Tinicum Township Department Of Public Works

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Mt. Airy Rd. Bridge Repair Project

After advertising, we will hold a pre-construction/bid meeting to ensure that all contractors bidding on this project are aware of the scope of work required to award the bid. Traffic control devices must conform to Department of Transportation guidelines. During construction, the Township Engineer and or Public Works Director shall be making inspections to ensure compliance with the bid specifications.

The awarded Contractor shall:

- Reconstruct a stone bridge wall 17 feet in length, 4.5 ft. high, 19 inch deep on the east side of the bridge and re-attach to the remaining structure.
- Repair a stone bridge wall 4 ft. in length, 2 ft. high, 19 inch deep on the southwest corner of the bridge.
- Replace a section of standard guiderail, 13.5 ft. in length located at the bridge approach and a PennDOT approved end cap.
- Post the section of Mr. Airy road between East Dark Hollow Rd. and # 9 Mt. Airy as Road Closed during the necessary repairs. There shall also be a Road Closed ahead, local traffic only sign placed on Mt. Airy Rd. 50 ft. east of Twin Lear Road.
- Post the section of East Dark Hollow Rd. East bound warning of "Work Ahead" up hill from Mt. Airy in compliance with State Pub. 13 - Temporary Traffic Control Guidelines.
- Must obtain from the Bucks County Conservation District an Erosion and Sedimentation permit. Install E&S Controls for Demo/Debri removal and sustain them during the construction period. The Contractor must install measures to prevent debris, dirt, or other sediment from entering the stream during the course of construction. Silt sock, filter fence, and a construction entrance will be necessary to meet this requirement. These measures shall remain in place and be maintained during the construction process.
- Prior to the reconstruction of the bridge, utilize a crane or similar equipment to retrieve the stone and bridge debris from the damaged bridge wall located in the creek bed below the roadway. It is our Engineer's opinion that many of these stones remain intact and may be reused, which will require your mason to verify the feasibility of reusing intact stones recovered from the creek bed.
- This bid shall include a reinforcement detail to be integral to the wall and the roadbed. This would involve a series of L-shape #6 rebar centered within the wall and roadbed. The reinforcing steel should be 3/4" steel, spaced 2 feet on center. Steel should run continuous to within 6" of the top of the wall, and be embedded no less than 3' into the road subgrade. (Distance from top of road to location of embedment no less than 18").
- The abutment repair shall require excavation of the roadbed down to the suitable start location (more than 3' below the existing road grade).
- Final Road repair will include 2 – 1 ft. lifts of compacted ¾ modified, topped with 1 ft. of compacted DSA material obtained from ABE Materials in Easton.