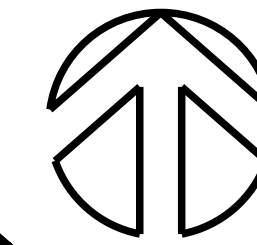


BAUER #2 COVER SHEET



Plans prepared by:

Sam Phlipot
Sam Phlipot
Drainage Engineer

Plans approved by:

Andrew Baumer
Professional Engineer
Professional Surveyor
Auglaize County Engineer

Auglaize County Engineer
P.O. Box 59 1014 S. Blackhoof
Street Wapakoneta, Ohio 45895
(419) 739-6520

Plans authorized by:

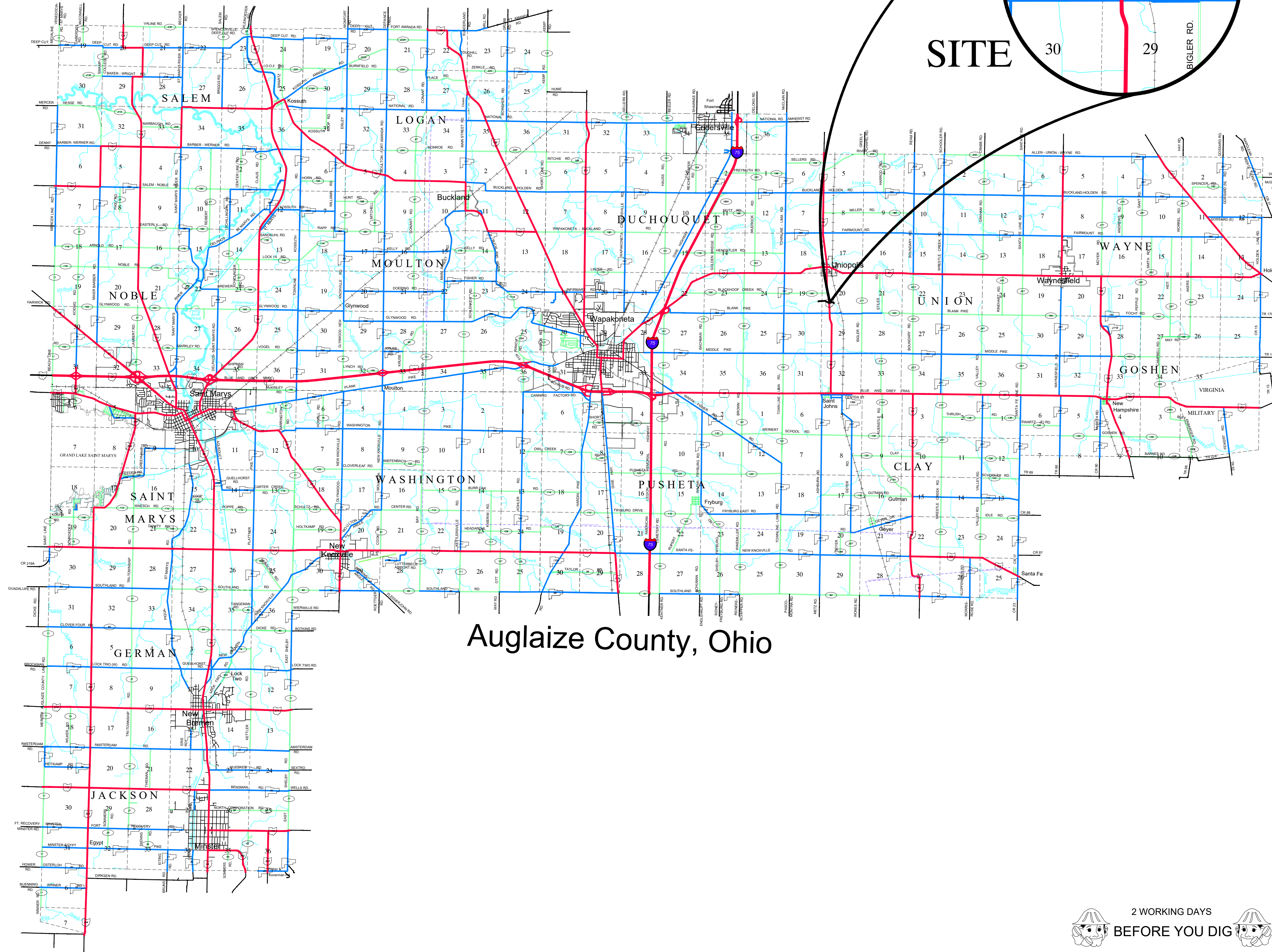
Commissioner

Commissioner

Commissioner

Index of Sheets

- (1) COVER SHEET
- (2) WATERSHED MAP
- (3) MAIN PLAN AND PROFILE - Sta 0+00 to 7+75
- (4) MAIN PLAN AND PROFILE - Sta 7+75 to 15+75
- (5) MAIN PLAN AND PROFILE - Sta 15+75 to 23+88
- (6) DESIGN INFORMATION
- (7) DETAILS
- (8) SPECIFICATIONS
- (9) CROSS SECTION VIEW - Sta 12+60 to 19+00
- (10) CROSS SECTION VIEW - Sta 19+00 to 23+88



Auglaize County, Ohio

Date	5/2024
Designed	<i>Sam Phlipot</i>
Drawn	<i>Sam Phlipot</i>
Checked	
Revised	

COVER SHEET
BAUER #2
Auglaize County, Union Township Section 19 - 20

P.O. Box 59
1014 South Blackhoof Street
Wapakoneta, Ohio 45895
419-739-6520

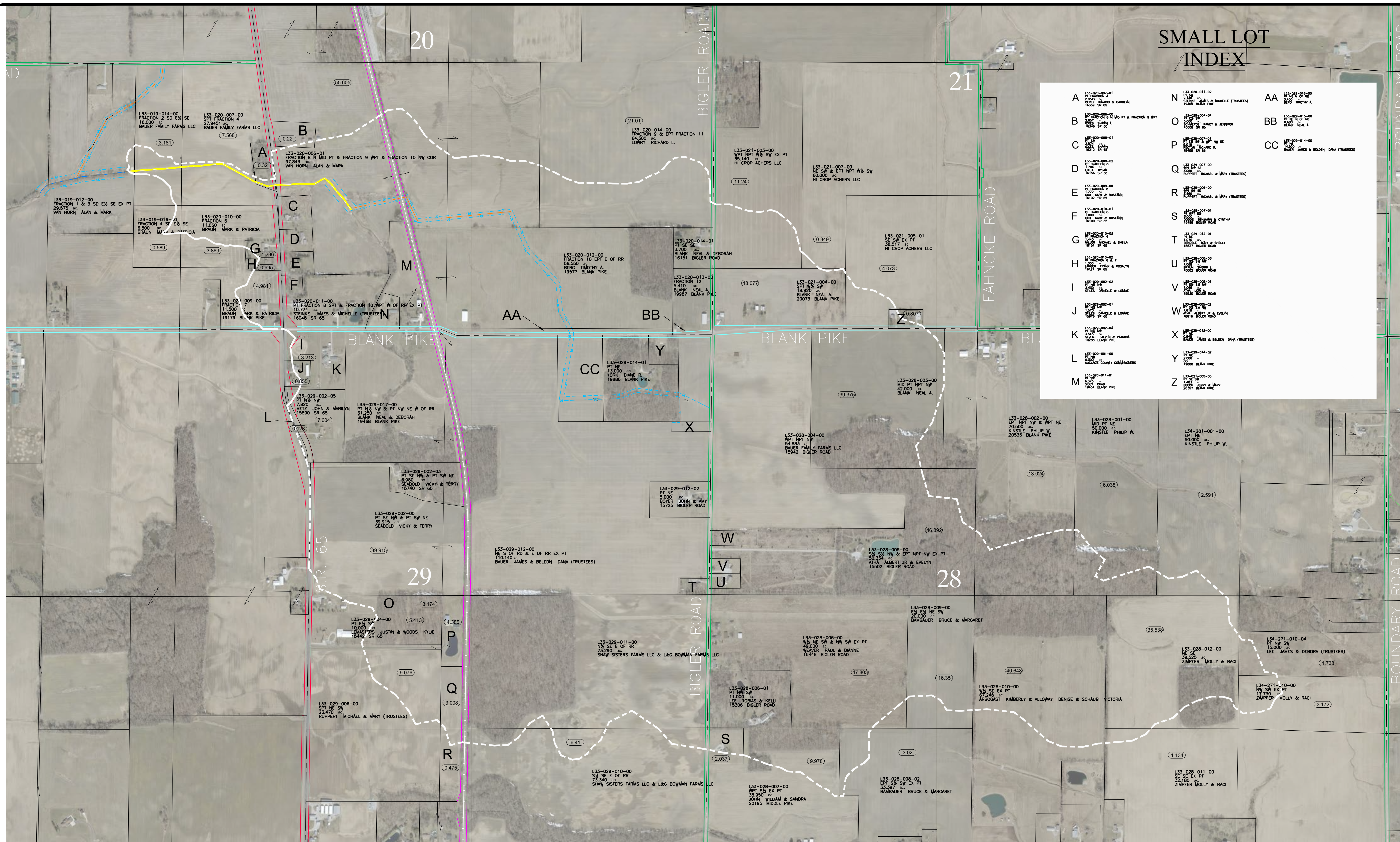
AUGLAIZE COUNTY
ENGINEER

2 WORKING DAYS
BEFORE YOU DIG

CALL TOLL FREE 800-362-2764 or 811
OHIO UTILITIES PROTECTION SERVICE

Sheet
Number

1
10



SMALL LOT INDEX

A	L33-020-007-01 PT. FRACTION 2 BLANK JAMES & CAROLYN 16.000 AC.	N	L33-020-011-02 PT. FRACTION 1 BLANK JAMES & MICHELLE (TRUSTEES) 16.000 AC.	AA	L33-020-014-00 PT. FRACTION 1 BLANK JAMES & MICHELLE (TRUSTEES) 16.000 AC.
B	L33-020-008-00 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	O	L33-020-004-01 PT. FRACTION 4 BLANK JAMES & CAROLYN 16.000 AC.	BB	L33-020-015-00 PT. FRACTION 2 BLANK JAMES & MICHELLE (TRUSTEES) 16.000 AC.
C	L33-020-008-01 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	P	L33-020-007-01 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	CC	L33-020-014-00 PT. FRACTION 1 BLANK JAMES & MICHELLE (TRUSTEES) 16.000 AC.
D	L33-020-008-02 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	Q	L33-020-007-02 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.		
E	L33-020-008-00 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	R	L33-020-007-00 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.		
F	L33-020-008-01 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	S	L33-020-007-01 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.		
G	L33-020-008-02 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	T	L33-020-007-02 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.		
H	L33-020-008-00 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	U	L33-020-007-00 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.		
I	L33-020-008-01 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	V	L33-020-007-02 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.		
J	L33-020-008-02 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	W	L33-020-007-00 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.		
K	L33-020-008-00 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	X	L33-020-007-01 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.		
L	L33-020-008-01 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	Y	L33-020-007-02 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.		
M	L33-020-008-02 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.	Z	L33-020-007-00 PT. FRACTION 3 BLANK JAMES & CAROLYN 16.000 AC.		

