Attic Ventilation

Measure Description	Unit	Price	Instruction
Install Chutes or Baffle Vents at eave edges in attic, per spec.	EA	\$15.00	Between all rafters or Trusses covering the entire width.
Install Soffit Vents per spec.	EA	\$60.00	
Ridge vent	LF	\$26.00	
Gable vent	EA	\$250.00	Passive gable vent
Roof Can - slant back 50 SI	EA	\$200.00	Passive cans
Removal and disposal of ineffective insulation	SF	\$2.50	Depending on the volume, it may require an on-site dumpster. Does not include removal of contaminated insulation requiring special equipment and PPE.
Solar Attic Fan (Roof or Gable) 30 Watts Installed & Operational	EA	\$1,350.00	For roofs with a 4/12 pitch or less, the price = 1,350. For roofs with a 5/12 pitch or more, the price = \$1,550.

Sill Insulation, "Sill Box, Rim Joist, Band Joist"

SWS Links

[4.0401 Band/Rim Joists Insulation](#)

Measure Description	Unit	Price	Instruction
R-10+ (2") SPF fire-rated Class I ins	SF	\$8.50	Fire retardant SPF, Closed Cell @ R-6.5/Inch
			Price includes closed-cell foam with intumescent (fire retardant) applied on top of foam at 14 mil.

Foundation Wall Insulation

SWS Links

[4.0402 Foundation/Crawl Space—Wall Insulation](#)

Measure Description	Unit	Price	Instruction
R-10+ (2") SPF fire-rated Class I ins	SF	\$6.25	Fire retardant SPF, Closed Cell @ R-6.5/Inch
			Price includes closed-cell foam with intumescent (fire retardant) applied on top of foam at 14 mil.

Floor Insulation

SWS Links

[4.03 Floor System](#)

Measure Description	Unit	Price	Instruction
R-19	SF	\$1.65	Fiberglass Batts (includes retaining devise to keep insulation in place, air sealing bypasses, and proper fitting pieces & prep.
R-30	SF	\$1.95	Fiberglass Batts (includes retaining devise to keep insulation in place, air sealing bypasses, and proper fitting pieces & prep.
R-38	SF	\$2.20	Fiberglass Batts (includes retaining devise to keep insulation in place, air sealing bypasses, and proper fitting pieces & prep.
R-19 @ 3.5" Thick	SF	\$6.25	Spray Foam (includes air sealing bypasses & prep)
R-30 @ 5" Thick	SF	\$8.25	Spray Foam (includes air sealing bypasses & prep)
R-38 @ 6" Thick	SF	\$9.75	Spray Foam (includes air sealing bypasses & prep)
R-19	SF	\$2.95	Blown Cellulose, Dense Pack enclosed bonus room floor over garage (includes air sealing bypasses & prep)
R-30	SF	\$3.45	Blown Cellulose, Dense Pack enclosed bonus room floor over garage (includes air sealing bypasses & prep)
R-38	SF	\$4.00	Blown Cellulose, Dense Pack enclosed bonus room floor over garage (includes air sealing bypasses & prep)

Wall Insulation

SWS Links

[4.02 Dense Pack Exterior Walls](#)

Measure Description	Unit	Price	Instruction
R-13, 2x4 Filled	SF	\$3.40	Blown Cellulose, Dense Packed (includes air sealing of all bypasses including but not limited to tops and bottoms of balloon framing)
R-19, 2x6 Filled	SF	\$3.90	Blown Cellulose, Dense Packed (includes air sealing of all bypasses including but not limited to tops and bottoms of balloon framing)
R-13, 2x4 Filled (Brick and interior blow)	SF	\$4.80	Blown Cellulose, Dense Packed (includes air sealing of all bypasses including but not limited to tops and bottoms of balloon framing)
R-19, 2x6 Filled (Brick)	SF	\$5.00	Blown Cellulose, Dense Packed (includes air sealing of all bypasses including but not limited to tops and bottoms of balloon framing)
2x4 Filled	SF	\$8.40	Spray Foam - 3" Thick, Injection Foam (includes air sealing of all bypasses including but not limited to tops and bottoms of balloon

Duct Insulation, Rigid metal duct in unconditioned space

SWS Links

[6.0302.1 Insulating Ducts](#)

Measure Description	Unit	Price	Instruction
R-8+ Duct Insulation	SF	\$9.63	Spray foam, fiberglass with vapor barrier, or similar (Must be secured in place to prevent rodents from entering insulation and air leakage into unconditioned spaces.)

Section 2 - Air Sealing, Windows & Doors - All work must meet SWS minimum standards.

