

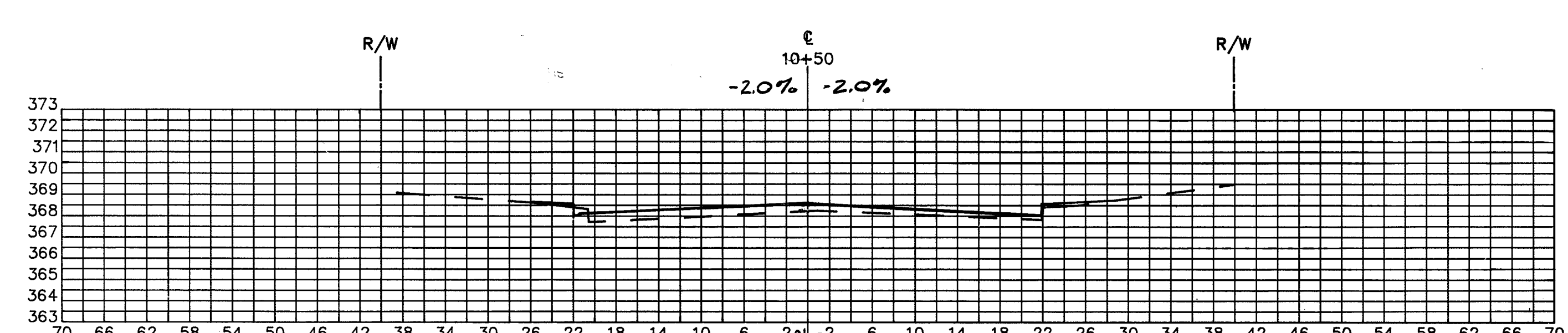
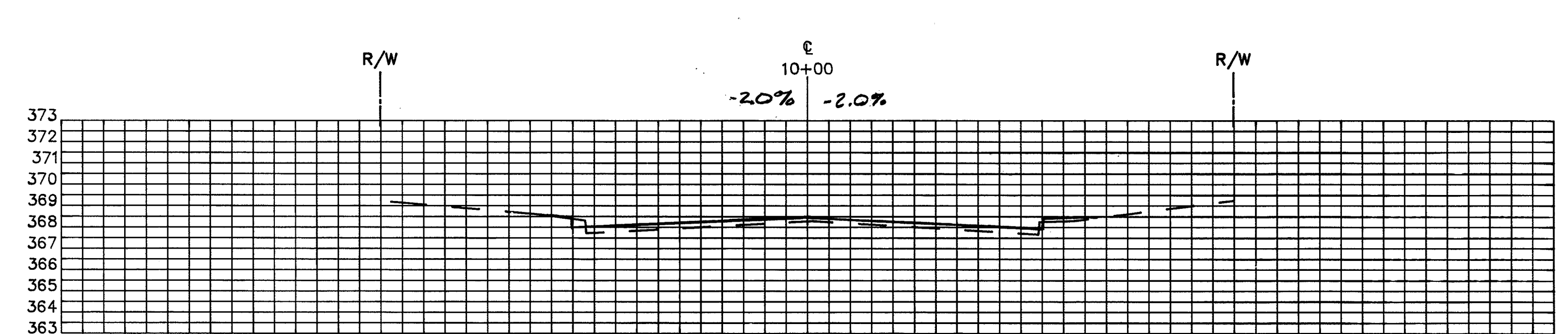
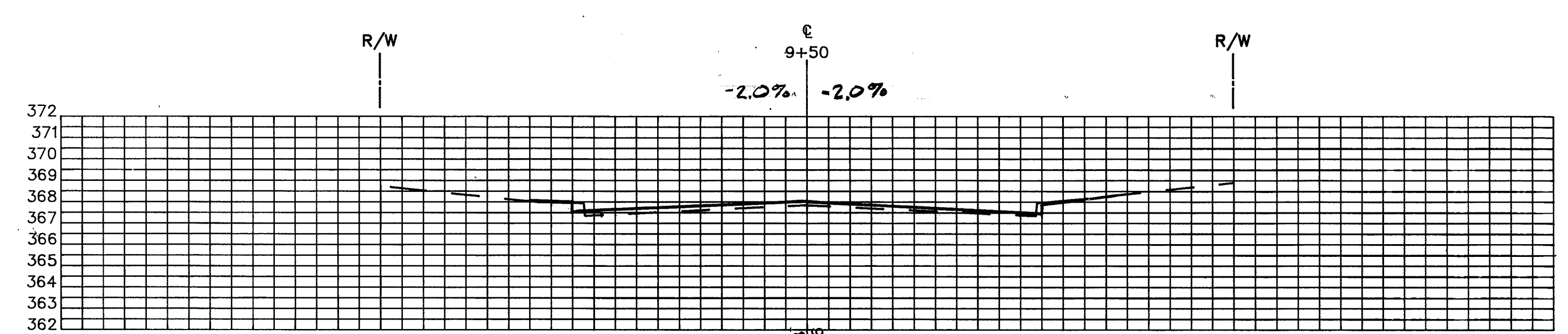
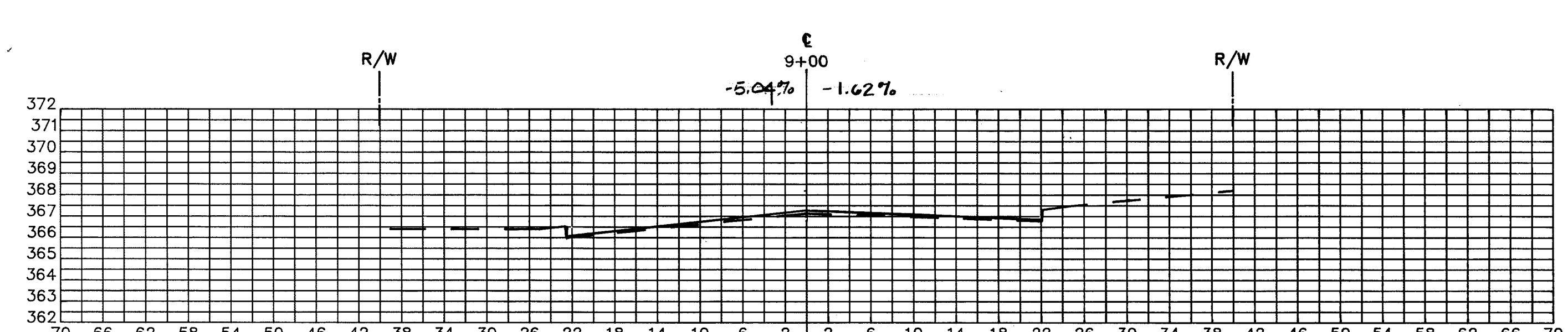
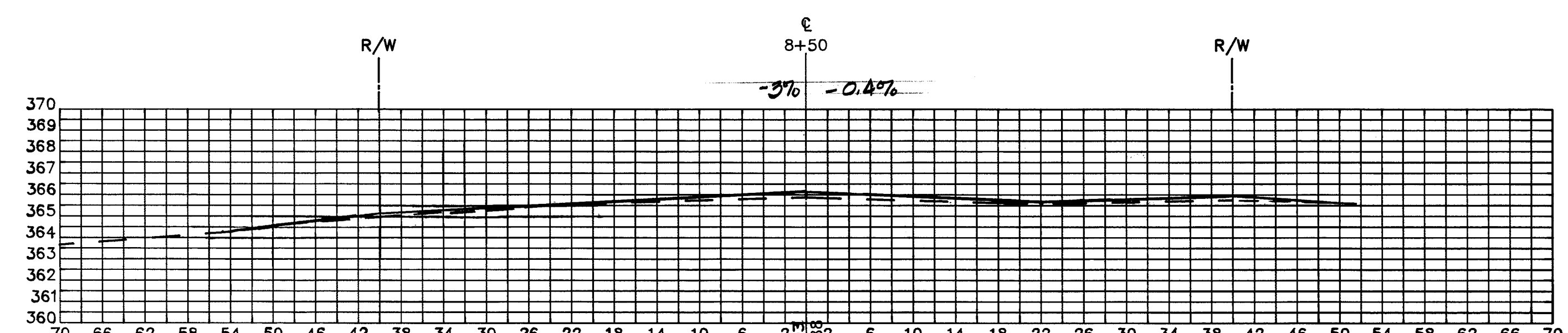
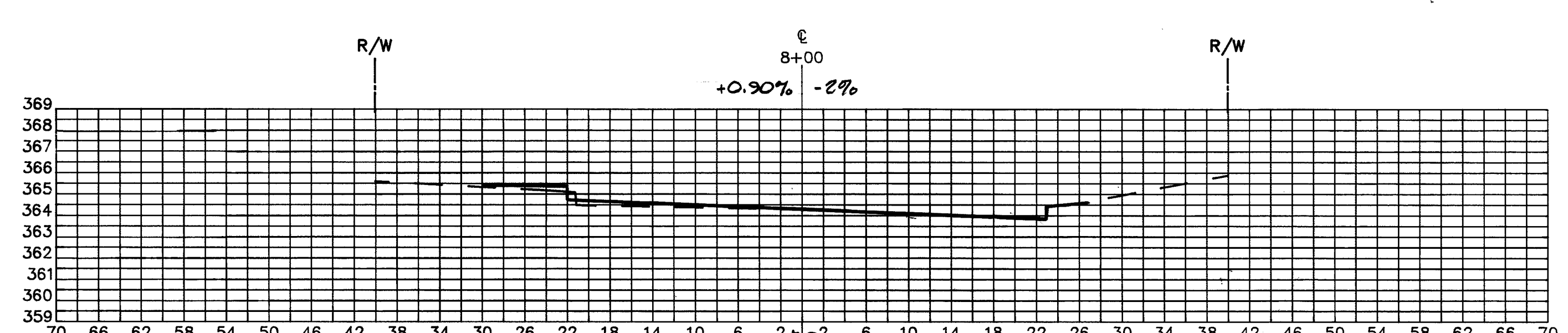
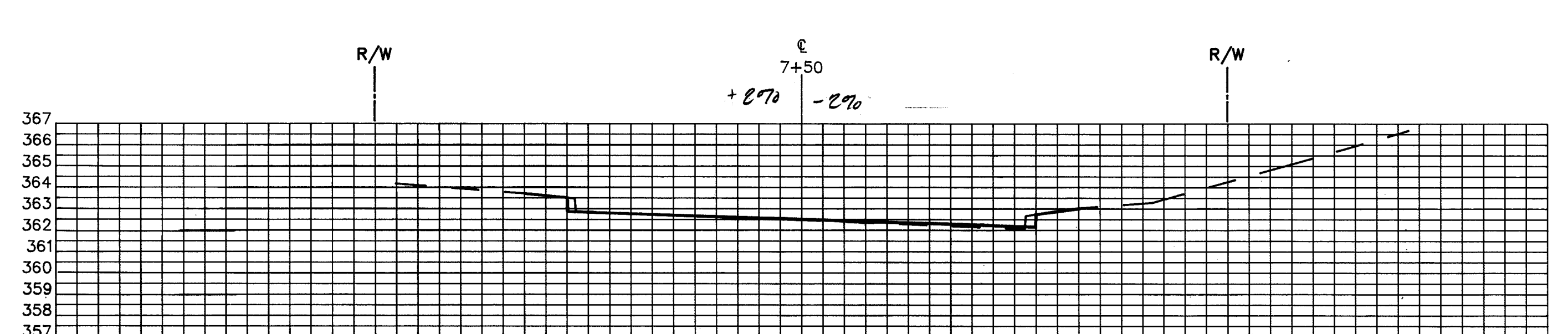
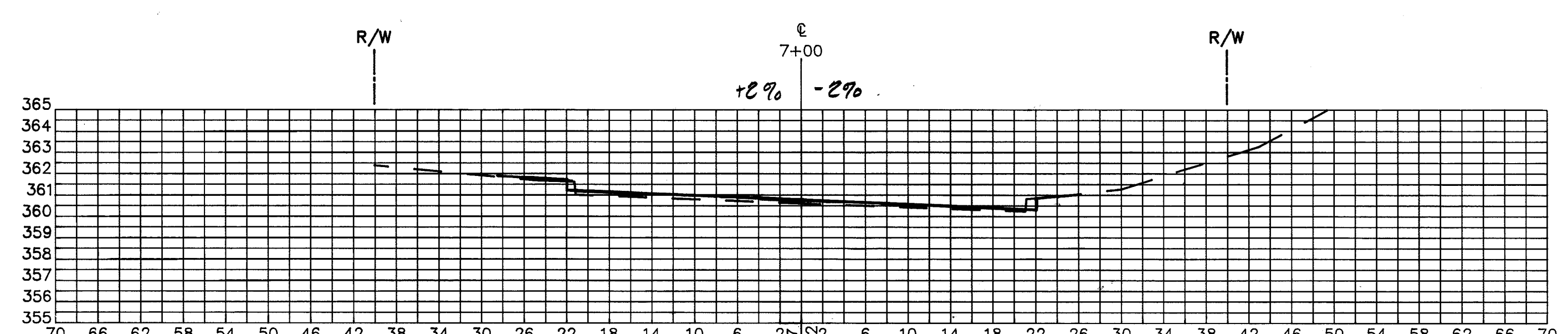
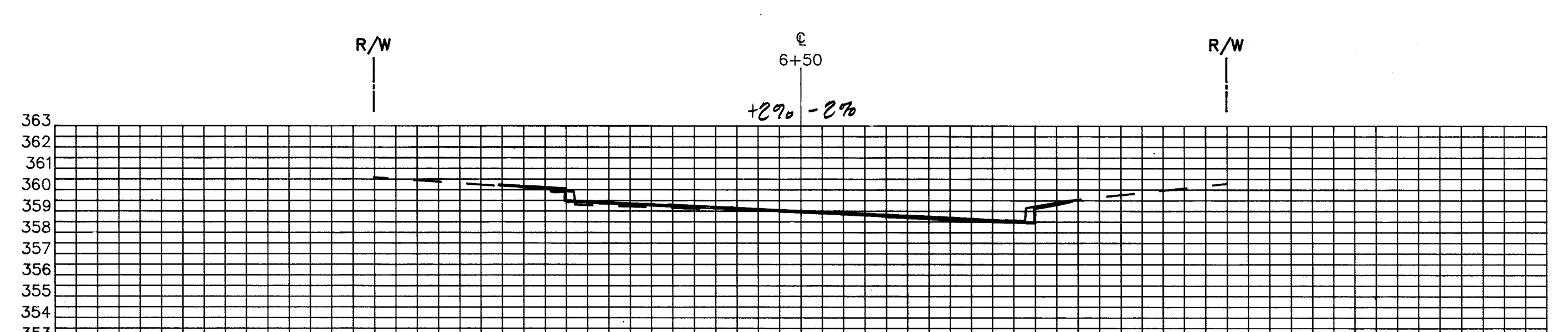
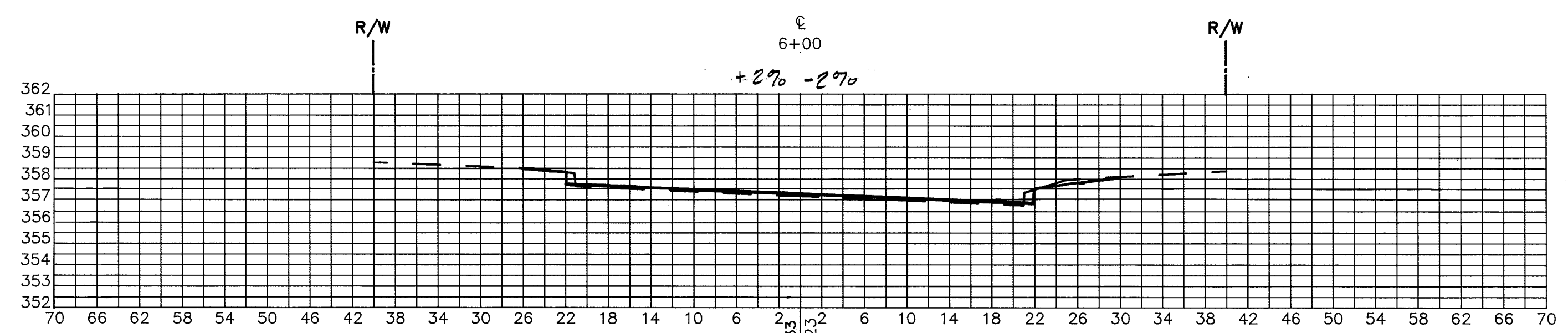
NOTE: THE PROPOSED CROSS SLOPES FOR NEW PAVEMENT ARE GIVEN WITH RESPECT TO P.G.L. SLOPE BREAKS ALONG CROSS SECTION ARE GIVEN WHERE APPLICABLE.

1601

| | | REVISIONS | | |
|----------|------|-----------|----|-------------|
| DESIGNED | DATE | DATE | BY | DESCRIPTION |
| DRAWN | DATE | | | |
| CHECKED | DATE | | | |
| APPROVED | DATE | | | |

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4680

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 0+00 TO 5+50
 HOWARD COUNTY, MARYLAND

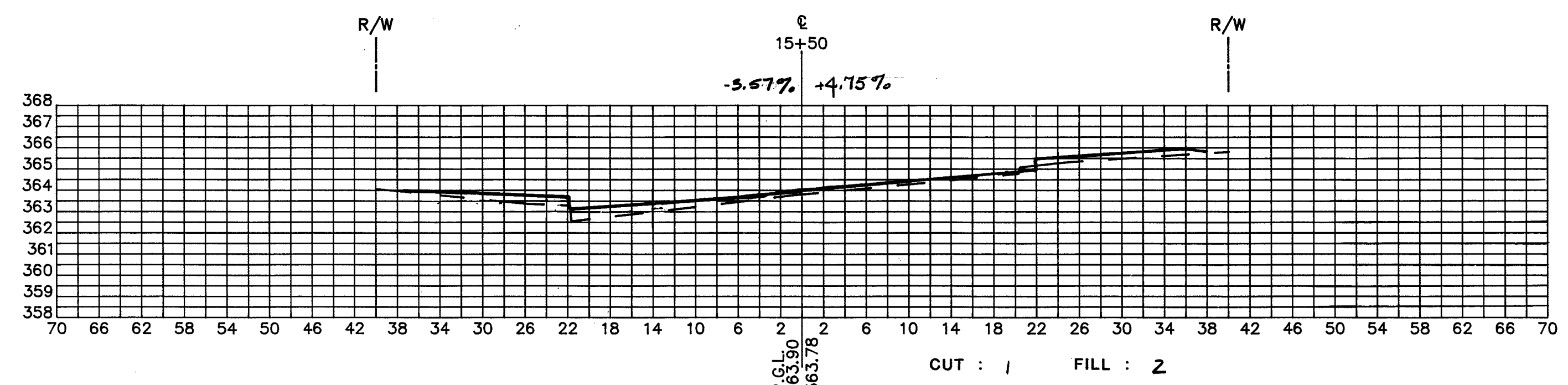
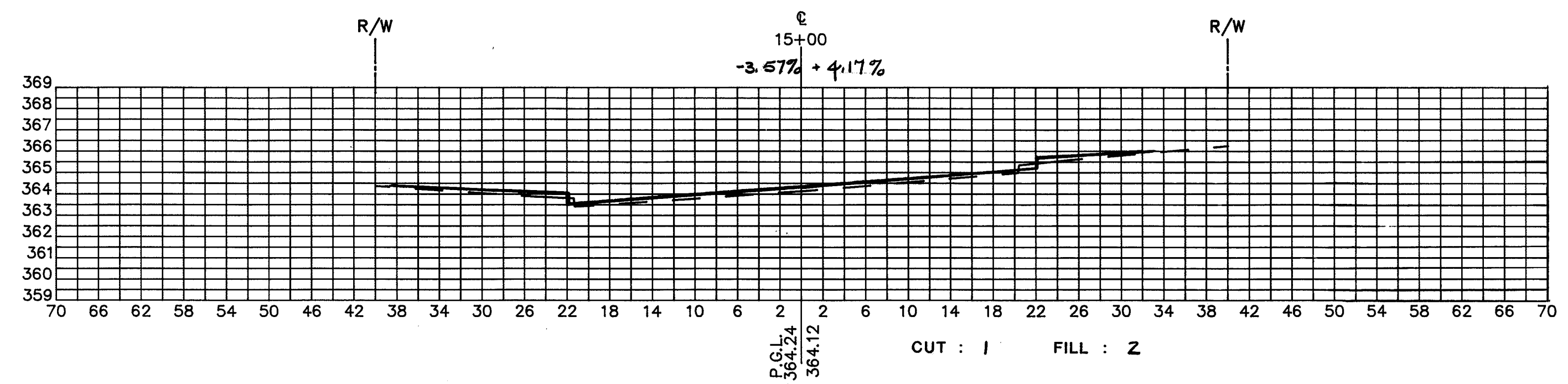
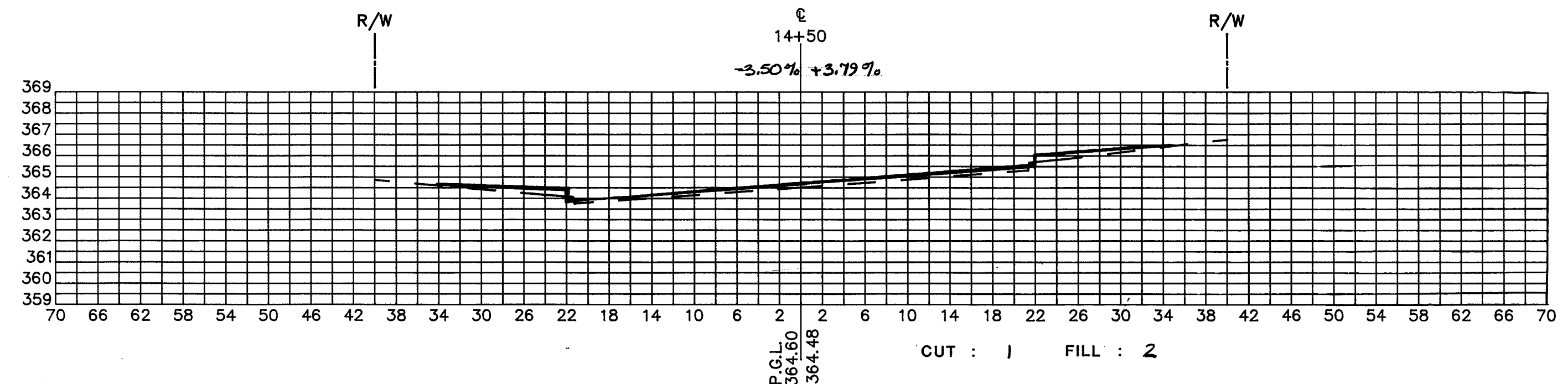
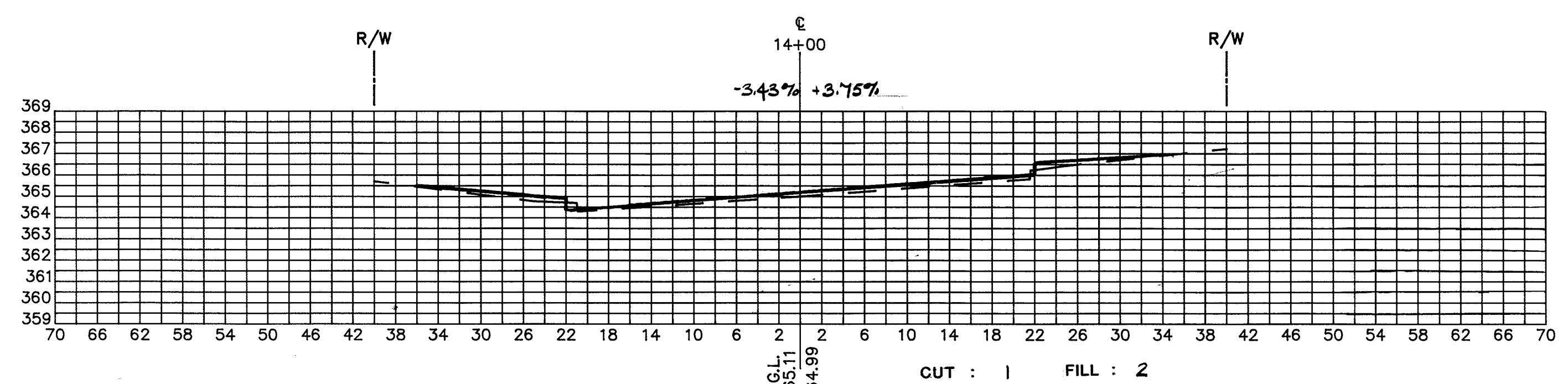
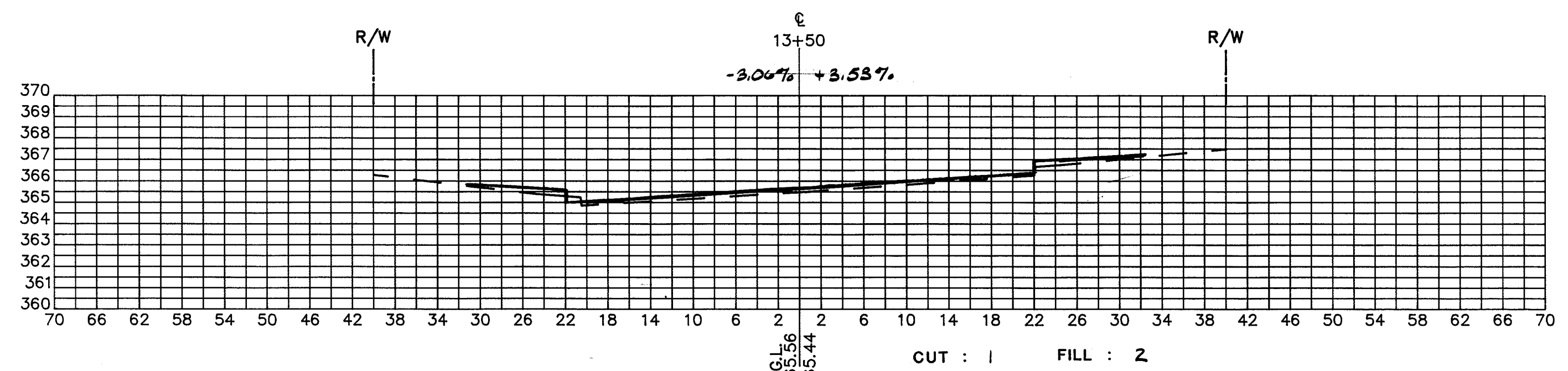
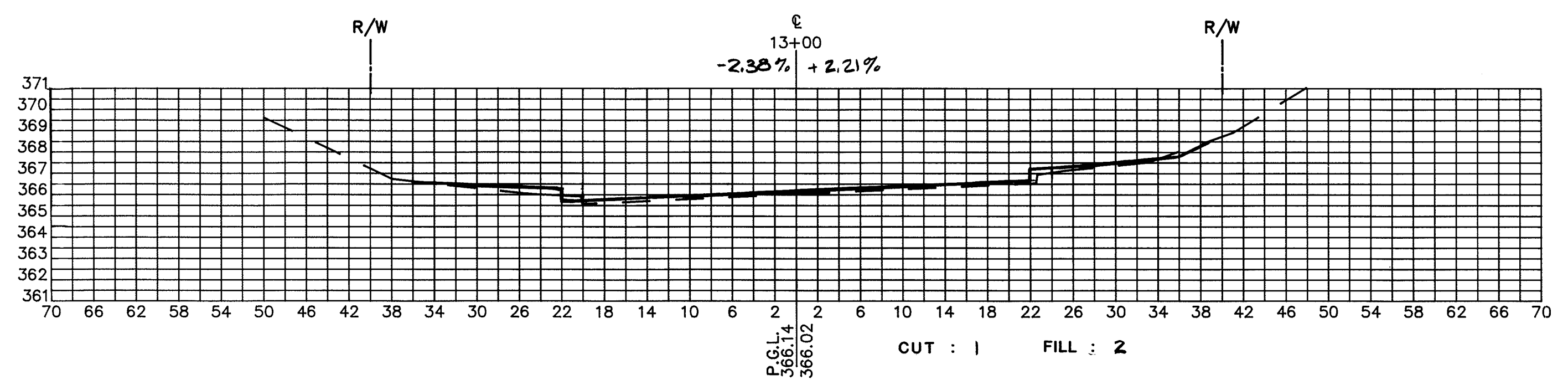
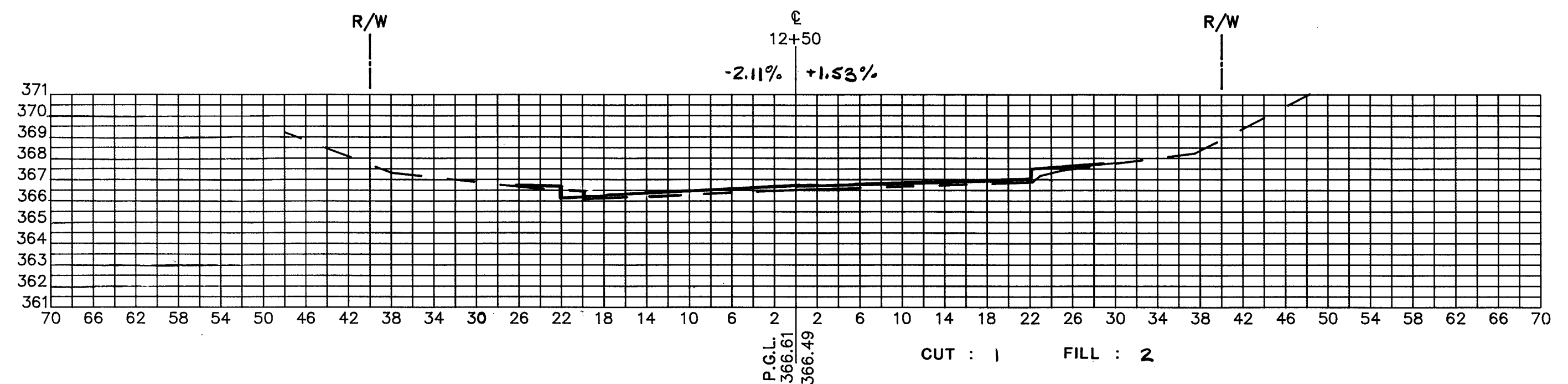
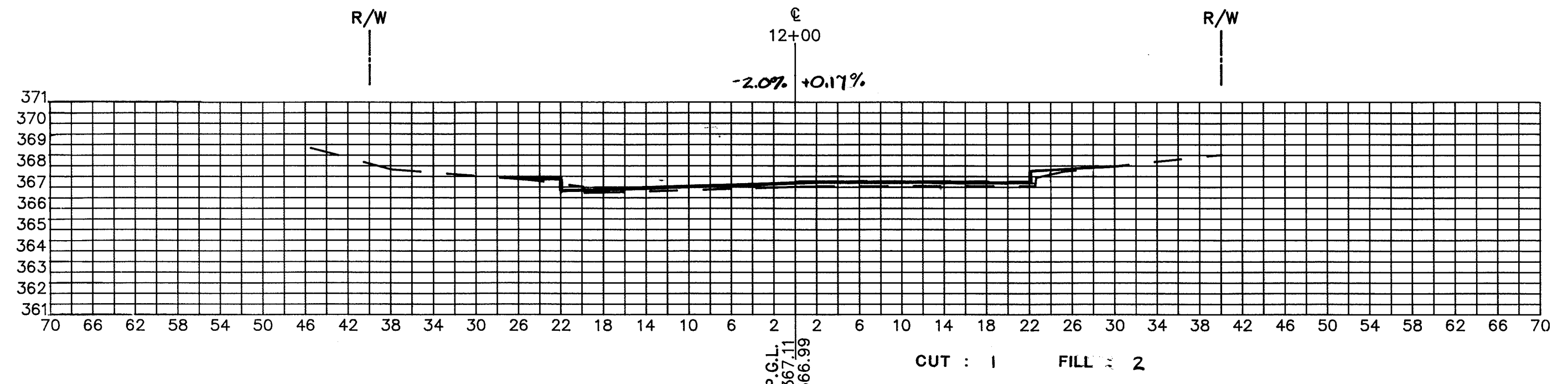
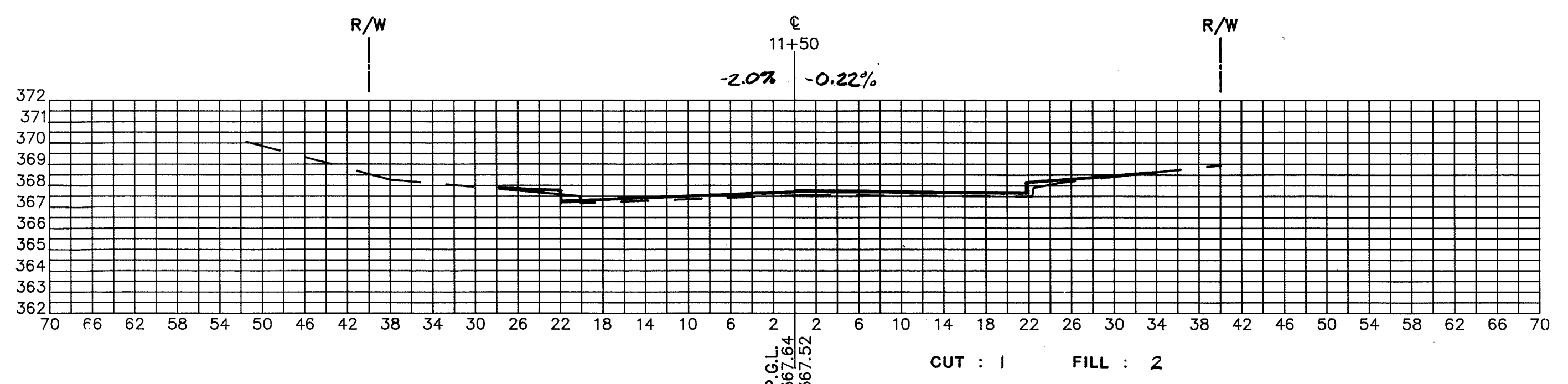
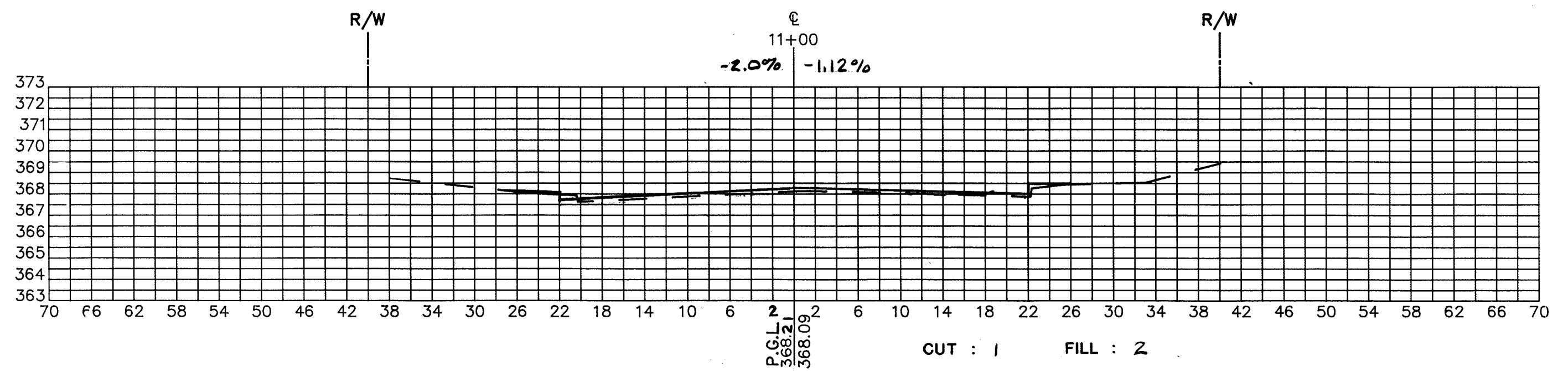


1091

| DESIGNED | | DATE | | REVISIONS | |
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| DATE | BY | DATE | BY | DESCRIPTION | |
| DATE | BY | DATE | BY | DESCRIPTION | |
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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION TO
 HOWARD COUNTY, MARYLAND