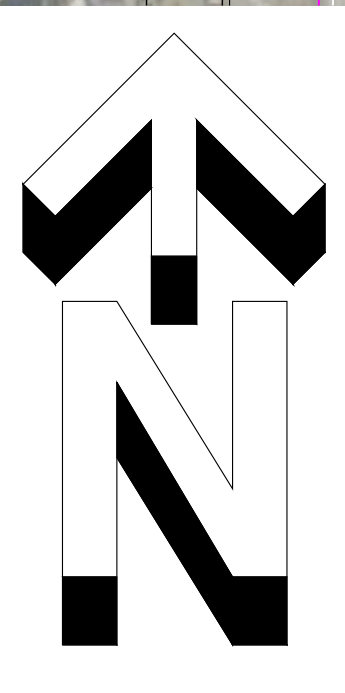
Date	5-2024
Designed	<i>[Signature]</i>
Drawn	<i>[Signature]</i>
Checked	
Revised	

WATERSHED BAUER #2

Auglaize County, Union Township Section 19 - 20

Legend

TOWNSHIP R/W	DRAINAGE EASEMENT
COUNTY R/W	PIPELINE
STATE R/W	WATERSHED ACRES
CENTERLINE ROAD	BENCH MARK
PROPERTY LINE	SECTION NUMBER
SECTION LINE	
RIGHT OF WAY LINE	
RAILROAD	
PROPOSED DRAIN	
EXISTING DRAIN	
SUB MAINS	
OPEN DITCH	
WATERSHED BOUNDARY	
SUB-WATERSHED	



A pre-construction meeting must be held between the contractor and Auglaize County Engineers office. The Engineers office must be informed at least 24 Hrs. prior to any construction to schedule layout and inspection of work.

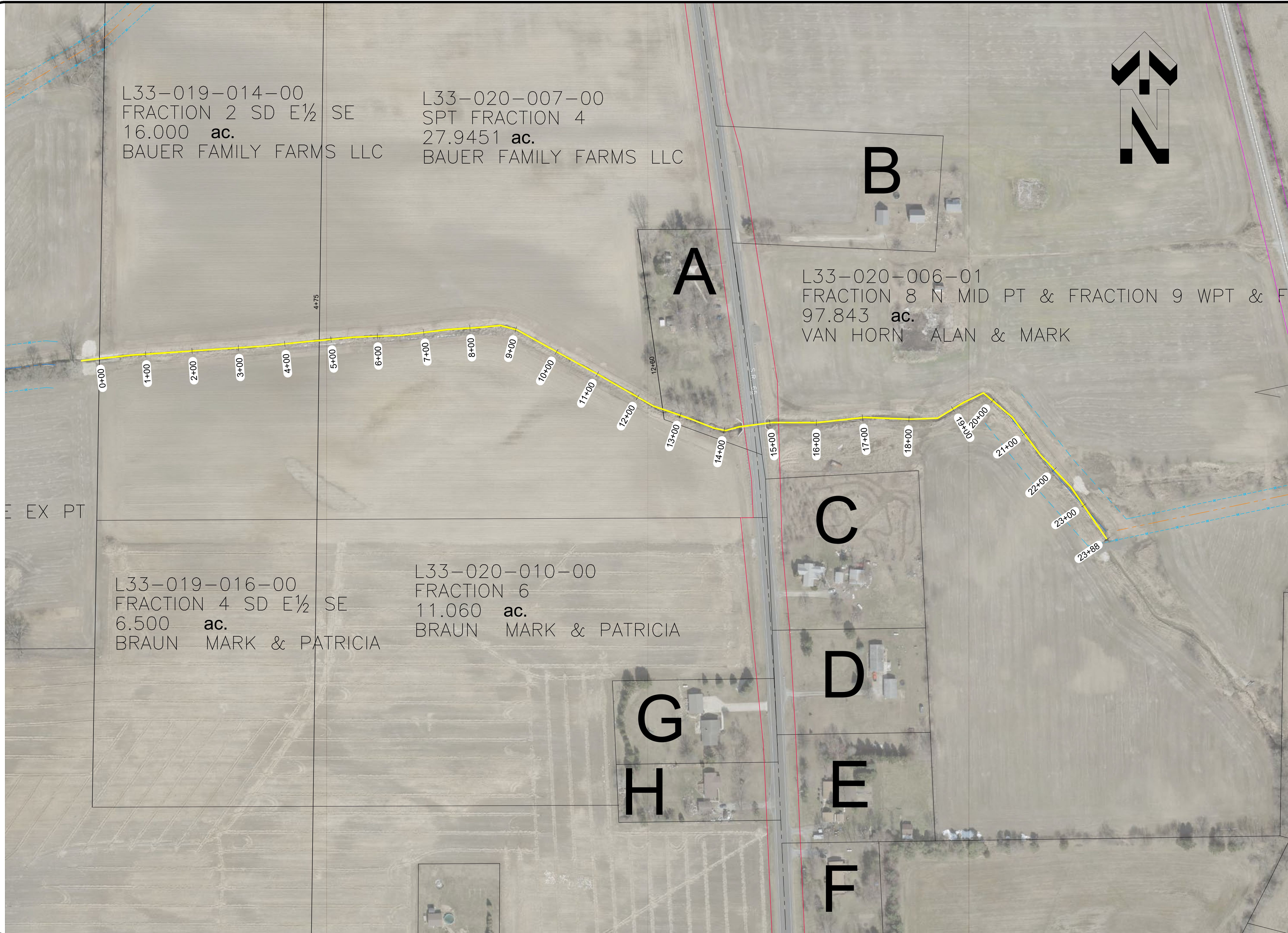
Note
Auglaize County will not be held liable for any damage that may occur to field tile.

Note
All OSHA regulations will be observed during construction and will be the responsibility of the contractor to supervise his crew and conform to these regulations.

P.O. Box 59
1014 South Blackhoof Street
Wapakoneta, Ohio 45895
419-739-6520

**AUGLAIZE COUNTY
ENGINEER**

Sheet Number **2**
10



Designed	<i>Sam Robert</i>	Date	5-2024
Drawn	<i>Sam Robert</i>		
Checked			
Revised			

PLAN VIEW
BAUER #2
 Auglaize County, Union Township Section 19 - 20

P.O. Box 59
 1014 South Blackhoof Street
 Wapakoneta, Ohio 45895
 419-739-6520



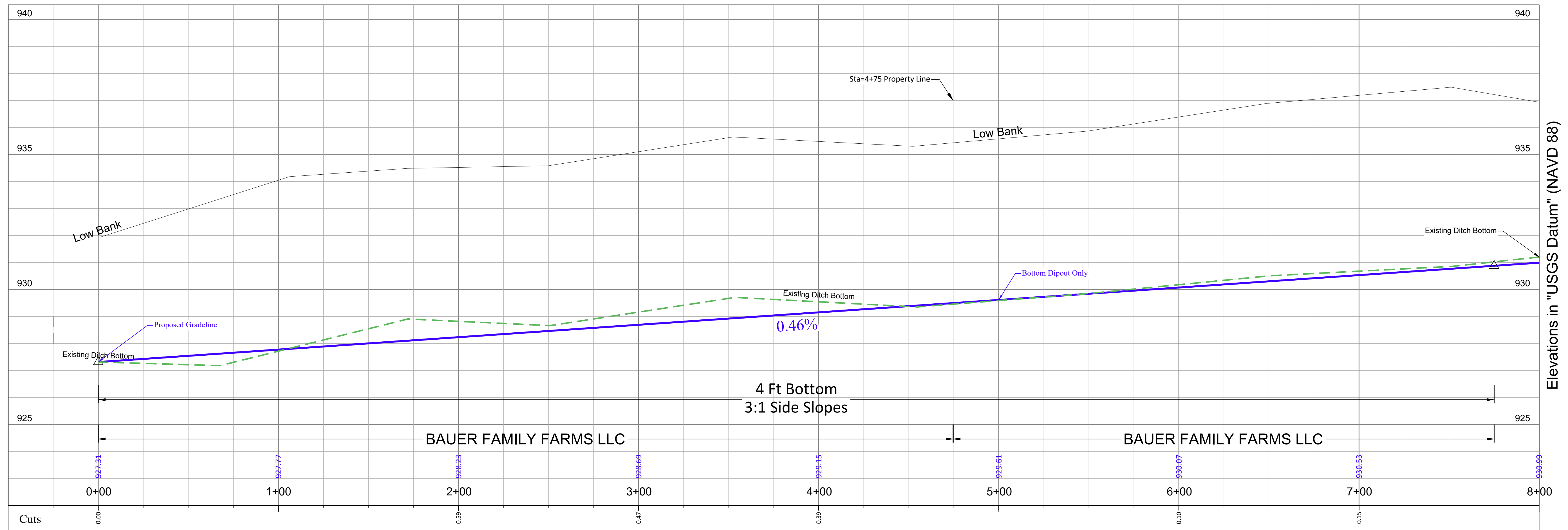
AUGLAIZE COUNTY
 ENGINEER



Date	5-2024
Designed	<i>[Signature]</i>
Drawn	<i>[Signature]</i>
Checked	
Revised	

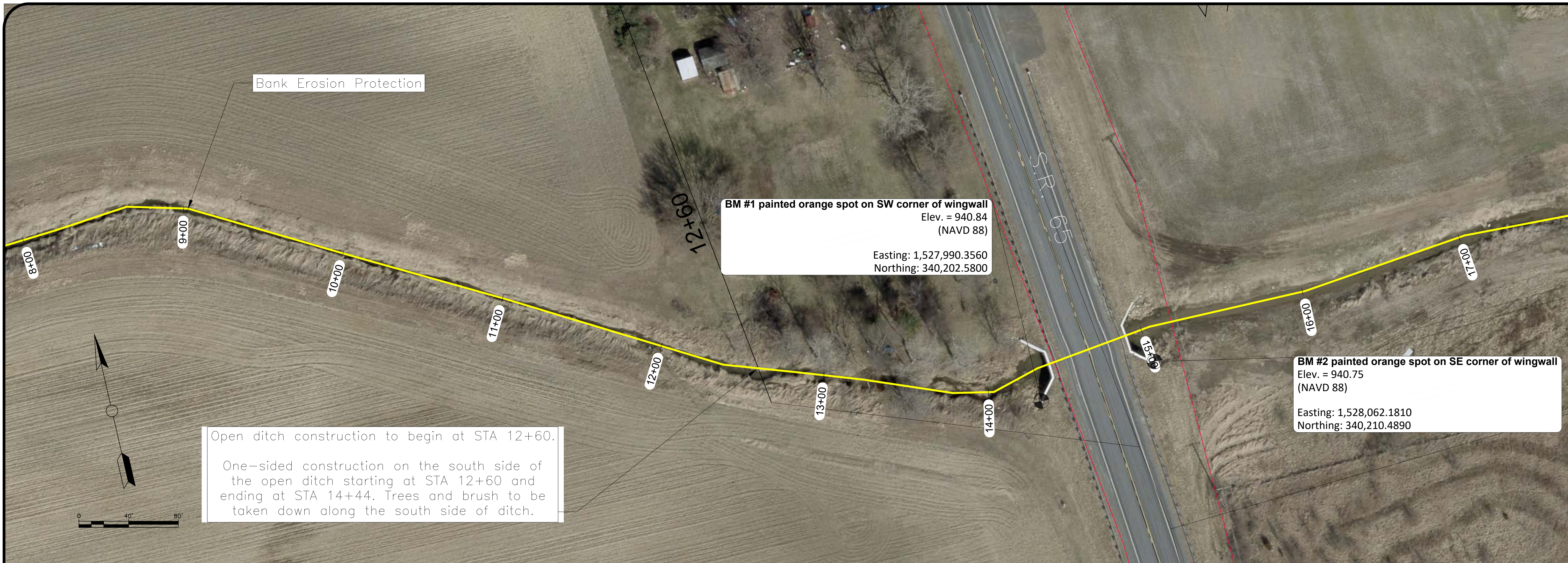
Plan & Profile
BAUER #2 DITCH
 AUGLAIZE County, UNION Township Sections 19-20

