

**2 WORKING DAYS
BEFORE YOU DIG**
CALL TOLL FREE 800-362-2764
AND UTILITIES PROTECTION SERVICE

THIS PLAN HAS BEEN REVIEWED BY THE FOLLOWING:

Ryan Moran 6-29-2018
PUTNAM COUNTY ENGINEER'S OFFICE DATE

Michael S. Lohat 6-29-2018
PUTNAM COUNTY ENGINEER DATE

BENCHMARK DESCRIPTIONS

BM #1: TOP NORTH END OF 60" R.C.P. UNDER TOWNSHIP ROAD H (PIPE NUMBER H-10.35)

ELEVATION = 734.15'

NOTICE TO CONTRACTOR
PROJECT SPECIFICATIONS ATTACHED

NOTICE TO EXCAVATOR

Excavator must notify all utilities at least 48 hours and not more than 10 days prior to the planned commencement of excavation.

- Member utilities will be contacted by calling the Ohio Utilities Protection Service (OUPS) at (1-800-362-2764).
- Each OUPS Limited Basis Participant will be contacted by the excavator using the telephone number provided.
- The Ohio Oil & Gas Producers Association shall be contacted by the excavator at (1-800-925-0988).

PLAN INDEX

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PAGE 2-3 DITCH SPECIFICATIONS

PAGE 4-5 DITCH PROFILES

PAGE 6-7 DITCH CROSS SECTIONS

FINAL CONSTRUCTION PLANS

DATE _____

Designed Ryan Moran

Drawn Ryan Moran

Redlined _____

Checked _____

Title _____

**RON NICKY DITCH
DRAINAGE IMPROVEMENT, #974**
Ottawa Township, Putnam County, Ohio

PUTNAM COUNTY ENGINEER'S OFFICE

CAD FILE I.D.
cover.dwg

DRAWING NUMBER

Sheet 1 of 7

RON NICKEY DITCH #974 OPEN DITCH GENERAL SPECIFICATIONS

Contractor References

It shall be required from any bidding contractor who has never been awarded a contract with the Putnam County Engineer, that, as a part of their bid, the contractor shall furnish a list of completed projects (if available) approved by either an Ohio Registered Engineer, an engineering staff employee of a County Engineer in Ohio, or by the staff of an ODOT District Engineering Department. Said projects should be job specific for agricultural drainage tile mains, lateral connections, catch basins and open ditches. The bidding contractor must also furnish as a part of his bid, any or all subcontractors who may be performing work or supplying equipment for the benefit of the bidding contractor.

Right of Way

1. The width of the construction right-of-way shall be 50 feet on each side of the proposed improvement except 75 feet where one-sided construction. The contractor has the privilege of using the right-of-way area during construction for purposes of ingress-egress, excavation and back filling, placement of seed, fertilizer, mulch, etc.
2. All property owners who have planted crops within the working right-of-way of the ditch project after the ditch petition has been granted, and before the completion of the reconstruction, have done so at their own risk of losing those crops.
3. The contractor may use additional area outside of the working right-of-way in order to properly repair tile laterals and connections if and only if direct permission is granted by that particular landowner.

Permanent Easement

At the completion of the project, there shall be a permanent easement established at 25 feet from the top of each bank on both sides of the open ditch. Said easement is a prescribed easement that runs with any petitioned ditch per section 6131 of the Ohio Revised Code. All prescribed easements are imposed upon the lands which contain and are immediately adjacent to the petitioned ditch project.

Alterations of Work

1. Should there be any discrepancy discovered between the intentions of these specifications and the special plans prepared for this contract, the contracting officer shall be the deciding authority, and the decision shall be final.
2. The right is reserved by the contracting officer to correct any error or omissions in the plans or specifications. The Contractor shall be paid for extra work on unit price bid. The right is also reserved for non-performance and shall be deducted from the contract at the unit price bid.
3. All changes made during construction between the contractor and landowners shall be done with a written request that MUST be submitted to the Engineer before approval.

