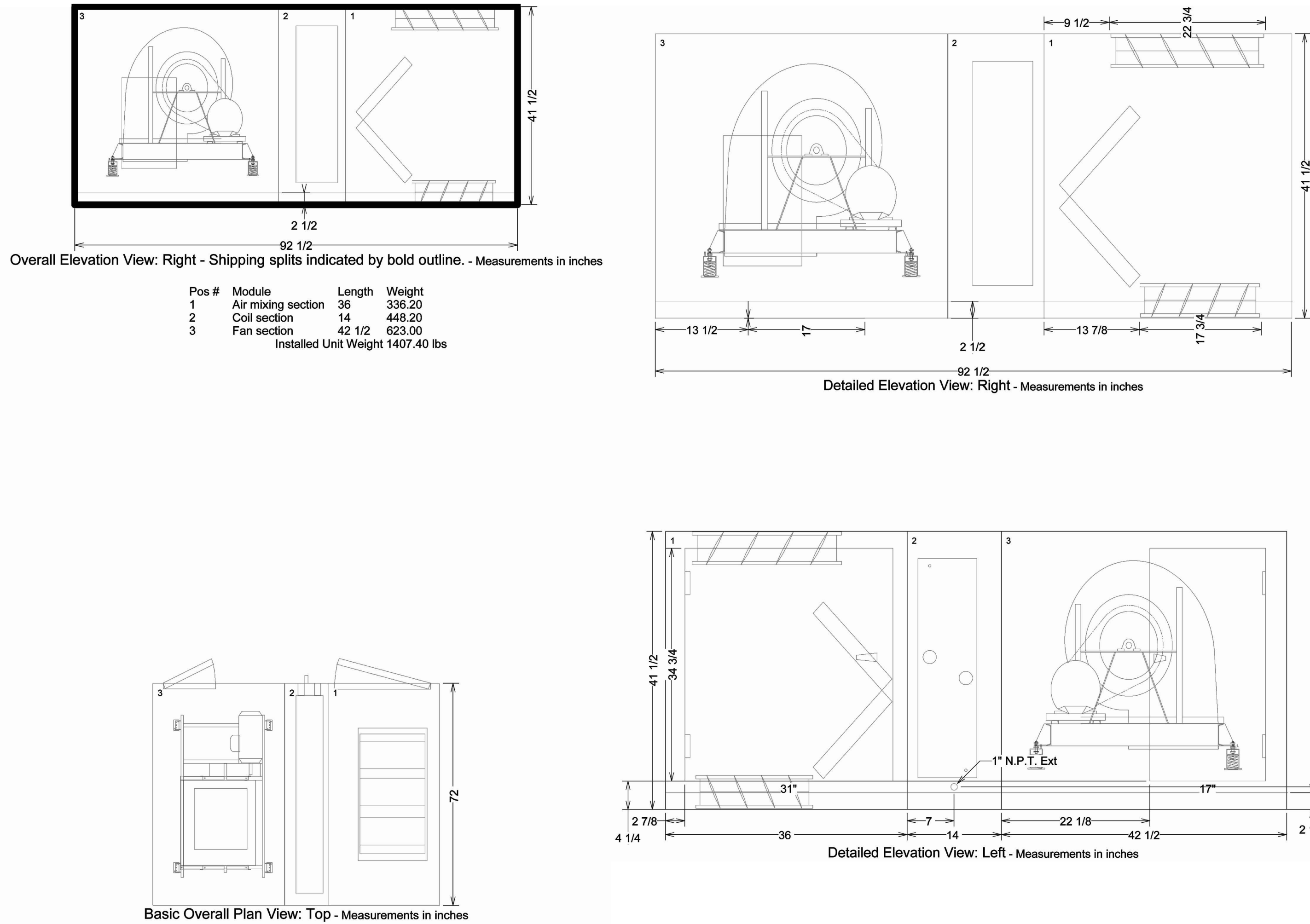


90-AHU-4 SPECIFICATIONS

Performance Climate Changer Quantity 1 Job Comments				Module Position: 0			
Unit level options				Module Position: 0			
Actual airflow	6590 cfm	Inlet and casing - 500 Hz	74 dB				
Unit elevation	0.00 ft	Inlet and casing - 1K Hz	71 dB				
Unit size	14	Inlet and casing - 2K Hz	65 dB				
Integral base frame	2.5in. integral base frame	Inlet and casing - 4K Hz	59 dB				
UL listed unit	UL listed unit	Inlet and casing - 8K Hz	57 dB				
High voltage location	Left	Ducted inlet - 63 Hz	75 dB				
Length	92.500 in	Ducted inlet - 125 Hz	67 dB				
Width	72.000 in	Ducted inlet - 250 Hz	74 dB				
Installed weight	1400.2 lb	Ducted inlet - 500 Hz	64 dB				
Rigging weight	1328.7 lb	Ducted inlet - 1K Hz	60 dB				
Single or front discharge - 63 Hz	91 dB	Ducted inlet - 2K Hz	55 dB				
Single or front discharge - 125 Hz	84 dB	Ducted inlet - 4K Hz	51 dB				
Single or front discharge - 250 Hz	84 dB	Ducted inlet - 8K Hz	47 dB				
Single or front discharge - 500 Hz	82 dB	Casing - 63 Hz	76 dB				
Single or front discharge - 1K Hz	82 dB	Casing - 125 Hz	74 dB				
Single or front discharge - 2K Hz	76 dB	Casing - 250 Hz	72 dB				
Single or front discharge - 4K Hz	73 dB	Casing - 500 Hz	81 dB				
Single or front discharge - 8K Hz	66 dB	Casing - 1K Hz	83 dB				
Inlet and casing - 63 Hz	79 dB	Casing - 2K Hz	55 dB				
Inlet and casing - 125 Hz	76 dB	Casing - 4K Hz	35 dB				
Inlet and casing - 250 Hz	74 dB	Casing - 8K Hz	36 dB				
Controls and VFD/starter				Module Position: 0			
Factory controls package	No factory mount	LCD screen and keypad	No LCD				
Automatic Selection	No auto selection	Design Sequence	A				
Controller mounting	No mount	Prepackaged solution option used	MP common configuration not used				
Controller type	No controller	Total number of control points	0 control points				
Warranty				Module Position: 0			
Warranty section				Std. warranty only			
Air mixing section				Module Position: 1			
Section type	Air mixing section	Design sequence	B				
Unit size	14	Opening, 1 bottom - airflow	6590 cfm				
Mixing section type	with filter	Filter condition	Mid-life				
Filter frame	2"	Filter airflow	6590 cfm				
Filter type	Pleated media - MERV 8	Opening, 1 front - airflow	6590 cfm				
Access door location	Left	Opening, 1 top - airflow	6590 cfm				
Back opening type	No opening	Opening, 1 bottom - face velocity	1165 ft/min				
Front opening type	Full face opening	Opening, 1 bottom - pressure drop	0.175 in H2O				
Leaving		Opening, 1 top total pressure drop	0.175 in H2O				
Top air path	Parallel blade damper	Opening, 1 bottom total pressure drop	0.175 in H2O				
