

BENCHMARKS

BM #1 CHISELED X ON SOUTHEAST CORNER OF WEIR ON DROP STRUCTURE, ON SOUTH SIDE OF TOUSSAINT EAST ROAD ON JOHN KOHLMAN FARM MSL 576.90

BM #2 SPIKE IN NORTH SIDE OF POWER POLE LOCATED APPROXIMATELY 50' EAST OF TURN IN DITCH AT KOHLMAN -HETRICK PROPERTY LINE AT STATION 12+55 MSL 578.32

BM #3 CHISELED X ON EAST END OF 36" RCP CULVERT OF HETRICK FARM LANE AT STATION 21+40 MSL 575.72

BM #4 CHISELED X ON NORTH END OF A 24" RCP ON NORTH SIDE OF TOUSSAINT EAST ROAD AT STATION 0+00 OF SIDE BRANCH A MSL 575.22

BM #5 CHISELED X ON WEST END OF 48" RCP CULVERT DEWITZ FARM LANE AT STATION 34+07 MSL 576.29

BM #6 CHISELED X ON EAST HEADWALL OF DEWITZ BOX CULVERT AT STA 34+82 MSL 576.55

BM #7 CHISELED X ON EAST END OF 60" EQUIVALENT ELLIPTICAL RCP UNDER APLING ROAD AT STATION 48+27 MSL 575.02

BM #8 CHISELED X ON WEST END OF 48" RCP USED FOR GRAVITY FLOW AT THE EXISTING PUMP SYSTEM APPROXIMATELY 600' EAST OF APLING ROAD AT STATION 54+00 MSL 574.15

BM #9 SPIKE IN NORTH SIDE OF POWER POLE ON SOUTH SIDE OF DITCH AT STATION 68+00 JUST WEST OF HEMMINGER FARM DRIVE MSL 577.31

BM #10 SPIKE IN THE SOUTHWEST SIDE OF A 36" DIAMETER COTTONWOOD TREE ON THE NORTH SIDE OF THE DITCH AT STATION 79+15 MSL 579.30

BM #11 SPIKE IN THE SOUTH SIDE OF A 30" DIAMETER COTTONWOOD TREE ON THE NORTH SIDE OF THE DITCH 50' WEST OF THE HEMMINGER BLAUSEY PROPERTY LINE AT STATION 83+90 MSL 579.03

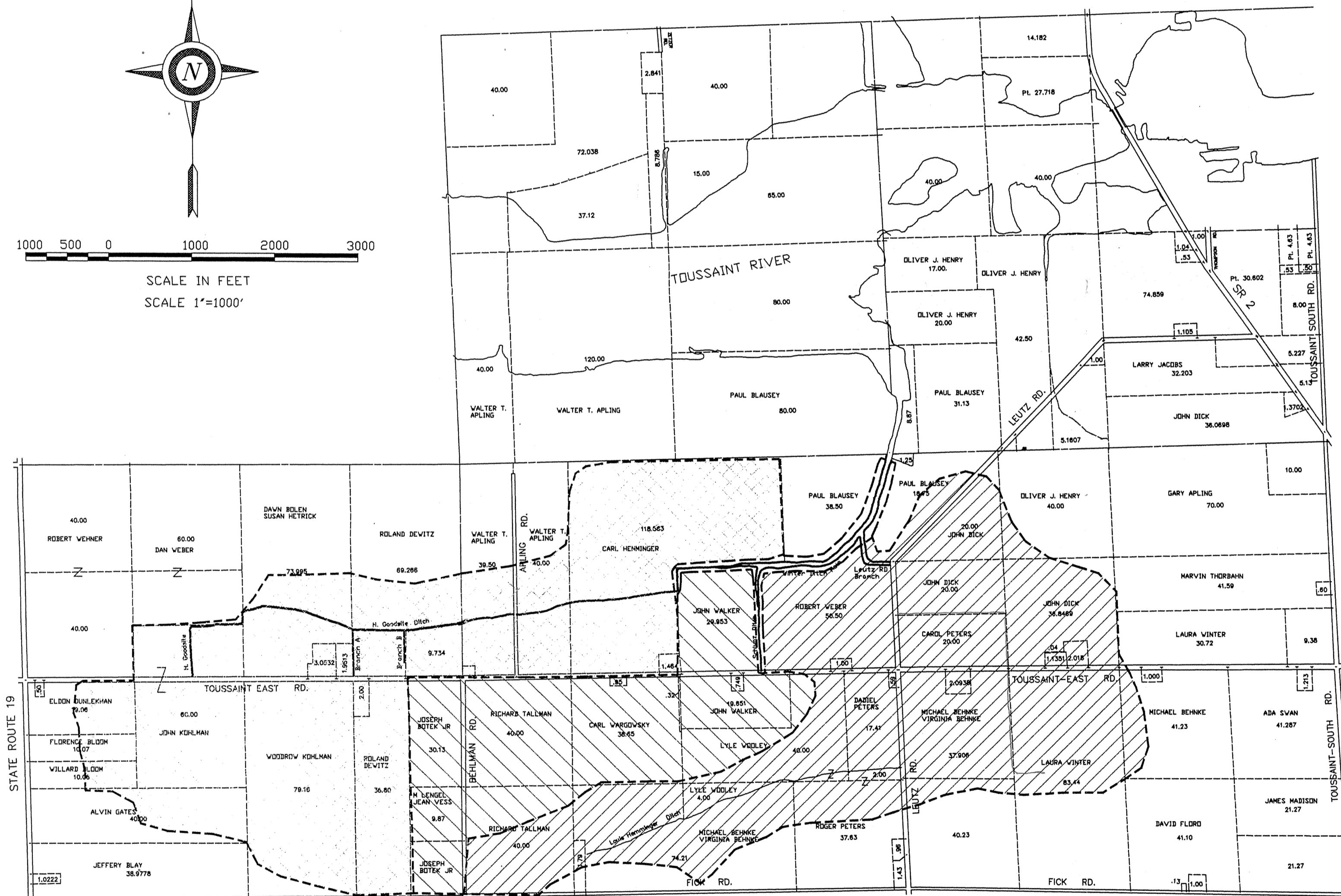
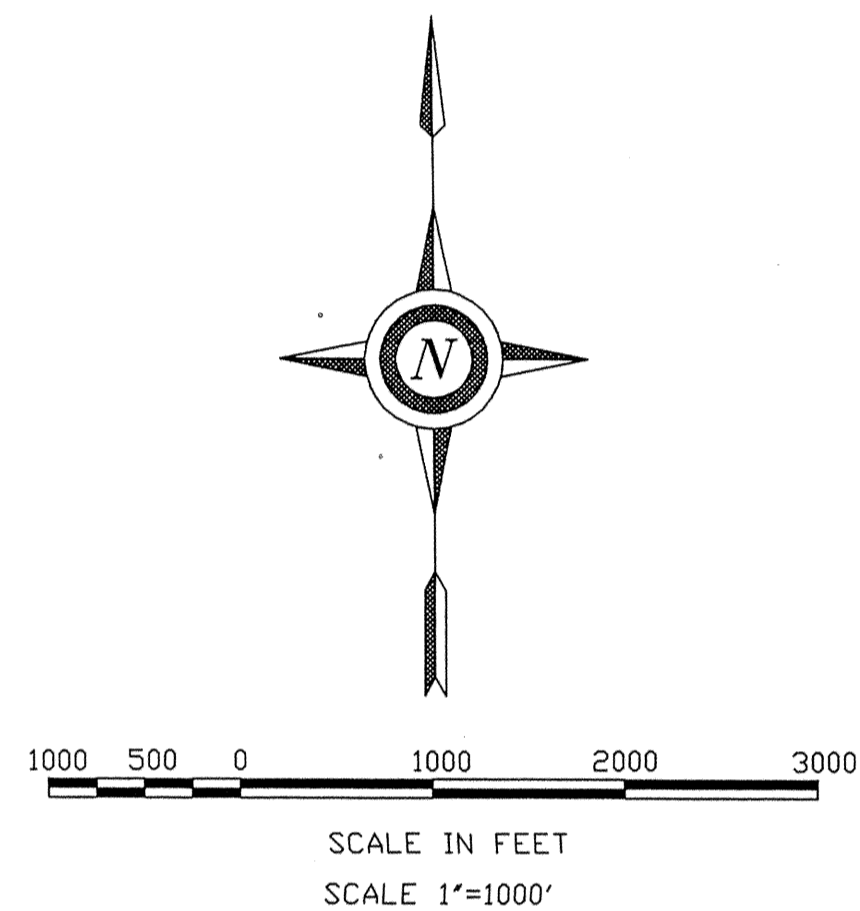
BM #12 CHISELED X ON CONCRETE HEADWALL ON THE NORTH SIDE OF PAUL BLAUSEY'S DRIVE AT STATION 105+36 MSL 578.01

BM #13 TOP OF 15" STEEL PIPE PUMP DISCHARGE, BEHIND FLOODGATE HINGE BRACKET, ON WEST SIDE OF SCHLUNZ DITCH ON JOHN WALKER PROPERTY APPROXIMATELY 1150' NORTH OF TOUSSAINT EAST ROAD MSL 575.16

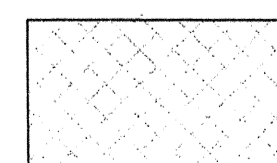
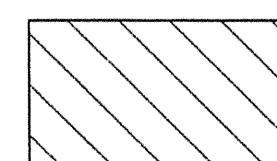
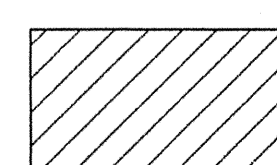
BM #14 CHISELED X ON TOP OF 36" RCP ON WEST SIDE OF SCHLUNZ DITCH STA 0+03 ON NORTH SIDE OF TOUSSAINT EAST ROAD MSL 574.06

BM #15 TOP OF WEST END OF 24" CMP ON WEST SIDE OF LEUTZ ROAD AT THE ROAD BEND AT STA 0+00 OF LEUTZ ROAD BRANCH DITCH MSL 574.52

BM #16 RR SPIKE IN WEST SIDE OF POLE ON EAST SIDE OF LEUTZ RD 100' SOUTH OF STA 0+00 OF LEUTZ ROAD BRANCH DITCH MSL 577.45



WATERSHED KEY

-  GOODSITE CHANNEL
-  SCHLUNZ BRANCH
-  LEUTZ RD BRANCH

SOILS

TOLEDO SILTY CLAY - THIS DEEP NEARLY LEVEL, VERY POORLY DRAINED SOIL IS ON BROAD FLATS AND IN LONG, NARROW CONCAVE AREAS ON LAKE PLAINS. IT IS SUBJECT TO PONDING OF SHORT DURATION. SLOPE IS 0 TO 2 PERCENT.

TOLEDO SILTY CLAY, PONDED - THIS DEEP, NEARLY LEVEL, SOMEWHAT POORLY DRAINED SOIL IS IN LONG, NARROW CONCAVE AREAS ALONG DRAINAGEWAYS AND ON BROAD FLATS ON LAKE PLAINS. IT IS SUBJECT TO PONDING OF LONG DURATION. SLOPE IS 0 TO 2 PERCENT.

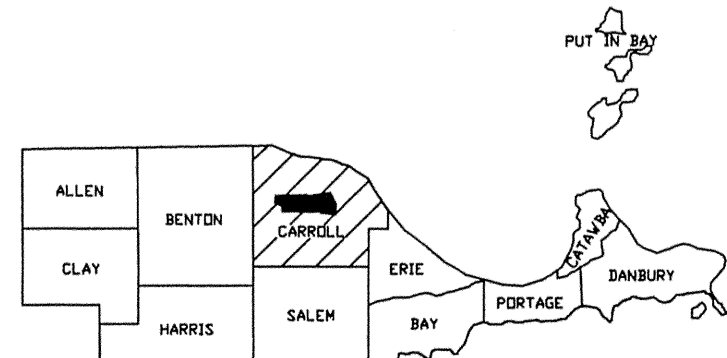
NAPPANEE SILTY CLAY LOAM - THIS DEEP, NEARLY LEVEL, SOMEWHAT POORLY DRAINED SOIL IS ON SLIGHT CONVEX RISES AND SIDE SLOPES ALONG DRAINAGEWAYS ON LAKE PLAINS. SLOPE IS 0 TO 3 PERCENT.

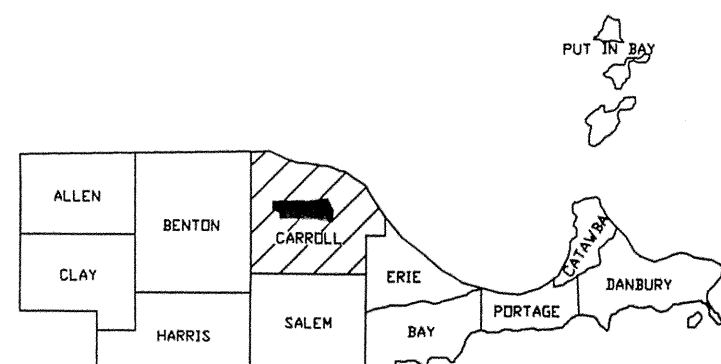
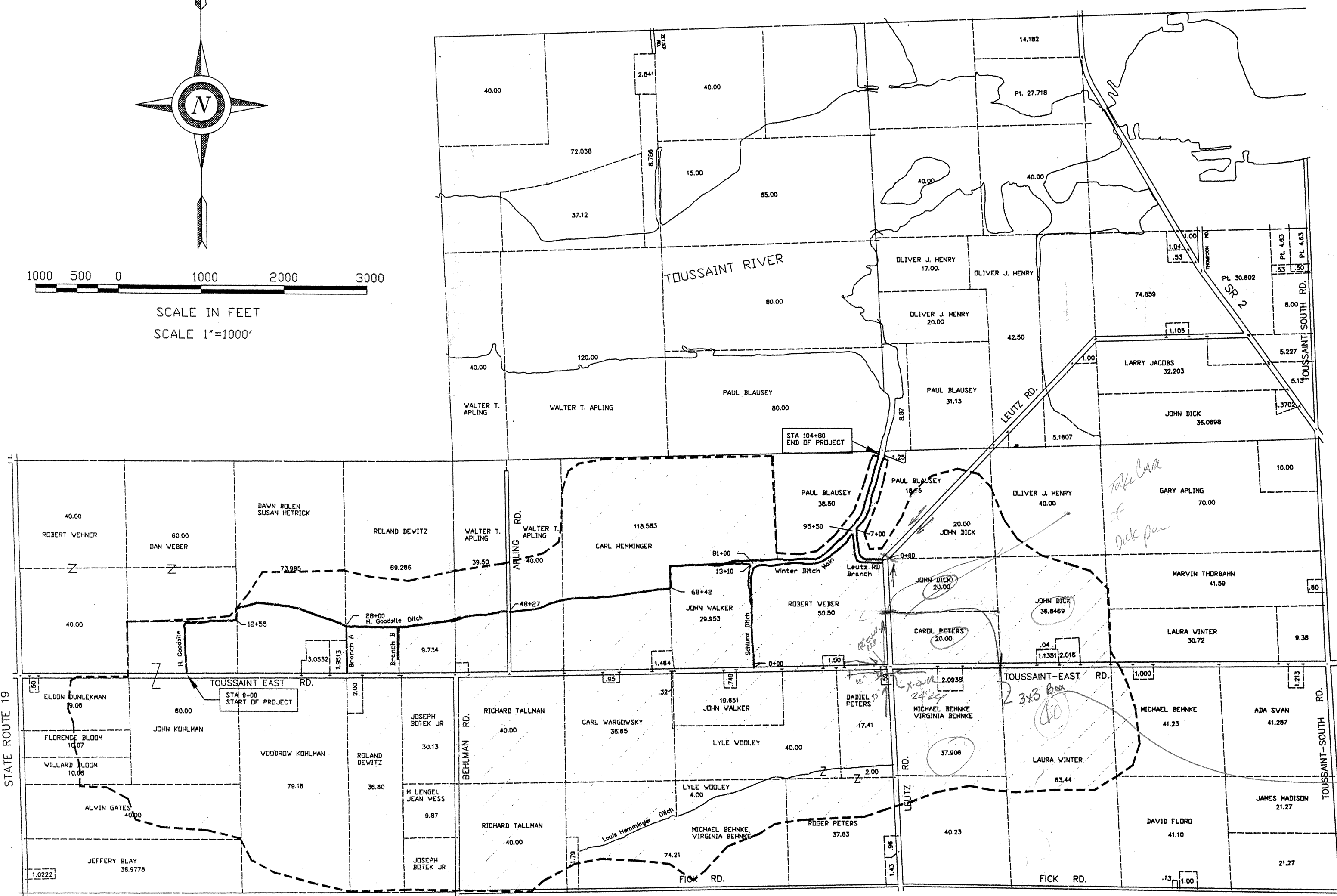
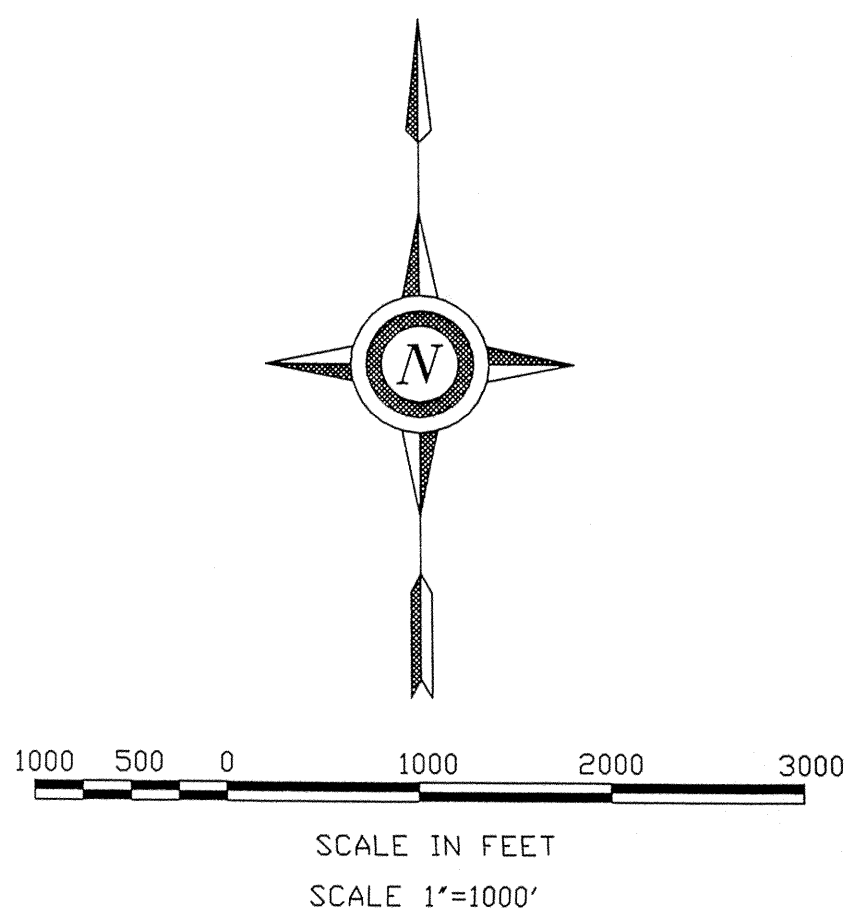
Job Class V

