Under the Pulaski Skyway Rehabilitation project, SJH is providing inspection of the superstructure and substructure elements from Pier 79 to 98 including the truss structure over the Passaic River. Field work includes in-depth inspection and documentation of existing conditions of all steelwork between Piers 79 to 98 including trusses, gusset plates, truss bracing members, floorbeams, stringers, purlins and secondary members. Substructure inspections include hammer sounding of all faces when possible. SJH is also developing repair of steel elements of the bridge including bearing replacements.

Based on the field inspection, SJH is identifying items that require priority repair recommendations and preparing priority repair reports. We are organizing all field notes, preparing CADD sketches and photographs for the final inspection report. We will also prepare a summary inspection report consisting of findings and recommendations at the end of inspection.

In addition, SJH will review pier seismic analysis results. For any members or components that have C/D ratios less than 1.0 and are determined to require retrofitting, SJH will develop alternatives including structural calculations to determine the required member strengthening details and cost estimates to assist in the evaluation and selection of the most cost effective retrofit scheme.

Upon NJDOT’s approval for the recommended seismic retrofit schemes, SJH will prepare contract plans for the pier seismic retrofit and any pier modifications that may be required to facilitate the replacement of existing steel rocker bearings with seismic isolation bearings.