Top air path type	Entering	Greatest entry EO	0.175 in H2O				
Outside		Opening, 1 front - area	16.53 sq ft				
Top inlet type	Ducted	Opening, 1 top - area	5.66 sq ft				
Bottom opening type	Parallel blade damper	Opening, 1 bottom - area	5.66 sq ft				
Bottom air path	Entering	Opening, 1 top - face velocity	1165 ft/min				
Bottom inlet type	Return	Opening, 1 top - pressure drop	0.175 in H2O				
Right side opening type	Ducted	Filter area	16.06 sq ft				
Left side opening type	No opening	Filter face velocity	365 ft/min				
	No opening	Filter pressure drop	0.588 in H2O				
Fan section				Module Position: 3			
Section type	Fan sec [3]-1	Static pressure origin	Program calculated				
Unit size	14	Supply fan	91 dB				
Inlet location	Back inlet	Single or front discharge - 125 Hz	84 dB				
Fan orientation	Bottom-front discharge	Single or front discharge - 250 Hz	82 dB				
Access door location	Left	Single or front discharge - 500 Hz	82 dB				
Drive location	Left side drive	Single or front discharge - 1K Hz	76 dB				
Design sequence	D	Single or front discharge - 2K Hz	73 dB				
Motor horsepower per fan	7.5 hp	Single or front discharge - 4K Hz	68 dB				
Motor class	NEMA premium compliant ODP	Single or front discharge - 8K Hz	79 dB				
Motor voltage	400V	Inlet and casing - 63 Hz	76 dB				
Cycle	60 cycles/sec	Inlet and casing - 125 Hz	74 dB				
Drive service factor	1.5 fixed drive	Inlet and casing - 250 Hz	71 dB				
Motor RPM	1800	Inlet and casing - 500 Hz	65 dB				
Fan airflow	6590 cfm	Inlet and casing - 1K Hz	59 dB				
Overall ESP	1.500 in H2O	Inlet and casing - 2K Hz	57 dB				
Unit entering ESP	0.750 in H2O	Inlet and casing - 4K Hz	67 dB				
Unit discharge ESP	0.750 in H2O	Inlet and casing - 8K Hz	73 dB				
Elevation	0.00 ft	Ducted inlet - 63 Hz	67 dB				
Minimum temperature	40.00 F	Ducted inlet - 125 Hz	61 dB				
Design temperature	70.00 F	Ducted inlet - 250 Hz	64 dB				
Fan size and type	15in. diameter FC - class 1	Ducted inlet - 500 Hz	60 dB				
Total brake horsepower	6.352 hp	Ducted inlet - 1K Hz	55 dB				
Total brake horsepower at min temp	6.734 hp	Ducted inlet - 2K Hz	51 dB				
Total static pressure	2.909 in H2O	Ducted inlet - 4K Hz	47 dB				
Speed	1178 rpm	Ducted inlet - 8K Hz	76 dB				
Outlet area	2.05 sq ft	Casing - 63 Hz	74 dB				
Fan module pressure drop	1.500 in H2O	Casing - 125 Hz	72 dB				
Section height	41.500 in	Casing - 250 Hz	81 dB				
Section length	42.500 in	Casing - 500 Hz	83 dB				
Section width	72.000 in	Casing - 1K Hz	55 dB				
Section weight	623.0 lb	Casing - 2K Hz	35 dB				
		Casing - 4K Hz	36 dB				
		Casing - 8K Hz					