WINTER DITCH DRAINAGE IMPROVEMENT
CARROLL TOWNSHIP
SECTIONS 10, 11, 14, 15, 16
OTTAWA COUNTY OHIO

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Designed	MIKE GARGAC	Date	7/98	Approved by	_____
Drawn	MIKE GARGAC	Date	7/98	Const. Approval	_____
Redlined	_____	Sheet	No. 2	Drawing No.	_____
Checked	P.W. Chester	Date	4/99	of 12	39-01-383-99-02





LEGEND

- ROAD
- RAILROAD
- WATERSHED BOUNDARY
- PROPERTY LINE
- FENCE
- STATION
- EXISTING WATERWAY
- ACRES DRAINED

INDEX

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- SHEET 4.....PROFILE - GOODSITE, WINTER MAIN
- SHEET 5.....PROFILE - WINTER MAIN, BRANCHES
- SHEET 6, 7, 8.....CROSS-SECTIONS - GOODSITE, WINTER MAIN
- SHEET 9, 10.....CROSS-SECTIONS - BRANCHES
- SHEET 11.....PUMP DETAILS
- SHEET 12.....TYPICAL DRAWINGS - OUTLET PIPE, CULVERT RIP RAP, BRUSH, SPDIL, SEEDING

DESIGNER NOTIFICATION TO O.U.P.S. (1-800-362-2764)					
By: MIKE GARGAC		Date: 3-8-99		I.D. No. 308050066, 67, 68, 69	
UTILITY			OUPS MEMBERSHIP		RESPONSE
NAME	ADDRESS	PHONE No.	FULL	LIMITED BASIS	
GTE			X		
TOLEDD EDISON			X		
CARROLL WATER			X		WEST SIDE APLING ROAD
FRONTIER CABLE		18003462288		X	
OTTAWA CO ENG				X	
LOCATION		REFERENCE ID NO			
0+00 - 104+80		308050066			
BRANCH A		308050067			
SCHLUNZ BRANCH		308050068			
LEUTZ RD BRANCH		308050069			

Note 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 oups (1-800-362-2764)
- Each Limited Basis Participant will be contacted by the excavator using the telephone number provided.

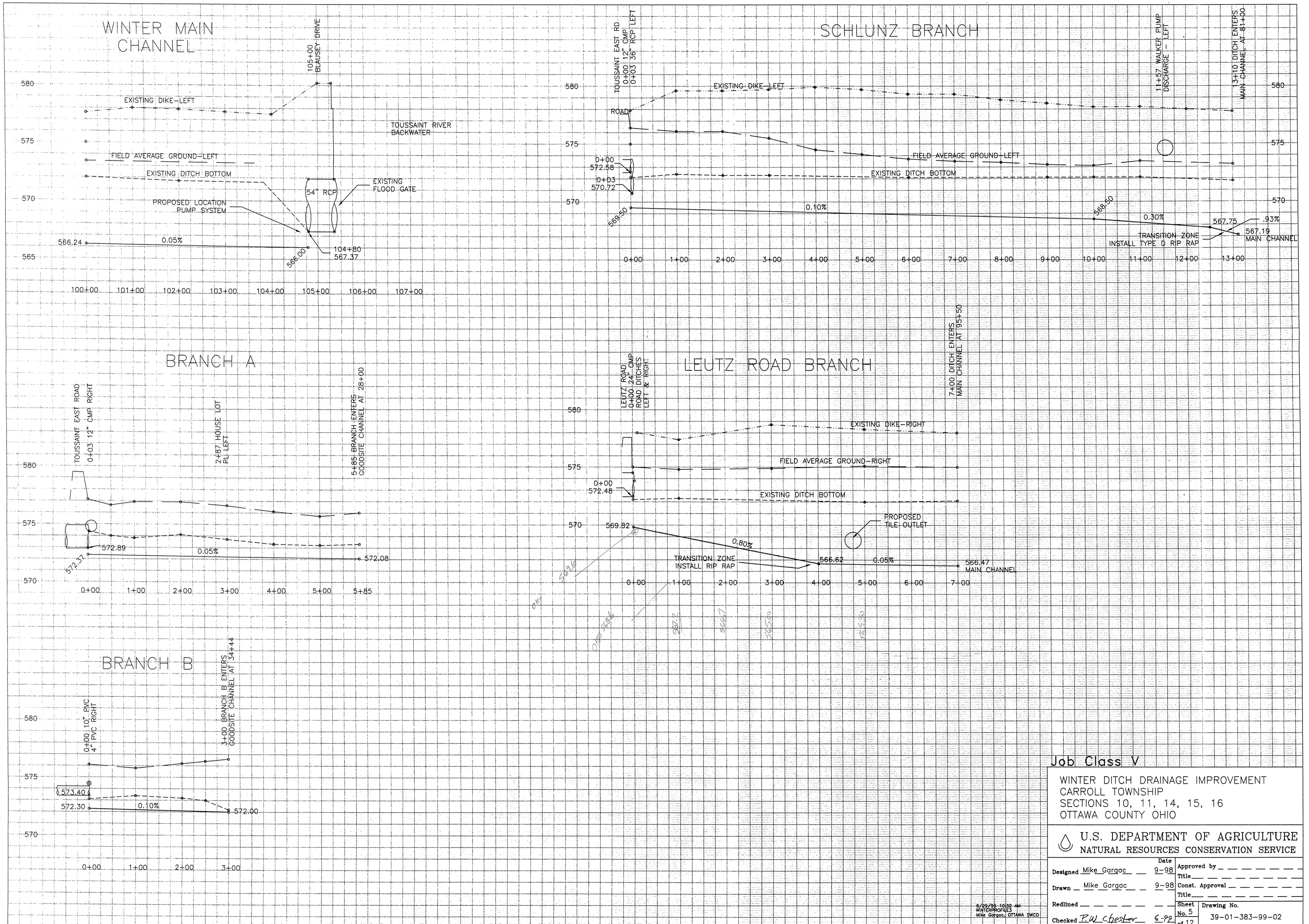
2 WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

*571.89 N-End
571.95 S-End*

Robert Stumler 5/10/99
OTTAWA COUNTY ENGINEER DATE

Job Class V
WINTER DITCH DRAINAGE IMPROVEMENT
CARROLL TOWNSHIP
SECTIONS 10, 11, 14, 15, 16
OTTAWA COUNTY OHIO

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE			
Designed	MIKE GARGAC	Date	7/28
Drawn	MIKE GARGAC	Date	7/28
Redlined		Date	
Checked	<i>R.W. Chester</i>	Date	4/99
Approved by	<i>R.W. Chester</i>	Title	Area Engineer, April 12, 1999
Const. Approval		Title	
Sheet No.	1	Drawing No.	39-01-383-99-02
of 12			



Job Class V

WINTER DITCH DRAINAGE IMPROVEMENT
 CARROLL TOWNSHIP
 SECTIONS 10, 11, 14, 15, 16
 OTTAWA COUNTY OHIO

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

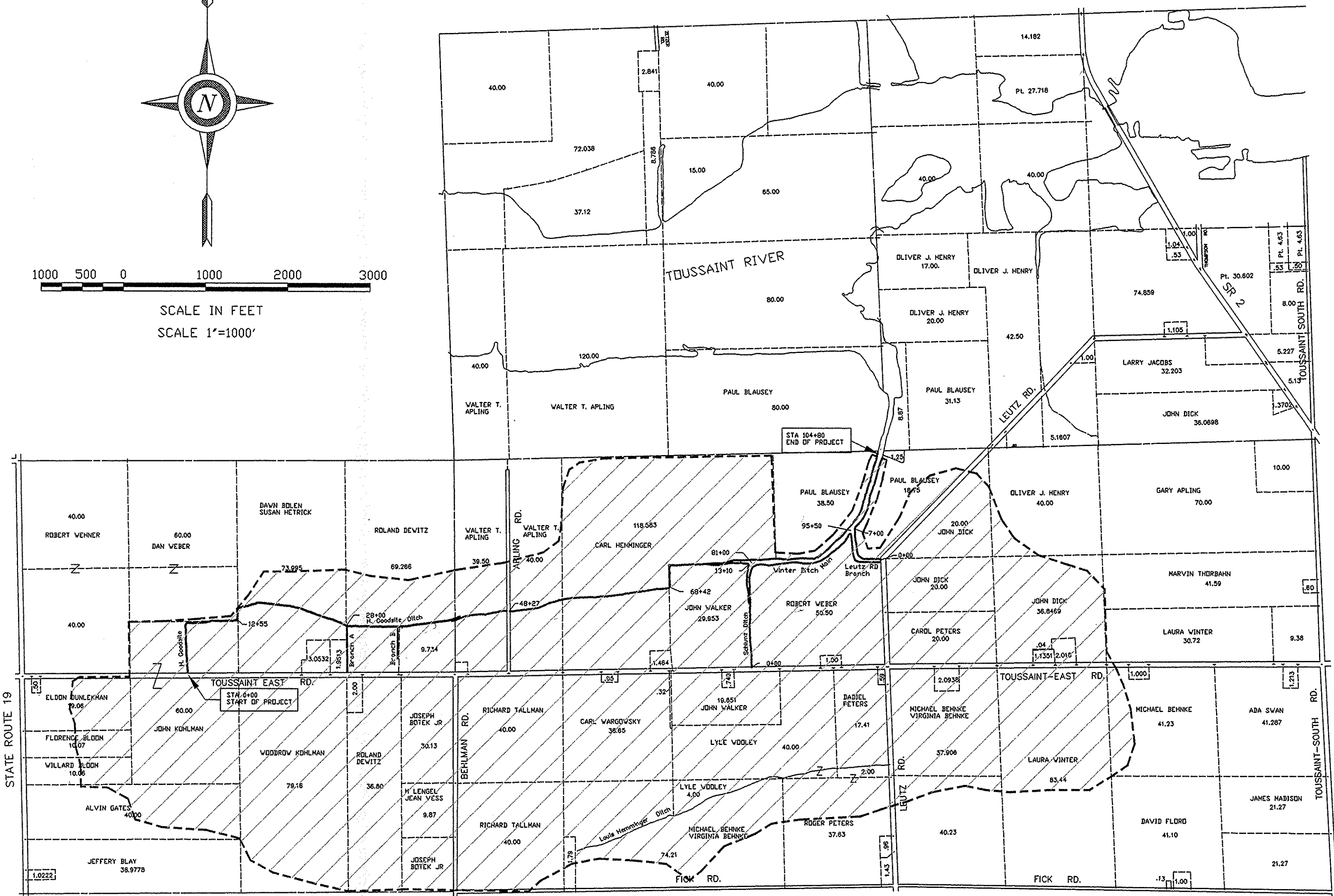
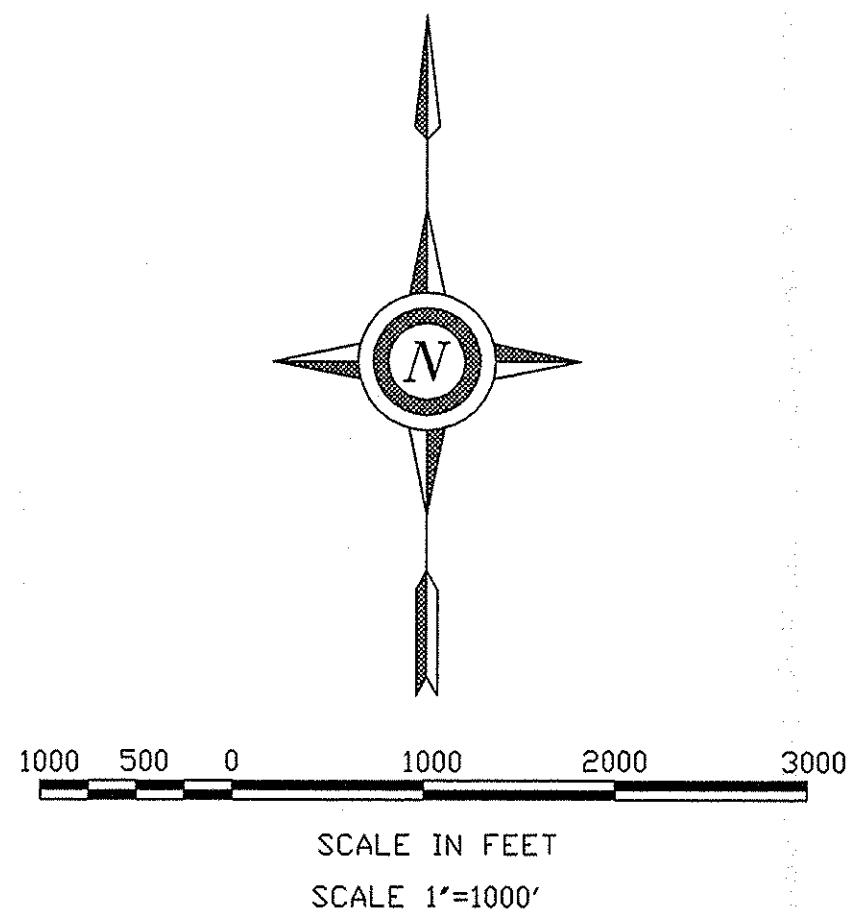
Designed <u>Mike Gargac</u>	Date <u>9-98</u>	Approved by _____
Drawn <u>Mike Gargac</u>	Date <u>9-98</u>	Const. Approval _____
Redlined _____	Sheet <u>No. 5</u>	Drawing No. _____
Checked <u>P.W. Chestner</u>	6-92	39-01-383-99-02

of 12

5/29/99 10:32 AM
 WINTERPROFILES
 Mike Gargac, OTTAWA, OHIO

DESIGNER NOTIFICATION TO D.U.P.S.
(1-800-362-2764)

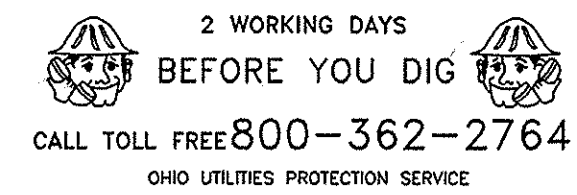
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UTILITY		DUPS MEMBERSHIP			
NAME	ADDRESS	PHONE No.	FULL	LIMITED BASIS	RESPONSE
GTE			X		
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CARROLL WATER			X		WEST SIDE APLING ROAD
FRONTIER CABLE		18003462288		X	
OTTAWA CO ENG				X	
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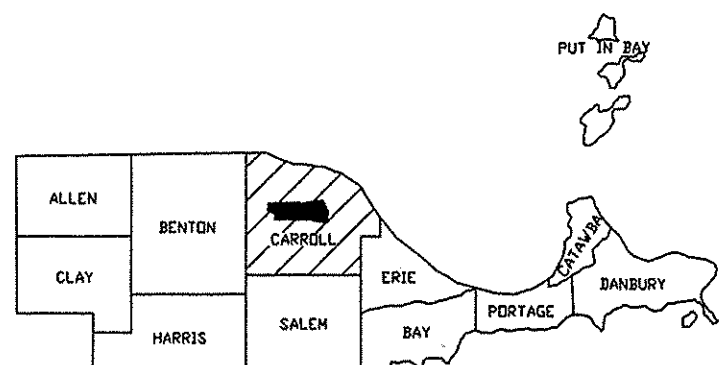
Robert Stumler 5/10/99
OTTAWA COUNTY ENGINEER DATE

