

LOCATION & OWNERSHIP MAP

SPECIFICATIONS

- I. EXCAVATION:
  - A. Bottom Width: The bottom width shall be THREE (3) feet between sta. 3+05 and sta. 65+21.
  - B. Bank Slopes: The ditch bank slopes are to be constructed to at least 2 foot horizontal to 1 foot vertical.
  - C. Alignment: The centerline of the improvement shall be approximately the centerline of the existing ditch unless otherwise indicated on the plan.
  - D. Total Excavation: The total excavation consists of 2278 cubic yards of earth over 6.06 lineal feet of ditch from sta. 3+05 to sta. 65+21.
  - E. Excess Yardage: No extra compensation will be paid for such excavation in excess of yardage herein estimated. This estimate was made from cross sections of the proposed ditch. The contractor should view the proposed work to his own satisfaction.
  - F. The contractor shall be given a right-of-way on each side of the ditch 50 feet from the bank of the ditch at all points.
- II. CLEARING:
 

All trees and/or brush which would interfere with the excavation operation must be cleared from the ditch right-of-way ahead of the construction operations. Stumps on the berm shall be removed or cut as low as cutting tools permit. All stumps on the slopes shall be removed. Cleared debris should be disposed of by burning or removed from the right-of-way.
- III. BERM WIDTHS:
 

Unless otherwise noted the berms will have the following minimum widths: four (4) feet wide for ditches up to four (4) foot depth; six (6) feet wide for four to six foot depth; and ten (10) feet wide for ditches over six feet in depth.
- IV. SPOIL BANKS:
 

Excavated material should be deposited and spread along one and/or both sides of the ditch, as determined, except where used for levees, and in overflow areas with timber or brush cover. Slope of the spoil after spreading should be at least 3:1 on the channel side and at least 4:1 on the field side. The height of the spoil should not exceed 9" above average ground level. Openings shall be provided for surface water to enter the ditch.
- V. TILE OUTLETS:
 

Landowners shall protect their tile outlets with a section of continuous rigid pipe and flap-gates or grid to exclude rodents. For details of construction, see your Soil Conservation Service Technician.
- VI. SURFACE WATER OUTLETS:
 

Whenever a lateral or a surface ditch enters the main ditch at a higher elevation, protection from erosion should be provided by: drop structures, pipe drops, other suitable structure or grassed waterway. For assistance on outlets, see your Soil Conservation Service Technician.
- VII. DITCH BANK SEEDING:
 

Area to be seeded Berm .7 acres  
 Ditch Banks 1.6 acres.

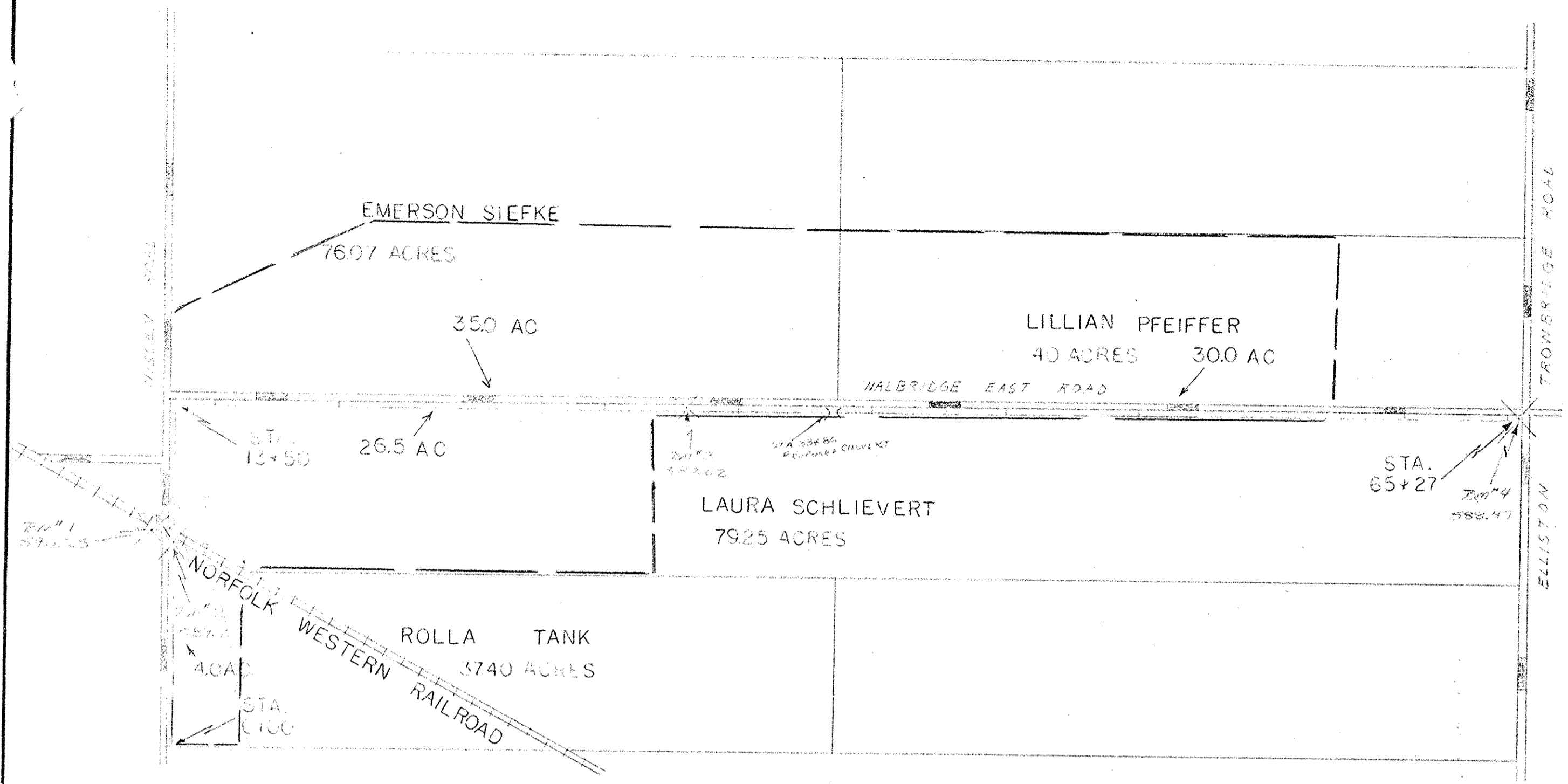
The ditch banks will be seeded each day within 24 hours after the clearing and shaping is completed. The berms will be seeded after spoil is spread. Fertilizer will be applied at that time or within 24 hours after seeding. Seed will be covered by use of adjustable spike tooth harrow, if not seeded within the above time limit.

