

**STATE OF OHIO  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF MINERAL RESOURCES MANAGEMENT**

**HENRY MINE DRAIN  
TUSCARAWAS COUNTY, OHIO  
RECLAMATION PROJECT NUMBER TS-CI-08**

**PROJECT DESCRIPTION**

The Henry Mine Drain Reclamation Project consists of residences and Village streets affected by pre-law underground coal mining. The project site is located in the Village of Gnadenhutten, Tuscarawas County at 178 & 190 Kennedy Drive and property to the south, Gnadenhutten, Ohio. A substantial increase in flow from the mine has saturated the back & side yards of both the Henry residence at 178 Kennedy Drive, & the Sensius residence directly east of Henry at 190 Kennedy Drive. These saturated conditions are putting pressure on the basement walls at the Henry residence. A portion of this mine drainage bypasses the Village of Gnadenhutten's storm water system & ends up on Walnut Street causing a danger to motorists during the winter months.

The project involves installing subsurface drainage features in order to intercept and divert underground seepage from previous underground mining. A closed system of underdrains, cleanouts and drain basins will be constructed to intercept the underground mine water and divert it to an existing catch basin along the west side of Walnut Street. Excess soil will be disposed of at a site provided by the Village of Gnadenhutten. Temporary sediment controls will be constructed. After final grading, site restoration and revegetation will be completed.

The scope of work for the project includes: access; clearing and grubbing; dewatering; debris removal and disposal; installation of straw wattles; installation of underdrains; utility relocation and coordination, No. 1 & No. 2 stone; filter fabric; impervious liner; cleanouts; catch basin(s); off site excess material disposal and site restoration.

The Contractor shall furnish all labor, materials, and equipment necessary to perform all the work shown on the Drawing Plan Set and located herein.

The Contractor is wholly responsible for ensuring site safety for both his own work crew and the public.

Major work items include:

1. Mobilization.
2. Access road and staging area construction utilizing approximately 97 tons of No.3 and No.4 stone, 60 linear feet of 12-inch diameter HDPE culvert pipe, 16 tons of No. 57 stone bedding and backfill.
3. Installation of approximately 90 linear feet of straw wattles.
4. Site clearing and grubbing of the work limits.
5. Dewatering of existing surface flow and pumping to existing catch basin.
6. Replacement of the existing catch basin with ODOT Catch Basin No. 4 for connection of the underdrain and reconnection of existing storm sewers.
7. Installation of approximately 20 linear feet of straw wattles around underdrain side and upstream roadside ditch side of replaced catch basin along Walnut Street prior to any pipe trenching.
8. Installation of 133 feet of 12" diameter HDPE N-12 perforated pipe; 115 feet of 12" diameter HDPE N-12 solid wall pipe; 2 cleanouts; 1 perforated drain basin; bend(s), wye(s) and end cap(s). Utility coordination for power pole and guy wire support during underdrain system installation as required.
9. Utilization of approximately 26 tons of washed river gravel bedding, 515 tons of No. 2 washed river gravel backfill, 155 square yards of filter fabric, 273 square yards of impervious liner and 11 cubic yards of clay seal for the subsurface drainage system construction.
10. Removal and disposal of approximately 5 tons of debris, as needed.
11. Off site disposal of approximately 350 cubic yards (in bank quantity) of excess trench material.

12. Cleaning and maintenance of the public roads and off site disposal area, as needed
13. Removal and disposal of iron precipitate in existing ditch, rounding of bottom of ditch after iron precipitate is removed and restoration and revegetation of 0.1± acres of lawn disturbed area and 0.4± acres of field disturbed area including application of fertilizer, seed, and mulch.
14. Removal of a portion of the access road and all of the staging area, site restoration of the disturbed area and installation of the farm gate.
15. Removal of approximately 110 linear feet of straw wattles during the maintenance period.

The following ODNR-DMRM staff are involved with this project and may be contacted with any questions or concerns.

<u>Project Officer:</u>	Kevin Bratcher	330-339-2207
<u>Project Engineer:</u>	Tom Wiley	330-339-2207
<u>Design Technician:</u>	David Miller	330-339-2207

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DIRECTIONS TO PROJECT SITE

The project site is located in the Village of Gnadenhutten, Tuscarawas County at 178 & 190 Kennedy Drive, Gnadenhutten, Ohio.

Directions:

From the east: at the intersection of U.S. Route 250/800 and U.S. Route 36, travel west on U.S. Route 36 for 5.6 miles to County Road 10. Veer to the right and loop around onto Walnut Street and travel 1.4 miles south on Walnut Street to Kennedy Drive. The project site is located at the intersection of Walnut Street and Kennedy Drive on the south side of Kennedy Drive and the west side of Walnut Street.

From the west: Bridge is out at Tuscarawas River on U.S. Route 36. Follow marked detour for U.S. Route 36 East to reach project site.

Location Map