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WINTER DITCH DRAINAGE IMPROVEMENT
CARROLL TOWNSHIP
SECTIONS 10, 11, 14, 15, 16
OTTAWA COUNTY OHIO

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Designed MIKE GARGAC	Date 7/98	Approved by <i>Robert Stumler</i>	Title Area Engineer, April 12, 1999
Drawn MIKE GARGAC	Date 7/98	Const. Approval	Title
Redlined	Sheet No. 1	Drawing No. 39-01-383-99-02	
Checked <i>P.W. Chester</i>	Date 4/99	of 12	

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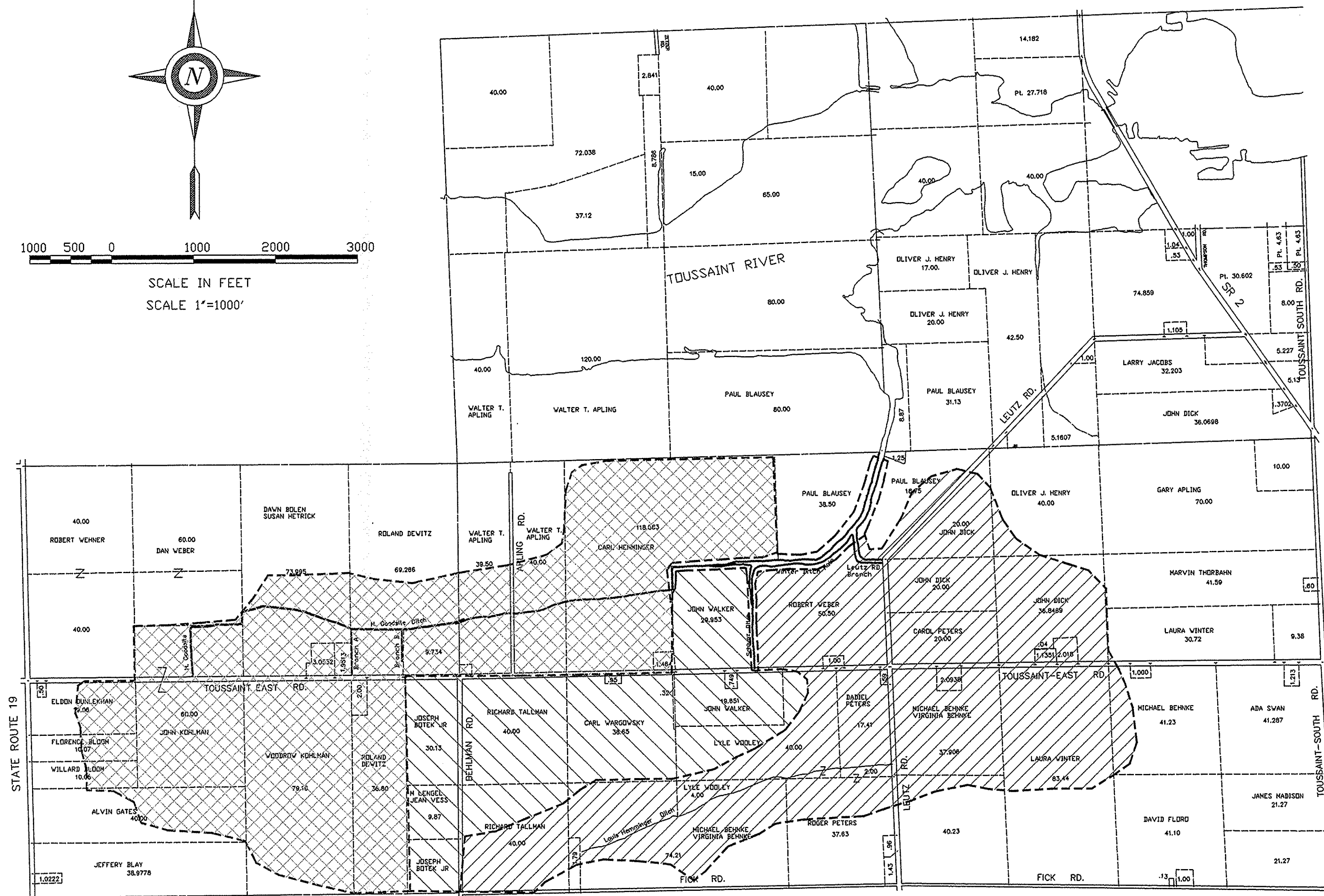
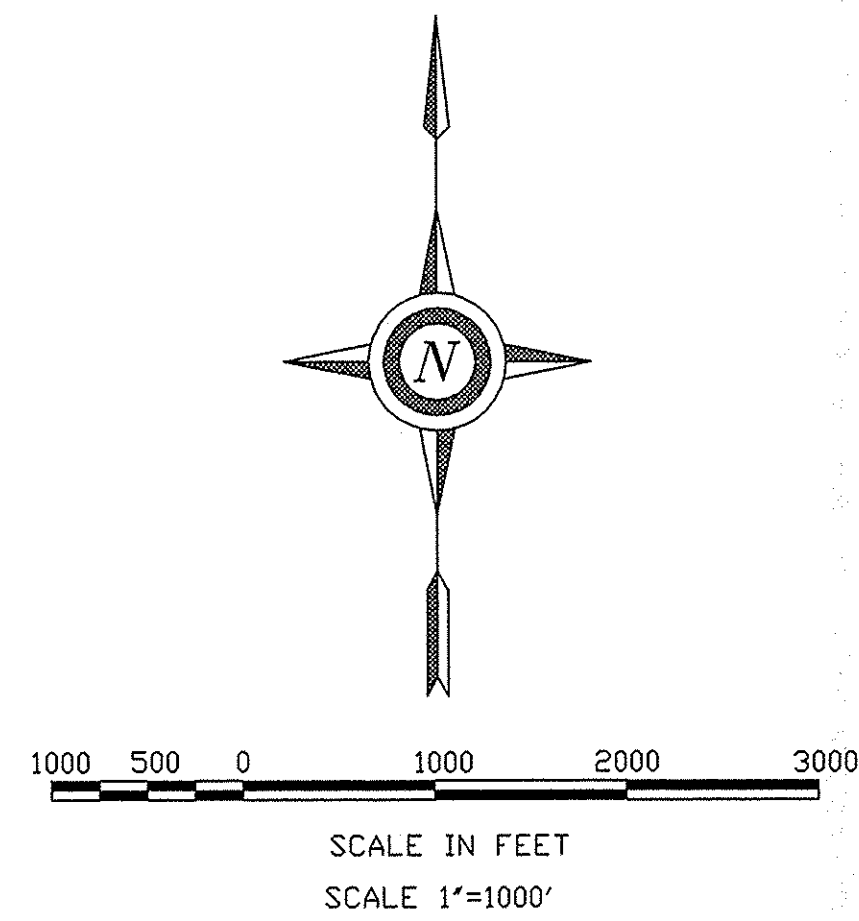
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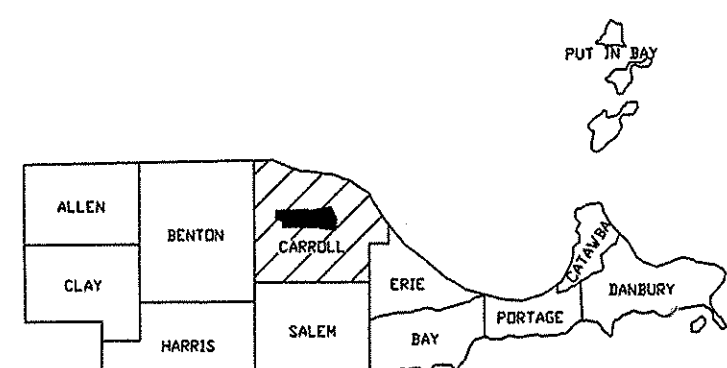
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Job Class V

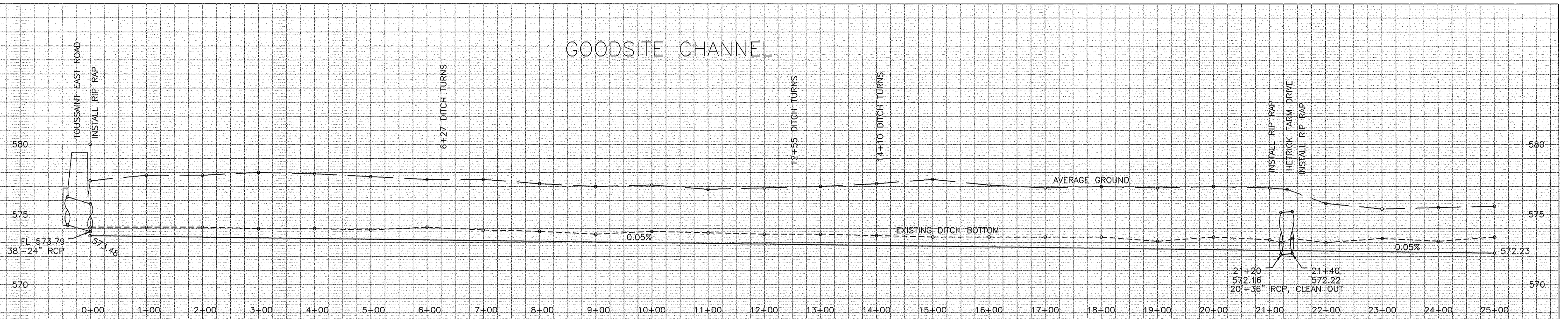
WINTER DITCH DRAINAGE IMPROVEMENT
CARROLL TOWNSHIP
SECTIONS 10, 11, 14, 15, 16
OTTAWA COUNTY OHIO

 U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

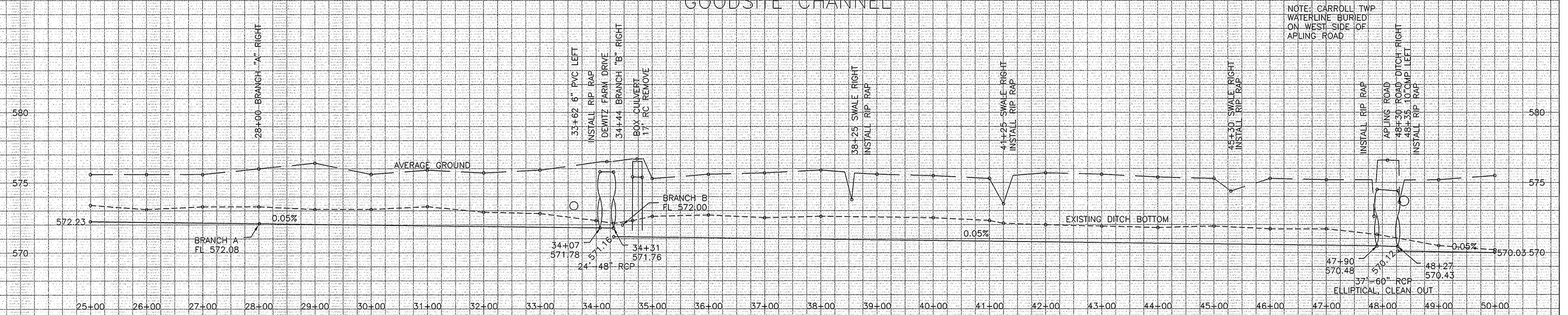
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Drawn	MIKE GARGAC	Title	7/98	Const. Approval	_____
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Checked	P.W. Chester	No.	4/99	of 12	39-01-383-99-02



GOODSITE CHANNEL



GOODSITE CHANNEL

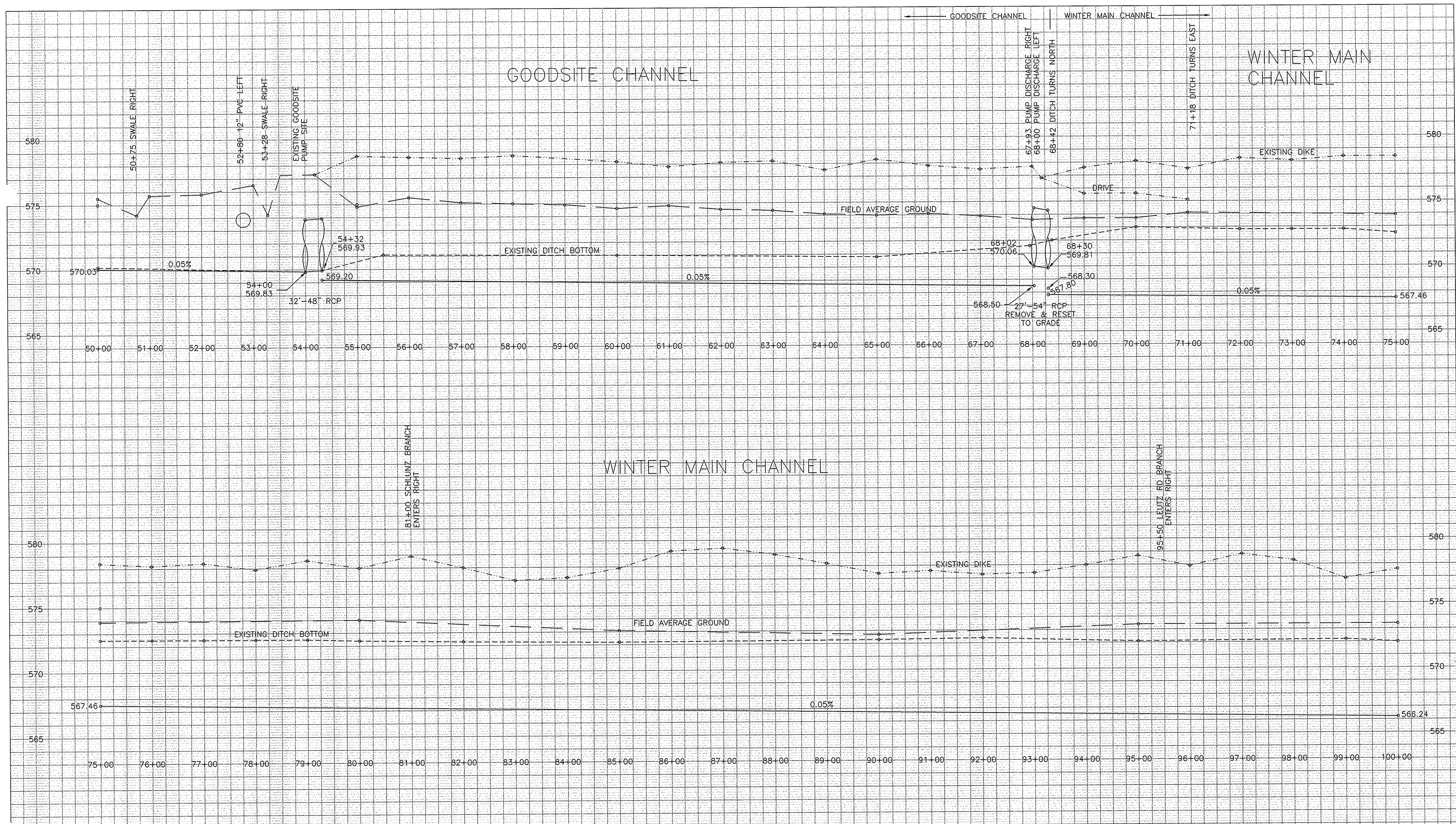


WINTER DITCH DRAINAGE IMPROVEMENT
 CARROLL TOWNSHIP
 SECTIONS 10, 11, 14, 15, 16
 OTTAWA COUNTY OHIO

U.S. DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCES CONSERVATION SERVICE

Designed <u>MIKE GARGAC</u>	Date <u>2-98</u>	Approved by _____
Drawn <u>MIKE GARGAC</u>	Date <u>2-98</u>	Title _____
Redlined _____	Const. Approval _____	Title _____
Checked <u>R.W. Chester</u>	Date <u>4/99</u>	Sheet No. <u>3</u> of 12
		Drawing No. <u>39-01-383-99-02</u>

4/2/99 10:50 AM
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 Mike Gargac, OTTAWA SWED.