Liabilities of Contractor

1. The Contractor shall be held entirely responsible for the conduct of his employees, on the job, and any damages that arise there-from.
2. The Contractor shall be held liable for all damages resulting from the use of explosives, mechanical equipment or other devices used in the prosecution of the work, or unnecessary damage to crops or land. However, the Contractor is subject only to the plans and specifications, and the direction of the Engineer. Landowners or other interested parties have no authority to dictate or give any orders relative to the prosecution of the work, but should report any violation of the specifications to the Engineer in charge.
3. The Contractor shall not start work under this contract until he has obtained Public Liability, Automobile, Property Damage, Workers Compensation and all other insurance required during the life of this contract. The Contractor shall not allow any subcontractor to start work on his subcontract until all similar insurance has been so obtained.

Date for Completion

1. The Contractor shall have completed the work on or before the calendar date specified in the contract. If the Contractor finds it impossible for reasons beyond his control to complete the work by the date specified, he may make a written request to the Engineer for an extension of time setting forth therein the reasons which he believes will justify the granting of his request. Requests for extensions of time shall be filed in writing by the Contractor with the Engineer. If the Engineer finds that the work was delayed because of conditions beyond the control and without fault of the Contractor, he may extend the time for completion in such amount as the conditions justify.
2. Delays caused by weather or seasonal conditions will be considered as a basis for an extension of time. The time between December 15 and March 15 will be considered winter months and no extension will be granted for this time. A work day will be considered as a loss if the Contractor is unable to complete 50 percent of a normal work day. Weekends and holidays will not be counted as lost work days.

Failure to Complete on Time

If the Contractor fails to complete the work within the time or times allowed by the contract, the Engineer, if satisfied that the contractor is carrying forward with reasonable progress, and deems it to be the best interest of the public, may allow him to continue in control of the work.

Partial Payment

The contractor may request payment for any or all materials which have been successfully delivered to the job site for any working sections which have been completed or for any other types of labor, materials, or costs involved with the construction of the project before it is completed in its entirety. A written request with all necessary bills of materials purchased by the contractor must be supplied to the Engineer. A minimum of 10% retainage shall be applied to all partial payment to guarantee completion. Contractor shall provide proof that all material costs owed to a vendor or supplier of said materials are paid in full within 5 days after receiving said partial payment.

Inspection and Staking

The County Engineer shall be responsible for all of the required construction staking of the alignment and grade for the proposed tile, submain, or known laterals, catch basins, elbows, fittings and the locations for the abandonment of the old tile. The County Engineer shall inspect all installed tile, pipe, lateral connections and abandonment excavations prior to back filling all trenches. The County Engineer shall not inspect nor approve any work that is performed on weekends without prior approval. No Sunday work will be permitted. Any or all work performed without the inspection and/or approval of the engineer shall be considered a NON-PERFORMED item.

Supervision

1. A contract will need to be signed in the Engineer's Office before beginning construction.
2. The contract will be administered by the Putnam County Commissioners.
3. The contracting officer shall be the authorized representative of the County Commissioners.
4. The responsibility of the construction inspection will be with the Putnam County Engineer or his authorized representative.
5. All materials used shall be approved by the Engineer or a representative of the office during construction.

DATE	_____
Designed	_____
Drawn	_____
Redlined	_____
Checked	_____
Title	_____

RON NICKEY DITCH #974
SECTION 8 OTTAWA TOWNSHIP
 Putnam County, Ohio
PUTNAM COUNTY ENGINEERS OFFICE

DRAWING NUMBER

Sheet 2 of 7

RON NICKEY DITCH #974 OPEN DITCH WORKING SPECIFICATIONS

Rip - Rap

1. All rip-rap required for use as erosion control for this project shall consist of limestone as approved by the engineer. Gradations for Type A, Type B, Type C and Type D rip-rap to be used for erosion control shall be specified in ODOT 703.19 (Dump Rock) Construction Manual or as otherwise negotiated with the County Engineer. See typical sections sheet as included with these plans.
2. All rip-rap shall be placed in an excavated area, 18" minimum depth, and as staked in the field by the Engineer. Rip-rap shall be paid by the price bid per ton in place. Copies of all load tickets shall be supplied to the Engineer at the conclusion of each working day. For the purposes of this project plan, standard Type C or Type D rip-rap shall be utilized for erosion control purposes as called for in plans.