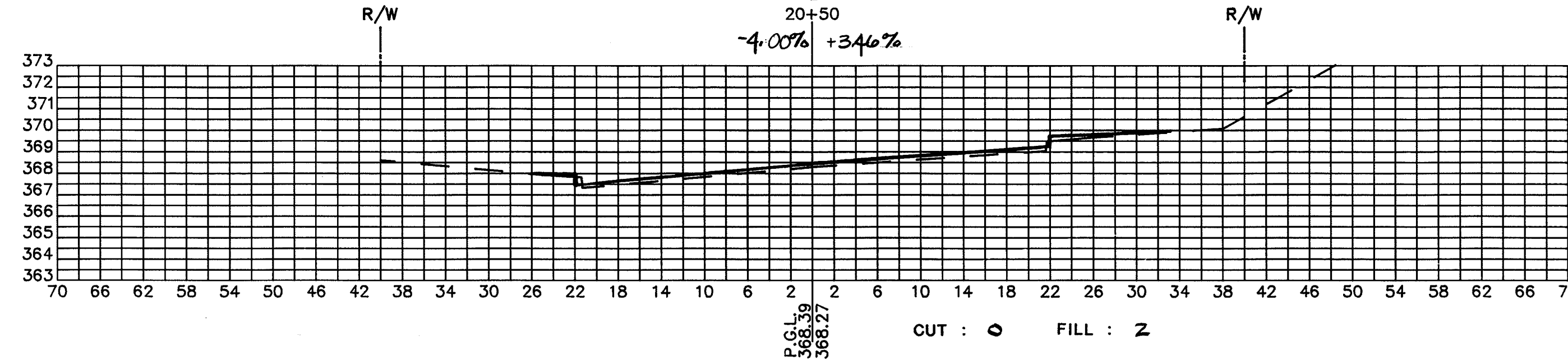
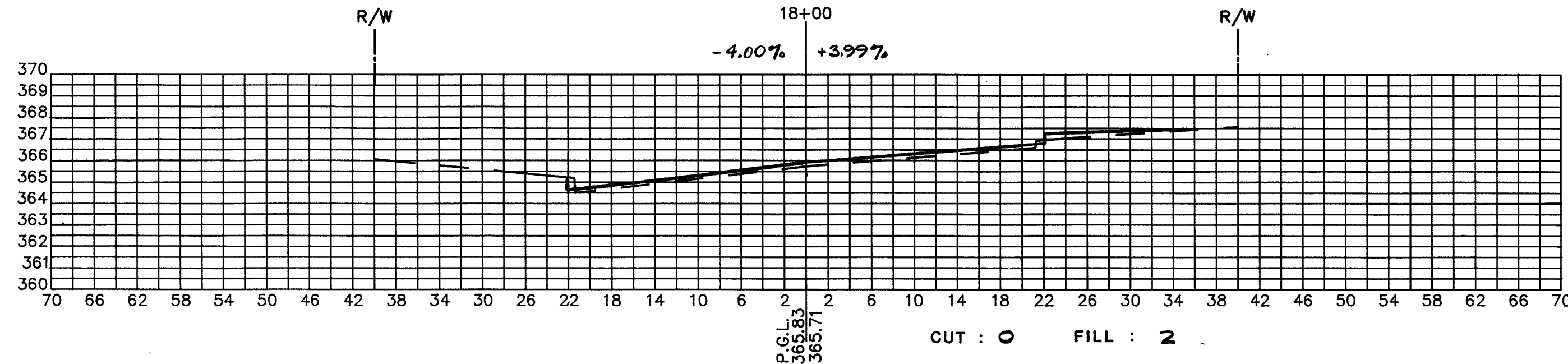
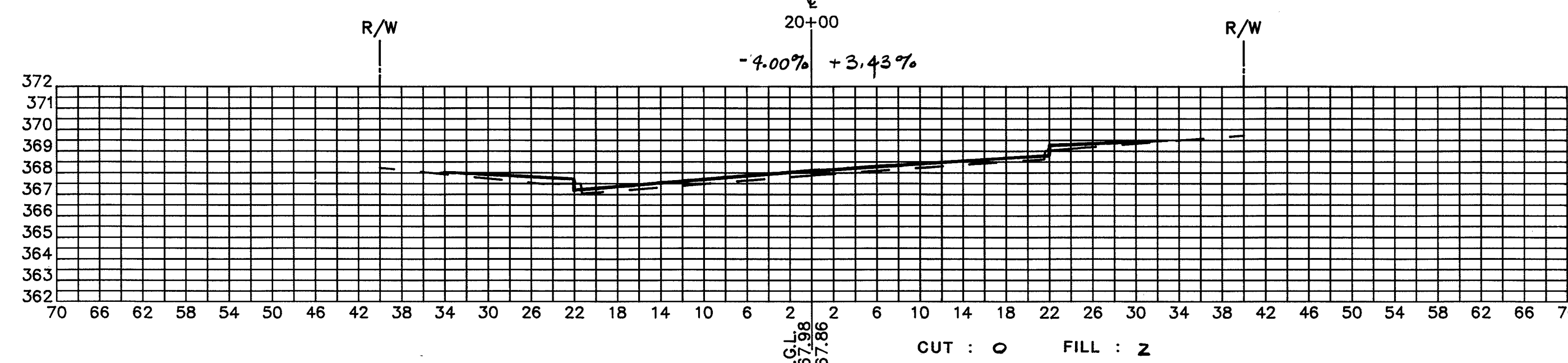
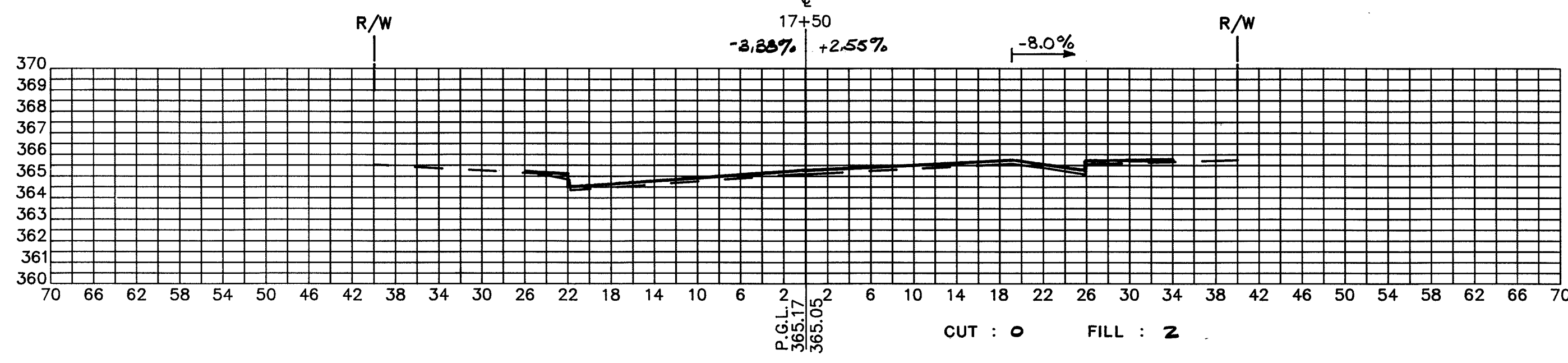
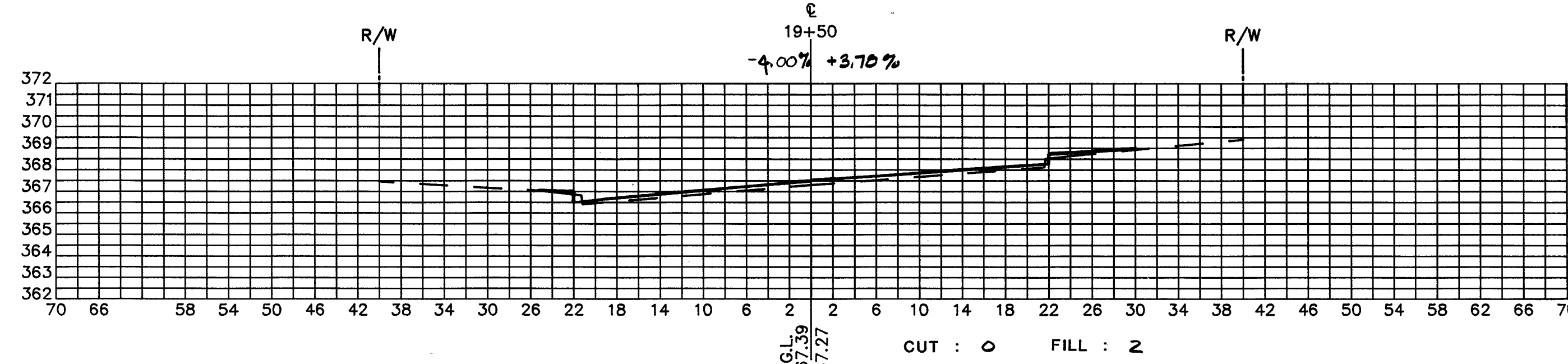
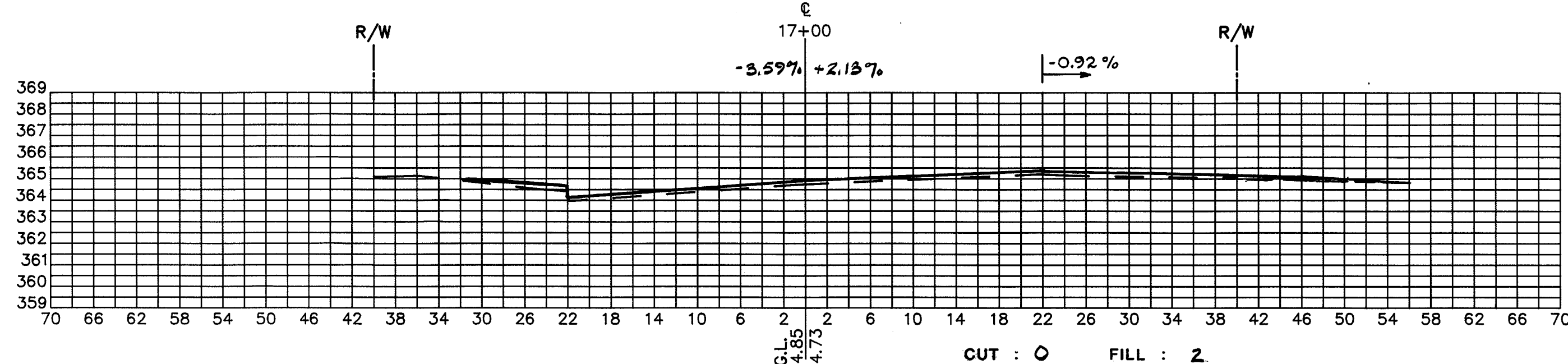
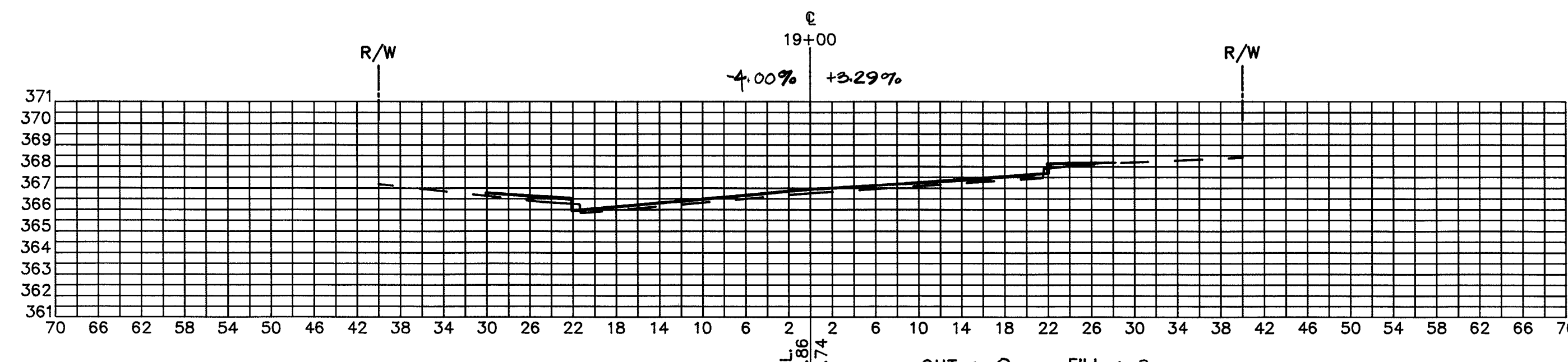
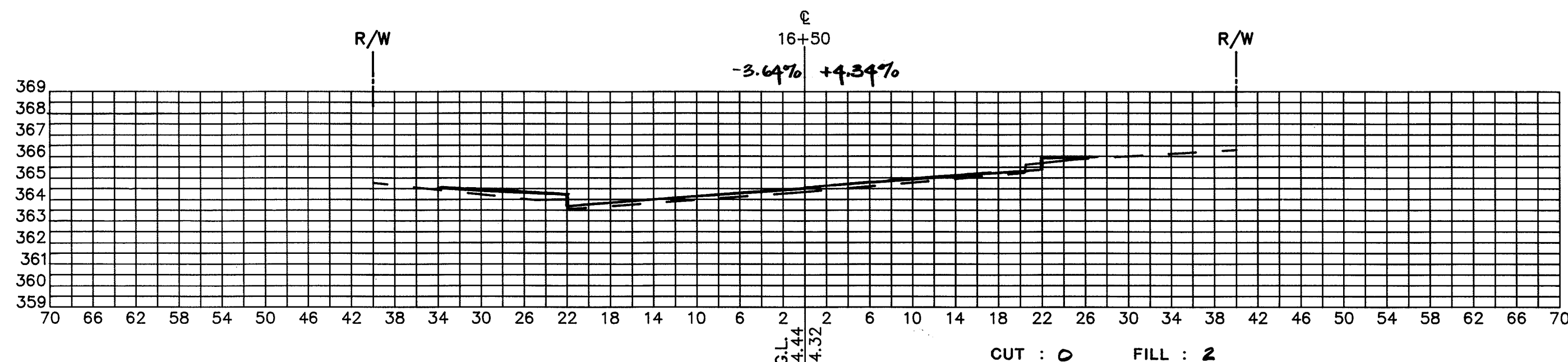
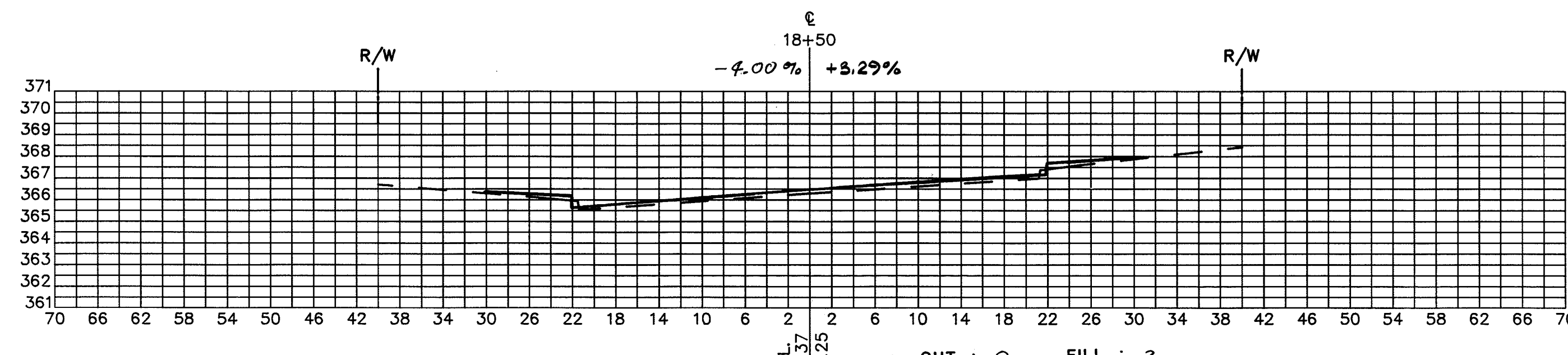
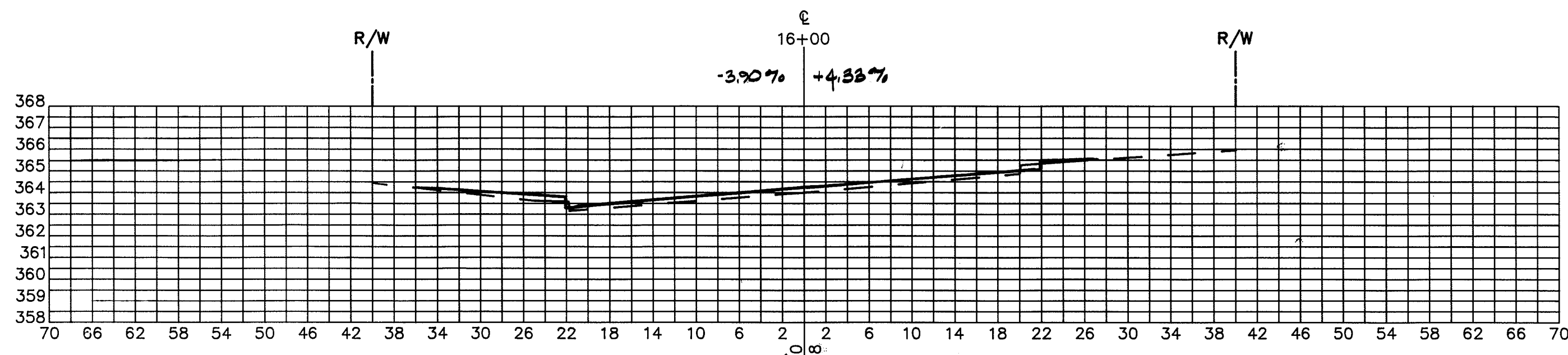


1091

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| DESIGNED | DATE | DATE | BY | DESCRIPTION |
| DRAWN | DATE | | | |
| CHECKED | DATE | | | |
| APPROVED | DATE | | | |

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION TO
 HOWARD COUNTY, MARYLAND

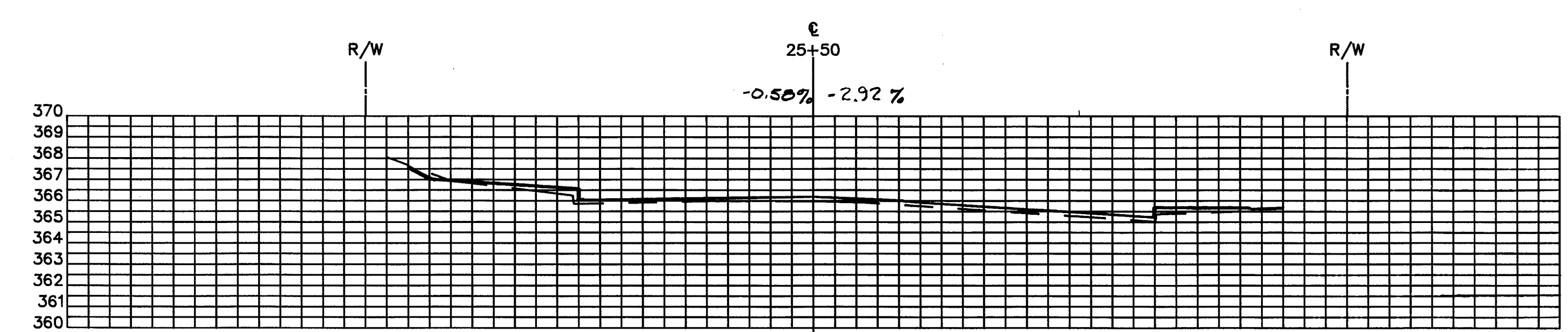
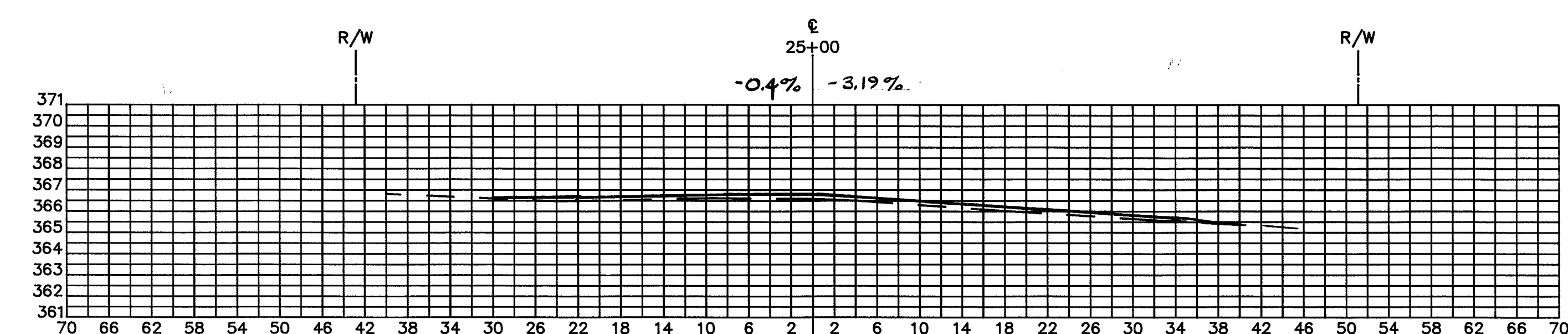
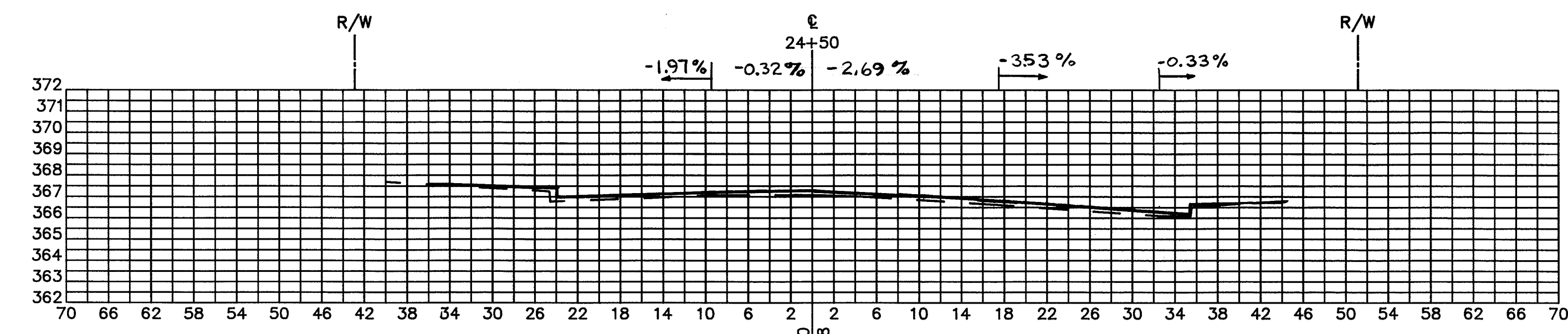
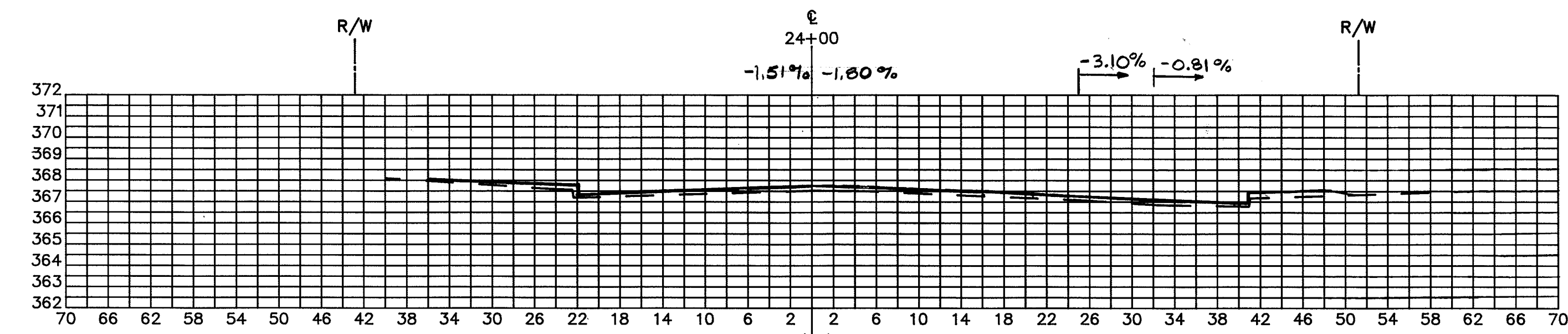
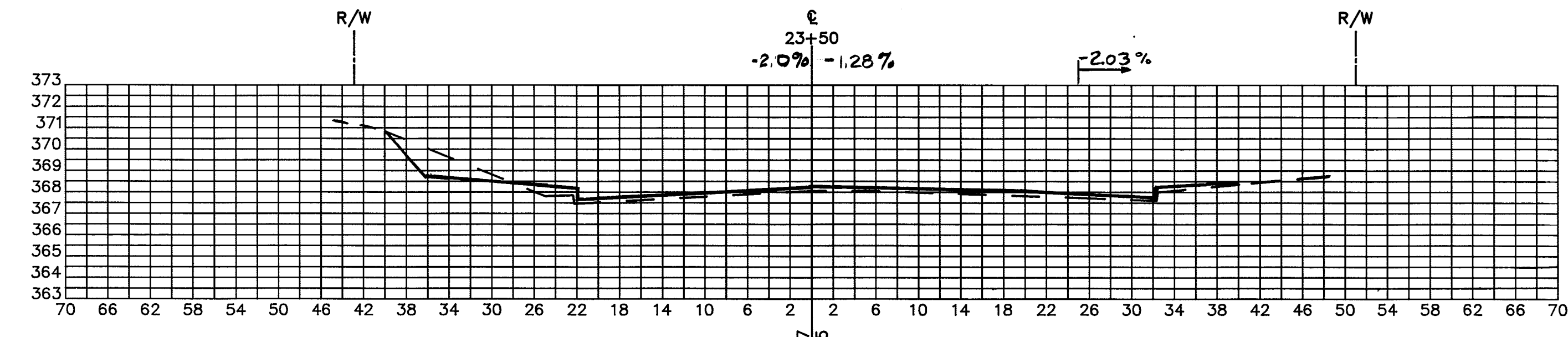
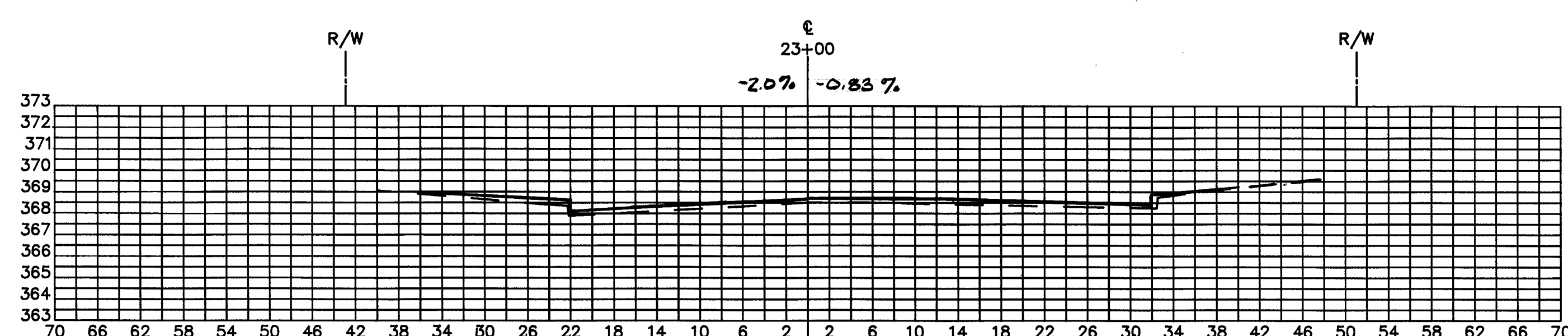
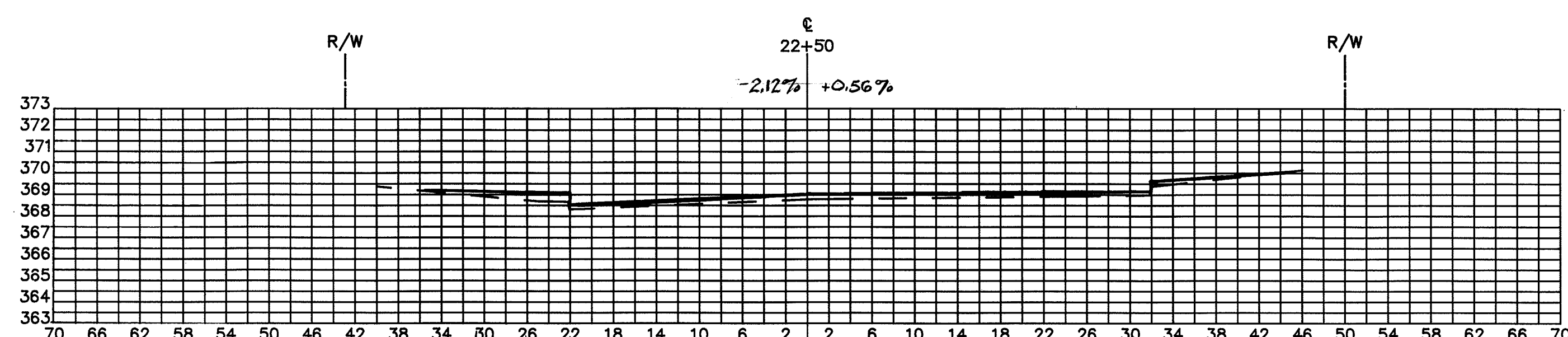
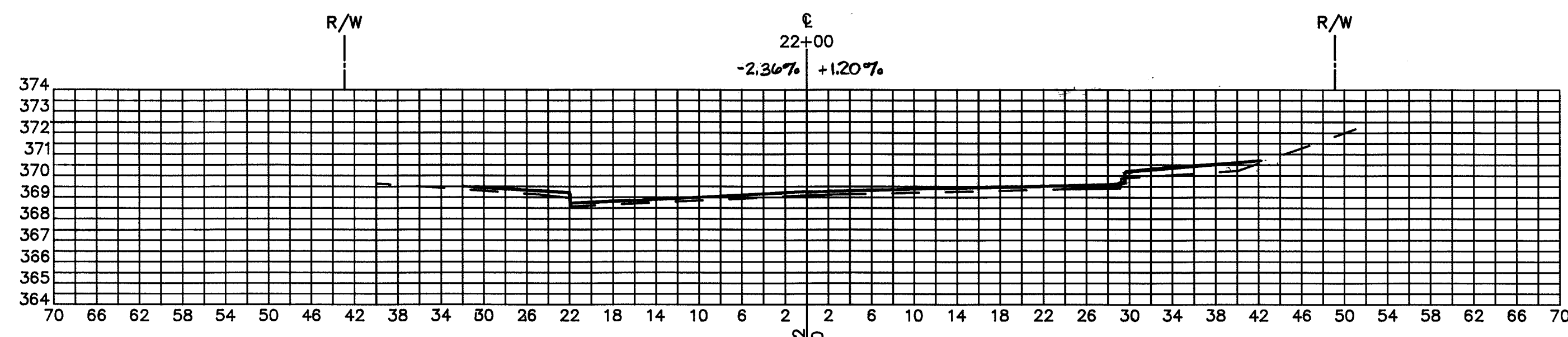
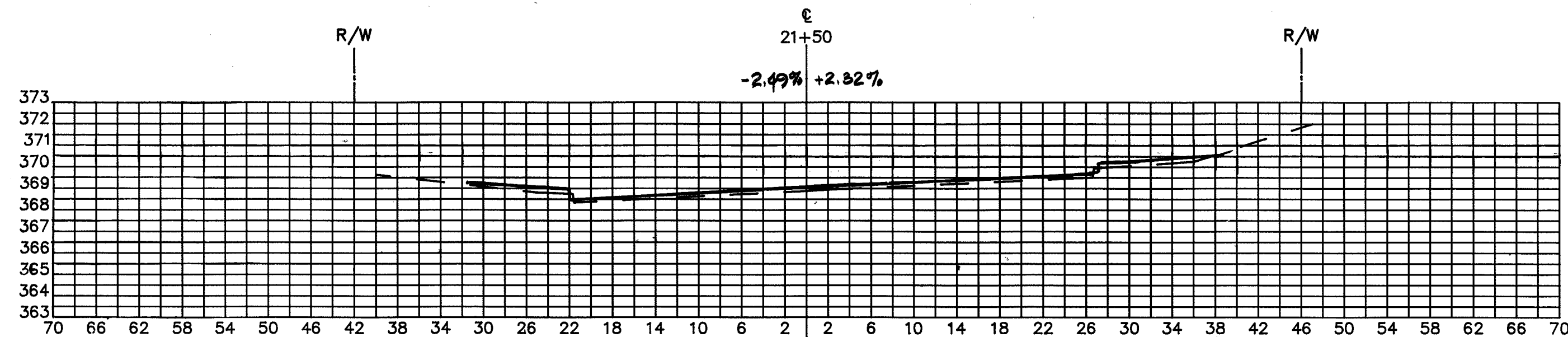
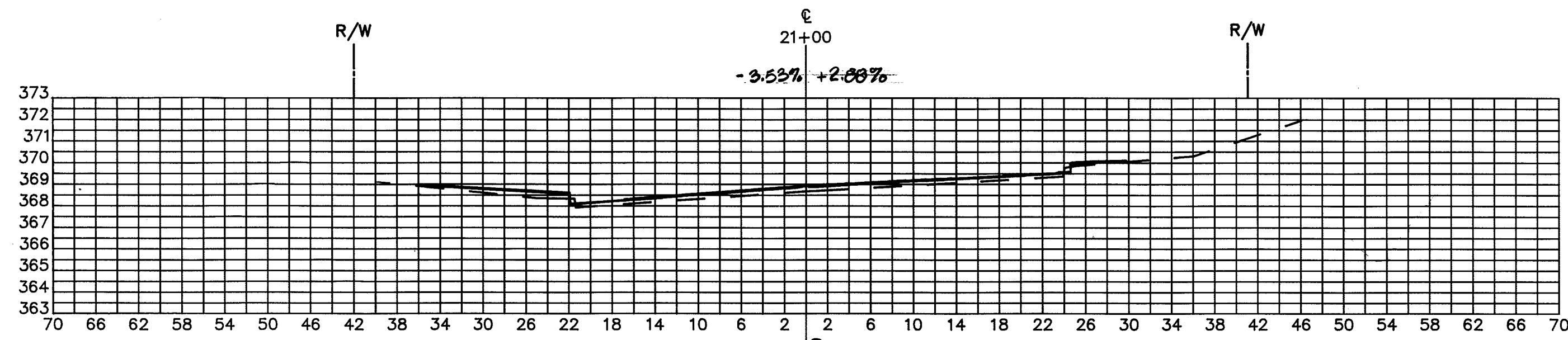


1601

| | | REVISIONS | | | |
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| DESIGNED | DATE | DATE | BY | DESCRIPTION | |
| DRAWN | DATE | | | | |
| CHECKED | DATE | | | | |
| APPROVED | DATE | | | | |

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 481-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 16+00 TO 20+50
 HOWARD COUNTY, MARYLAND