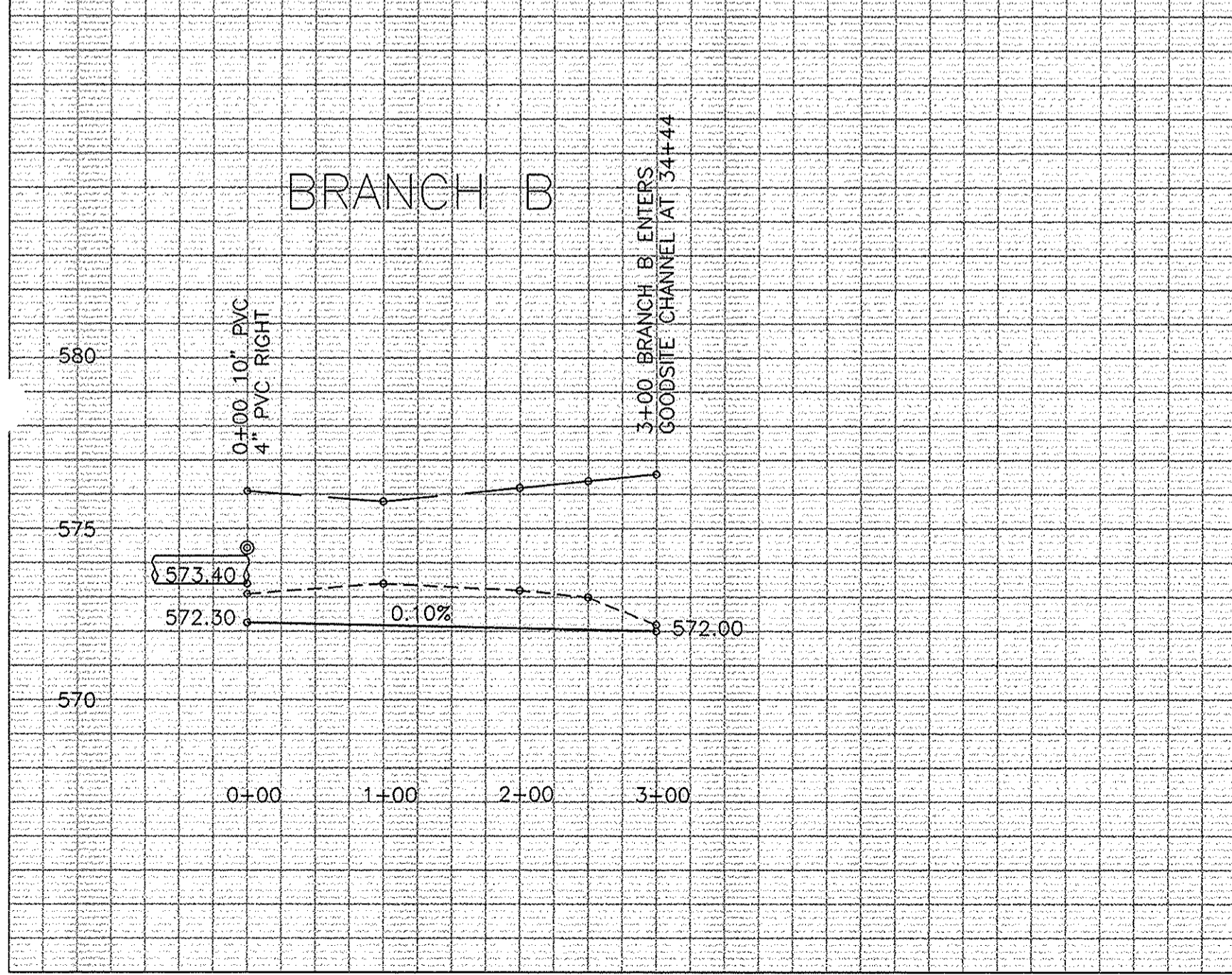
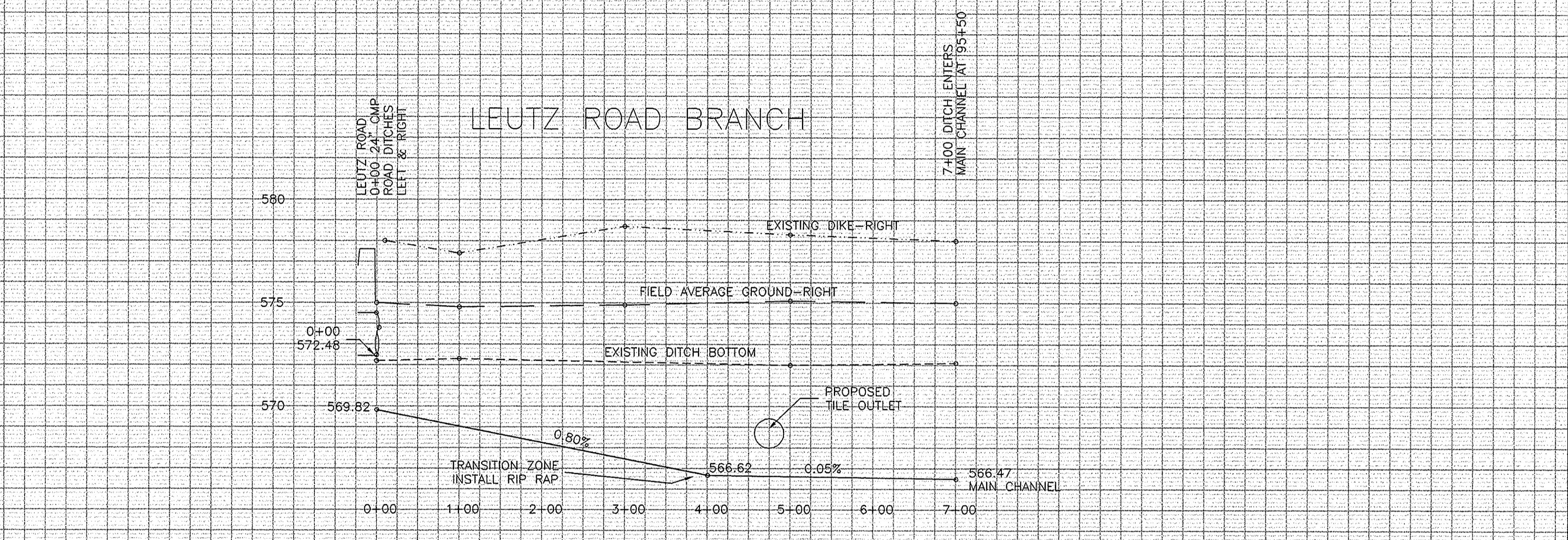
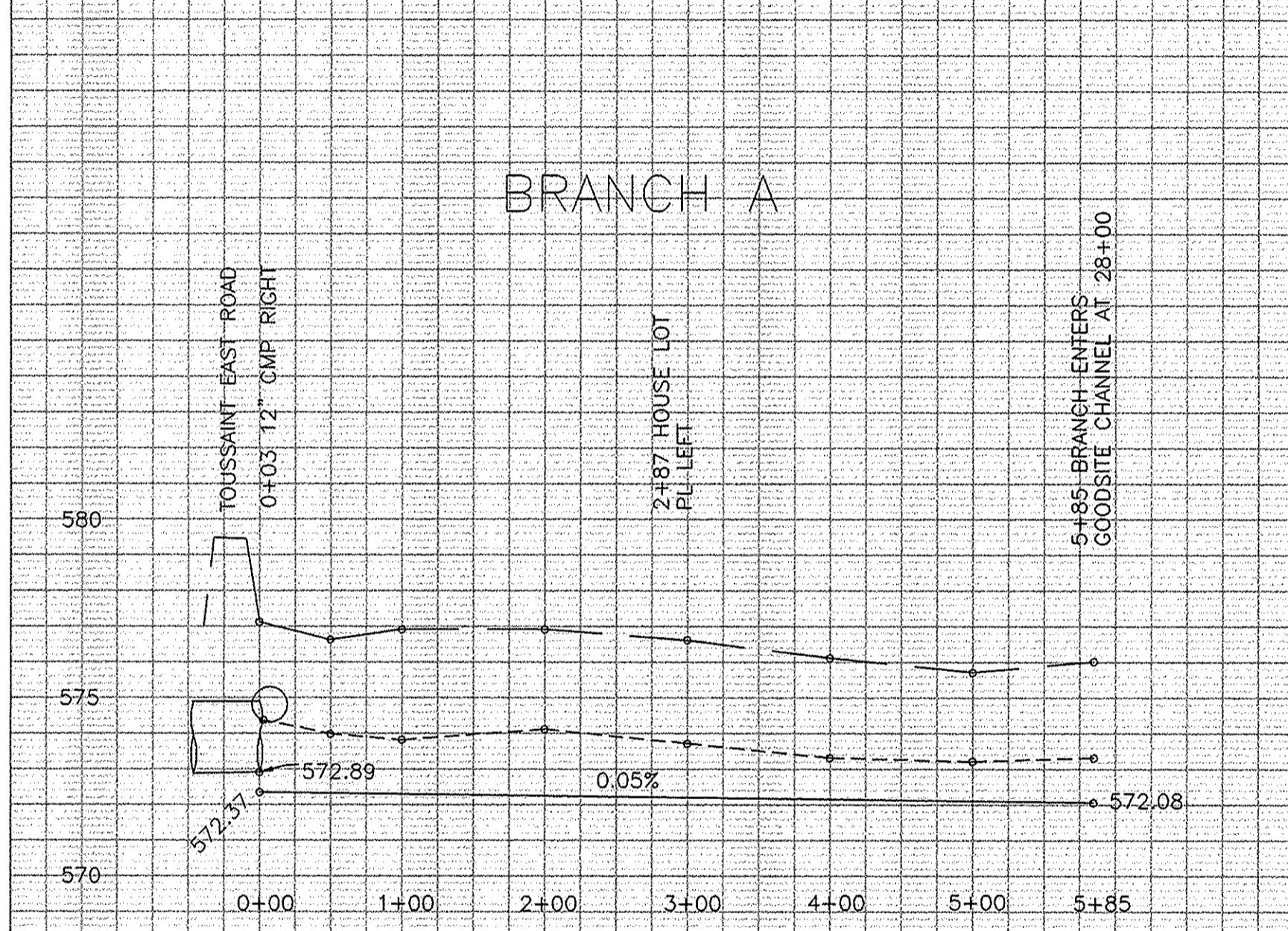
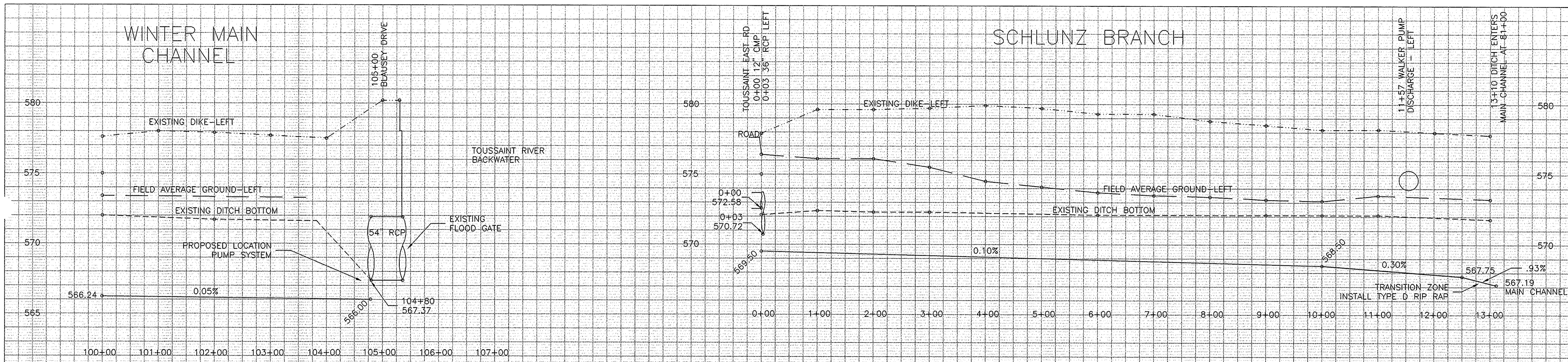


Job Class V
 WINTER DITCH DRAINAGE IMPROVEMENT
 CARROLL TOWNSHIP
 SECTIONS 10, 11, 14, 15, 16
 OTTAWA COUNTY OHIO

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 NATURAL RESOURCES CONSERVATION SERVICE

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Drawn	MIKE GARGAC	Date	9-98	Const. Approval	_____
Redlined	_____	Sheet	4	Drawing No.	39-01-383-99-02
Checked	P.W. Chester	Date	6-99	of 12	

4/2/98 11:28 AM
 Mike Gargac - OTTAWA SWCO



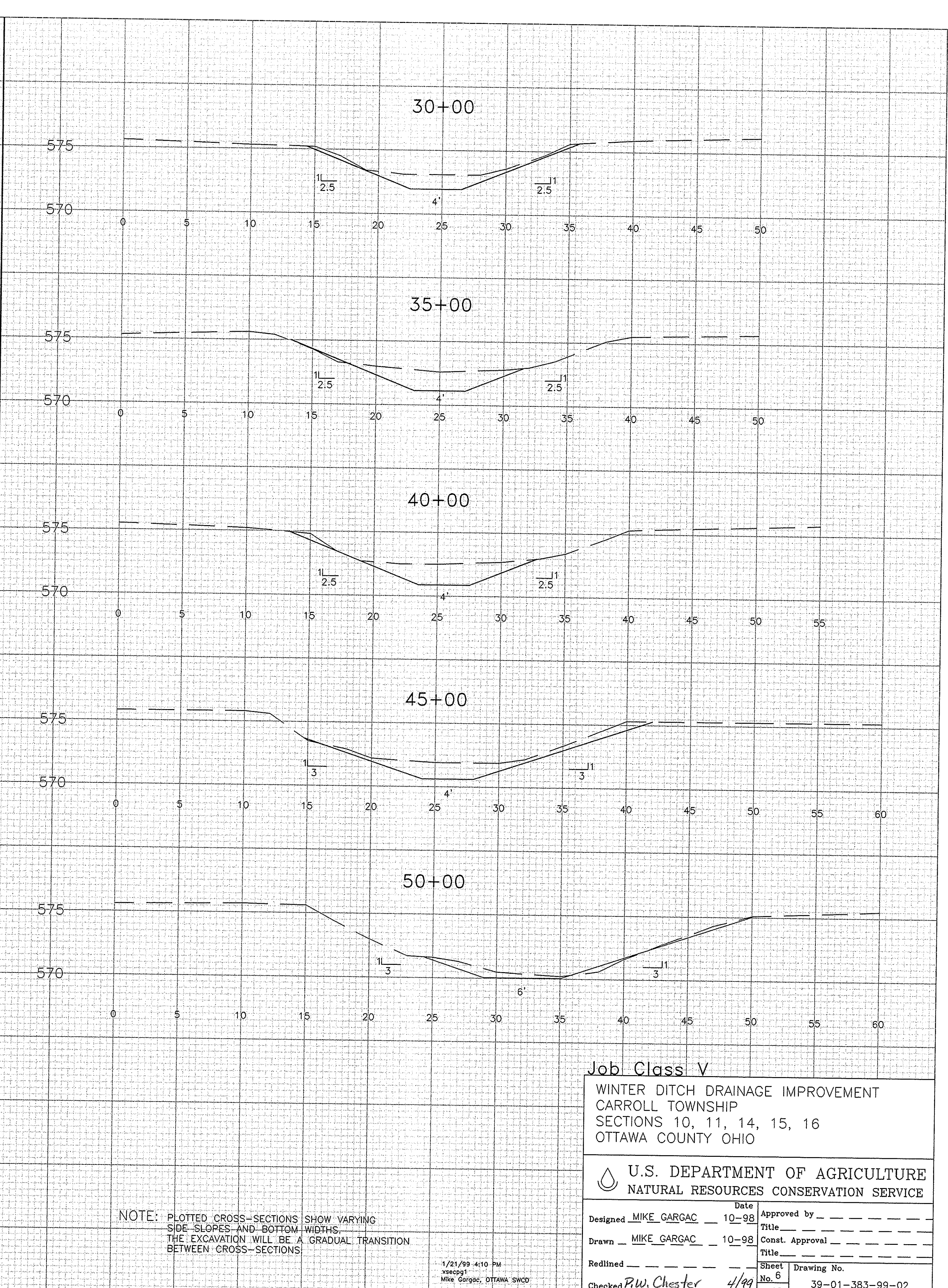
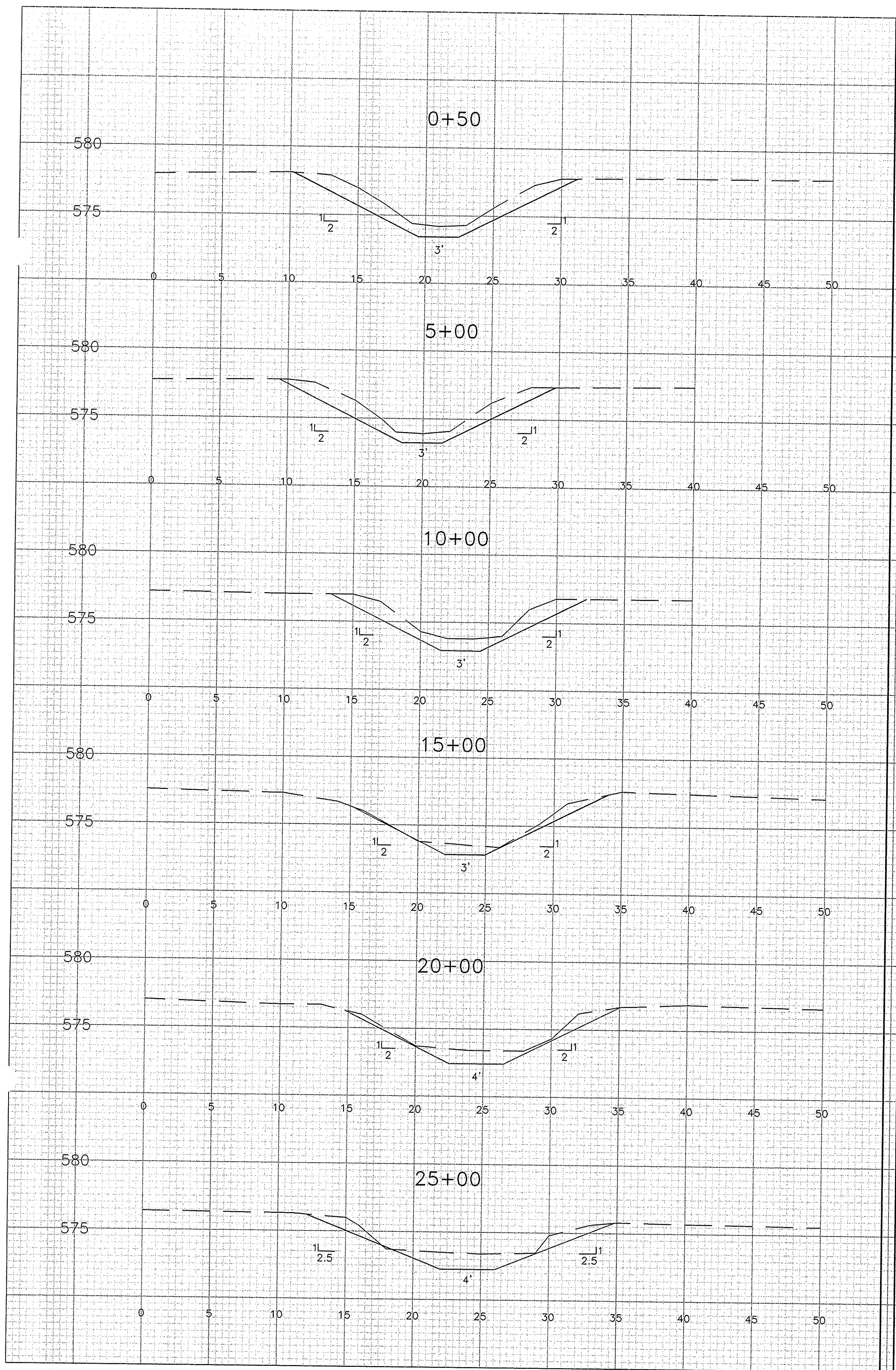
Job Class V

