



## Work Order Bid (ID)

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### WORK ORDER INFORMATION

**Work Order Name:** WO/1002270/1

**Work Order Type:** Weatherization

**Audit Name:** 1001240

Sullivan

### CLIENT INFORMATION

**Client ID:** 1002270

**Alt. Client ID:** C1002304SA101

### AGENCY INFORMATION

**Agency:** Upper East Tennessee Human  
Development Agency

**Address:** 301 Louis Street  
Kingsport TN 37662

**Agency Phone:** 1-423-246-6180

**Agency Fax:**

**Email Address:** smeade@UETHDA.org

**Company Name & License Number:** \_\_\_\_\_

**Contractor's Signature:** \_\_\_\_\_

### COMMENT

1955 SQUARE FOOT TWO STORY HOUSE BUILT ON A GARAGE/BASEMENT IN 1986 WITH AN ASPHALT SHINGLE ROOF AND CEDAR SIDING.

ALL WORK TO BE DONE IN ACCORDANCE WITH THE TENNESSEE STANDARD WORK SPECIFICATIONS AS ADOPTED BY THE TENNESSEE HOUSING DEVELOPMENT AGENCY.

CONTRACTOR IS RESPONSIBLE TO VERIFY DIMENSIONS AND SCOPE OF WORK PRIOR TO BID.

SURVEY ON 9/24/2019 BY RON CARLISLE (423) 736-0678

INITIAL BLOWER DOOR 3173@-50

POST WORK TARGET OF 2855@-50 MUST BE MET OR EXCEEDED

SULLIVAN COUNTY

**Measure** Attic Access Door

**Components**

**Inspected**

**Comment** CREATE NEW ATTIC ACCESSES, AS NEEDED TO PERFORM AIR SEALING AND VENTING OF BATH FAN- W/S AND INSULATE.

*Estimated*

*Actual*

#	Material/Labour	Description/Comment	Unit	Estimated			Actual		
				Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Construction Materials/Hardware	Attic Access Door	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	Labor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Other Detail**

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Measure Sub Total**

**Sub Total**

**Field Notes:**

**Measure Seal Ducts**

**Components**

**Inspected**

**Comment** SHOP-VAC AND PREPARE THE DUCT-WORK AS PER THE TN SWS.  
 USE MASTIC OR APPROPRIATE MATERIAL TO SEAL THE DUCT-WORK AS PER  
 THE THDA SWS  
 THE OBJECTIVE IS TO REDUCE THE PRESSURE PAN READINGS TO LESS THAN  
 1 OR AS TIGHT AS POSSIBLE.  
 PRESSURE PAN READINGS:  
 RETURN 23.4  
 LIVING ROOM 3.9, 3.7  
 KITCHEN 3.2, 4.1  
 BEDROOM 4.4, 3.6  
 BEDROOM 3.2, 3.8  
 BATH ROOM 3.9  
 BEDROOM 4.5, 4.1  
 BATH ROOM 5.1  
 BED ROOM 3.2, 3.3

#	Material/Labour	Description/Comment	Unit	Estimated			Actual			
				Qty	Unit Cost	Total	Qty	Unit Cost	Total	
1	Miscellaneous Supplies	Duct Sealing	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure Infiltration Redctn**

**Components**

**Inspected**

**Comment** Initial Blower Door Reading: 3173@-50  
 Post Work Target of 2855 @-50 Must Be Met or Exceeded  
 Suggested Best Practice of Air Infiltration Reduction is to use two-part foam and appropriate materials to seal the penetrations and openings in the Sub-floor (accessible in the crawl space) and in the ceilings (accessible in the attic).  
 If applicable- rake back existing insulation and use two-part foam to seal the top plates of the walls. Use Rigid Foam Board and two-part foam to close and seal openings and penetrations of soffits, chases, and duct perimeters.

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Miscellaneous Supplies	Infiltration Reduction	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure DWH Pipe Insulation**

**Components**

**Inspected**

**Comment** INSULATE THE FIRST 6 FEET OF HOT AND COLD-WATER PIPE OUT OF THE WATER HEATER AS PER THE TN SWS

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Insulation	DHW Pipe Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	DHW Pipe Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

Measure Floor Ins. R-30

Components F2

Inspected

Comment GARAGE AREA:

INSTALL R-19 FIBERGLASS BATTS IN BETWEEN THE 2 X 10 FLOOR JOISTS @ 16 inches O.C. AS PER THE TN SWS.

