



# DUCT TRAVERSE TEST REPORT (Rectangular)

PROJECT Henry A Guerra Library SYSTEM DESIGNATION AHU-3  
 LOCATION Main Supply Duct TRAVERSE DESIGNATION Supply Air  
 INSTRUMENTATION 18" Pitot Tube and Digital Multimeter

DUCT	DESIGN AIRFLOW	ACTUAL AIRFLOW
Size I.D. <u>64" x 26"</u>	SCFM (sL/s) <u>10562</u>	SCFM (sL/s) <u>9855</u>
Area ft <sup>2</sup> (m <sup>2</sup> ) <u>10.33 ft<sup>2</sup></u>	CFM (L/s) <u>10562</u>	FPM (m/s) <u>954</u>
S.P. in. w.g. (Pa) <u>+0.45"</u>		CFM (L/s) _____

Dimension	POSITION	1	2	3	4	5	6	7	8	9	10
2.60"	1	884	984	955	959	935	961	941	972	983	951
7.80"	2	849	948	971	992	940	970	963	983	962	949
13.00"	3	956	973	983	926	964	973	929	998	943	975
18.20"	4	990	988	981	951	980	994	943	969	912	921
23.40"	5	852	960	983	996	939	982	953	945	901	902
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
<b>Dimension</b>		3.1"	9.3"	15.5"	21.7"	27.9"	34.1"	40.3"	46.5"	52.7"	58.9"
<b>VELOCITY SUBTOTALS</b>		4531	4853	4873	4824	4758	4880	4729	4867	4701	4698

**Average Velocity = 954 fpm**

REMARKS: 1. Supply duct is wrapped with 1" fiberglass duct external duct wrap.

TEST DATE 11/01/05

READINGS BY John Smith