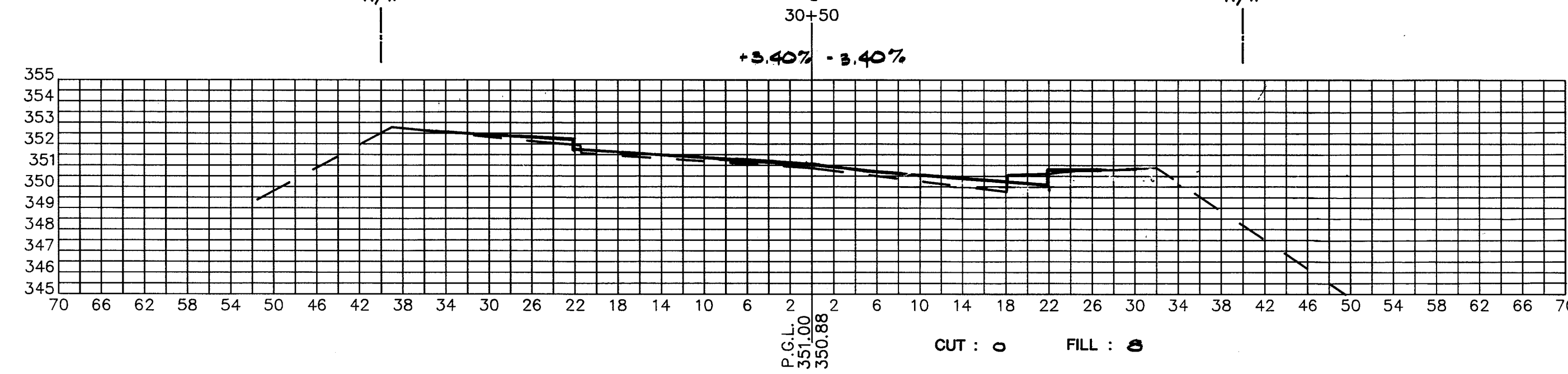
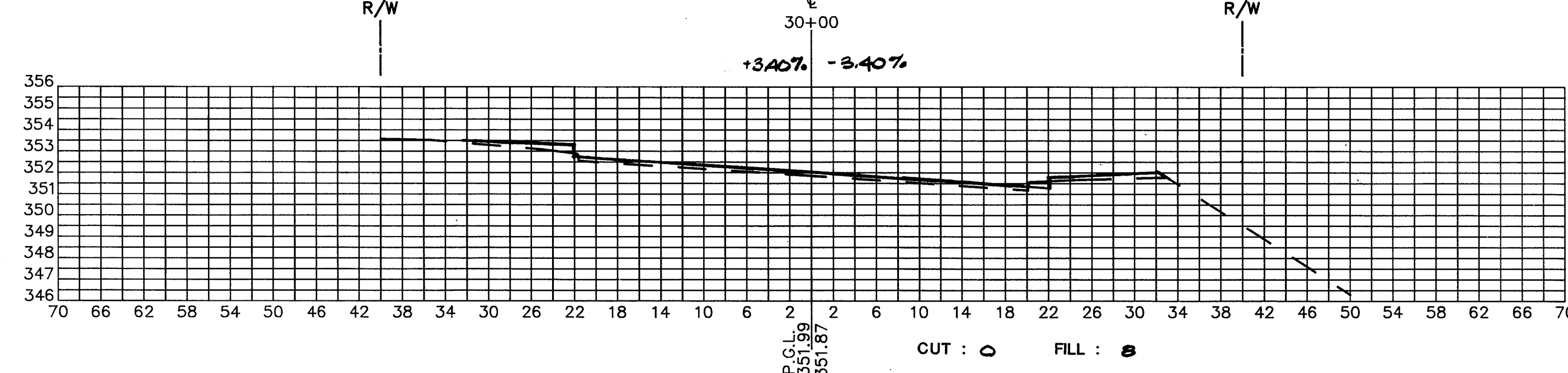
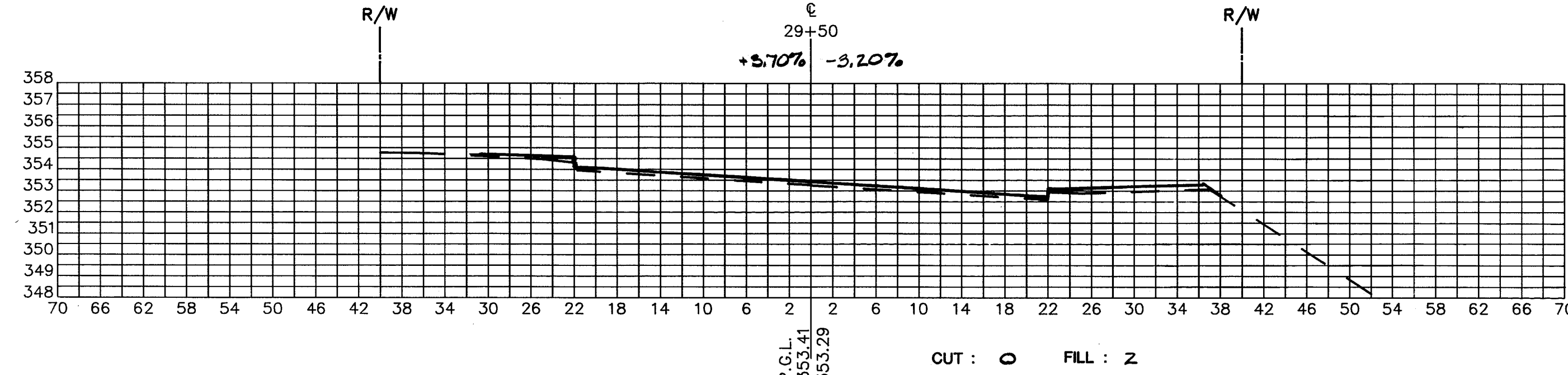
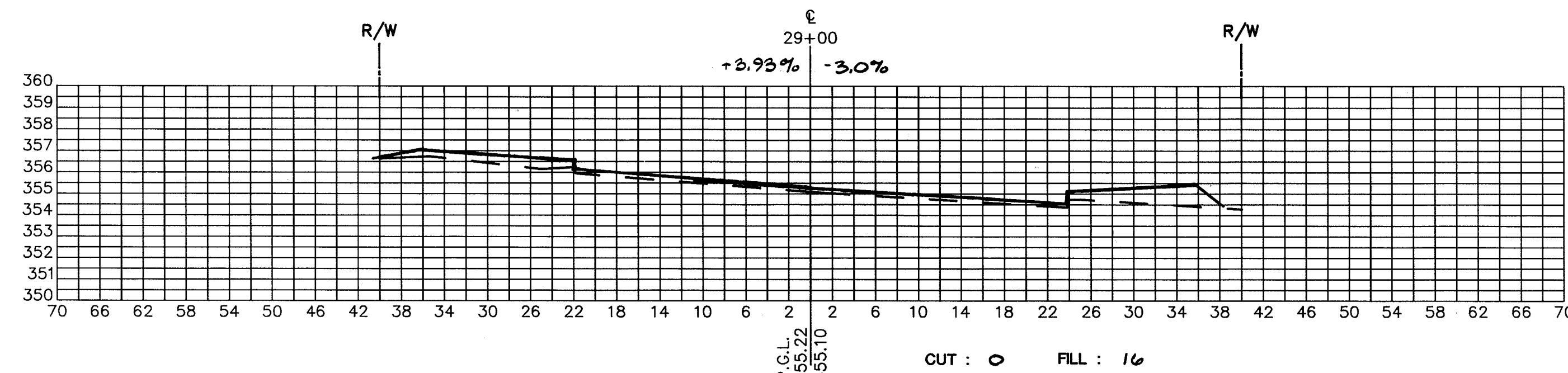
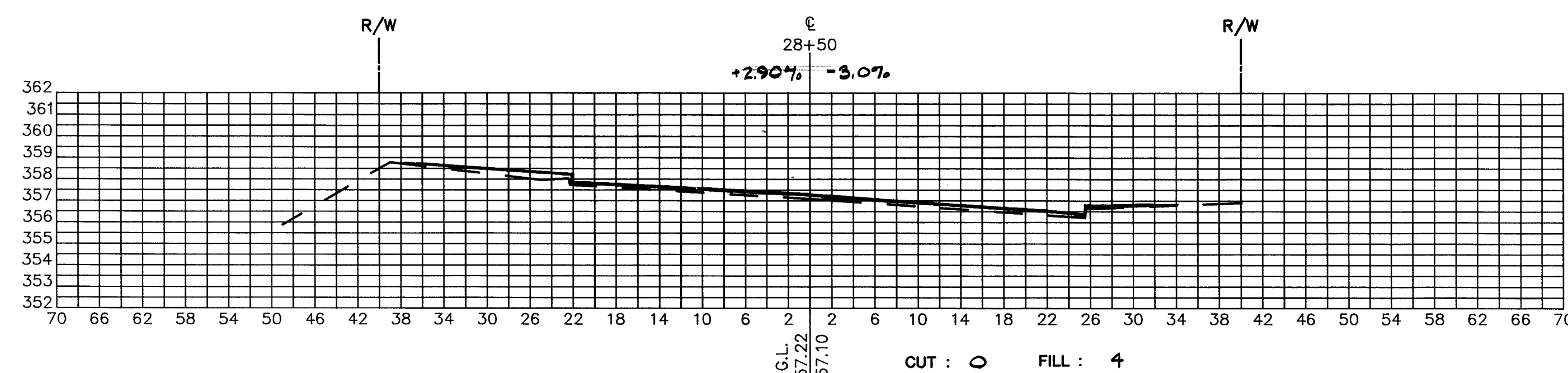
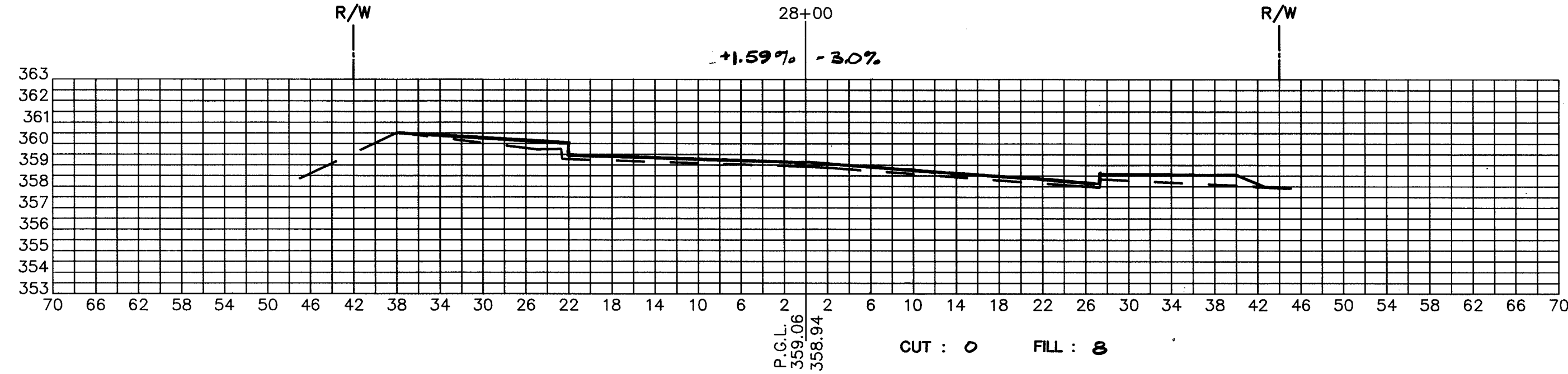
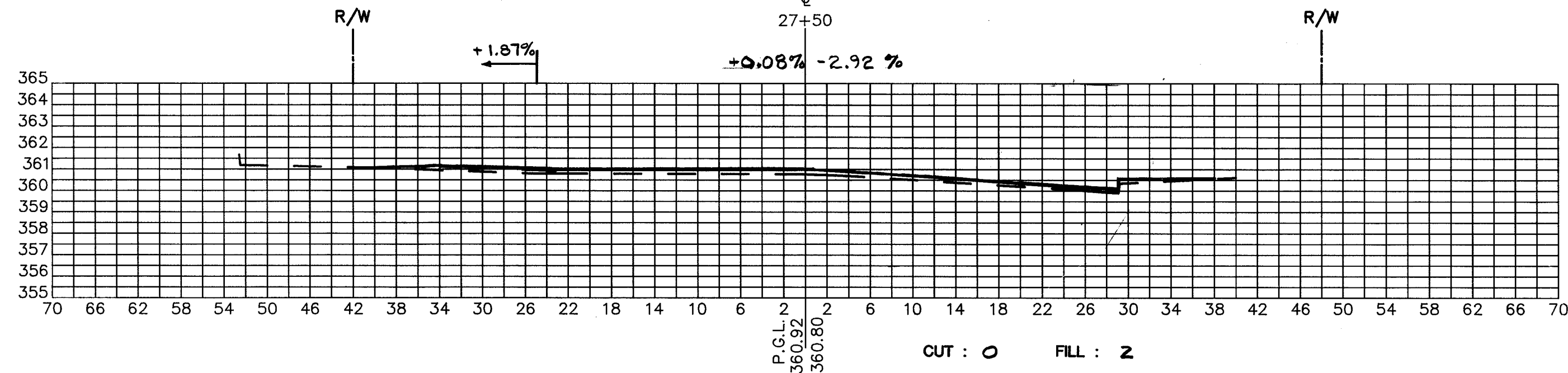
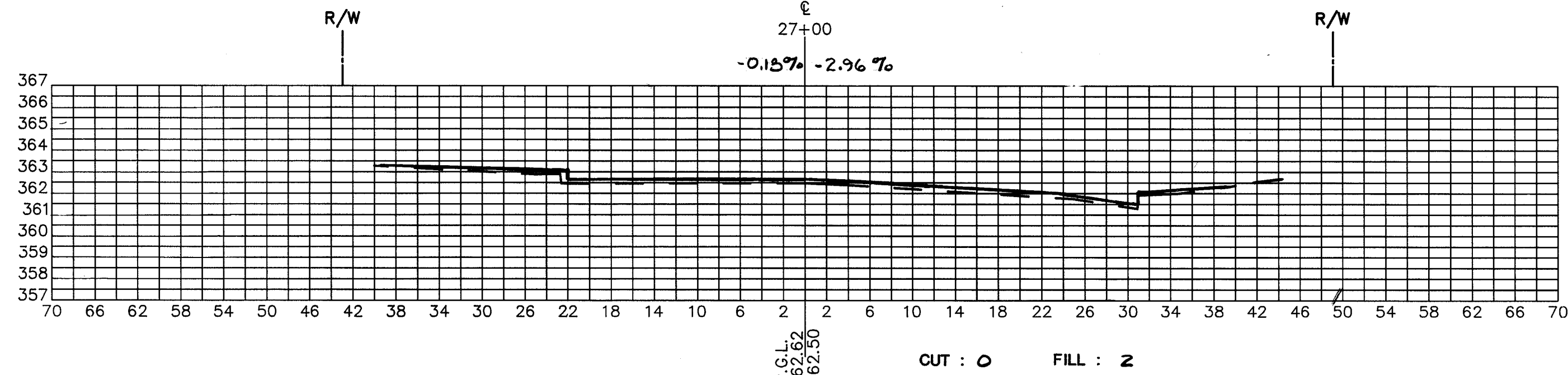
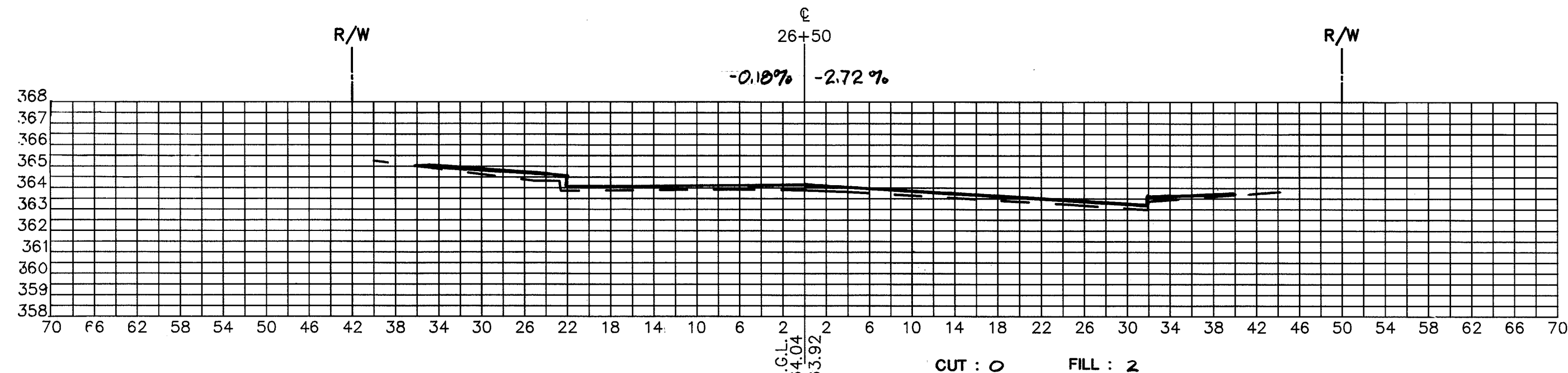
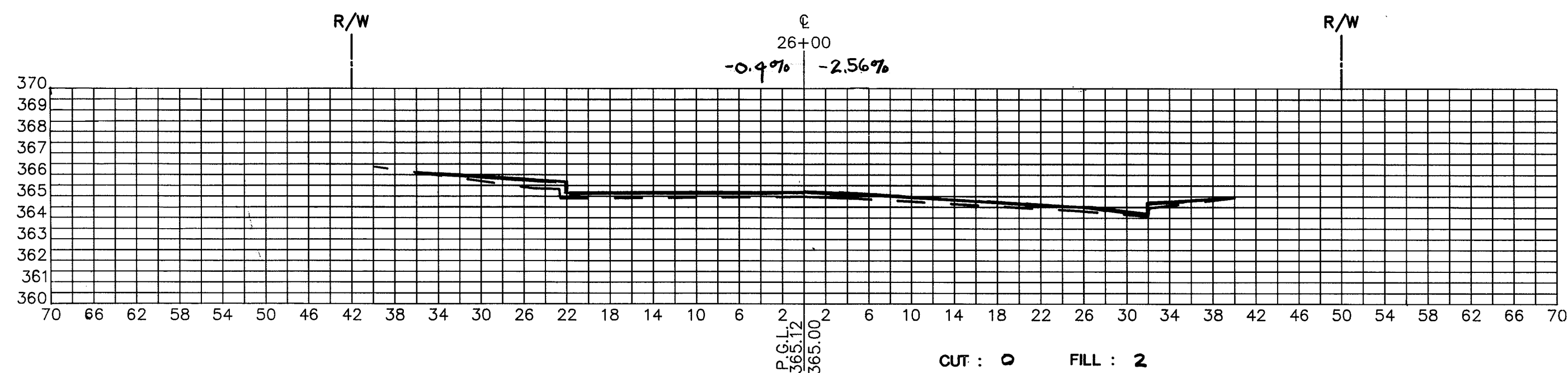


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| DESIGNED | DATE | DATE | DESCRIPTION |
| DRAWN | DATE | | |
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| APPROVED | DATE | | |

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 21+00 TO 25+50
 HOWARD COUNTY, MARYLAND

1601



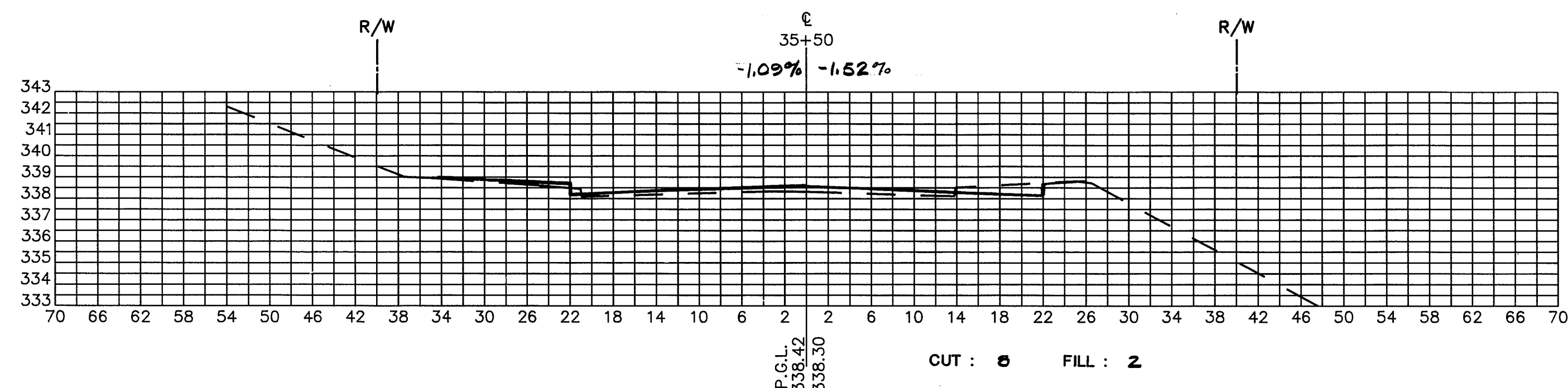
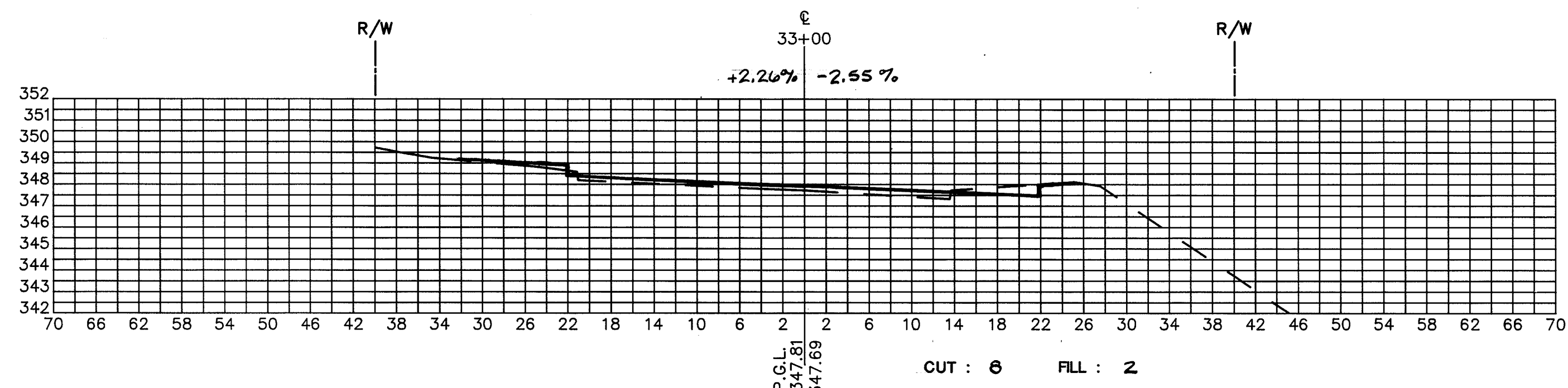
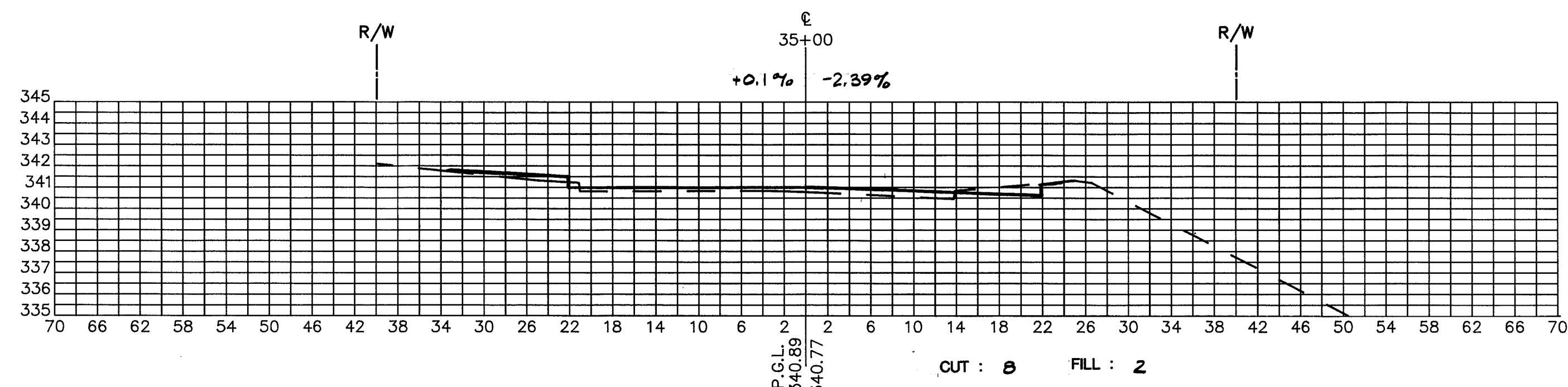
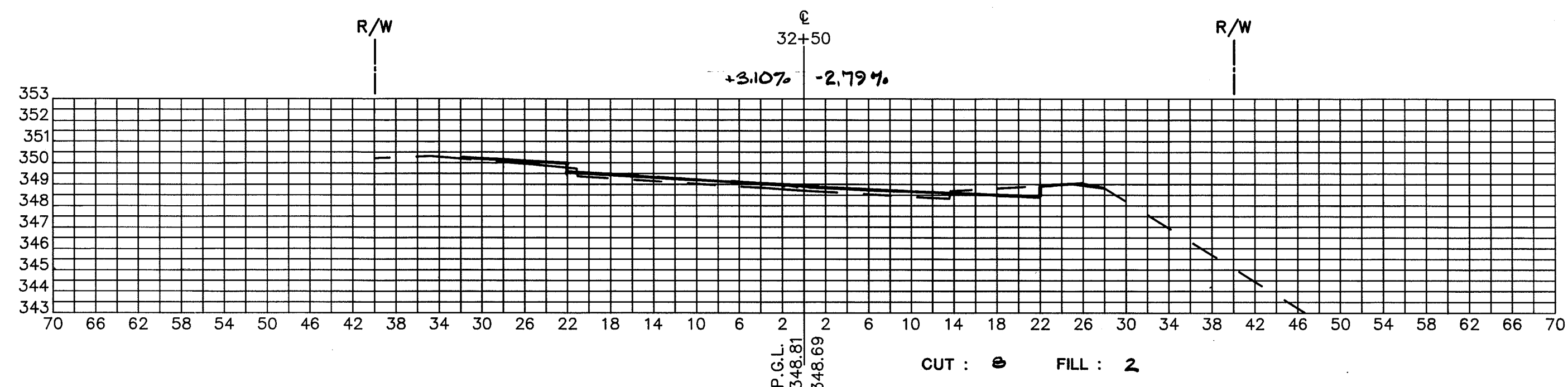
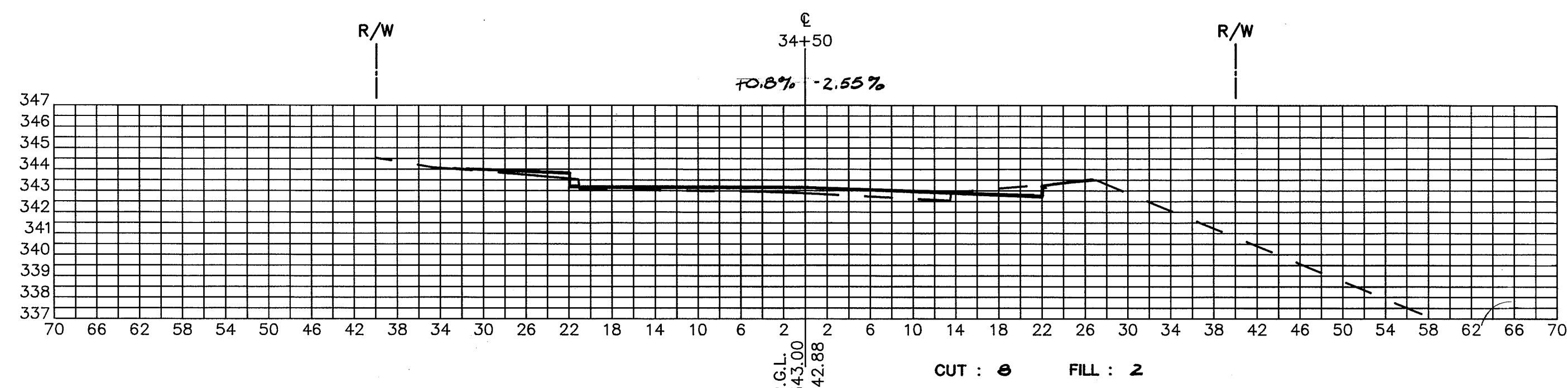
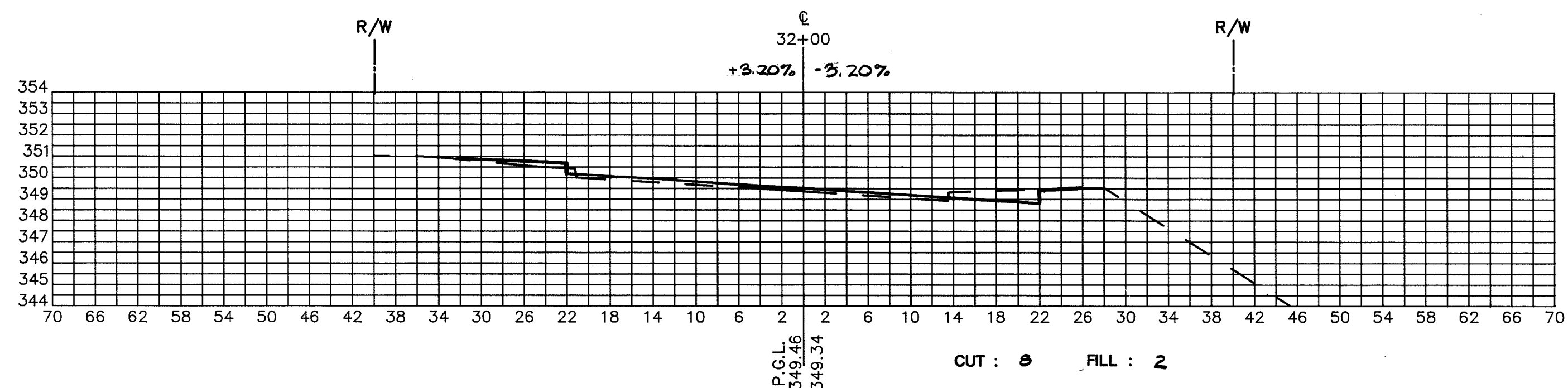
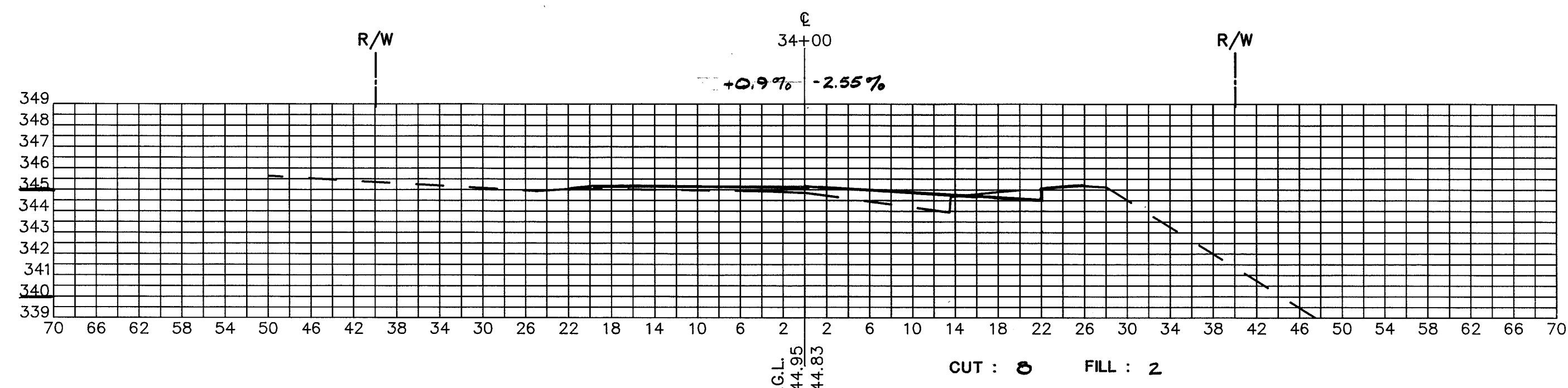
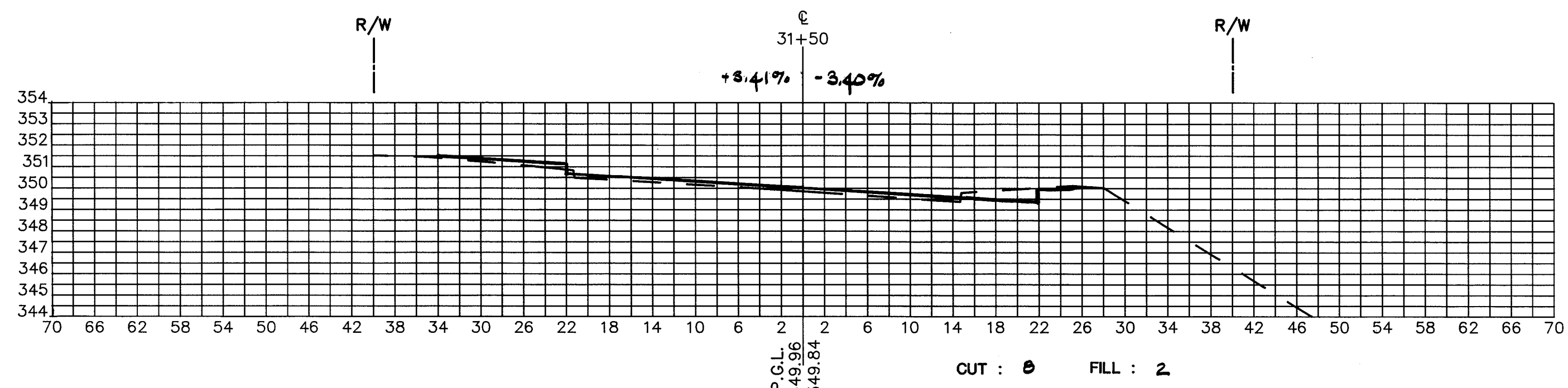
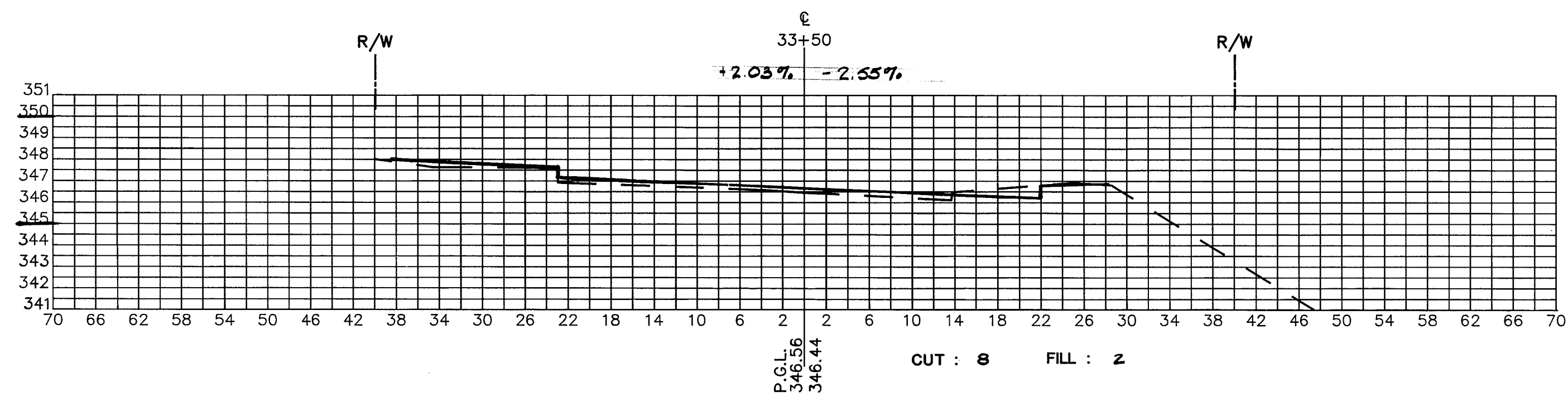
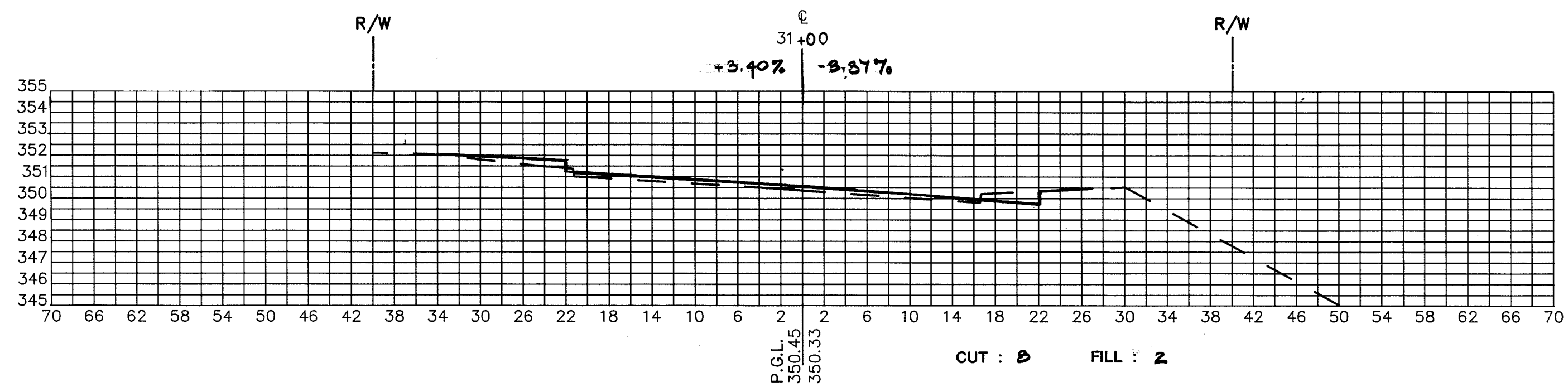
1601

DESIGNED _____ DATE _____
 DRAWN _____ DATE _____
 CHECKED _____ DATE _____
 APPROVED _____ DATE _____

| REVISIONS | | | |
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| DATE | BY | DESCRIPTION | |
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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 26+00 TO 30+50
 HOWARD COUNTY, MARYLAND



1601

| | | REVISIONS | | |
|----------|------|-----------|----|-------------|
| DESIGNED | DATE | DATE | BY | DESCRIPTION |
| DRAWN | DATE | | | |
| CHECKED | DATE | | | |
| APPROVED | DATE | | | |

ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS * PLANNERS * SURVEYORS

3458 ELLICOTT CENTER DRIVE SUITE 101
ELLICOTT CITY, MARYLAND 21043
BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS