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Insulation	Floor Insulation - Fiberglass Batts - R-30	SqFt	937	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	Floor Insulation - Fiberglass Batts - R-30	SqFt	937	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total  Sub Total

Field Notes:

Measure DWH Replacement

Components

Inspected

Comment REMOVE AND REPLACE THE 40 GALLON ELECTRIC WATER HEATER WITH A NEW 50 GALLON HEAT PUMP WATER HEATER. INSTALL AS PER THE TN SWS, WITH EXPANSION TANK AND PRESSURE RELIEF PIPE. DO NOT ADD TANK INSULATION TO THE NEW WATER HEATER. INSTALL A CONDENSATION PUMP AND DRAIN LINE THAT TERMINATES IN A LOCATION DIRECTING WATER AWAY FROM THE HOUSE

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Hot Water Equipment	Any -	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total  Sub Total

Field Notes:

Measure Storm Windows

Components WD8

Inspected

Comment THIS MEASURE REFERS TO THE BROKEN ANDERSON CASEMENT WINDOW PANE - LEFT OF FRONT DOOR. REPLACE THE BROKEN DOUBLE PANE GLASS

#	Material/Labour	Description/Comment	Unit	Estimated			Actual		
				Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Labor	Storm Window	SqFt	8.67					
2	Other	Storm Window	Each Window	1					
3	Windows	Storm Window	SqFt	8.67					
<b>Other Detail</b>									
<b>Measure Sub Total</b>							<b>Sub Total</b>		

**Field Notes:**

Measure CO Monitor is Needed

Components

Inspected

Comment INSTALL CO MONITORS AS PER THE TN SWS- ONE ON EACH FLOOR

#	Material/Labour	Description/Comment	Unit	Estimated			Actual		
				Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety Items	CO monitor	Each	3					
2	Labor	Labor	Each	3					
<b>Other Detail</b>									
<b>Measure Sub Total</b>							<b>Sub Total</b>		

**Field Notes:**

**Measure** Fix Improper Venting (Clothes Dryer)

**Components**

**Inspected**

**Comment** VENT THE CLOTHES DRYER AS PER THE TN SWS- INSULATE IN THE VENT PIPE IN UNCONDITIONED SPACES

#	Material/Labour	Description/Comment	Unit	Estimated			Actual			
				Qty	Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	Equipment	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure** Fix Not Operational Bathroom Exhaust Fan

**Components**

**Inspected**

**Comment** REPLACE THE EXISTING BATH FAN WITH A NEW TWO SPEED ASHRAE COMPLIANT FAN. SET TO 40 CFM CONTINUOUS. VENT TO THE OUTSIDE WITH A TRIM KIT AS PER THE TN SWS.

\*\*\*\*\*INSTALL A 6' VENT PIPE TO ENSURE PROPER VENTILATION\*\*\*\*\*

#	Material/Labour	Description/Comment	Unit	Estimated			Actual			
				Qty	Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	Equipment	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Hour	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>						<input type="text"/>	<b>Sub Total</b>			<input type="text"/>

**Field Notes:**

**Measure** Fix Wiring Problems (Walls)

**Components**

**Inspected**

**Comment** JUNCTION BOX NEEDED IN THE BASEMENT FLOOR JOIST AREA,  
ELECTRICAL OUTLET COVER NEEDED - DRYER OUTLET,  
ELECTRICAL OUTLET COVER NEEDED -DOWNSTAIRS BATHROOM

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	Equipment	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Hour	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>							<input type="text"/>	<b>Sub Total</b>		<input type="text"/>

**Field Notes:**

**Measure** Smoke Detector is Needed

**Components**

**Inspected**

**Comment** INSTALL SMOKE DETECTORS IN ALL BEDROOMS AND COMMON AREA  
(HALLWAY)-EACH FLOOR

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	Smoke detector	Each	7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Each	7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Other Detail</b>										
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>Measure Sub Total</b>							<input type="text"/>	<b>Sub Total</b>		<input type="text"/>

**Field Notes:**

<b>Work Ordere Grand Total:</b>	<input type="text"/>	<b>Grand Total:</b>	<input type="text"/>
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