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 CARROLL TOWNSHIP
 SECTIONS 10, 11, 14, 15, 16
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U.S. DEPARTMENT OF AGRICULTURE
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Designed <u>Mike Gargac</u>	Date <u>9-98</u>	Approved by _____
Drawn <u>Mike Gargac</u>	Title _____	Const. Approval _____
Redlined _____	Title _____	Drawing No. _____
Checked <u>RW Chester</u>	Sheet <u>5</u> of 12	No. <u>39-01-383-99-02</u>

6/29/98-10:32 AM
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 Mike Gargac, OTTAWA SWCD



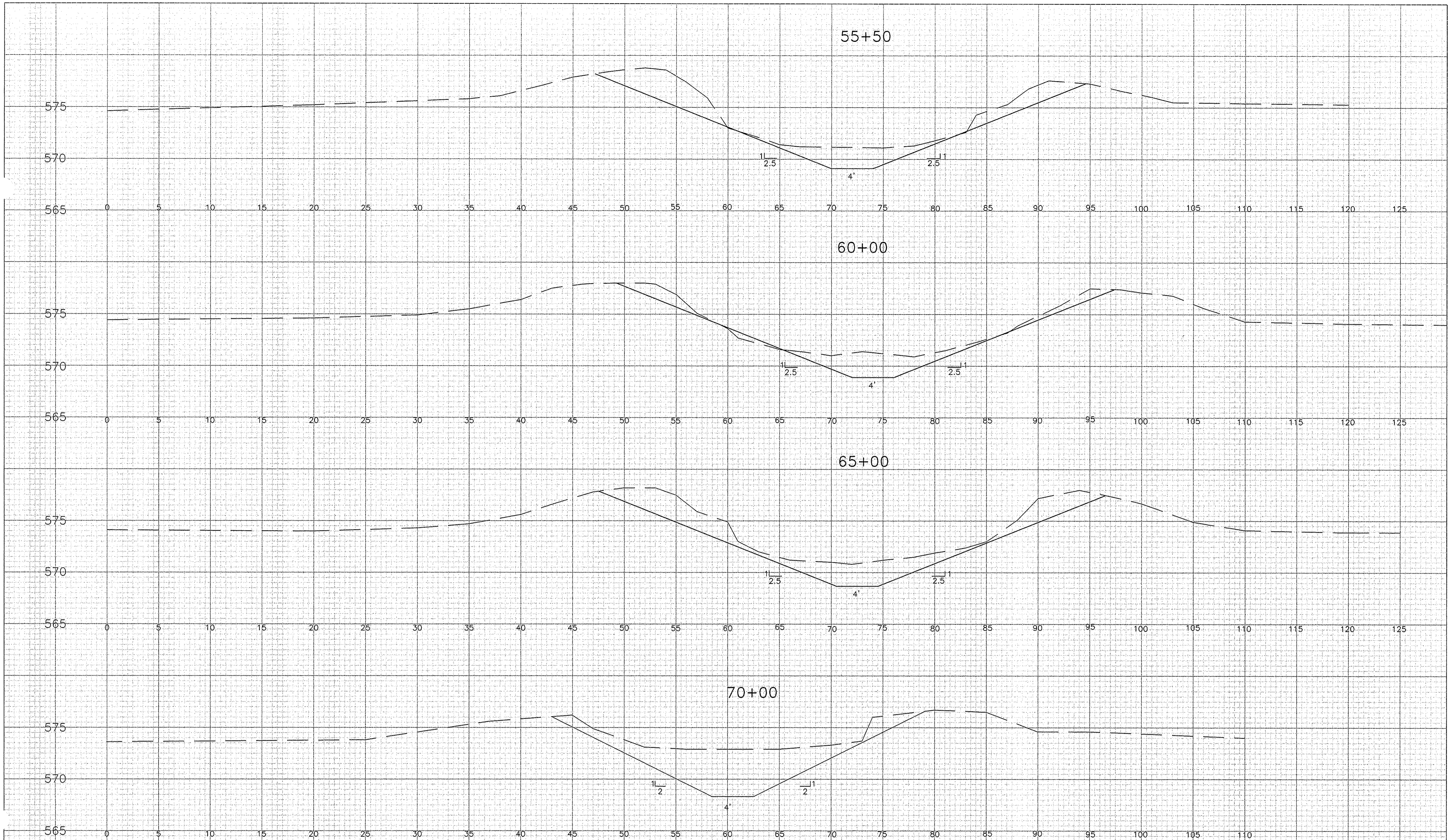
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xsecpg1
Mike Gargac, OTTAWA SWCD

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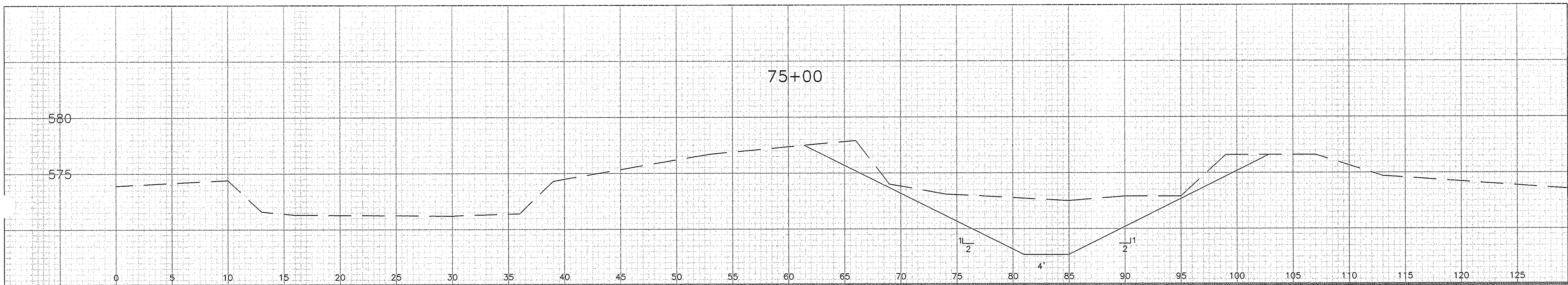
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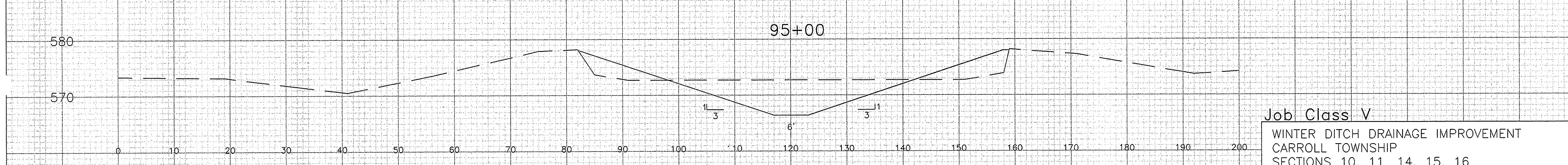
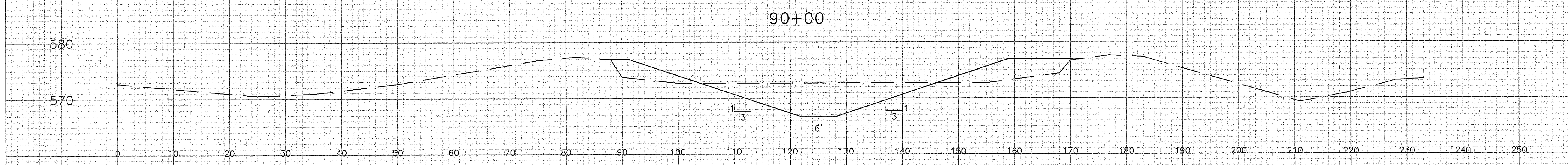
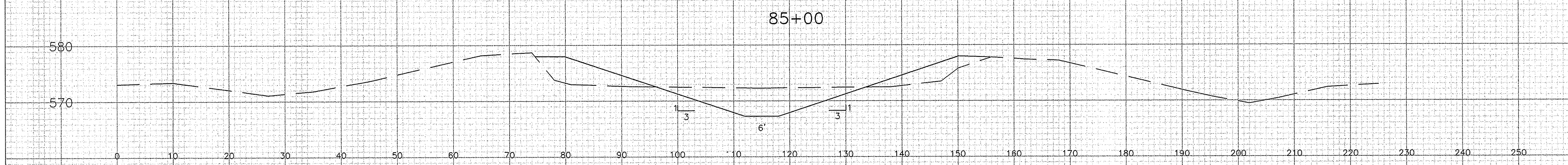
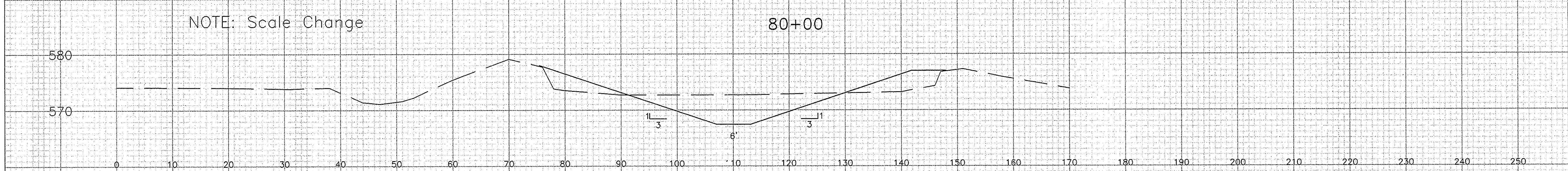
Job Class V
 WINTER DITCH DRAINAGE IMPROVEMENT
 CARROLL TOWNSHIP
 SECTIONS 10, 11, 14, 15, 16
 OTTAWA COUNTY OHIO

U.S. DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCES CONSERVATION SERVICE

Designed	MIKE GARGAC	Date	10-98	Approved by	_____
Drawn	MIKE GARGAC	Date	10-98	Title	_____
Redlined	_____	Date	_____	Const. Approval	_____
Checked	Z.W. Chester	Date	6-99	Title	_____
		Sheet	No. 7	Drawing No.	39-01-383-99-02
		of	12		



NOTE: Scale Change

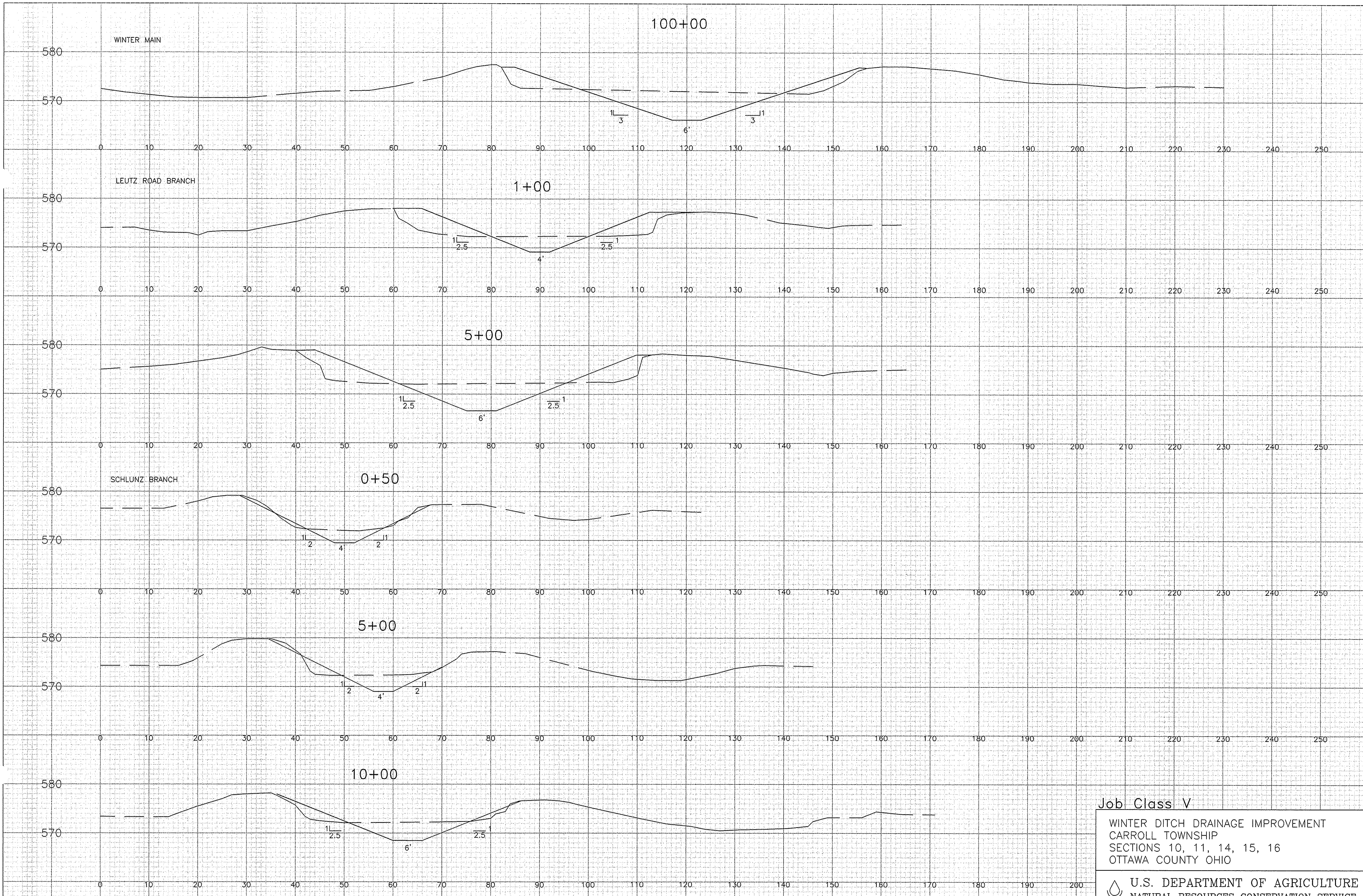


Job Class V
 WINTER DITCH DRAINAGE IMPROVEMENT
 CARROLL TOWNSHIP
 SECTIONS 10, 11, 14, 15, 16
 OTTAWA COUNTY OHIO

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE		Date	10-98	Approved by	_____
		Designed	MIKE GARGAC	Title	_____
		Drawn	MIKE GARGAC	Const. Approval	_____
		Redlined	_____	Title	_____
		Checked	P.W. Chester	Sheet No. 8	Drawing No. 39-01-383-99-02
				of 12	

NOTE: PLOTTED CROSS-SECTIONS SHOW VARYING
 SIDE SLOPES AND BOTTOM WIDTHS.
 THE EXCAVATION WILL BE A GRADUAL TRANSITION
 BETWEEN CROSS-SECTIONS.

