

500 250 0 500 1000 1500

SCALE IN FEET
SCALE 1"=500'

LEGEND

- ROAD
- RAILROAD
- WATERSHED BOUNDARY
- PROPERTY LINE
- FENCE
- STATION
- DITCH
- ACRES DRAINED

DESIGNER NOTIFICATION TO OUPS

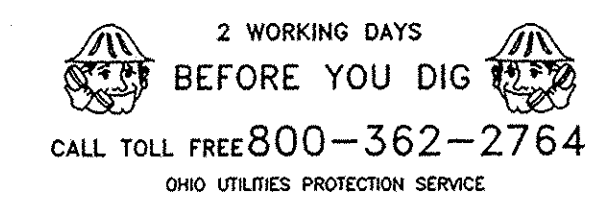
BY: MIKE GARGAC DATE: 8/27/2002 ID#: 827075046

UTILITY			MEMBER OUPS	LIMITED BASIS PARTICIPANTS
NAME	ADDRESS	PHONE NO.		
COLUMBIA GAS	CLEAR		X	
OH VILLAGE	NO RESPONSE		X	
TECO	NO RESPONSE		X	
VERIZON	NO RESPONSE		X	
ADELPHIA	NO RESPONSE	1-800-346-2288		X
OTTAWA CO. ENG.	CLEAR	1-419-734-6777		X
OTTAWA CO. SANITARY	NO RESPONSE	1-800-734-6725		X

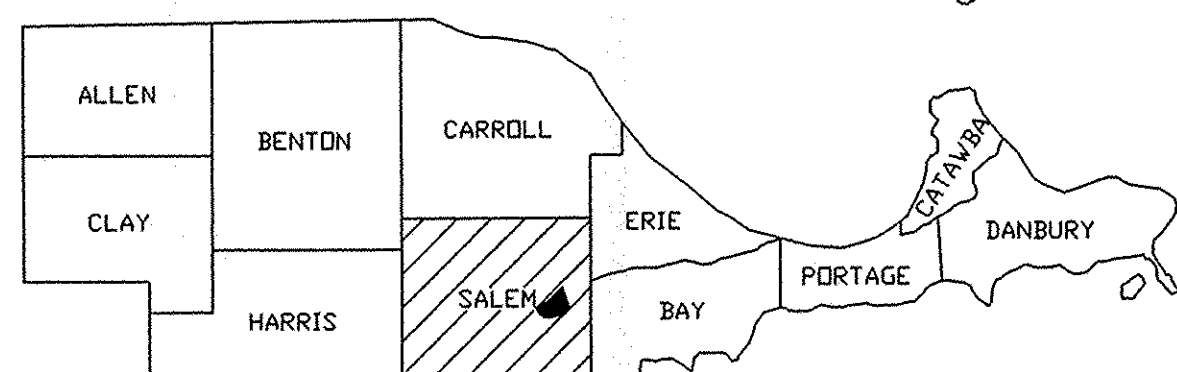
Note To Excavator

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.



NOTE: SEE ATTACHED CONSTRUCTION, MATERIAL, AND BID SPECIFICATIONS



INDEX

SHEET 1.....	LOCATION MAP, PLAN VIEW
SHEET 2.....	PROFILE
SHEET 3.....	CROSS-SECTIONS
SHEET 4.....	CROSS-SECTIONS, BENCHMARKS, SOILS
SHEET 5.....	CROSS-SECTIONS
SHEET 6.....	TYPICAL DRAWINGS - OUTLET PIPE, CULVERT RIP RAP, BRUSH, SPOIL, SEEDING

Robert J. Stenwick 2/20/03
OTTAWA COUNTY ENGINEER DATE

Michael R. Gargac 1 November 2004
CONSTRUCTION APPROVED BY DATE

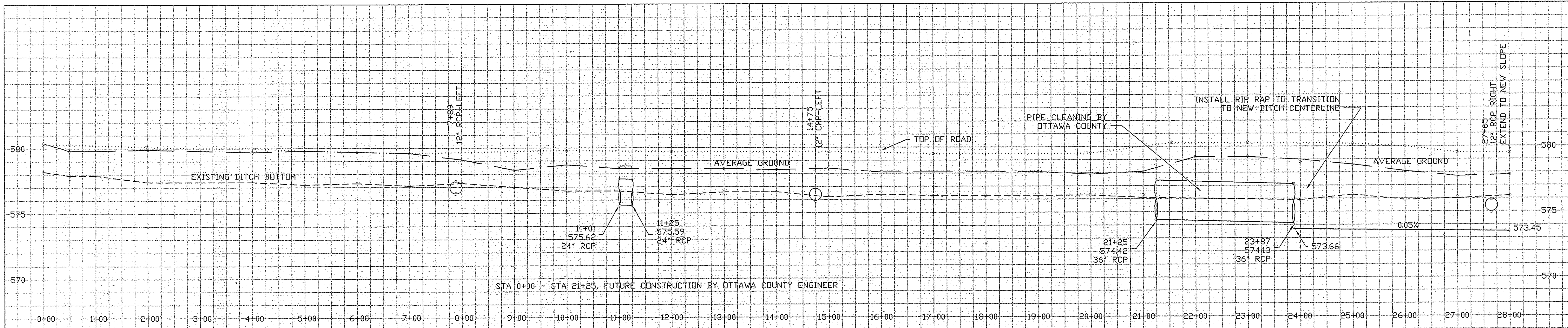
JOB CLASS 1

DATE 7/20/02
Approved *Mike Gargac*
Title *Const. Approved M.A.S.A. Technician*

DATE 7/20/02
Designed *MIKE GARGAC*
Drawn *MIKE GARGAC*
Traced
Checked

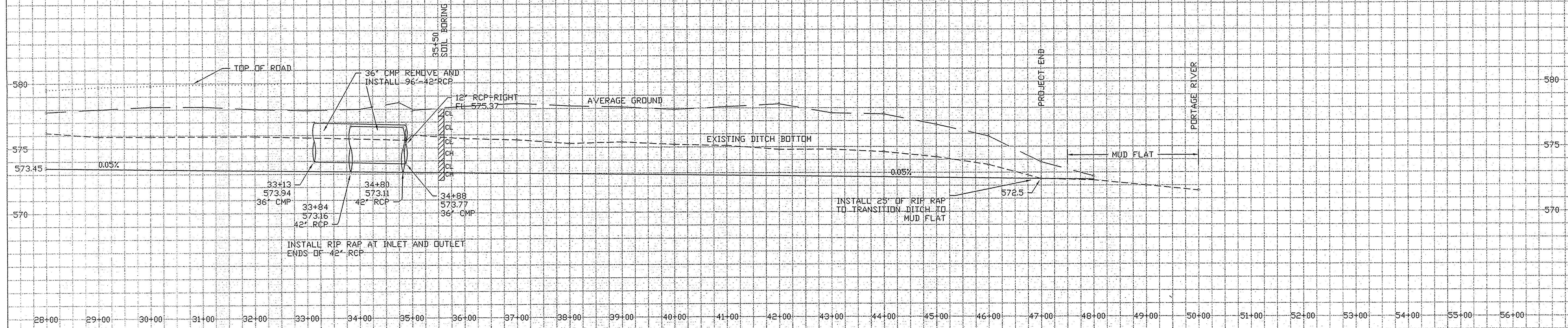
MILLINGER DITCH
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CAD FILE I.D.
MillingerCover.dwg
8/27/2002 10:58 AM
Michael Gargac, Ottawa SWCD
Sheet 1 of 6