Excavation & Leveling

1. Excavation shall include all materials, not otherwise listed for removal, necessary for proper completion of the project to line and grade as shown on the profile sheets.
2. The bottom widths and bank slopes shall be shown on the cross-section sheets. Said slopes shall be maintained at all times, in case the old ditch banks are wider than the width specified for the new ditch, said old banks shall be trimmed and sloped in proper condition as directed by the Engineer.
3. The centerline of the improvement shall be approximately the centerline of the existing ditch unless otherwise indicated on the plans.
4. All excavated material shall be placed at least 8 feet from the top of the ditch bank, and leveled to a depth not to exceed 6 inches with a bulldozer or similar equipment.
5. Provisions must be made to provide drainage through the spoil where natural drainage would be blocked by spoil deposition.
6. On tillable land, spoil shall be free of roots, snags and large rocks, as directed by the Engineer, which would interfere with farming operations.
7. No excavated material shall be placed on any house yard, barnyard, garden, fence, brush or fallen timber. The Contractor will be held responsible for the disposal of such excavation.
8. The Contractor will be held responsible for the ditch retaining its full dimensions until its final inspection.

Removal & Disposal of Trees, Brush, Etc.

1. Brush shall consists of all trees and woody growth that grows in the drainage structure or adjacent to it and hampers the construction.
2. Brush growing on ditches that are property lines, shall be removed and piled on the side that it grew.
3. Brush removal shall include the removal of all trees (except those flagged or marked for saving), brush, roots, and debris from the drainage structure and areas adjacent to it. Where brush is removed by grubbing or dug out by machine, the banks shall be free of snags and roots and banks shall be dressed and sloped to sections shown on plans, or in case of cleanout returned to existing slopes. Piling shall be done in a neat workman like manner on contractor's right of way, or immediately thereto as directed by the Engineer and shall not be placed in the spoil bank area nor between spoil bank and ditch. All trees, timber, stumps, brush and etc. shall remain in the property of the landowner for his disposal.

Tile Outlets

1. Care shall be taken not to damage tile or pipe outlets and shall be left open and in as good a condition as found.
2. Landowners will be notified to mark their tile outlets with paint, flags or other means that make the contractor aware of their location. All tiles and pipes shown on the profile will be considered as marked. Any tile or pipe outlet that is marked and is damaged by the contractor shall be replaced at the contractor's expense to the satisfaction of the Engineer before the final payment is granted.

Bridges, Culverts & Drives

1. Excavation under all bridges will be to the line and gradient shown on the profile and from abutment to abutment or as directed by the Engineer.
2. All culverts and drives in the channel shall be cleaned to their full dimensions
3. The cleaning of bridges, culverts and drives shall be included in the contract unless otherwise specified.

Fences

1. When it is necessary to remove a fence, the Contractor shall give the landowner sufficient time (at least 10 days) to remove said fence. Fences not to be removed must be preserved unharmed as far as possible.

Permanent and Temporary Seeding

A permanent seeding will be made within the following dates: April 1 - September 15. On areas where construction occurs between these dates the permanent seeding shall be made in the following manner:

Ditch Banks: The ditch bank will be seeded and fertilized within 6 hours of excavation. After seeding and fertilizing the ditch bank will be dragged with a spiked harrow, large chain or other device which will cover the seed with approximately ½ inch of soil. The adequacy of this operation will be determined by the Engineer.

Berms and Spoil: A permanent seeding where required on berms and spoil will be made within four (4) weeks of the time the area was disturbed, unless a temporary seeding has been made. A suitable seed bed will be prepared and after seeding is done the area shall be raked or dragged so as to cover the seed to a depth of ½ inch.

Houseyards: Areas shall be free of stones 1 inch or greater in any dimension and shall be graded to a smooth surface. After sowing, the area shall be raked or dragged so as to cover the seed to a depth of ½ inch. Within 48 hours after seeding, vegetative mulch shall be evenly placed over seeded area.