Profile View of Bauer Open Ditch

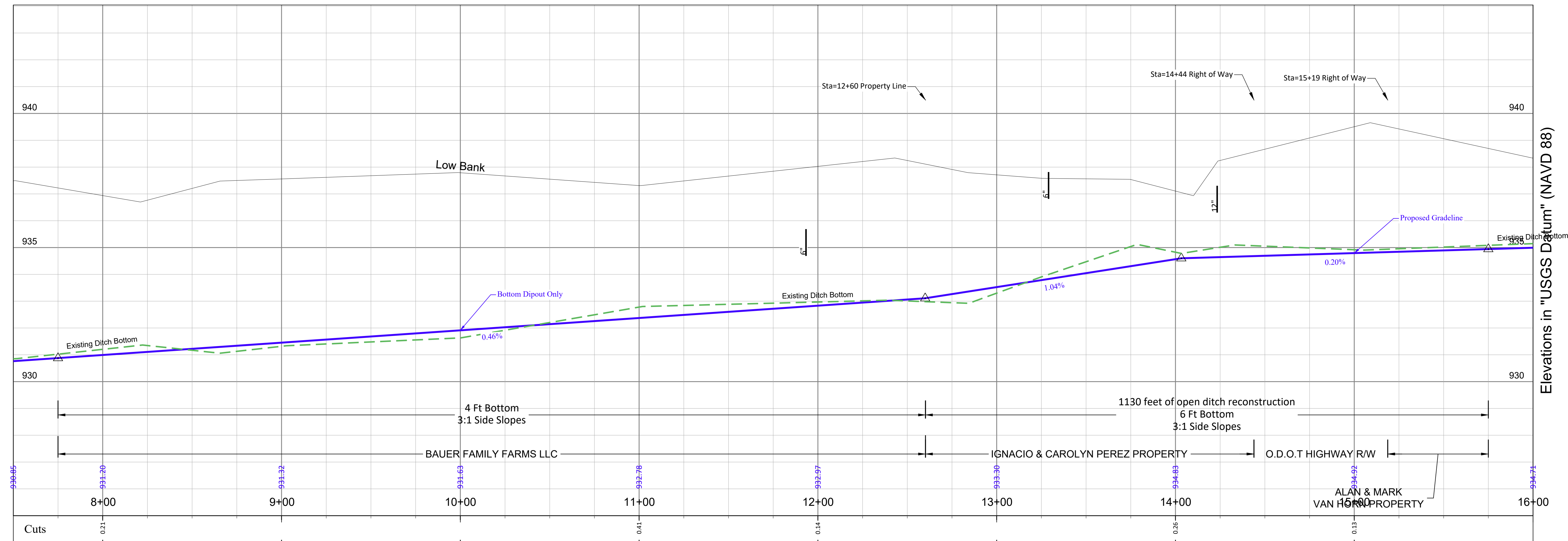


P.O. Box 59
 1014 South Blackhoof Street
 Wapakoneta, Ohio 45895
 419-739-6520

AUGLAIZE COUNTY
 ENGINEER



Profile View of Bauer Open Ditch



Date	Designed	Drawn	Checked	Revised
5-2024	<i>[Signature]</i>	<i>[Signature]</i>		
5-2024				

Plan & Profile
BAUER #2 DITCH
AUGLAIZE County, UNION Township Sections 19-20

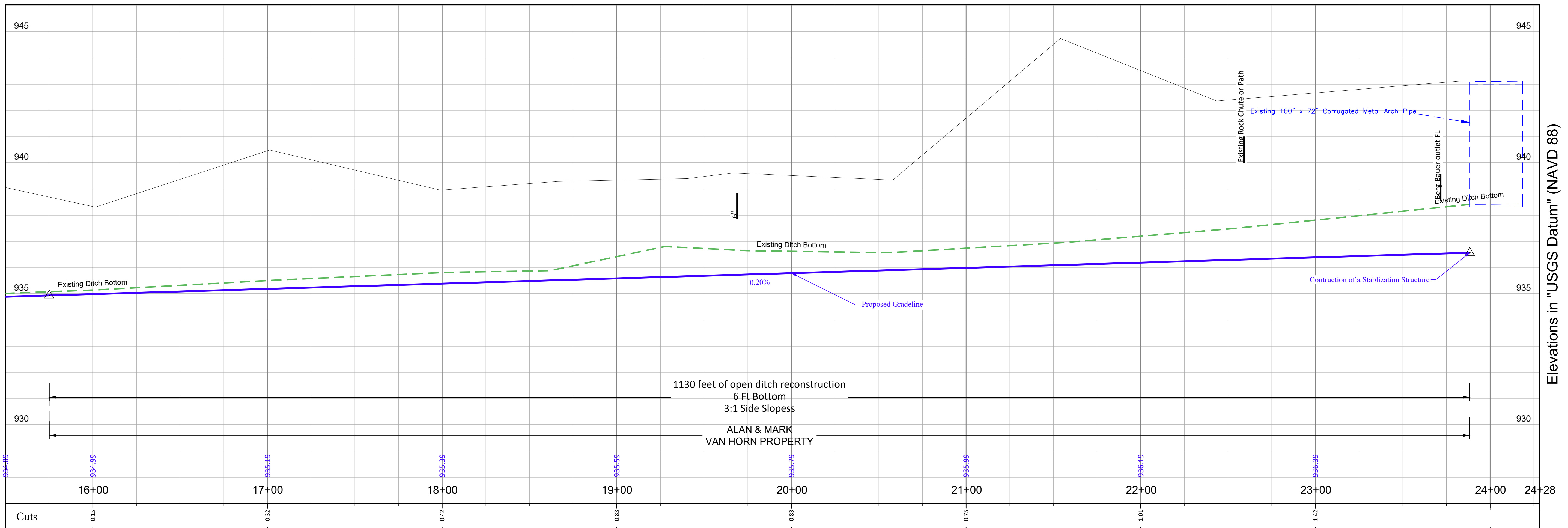
P.O. Box 59
1014 South Blackhoof Street
Wapakoneta, Ohio 45895
419-739-6520

AUGLAIZE COUNTY
ENGINEER



BM #2 painted orange spot on SE corner of wingwall
 Elev. = 940.75
 (NAVD 88)
 Easting: 1,528,062.1810
 Northing: 340,210.4890

Profile View of Bauer Open Ditch



Date	5-2024	5-2024
Designed	<i>[Signature]</i>	<i>[Signature]</i>
Drawn	<i>[Signature]</i>	<i>[Signature]</i>
Checked		
Revised		

