

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**MRG-60-13.31**

**MORGAN TOWNSHIP  
MORGAN COUNTY**

**PROJECT DESCRIPTION**

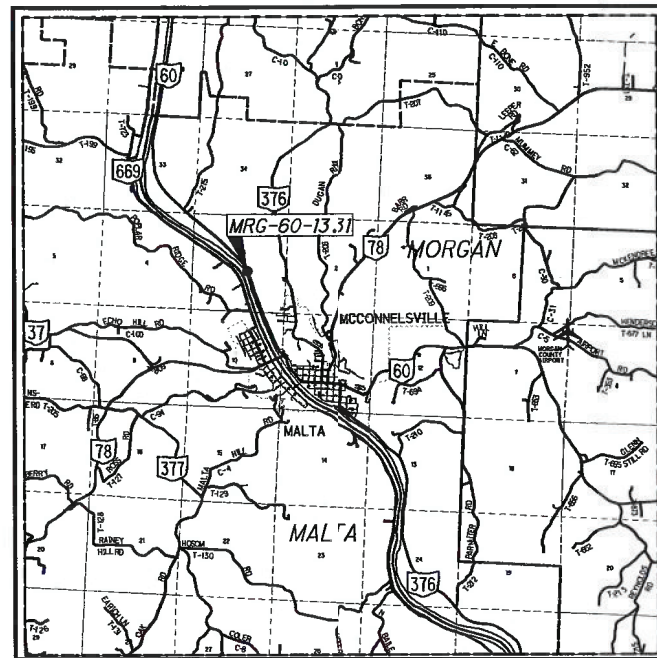
A LANDSLIDE REPAIR USING DUMPED ROCK FLL AT MRG-60-13.31.

PROJECT EARTH DISTURBED AREA: 2.10 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.10 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: 2.20 ACRES

**2019 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

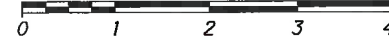
I HEREBY APPROVED THESE PLANS AND DECARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



LOCATION MAP

LATITUDE: 39°39'46" LONGITUDE: 81°51'59"

SCALE IN MILES



PORTION TO BE IMPROVED	—————
INTERSTATE HIGHWAY	—————
FEDERAL ROUTES	—————
STATE ROUTES	—————
COUNTY & TOWNSHIP ROADS	—————
OTHER ROADS	—————

**DESIGN DESIGNATION**

CURRENT ADT (2020)	8,300
DESIGN YEAR ADT (2040)	8,800
DESIGN HOURLY VOLUME (2040)	880
DIRECTIONAL DISTRIBUTION	63%
TRUCKS (24 HOUR B&C)	6%
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
RURAL MINOR ARTERIAL	
NHS PROJECT	NO

**DESIGN EXCEPTIONS**

NONE REQUIRED (105.1 SLIDE CORRECTION)

**INDEX OF SHEETS:**

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**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
BEFORE YOU DIG

CALL  
**1-800-362-2764**  
(TOLL FREE)  
OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS UNDERGROUND  
PROTECTION SERVICE CALL: **1-800-925-0988**

PLAN PREPARED BY:  
OHIO DEPARTMENT OF  
TRANSPORTATION PLANNING  
& ENGINEERING - DISTRICT 10

ENGINEER'S SEAL:

SIGNED: *Justin D. Wiseman*  
DATE: **3-4-20**

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/17/20	MT-96.11	1/17/20	800-2019 4/17/20	WATERWAY PERMITS 6/12/2020
		MT-96.20	7/15/16	832 10/19/18	CONDITIONS
DM-4.4	1/15/16	MT-96.26	1/18/19		
		MT-97.10	4/19/19		
MGS-1.1	1/19/18	MT-101.70	1/17/20		
MGS-2.1	1/19/18	MT-101.75	1/17/20		
MGS-4.3	1/18/13	MT-101.90	7/21/17		
RM-4.2	1/17/20				
		TC-65.10	1/17/14		
		TC-65.11	7/21/17		

APPROVED *Paula J. Miller*  
DATE **3/4/2020** DISTRICT DEPUTY DIRECTOR

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

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FEDERAL PROJECT NO.  
**E190514**

PID NO.  
**110131**

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
**NONE**

**MRG-60-13.31**

1  
20

**UTILITIES**

AMERICAN ELECTRIC POWER  
4991 SR 60 N  
MCCONNELSVILLE, OHIO 43756  
TIM RILEY 740-962-7006

CENTURYLINK TELEPHONE  
441 WEST BROAD ST.  
PATASKALA, OH 43062  
DEE REED 740-927-8282

MORGAN-MEIGSVILLE RURAL WATER DISTRICT  
PO BOX 456  
MCCONNELSVILLE, OH 43756  
TRISTA LINDIMORE 740-962-6395

TIME WARNER CABLE  
111 N. 11TH ST  
NEWARK, OH 43055  
JOHN MOHLER 740-322-6711

COLUMBIA GAS OF OHIO  
2429 LINDEN AVE  
ZANESVILLE, OH 43702  
CHRIS DENNIS 740-450-1216

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**CLEARING AND GRUBBING**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ALL TREES WITHIN THE WORK LIMITS, AS DEFINED IN THE ENDANGERED BAT HABITAT REMOVAL, HAVE BEEN CUT TO MEET RESTRICTIONS. TREES WERE CUT AND REMOVED FROM THE SITE. PAYMENT FOR REMOVAL OF THE STUMPS WILL BE INCLUDED WITHIN THE COST OF CLEARING AND GRUBBING.