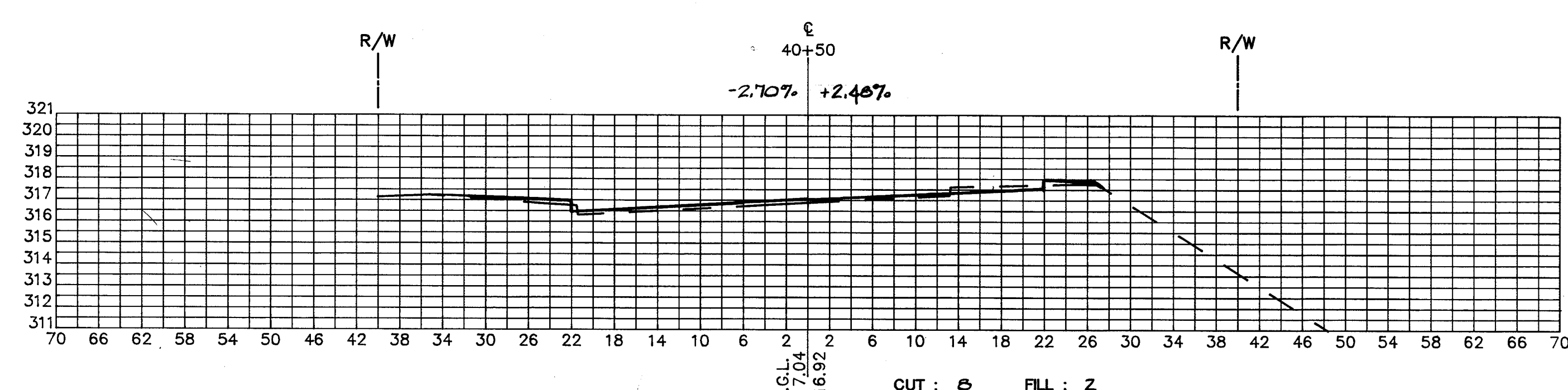
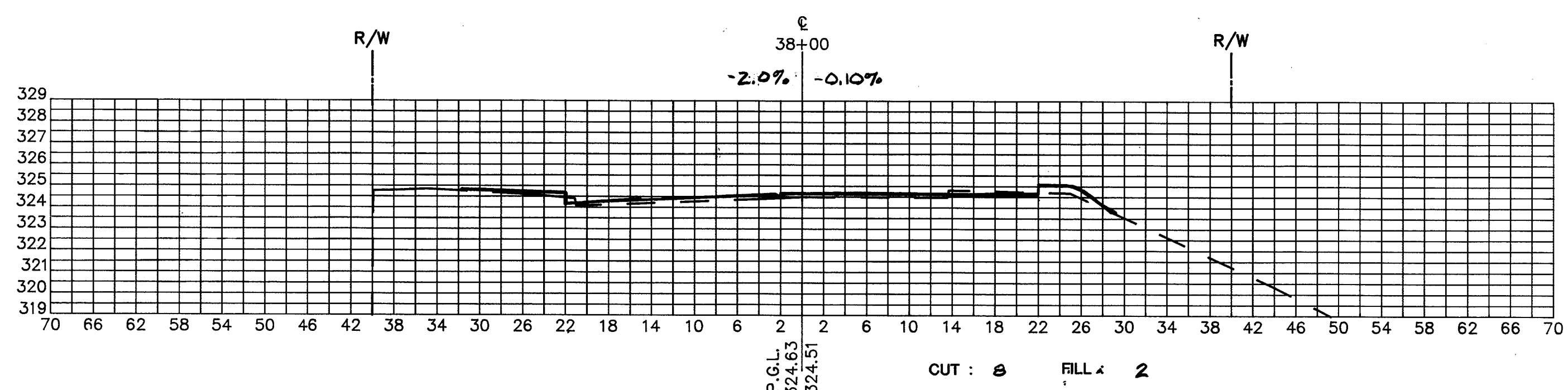
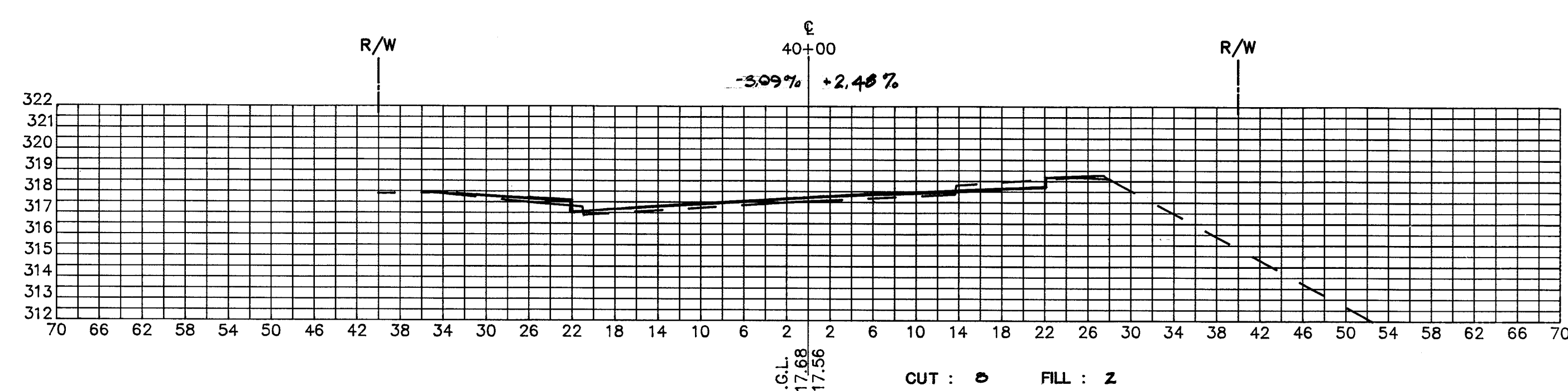
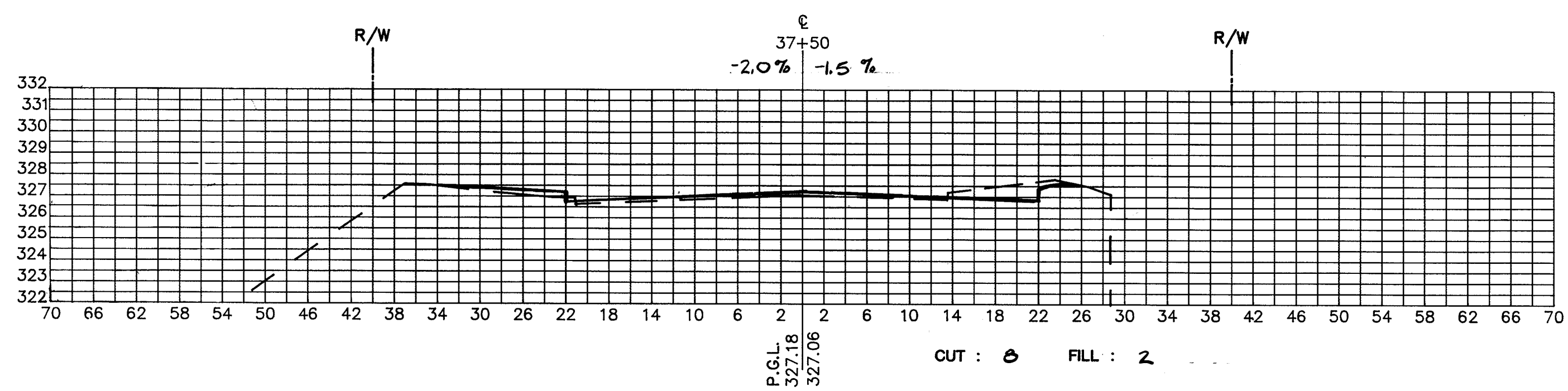
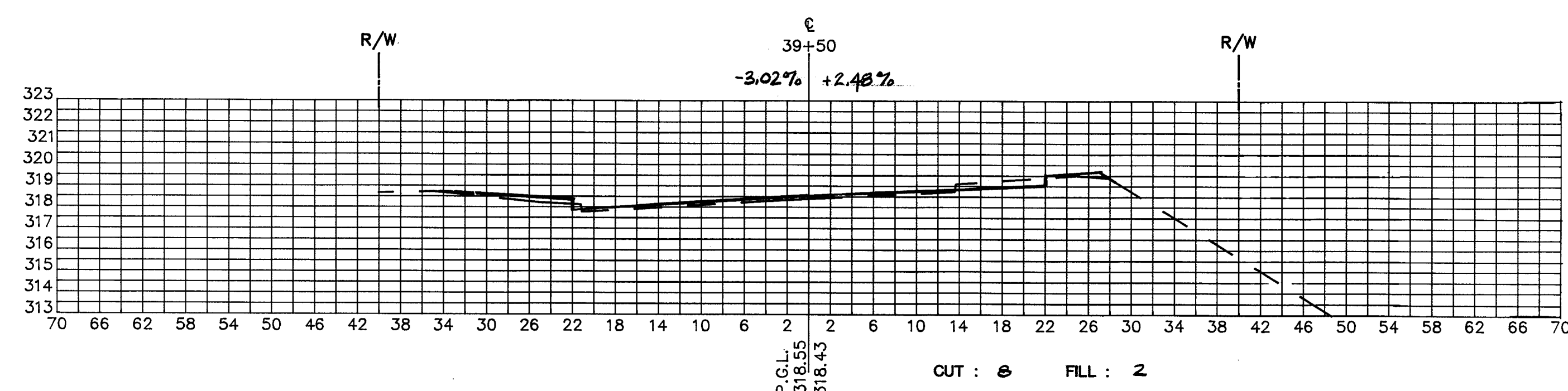
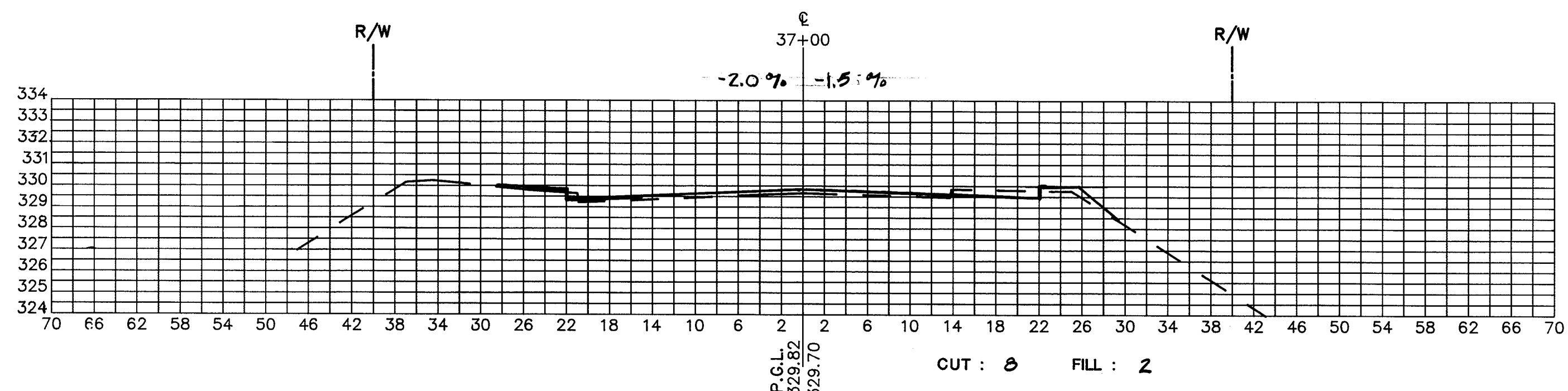
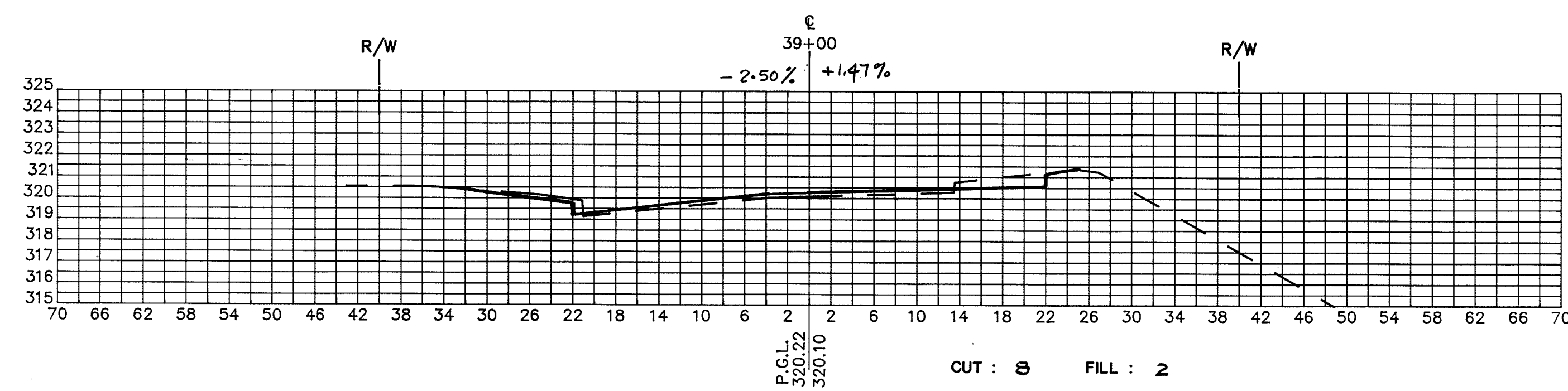
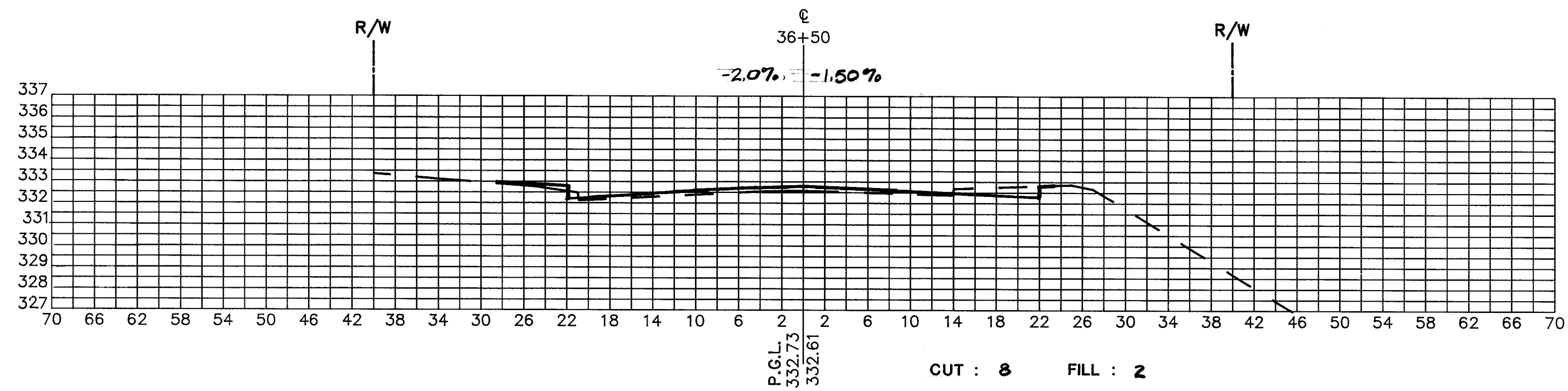
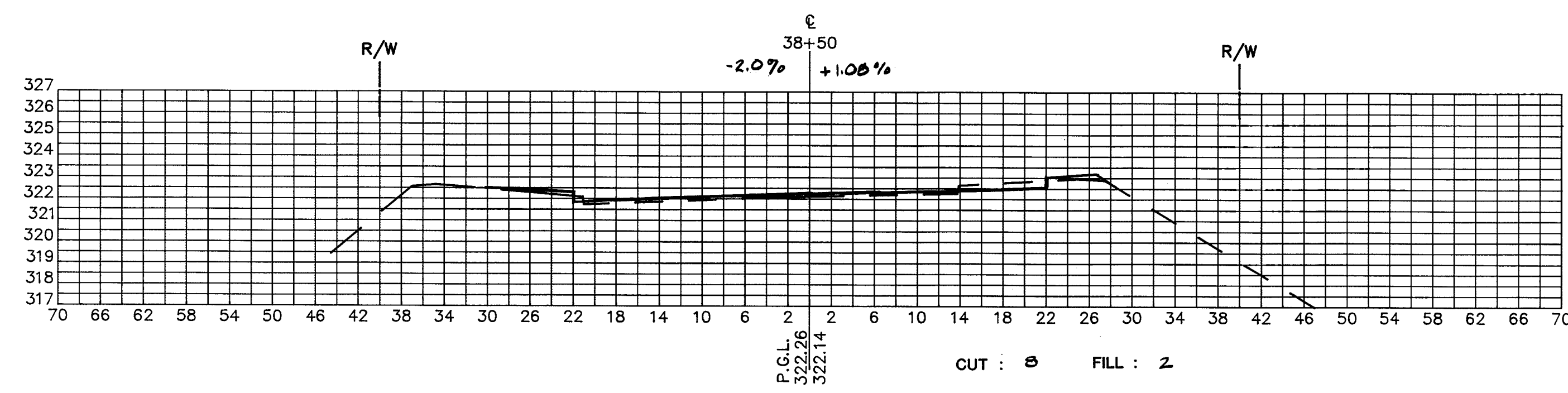
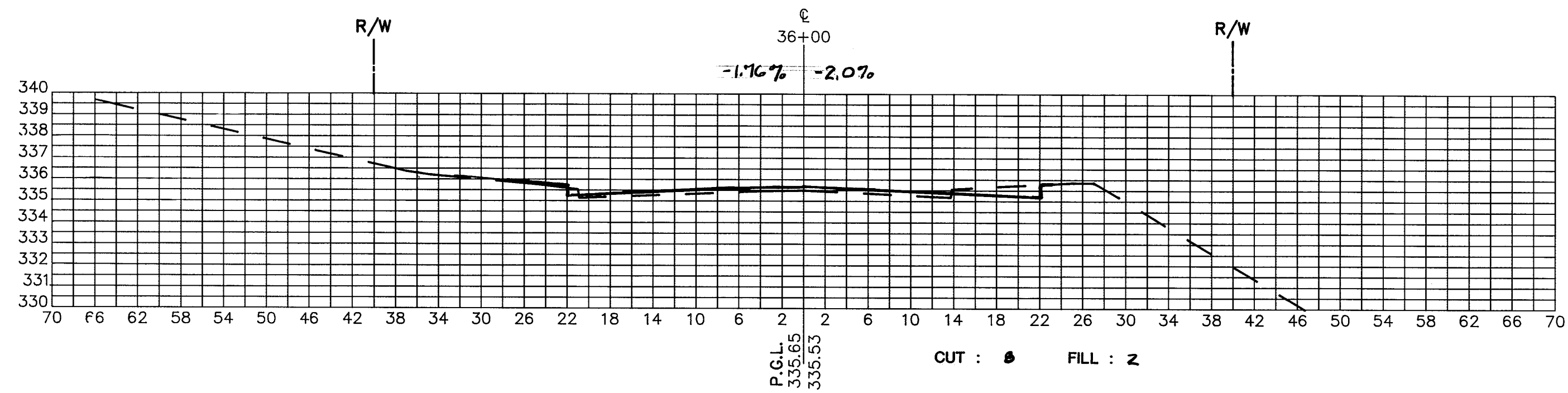
CROSS SECTIONS - STATION 31+00 TO 35+50
HOWARD COUNTY, MARYLAND

SCALE: HORIZ. 1"=10'
VERT. 1"=5'

CAPITAL PROJECT NO. J-4095

DATE: 12-00

SHEET: 7 of 24



DESIGNED _____ DATE _____
 DRAWN _____ DATE _____
 CHECKED _____ DATE _____
 APPROVED _____ DATE _____

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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 36+00 TO 40+50
 HOWARD COUNTY, MARYLAND

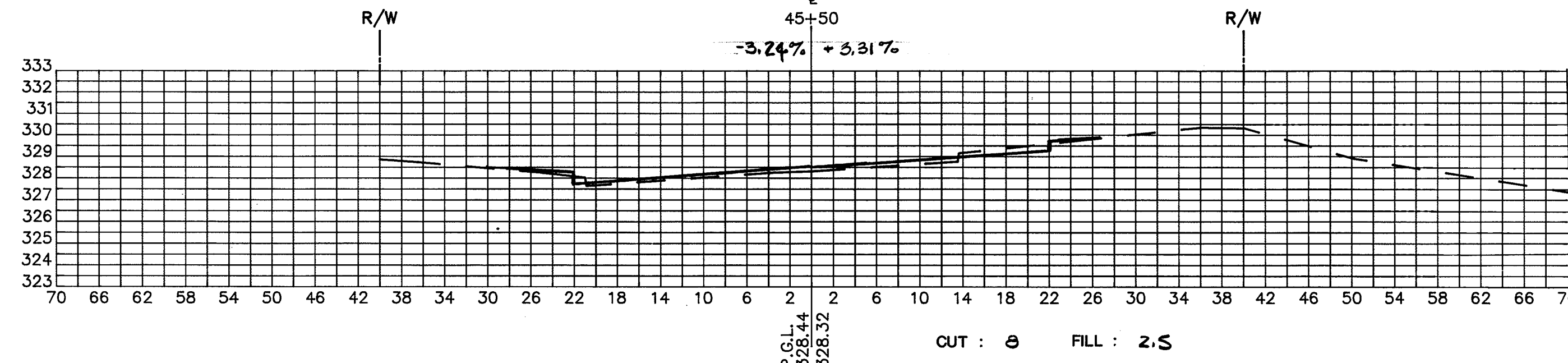
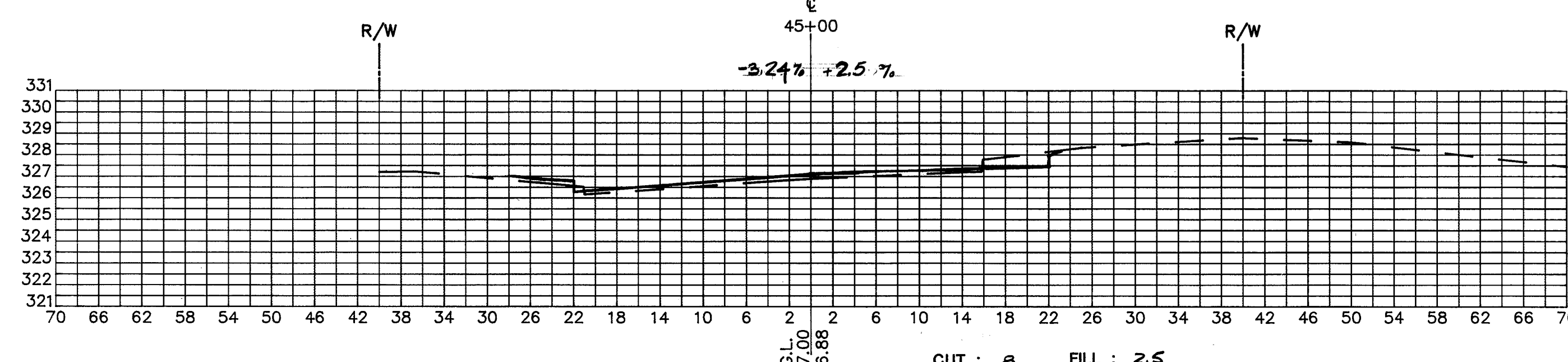
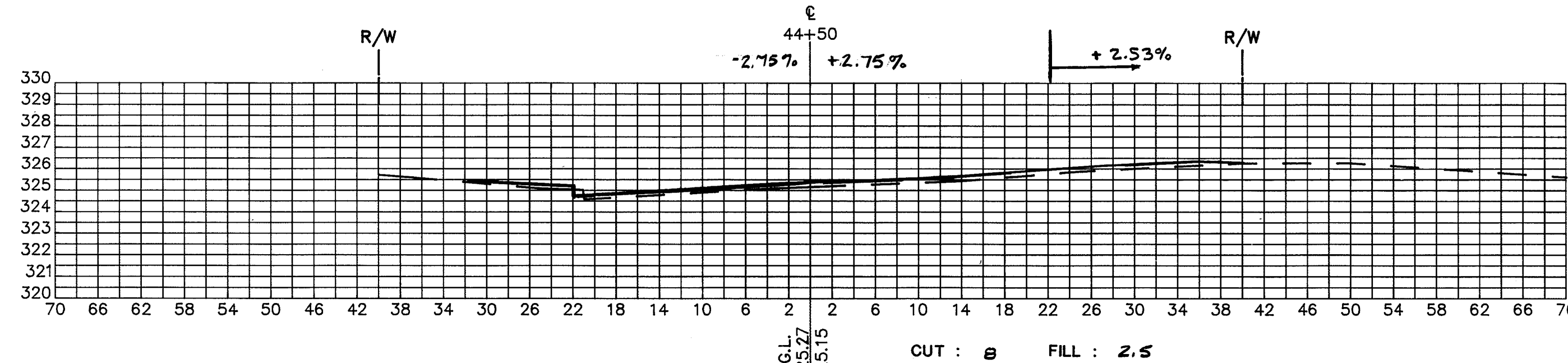
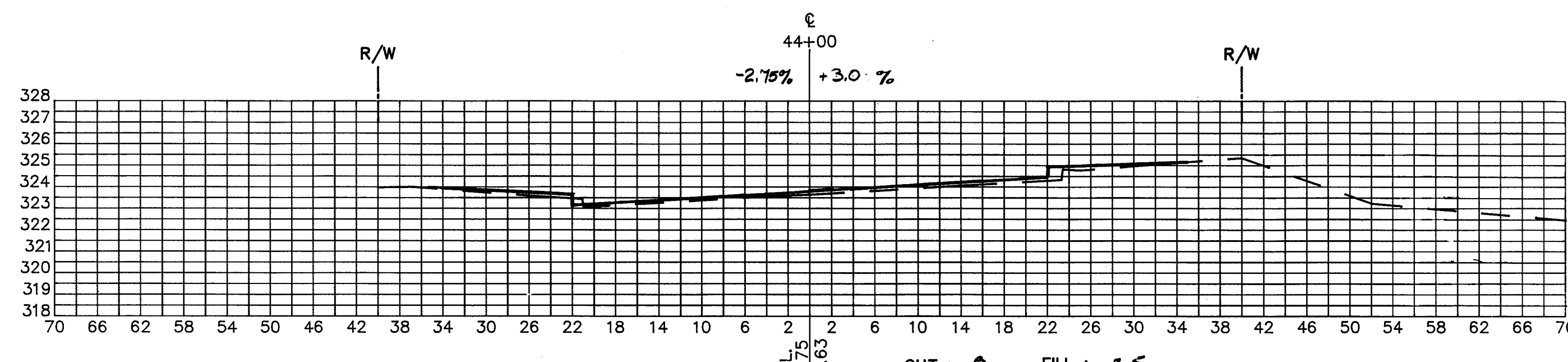
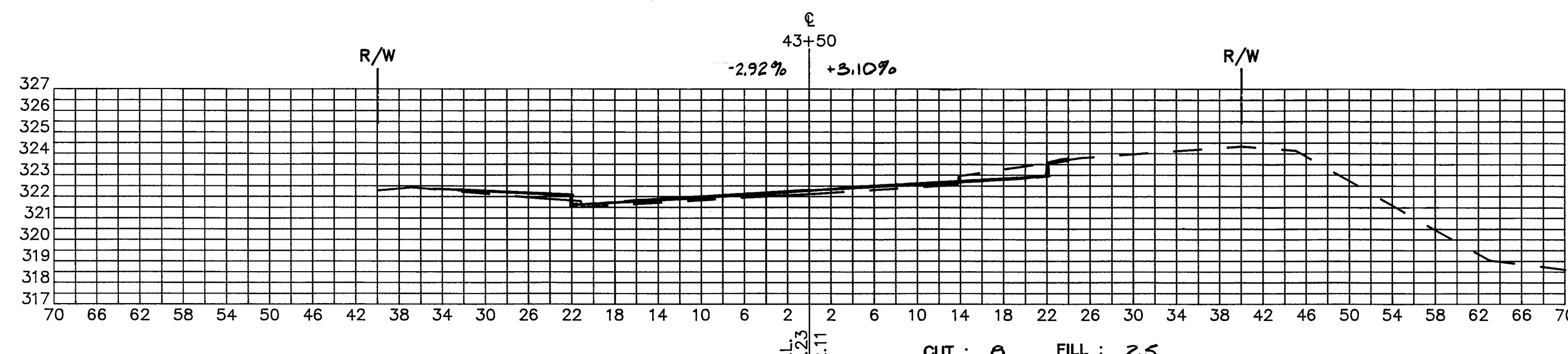
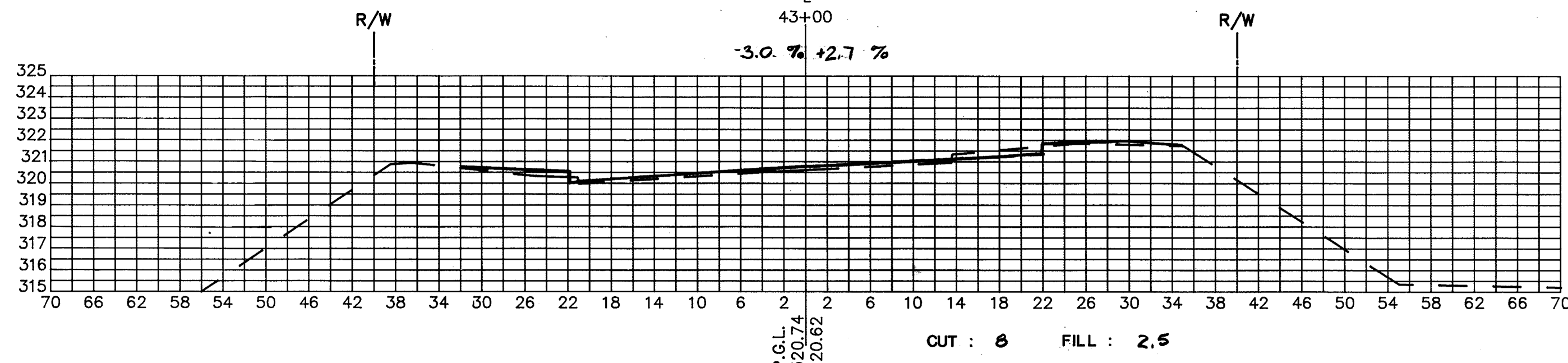
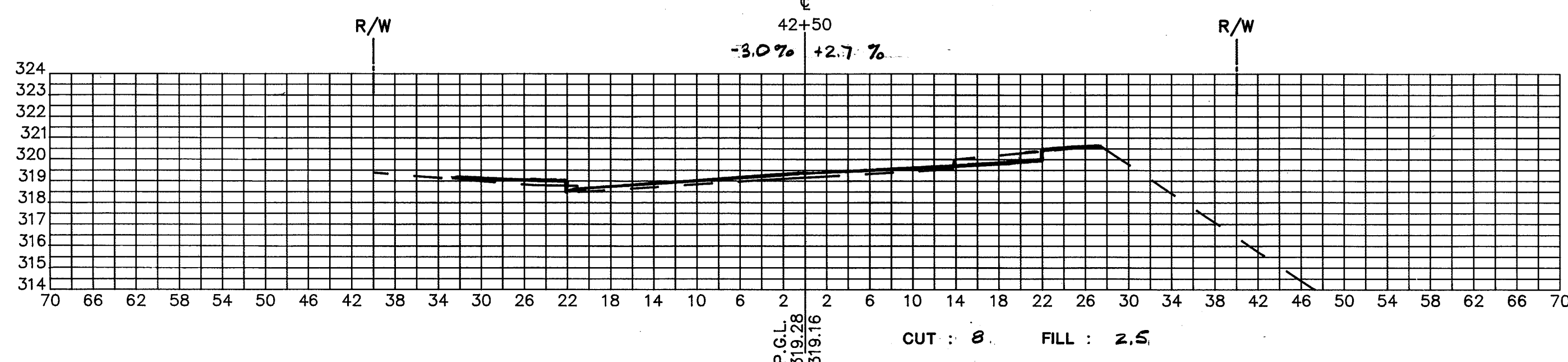
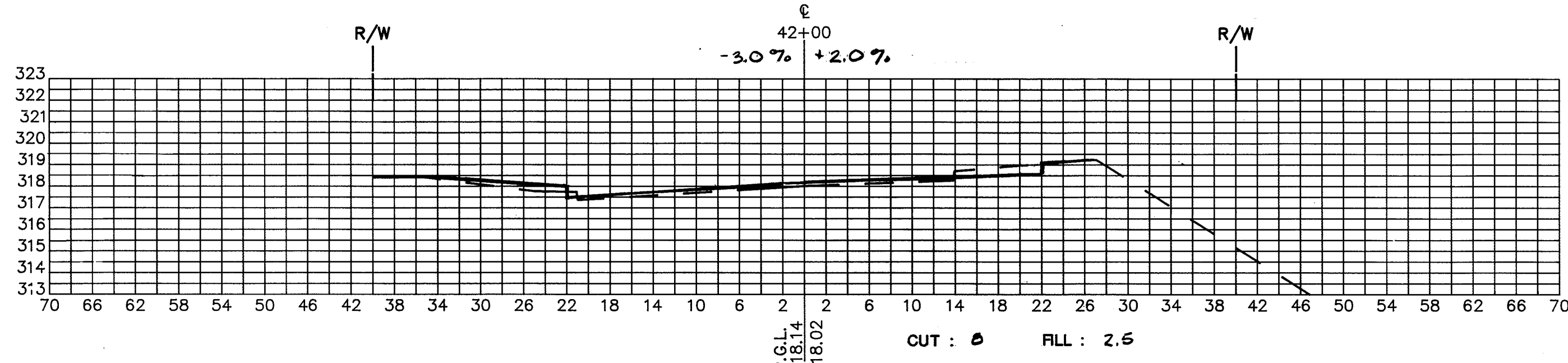
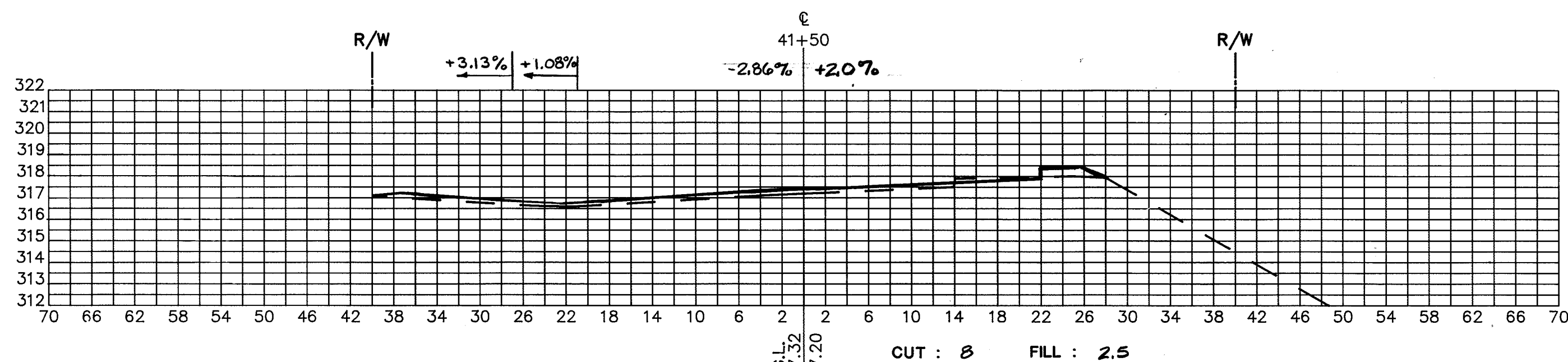
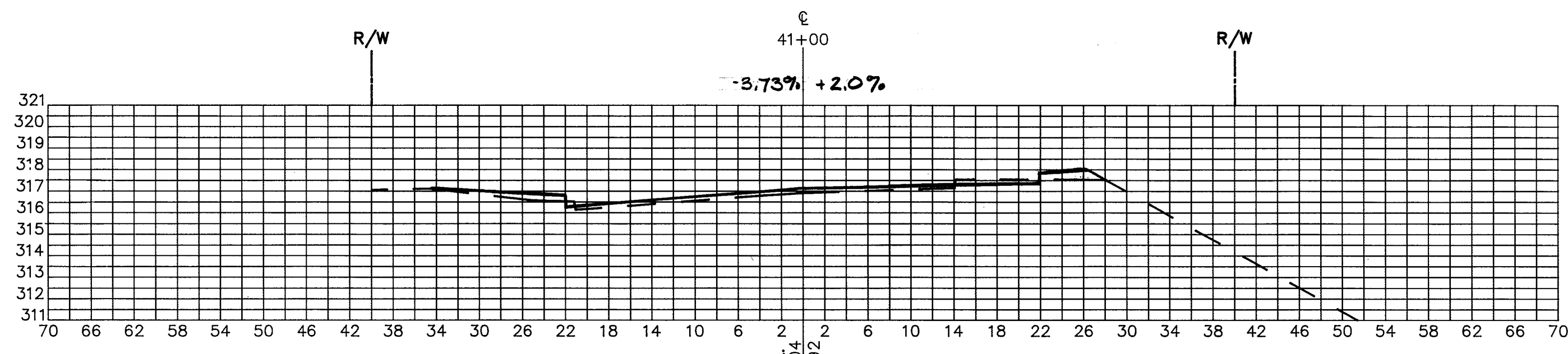
SCALE: HORIZ. 1"=10'
 VERT. 1"=5'

CAPITAL PROJECT NO. J-4095

DATE: 12-80

SHEET: 8 of 24

1601

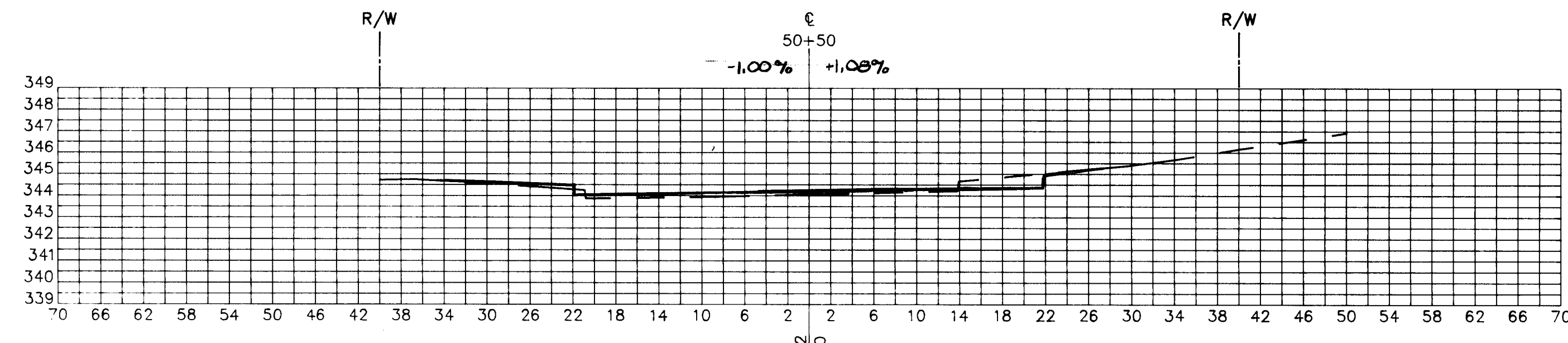
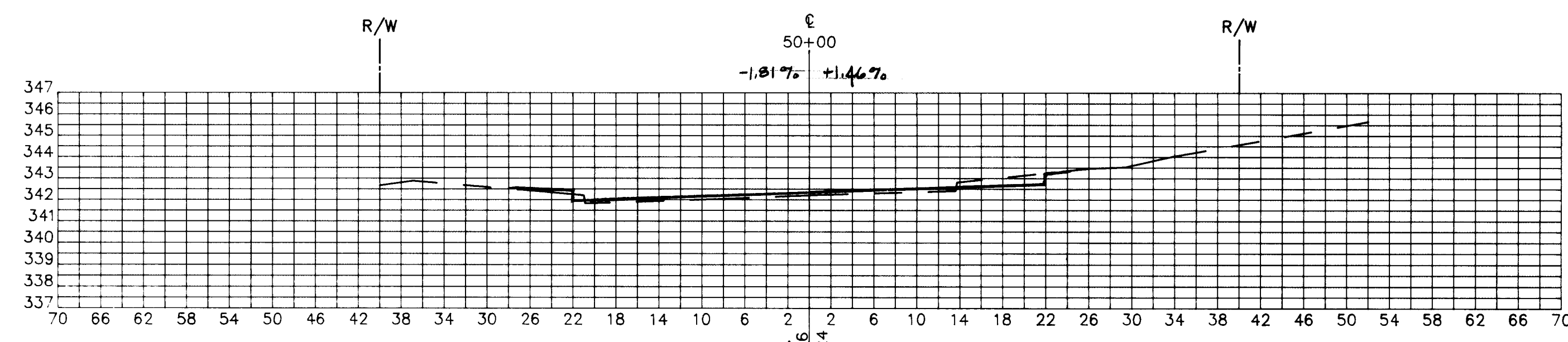
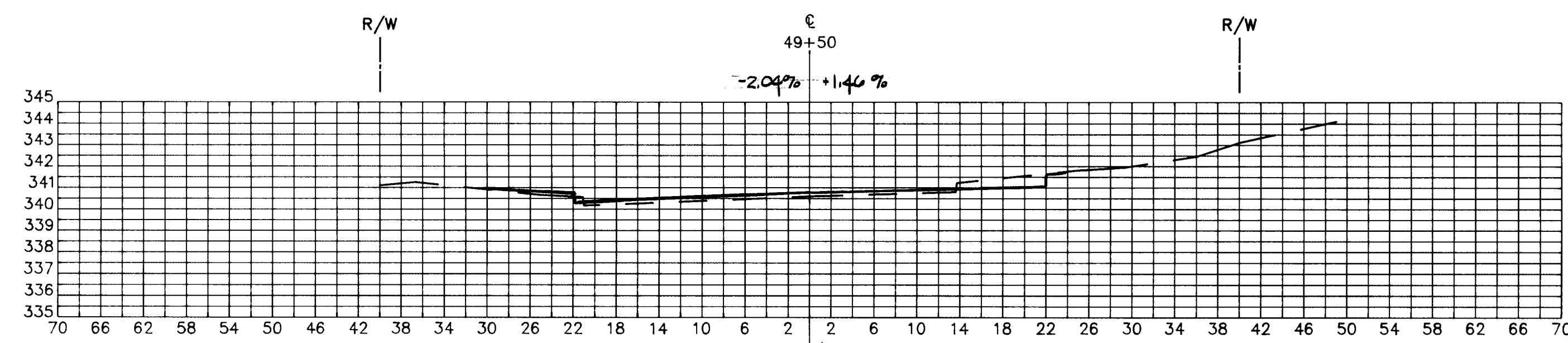
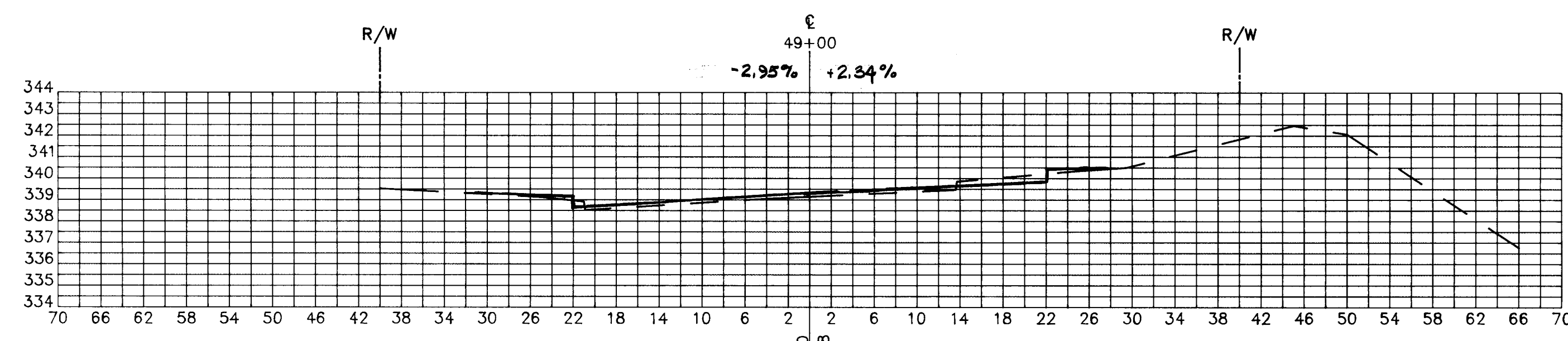
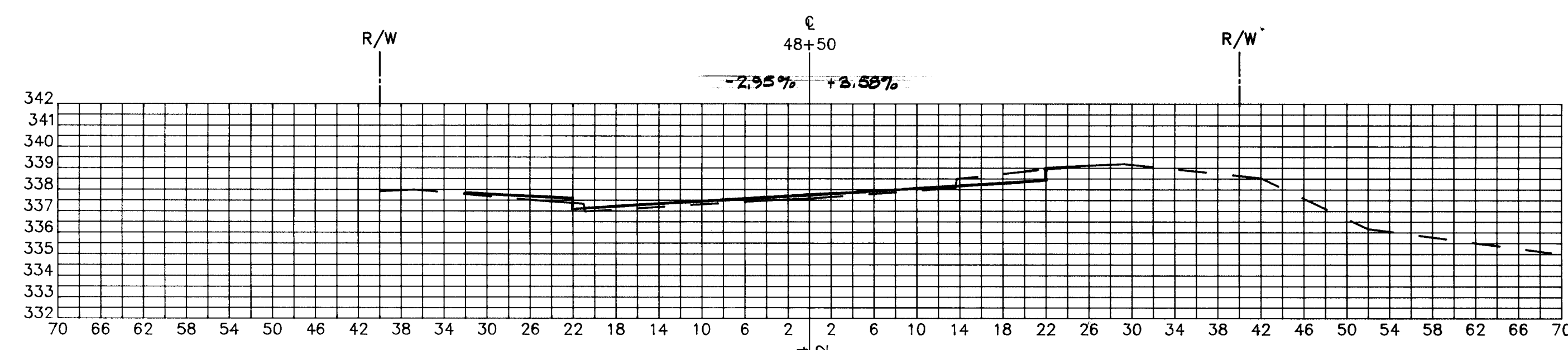
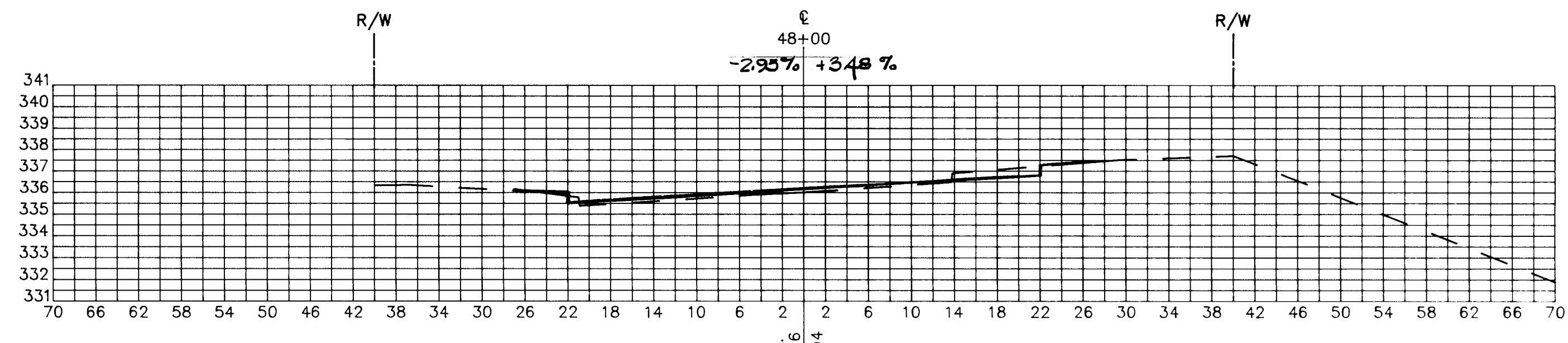
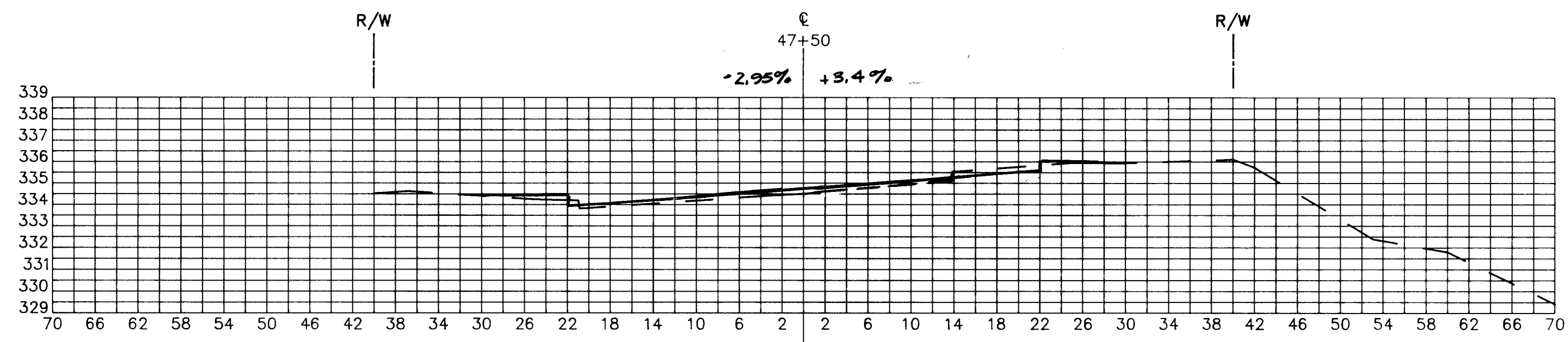
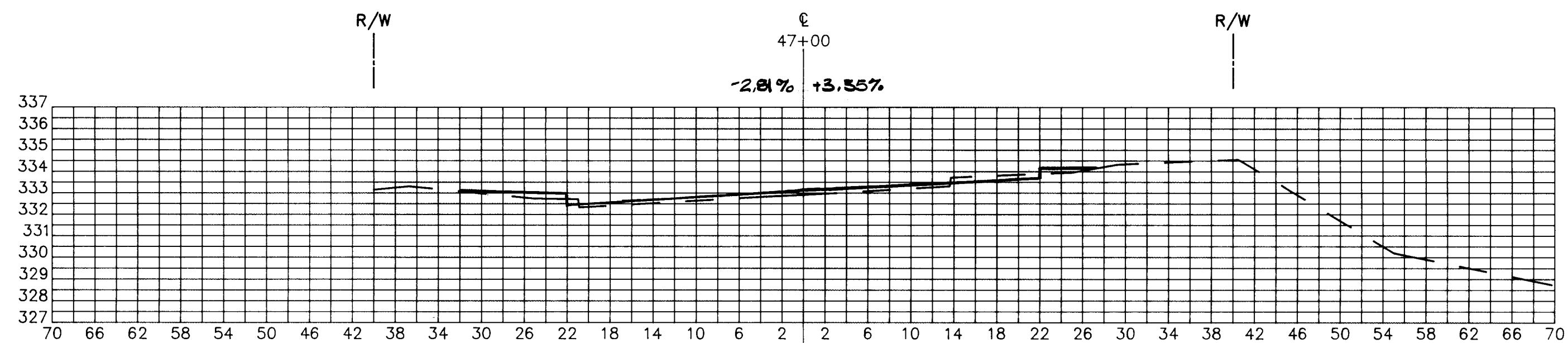
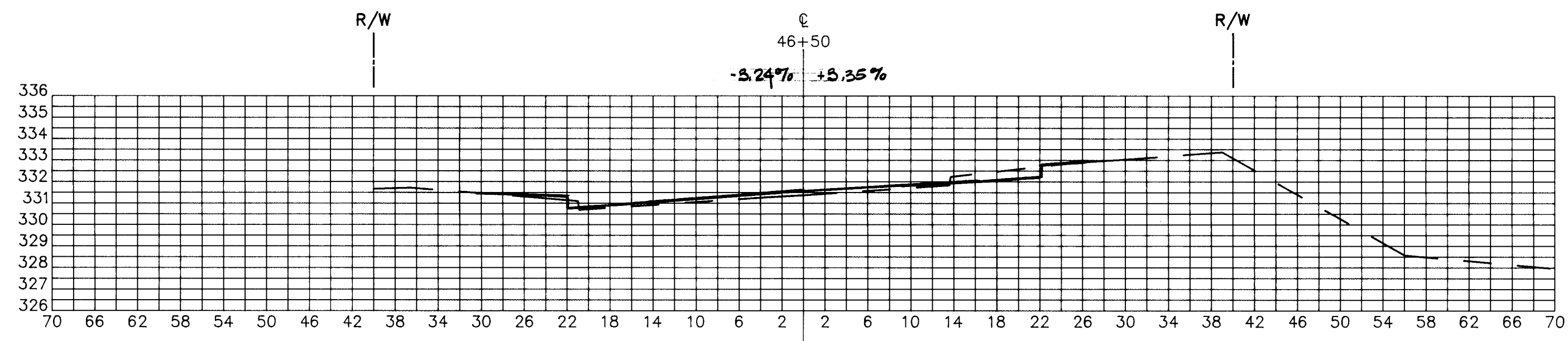
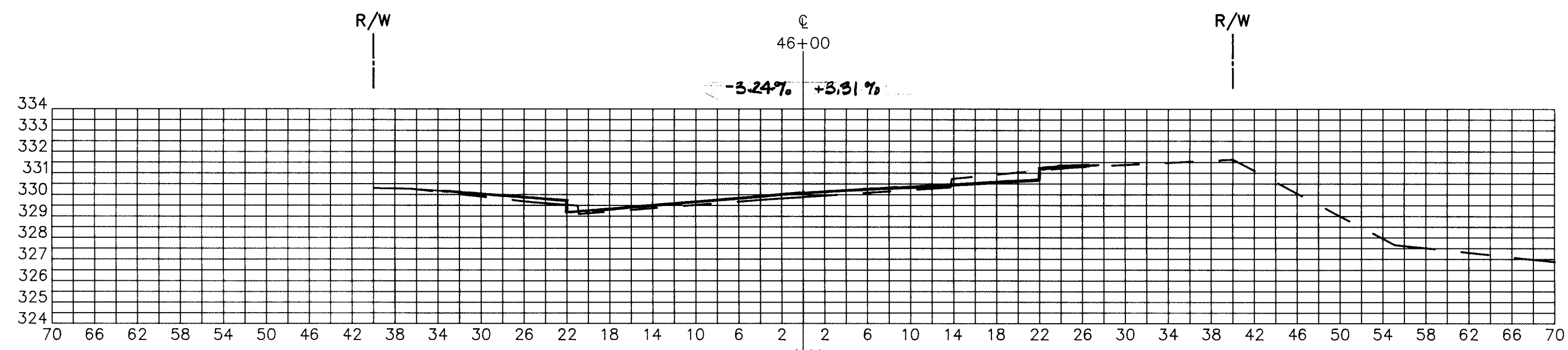