Plan & Profile
BAUER #2 DITCH
 AUGLAIZE County, UNION Township Sections 19-20

P.O. Box 59
 1014 South Blackhoof Street
 Wapakoneta, Ohio 45895
 419-739-6520

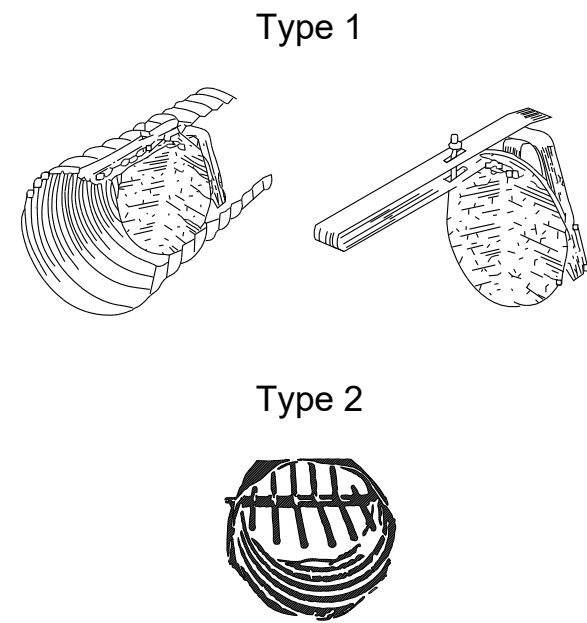
AUGLAIZE COUNTY
E N G I N E E R

BAUER #2 DITCH DESIGN INFORMATION

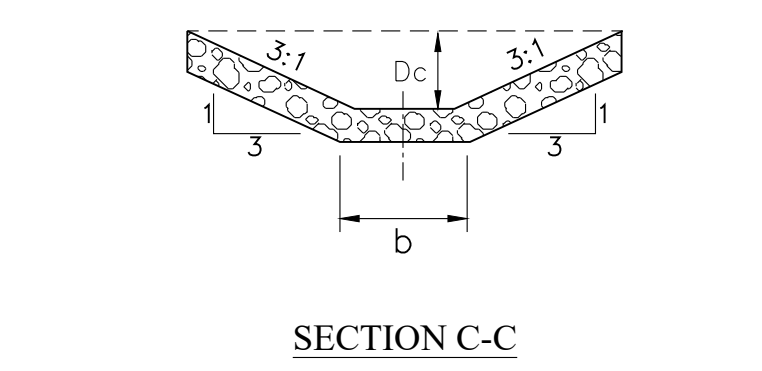
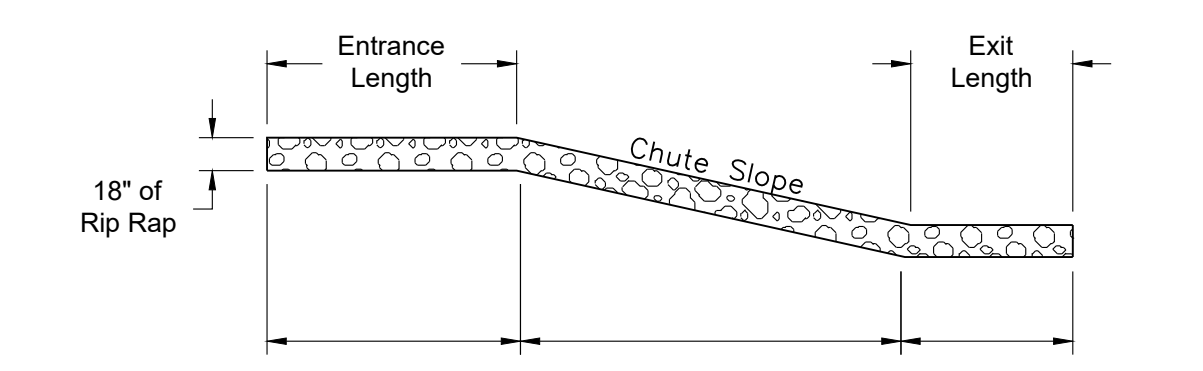
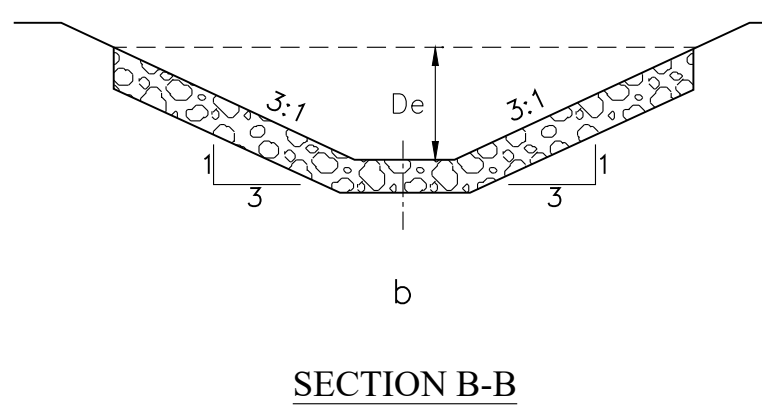
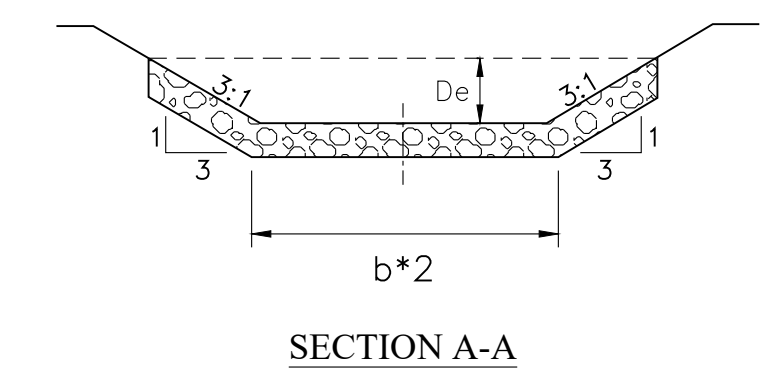
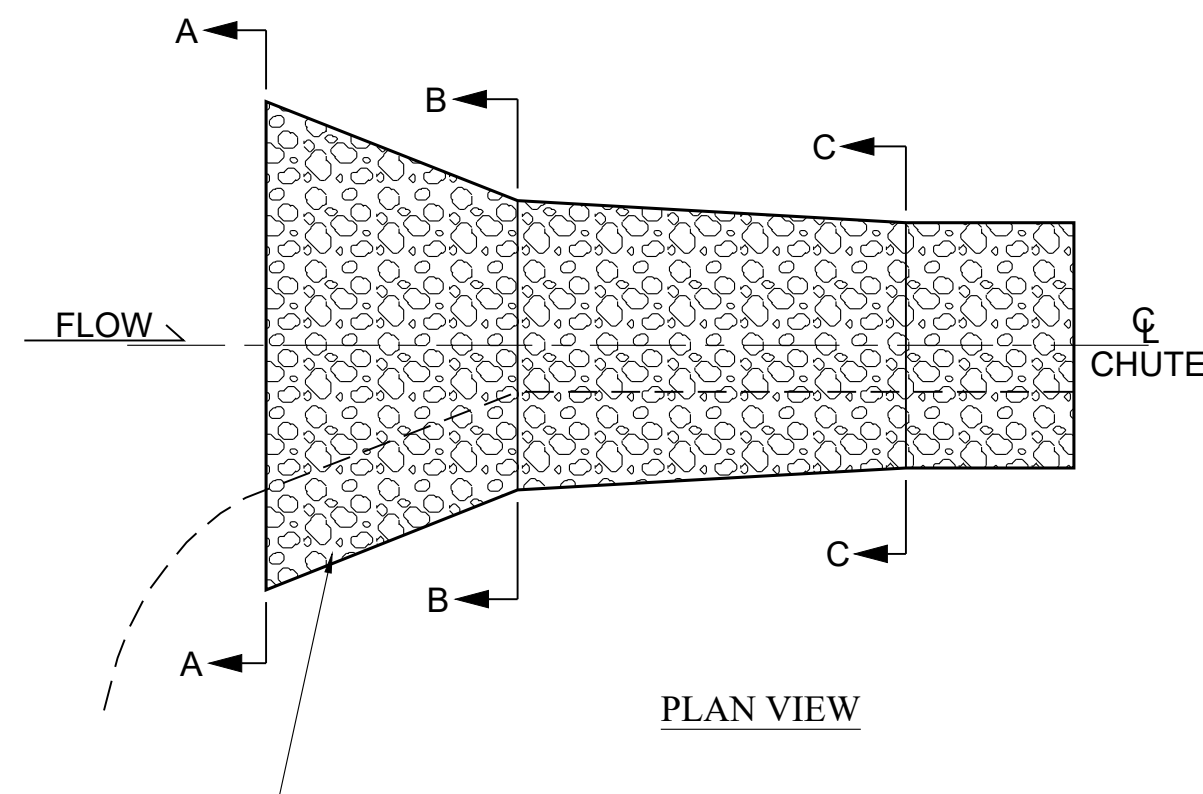
Open Ditch Drainage Design Chart

Reach	Starting Station	Ending Station	Acres Drained	QB Flow (cfs)	N Value	KD Value	Slope (ft/ft)	Side Slopes (? : 1)	Bottom Width (ft)	Flow Depth (ft)	Flow Area (sq. ft)	Design Velocity (ft/sec)	Maximum Velocity (ft/sec)
Reach 1	0+00	12+60	928	98	0.04	1494	0.0046	3	4	2.6	30.68	3.30	5.01
Reach 2	12+60	14+04	832	92	0.04	950	0.0104	3	6	1.9	22.23	4.36	4.80
Reach 3	14+04	23+88	423	65	0.04	1539	0.0020	3	6	2.4	31.68	2.17	4.63

TYPES OF ANIMAL GUARDS TO BE USED



RIP RAP SPECIFICATIONS

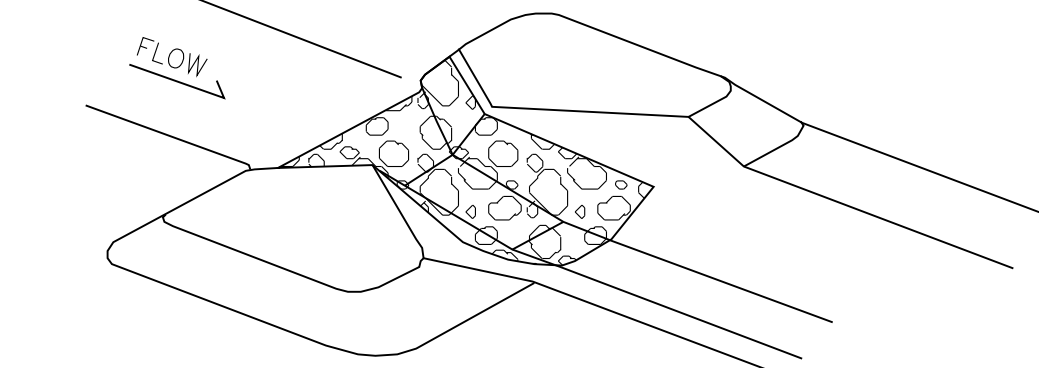


Type C shall consist of sizes such that at least 85 percent of the total material by weight shall be larger than an 6 inch (150 mm) but less than a 18 inch (0.5 m) square opening. At least 50 percent of the total material by weight shall be larger than a 12 inch (0.3 m) square opening. The material smaller than a 6 inch (150 mm) square opening shall consist predominantly of rock spalls and rock fines and shall be free of soil.

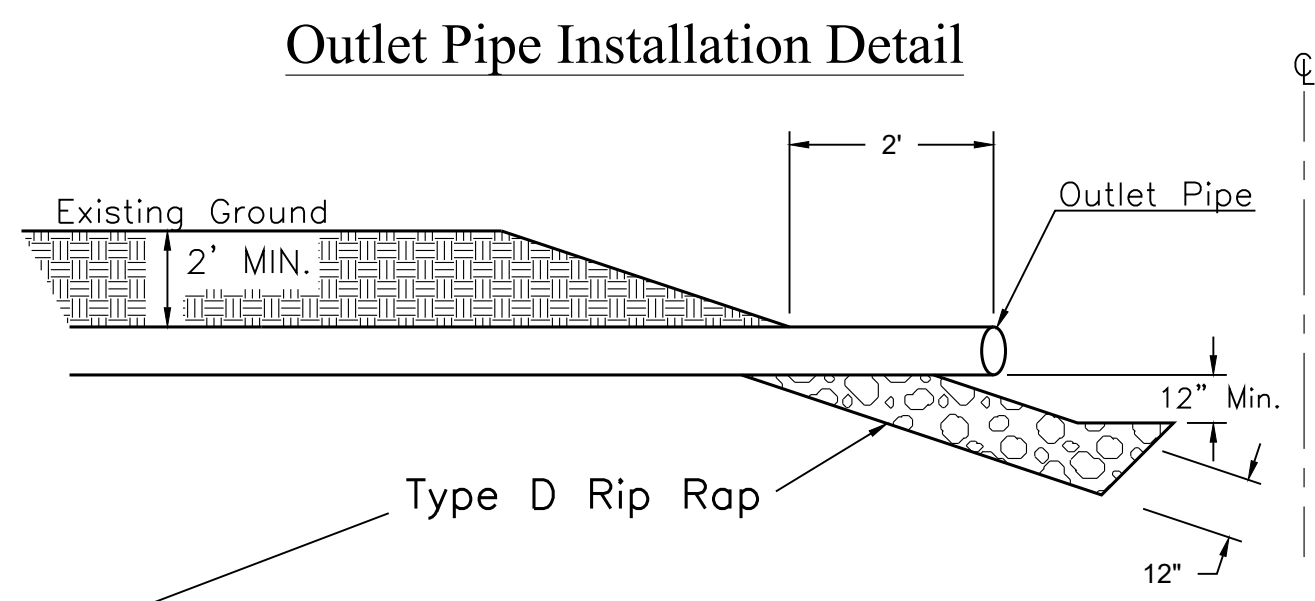
Quantity: 210 Tons for grade stabilization

Type D shall consist of sizes such that at least 85 percent of the total material by weight shall be larger than an 3 inch (75 mm) but less than a 12 inch (0.3 m) square opening. At least 50 percent of the total material by weight shall be larger than a 6 inch (150 mm) square opening. The material smaller than a 3 inch (75 mm) square opening shall consist predominantly of rock spalls and rock fines and shall be free of soil.