90-AHU-4 DETAILS



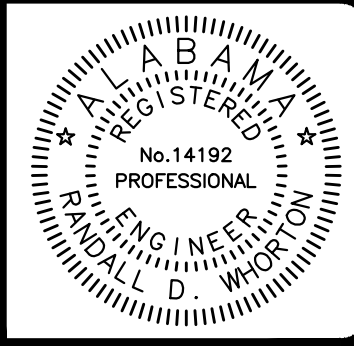
90-AHU-4 - HVAC DETAILS AND SPECIFICATIONS - BUILDING 90

N.T.S.

WHORTON ENGINEERING, INC.
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WHORTON ENGINEERING PROJECT NO. 10159



Veterans Administration

Revisions	Date



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CAVHCS
Central Alabama Veterans Health Care System

Approved:	Approved:
Approved:	Approved:
Approved:	Approved:
Approved:	Approved:

Drawing Title
90-AHU-4 - HVAC DETAILS AND SPECIFICATIONS - BUILDING 90
Safety Officer
Clinical Representative

Project Title		
HVAC MODIFICATIONS TO BUILDINGS 83, 90, & 93 TUSKEGEE, ALABAMA		
Building Number	Checked	Drawn
90	RDW	JAD
Location		
East Campus, Tuskegee, AL		

Date	12/21/10
Project No.	619-10-445
Drawing No.	90M3.4
Dwg. 30 of 59	