STA 0+00 - STA 21+25, FUTURE CONSTRUCTION BY OTTAWA COUNTY ENGINEER

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00



INSTALL RIP RAP AT INLET AND OUTLET ENDS OF 42' RCP

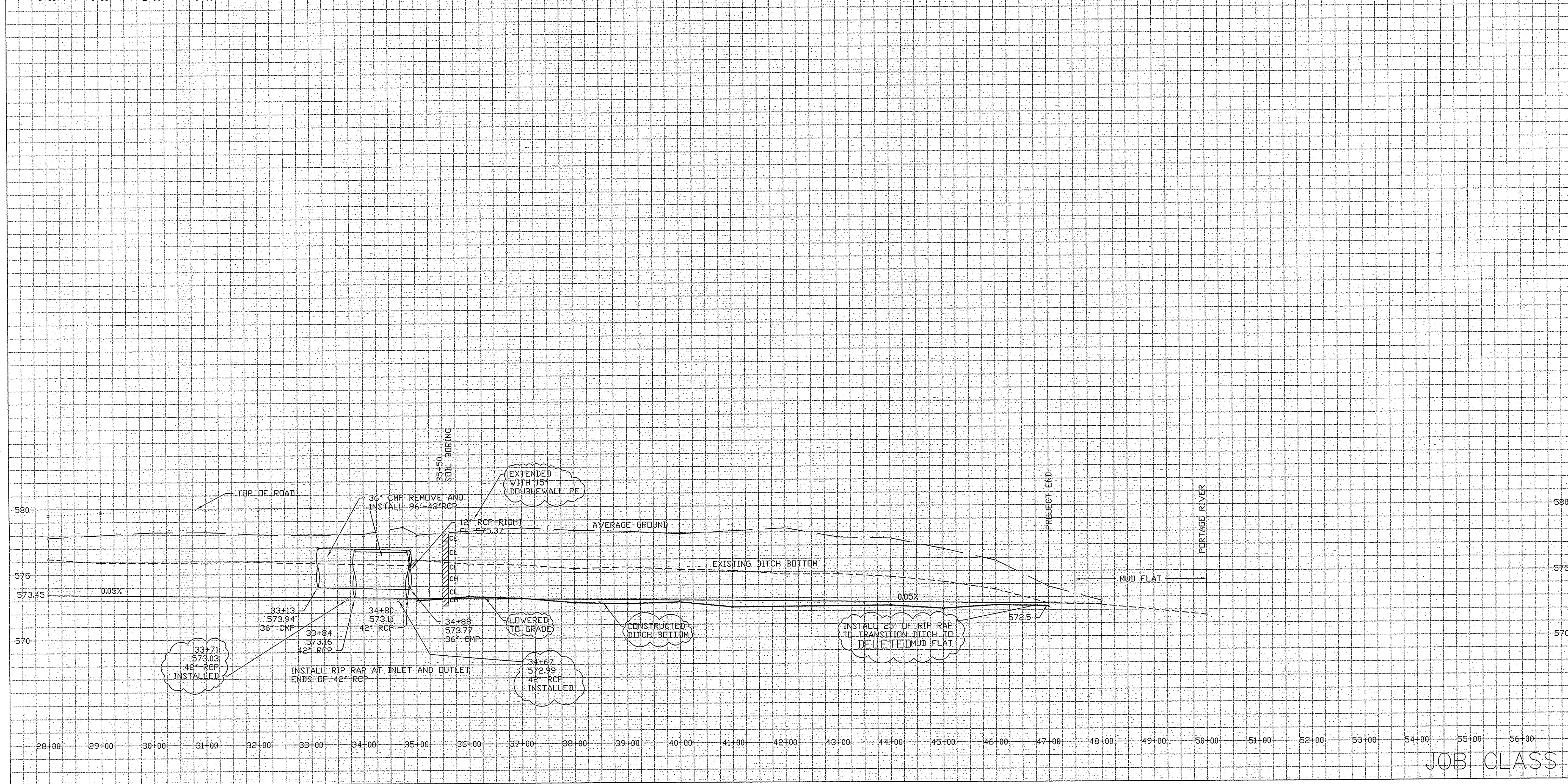
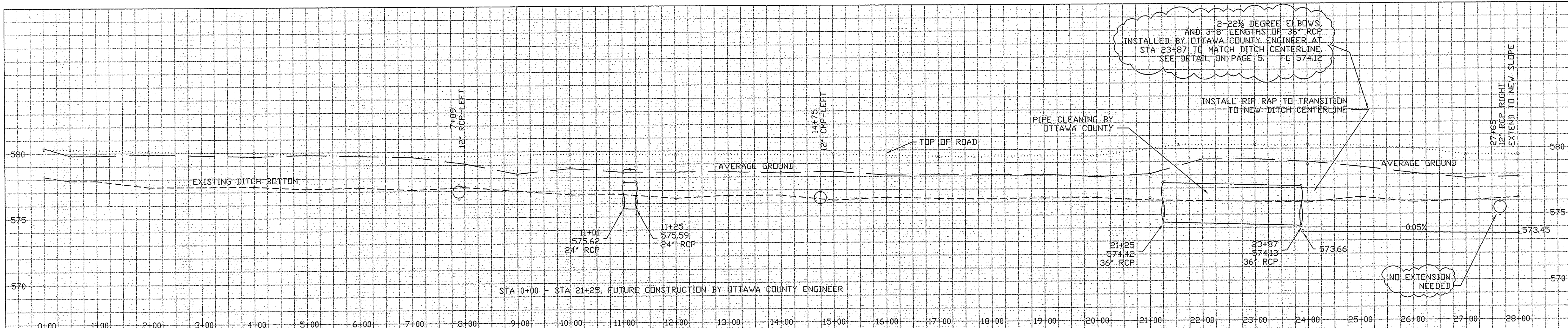
INSTALL 25' OF RIP RAP TO TRANSITION DITCH TO MUD FLAT

28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00

DATE	Approved
DATE	Title
Designed	Const. Approved
Drawn	Title
Traced	Title
Checked	Title