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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 41+00 TO 45+50
 HOWARD COUNTY, MARYLAND



1601

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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
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 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

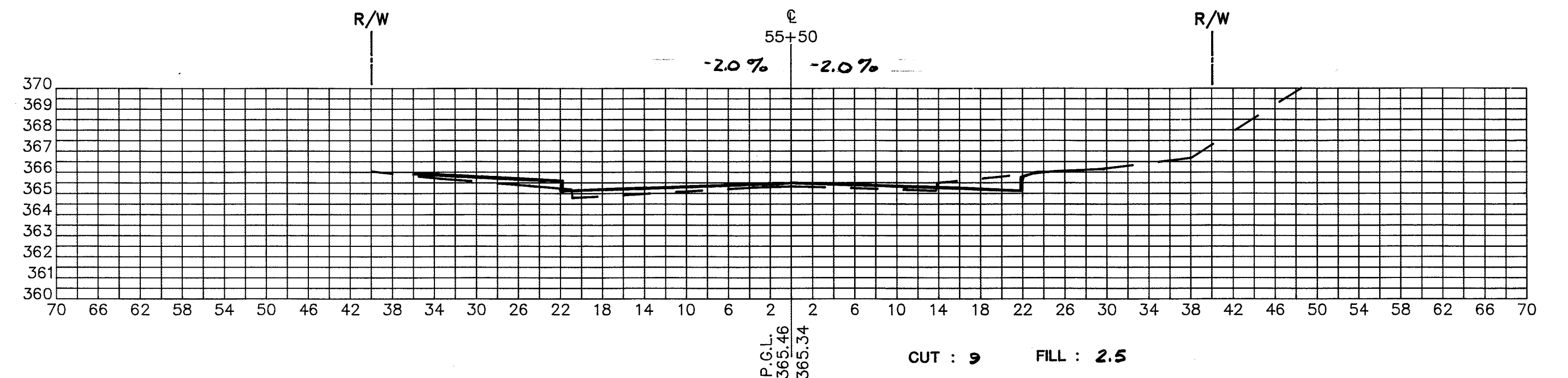
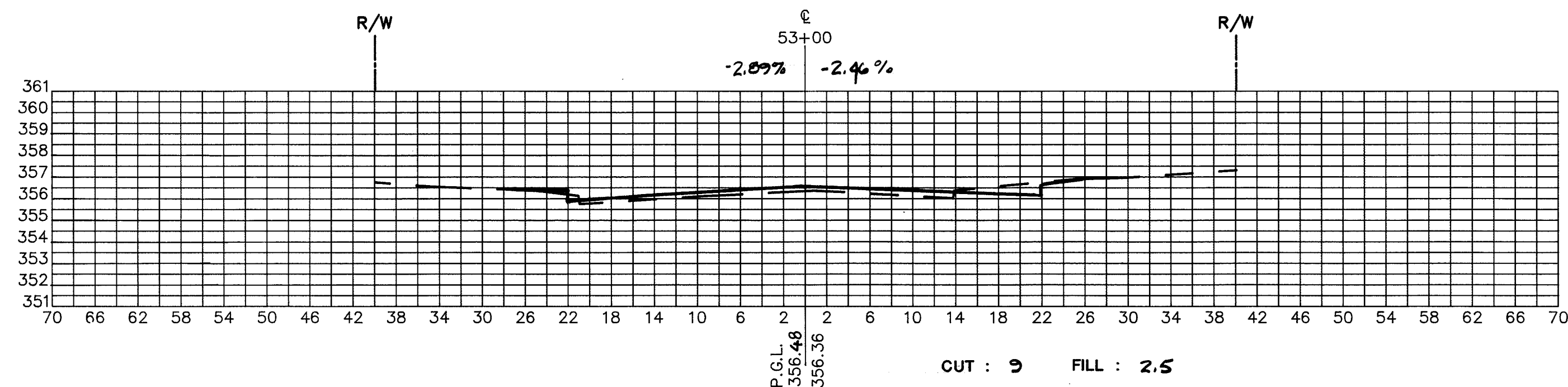
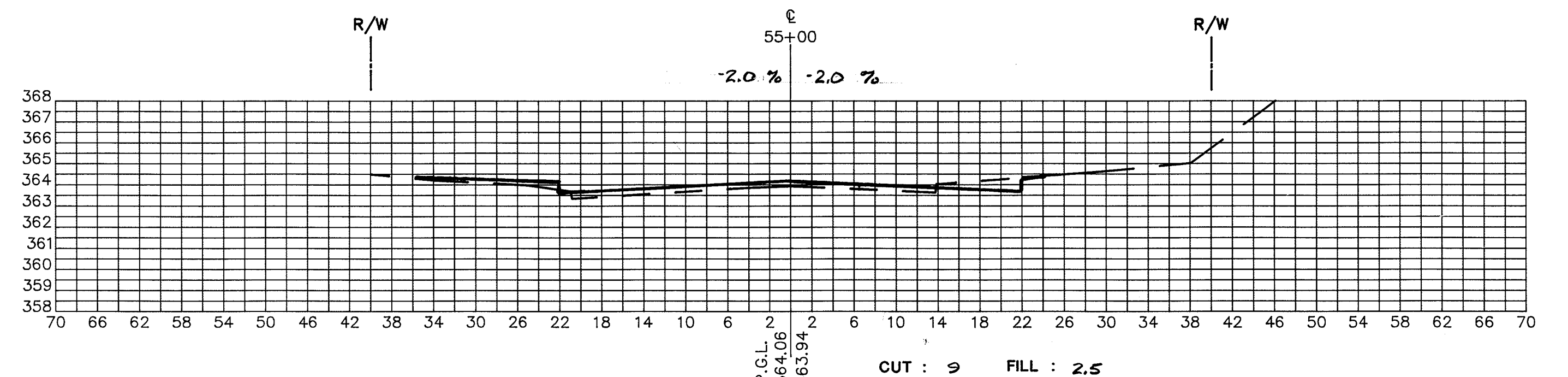
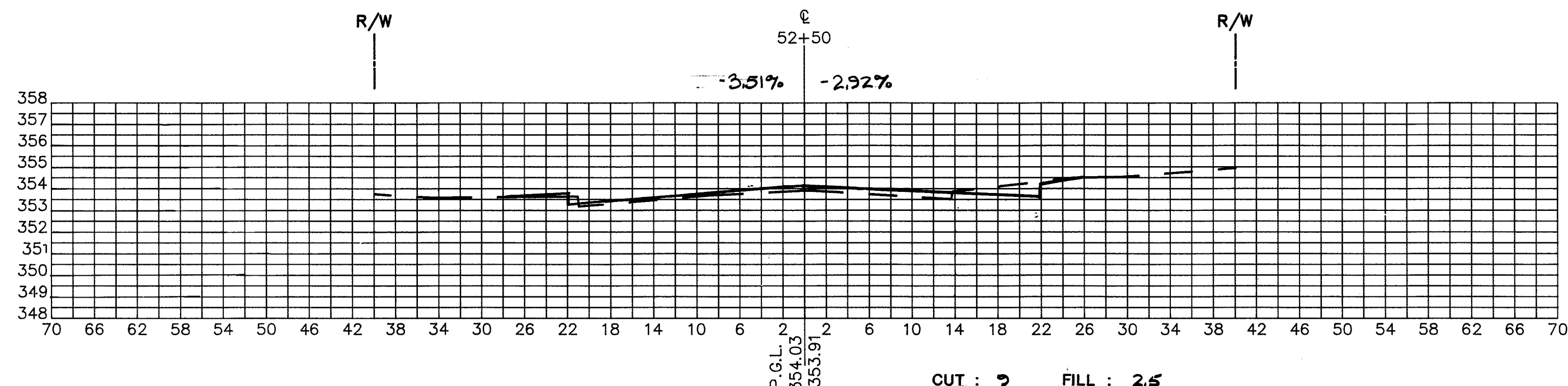
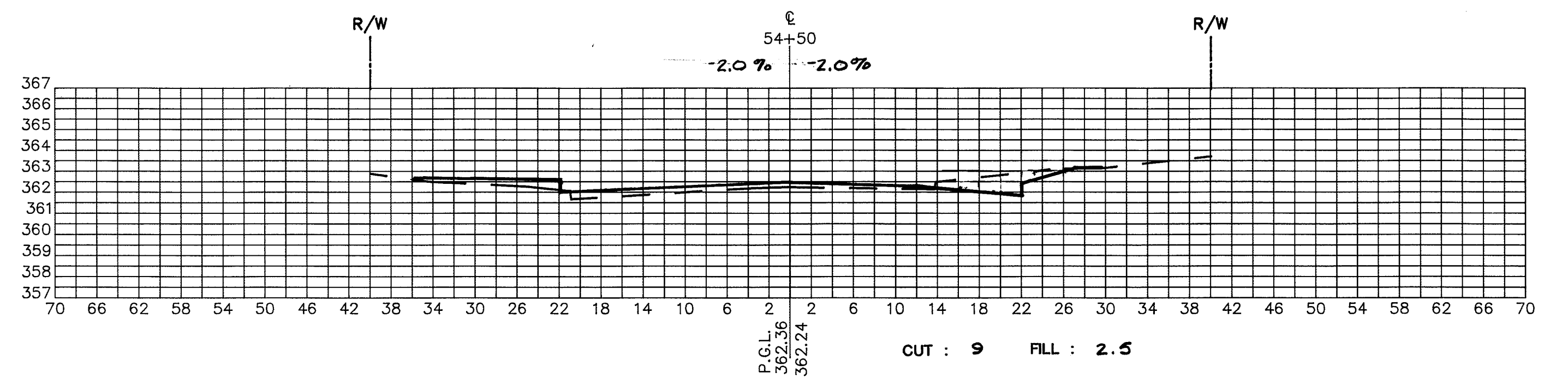
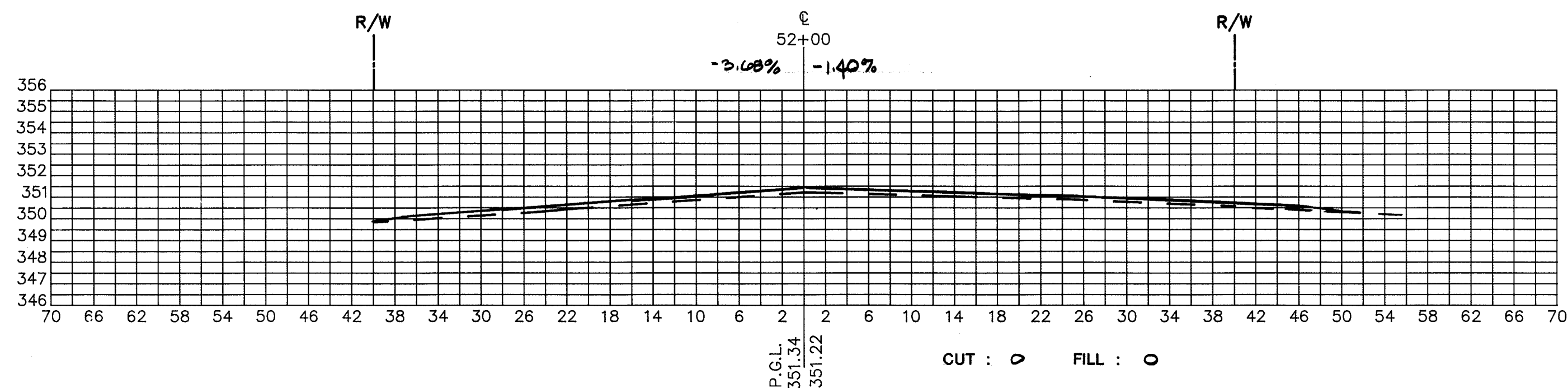
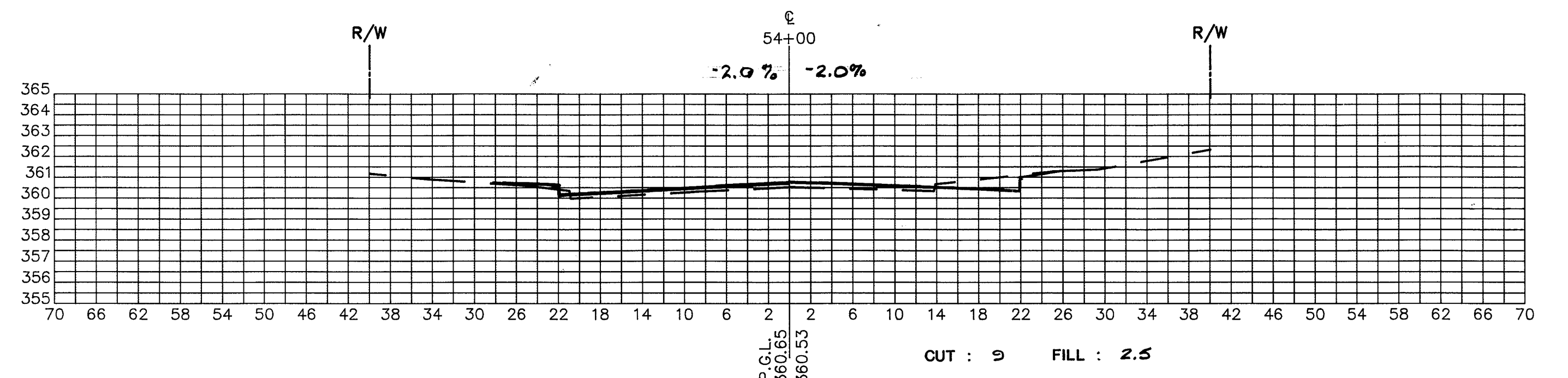
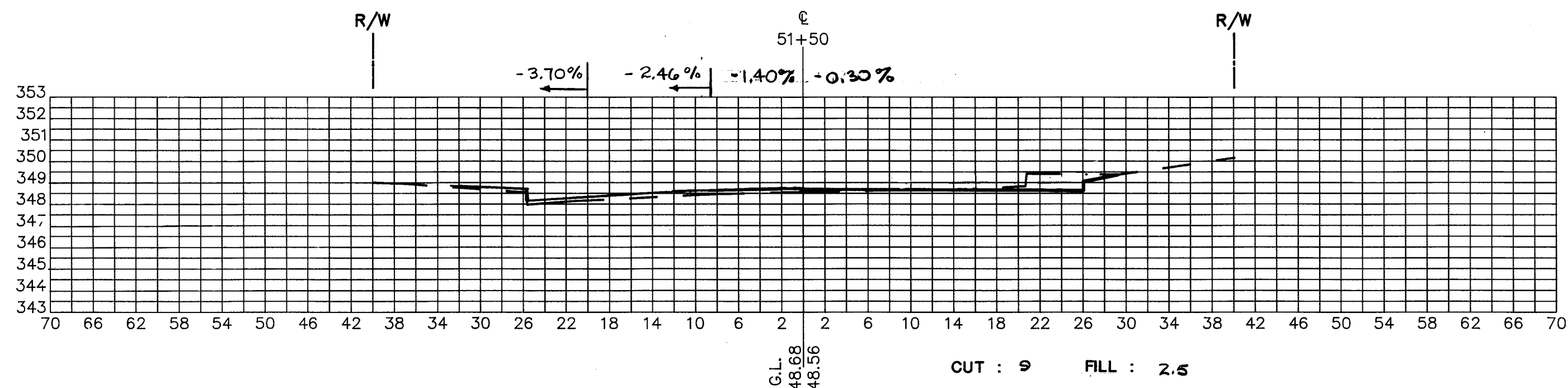
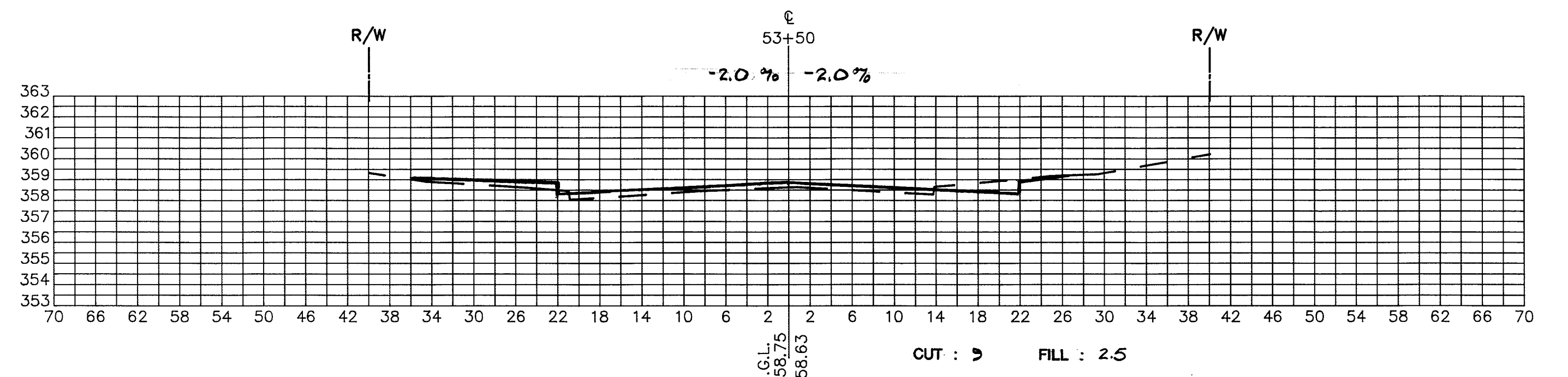
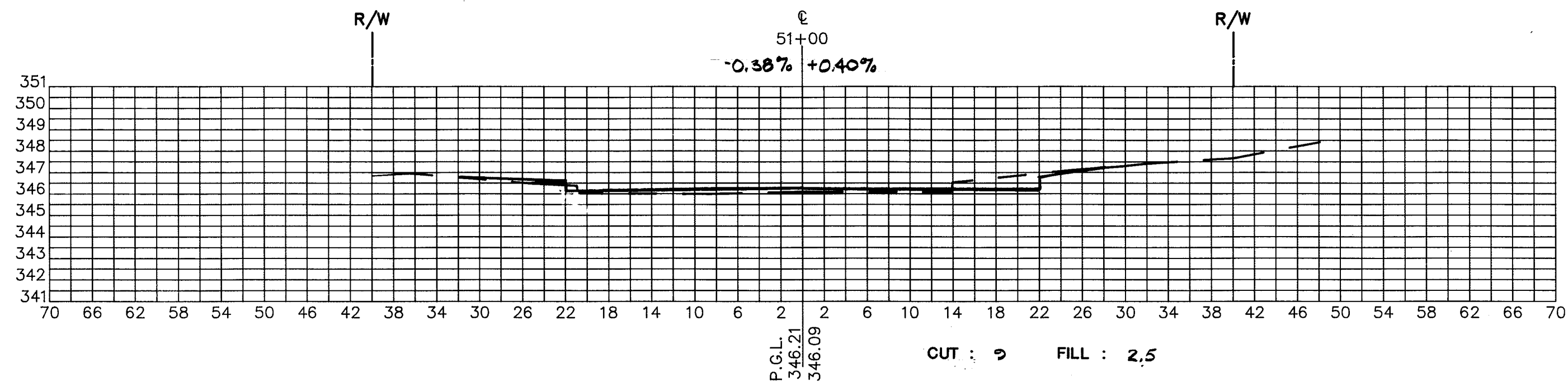
OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 46+00 TO 50+50
 HOWARD COUNTY, MARYLAND

SCALE: HORIZ. 1"=10'
VERT. 1"=5'

CAPITAL PROJECT NO. J-4095

DATE: 12-00

SHEET: 10 of 24



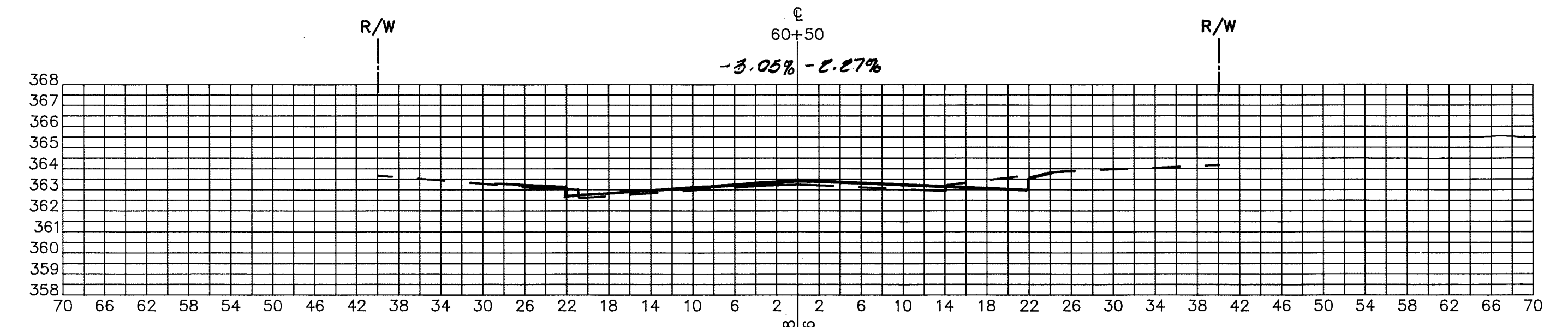
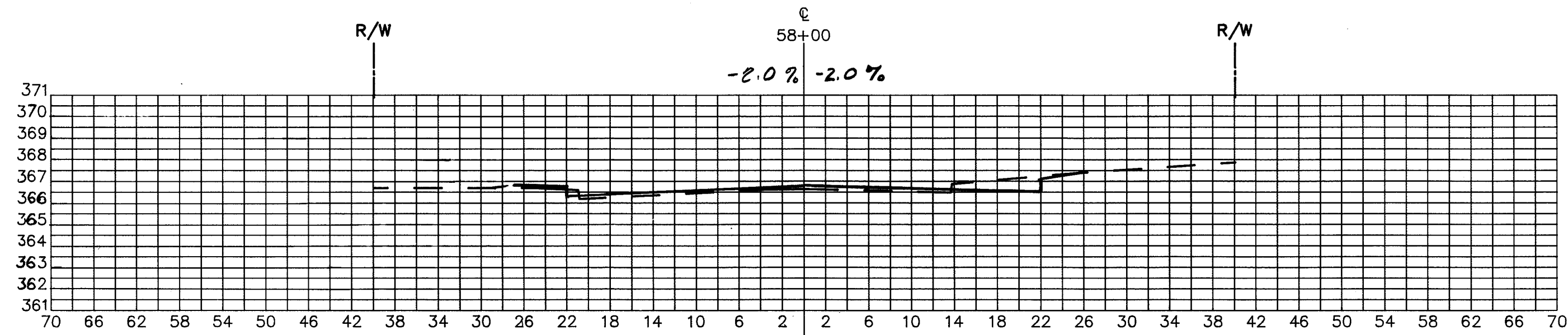
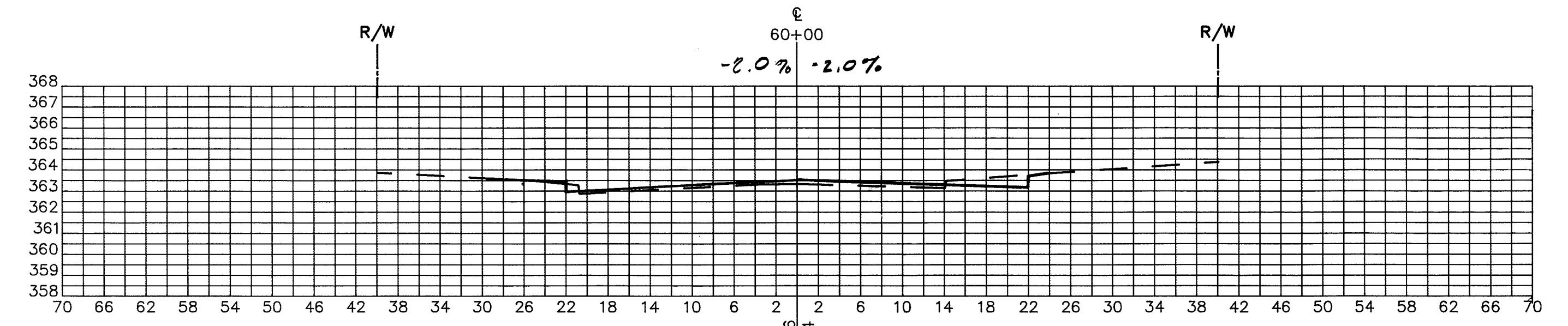
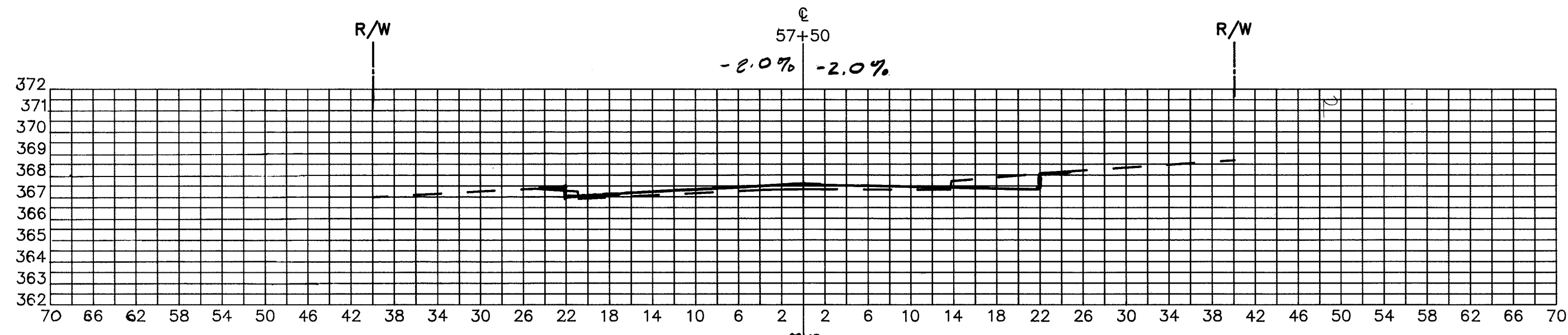
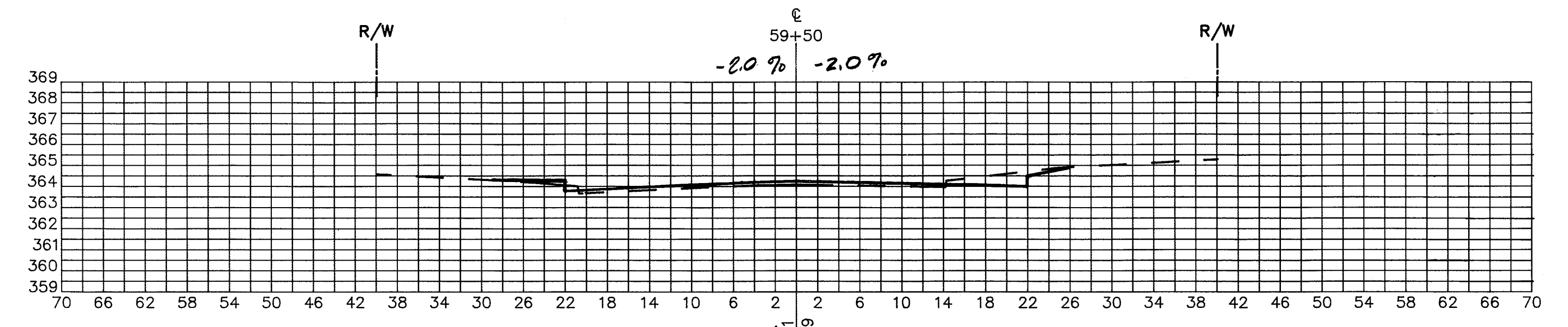
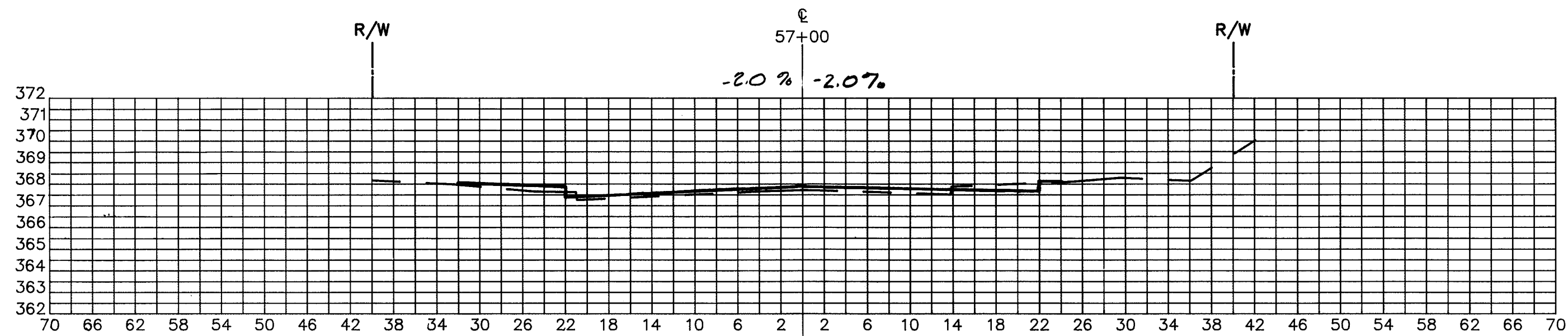
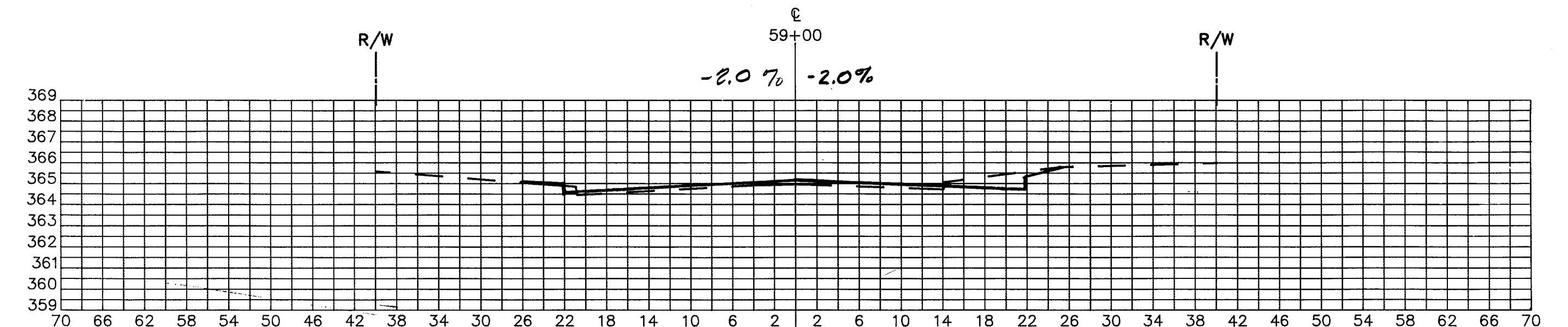
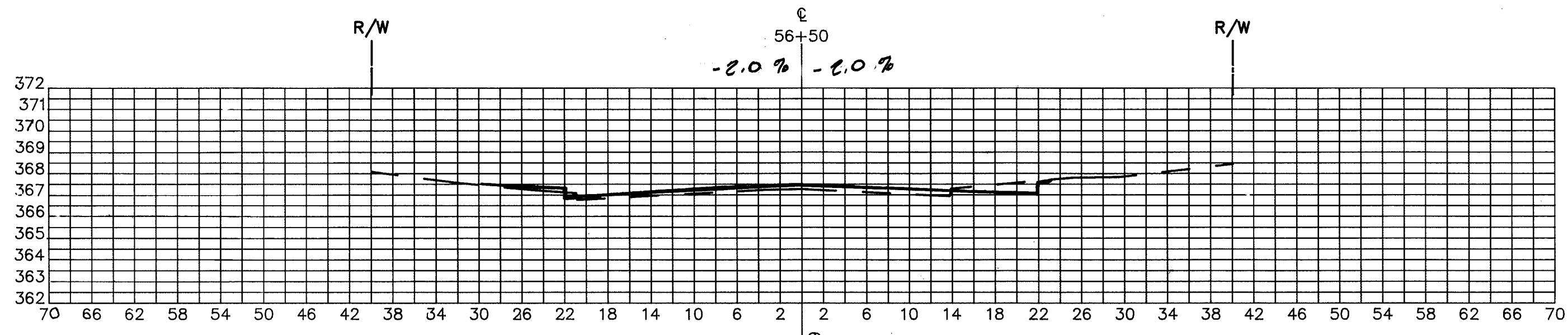
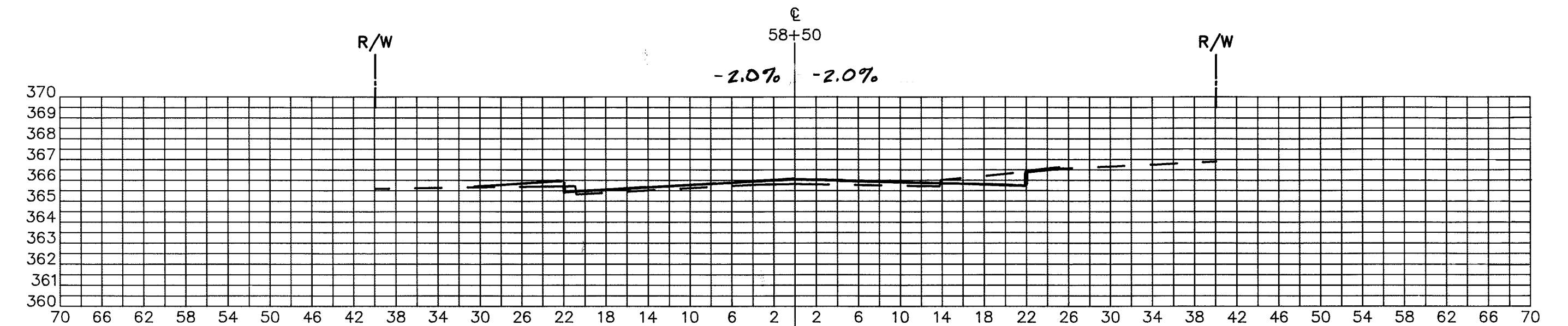
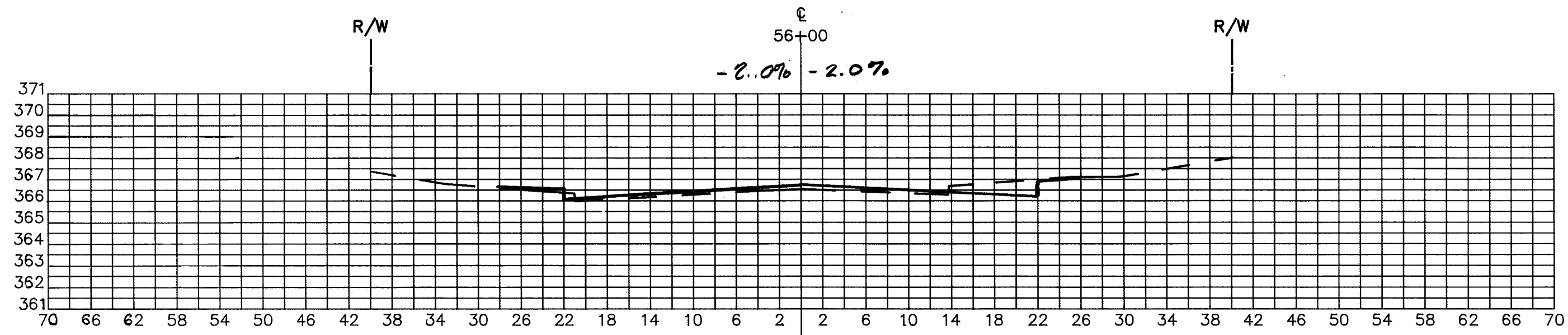
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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
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 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 51+00 TO 55+50
 HOWARD COUNTY, MARYLAND