Window Sealing

SWS Link

[3.0201.1 Window Air Sealing](#)

Measure Description	Unit	Price	Instruction
Replace Glass per Sq. Inch	SI		

Storm Windows - Exterior

SWS Link

[3.0201.7 Storm Windows](#)

Measure Description	Unit	Price	Instruction
Install new, includes prep, Metal or vinyl framed, single pane, operable storm.	SF		

Window Replacements

SWS Link

[3.02019 Window Replacement](#)

Measure Description	Unit	Price	Instruction
Install Replacement Style Window - Vinyl Thermal Low-E, per spec.	SF		

Exterior Door Replacements

SWS Link

[3.0202.2 Exterior Doors](#)

Measure Description	Unit	Price	Instruction
Install Install Pre-hung, steel Insulated door, peep hole, & dead bolt lockset.	EA		

Exterior Door Repairs

Door operation and fit - Door will be adjusted to properly fit the jamb and allow for ease of operation (e.g., hinge replacement, re-plane door, door strike)

SWS Link

[3.0202 Exterior Doors](#)

Measure Description	Unit	Price	Instruction
Lockset without Deadbolt, Replaced	EA		
Lockset with Deadbolt, Replaced	EA		
Weather-strip top & sides	EA		
Door Bottoms - Boots or Sweeps	EA		
Cut down door (air flow or to fit better), Exterior or Interior	EA		

Attic Air Sealing - Hatches

All attic accesses must have the same R value of insulation as attic. Barrier must be made of strong material such as 1/2" plywood or OSB, unless roof is too close and will not accommodate. Attic Air Sealing - Hatches - All attic accesses must have the same R value of insulation as attic. Barrier must be made of strong material such as 1/2" plywood or OSB, unless roof is too close and will not

SWS Link

[3.0103.1 Access Doors and Hatches](#)

Measure Description	Unit	Price	Instruction
Attic Access - Existing opening, Weather-strip & Foam Insulation	EA	\$150.00	
Attic Access - Existing opening, Cut new hatch board, rework opening, Weather-strip & Foam Insulation	EA	\$275.00	
Attic Access - Build New complete, Weather-strip & Foam Insulation	EA	\$500.00	
Knee wall Door - New, W/S & Foam Insulation, with latch system	EA	\$400.00	
Knee wall Door - Rework existing, W/S & Foam, with latch system	EA	\$250.00	
Pull Down Stairs / Coffin - Build new wooden surround and lid, w/ foam insulation on top and sides	EA	\$600.00	

SWS Link

[3.0103.3 Whole-House Fan - Operable](#)

Measure Description	Unit	Price	Instruction
---------------------	------	-------	-------------

Whole House Fan - Build air sealed and insulated box with easily opening cover	EA	\$260
--	----	-------

Bypass Air Sealing

SWS Link

[3.010.1 Air Sealing Holes](#)

Measure Description	Unit	Price	Instruction
Air seal - Bottom of Slopes, Under Knee wall, Balloon framing bypasses	LF	\$12.00	
Fireplace Plugs - Air sealing -Fiberglass filled poly bag with Warning Tag or similar design to air seal (must be able to remove and reinstall easily)	EA	\$65.00	
Drywall, tape/mud to air seal, 1 coat, Up to 32 Sq.Ft.	SF	\$9.50	
Drywall, tape/mud to air seal, 1 coat, 32 to 200+ Sq.Ft.	SF	\$7.00	
Caulk (Cracks and small holes)	LF	\$3.00	
Fire Caulk (Chimneys, Vents & Flues)	LF	\$6.50	
Seal holes with rigid materials per this spec. (Up to 1 Sq.Ft.)	EA	\$30.00	
Seal holes with rigid materials per this spec. (If over 1 Sq. Ft., Per Sq.Ft.)	SF	\$18.00	
Recessed Light Retrofit (Halo model# RL560WH-R or similar)	EA	\$120.00	
Seal & Insulate Between 1st & 2nd Floor (Simple - Wood, Vinyl or Aluminum Siding with up to 2 substrates under siding)	LF	\$24.00	
Seal & Insulate Between 1st & 2nd Floor (Complex - Wood, Vinyl, Aluminum Siding or other with up to 3 substrates under siding).	LF	\$32.00	

Crawl Space

SWS Link

[3.0104 Foundation Spaces - Air Sealing Foundations](#)

Crawl Space Access - New:

Measure Description	Unit	Price	Instruction
Insulated access panel, 3/4 Treated Plywood , 2 Zinc Barrel Bolts, W/S, Rigid Foam , R-19 + if has perimeter insulation, Frame opening with Treated 2x8 , Size per spec.	EA	\$475.00	
Uninsulated access panel, 3/4 Treated Plywood, 2 Zinc Barrel Bolts, W/S, if does not have perimeter insulation, Frame opening with treated 2x8, Size per spec.	EA	\$375.00	

Crawl Space Access - Existing Opening:

Measure Description	Unit	Price	Instruction
Insulated access panel, 3/4 Treated Plywood , 2 Zinc Barrel Bolts, W/S, Rigid Foam , R-19 + if has perimeter insulation, Existing opening meets spec. no framing needed, per spec.	EA	\$300.00	
Uninsulated access panel, 3/4 Treated Plywood, 2 Zinc Barrel Bolts, W/S, if does not have perimeter insulation, Existing opening meets spec. no framing needed, per spec.	EA	\$200.00	

Duct Sealing in unconditioned space

All duct sealing will use mastic and may need fiberglass mesh tape to support mastic to promote proper air flow by HVAC system.