DESIGNED: MINE 6/26/02
 DRAWN: MINE 6/26/02
 TRACED:
 CHECKED:
 DATE: 6/22/02
 DATE: 6/22/02

MILLINGER DITCH
 USDA - NATURAL RESOURCES CONSERVATION SERVICE



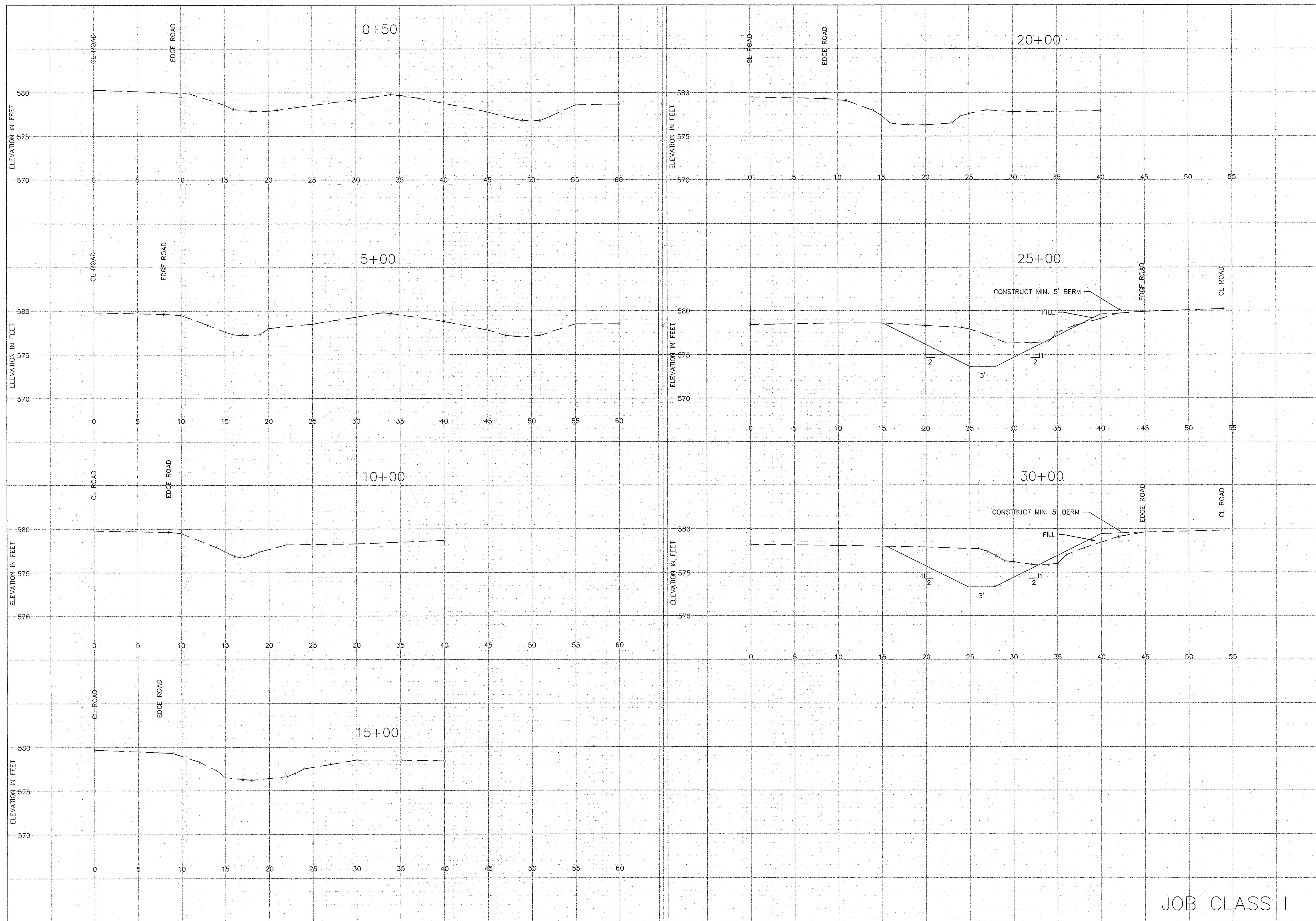
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Approved	6/2002
Title	6/2002
Const. Approved	
Title	

Designed	MIKE GARGAC
Drawn	MIKE GARGAC
Traced	
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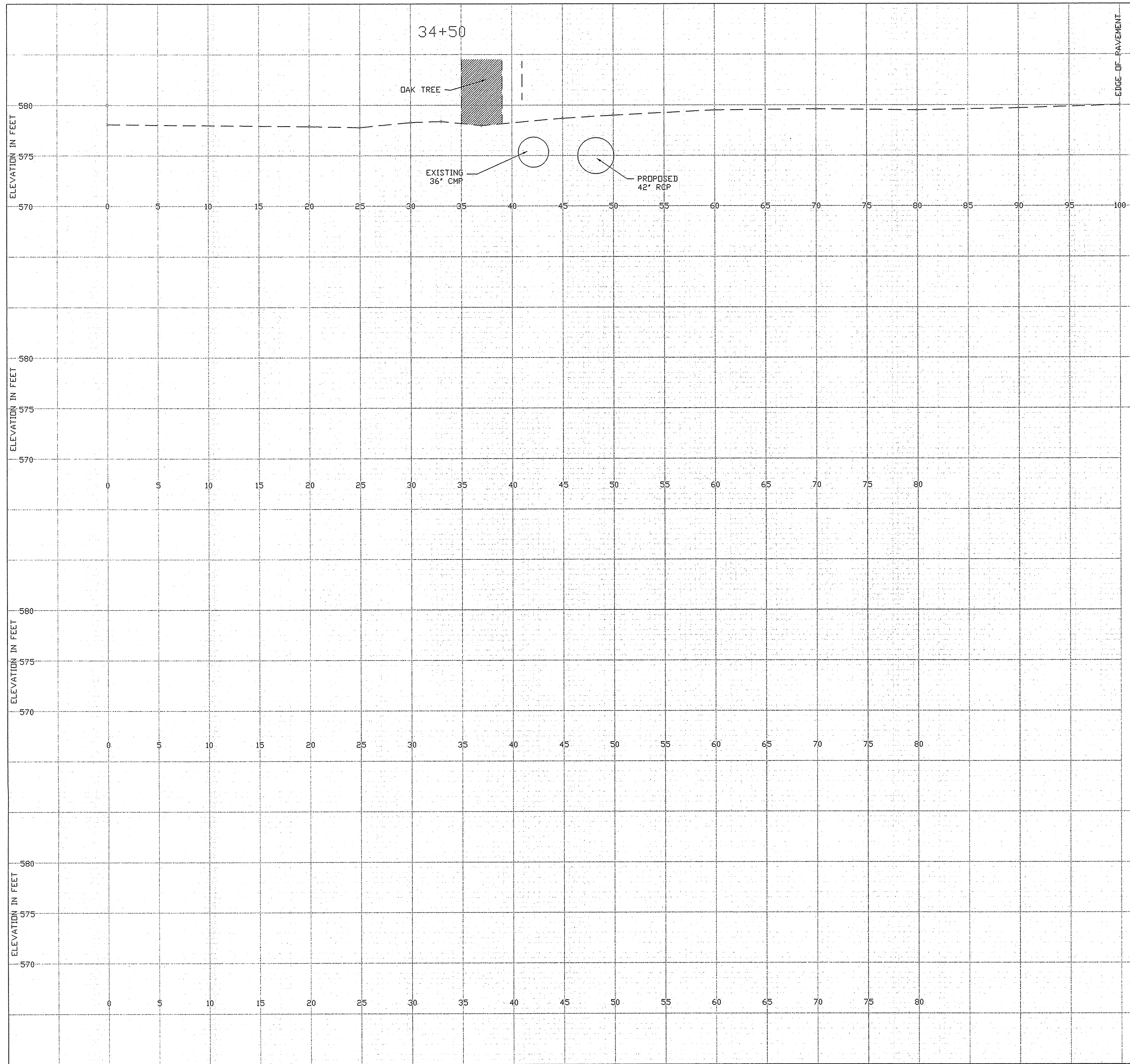
MILLINGER DITCH

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JOB CLASS I



DATE	3/2002	Approved	DATE	3/2002	Const. Approved
Designed	MIKE GARGAC	Title	Drawn	MIKE GARGAC	Title
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MILLINGER DITCH					
USDA - NATURAL RESOURCES CONSERVATION SERVICE					
JOB CLASS I					
CAD FILE I.D. 3/11/2002 8:58 AM Mike Gargac, Sr. DRAWING NUMBER Sheet 3 of 6					



BM #1 SAME AS BM #3 FROM JOHN HARTIGAN SURVEY. TOP OF SPIKE IN SOUTHEAST SIDE OF POLE ON SOUTH SIDE OF PORTAGE RIVER SOUTH ROAD 200' WEST OF MUDDY CREEK NORTH ROAD. MSL ELEV 578.97

BM #2 CHISELED + ON TOP OF SOUTH END OF 36" RCP IN THE SOUTHWEST CORNER OF THE INTERSECTION OF PORTAGE RIVER SOUTH ROAD AND MUDDY CREEK ROAD. MSL ELEV 577.74

BM #3 TOP BRASS USGS MARKER IN CONCRETE MONUMENT ON THE NORTH SIDE OF PORTAGE RIVER SOUTH ROAD 50' WEST OF MUDDY CREEK NORTH ROAD MSL ELEV 579.32

BM #4 SPIKE IN WEST SIDE OF 48" DIAMETER OAK TREE ON THE WEST SIDE OF PORTAGE RIVER SOUTH ROAD AT STA 34+50. MSL ELEV 580.58

BM #5 SPIKE IN SOUTHEAST SIDE OF 15" DIAMETER PIN OAK ON THE WEST SIDE OF THE DITCH AT STA 45+75. MSL ELEV 577.00

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.