Quantity: 10 Tons for replacement of outlet pipes



ISOMETRIC VIEW

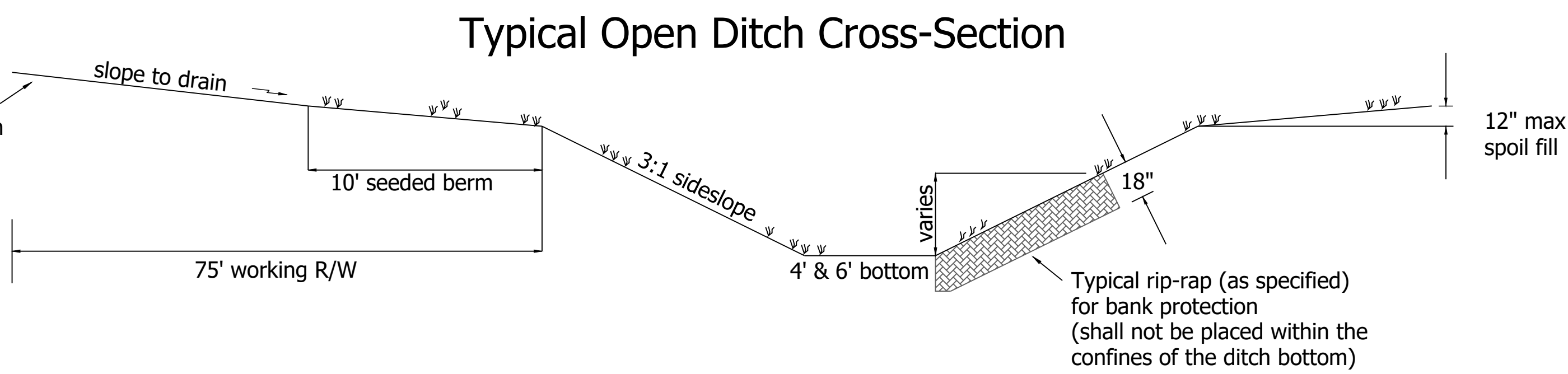


Type D shall consist of sizes such that at least 85 percent of the total material by weight shall be larger than an 3 inch (75 mm) but less than a 12 inch (0.3 m) square opening. At least 50 percent of the total material by weight shall be larger than a 6 inch (150 mm) square opening. The material smaller than a 3 inch (75 mm) square opening shall consist predominantly of rock spalls and rock fines and shall be free of soil.

OUTLET PIPE SCHEDULE

Station	Size (in.)	Bank	Landowner	Parcel ID	Replace (Yes/No)
11+94	6	Left	Bauer Family Farms LLC	L33-020-007-00	Yes
13+30	6	Left	Ignacio & Carolyn Perez	L33-020-007-01	Yes
14+23	12	Left	Ignacio & Carolyn Perez	L33-020-007-01	No
19+69	6	Right	Alan & Mark Van Horn	L33-030-006-01	Yes

Any disturbed Filter Strip shall be re-established to original condition (including adjacent waterways)



Typical Open Ditch Cross-Section

Date	5-2024
Designed	[Signature]
Drawn	[Signature]
Checked	
Revised	

DESIGN INFORMATION
Bauer #2 Ditch
 AUGLAIZE County, UNION Township Sections 19-20

P.O. Box 69
 1014 South Blackhoof Street
 Wapakoneta, Ohio 45895
 419-739-6520
AUGLAIZE COUNTY
ENGINEER

OPEN DITCH SPECIFICATIONS

BAUER #2 DITCH

Contractor References

It shall be required from any bidding contractor who has never been awarded a contract with the Auglaize County Engineer, that, as a part of their bid, the contractor shall furnish a list of at least six (6) personal references to a project that have been inspected and 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, sub-mains, laterals, 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.

Materials

All tile outlet and culvert pipe installed as a part of this project shall be of the following type(s) of material:

Where called for in the plans, all smooth-wall interior polyethylene plastic pipe shall be manufactured by Advanced Drainage Systems (ADS N-12), Fratco (Smooth Core), Haviland (Smooth Flow), or by Baughman (Dual Wall Pipe). There shall be absolutely no substitutes permitted by any other manufacturer. All polyethylene pipe must have at least 18" of cover, and is bedded in #57 aggregate.

Where called for in the plans, all corrugated metal pipe installed as a part of this project shall be 12 gauge steel riveted culvert pipe. No spiral aluminum pipe shall be permitted for use on this project.

Where called for in the plans, all field tile connections to outlet pipe shall be smooth-wall interior polyethylene plastic pipe by the above mentioned manufacturers. All connections shall be made of the same materials as specified for HDPE pipe. All tile lateral connections shall be inspected by the engineer prior to backfilling. All lateral connections shall be properly mortared with high quality extra strength mortar, or proper premanufactured fitting be used for proper connection.

All polyethylene pipe, fittings and connections delivered to the job site shall be subject to the inspection and approval of the Auglaize County Engineer before installation. Failure to allow the County Engineer to inspect the quality and workmanship of said supplied pipe materials before installation shall result in nonpayment for that amount of installed pipe. The County Engineer reserves the right to accept or reject any or all polyethylene pipe products delivered to the site at his professional discretion.

Liability

As required by the Board of County Commissioners of Auglaize County, all contracts let for bid by them for the purpose of ditch construction shall be supplied with the following insurance information by the awarded contractor:

- (1) The limits of liability insurance shall not be less than \$ 500,000 for bodily injury, property damage, and personal injury
- (2) The Policy shall be on comprehensive for including products, completed operations, and contractual liability.
- (3) Before work is to begin by the contractor a Certificate of Insurance shall be on file with the Board of County Commissioners.

In the event that the contractor or anyone under his employment unlawfully damages any real property, he shall restore said property as to a condition equal to or better than the original. The contractor shall be responsible for all injuries to persons resulting from negligence of himself or any of his employees during the continuances of this contract and shall hold Auglaize County, the Board of Commissioners and the County Engineer harmless from any or all actions which would result from said damages or injuries, or both.

Right-of-Way & Construction Easement

The width of working right-of-way shall be limited to 75 feet from the top of each bank of the proposed ditch. The contractor has the the privilege of using the right-of-way area during construction for purposes of ingress-egress, excavation and back filling, placement of seed, fertilizer, and mulch, etc. 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.

Rip - Rap

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 as 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 (Rip-rap gradation). 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 for by the unit 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.

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.

Brush Removal & Disposal

All trees, stumps, and grubbing within the confines of the ditch channel, slopes, and berms, shall be removed in their entirety. There shall be no flush cutting allowed except where approved by the engineer. All brush to be removed as a part of this project shall be burned, buried, or disposed of in a satisfactory manner in convenient locations approved by the engineer on the project site. All materials buried on the site shall have a minimum 36" of clean, native soil backfill over the disposal site. All landowners adjacent to the open channel reserve the right to cut any or all brush for firewood as they feel is fit for such use. The contractor will not be allowed to remove any trees from the site without the written permission of the landowner.

If applicable, a burning permit shall be obtained from the local fire department or jurisdiction prior to the igniting of any brush pile. NO TIRES shall be used to ignite any brush pile.

Excavation & Leveling

All bank slopes for this project shall be excavated at a minimum 3:1 slope unless otherwise shown. All work shall be properly dressed from the bottom of the channel to the top of the bank before acceptance. All spoil banks shall be properly leveled and free of debris prior to final seeding and fertilizing. All spoil areas shall not exceed 12" in depth, and shall be properly graded to maintain drainage from the adjacent fields. The entire area shall be free of brush, rocks, and tile bats before final approval and acceptance of the project is given. All debris shall be collected, buried and disposed of in a convenient location approved by the engineer on the project site. Teeth are required on the excavator bucket to create a seedbed and the disturbed banks shall be seeded at the conclusion of each day of work.

Seeding & Fertilizing Open Ditches

The contractor shall be responsible for a final seeding and fertilizing of the open ditch banks at the conclusion of each days work. The open ditch berm can be seeded after open ditch reconstruction is complete. Prior to seed and fertilizer application, a seed bed must be prepared by the contractor for the area to be seeded. The seed bed must be free of pockets rocks, roots, limbs, tile bats and other debris in general before final seeding and fertilizing takes place. A successful seeding will be considered if the seeded area has an average of 50 seedlings for 1 square foot of area. A successful seeding must be established before final seeding payment is made.

January 1st through March 31st is considered TEMPORARY seeding (minimum 2 bushels of rye or wheat per acre at expense of contractor)

April 1st through September 30th is ACCEPTABLE seeding time. Mulch cover required for all areas seeded in June, July and August.

October 1st through December 31st is considered TEMPORARY seeding (minimum 2 bushels of rye or wheat per acre at expense of contractor)

Seed & Fertilizer Rates for Open Ditch Banks

<u>SEED REQUIREMENT</u> (500#/ac on ditch banks)	<u>FERTILIZER REQUIREMENT</u> (200#/ac)
80% TURF TYPE FESCUE 10% PERENNIAL RYEGRASS 10% KENTUCKY BLUEGRASS	18-46-0 (Nitrogen-Phosphorous-Potassium)

Seed & Fertilizer Rates for Filter Strips and Ditch Berms

<u>SEED REQUIREMENT</u> (400#/ac on ditch berm and filter strips)	<u>FERTILIZER REQUIREMENT</u> (200#/ac)
80% TURF TYPE FESCUE 10% PERENNIAL RYEGRASS 10% KENTUCKY BLUEGRASS	18-46-0 (Nitrogen-Phosphorous-Potassium)

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 it's 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, submains, 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 alltrenches. 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.

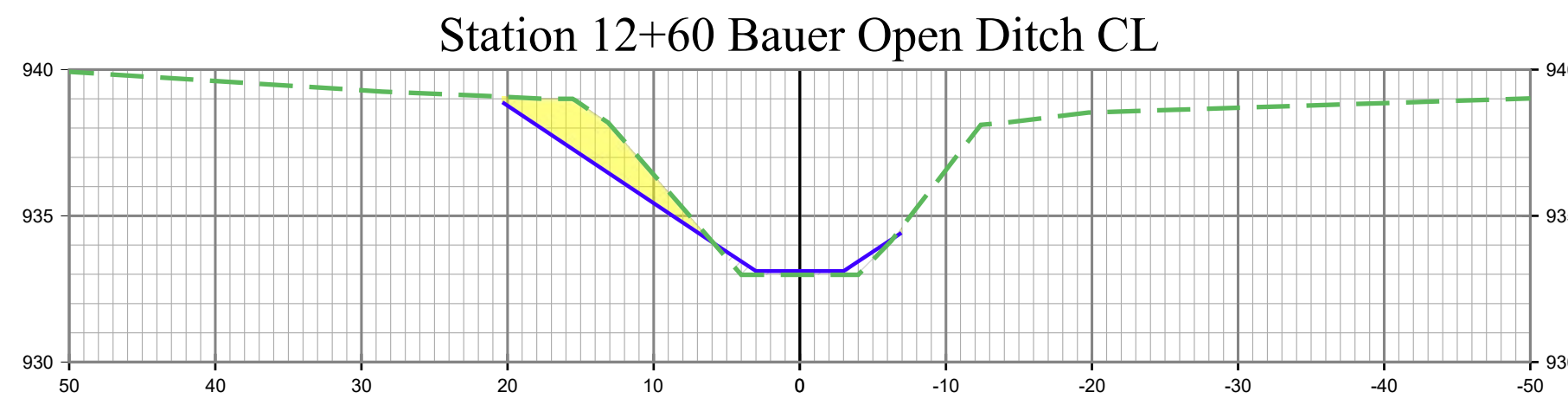
Date	5-2024	5-2024
Designed		
Drawn		
Checked		
Revised		