1601

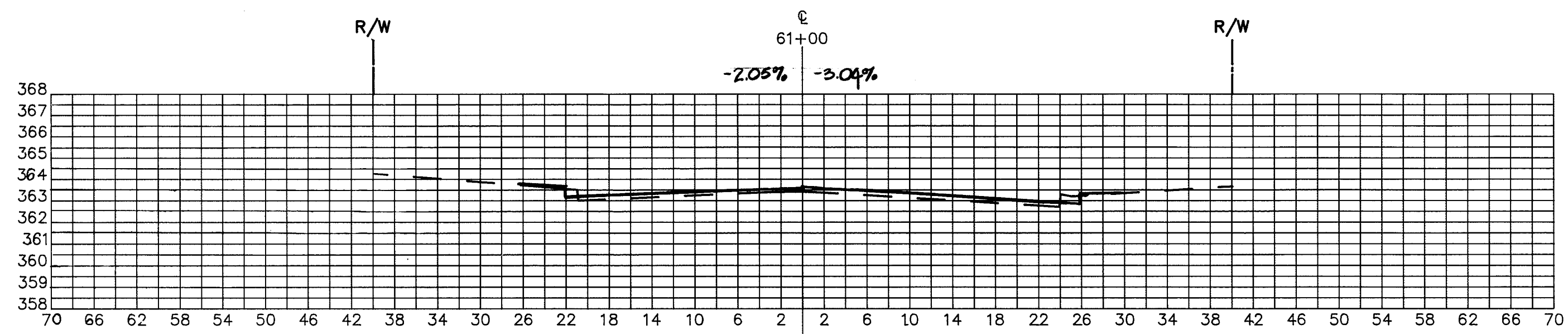


1601

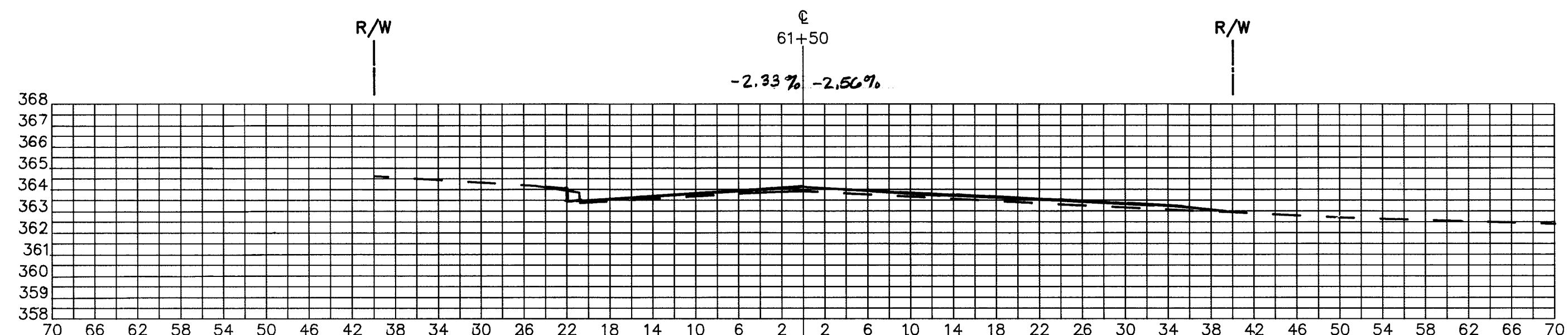
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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
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 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

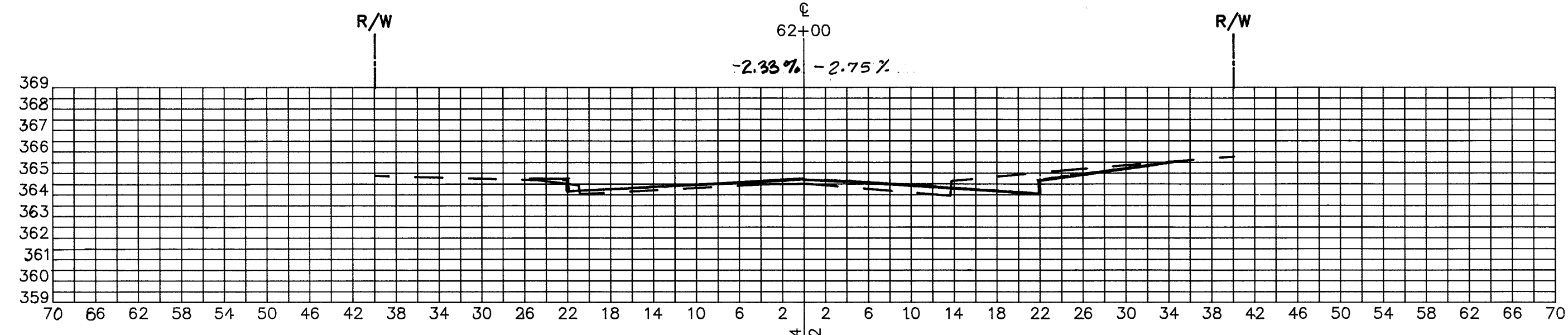
OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 56+00 TO 60+50
 HOWARD COUNTY, MARYLAND



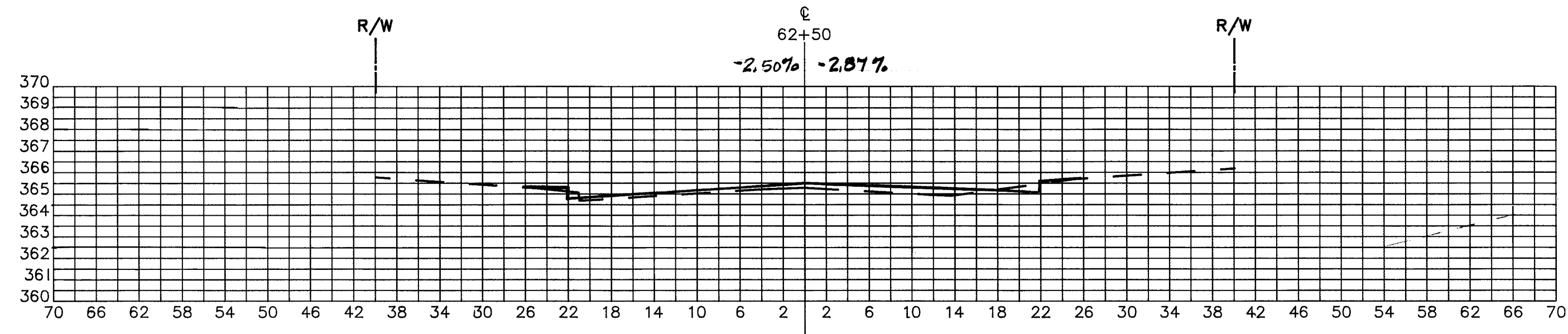
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363.44
CUT : 10 FILL : 0



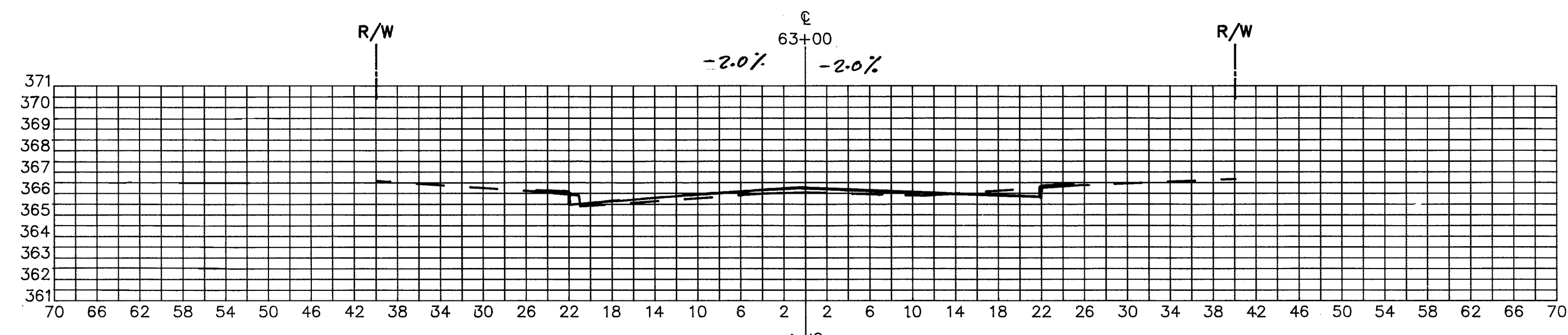
P.C.L. 364.05
363.95
CUT : 4 FILL : 0



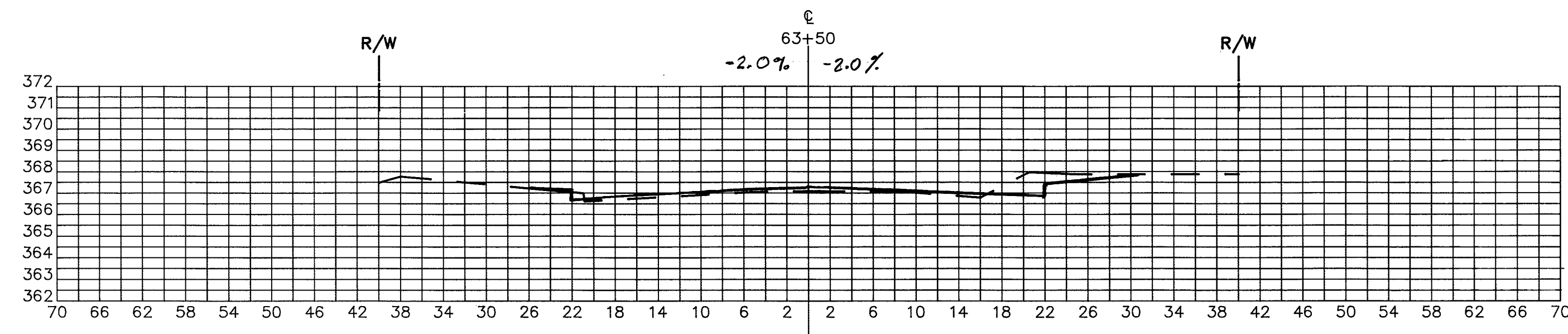
P.C.L. 364.64
364.52
CUT : 10 FILL : 0



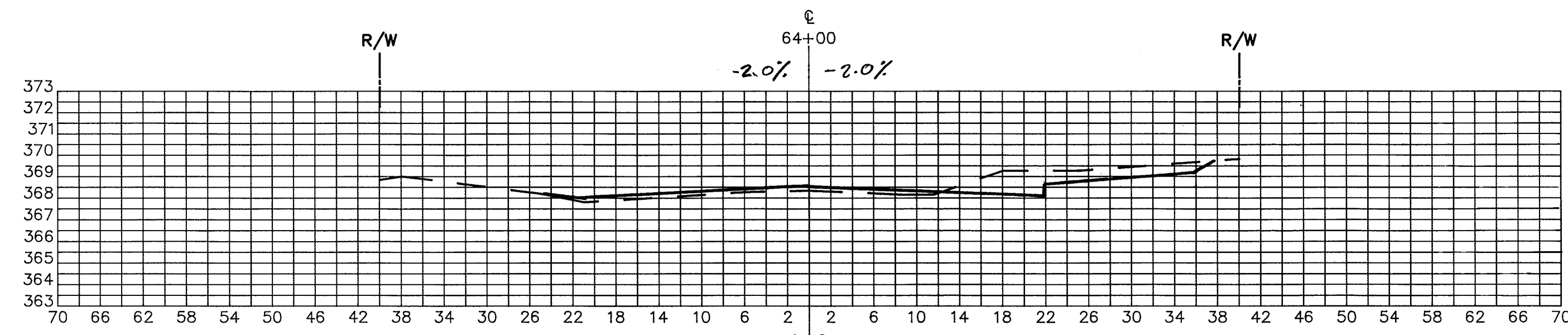
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365.30
CUT : 6 FILL : 2



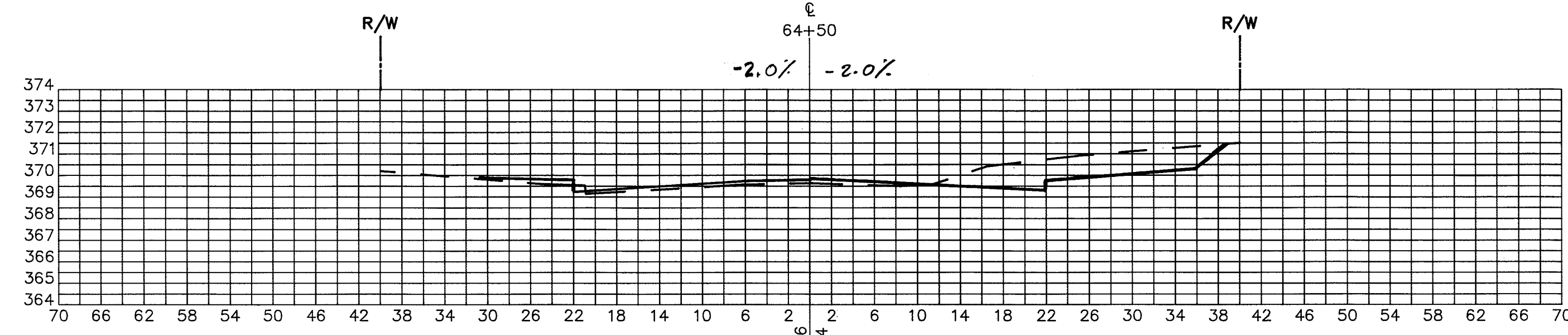
P.C.L. 366.17
366.05
CUT : 6 FILL : 2



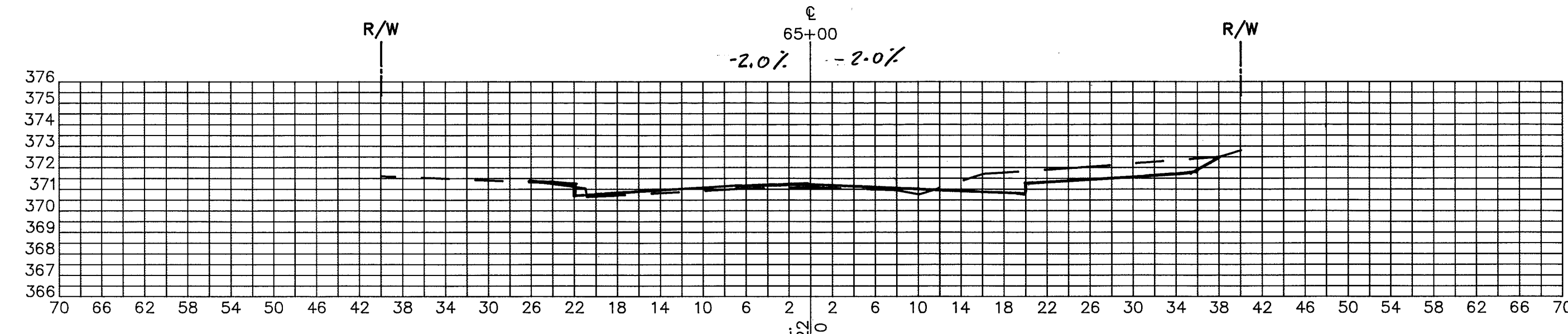
P.C.L. 367.09
367.09
CUT : 13 FILL : 0



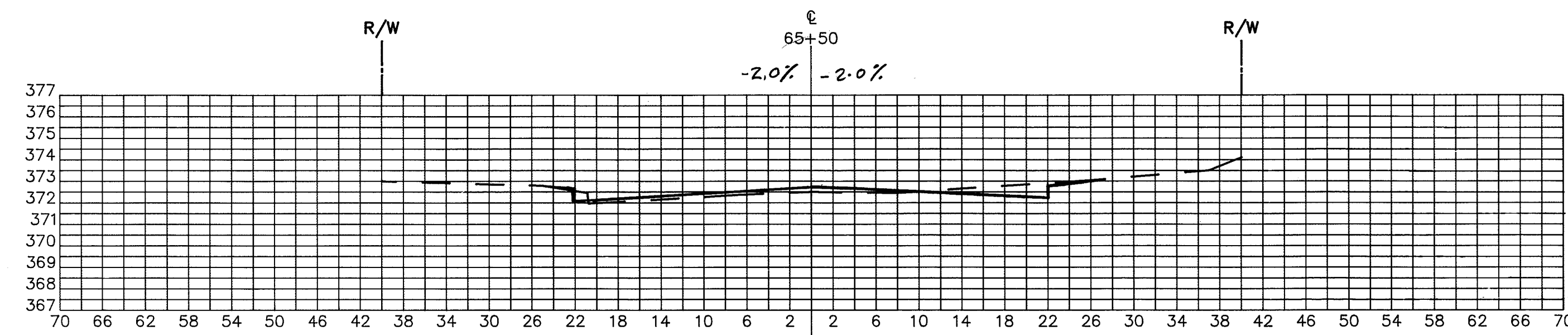
P.C.L. 368.47
368.35
CUT : 21 FILL : 0



P.C.L. 368.76
368.64
CUT : 31 FILL : 2



P.C.L. 371.22
371.10
CUT : 25 FILL : 1



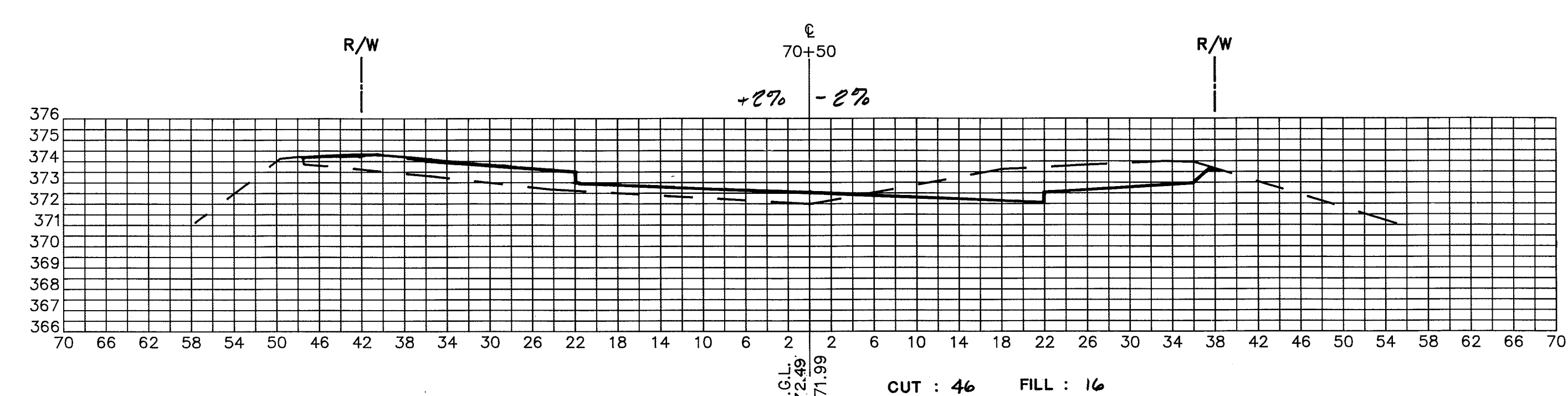
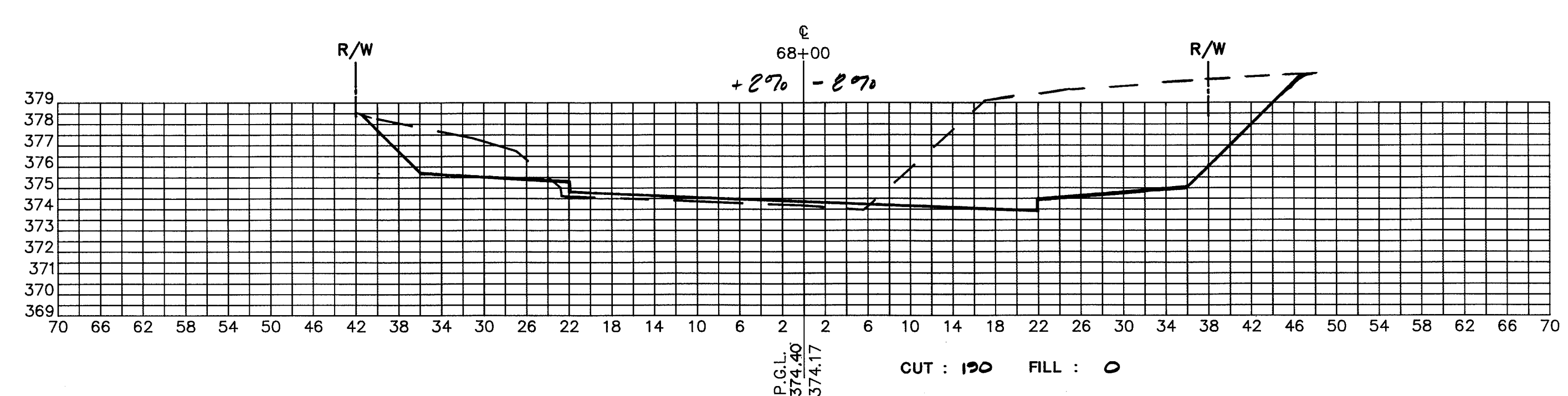
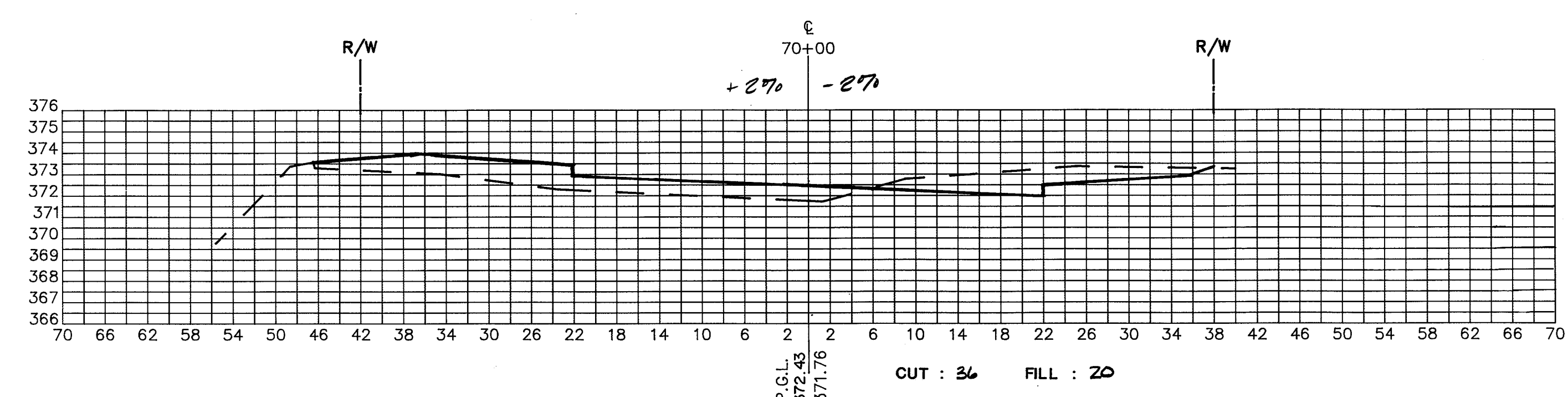
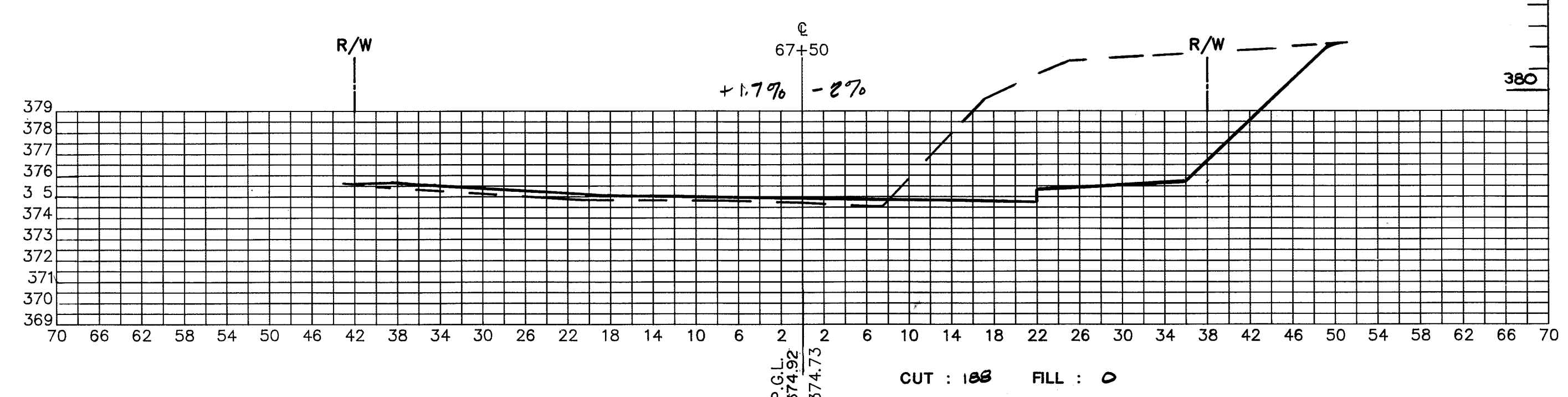
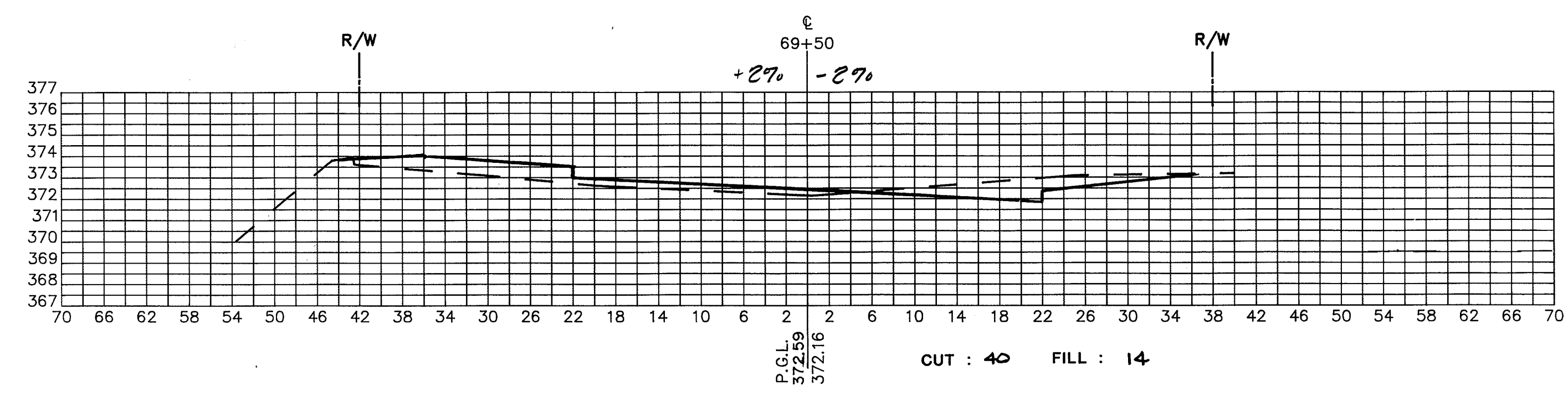
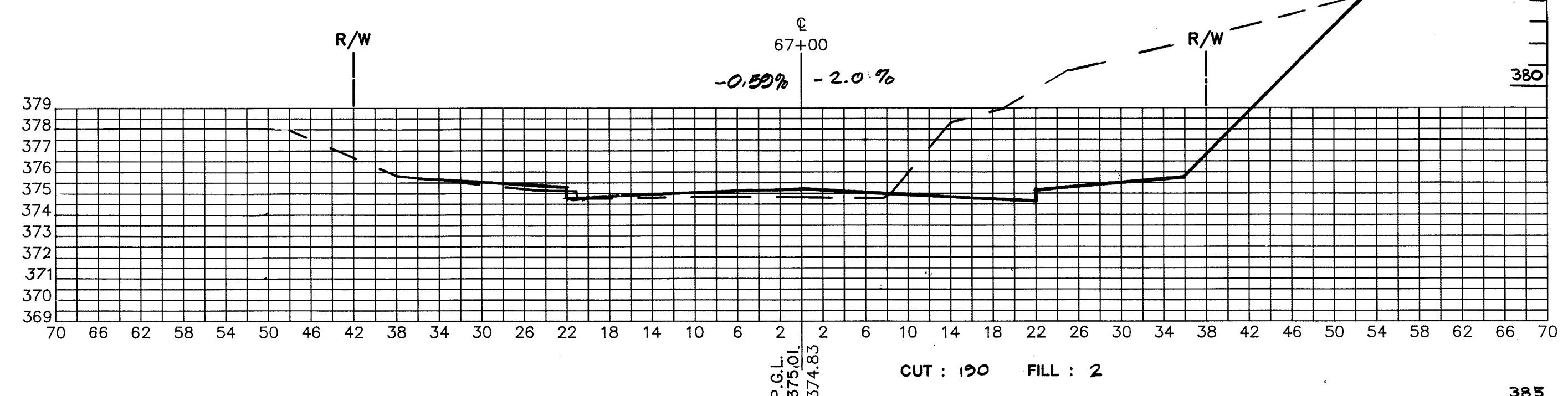
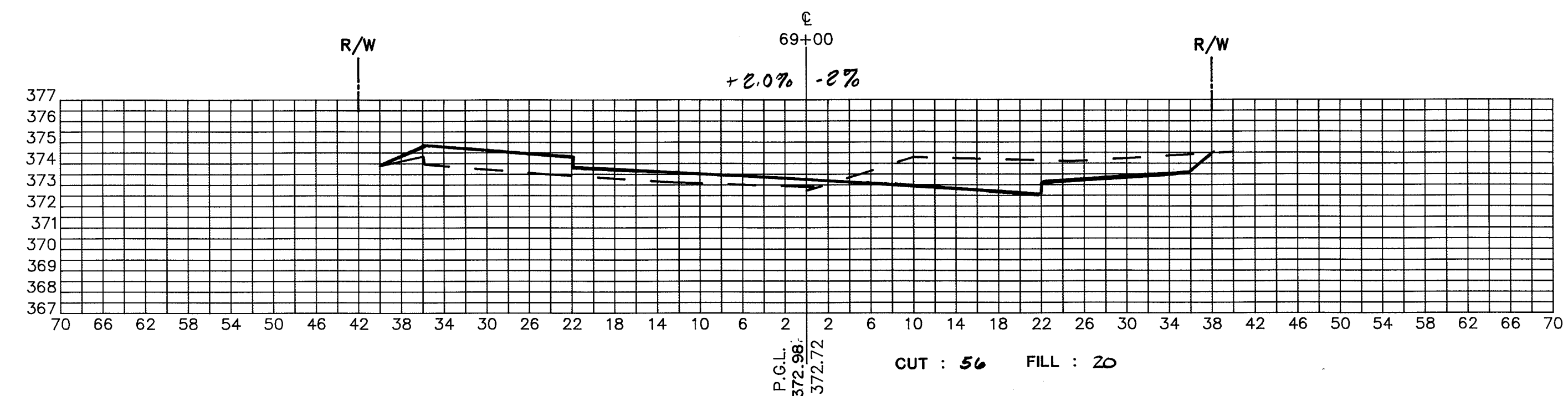
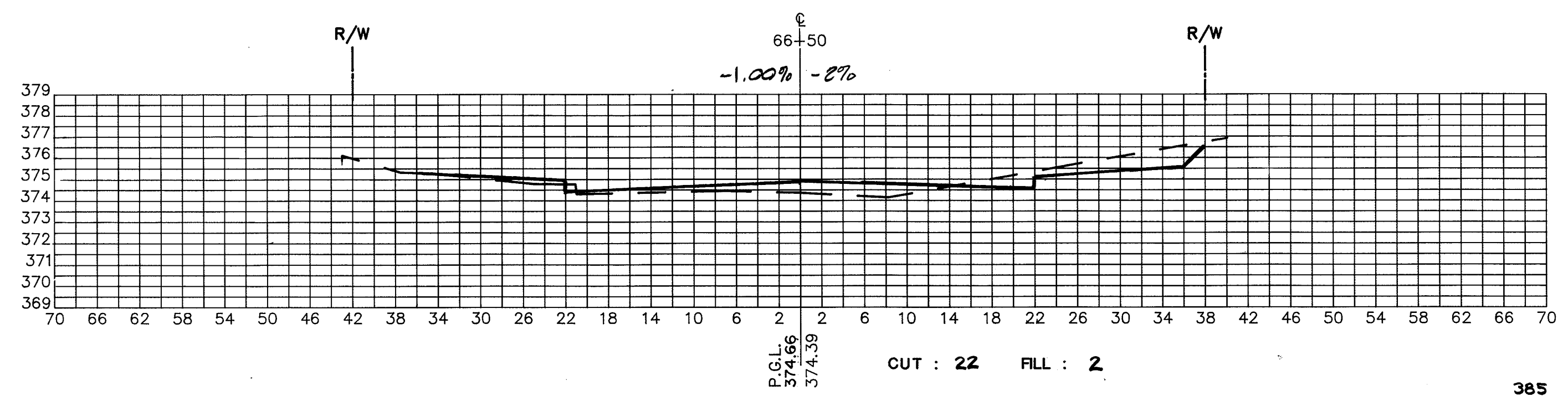
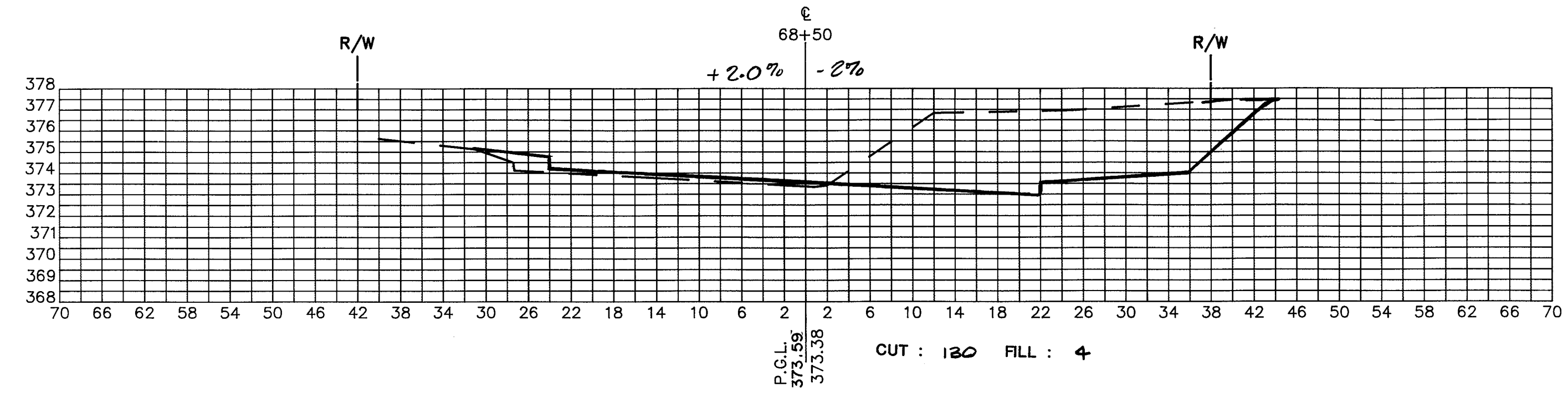
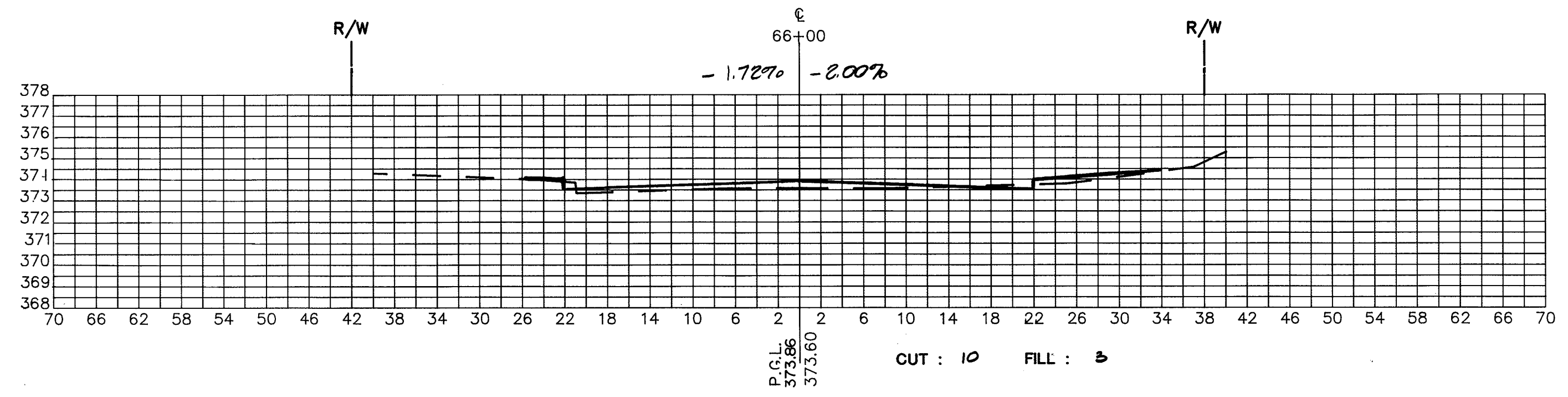
P.C.L. 372.83
372.51
CUT : 12 FILL : 1

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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
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 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 61+00 TO 65+50
 HOWARD COUNTY, MARYLAND