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.

TOLEDO SILTY CLAY PONDED-THIS DEEP, NEARLY LEVEL, VERY 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. MOST AREAS RANGE FROM 5 TO 100 ACRES. SLOPE IS 0 TO 2 PERCENT.

DATE _____
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 Const. Approved _____
 Title _____

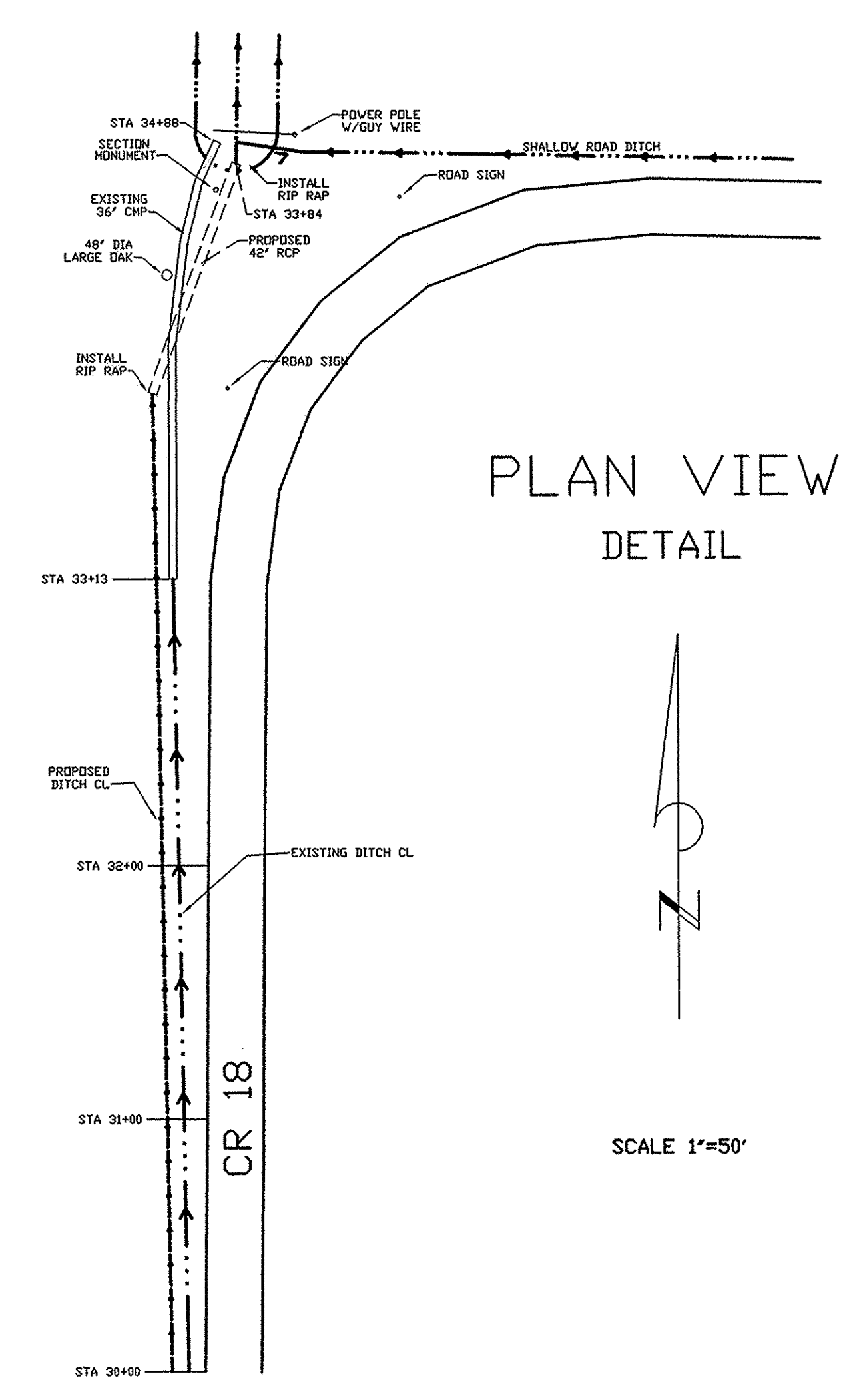
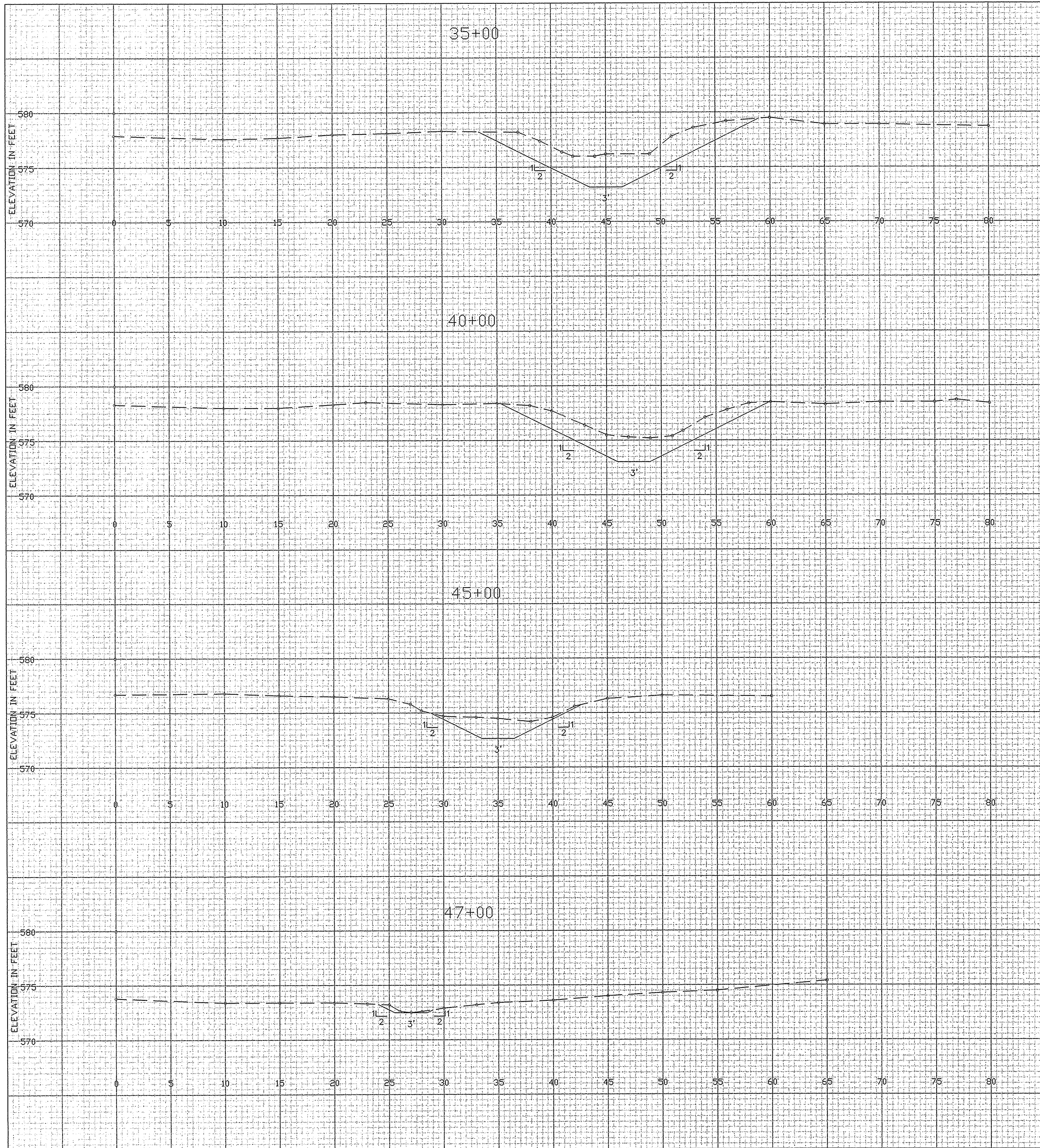
DATE 2/2002
 Designed MIKE GARGAC
 Drawn MIKE GARGAC
 Traced _____
 Checked _____