OPEN DITCH SPECIFICATIONS
Bauer #2 Ditch
AUGLAIZE County, UNION Township Sections 19-20

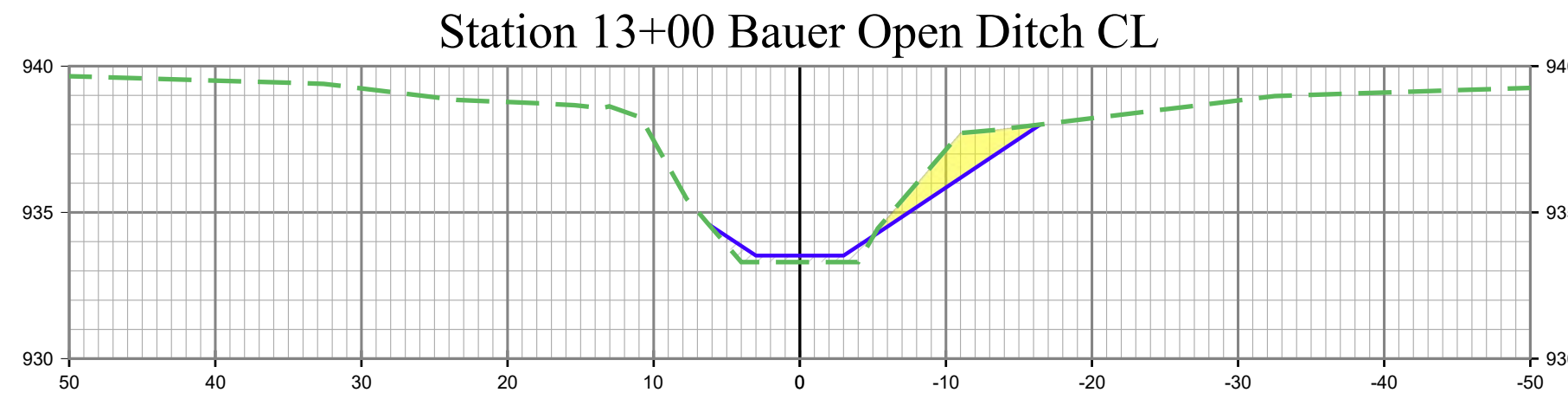
P.O. Box 59
 1014 South Blackhoof Street
 Wapakoneta, Ohio 45895
 419-739-6520



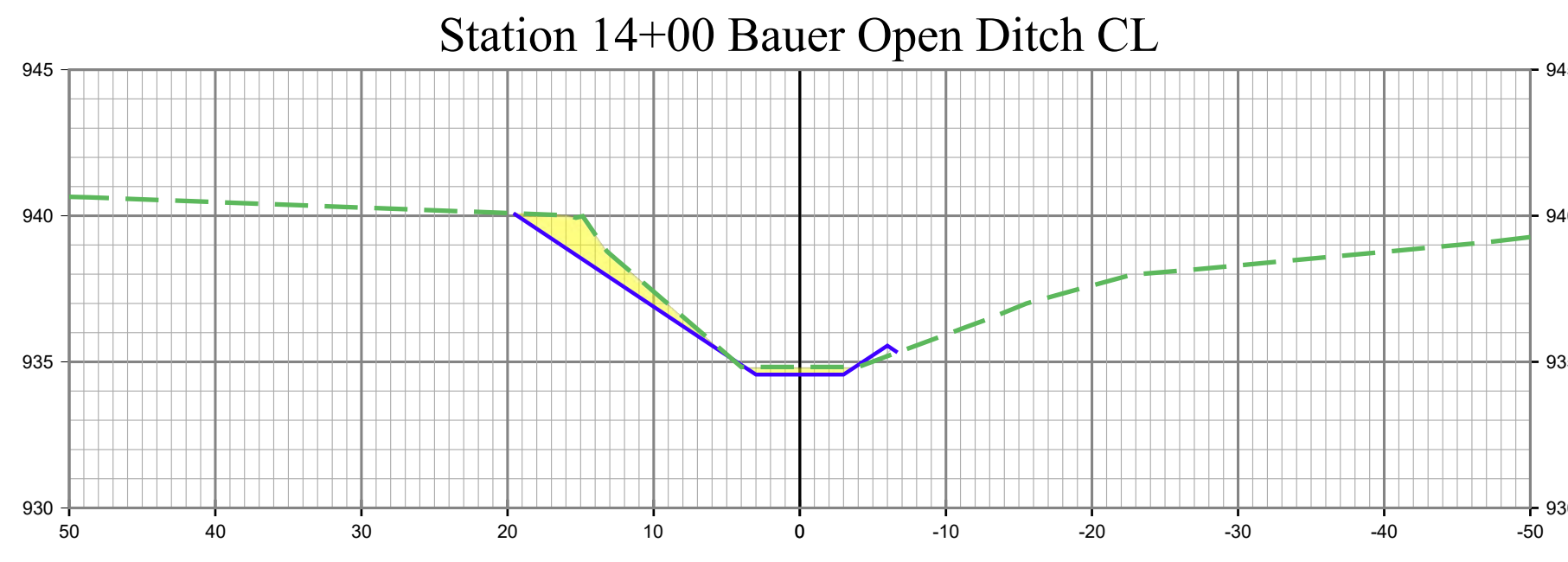
AUGLAIZE COUNTY
E N G I N E E R



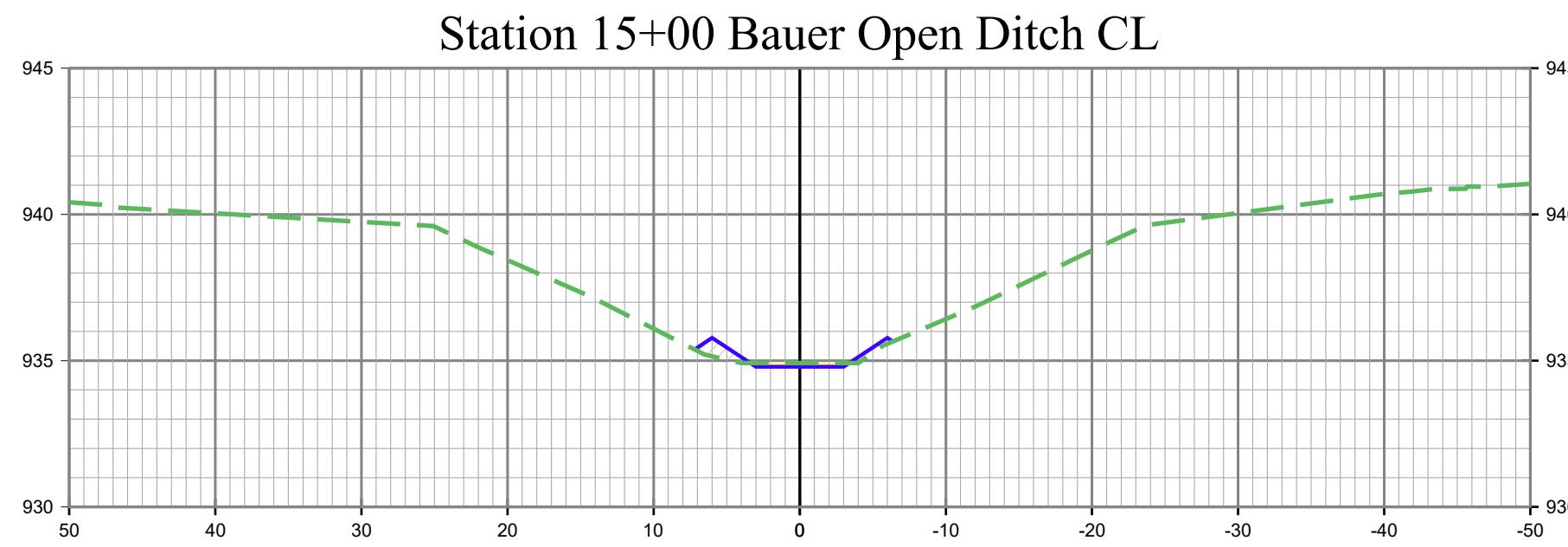
Total Volume at Station 12+60	
Cut Area	15 Sq. Ft.
Fill Area	2 Sq. Ft.
Cut Vol	43 Cu. Yds.
Fill Vol	3 Cu. Yds.
Cum Cut Vol	963 Cu. Yds.
Cum Fill Vol	13 Cu. Yds.
Net Vol	950 Cu. Yds.



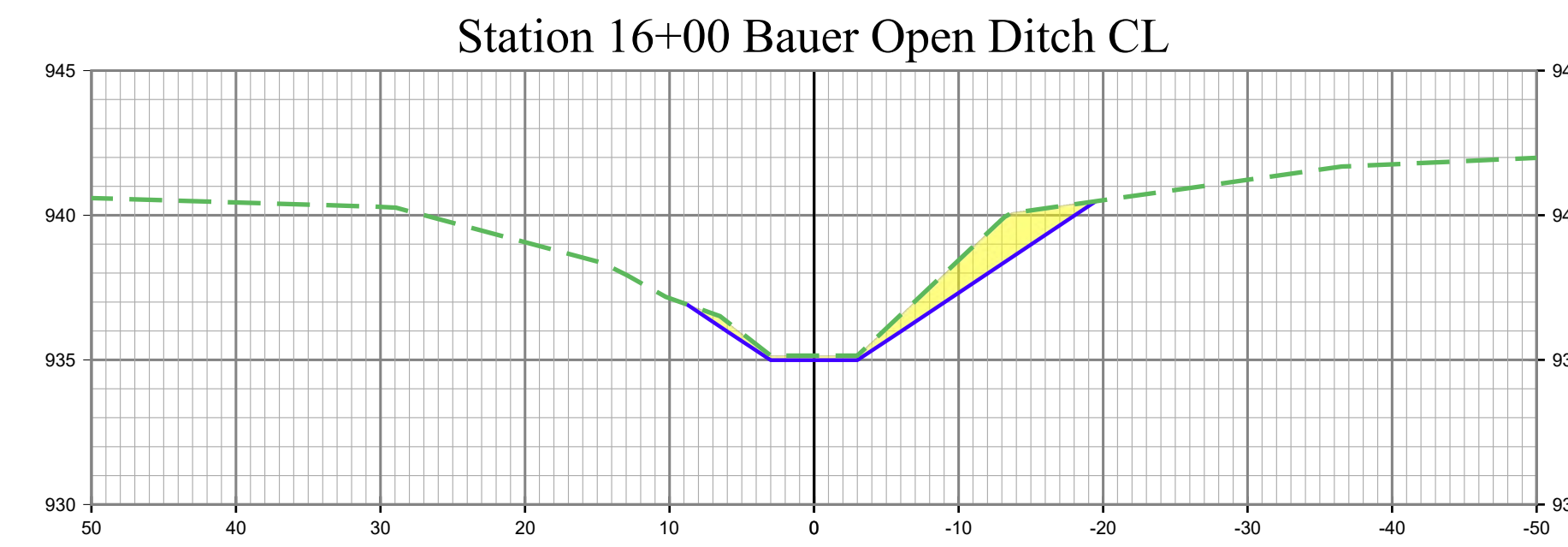
Total Volume at Station 13+00	
Cut Area	9 Sq. Ft.
Fill Area	3 Sq. Ft.
Cut Vol	18 Cu. Yds.
Fill Vol	4 Cu. Yds.
Cum Cut Vol	981 Cu. Yds.
Cum Fill Vol	17 Cu. Yds.
Net Vol	963 Cu. Yds.