On areas where construction occurs between September 16- December 16, a temporary seeding will be made and the permanent seeding will be made from April 1 - June 1 of the following year. On these areas a seedbed will be prepared and the seeding and fertilizing operations carried out within 24 hours. On areas where construction occurs between December 16 - March 31, no seeding will be made and the area will be sowed with a permanent seeding from April 1 - June 1. Seedbed will be prepared and seeding and fertilizing operations carried out within 24 hours.

Seeding Mixtures: Permanent & Temporary Seeding

Ditch banks and berms shall be seeded at a rate of 2lbs. per 1000 sq. feet with the following mixture. 60% Kentucky 31 Fescue, 30% Kentucky Bluegrass, 10% Perennial Ryegrass

Houseyards shall be seeded at the rate of 3lbs. per 100 sq. feet with the following mixture. 40% Kentucky Bluegrass, 40% Creeping Red Fescue, 20% Annual Ryegrass

Temporary seeding between the dates of April 1 and August 15 seeding will consist of Oats (3lbs. per 1000 sq. feet) or Domestic Ryegrass (1lb. per 1000 sq. feet) and dates between August 16 and December 15 will consist of Wheat (3lbs. per 1000 sq. feet) or Domestic Ryegrass (1lb. per 1000 sq. feet)

Fertilizer- Apply a minimum of 12-15lbs. per 1000 sq. feet of 500-600 lbs. of 10-10-10 or 12-12-12 or equivalent.

Additional Construction Notes

Sta. 0+00 to Sta. 18+00 - 4.0 foot bottom - 2 to 1 side slope - both banks

Sta. 18+00 to Sta. 35+00 - Full Bottom Clean Out

Sta. 0+00 to Sta. 18+00 - Clearing consisting of grubbing trees, brush, stumps and debris from both banks and a 30 Foot strip thri the wooded lots. (Right Bank)

Sta. 18+00 to Sta. 35+00 - Clear any brush from the left bank. (South and East)

DATE	_____
Designed	_____
Drawn	_____
Redlined	_____
Checked	_____
Title	_____

RON NICKEY DITCH #974
SECTION 8 OTTAWA TOWNSHIP
 Putnam County, Ohio
PUTNAM COUNTY ENGINEERS OFFICE

DRAWING NUMBER

Sheet 3 of 7

BENCHMARK DESCRIPTION

BH01 - TOP NORTH END OF 60" R.C.P. UNDER TOWNSHIP ROAD H (PIPE NUMBER H-10.35)