**ITEM 659 - SEEDING AND MULCHING**

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

**CONTINGENCY QUANTITIES**

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

**INSTREAM WORK RESTRICTION AND WATERWAY PERMITS**

THE CONTRACTOR SHALL NOT PERFORM ANY INSTREAM WORK OR CONDUCT ANY WORK BELOW THE ORDINARY HIGH WATER MARK (OHWM) OF THE MUSKINGUM RIVER OR STREAMS 1 OR 2 UNTIL THE ARMY CORP. OF ENGINEERS (ACOE) AND OEPA INDIVIDUAL 404/401 WATERWAY PERMITS ARE OBTAINED BY ODOT DISTRICT 10. THE DISTRICT ENVIRONMENTAL COORDINATOR, RACHEL GOODPASTER, CAN BE REACHED AT (740) 568-4391 FOR UPDATES.

**INSTREAM WORK RESTRICTION AND FRESHWATER MUSSEL RELOCATION**

NO INSTREAM WORK SHALL OCCUR BELOW THE OHWM OF THE MUSKINGUM RIVER PRIOR TO THE RELOCATION OF FRESHWATER MUSSELS. ODOT DISTRICT 10 HAS AUTHORIZED A FEDERALLY PERMITTED MALACOLOGIST TO RELOCATE MUSSELS FROM THE PROJECT AREA PRIOR TO CONSTRUCTION. RELOCATION OF FRESHWATER MUSSELS IS DEPENDENT ON WEATHER AND RIVER FLOWS. ANTICIPATED TIME FOR COMPLETING THE FRESHWATER MUSSEL RELOCATION IS LATE JULY 2020.

**ENDANGERED BAT HABITAT REMOVAL**

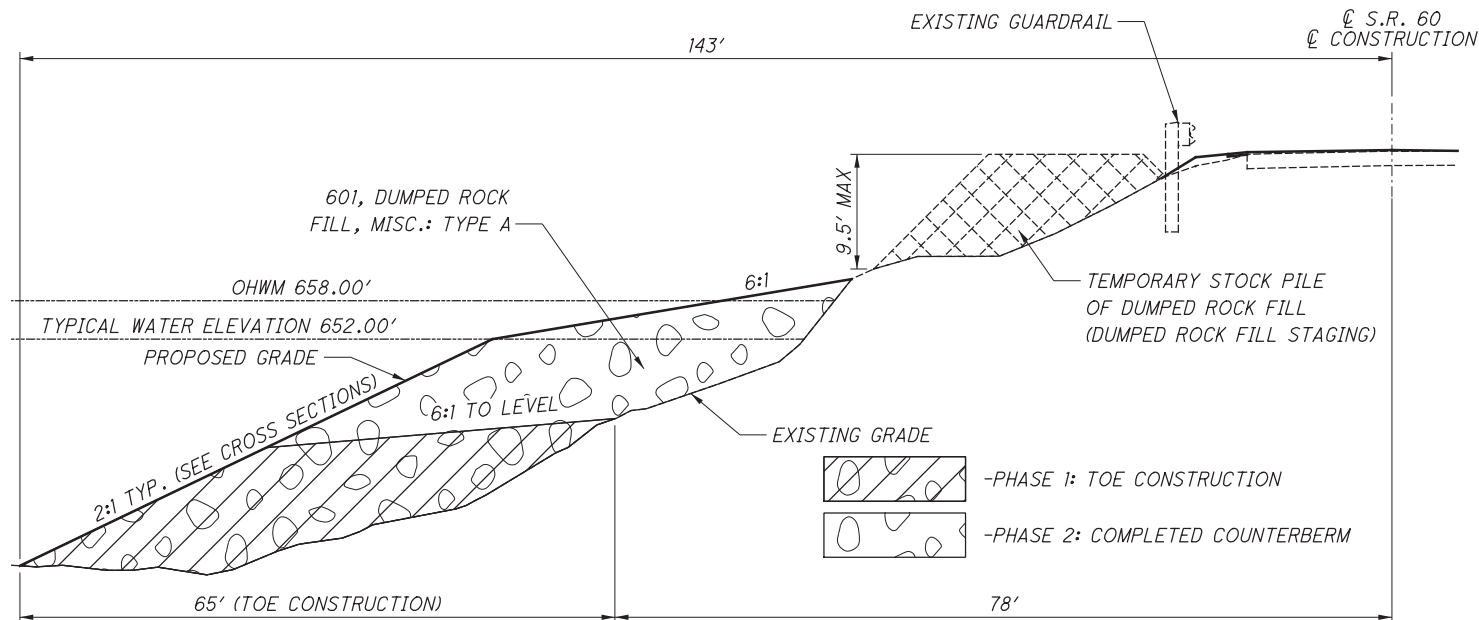
THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