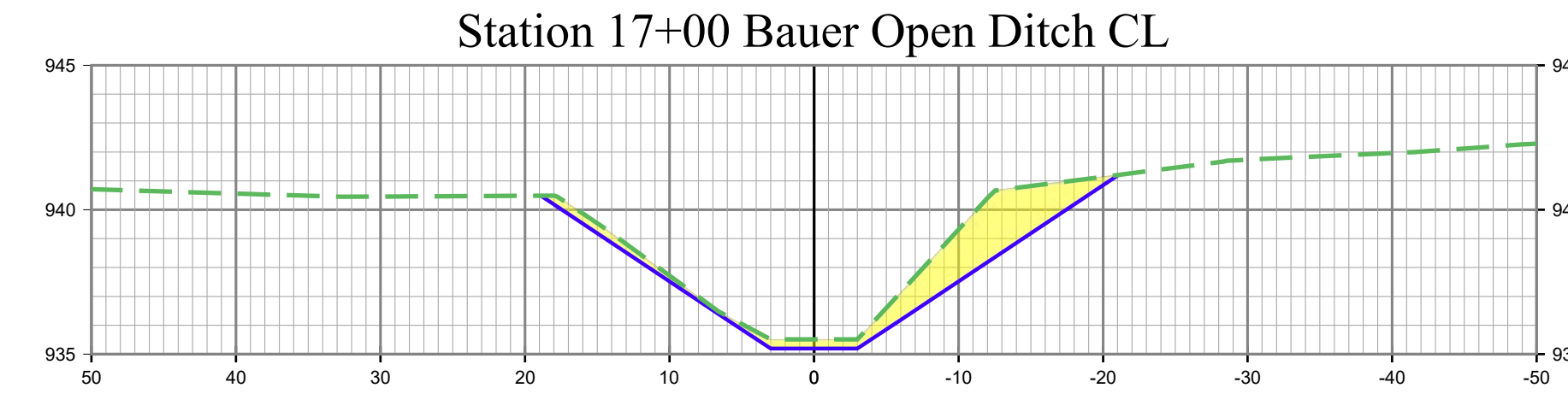
Total Volume at Station 14+00	
Cut Area	11 Sq. Ft.
Fill Area	1 Sq. Ft.
Cut Vol	37 Cu. Yds.
Fill Vol	7 Cu. Yds.
Cum Cut Vol	1,017 Cu. Yds.
Cum Fill Vol	24 Cu. Yds.
Net Vol	993 Cu. Yds.



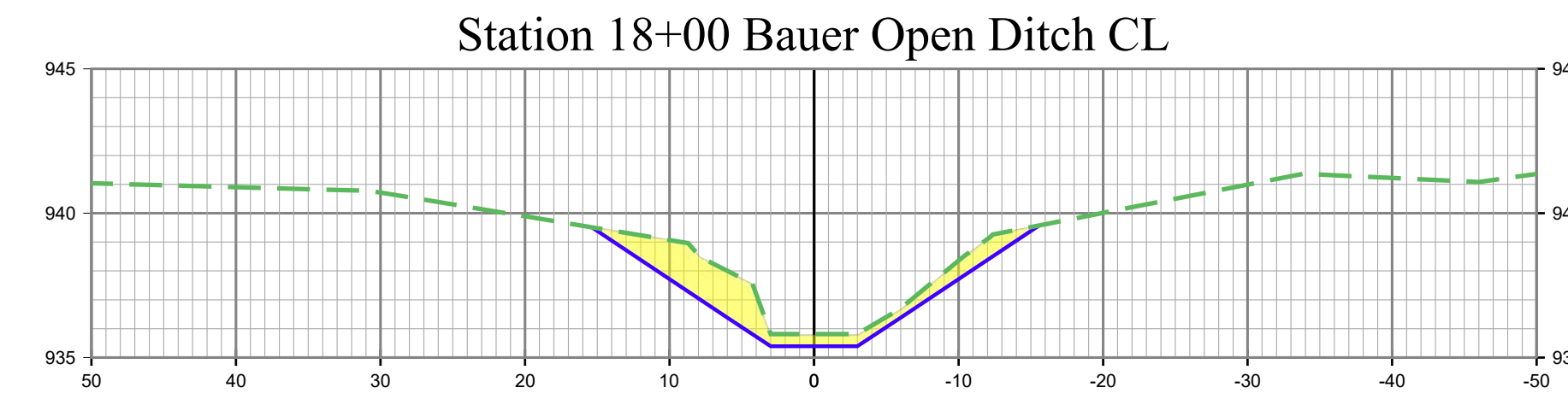
Total Volume at Station 15+00	
Cut Area	1 Sq. Ft.
Fill Area	2 Sq. Ft.
Cut Vol	22 Cu. Yds.
Fill Vol	4 Cu. Yds.
Cum Cut Vol	1,039 Cu. Yds.
Cum Fill Vol	29 Cu. Yds.
Net Vol	1,011 Cu. Yds.



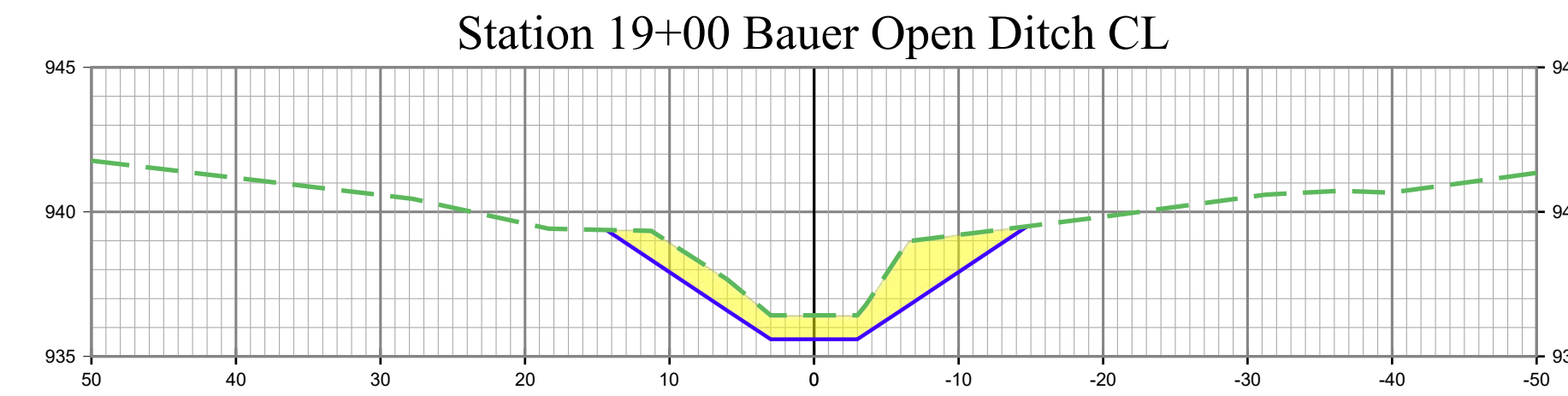
Total Volume at Station 16+00	
Cut Area	16 Sq. Ft.
Fill Area	0 Sq. Ft.
Cut Vol	32 Cu. Yds.
Fill Vol	3 Cu. Yds.
Cum Cut Vol	1,071 Cu. Yds.
Cum Fill Vol	32 Cu. Yds.
Net Vol	1,039 Cu. Yds.



Total Volume at Station 17+00	
Cut Area	28 Sq. Ft.
Fill Area	0 Sq. Ft.
Cut Vol	82 Cu. Yds.
Fill Vol	0 Cu. Yds.
Cum Cut Vol	1,153 Cu. Yds.
Cum Fill Vol	32 Cu. Yds.
Net Vol	1,121 Cu. Yds.



Total Volume at Station 18+00	
Cut Area	23 Sq. Ft.
Fill Area	0 Sq. Ft.
Cut Vol	95 Cu. Yds.
Fill Vol	0 Cu. Yds.
Cum Cut Vol	1,248 Cu. Yds.
Cum Fill Vol	32 Cu. Yds.
Net Vol	1,216 Cu. Yds.



Total Volume at Station 19+00	
Cut Area	29 Sq. Ft.
Fill Area	0 Sq. Ft.
Cut Vol	96 Cu. Yds.
Fill Vol	0 Cu. Yds.
Cum Cut Vol	1,344 Cu. Yds.
Cum Fill Vol	32 Cu. Yds.
Net Vol	1,312 Cu. Yds.

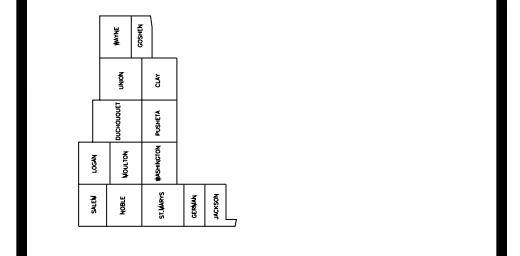
Date	5-2024	5-2024
Designed		
Drawn		
Checked		
Revised		