MILLINGER DITCH

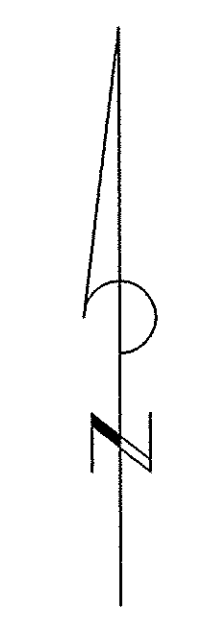
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JOB CLASS I

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 Michael Gargac, D11000 5/03
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 Sheet 4 of 6



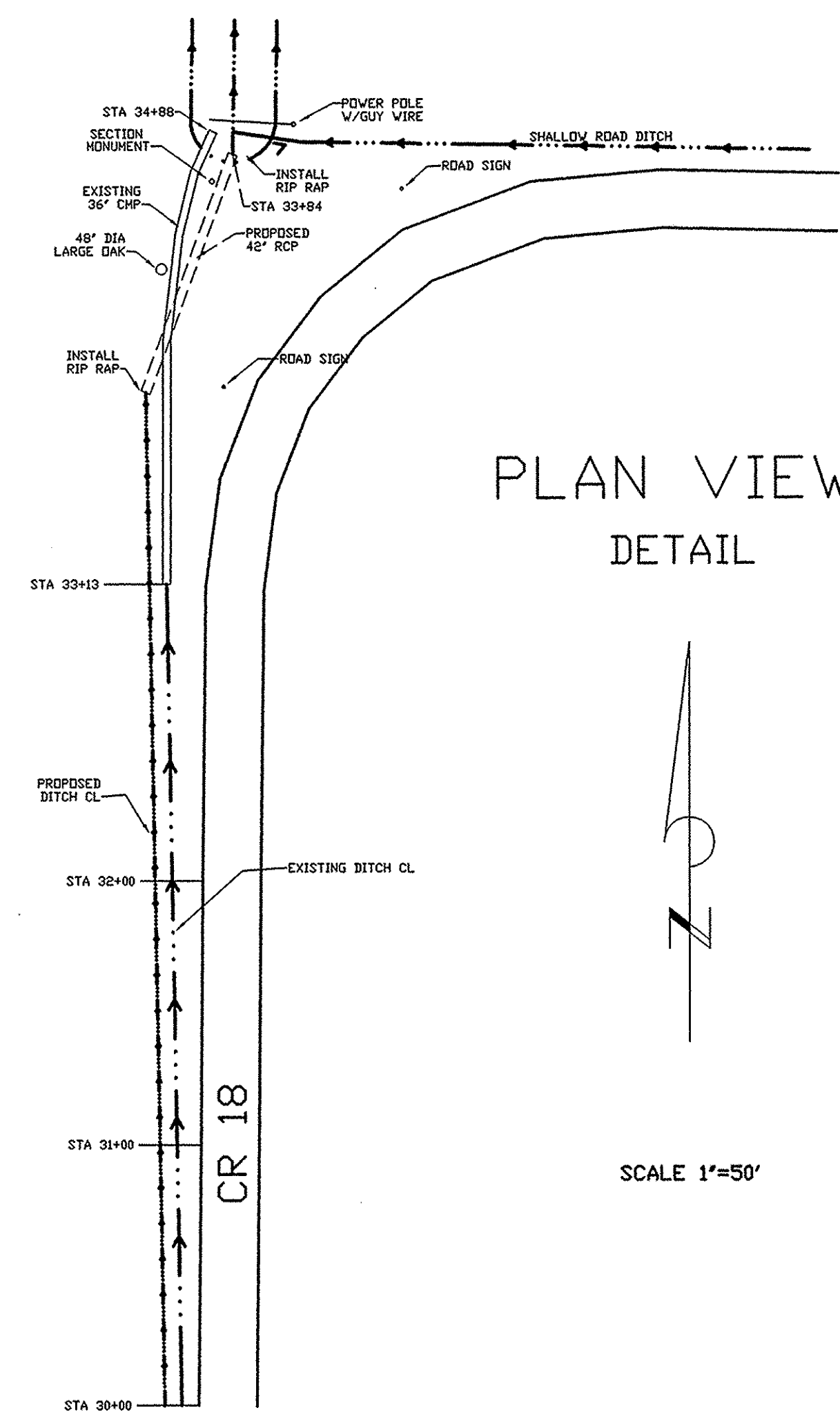
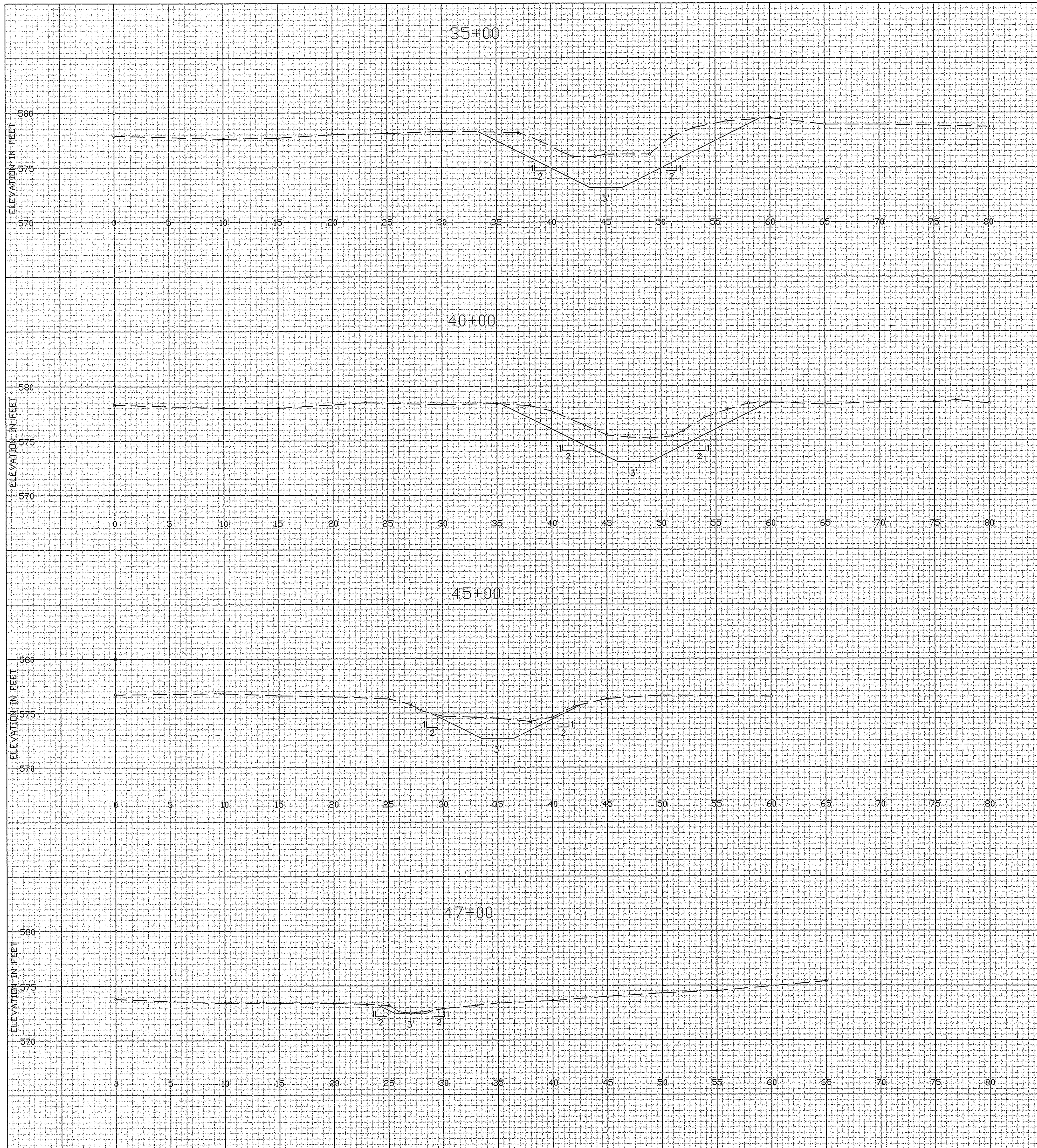
PLAN VIEW
DETAIL



