### LOCATION MAP





	CONSTRUCTION & M		NC	SUPF
1		ATERIAL SPECIFICATIO		SPEC
	OHIO DEPARTMENT OF TRANSPORTATION	USDA NATURAL RESOURCES CONSERVATION SEF		
ti in the second se	DELAWARE COUNTY ENGINEER	CONSTRUCTION		
601	Slope and Channel Protection	326	Clearing & Snagging	
659	Seeding & Mulching	468	Lined Waterway (Rock Lined Channel)	
if the		484	Mulching	S
		582	Open Channel Construction	PR
		606	Subsurface Drain	Tile
				Utility

# STATE OF OHIO, DELAWARE COUNTY DELAWARE COUNTY ENGINEER

# **GRIFFITH #391**

# DRAINAGE IMPROVEMENT PROJECT

## DELAWARE COUNTY BERLIN TOWNSHIP

Griffith #391				
ESTIMATED QUANTITIES				
Item	Description	Quanitity	Unit	
SPECIAL	Utility Relocaton	1	Lump	
NRCS 326	Clearing & Snagging	1	Lump	
NRCS 468	Lined Waterway - Rock Lined Channel	580	Lineal Feet	
NRCS 582	Open Channel Construction	2,120	Lineal Feet	
NRCS 620	Blind Inlet Structure	1	Lump	
NRCS 606	8" Pipe, Perforated	400	Lineal Feet	
NRCS 606	15" Pipe, Perforated	275	Lineal Feet	
NRCS 606	4" Tile Outlet	5	Each	
NRCS 606	6" Tile Outlet	5	Each	
ODOT 659	Seeding & Mulching, Class 1 (No Anchoring)	10,600	Square Yards	

INDEX OF SHEETS	
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- TITLE SHEET
- DETAILS & NOTES
- PLAN VIEW PLAN VIEW
- CROSS-SECTIONS EASEMENTS & WORK LIMITS

### PROJECT DESCRIPTION

This project will include the improvement of surface drainage, the installation of subsurface drain, the destruction of existing subsurface drain tile, and the taking of temporary and permanent easements.

This project/improvement is being done pursuant to Ohio Revised Code Sections 6131 and 6137.

### 2023 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. English units shall govern. Where noted, specifications of the USDA Natural Resources Conservation Service shall supplement the ODOT specifications.

CONSTRUCTION PROJECT

INVOLVEMEN<sup>-</sup>

ROAD

NONE

#### BENCHMARK DESCRIPTION

#### BM#1

The station is a brass tablet set in concrete and stamped "97–165". The station is located on Peach Blow Road, .4 miles east of US 23 and 9.4' south of the edge of pavement of Peach Blow Road.

Elevation: 940.9' Northing: 204758.78' Easting: 1820608.24'

(Coordinates are NAD1983 Ohio State Plane North)

		GRIFFITH #391	
	1	DRAINAGE IMPROVEMENT PROJECT	
		DELAWARE COUNTY ENGINEER DELAWARE COUNTY, OH	6
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		DATE 5-13-24 COUNTY ENGINEER	工
		APPROVED Bara Luvis	
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onnection		DATE 7-1-24 COUNTY COMMISSIONER	
Relocation	T	APPROVED	
		DATE COUNTY COMMISSIONER	$\begin{pmatrix} 1 \\ \hline \end{pmatrix}$
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DETAILS & NOTES

#### GENERAL CONSTRUCTION NOTES

1. The construction right-of-way for this project will be 75' right and left of the project centerline unless otherwise marked by the Construction Inspector. Certain items of work may require an extended right-of-way in order to properly complete them. This work should not be done without prior consent of the construction inspector., and any consent given will be specific to a particular item of work. Additional right-of-way for construction access may be identified and approved by the construction inspector as deemed necessary for the completion of the project. All areas disturbed by the construction activities which are outside of the critical path including but not limited to area used for staging, stockpiling of materials, and access will be cleaned and returned to its pre-construction state at the sole responsibility of the contractor as per the requirements of ODOT CMS 104.04.

2. The contractor will be responsible for ensuring that all relevant OSHA regulations are met prior to beginning any construction activities.

3. Temporary easements for construction access may be identified and approved by the construction inspector as deemed necessary for the completion of the project. Any access easement not connected to the work limits of the project will be returned to its pre-construction state at the sole responsibility of the contractor.

4. All ground disturbed by excavation shall be returned to its pre-construction vegetative state and grade unless otherwise directed by the plans and/or the construction inspector.

5. Spoil from excavation of the surface drain (NRCS #608) and open channel (NRCS #582) construction shall be exported from the site at the expense of the contractor. Payment for spoil and debris disposal will be considered as included in payment for NRCS #608 and NRCS #582 items. The contractor is free to negotiate with landowners to dispose of spoil and debris materials on-site provided that any disposal site is outside of the work limits for this project. Delaware County will not be considered party to any such agreements made between the contractor and landowners.

6. Unless otherwise noted on these plans or instructed by the construction inspector, debris from clearing and snagging within the typical cross sections is to be disposed of off-site by the contractor unless permission to place brush and logs adjacent to the construction right-of-way is granted by the landowners. Payment for hauling and disposal shall be considered part of payment for NRCS #326-Clearing and Snagging. For the purposes of on-site disposal, a log will be defined as "a section of a tree bole (the main trunk of the tree) at least 8 feet long, not containing a fork, sufficiently straight and sound enough to yield at least an 8-foot board. Anything not considered a log by the above definition will be considered brush.

