



Work Order Bid (ID)

WORK ORDER INFORMATION

Work Order Name: WO/1003737/2

Work Order Type: Weatherization

Audit Name: 1002560

CLIENT INFORMATION

Client ID: 1003737

Alt. Client ID: C1003821SA101

County: Carter

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: sdawes@uethda.org

Company Name & License Number: _____

Contractor's Signature: _____

COMMENT

714 SQUARE FOOT SINGLE WIDE MOBILE HOME MANUFACTURED IN 1999.
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 3/10/2020 BY RON CARLISLE (423) 736-0678
INITIAL BLOWER DOOR 2578@-50
POST WORK TARGET 714 @-50 MUST BE REACHED OR EXCEEDED

Located in Elizabethton, TN
Carter County

Measure 1 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 9.2
 LIVING ROOM 3.9
 KITCHEN 4.5
 BEDROOM 5.6
 BEDROOM 5.9
 BATH ROOM 5.7

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Insulation	Duct sealing (setup cost)	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Miscellaneous Supplies	Duct Sealing	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						<input type="text"/>	Sub Total		<input type="text"/>

Field Notes:

Measure 2 General Air Sealing

Components

Inspected

Comment Initial Blower Door Reading: 2578@-50
 Post Work Target of 714 @-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	Insulation	General air sealing (setup cost)	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Miscellaneous Supplies	Infiltration Reduction	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						<input type="text"/>	Sub Total			<input type="text"/>

Field Notes:

Measure 3 DWH Tank Insulation

Components

Inspected

Comment AS PER THE TN SWS- Wrap the 50 Gallon Electric Water Heater With R-10 or Better Insulation. Secure with Tape and Zip Ties.

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Insulation	DWH Tank Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	DWH Tank Insulation	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						<input type="text"/>	Sub Total			<input type="text"/>

Field Notes:

Measure 4 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

Estimated

Actual

#	Material/Labour	Description/Comment	Unit	Estimated			Actual		
				Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Insulation	DWH Pipe Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	DWH Pipe Insulation	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 5 Roof Fiberglass Loose

Components

Inspected

Comment Insulate Mobile Home Roof cavity with loose fill Fiberglass insulation. Gain Access with Progress-Cut holes in roof or ceiling, or Gable to fill cavity to insert insulation machine nozzle. Ensure that hole is large enough for nozzle. Ensure that each hole cut is to be patched with appropriate materials to insure no leaks. If installed from interior use proper plugs for holes cut in ceiling area. A dated receipt signed by the installer will be provided that includes:

- Insulation type- Must be Fiberglass
- Coverage area
- R-value
- Installed thickness and minimum settled thickness
- Number of bags installed in accordance with manufacturer specifications

Objective(s):
 Document job completion to contract specifications
 Confirm amount of insulation installed
 Ensure ability to match bags required for total area completed

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Insulation	Roof Insulation - Fbergl,Blwn	Bag	13	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Roof Insulation - Fbergl,Blwn	Bag	13	<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							<input type="text"/>	Sub Total		<input type="text"/>

Field Notes:

Measure 6 CO Monitor is Needed

Components

Inspected

Comment INSTALL CO MONITORS AS PER THE TN SWS

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	CO monitor	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"/>	
Measure Sub Total						<input type="text"/>	Sub Total			<input type="text"/>

Field Notes:

Measure 7 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	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	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"/>	
Measure Sub Total						<input type="text"/>	Sub Total			<input type="text"/>

Field Notes:

Measure 8 Fix Other Water Heating Problem

Components

Inspected

Comment INSTALL A JUNCTION BOX OVER THE WATER HEATER ELECTRICAL CONNECTIONS

#	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"/>

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 9 Fix Wiring Problems (Walls)

Components

Inspected

Comment INSTALL A WEATHER PROOF COVER OVER THE ELECTRICAL OUTLET ON THE EXTERIOR WALL

#	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"/>

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 10 Install Bathroom Exhaust Fan

Components

Inspected

Comment INSTALL 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. 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.

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	Bathroom exhaust fan	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							<input type="text"/>	Sub Total		<input type="text"/>

Field Notes:

Measure 11 Pressure Relief Piping Needed

Components

Inspected

Comment INSTALL A PRESSURE RELIEF PIPE EXTENSION AS PER THE TN SWS- EXTEND TO OUTSIDE OF THE FOUNDATION, TURN DOWN WITH AN ELBOW AND TERMINATE THE PIPE TO WITHIN 6" OF EXTERIOR GRADE.

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	Pressure relief piping	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							<input type="text"/>	Sub Total		<input type="text"/>

Field Notes:

Measure 12 **Replace the Electric Furnace/Central Air Conditioner With New 1.5 Ton Heat Pump** **Components**

Inspected

Comment REPLACE THE ELECTRIC FURNACE AND CENTRAL AIR CONDITIONER WITH A NEW 18 Kbtu/h HEAT PUMP- RETRO-FIT TO EXISTING DUCT-WORK SUPPLY HOME OWNER WITH 12 RETURN FILTERS

Mechanical permits will be required for all HVAC work, as per local code. All Heat pumps installed to be 15 SEER, 8.5 HSPF. All cooling equipment, ENERGY STAR labeled and shall be sized according to the latest editions of ACCA Manuals J and S. Specification of any type of heating unit shall be taken to include all connections, wiring, ducting, safety switches, thermostats, pad if existing does not fit new unit and all other work to provide a complete, Tight, efficient, balanced and operational system. All wiring shall be on separate circuits, wired from panel box or disconnects to HVAC unit by contractor. If installing a split system that does not have existing line set the cost should be included in bid to provide new line set. If leaving the existing line set the line is to be flushed and pressurized to insure no leakage. Include condensate pump, if situation requires. If installing a package unit, it is to include a four-sided shroud. All work to meet current code for city or county work is being performed. Must provide all warranty information with invoice. If unit warranty needs registered with factory contractor is to do this for client.

#	Material/Labour	Description/Comment	Unit	Estimated			Actual		
				Qty	Unit Cost	Total	Qty	Unit Cost	Total
1	Unspecified	Misc Material	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"/>
Measure Sub Total						<input type="text"/>	Sub Total		<input type="text"/>

Field Notes:

Measure 13 Smoke Detector is Needed

Components

Inspected

Comment INSTALL SMOKE DETECTORS IN ALL BEDROOMS AND COMMON AREA (HALLWAY)

#	Material/Labour	Description/Comment	Unit	Qty	Estimated		Actual			
					Unit Cost	Total	Qty	Unit Cost	Total	
1	Health and Safety Items	Smoke detector	Each	3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
2	Labor	Labor	Each	3	<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"/>	
Measure Sub Total						<input type="text"/>	Sub Total			<input type="text"/>

Field Notes:

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