SCALE 1"=50'

JOB CLASS I

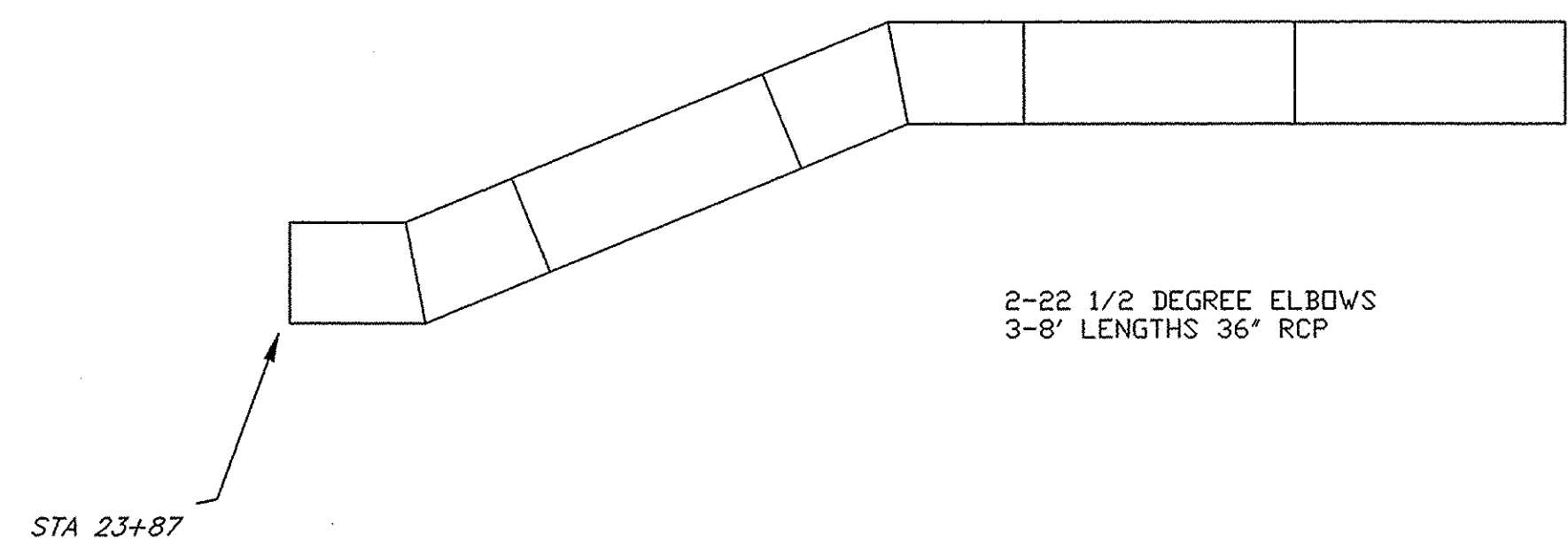
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Drawn	MINE GARGAC	Title	Traced		
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USDA - NATURAL RESOURCES CONSERVATION SERVICE					
CAD FILE I.D. MILLINGER DITCH MILLER RESOURCES CONSERVATION SERVICE					
DRAWING NUMBER					
Sheet 5 of 6					



PLAN VIEW
DETAIL

SCALE 1"=50'