3/8/99 11:03 AM
 vsmcpg4
 Mike Gargac, OTTAWA SWCD



NOTE: PLOTTED CROSS-SECTIONS SHOW VARYING SIDE SLOPES AND BOTTOM WIDTHS. THE EXCAVATION WILL BE A GRADUAL TRANSITION BETWEEN CROSS-SECTIONS.

Job Class V

WINTER DITCH DRAINAGE IMPROVEMENT
 CARROLL TOWNSHIP
 SECTIONS 10, 11, 14, 15, 16
 OTTAWA COUNTY OHIO

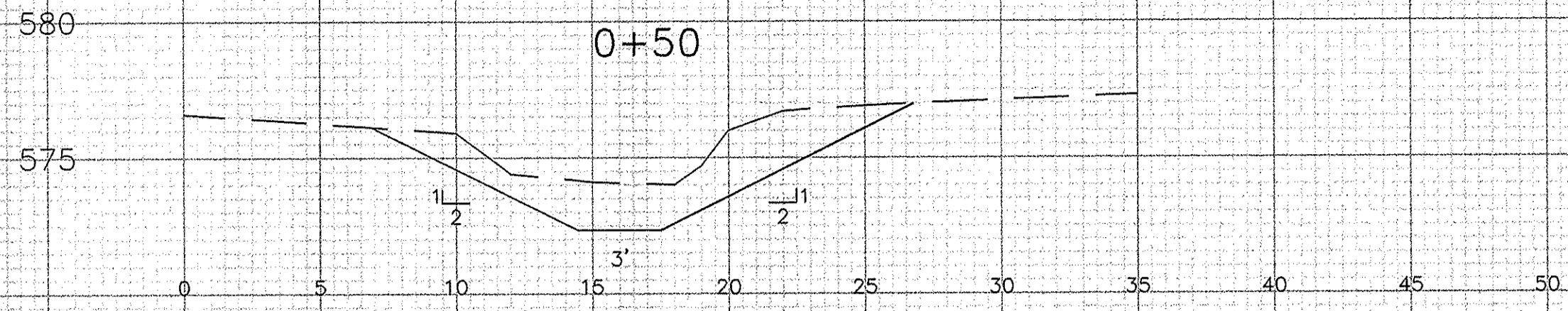
U.S. DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCES CONSERVATION SERVICE

Designed <u>Mike Gargac</u>	Date <u>2-99</u>	Approved by _____
Drawn <u>Mike Gargac</u>	Date <u>2-99</u>	Title _____
Redlined _____	Sheet _____	Drawing No. _____
Checked <u>P.W. Chester</u>	Date <u>6-99</u>	No. <u>9</u> of 12

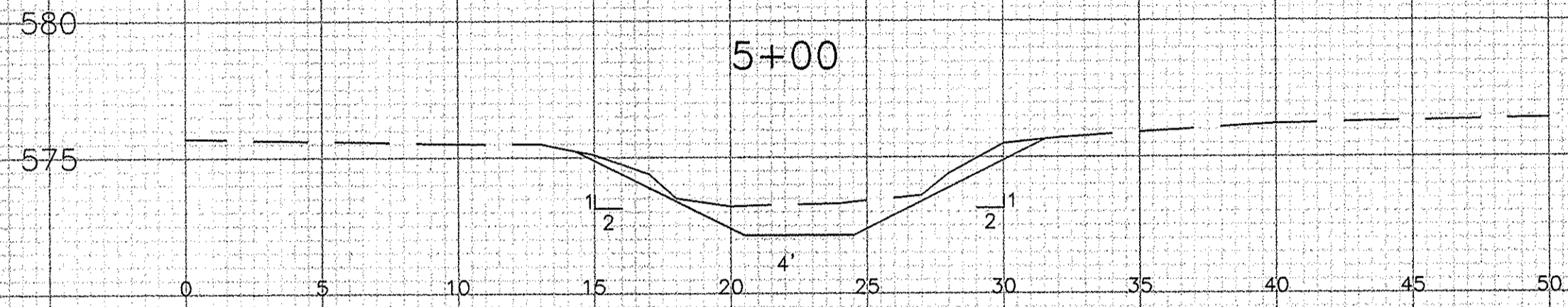
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 Mike Gargac, OTTAWA SWCD

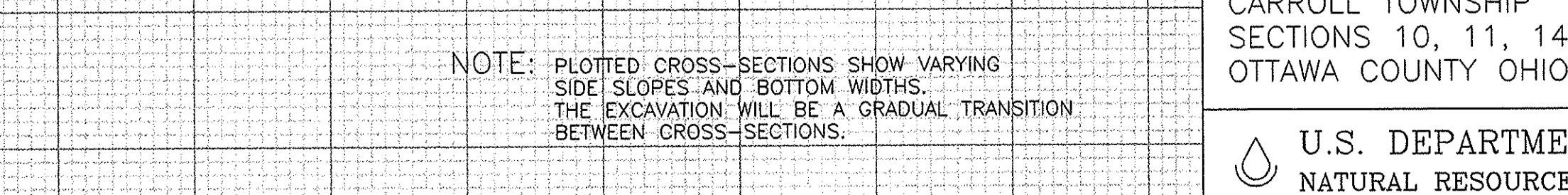
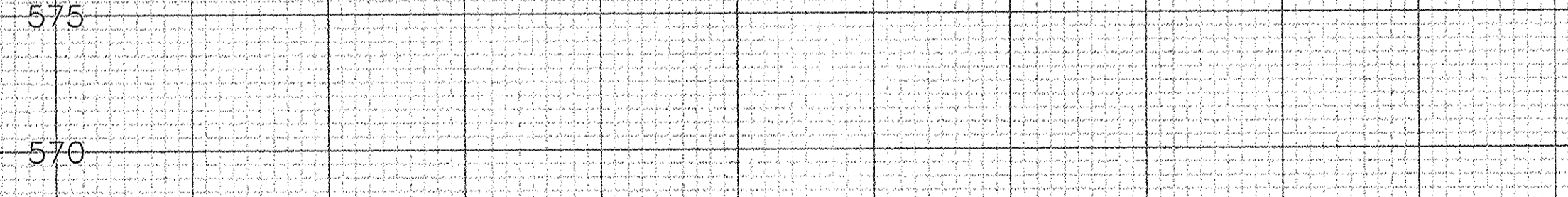
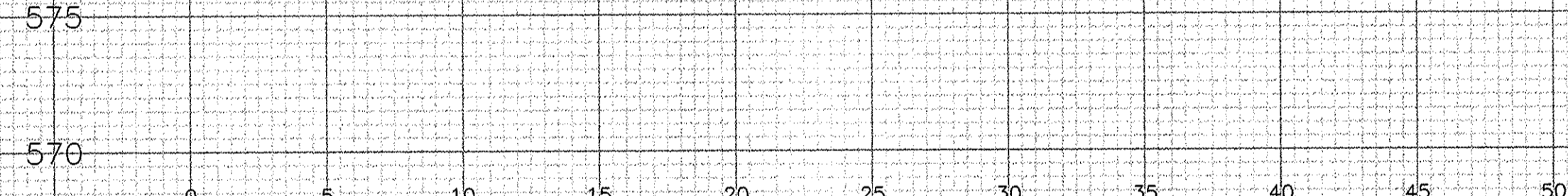
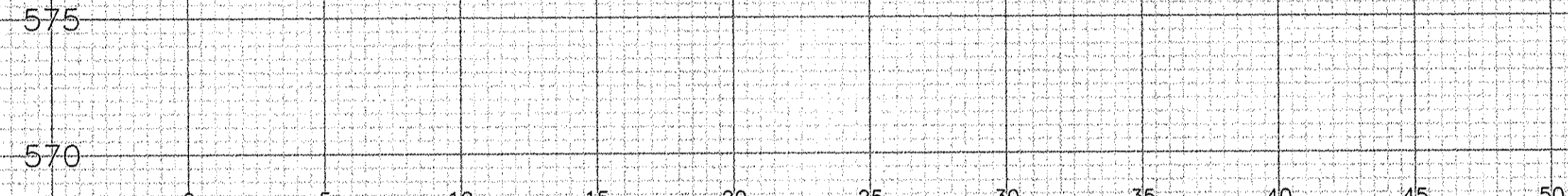
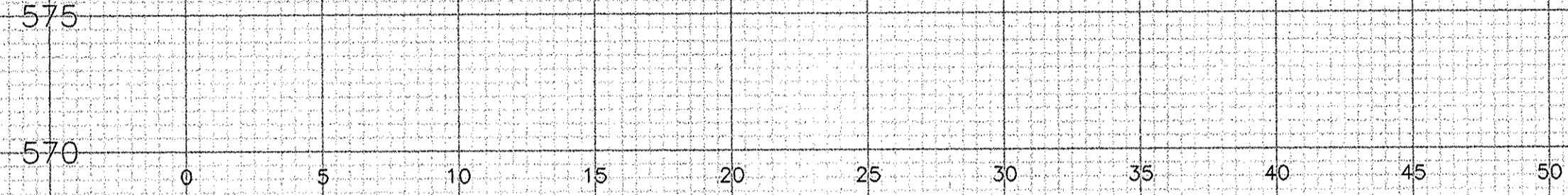
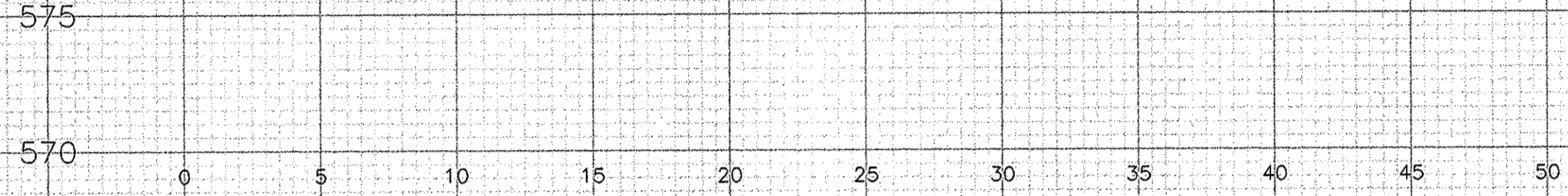
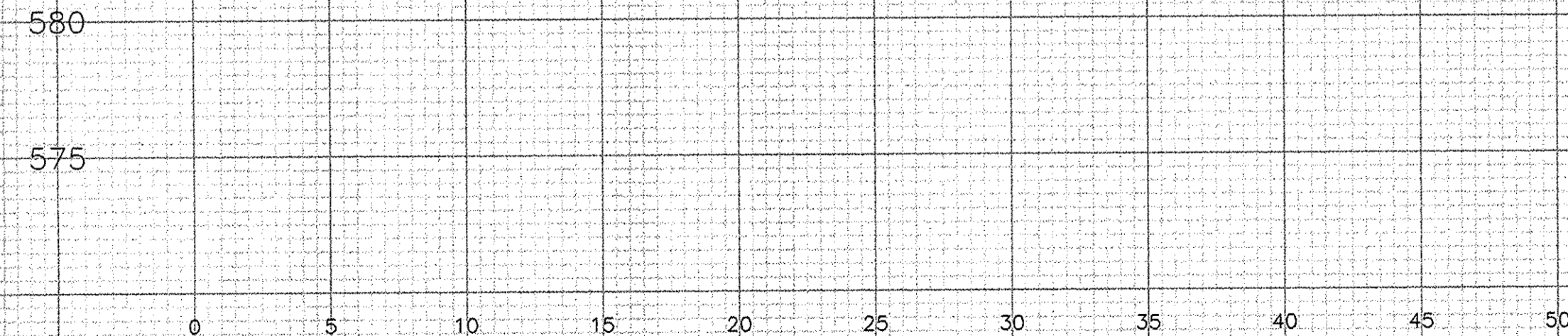
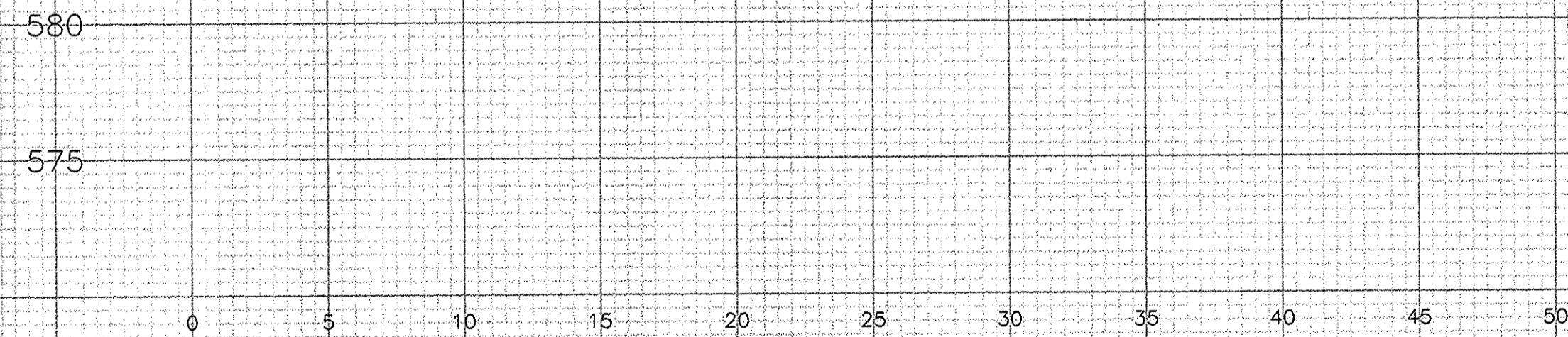
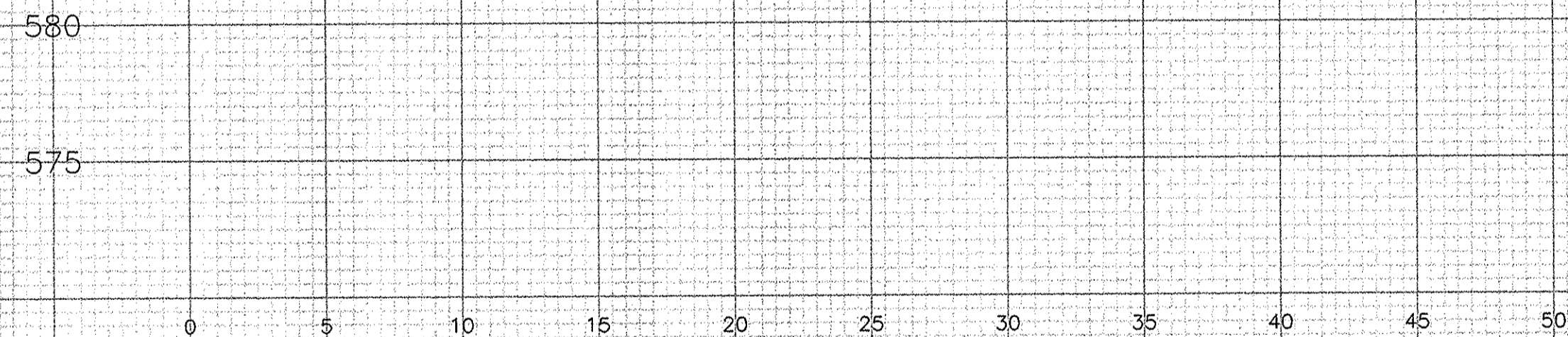
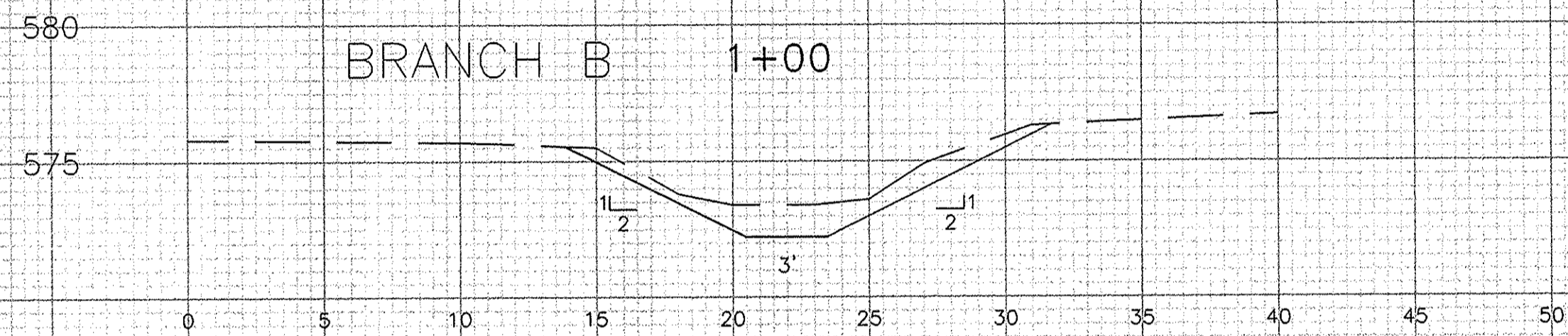
BRANCH A



5+00



BRANCH B 1+00



NOTE: PLOTTED CROSS-SECTIONS SHOW VARYING SIDE SLOPES AND BOTTOM WIDTHS. THE EXCAVATION WILL BE A GRADUAL TRANSITION BETWEEN CROSS-SECTIONS.