SWS Link

[5.01 Forced Air Ducts](#)

Measure Description	Unit	Price	Instruction
Duct Sealing - Sealing ducts with metal or mastic per this spec. Formula to calculate area of a round duct in Sq. Ft. is: Dia. Inches X 3.1416 = Circumference Inches x Duct Length Inches / 144 = SF of area, per spec.	SF	\$2.75	
Duct Sealing with Spray Polyurethane Foam, Formula to calculate area of a round duct in Sq. Ft. is: Dia. Inches X 3.1416 = Circumference Inches x Duct Length Inches / 144 = SF of area., 2" thickness, per spec.	SF	\$7.00	
Duct boot to interior surface, per spec., Continuous Sealant per 2012 IRC, R302.9, (Mastic or other per spec.)	EA	\$50.00	
Filter slot, per spec. A pre-manufactured or site manufactured durable filter slot cover or a durable magnetic type will be installed, per spec.	EA	\$65.00	

Blower Door Directed Air Sealing

Measure Description	Unit	Price	Instruction
Use Blower Door to guide Air Sealing to infiltration targets per work order	PER HOUR	\$110.00	

Section #3 -Lightbulbs

Lighting

SWS Link

[7.0103 Lighting](#)

Measure Description	Unit	Price	Instruction
6-9 Watt LED	EA		
8-12 Watt LED	EA		
9-13 Watt LED	EA		
14-20 Watt LED	EA		
20-28 Watt LED	EA		
11Watt Flood LED	EA		
15 Watt Flood LED	EA		
18 Watt Flood LED	EA		

Section #4 - Ventilation: Base load NEAT/MHEA Setup Library Measures & Supply Measures - All work must meet SWS minimum standards.

HVAC

General Exhaust Ductions

SWS Link

[6.0201 Exhaust Systems](#)

Measure Description	Unit	Price	Instruction
where duct work is part of the installation and will comply with this specification.	EA		

HVAC

Bath Fans

Must have power switch for fan separate from light.

Measure Description	Unit	Price	Instruction
Bath Fan - Replace existing with ASHRAE 62.2, (Panasonic WhisperGreen #FV-0511VK2 or Equal including multispeed module with High/Low Delay Timer) Existing wiring.	EA		
Bath Fan - Install new ASHRAE 62.2, (Panasonic WhisperGreen #FV-0511VK2) With new wiring.	EA		

HVAC

Appliance Exhaust Vents, Dry Vents, Range Hoods

SWS Link

[6.0202.1 Clothes Dryer](#)

Measure Description	Unit	Price	Instruction
Dryer Vent - Hood Only	EA		
Dryer Vent - Duct Only (Rigid duct)	EA		
Dryer Vent - Complete, replacement, (Rigid duct)	EA		

SWS Link

[6.0201.2 Kitchen Range Hoods](#)

Measure Description	Unit	Price	Instruction
Range Hood - Hood Only w/ Damper (Rigid Metal) duct to outside or per spec.	EA		
Range Hood - Replace existing range hood with ASHRAE 62.2, (Air King ECQ303 or Equal) Existing wiring.	EA		
Range Hood - Install new ASHRAE 62.2, (Air King ECQ303 or Equal) With new wiring	EA		

HVAC

Whole House Ventilation

per ASHRAE 62.2, 2013 Appendix A

SWS Link

[6.0303.1 HRV/ERV Installation](#)

Measure Description	Unit	Price	Instruction
Install Whole House Ventilation, Residential ERV or HRV system, to include wiring. Should be capable of at least 40 to 100 CFM air flow adequate for ASHRAE 62.2 compliance. Give Spec's with your price.	EA		

Inline Venting

SWS Link

[6.03 Inline \(All Building Types\)](#)

Measure Description	Unit	Price	Instruction
Install - Fantech fan (FG 4XL), 4" insulated duct connected to cold air return with backdraft damper, vent hood, and on switch with timer setting.	EA		

Section #5 - Health & Safety All work must meet SWS minimum standards.

Health & Safety

SWS Link

[2.01 Safety Devices](#)

Measure Description	Unit	Price	Instruction
Smoke Detectors (UL Listed, tamper resistant with lifetime battery)	EA		
CO Detector (UL listed, tamper resistant with lifetime battery)	EA		
CO/Smoke combo (UL listed, tamper resistant with lifetime battery)	EA		

LSW/RRP Control

Price includes all tape, trash bags, visqueen, coveralls, masks, & labor)

Measure Description	Unit	Price	Instruction
Wall insulation (Sq ft pricing)	SF	\$2.25	
Labor - Per Person Hour	HR	\$62.00	

Vapor Barriers

Foundation floors and walls

SWS Link

[2.0202 Ground Moisture Barrier](#)

Measure Description	Unit	Price	Instruction
Crawl space or dirt floor ground cover, 6 mil, perm rating below 0.1, Visqueen or equal per spec.	SF	\$1.10	Prefer to Use 10 Mil or 12 Mil
Closed Crawl space wall "Vapor Retarder" perm of 1. or more	SF	\$2.00	Prefer to Use 10 Mil or 12 Mil