AS BUILT PIPE DETAIL
NOT TO SCALE



STA 23+87

2-22 1/2 DEGREE ELBOWS
3-8' LENGTHS 36" RCP

JOB CLASS I

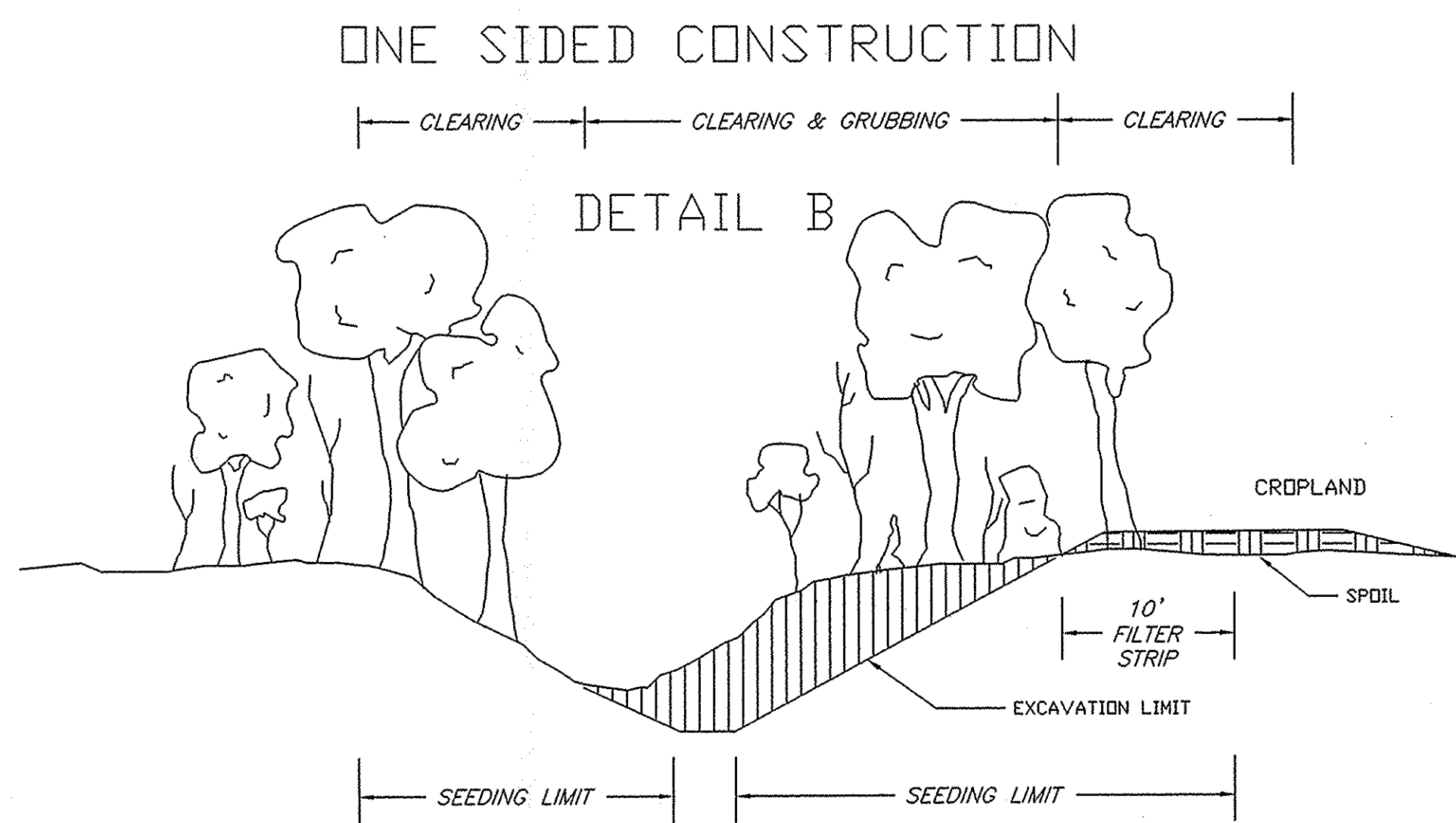
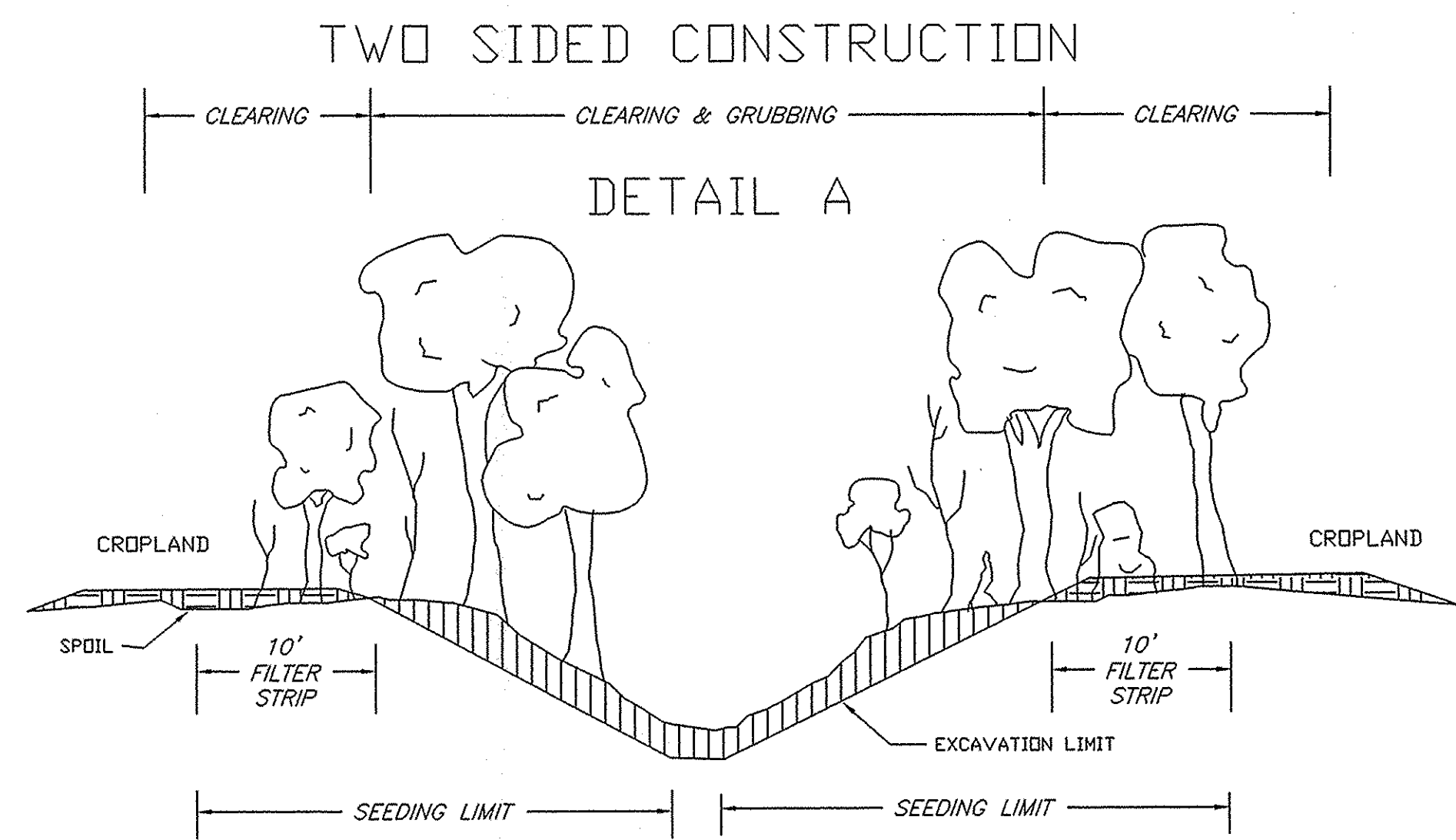
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Const. Approved	---
Title	---