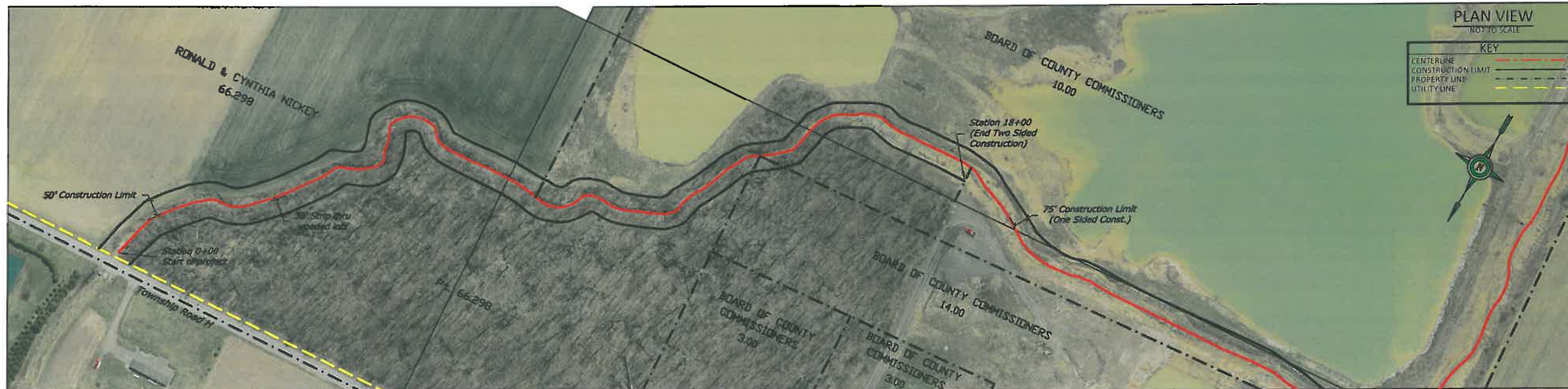
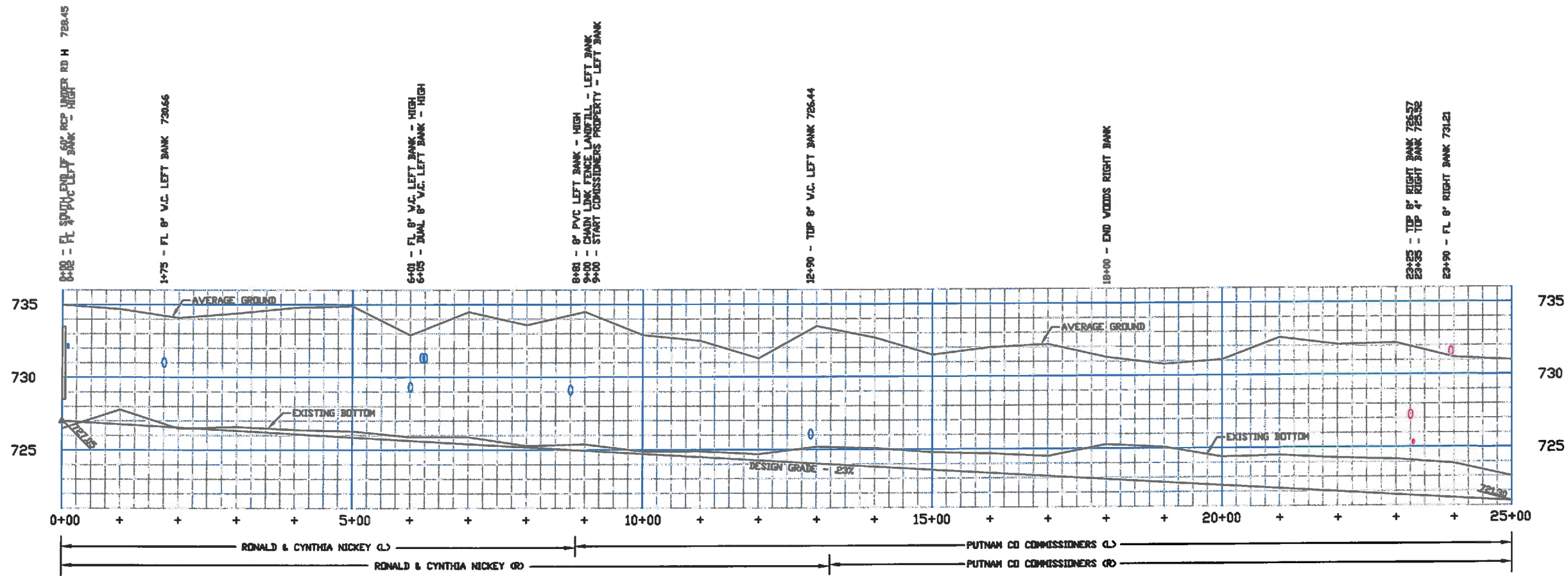
ELEVATION = 734.15'

CONSTRUCTION NOTE

BEGIN TWO-SIDED CONSTRUCTION AT STATION 0+00 AND CONTINUE TO STATION 18+00 WITH A 4 FOOT BOTTOM WIDTH AND 2:1 SIDE SLOPES

CONSTRUCTION NOTE

BEGIN A FULL BOTTOM CLEANOUT AT STATION 18+00 AND CONTINUE TO STATION 35+00.



DATE	DESIGNED	DRAWN	REVISIONS	CHECKED	TITLE
	RYAN MORAN	RYAN MORAN			FINAL CONSTRUCTION PLANS

RON NICKY DITCH #974
SECTION 8 OTTAWA TOWNSHIP
 Putnam County, Ohio
 PUTNAM COUNTY ENGINEERS OFFICE