General Summary

ITEM	QUANT.	UNIT	DESCRIPTION
Special	L.S.	L.S.	Brush Removal and Disposal
Special	20,774	Cu. Yds.	Excavation
Special	20,774	Cu. Yds.	Level Spoils
Special	222	Cu. Yds.	Embankment
603	2,564	Lin. Ft.	6" Conduit Type "F"
603	100	Lin. Ft.	8" Conduit Type "F"
603	84	Lin. Ft.	10" Conduit Type "F"
603	92	Lin. Ft.	12" Conduit Type "F"
603	84	Lin. Ft.	15" Conduit Type "F"
603	20	Lin. Ft.	24" Conduit Type "F"
659	84.25	Acres	Fertilizing and Seeding
Special	L.S.	L.S.	Spraying
Special	1,532	Lin. Ft.	Culvert Cleaning
Special	20	Lin. Ft.	Removal & Reconstruction of Exist. 48" Culvert (Sta. 37+39)

Earthwork Subsummary

Sheet No.	STATION From	STATION To	EARTH EXCAVATION (Cubic Yards) Left	Right	Total
8	0+00	22+00	597	578	1,175
9	24+00	46+00	782	574	1,356
10	48+00	70+00	459	433	892
11	72+00	94+00	367	157	524
12	98+20	120+00	218	300	518
13	122+00	144+00	182	213	395
14	146+00	168+00	55	294	349
15	172+00	192+00	441	341	782
16	194+00	216+00	438	330	768
17	218+00	240+00	341	323	664
18	242+00	264+00	337	263	600
19	272+00	296+00	413	543	956
20	298+00	320+00	362	363	725
21	324+00	348+00	291	345	636
22	350+00	372+00	122	341	463
23	374+00	406+00	440	507	947
24	408+00	434+00	458	711	1,169
25	436+00	458+00	1,011	952	1,963
26	460+00	472+00	—	695	695
27	474+00	486+00	—	945	945
28	488+00	500+00	—	955	955
29	503+00	528+00	957	914	1,871
30	530+00	548+00	848	578	1,426
Sub Total			9,119	11,655	
Total					20,774

GENERAL NOTES

GENERAL

In general all work shall be in accordance with the latest Wood County Standards and Specifications and/or the Ohio Department of Transportation Construction and Material Specifications.

ITEM 203 - EXCAVATION

All the following excavated material will be considered part of this item:

1. Sand, clay, loam and gravel.
2. Hard pan that can be excavated with a plow, rooter, dragline, clamshell or by means of other equipment used in the removal of earth on the balance of the project.
3. Earth containing loose stone and boulders.
4. All other material that doesn't come under the description of hard pan or rock.

The ditch shall be excavated on the line and with the cross-section indicated on the plans. The grade line and location shall be adhered to except for such changes that may be ordered by the Consulting Engineer. A tolerance of four tenths (0.40) of a foot below and zero (0.00) foot above the grade line will be allowed. Payment for excavated material will be based only on the amount excavated; but in no case will payment be made for excavation greater than the tolerances specified.

ITEM SPECIAL - ROCK EXCAVATION

This item shall include all excavation of solid rock in the original bed or well defined ledges and the removal of boulders over eight (8) cubic feet in volume. Any blasting necessary to complete this item shall be done with care and in accordance with any local ordinances which may apply. All required permits shall be obtained by the Contractor. The cost for these permits shall be included in the unit price bid for this item.

The Contractor will be liable for any damages which may be caused by the blasting.

The Consulting Engineer's approval must be obtained before any blasting in the area of structures and before the removal of any rock that is not anticipated in the estimated quantities.

This item shall be bid and paid for on a cubic yard basis and should include the disposal of the excavated rock.

ITEM SPECIAL - SPOIL BANK LEVELING

The spoil bank material shall be void of rock excavation and large boulders and shall be spread at least ten (10) feet out from the bank of the ditch. In no case will the depth of the spoil bank be greater than six (6) inches above normal ground level.

The contractor shall cooperate with the property owners in placing excavated material so as to cause the least amount of damage. Openings for drainage of surface water shall be left wherever requested by property owners or directed by the Consulting Engineer. If any owner does not want the spoil banks leveled as stated, he shall give the contractor a written release on forms furnished by the Wood County Engineer. A copy of release will be filed with both the County Engineer and the Consulting Engineer.

