

## Emery Collegiate Institute, North York, Ontario



**LOCATION :** 3395 Weston Road, North York, Ontario

**OWNER :** Toronto District School Board  
TDSB.

**TEAM MEMBERS :**  
**Mechanical Consultant**  
 Mr. Imran Majeed  
 Advanced Buildings Solutions Inc.

**Electrical Consultants**  
 Suri & Associates Ltd.



### **MECHANICAL ENGINEERING SERVICES:**

Mr. Majeed was engaged to provide following services:

- Mechanical - Roof top unit Assessment
- Site review
- Concept Studies & Design Development
- Preparation of Construction Documents
- Estimating Construction Cost
- Cost Control & Value Analysis throughout the Design Process
- General Administration & Design Coordination throughout the work

### **PROJECT DESCRIPTION:**

The project include replacement of existing indoor air handling unit serving cafeteria and provide DX cooling based cooling coils and outdoor condensing unit roof, electrical upgrades in support of mechanical upgrades and services.

### **Existing System:**

The building has rooftop equipment detailed as follows:

1. The existing air handling unit serving Cafeteria chilled water based 30tons unit with 12600 CFM in capacity complete with controls, piping and duct work. This unit is unable to maintain design temperature, humidity levels and provide enough fresh area to Cafeteria building when it is fully occupied.

### **Recommendations:**

We recommend new roof top unit of make TRANE, DX capacity of 30 tons, 12600 CFM and outdoor condensing unit (scroll compressor) with new refrigerant piping and controls.