Permanent seeding. (To be completed prior to September 15.)  
 Seeding rate per acre:  
 40 pounds tall fescue - (Kentucky 31 or Alta)  
 500 pounds 12-12-12 or equivalent fertilizer  
 2 tons straw or hay per acre for mulch

Temporary seeding.  
 Seeding rate per acre:  
 2 bushels oats seeded during spring or summer or 2 bushel wheat or rye seeded in the fall or winter may be used as a growing green mulch until a permanent seeding is made.

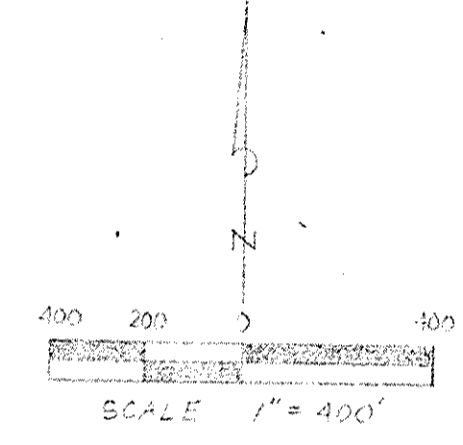
Mow when grass reaches a height of 10 to 12 inches.

The establishment of the seeding on the ditch bank and berm shall be the responsibility of the contractor. A minimum of 20 fescue plants per square foot will be considered adequate establishment.
- VIII. EXISTING CULVERTS WILL BE CLEANED AND THE INVERTS (FLOW LINE) LOWERED IF NECESSARY TO CORRESPOND TO THE PROPOSED DITCH GRADE AS INDICATED ON THE PLAN. IF NECESSARY, CULVERTS WILL BE ENLARGED TO MEET DRAINAGE DESIGN.
- IX. ALL OF THE ABOVE SPECIFICATIONS ARE TO BE COMPLETED BEFORE PERFORMANCE IS CERTIFIED.



LEGEND

- PROPOSED IMPROVEMENT:
- HIGHWAYS:
- PROPERTY LINE:
- WATERSHED BOUNDARY:
- ACRES OWNED:
- ACRES BENEFITED:
- RAILROAD:



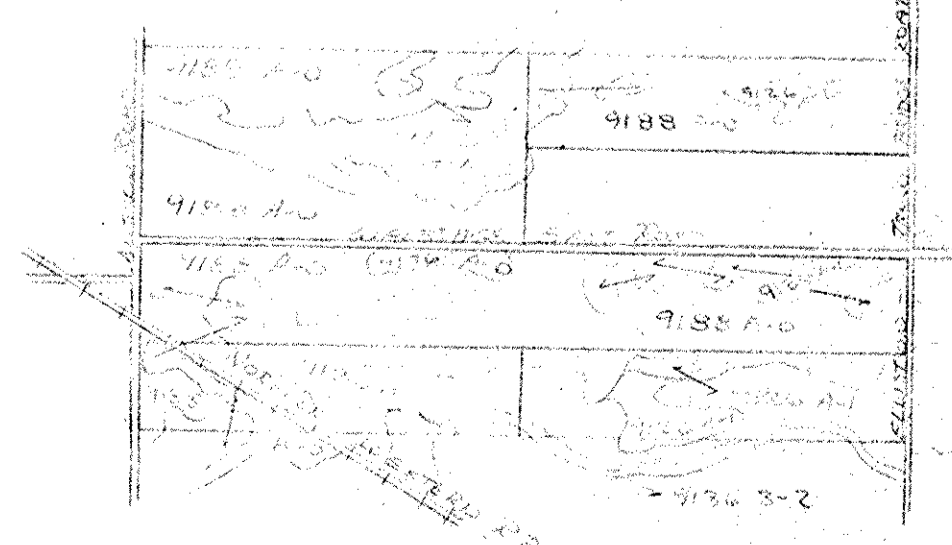
BENCH MARK DESCRIPTIONS

- BM#1: TOP OF BELL OF SOUTH END OF 27 INCH V.S.P THROUGH NORFOLK & WESTERN RAILROAD LOCATED 35 FEET WEST OF NISSEN ROAD. MEAN SEALEVEL ELEV. 590.25
- BM#2: PAINTED X ON THE SOUTH END OF 24 INCH REINFORCED CONCRETE PIPE THROUGH NORFOLK & WESTERN RAILROAD LOCATED ON THE EAST SIDE OF NISSEN ROAD. MEAN SEALEVEL ELEV. 589.95
- BM#3: TOP OF SOUTH END OF 10 INCH CORRUGATED METAL PIPE CROSSOVER THROUGH WALBRIDGE ROAD APPROX. 2000 FEET EAST OF NISSEN ROAD. MEAN SEALEVEL ELEV. 597.02
- BM#4: TOP OF CHISELED X IN THE SOUTHWEST CORNER OF CONCRETE CATCH BASIN LID LOCATED IN THE SOUTHWEST CORNER OF THE INTERSECTION OF ELLISTON - TROWBRIDGE ROAD. MEAN SEALEVEL ELEV. 588.47

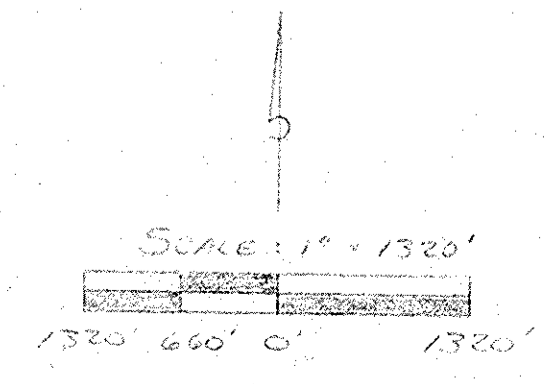
SUMMARY DATA

- DRAINAGE AREA: 100 ACRES
- DESIGN COEFFICIENT: 1/24 HRC
- LAND USE: GENERAL & CASH CROPS
- SOIL TYPES: FULTON, TOLEDO, & LUCAS
- LAND SLOPE: 0-2 %
- TYPE DRAINAGE: SURFACE & TILE

SOILS MAP



- 917C A-1: FULTON SILTY CLAY LOAM
- 918B A-0: TOLEDO SILTY CLAY
- 917C A-0: TOLEDO SILTY CLAY LOAM
- 918C B-2: LUCAS SILTY CLAY LOAM



LOCATION

THE WATERSHED CONSISTS OF LAND WITHIN THE SOUTH 1/2 OF THE SOUTH 1/2 OF SECTION 6 & THE SOUTH 1/2 OF THE SOUTHWEST 1/4 CORNER OF SECTION 6, THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 7 & THE NORTH 1/2 OF THE NORTHEAST 1/4 OF SECTION 7 OF BENTON TOWNSHIP, T7N, R14E, OTTAWA COUNTY, OHIO.

SURVEYED: OCTOBER 3RD, 1977  
 BY: ROBERT BALL DISTRICT CONSVST.  
 DOYLE SOMMER CONSV. TECHNICIAN  
 MICHAEL GARGAC DIST. TECHICIAN

REFERENCE: FIELD NOTES ARE ON FILE IN FOLDER NO. 131 AT THE OTTAWA SOIL & WATER CONSERVATION DISTRICT OFFICE OAK HARBOR, OHIO

APPROVED BY

*[Signature]*  
 OTTAWA COUNTY ENGR. NEPH  
*[Signature]*  
 BENTON TWP. TR. TRS.

PROPERTY OF  
 OTTAWA COUNTY ENGINEERS  
 OFFICE

JOB CLASS V GROUP # 131

|  |                                  |
|--|----------------------------------|
| OUTLET DITCH IMPROVEMENT                                     |                                  |
| ROLLA TANK   |                                  |
| SECTION 6, 7, 8, 9, 10, 11, 12                               |                                  |
| OTTAWA COUNTY  |                                  |
| U. S. DEPARTMENT OF AGRICULTURE<br>SOIL CONSERVATION SERVICE |                                  |
| Designed: <i>[Signature]</i>                                 | Date: 10/27/77                   |
| Drawn: <i>[Signature]</i>                                    | Title: Agricultural Conservation |
| Traced: <i>[Signature]</i>                                   | Sheet: 10-22-77                  |
| Checked: <i>[Signature]</i>                                  | No. 37-01-383-78-1               |

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 OFFICE