



Thomas Viaduct Middle School



First Floor Plan



LEGEND

- = ADMINISTRATIVE SPACES
- = GRADES 6-8
- = SCIENCE LABS
- = SPECIAL EDUCATION
- = CENTRAL SUPPORT SPACES
- = ARTS & TECHNOLOGY
- = BUILDING SERVICES
- = RECREATION AND PARKS

ABBREVIATIONS

- CC = CUSTODIAL CLOSET
- CR = CLASSROOM
- S = STORAGE ROOM
- T = TOILET
- IDF = INTERMEDIATE DISTRIBUTION FRAME ROOM
- MDF = MAIN DISTRIBUTION FRAME ROOM

Floor Areas

First Floor	65,908 s.f.
Second Floor	27,138 s.f.
Total School Area	93,046 s.f.
Rec. and Parks	2,792 s.f.
Total Building	95,838 s.f.



Second Floor Plan

Environmental Design Features

LEED FOR SCHOOLS 2009

SS SUSTAINABLE SITES

Goal: Limit environmental impact of buildings on local ecosystems

- Preferred parking for low emitting and fuel efficient vehicles
- Reduce heat island effect/ Provide highly reflective roof design.

EA ENERGY AND ATMOSPHERE

26% reduction in energy use

- Energy Star roof
- Groundsource geothermal system
- High performance skylights for interior spaces
- Daylight sensors for dimming artificial lights in daylit spaces

WE WATER EFFICIENCY

37% reduction in water use

- High efficiency urinals
- Dual flush toilets
- Low flow faucets
- Roof rainwater collection in underground storage tanks for playfield irrigation.

MR MATERIALS AND RESOURCES

Goal: Maximize use of recycled material and minimize landfill waste

- Specify 10-20% use of post-consumer recycled content materials
- Specify 10-20% use of regionally produced materials to reduce environmental resulting impact from transportation

EQ INDOOR ENVIRONMENTAL QUALITY

Goal: Enhance indoor air quality, thermal comfort and natural daylighting

- High performance mechanical system and architectural design to enhance indoor quality of building.
- Specify low-emitting materials throughout interior of building
- 90% of classroom spaces are daylit.

ID INNOVATION IN DESIGN

Goal: Achieve innovative performance on credits not specifically addressed by LEED

- HCPSS has adopted a green cleaning policy for Thomas Viaduct Middle School helping to improve the overall indoor environment of the building.

SS SUSTAINABLE SITES

- **Construction Activity Pollution Prevention**
- **Environmental Site Assessment**
- **Alternative Transportation**
 - Public Transportation Access
 - Bicycle Use
 - Low Emitting and Fuel Efficient Vehicles
 - Parking Capacity
- **Site Development**, Maximize Open Space
- **Stormwater Design**, Quantity and Quality Control
- **Heat Island Effect**, Roof
- **Joint Use of Facilities**

WE WATER EFFICIENCY

- **Water Use Reduction**

- 37% Reduction in Indoor Water Use

- **Water Efficient Landscaping**

- No potable water used for irrigation

EA ENERGY & ATMOSPHERE

- **Fundamental Commissioning of Building Systems**
- **Minimum Energy Performance**
- **Fundamental Refrigerant Management**
- **Optimize Energy Performance**
 - 26% Reduction in energy use
- **Enhanced Commissioning**
- **Measurement and Verification**

MR Materials and Resources

- **Storage and Collection of Recyclables**
- **Construction Waste Management**
 - Divert 75% of construction waste from landfill
- **Recycled Content**
 - Use 10-20% of materials with recycled content.
- **Regional Materials**
 - Use 10-20% of materials produced regionally
- **Certified Wood**

EQ Indoor Environmental Quality

- **Minimum IAQ Performance**
- **Environmental Tobacco Smoke Control**
- **Minimum Acoustical Performance**
- **Construction IAQ Management Plan**
- **Low-Emitting Materials**
- **Indoor Chemical and Pollutant Source Control**
- **Controllability of Systems, Lighting & Thermal Comfort**
- **Thermal Comfort Design and Verification**
- **Daylighting**
 - 90% of classroom space is daylit.

ID INNOVATION AND DESIGN

- **Maximize Open Space Exemplary Performance**
- **Green Cleaning**
- **Low Mercury Lighting**
- **LEED Accredited Professional**