

# AGMC Green MRI

Project Location:    Uniontown, Ohio

Project Date:         2005



Pictures of Room Under Construction with Copper RF Shielding shown prior to cover up with insulation & drywall.

## Project Description:

A new Outpatient MRI Suite was created from six (6) existing patient exam / treatment rooms. The new MRI Suite included the MRI Room of 485 Sq. Ft., the MRI Control Room of 240 Sq. Ft. and a MRI Equipment Room of 170 Sq. Ft. The MRI Room was built within a copper, sheet metal RF Shield.

In addition to the typical plumbing requirements for a medical office environment, the MRI Suite required a stand-alone medical gas system providing oxygen and medical vacuum with a Master Alarm Panel located in the Control Room.

The HVAC system, comprised of a nominal 6-Ton Liebert Indoor Environmental Control Unit with an outdoor air cooled condensing unit, provided Ventilation and Temperature and Humidity control in both the MRI and MRI Equipment Rooms. The Control Room was served off the existing VAV Reheat Air System. Aluminum ductwork was utilized within the MRI Room, including waveguides at all RF shield penetrations. HVAC design specialties for the MRI Room consisted of a nominal 3-Ton air-cooled chiller for the MRI Shield/Cryo Cooler, a Cryogenic vent system and a “Helium Purge”, exhaust system.