Job Class V
 WINTER DITCH DRAINAGE IMPROVEMENT
 CARROLL TOWNSHIP
 SECTIONS 10, 11, 14, 15, 16
 OTTAWA COUNTY OHIO

U.S. DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCES CONSERVATION SERVICE

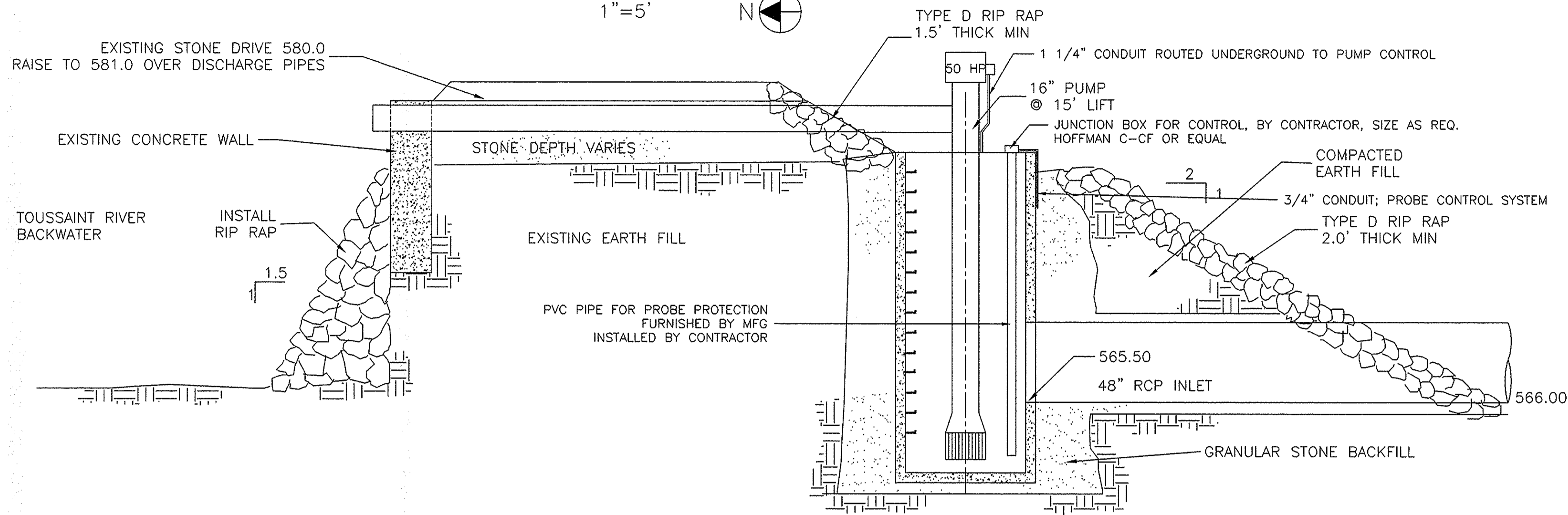
Designed	MIKE GARGAC	Date	10-98	Approved by	_____
Drawn	MIKE GARGAC	Title	10-98	Const. Approval	_____
Redlined	_____	Sheet	_____	Drawing No.	_____
Checked	Rw. Chester	No.	10		
		of	12		

2/17/99 9:50 AM
 xscp02
 Mike Gargac, OTTAWA SWCD

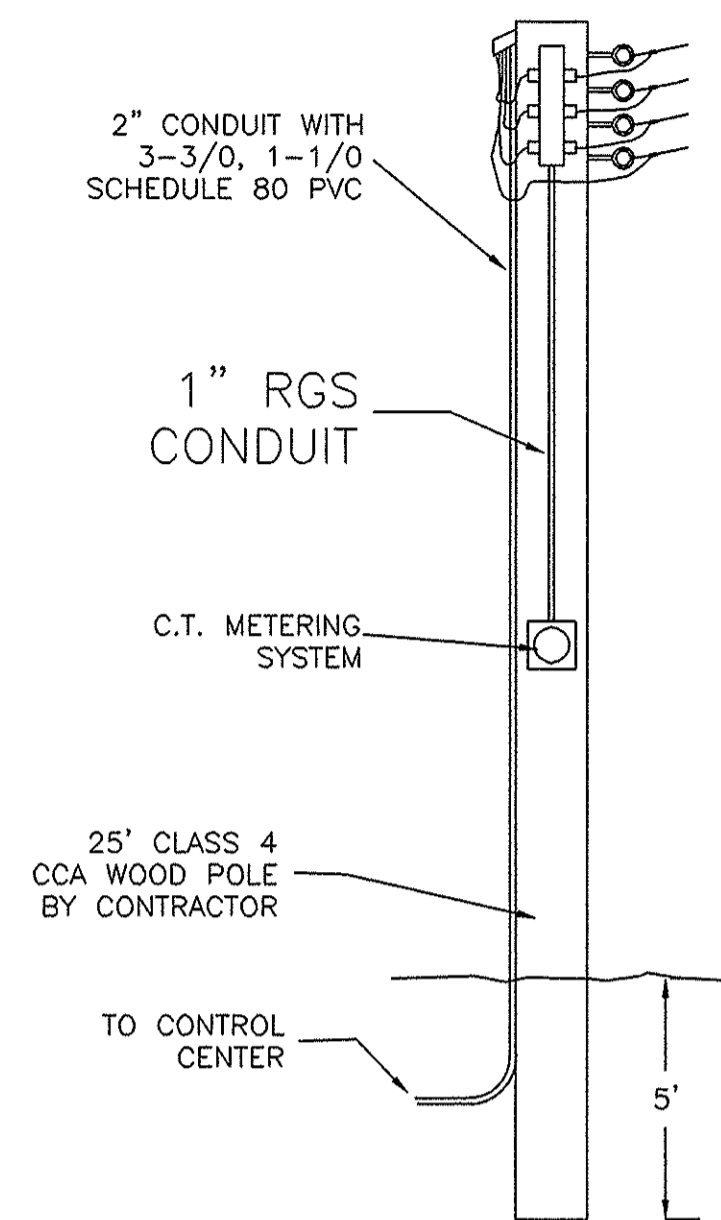
39-01-383-99-02

PROFILE VIEW

1"=5'

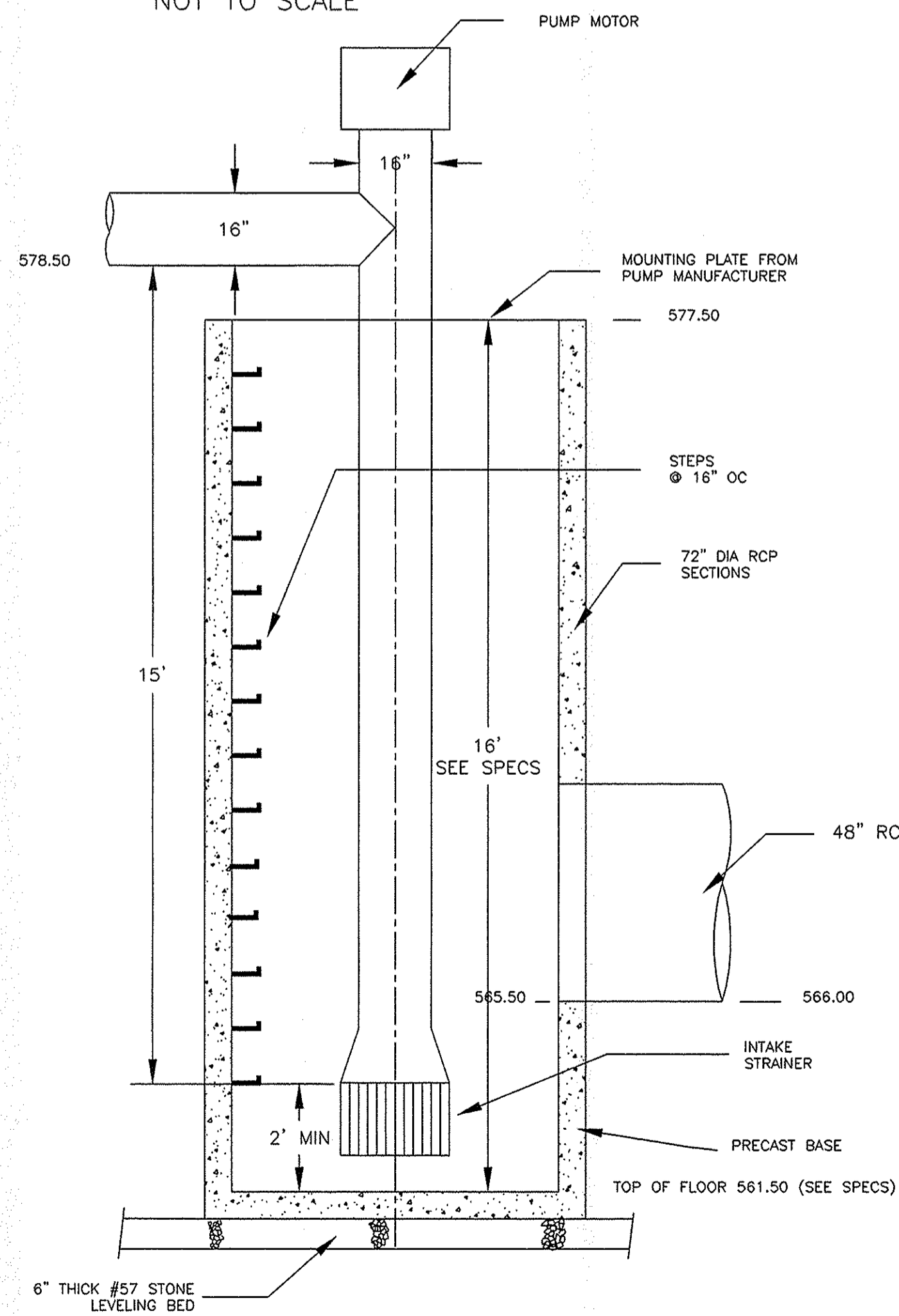


SERVICE POLE



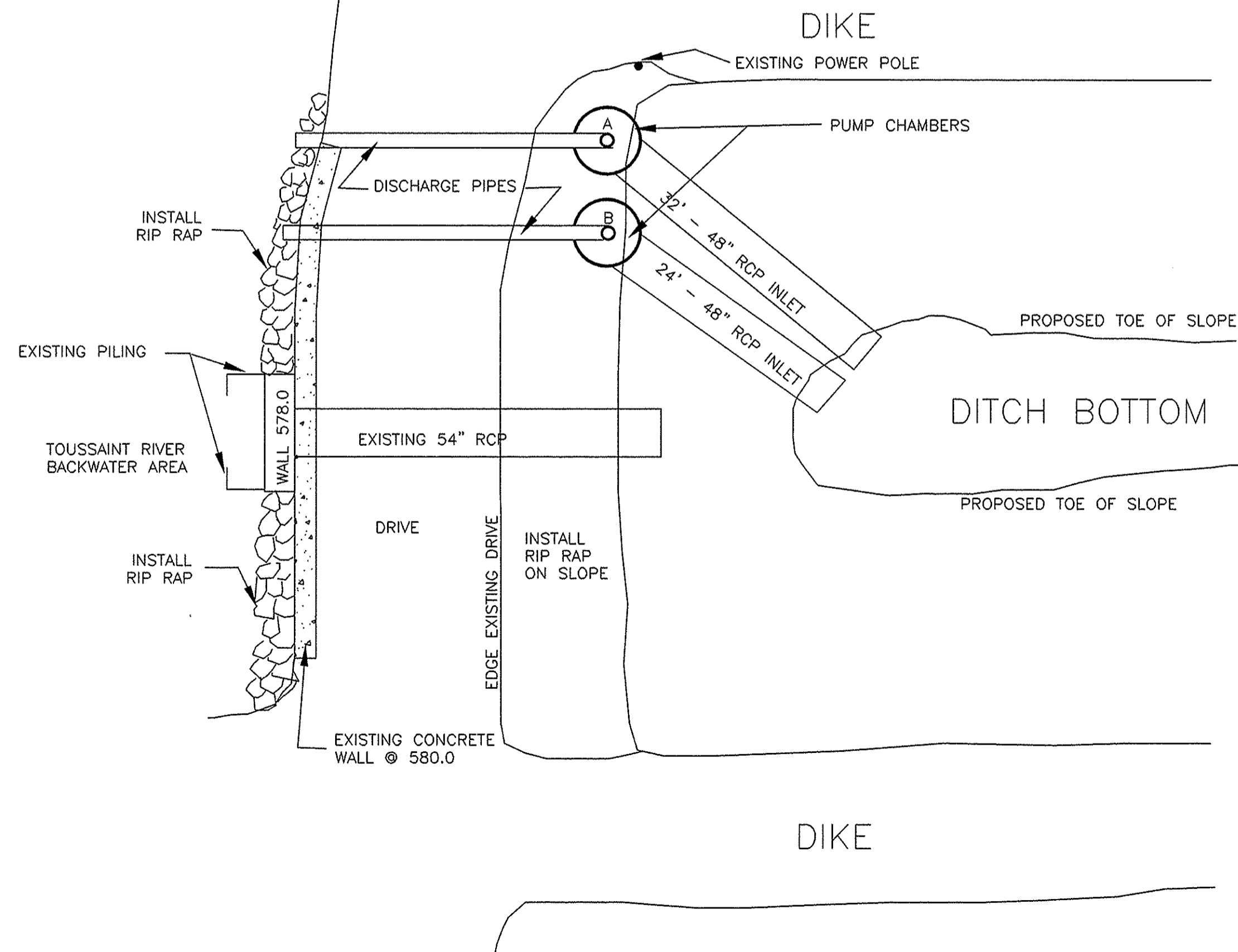
PUMP CHAMBER DETAIL

NOT TO SCALE

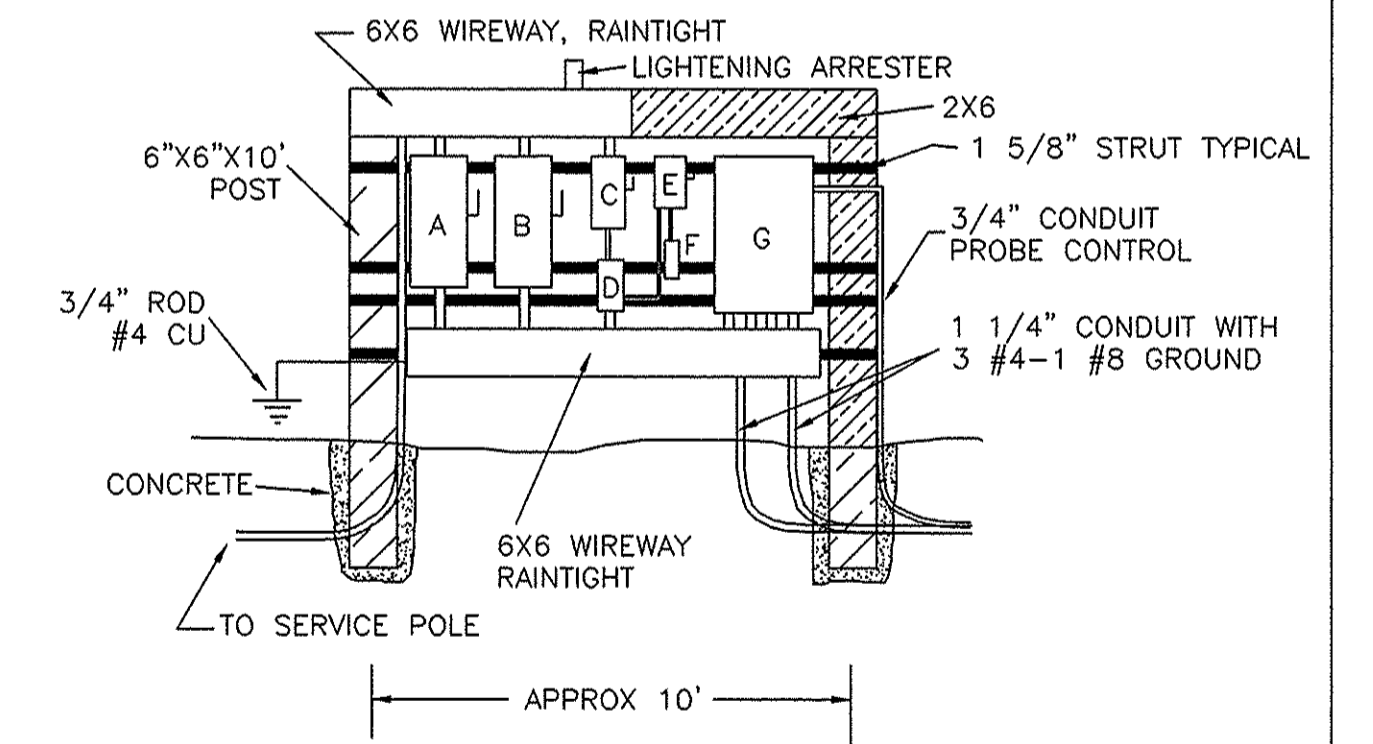


SITE PLAN

1"=10'



