

## PADONIA ROAD BRIDGE WIDENING Baltimore County, MD



WBCM provided preliminary planning studies and prepared construction documents for a widened bridge to carry Padonia Road over the MTA Light Rail. Final design involved rehabilitation and widening of the existing concrete column piers and concrete cantilever abutments and complete replacement of the steel superstructure and deck. Replacement of the existing superstructure allowed us to eliminate the existing lead paint and deck joints over the piers. Continuous steel rolled beams were used with a plate girder fascia stringer to provide clearance for the Light Rail catenary. Significant retaining walls were utilized to provide the widened road and eliminate the need for additional right-of-way. Construction was staged to maintain vehicular and pedestrian traffic and allow for relocations of significant utilities that also had to be maintained. The simultaneous dual track and catenary construction had to be accommodated. The final bridge configuration is three span (50'-9", 57'-0", & 48'-0") bridge with an 88'-10" width. The bridge carries three lanes in each direction and a sidewalk along both shoulders. The retaining walls were 380' and 300' in length.

**Client:** Baltimore County Department of Public Works  
**Total Construction Cost:** \$4,600,000.00  
**Project Size:** 3-span bridge 88'-10' width

**WBCM Services:** Bridge, Highway, Traffic,  
Hydrology/Hydraulics, Surveying, Erosion and  
Sediment Control