**DRINKING WATER PROTECTION AREA**

THIS PROJECT IS LOCATED WITHIN A DRINKING WATER PROTECTION AREA. IN ORDER TO MINIMIZE THE POTENTIAL FOR CONTAMINATION, THE CONTRACTOR SHALL UTILIZE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. A SPILL KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. ANY SUCH SPILL OR EVENT SHALL BE REPORTED IMMEDIATELY TO THE MALTA VILLAGE PUBLIC WATER SYSTEM CONTACT MARK PHILLIPS AT (740) 962-6118. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), THE CONTRACTOR SHALL CONTACT THE MALTA AND MCCONNELSVILLE FIRE DEPARTMENT AT (740) 962-3444 OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL.

**ITEM 690 - FIELD SURVEYS**

TO ENSURE DESIGN IS MET AND AID IN VERIFYING QUANTITIES, A HYDROGRAPHIC SURVEY SHALL BE PERFORMED BEFORE CONSTRUCTION BEGINS AND AT THE COMPLETION OF THE PROJECT. PAYMENT FOR BOTH HYDROGRAPHIC SURVEYS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 690, FIELD SURVEYS.



**DUMPED ROCK FILL DETAIL**

**ITEM 601 - DUMPED ROCK FILL, MISC.: TYPE A**

IN THE AREA BETWEEN STATIONS 1699+30 TO 1705+18 DUMPED ROCK FILL, TYPE A, AS PER PLAN, AS SHOWN ON THE CROSS-SECTIONS, SHALL BE PLACED BY THE METHOD OF END DUMPING. BELOW THE TYPICAL WATER SURFACE ELEVATION (652.00'), THE SLOPE OF THE EMBANKMENT SHALL NOT BE STEEPER THAN 2:1. END DUMPING METHODS MAY BE USED UP TO AN ELEVATION 2 FEET ABOVE THE TYPICAL WATER ELEVATION 652.00'. ABOVE THIS ELEVATION, EMBANKMENT CONSTRUCTION METHODS WILL BE IN ACCORDANCE WITH 203.05 AND 203.07 INCLUSIVE.

A 65' TOE SHALL BE CONSTRUCTED BEFORE DUMPED ROCK FILL CAN BE PLACED WITHIN 78' OF THE C OF CONSTRUCTION. A MINIMUM LENGTH OF 50', MEASURED ALONG THE C OF CONSTRUCTION, SHALL BE ESTABLISHED BEFORE DUMPED ROCK FILL CAN BE PLACED WITHIN 78' OF THE CONSTRUCTION C (BETWEEN THE ESTABLISHED TOE AND THE BANK OF THE MUSKINGUM RIVER).

THE UNCONSOLIDATED NATURE OF FLUVIAL SEDIMENT MAY RESULT IN SETTLEMENT OF THE DUMPED ROCK INTO THE EXISTING STREAM BED SURFACE. THE GEOMORPHOLOGICAL NATURE OF FLUVIAL SEDIMENT MAY CAUSE THE ACTUAL STREAM BED SURFACE, AT THE TIME OF CONSTRUCTION, TO VARY FROM THE EXISTING SURVEY. DUE TO THESE FACTORS THE ESTIMATED QUANTITY OF DUMPED ROCK FILL, AS DETERMINED FROM THE CROSS SECTIONS, MAY NOT BE SUFFICIENT. THEREFORE, THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE PLANS AND CARRIED THE GENERAL SUMMARY USING A CONVERSION FACTOR OF 1.32 TONS/CY:

ITEM 601 - DUMPED ROCK FILL, MISC.: TYPE A =  
7,434 CY x 1.32 TONS/CY = 9,813 TONS

**INTERIM COMPLETION DATE**

THIS PROJECT SHALL HAVE AN INTERIM COMPLETION DATE OF 3/15/2021 FOR ALL WORK EXCEPT PAVEMENT PLANING AND ASPHALT OVERLAYS. AFTER THIS DATE, THE ROADWAY SHALL BE OPEN TO TWO-WAY TRAFFIC.

THE PROJECT COMPLETION DATE, INCLUDING PAVEMENT PLANING AND ASPHALT OVERLAYS, SHALL BE 5/30/2021.

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CALCULATED  
JDW  
CHECKED  
ARM

**GENERAL NOTES**

**MRG-60-13.31**