CONTROL CENTER



Job Class V

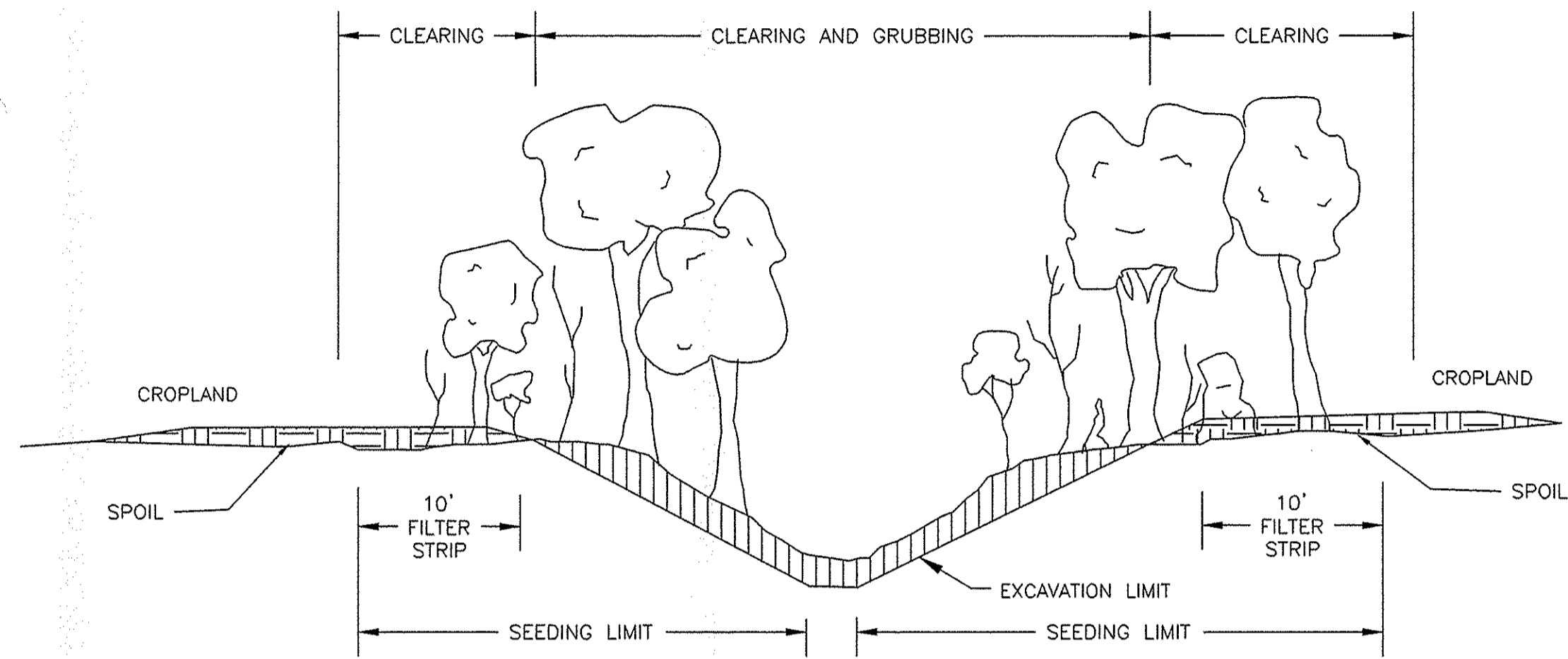
WINTER DITCH DRAINAGE IMPROVEMENT
CARROLL TOWNSHIP
SECTIONS 10, 11, 14, 15, 16
OTTAWA COUNTY OHIO

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

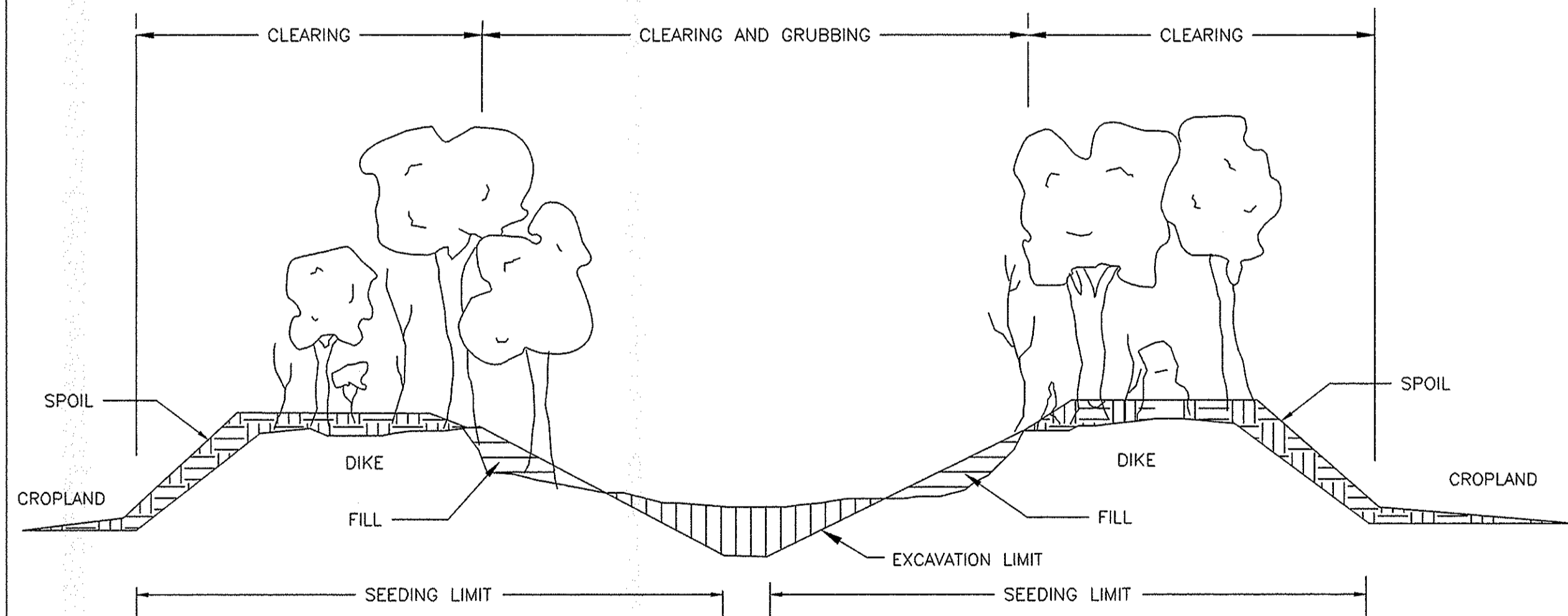
Designed	MIKE GARGAC	Date	2-99	Approved by	_____
Drawn	MIKE GARGAC	Const. Approval	2-99	Title	_____
Redlined	_____	Sheet	11	Drawing No.	39-01-383-99-02
Checked	Paul Chester	of 12	6/99		

BRUSH, SPOIL & SEEDING DETAIL

DETAIL A TWO SIDED CONSTRUCTION



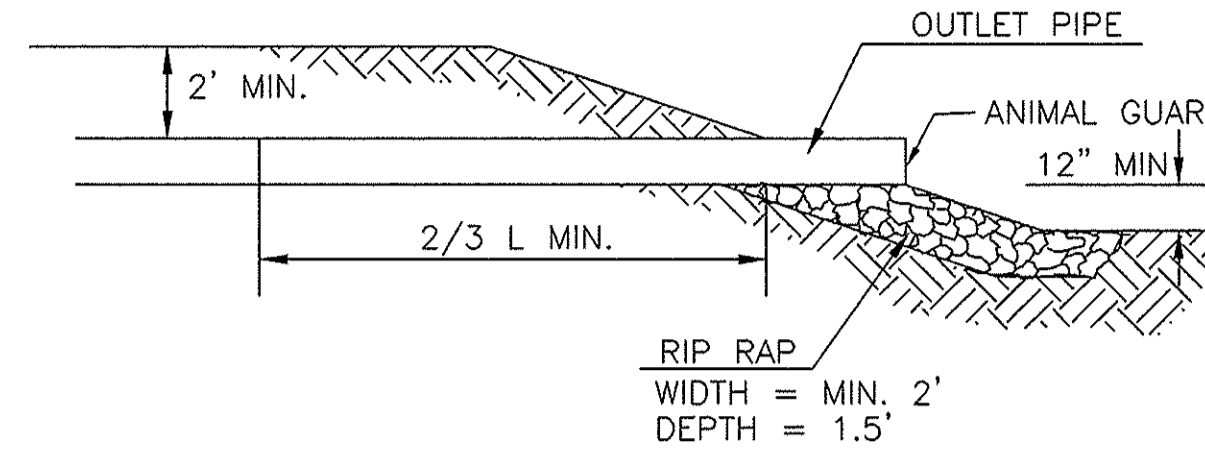
DETAIL B TWO SIDED CONSTRUCTION



BRUSH, SPOIL, & SEEDING DETAIL TABLE

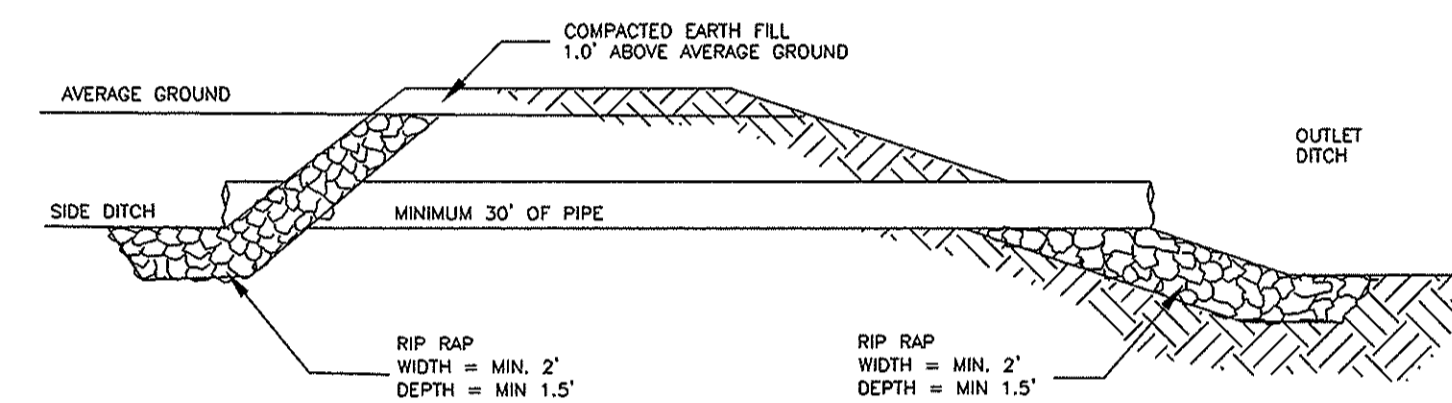
GOODSITE CHANNEL	STA 0+00 - 54+00	DETAIL A
GOODSITE CHANNEL	STA 54+00 - 68+30	DETAIL B
BRANCH A	STA 0+00 - 5+85	DETAIL A
BRANCH B	STA 0+00 - 3+00	DETAIL A
WINTER MAIN CHANNEL	STA 68+30 - 104+80	DETAIL B
SCHLUNZ BRANCH	STA 0+00 - 13+10	DETAIL B
LEUTZ ROAD BRANCH	STA 0+00 - 7+00	DETAIL B

OUTLET PIPE INSTALLATION

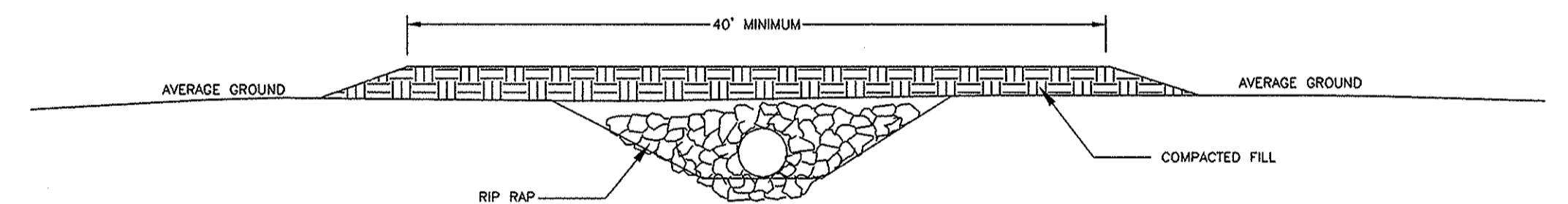


TYPICAL EROSION CONTROL STRUCTURE - DETAIL

PROFILE VIEW



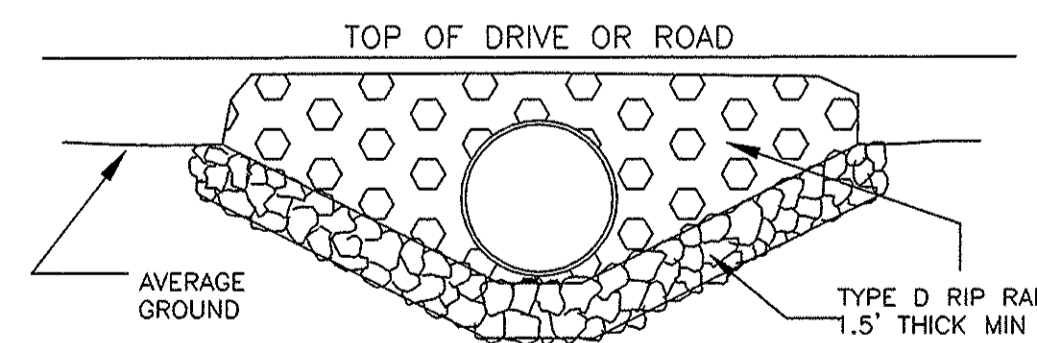
INLET END VIEW



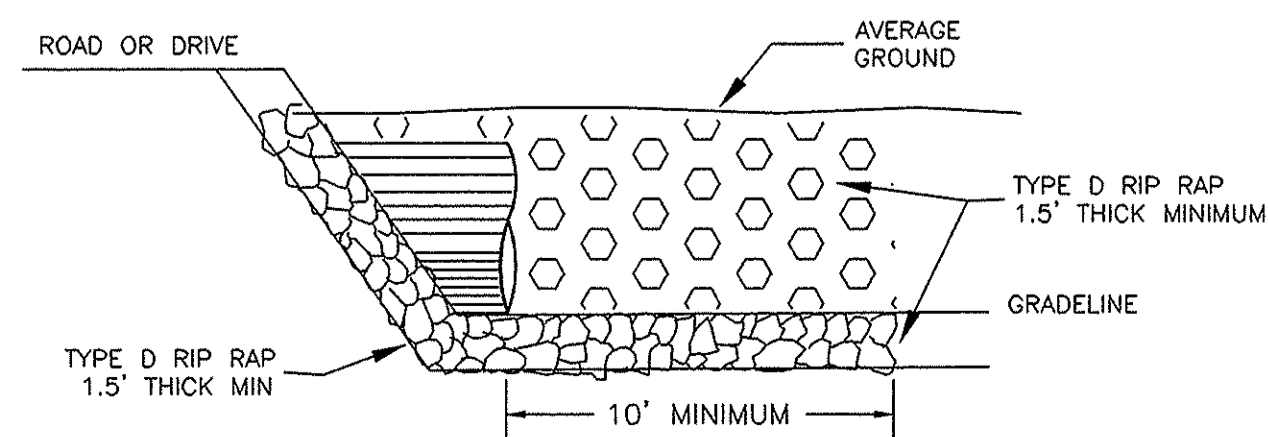
CULVERT RIP RAP DETAIL

END VIEW

INLET AND OUTLET



SIDE VIEW



Job Class

WINTER DITCH DRAINAGE IMPROVEMENT
CARROLL TOWNSHIP
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OTTAWA COUNTY OHIO

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Drawn	MIKE GARGAC	Title	Const. Approval	Title	_____
Redlined	_____	Sheet	No. 12	Drawing No.	_____
Checked	P. W. Chester	of 12	6/99	39-01-383-99-02	