

EA Credit 1.3 - Option A Optimize Energy Performance, RTU-1 Load Analysis

| <b>Section</b>                                                         | <b>Static Pressure<br/>(in WG)</b> |
|------------------------------------------------------------------------|------------------------------------|
| 46x22 ductwork off RFU-1 w/ two turning vanes                          | 0.03                               |
| 36x22 ductwork                                                         | 0.03                               |
| 36x18 ductwork                                                         | 0.01                               |
| 20x14 ductwork take off                                                | 0.15                               |
| 20x14 ductwork w/ two elbows                                           | 0.20                               |
| 22" round ductwork                                                     | 0.04                               |
| 12" round take off                                                     | 0.10                               |
| 12" round duct                                                         | 0.02                               |
| Terminal unit                                                          | 0.10                               |
| 24x10 ductwork                                                         | 0.01                               |
| 24x10 ductwork                                                         | 0.01                               |
| 20x6 ductwork                                                          | 0.02                               |
| 10" round duct w/ one elbow                                            | 0.02                               |
| Duct connection to linear diffuser plenum                              | 0.10                               |
| <b>Total Static Pressure for ductwork, fittings and terminal units</b> | <b>0.89</b>                        |
| Air outlets                                                            | 0.1                                |
| Volume dampers                                                         | 0.15                               |
| Ductwork losses                                                        | 0.3                                |
| Return losses                                                          | 0.3                                |
| Safety Factor %                                                        | 10%                                |
| <b>Total Static Pressure</b>                                           | <b>1.9162</b>                      |