



RETROFIT METAL ROOF, FRAMING SYSTEM, AND ROOFTOP HVAC RENOVIATION



CUSTOMER

Buddy Taylor
Middle School

PROJECT COMPLETED 2010



PROJECT DESCRIPTION

Garland/DBS (GDI) was selected as a team member for the complete renovation of this middle school building. We participated as the design-build contractor for the standing seam metal roof and framing system. Our scope of work included the following:

1. Retrofit the existing modified bitumen low-slope roofing system with a steep slope metal roof
2. Daily coordination with the project construction manager, MEP general contractor, and general contractor for the interior and masonry renovations
3. Field Evaluation and Design Engineering for the new metal roof and framing system. This included a feasibility study for the metal roof application, field survey of the building elevations, 3D modeling of the proposed roof geometry, structural evaluation of the existing building structure, framing system and standing seam metal roof engineering, project construction documents, including detailed product shop drawings
4. Demolition and reconstruction of masonry bearing walls for the new sloped roof framing system
5. Temporary waterproofing of the facility during construction
6. Installation of supply and exhaust ventilation duct work under the new roof system

The standing seam metal roof and framing system was custom designed to fit the loading requirements of this aged building structure. The existing cementitious wood fiber deck was structurally bypassed so all new loads were transferred directly to the steel framing of the building. This meant the school and architect could achieve the desired appearance with the finished project.

Located on the east coast of Florida, this project required high velocity wind zone engineering to meet the building code required hurricane wind speed resistance. GDI delivered the engineering and installation together in a unique turn-key package that fit seamlessly with the construction manager's team of prime contractors.