DATE	2/2002
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MILLINGER DITCH

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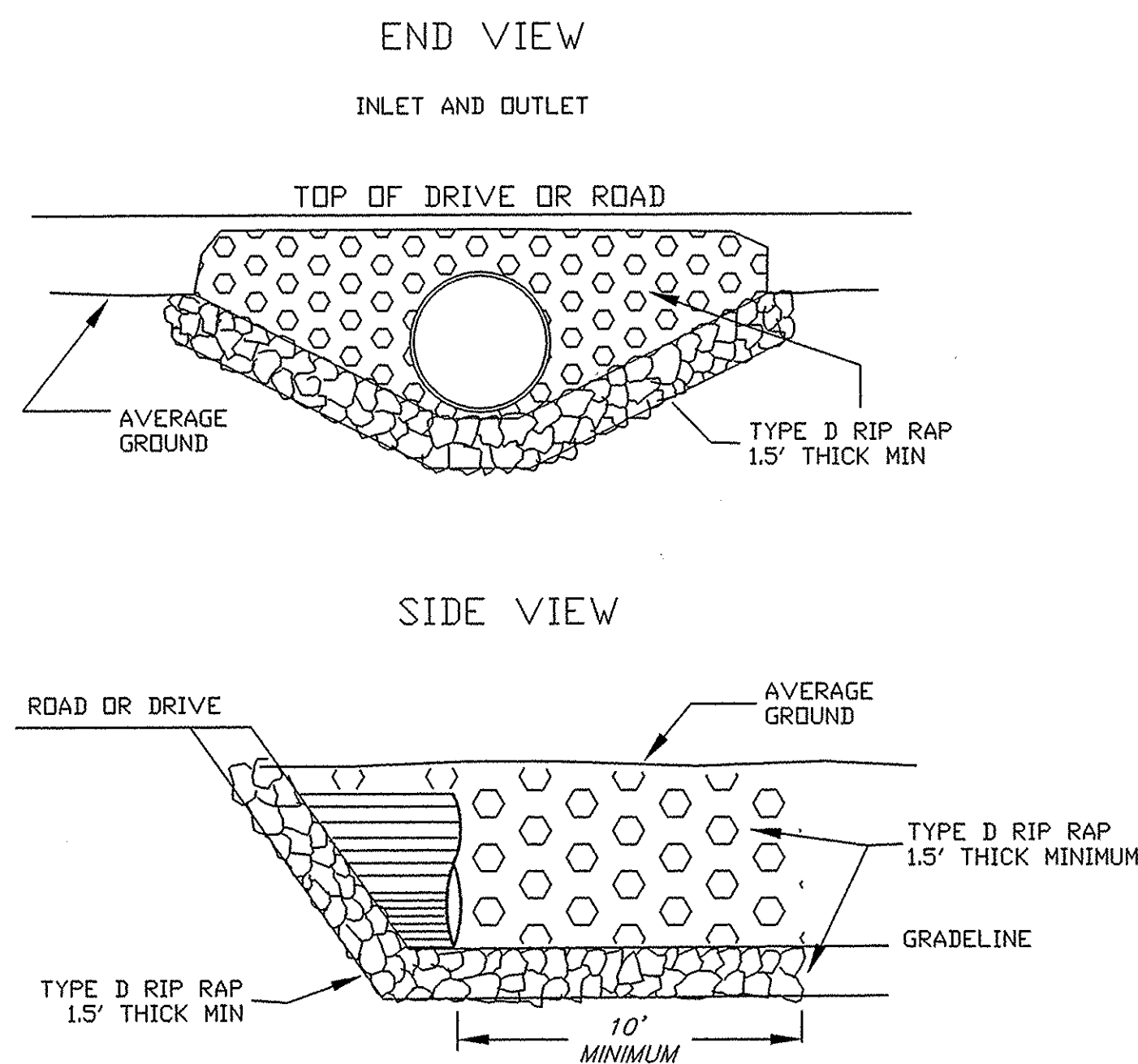
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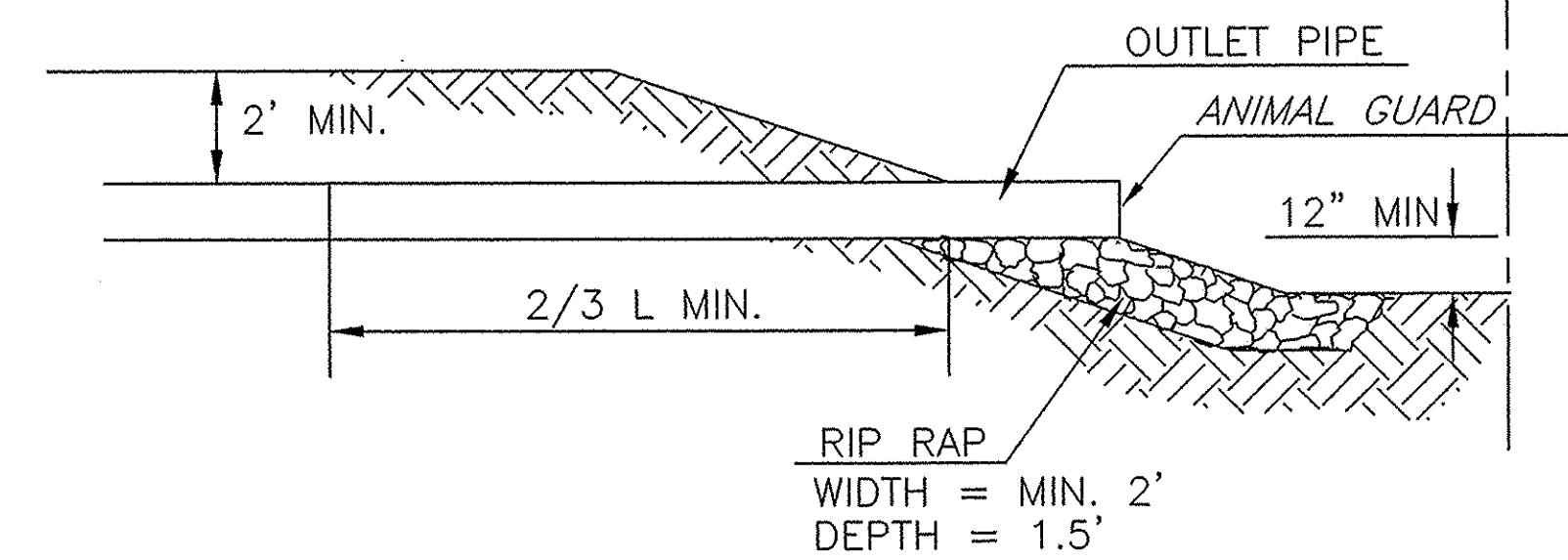
BRUSH, SPOIL, & SEEDING DETAIL TABLE

MAIN CHANNEL	STA	DETAIL
	STA 23+87 - 33+84	DETAIL B
	STA 34+80 - 42+45	DETAIL A
	STA 42+45 - 47+00	DETAIL B

CULVERT RIP RAP DETAIL

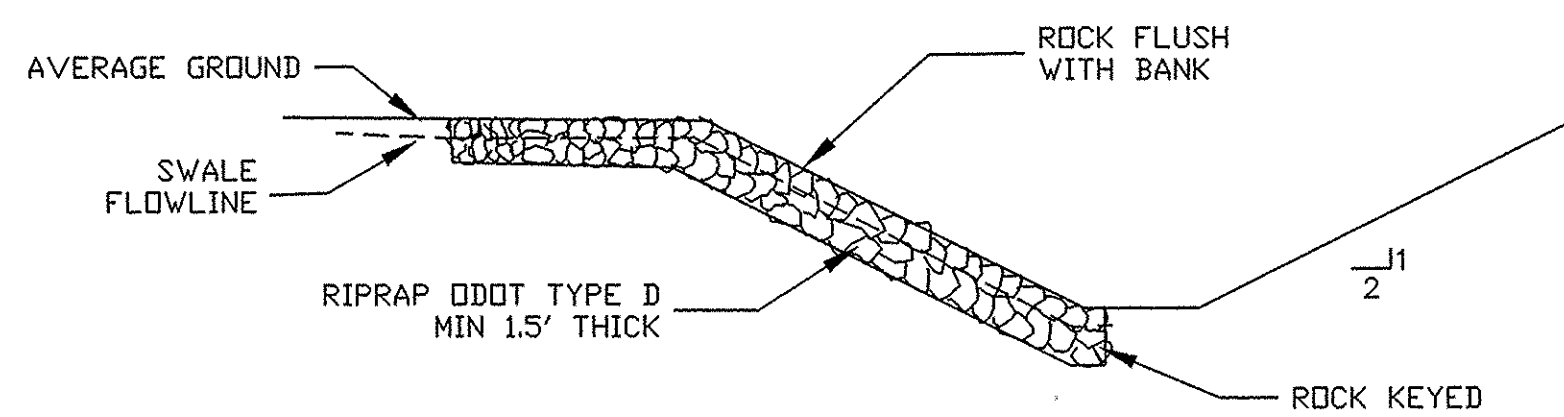


OUTLET PIPE INSTALLATION

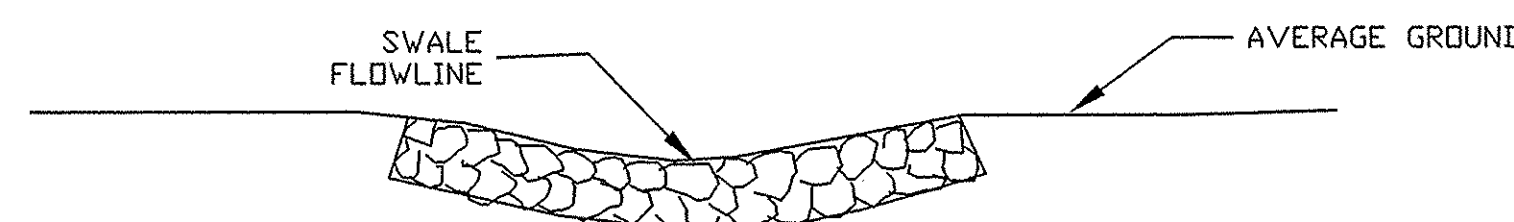


SWALE OR SIDE DITCH ENTRY

SIDE VIEW



END VIEW



DATE	APPROVED	TITLE

DATE	DESIGNED	DRAWN	TRACED	CHECKED
6/2002	MINE GARGAC	MINE GARGAC		

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Sheet 6 of 6

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