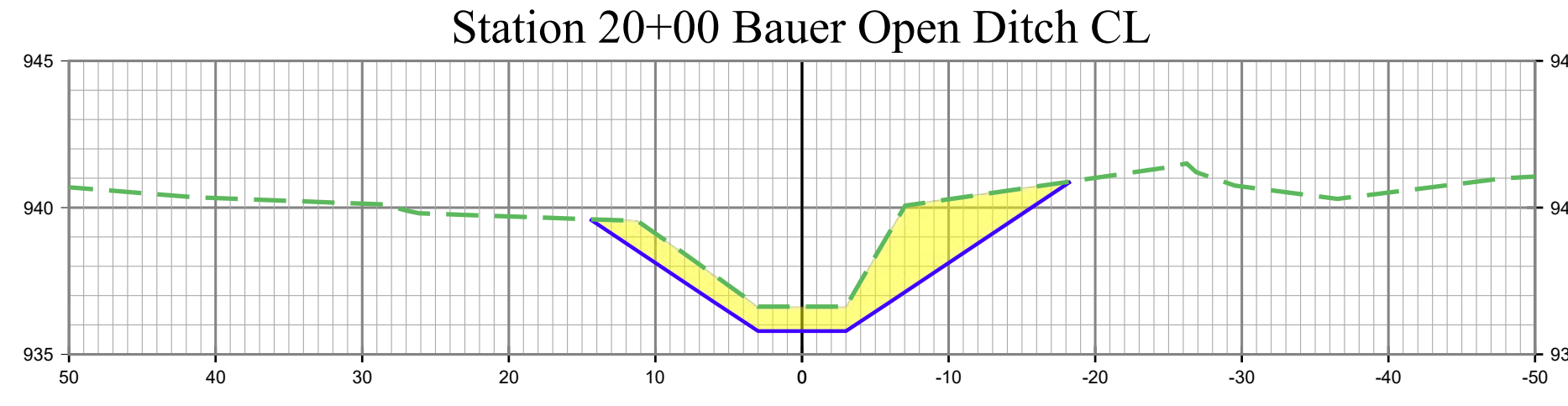
Cross Sections BAUER #2 DITCH

Auglaize County, Union Township Section 19 - 20

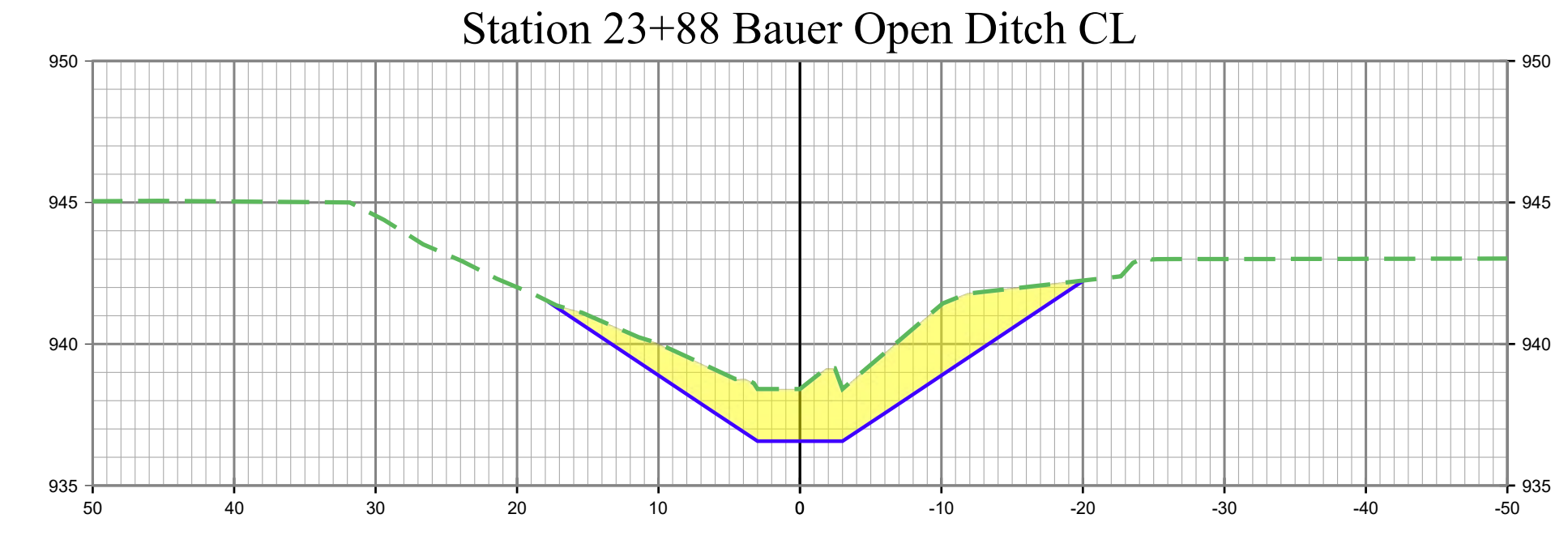
**Auglaize County
Engineer's Office**

P. O. Box 59
1014 South Blackhoof Street
Wapakoneta, Ohio 45895
419-739-6520

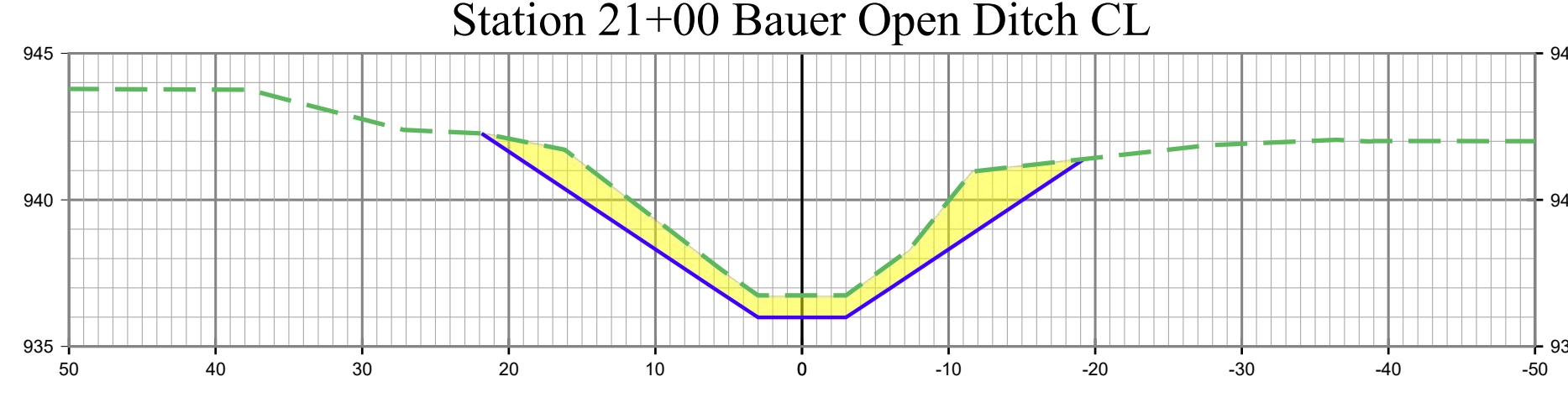




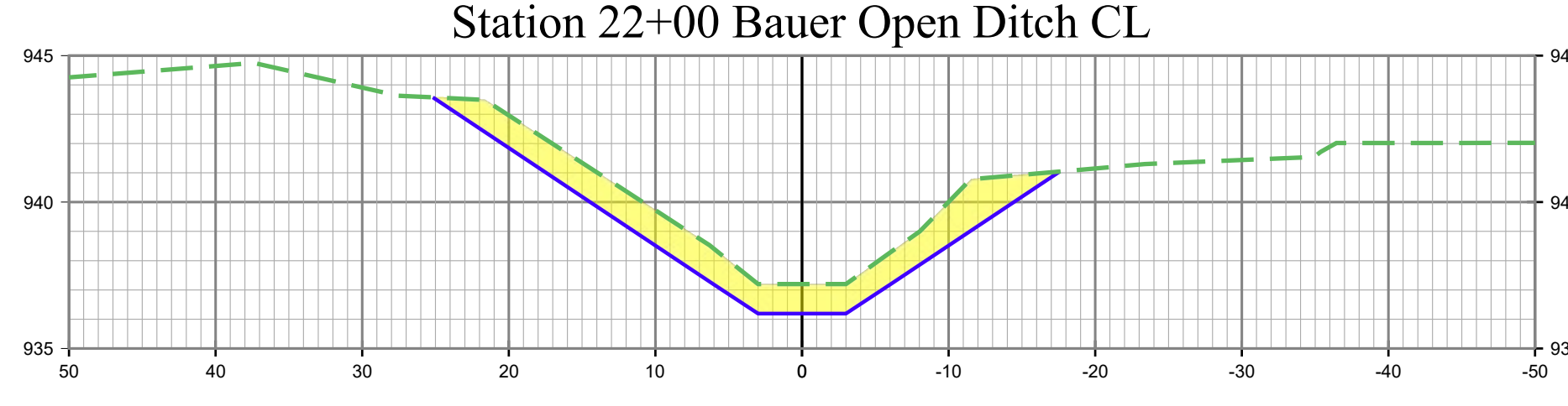
Total Volume at Station 20+00	
Cut Area	39 Sq. Ft.
Fill Area	0 Sq. Ft.
Cut Vol	130 Cu. Yds.
Fill Vol	0 Cu. Yds.
Cum Cut Vol	1,474 Cu. Yds.
Cum Fill Vol	32 Cu. Yds.
Net Vol	1,442 Cu. Yds.



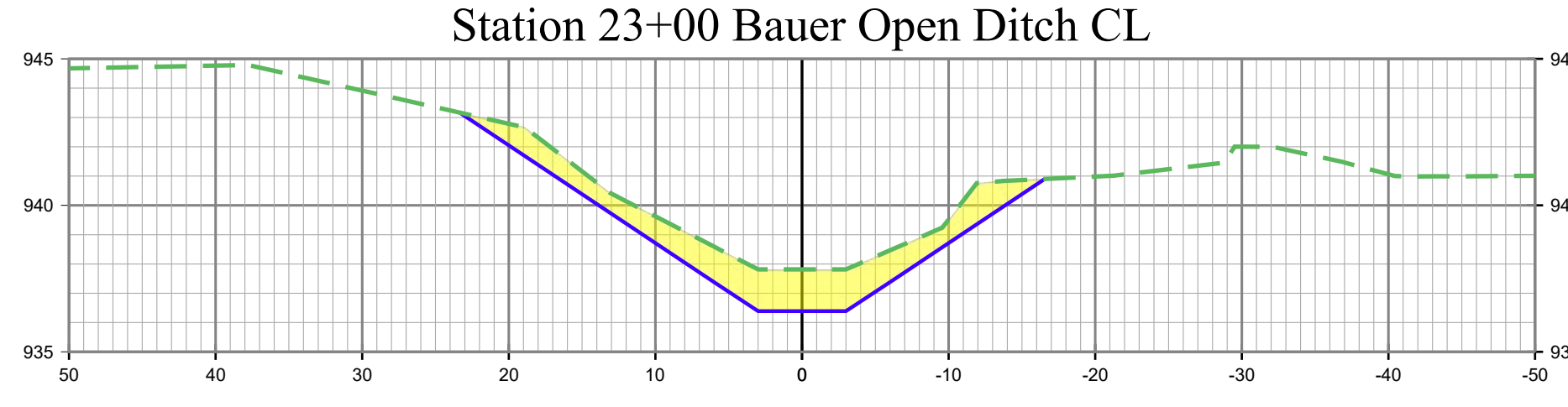
Total Volume at Station 23+88	
Cut Area	56 Sq. Ft.
Fill Area	0 Sq. Ft.
Cut Vol	155 Cu. Yds.
Fill Vol	0 Cu. Yds.
Cum Cut Vol	2,088 Cu. Yds.
Cum Fill Vol	32 Cu. Yds.
Net Vol	2,056 Cu. Yds.



Total Volume at Station 21+00	
Cut Area	40 Sq. Ft.
Fill Area	0 Sq. Ft.
Cut Vol	146 Cu. Yds.
Fill Vol	0 Cu. Yds.
Cum Cut Vol	1,620 Cu. Yds.
Cum Fill Vol	32 Cu. Yds.
Net Vol	1,588 Cu. Yds.



Total Volume at Station 22+00	
Cut Area	45 Sq. Ft.
Fill Area	0 Sq. Ft.
Cut Vol	158 Cu. Yds.
Fill Vol	0 Cu. Yds.
Cum Cut Vol	1,778 Cu. Yds.
Cum Fill Vol	32 Cu. Yds.
Net Vol	1,746 Cu. Yds.



Total Volume at Station 23+00	
Cut Area	39 Sq. Ft.
Fill Area	0 Sq. Ft.
Cut Vol	155 Cu. Yds.
Fill Vol	0 Cu. Yds.
Cum Cut Vol	1,933 Cu. Yds.
Cum Fill Vol	32 Cu. Yds.
Net Vol	1,901 Cu. Yds.

Date	5-2024	5-2024
Designed		
Drawn		
Checked		
Revised		

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