7. Pipe quantities listed on the Plan and Profile views represent cumulative quantities for both perforated and non-perforated pipe. The quantity table shall be the reference for the specific amounts of perforated and non-perforated pipe. The applicable specification and the instructions of the construction inspector will govern the placement of each type of pipe. All lineal quantities of pipe shall be considered to be inclusive of all necessary elbows, couplers, and other fittings unless otherwise stated by these plans and/or the bid documents.

8. All lateral tile cut by the installation of the new tile shall be reconnected to the new tile at the point where they are cut. All lateral tile cut by the installation or rehabilitation of the open channel or rock-lined channel shall be outlet into the channel as specificed by the construction inspector and per the requirements of NRCS #606-Subsurface Drain - tile outlet detail included. Any connections made to any tile included on the Drainage Maintenance Program after completion of the project will require the approval of the Drainage Maintenance Department.

9. Seeding and Mulching will be done as per the specifications of ODOT #659 with the following

stipulations/exceptions: -Seed mixture to be used will be Class-Type #1.

-Soil testing will not be required. -Liming will not be required. -Compost will not be required.

-The use of straw mulch will be acceptable for the entire project. -Watering will not be required.

-Mulch anchoring will not be required except where specified.

10. Linear alignments of all surface and subsurface features may be modified to fit site specific conditions at the discretion of the construction inspector.

11. The contractor shall contact the Delaware County Engineer's Office a minimum of seven (7) working days prior to beginning any work within the road right-of-way. It will be the sole responsibility of the contractor to secure any permits necessary for work within the road right-of-way.

12. All trees to be saved will be marked prior to the start of construction by the construction inspector. Markings will be done in the manner requested by the contractor. Unless specifically designated as "Save" or "Do not disturb" in the plans or by the construction inspector, remove all trees and stumps within the cross section under the lump sum bid for NRCS Item #326-Clearing and Snagging. Trees marked to be saved shall be protected with protective cover such as filter fabric or other suitable material. Replacement of any tree damaged or removed that was otherwise marked to be saved will be the responsibility of the contractor.

13. Scale bars as shown on the Plan Views shall be considered to be accurate for surveyed features including, but not necessarily limited to, project centerline, tile lines, and benchmark locations. Property lines, drive centerlines, building footprints, and road centerlines as shown on the Plan Views were derived from other sources and are shown for general reference only and should not be used to scale the location of any constructed feature.

14. Excavation will/may be required to verify design elevations including, but not limited to, existing subsurface drain inverts. These excavations will be considered incidental to the overall construction of the project per ODOT CMS 105.02.

15. Existing tile must be rerouted to outlet at rock-lined channel at 26+27. Closest surveyed location of tile is approximately 275' from outlet, but shorter reroute may be possible, evaluate with construction inspector. 15" tile estimated for quantities; tile size should be determined on-site and the same size or larger tile installed.

#### Temporary & Permanent Easements

The width of the temporary easement for construction shall be seventy-five feet as measured from the top of bank of the open channel, seventy-five feet as measured from the top of bank of the surface drain, and seventy-five feet as measured from the centerline of the subsurface drain where no surface drain cross-section is specified.

2. A permanent easement will be established for maintenance and cleaning of the constructed improvement per ORC 6137.12. The width of the permanent easement will be based on the type of improvement constructed. For Open Channel and Surface Drain Swales, the permanent easement will be twenty-five feet from the top of bank on both sides of the channel, measured at right angles thereto. For closed ditches (subsurface drain installation only), the permanent easement shall be a maximum of eighty feet centered on the centerline of the improvement. The permanent easement for access shall be a maximum width of thirty feet and length as necessary to connect to the improvement as shown on these drawings.



NOTES: 1. Side Slopes and Berms to be seeded as stated in the

construction notes and ODOT Specification #659. Any modifications to this seed mixture as stated in the Specification must be approved by the construction inspector prior to seed application.

2. Side slopes above rock may be modified to fit site specific conditions at the discretion of the construction inspector.

3. Placement of Geotextile fabric may be used as a substitute for the ODOT #57 gravel bedding at the discretion of the contractor. If Geotextile fabric is used, it must comply with the specifications of NRCS #561 - Heavy Use Area Protection (P. 4, Paragraph 3). Copies of this Specification are available upon request.

4. Excavation necessary above the upper limit of rock placement to blend the side slope to existing ground will be considered part of the per lineal foot payment for this item.

LATERALS WITH NO EXISTING SURFACE OUTLET NOT TO SCALE

![](_page_1_Figure_35.jpeg)

![](_page_1_Picture_36.jpeg)

**GRIFFITH #391** DRAINAGE IMPROVEMENT PROJECT ENGINEERING DRAWINGS

![](_page_1_Figure_38.jpeg)

#### L-Shaped Blind Inlet

![](_page_1_Figure_40.jpeg)

CROSS SECTION

![](_page_2_Figure_0.jpeg)

![](_page_3_Figure_0.jpeg)

Lot	Owner	Address	Parcel Number
1	Peachblow Land LLC	4458 North Road	41833001014000
2	Peachblow Land II LLC	1162 Peachblow Road	41833001016000
3	Mark Vandervort & Jennifer Strawser	Peachblow Road	41833001022002
4	Mark Vandervort & Jennifer Strawser	Peachblow Road	41833001022000
5	Peachblowroad LTD	Peachblow Road	41833001028000
6	Peachblowroad LTD	526 Peachblow Road	41833001031000

![](_page_3_Figure_2.jpeg)

![](_page_3_Figure_4.jpeg)

### SUBSURFACE PROFILE

![](_page_3_Figure_6.jpeg)

![](_page_4_Figure_0.jpeg)

GRIFFITH #391 DRAINAGE IMPROVEMENT PROJECT ENGINEERING DRAWINGS

![](_page_4_Picture_2.jpeg)

![](_page_5_Picture_0.jpeg)