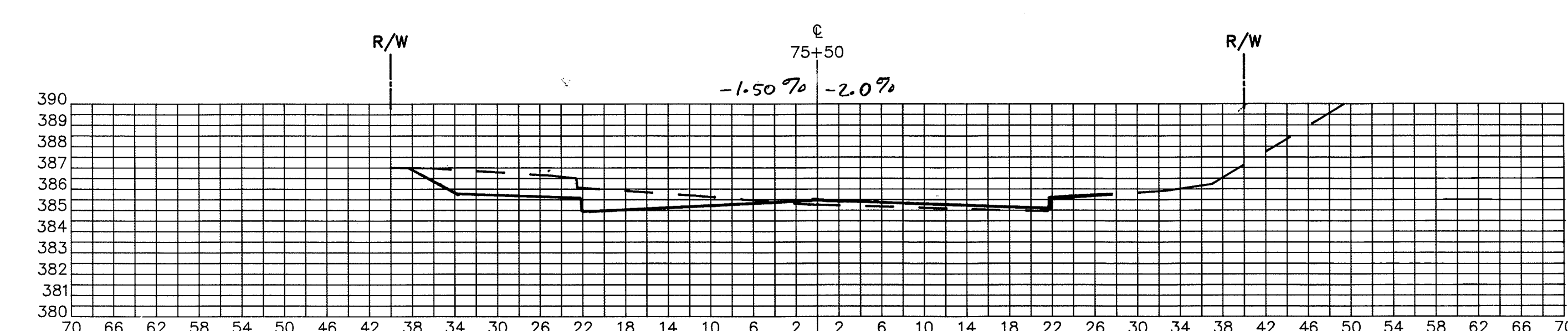
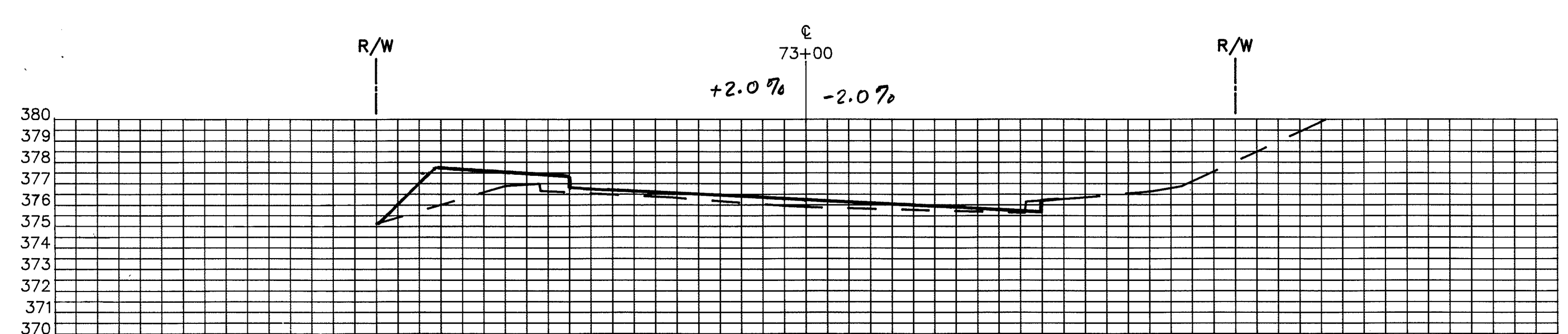
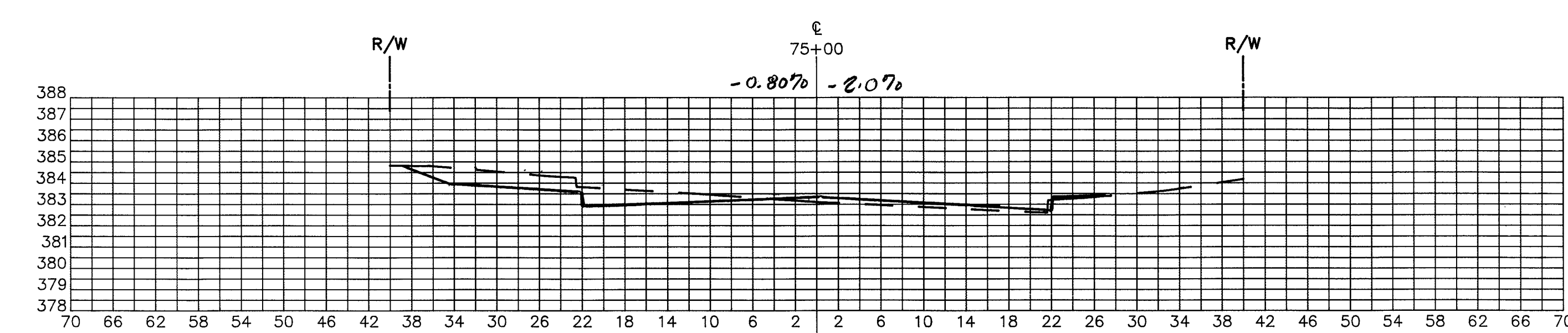
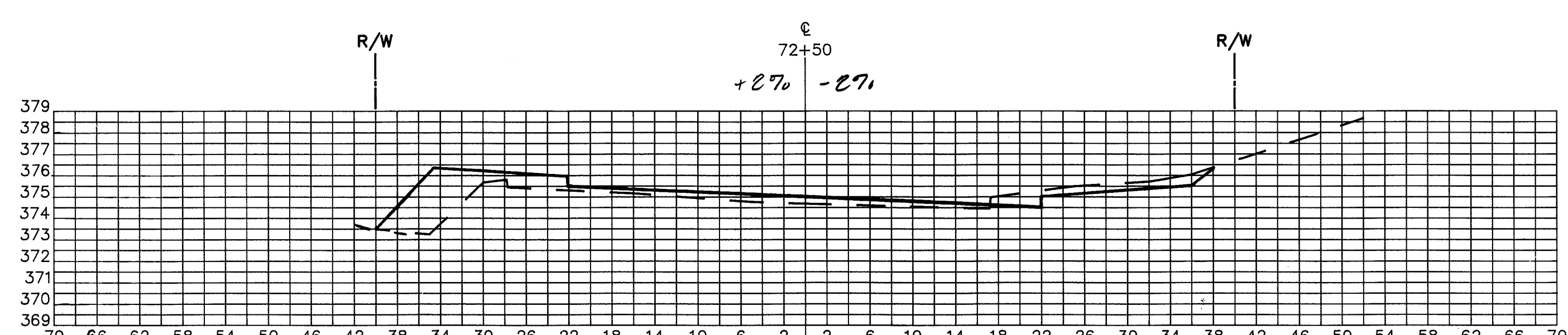
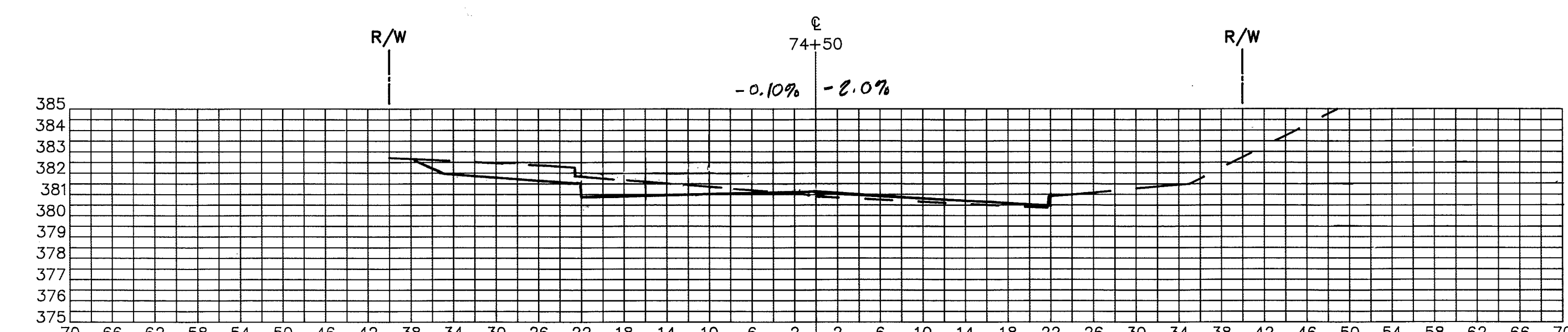
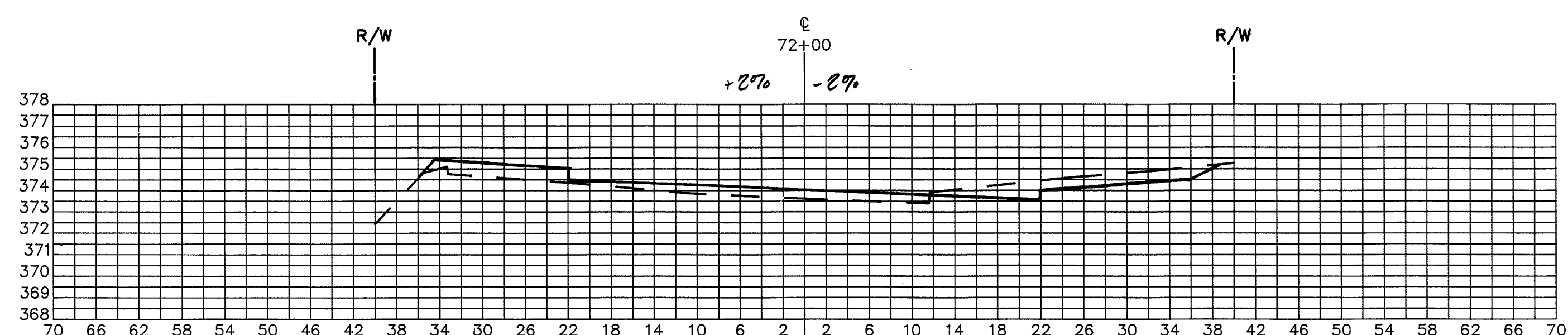
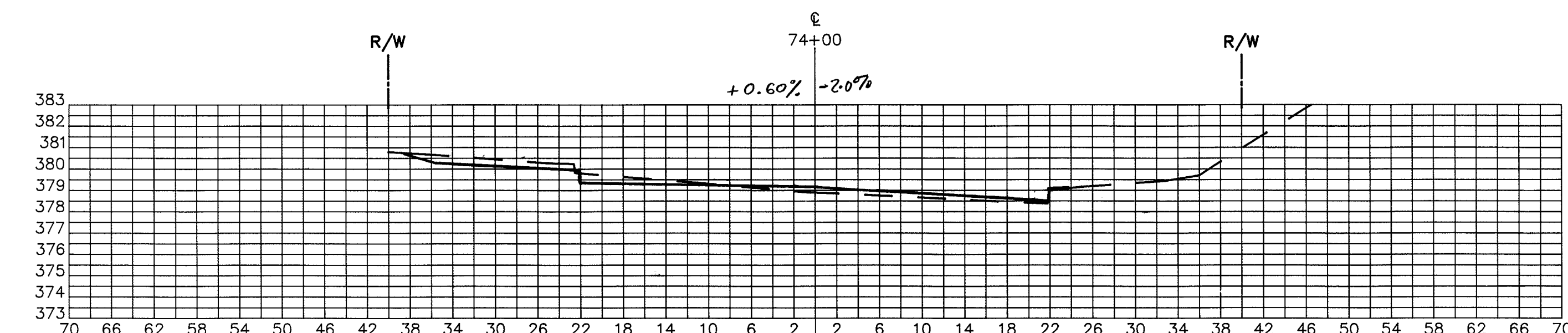
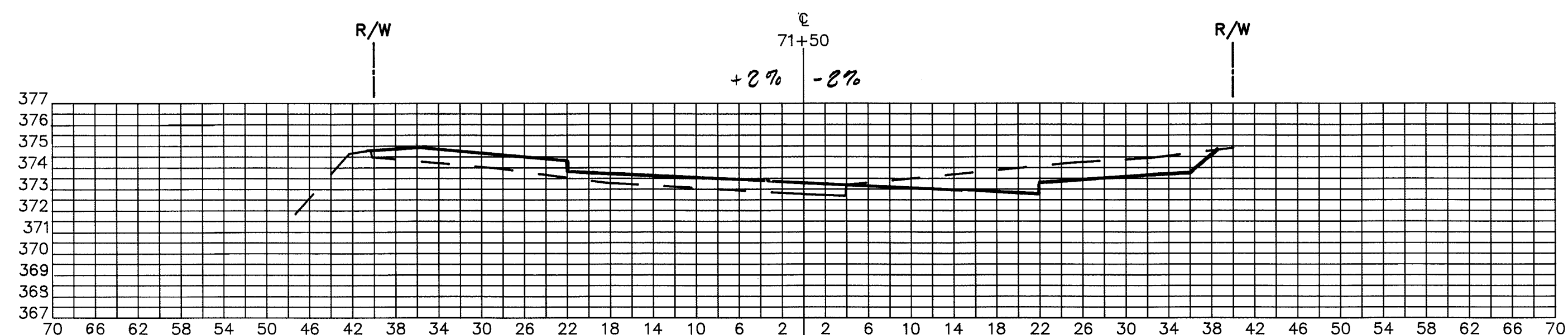
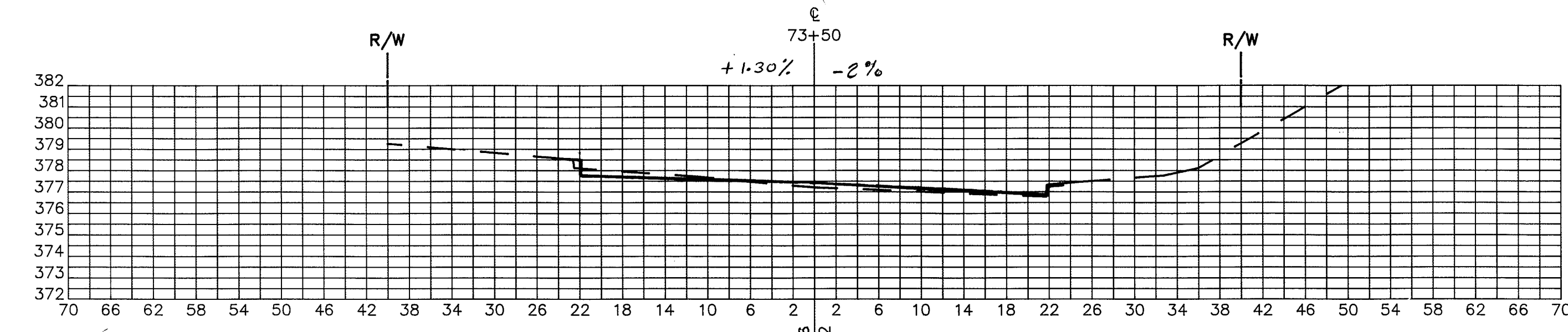
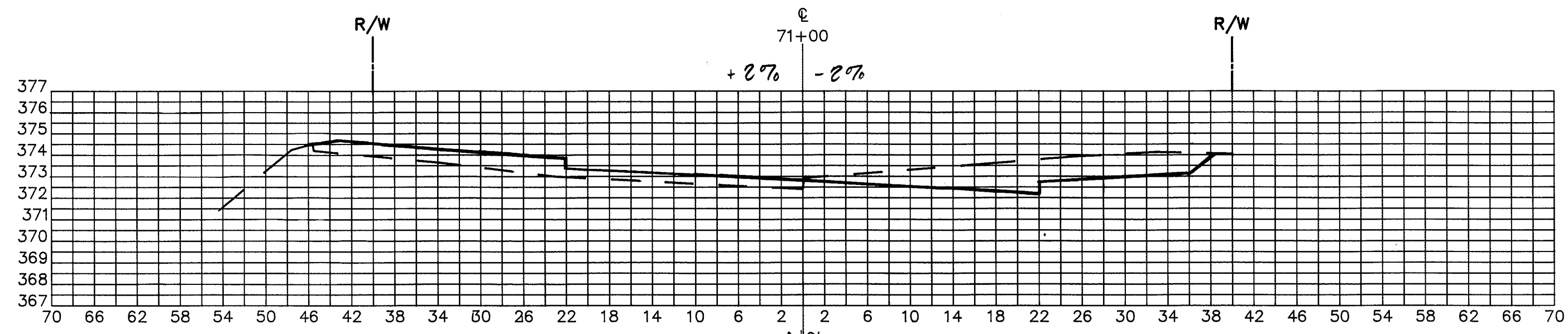


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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
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 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-8920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 66+00 TO 70+50
 HOWARD COUNTY, MARYLAND



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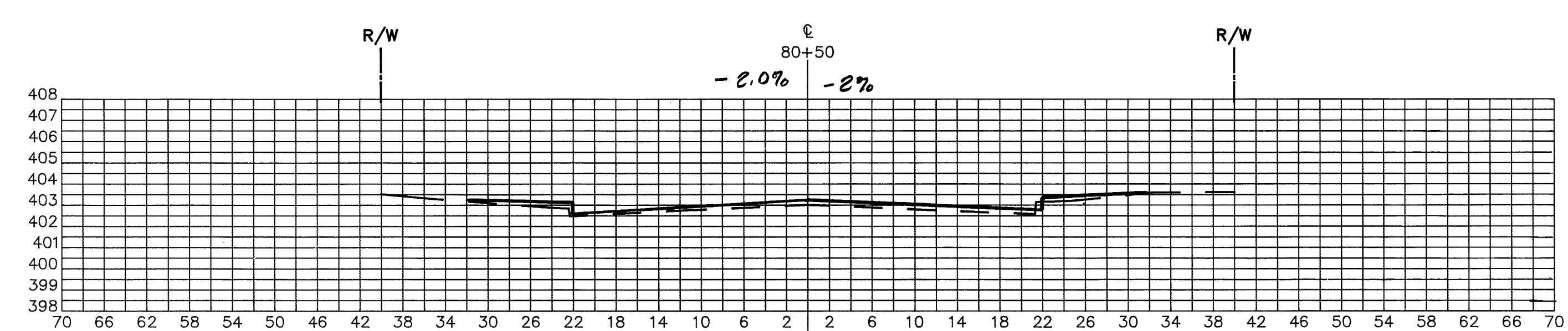
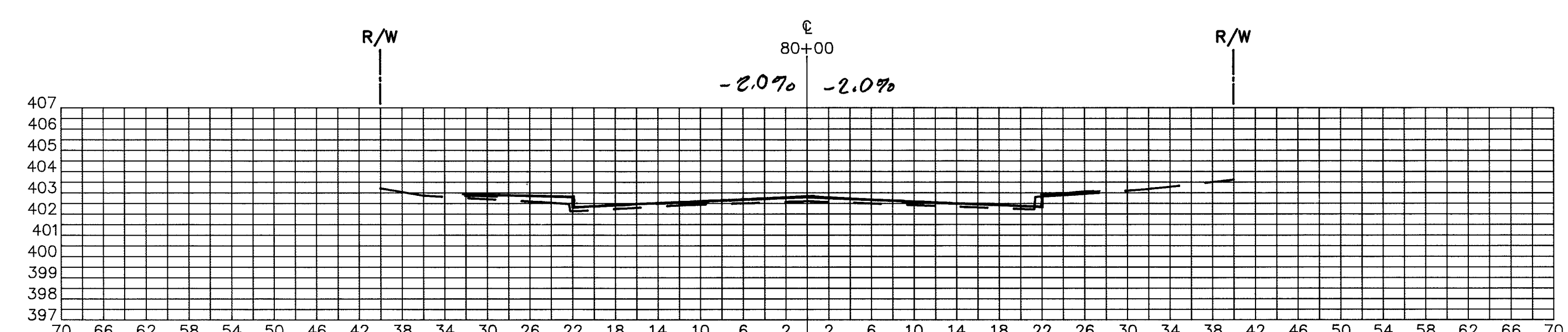
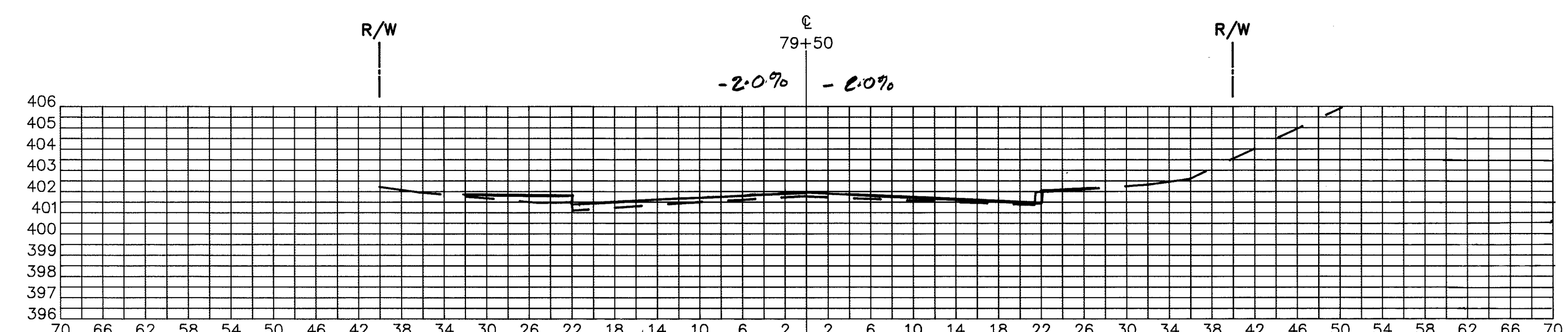
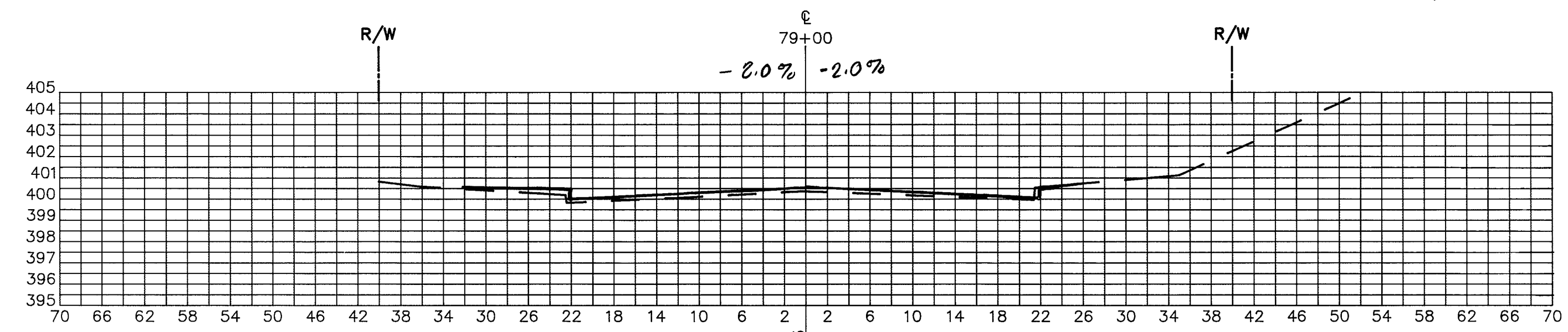
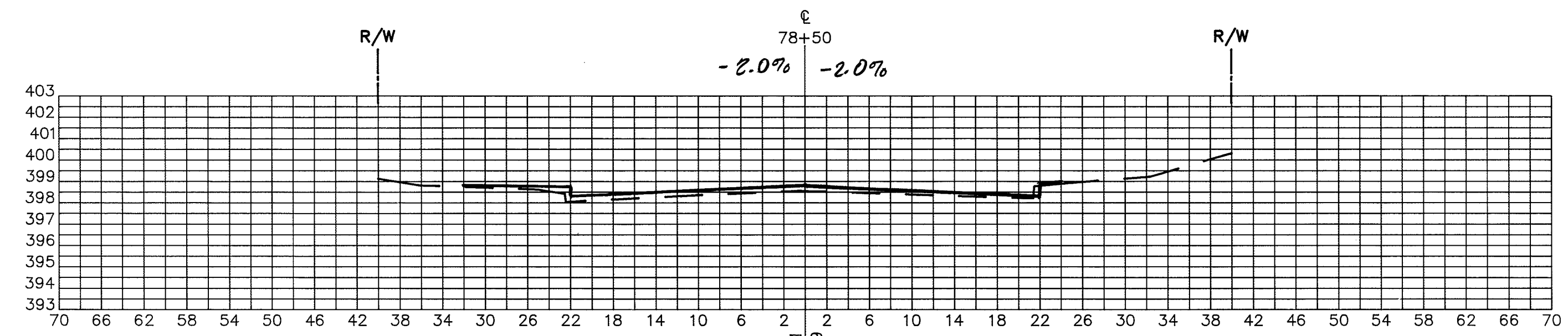
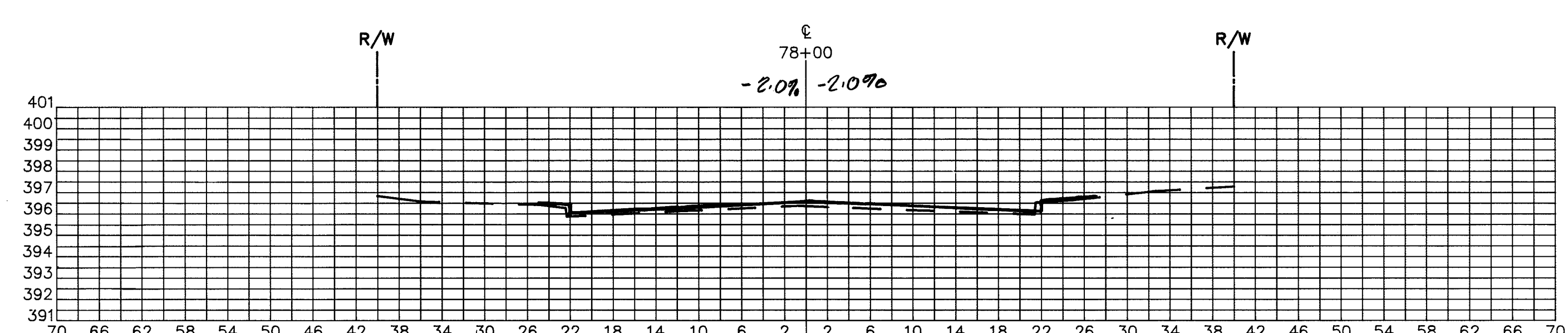
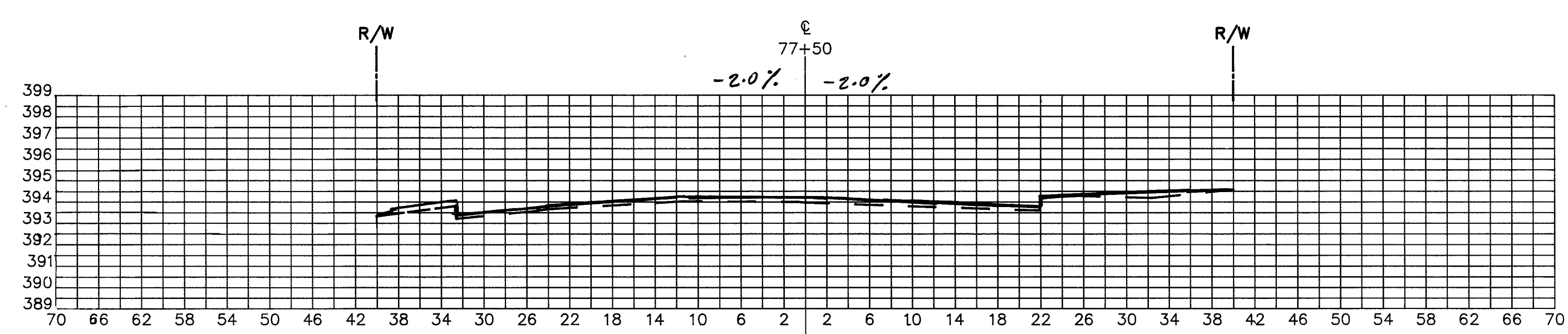
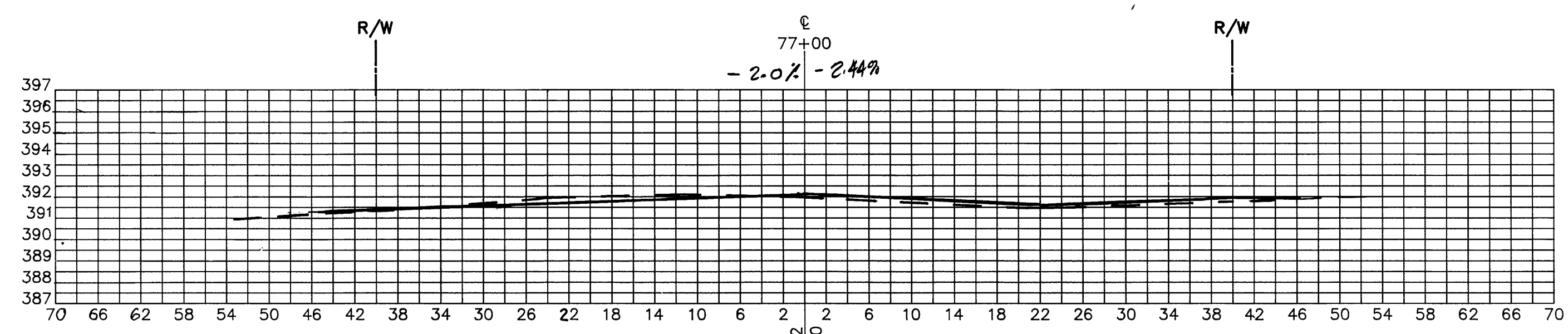
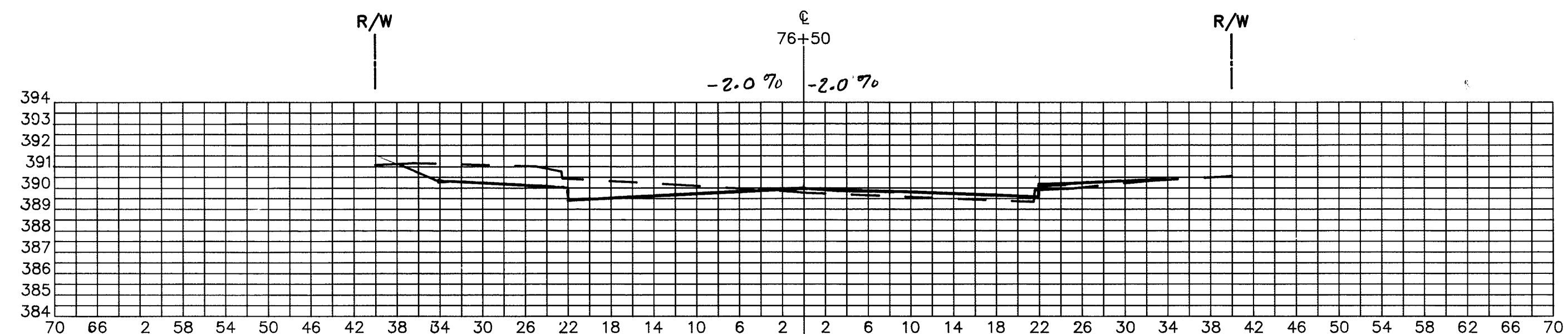
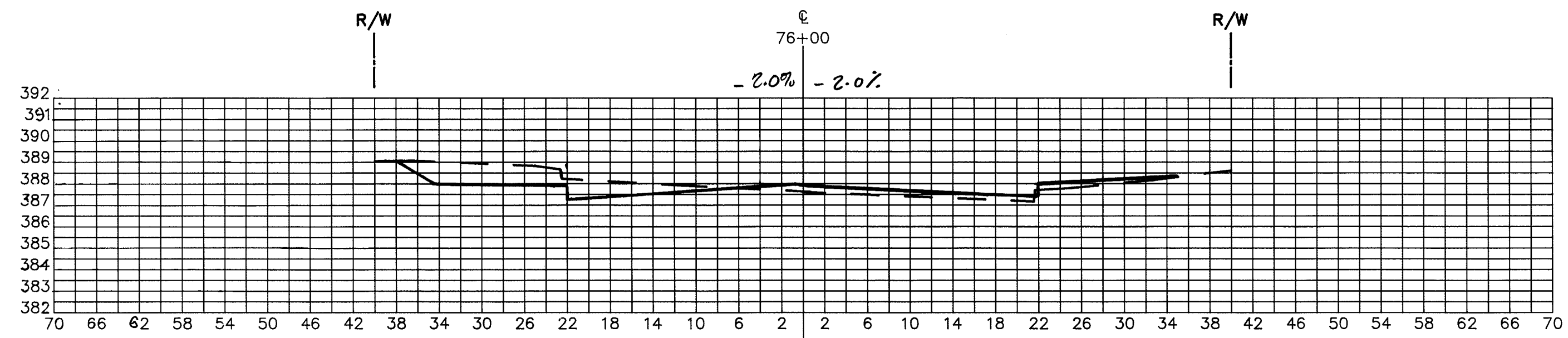
ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 71+00 TO 75+50
 HOWARD COUNTY, MARYLAND

SCALE: HORIZ. 1"=10'
 VERT. 1"=5'