In no case shall excavated material be placed on down timbers, roots, stumps, brush, against fences, on lawns, gardens, doorways or in any manner obstruct public or private driveways, crossings or water courses.

This item shall be bid and paid for on a cubic yard basis and amounts in excess or deficient of the contract shall be paid for on this basis, provided same is directed by the Consulting Engineer.

EMBANKMENT

The embankment quantity is the soil required to repair the dyke between the borrowpit and Dry Creek from Station 270 + 00 - 386 + 40.

DATUM

All elevations are Wood County Datum.

UTILITY LOCATION

The location of utilities on the plans are approximate only. The exact location of the utilities shall be determined by the Contractor prior to any construction.

CONSTRUCTION STAKING

The Contractor shall notify the Consulting Engineer 48 hours before any construction staking is needed. Any stakes removed or destroyed due to the negligence of the Contractor shall be replaced by the Consulting Engineer at the Contractor's expense.

TILE OUTLETS

All tile outlets, not shown on the plans, that are cut due to the ditch excavation, shall be repaired by digging back around the tile and replacing the last section of tile with the next larger size pipe (O.D.O.T. Type F) then placing a Class "C" concrete collar around the new joint.

The cost of any additional work can be applied for through the procedures set in the Contract Documents.

SEEDING AND FERTILIZING - DITCH BANKS

Unless otherwise shown by the plans, seed and fertilizer shall be applied to all disturbed banks of the project open ditch and the ends of structures not otherwise protected. Also, all disturbed areas such as lawns, or where brush is to be removed shall be seeded.

The seeding shall be of Kentucky 31 or Alta Fescue and Rye applied at the rate of 50 pounds each per acre of ditch bank. Fertilizer shall be applied at the rate of 50 pounds of Nitrogen (N), 75 pounds of Phosphate (P_2O_5) and 75 pounds Potash (K_2O) per acre.

The seed and fertilizer shall be applied with a hand operated seeder (or better) at the conclusion of each day's work (only during the period between March 15 and October 15 and shall not be applied when the ground is frozen). Mulching and raking are not required.

The basis of payment is the number of acres seeded and fertilized according to these specifications.

BRUSH REMOVAL

This item shall include the removal of all trees, brush, stumps, brush roots, fallen timber and debris from the bank slopes and ditch bottom and the removal of the same within the right-of-way necessary for the excavation work and spoil bank leveling as called for.

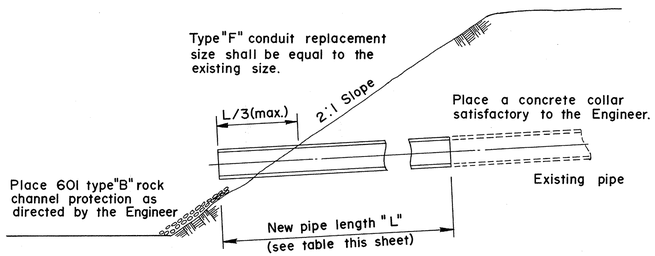
All stumps shall be removed between the ditch banks. At all other places the stumps shall be cut to a height of less than 6" above the ground.

If requested by the property owner, larger logs will be placed outside the working right-of-way for his disposal. All other brush and trees shall be disposed of by the Contractor. Burying of this debris is permissible only under the approval of location and method by the Consulting Engineer.

This item will be bid as a Lump Sum under Item 201 - Clearing & Grubbing.

SPRAYING

The stumps that remain outside the ditch banks shall be sprayed with a herbicide under the approval of the Wood County Engineer. The cost of the spraying will be bid as a lump sum item.



NOTE: Remove sufficient length of existing tile or pipe as directed by the Engineer. Cost of concrete collar, channel protection and removal and disposal of existing pipe and tile shall be included in the cost of new pipe.

PIPE REPLACEMENT DETAIL

Freeboard (Ditch bottom to conduit invert)	Tile Size 4" & 5"	6" & 8"	10" & Over
Under 2 feet	8 ft.	12 ft.	16 ft.
2 Feet & Over	10 ft.	16 ft.	20 ft.

PIPE REPLACEMENT TABLE