CAPITAL PROJECT NO. J-4095

DATE: 12-00 SHEET: 15 of 24

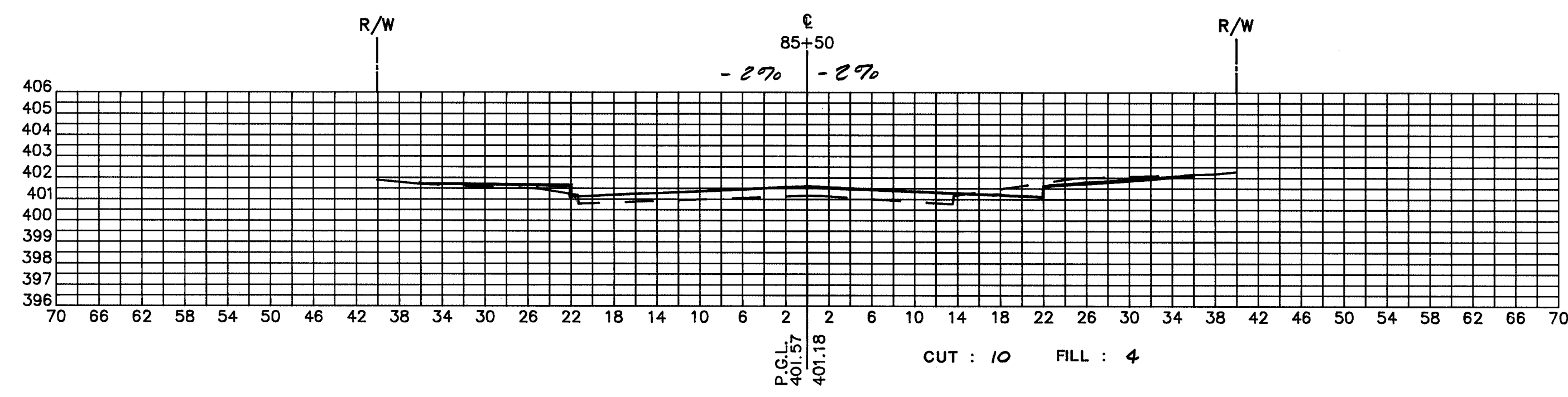
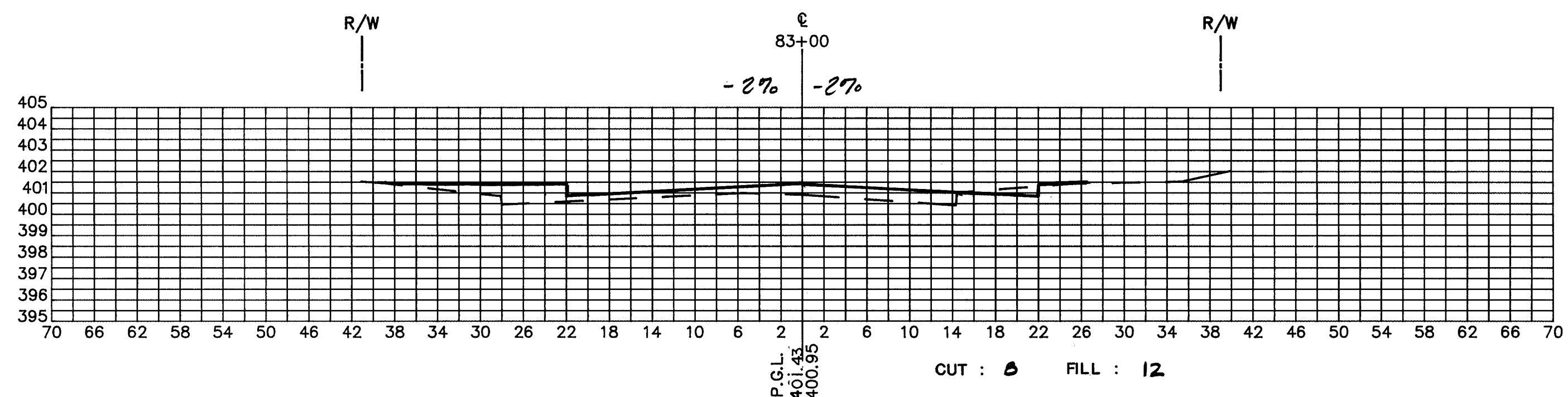
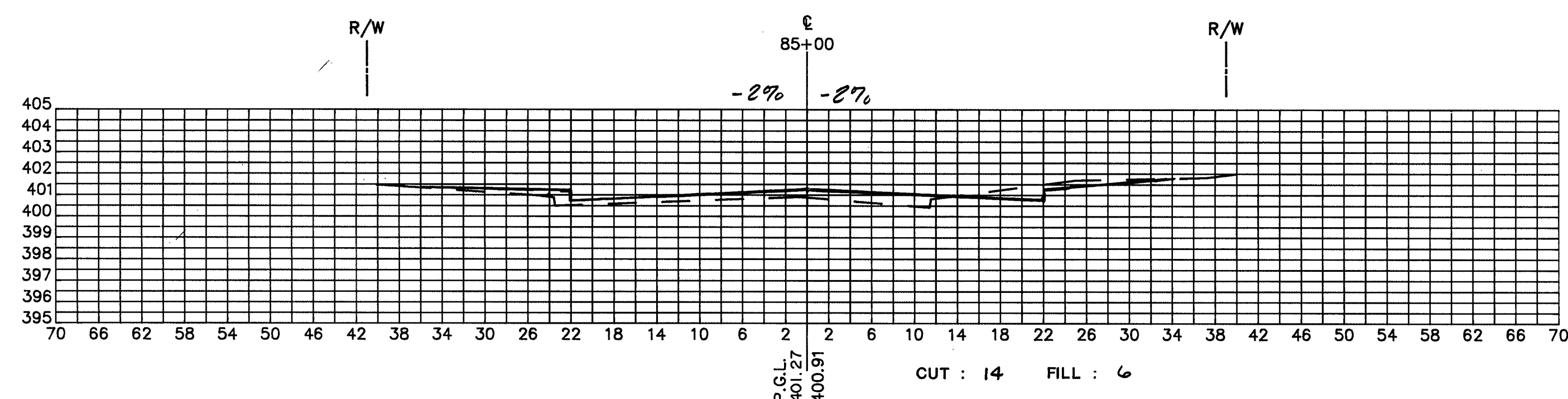
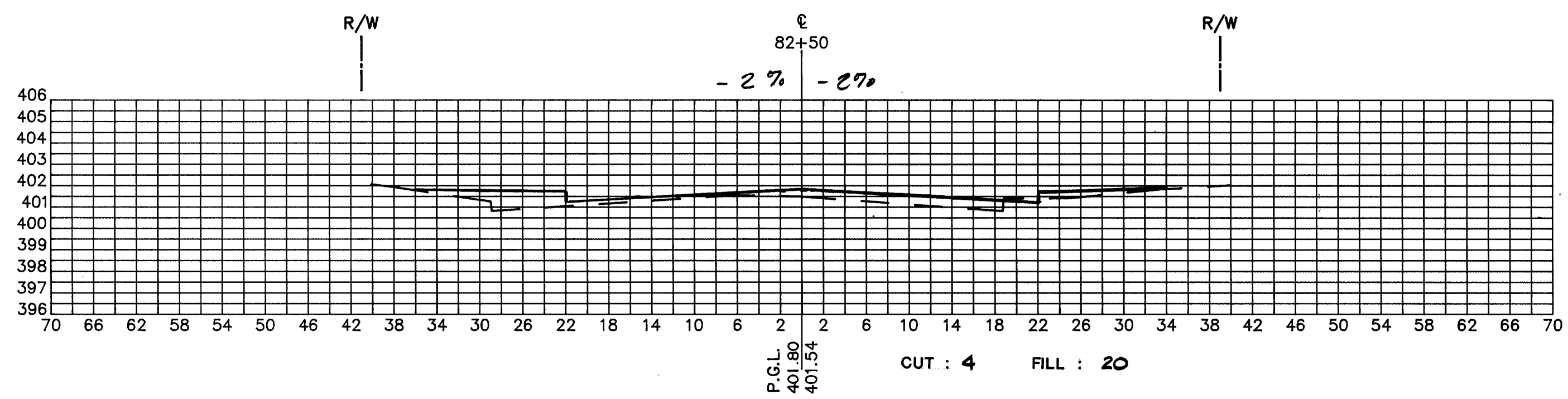
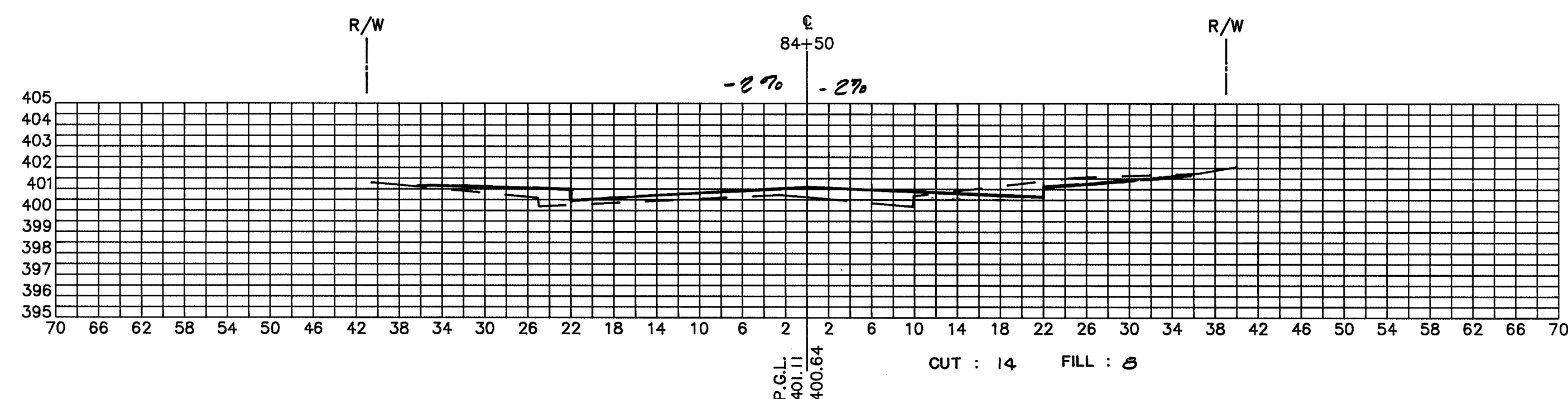
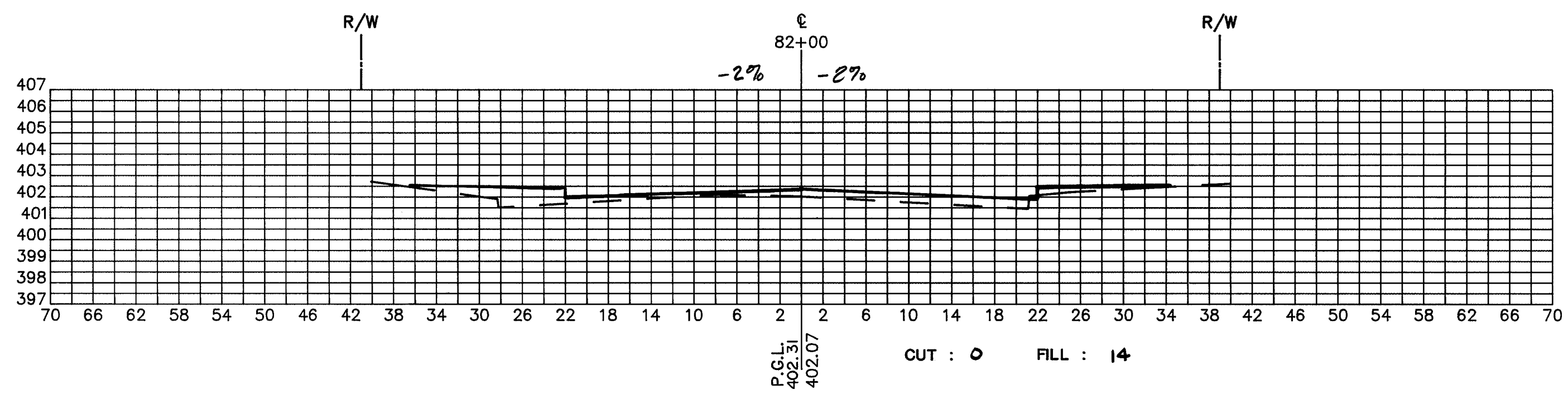
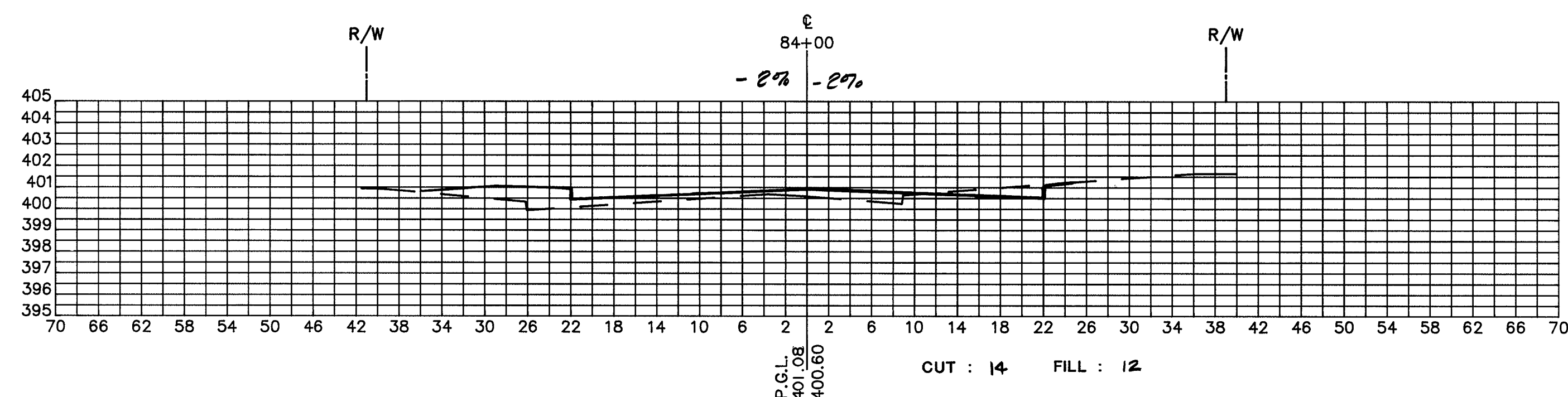
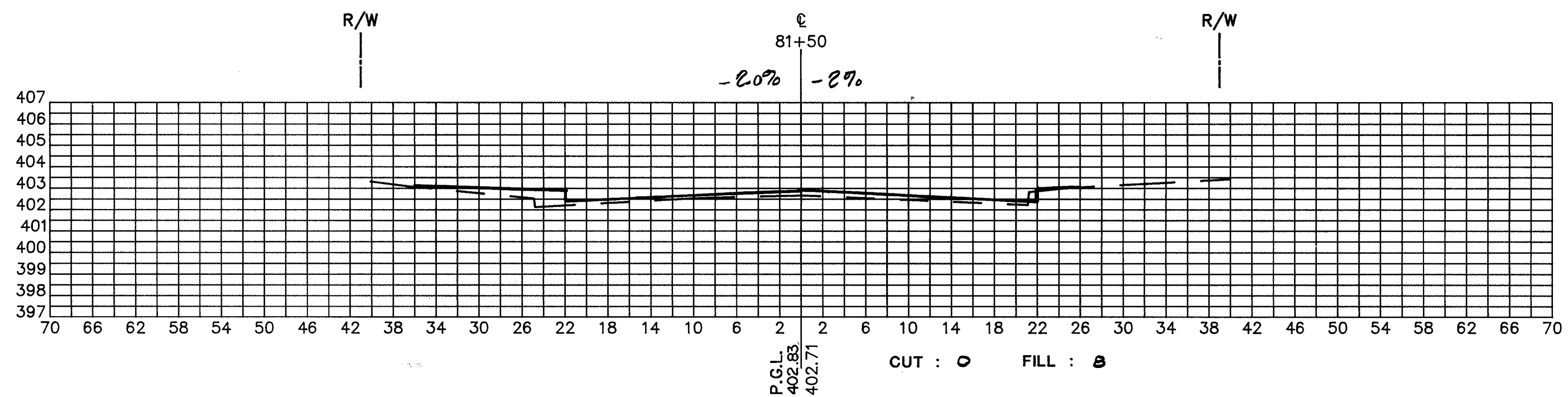
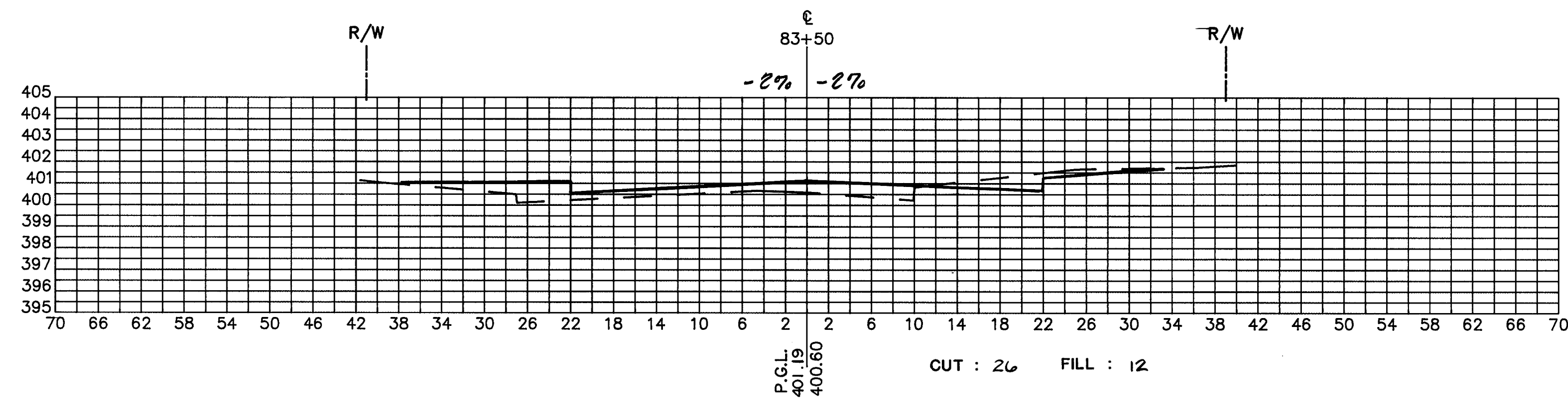
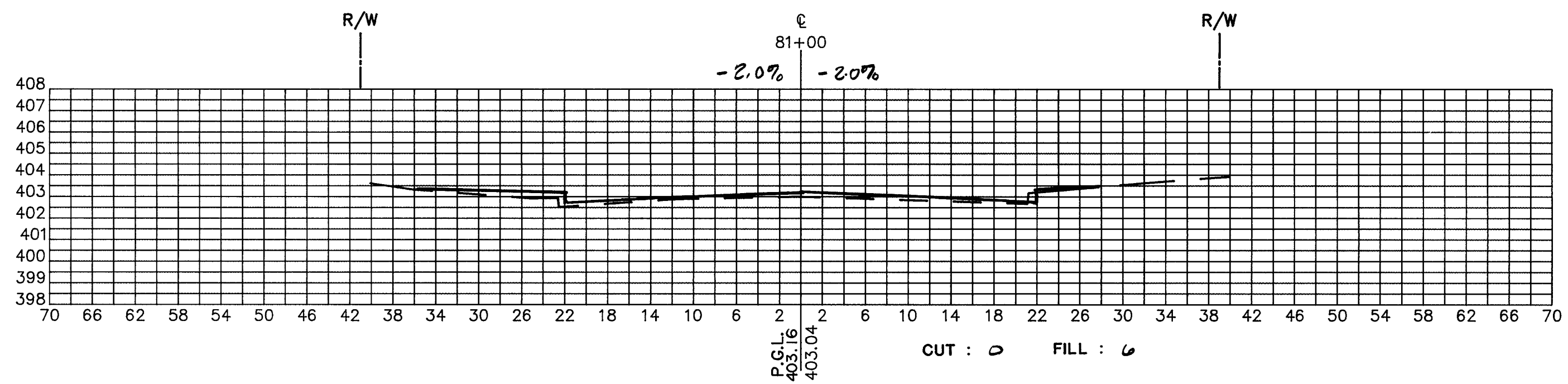


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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 76+00 TO 80+50
 HOWARD COUNTY, MARYLAND

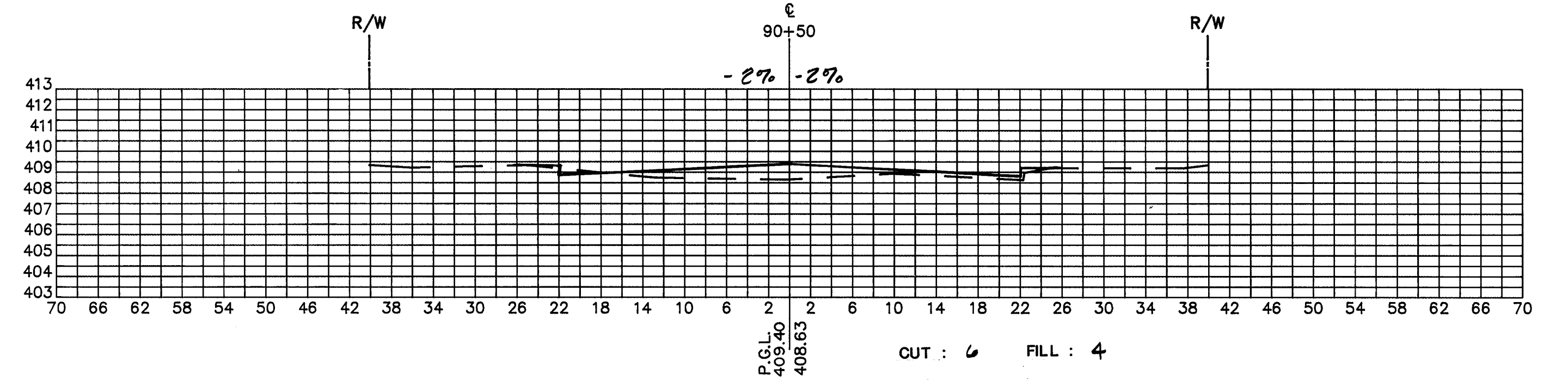
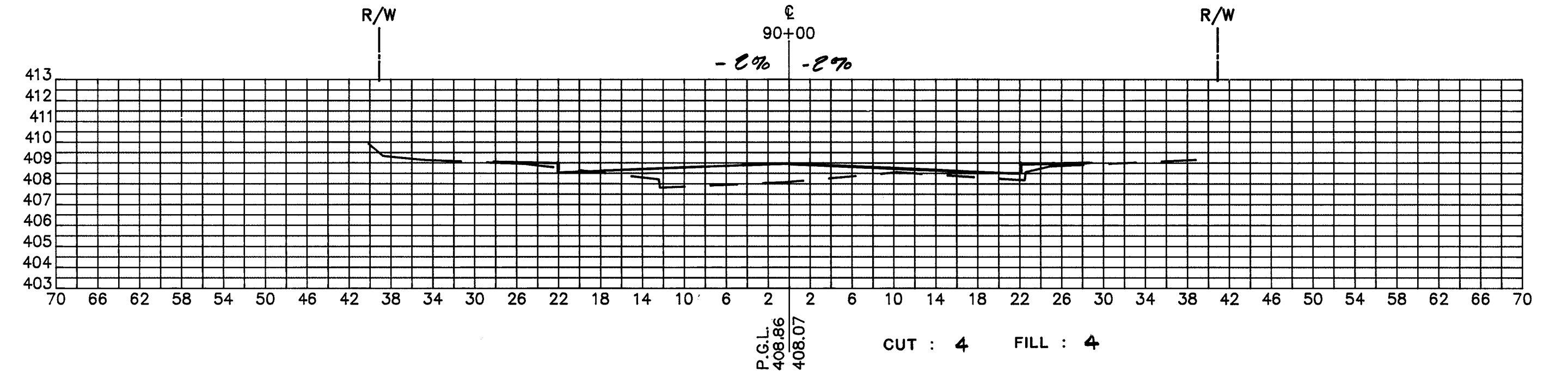
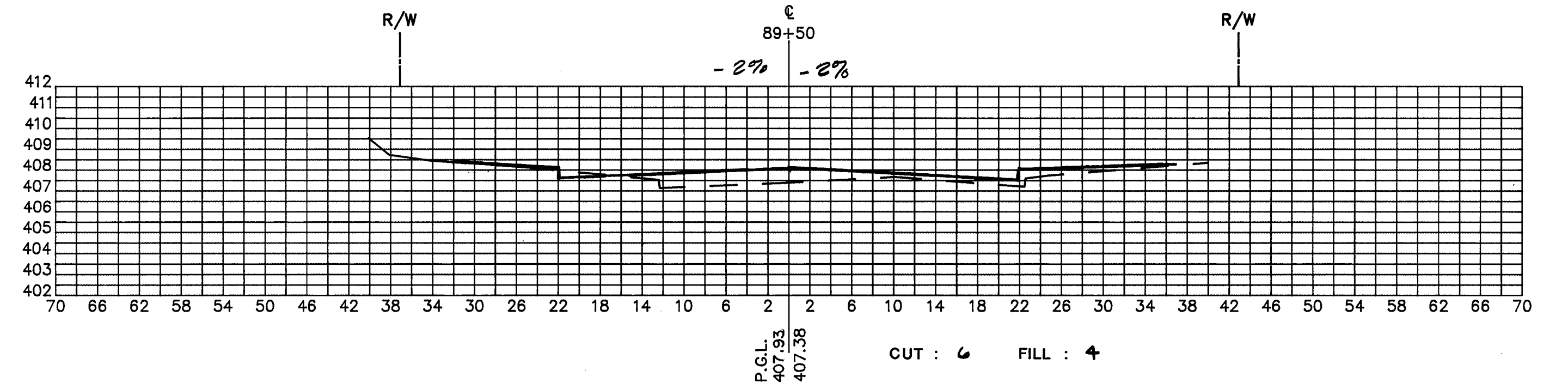
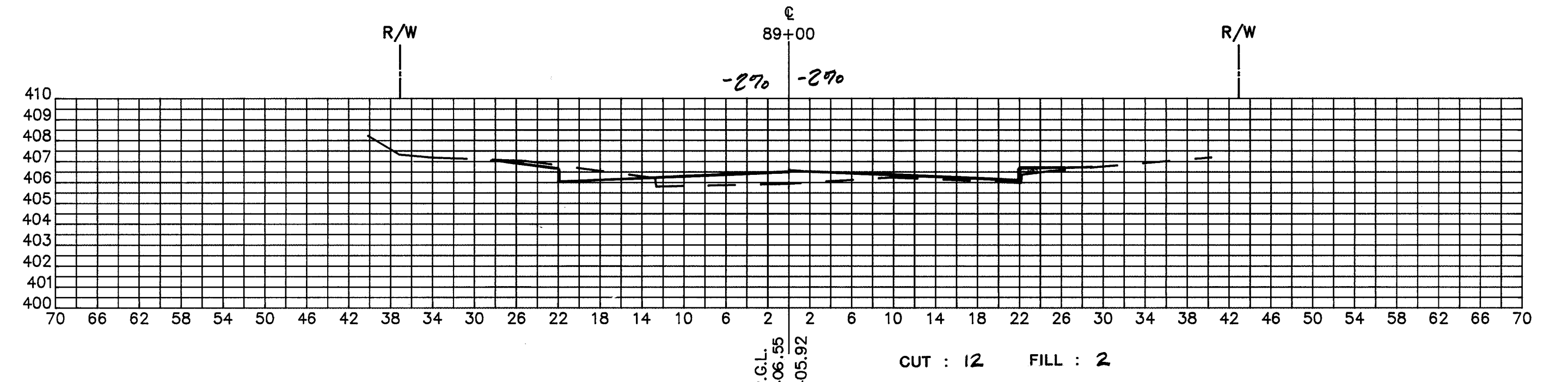
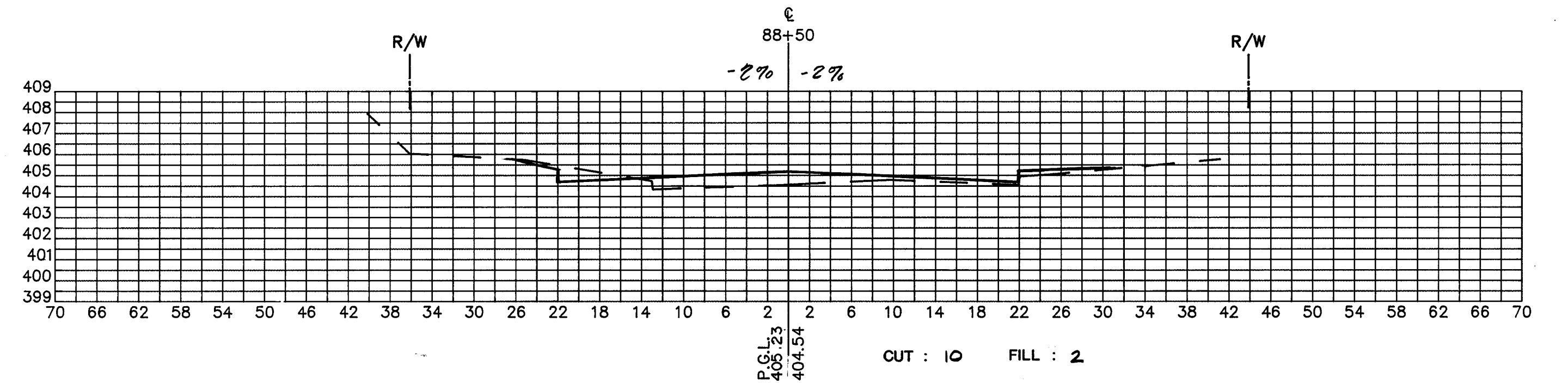
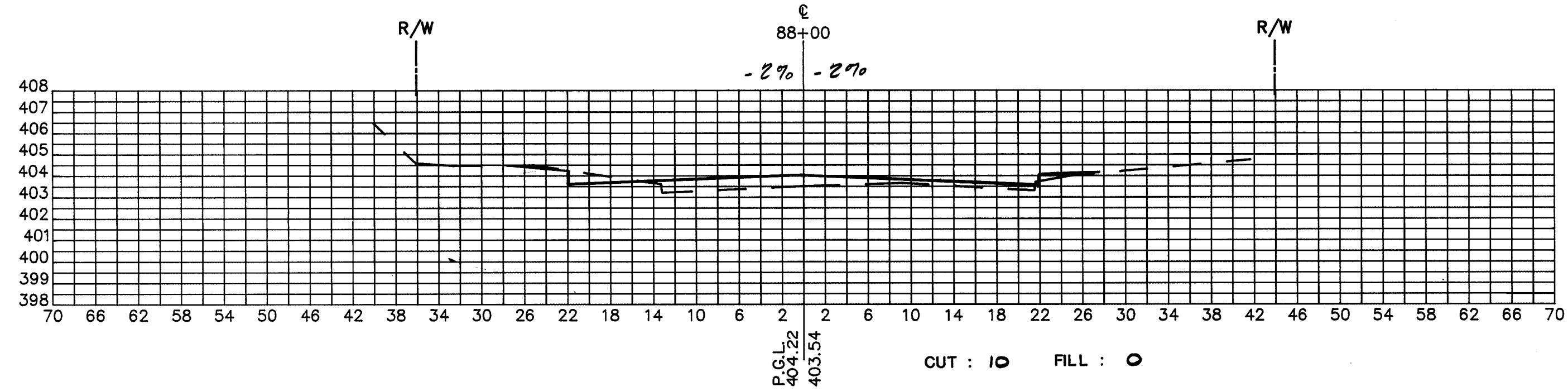
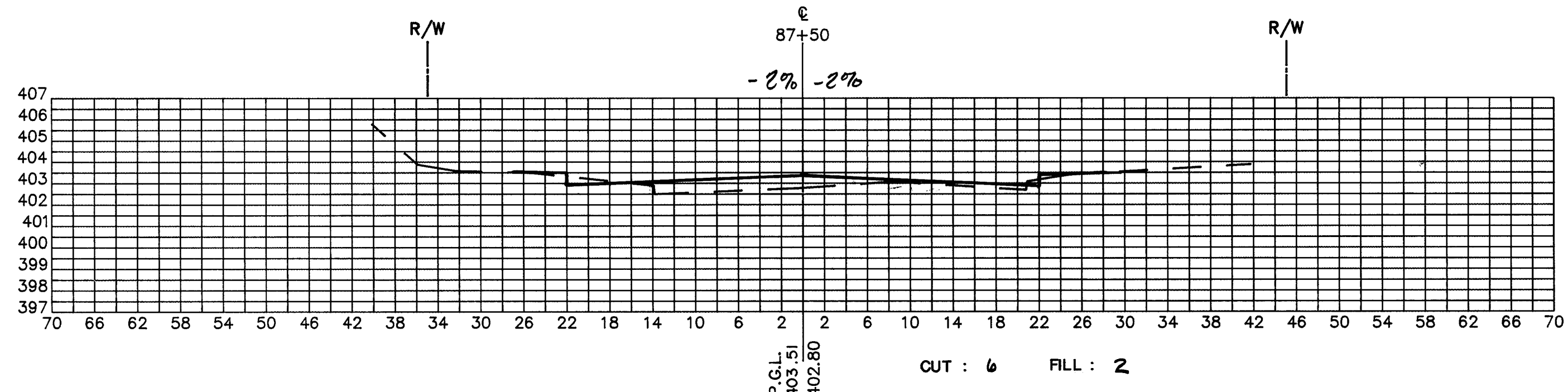
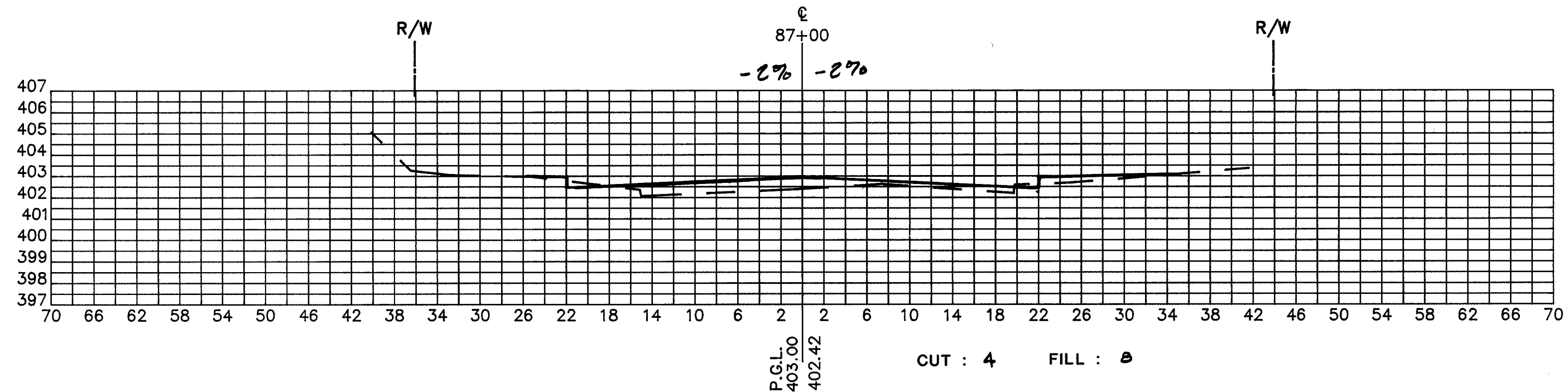
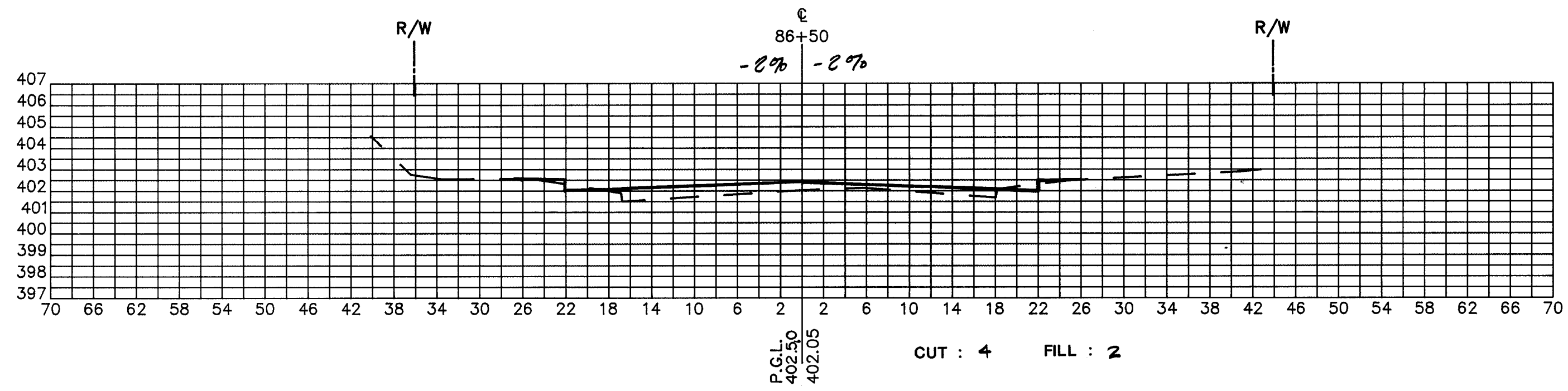
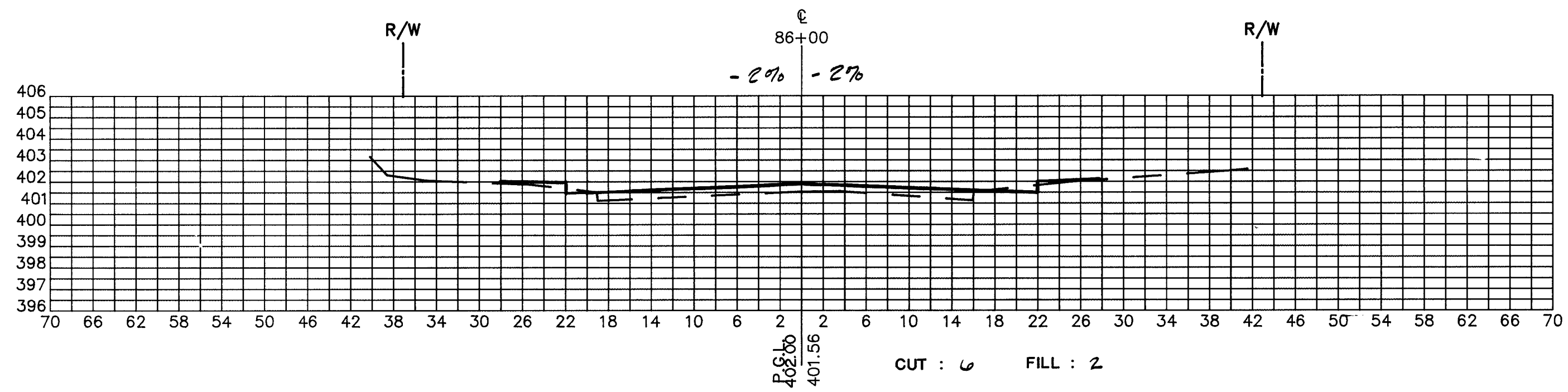


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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 81+00 TO 85+50
 HOWARD COUNTY, MARYLAND

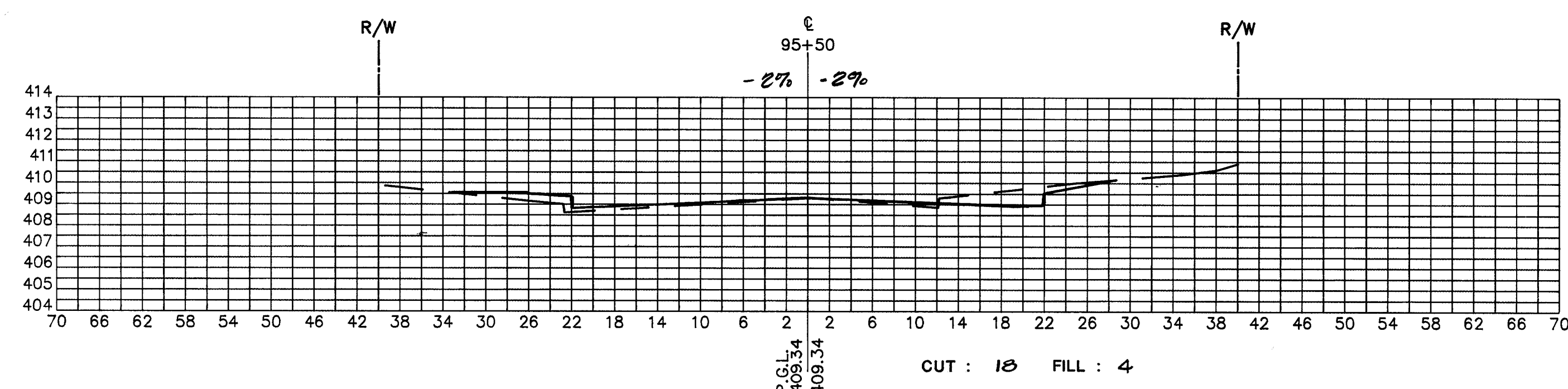
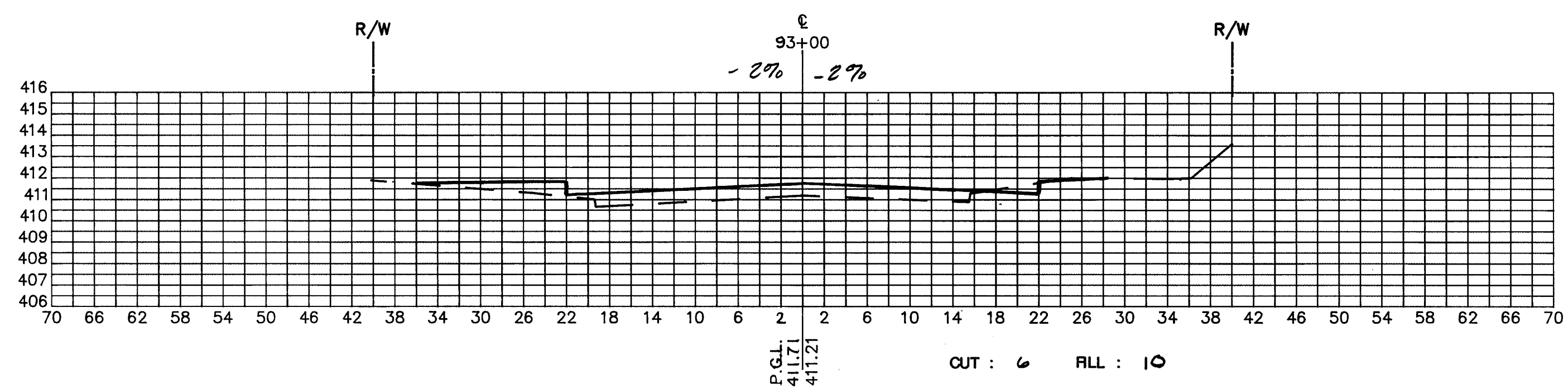
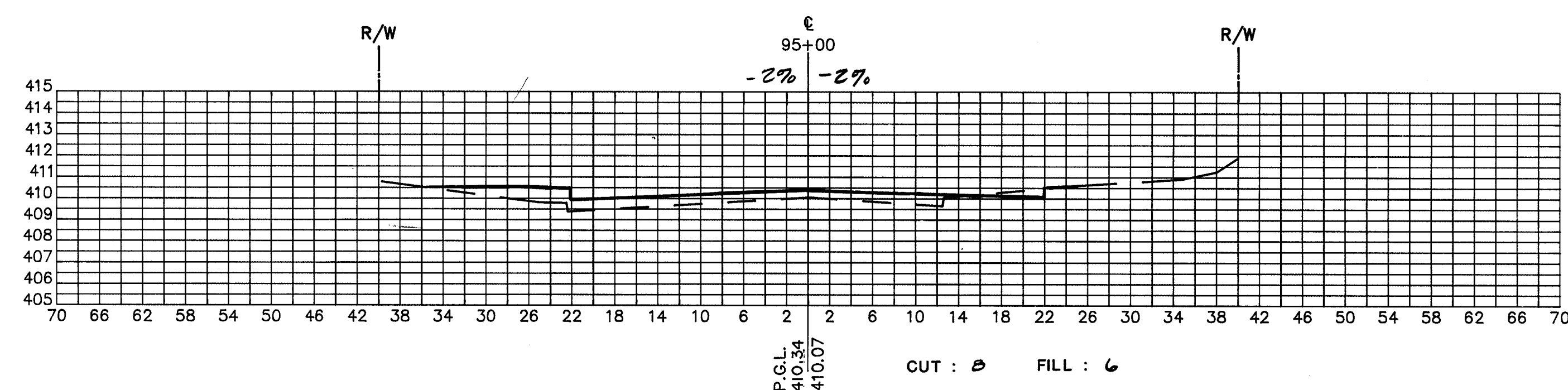
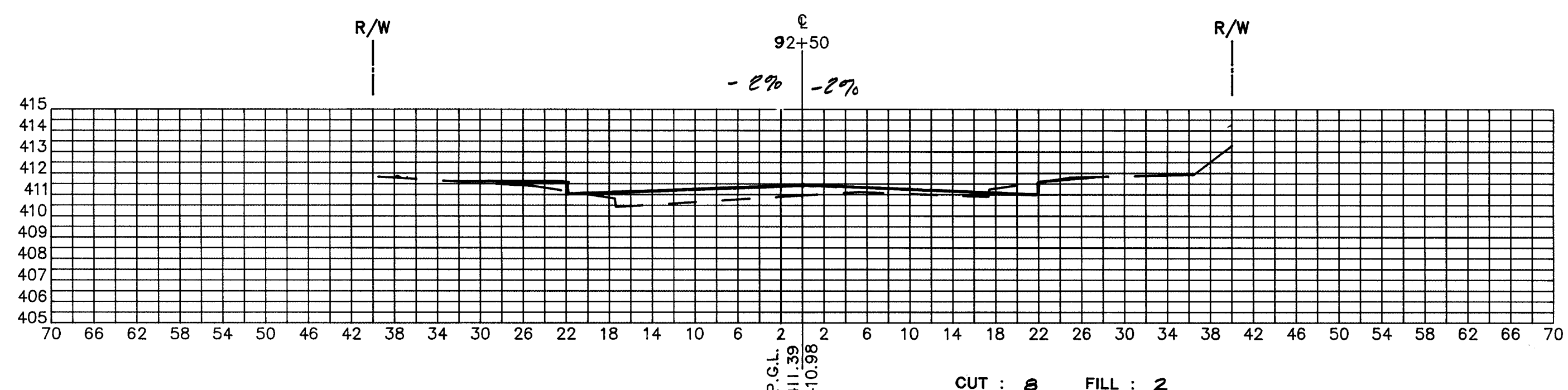
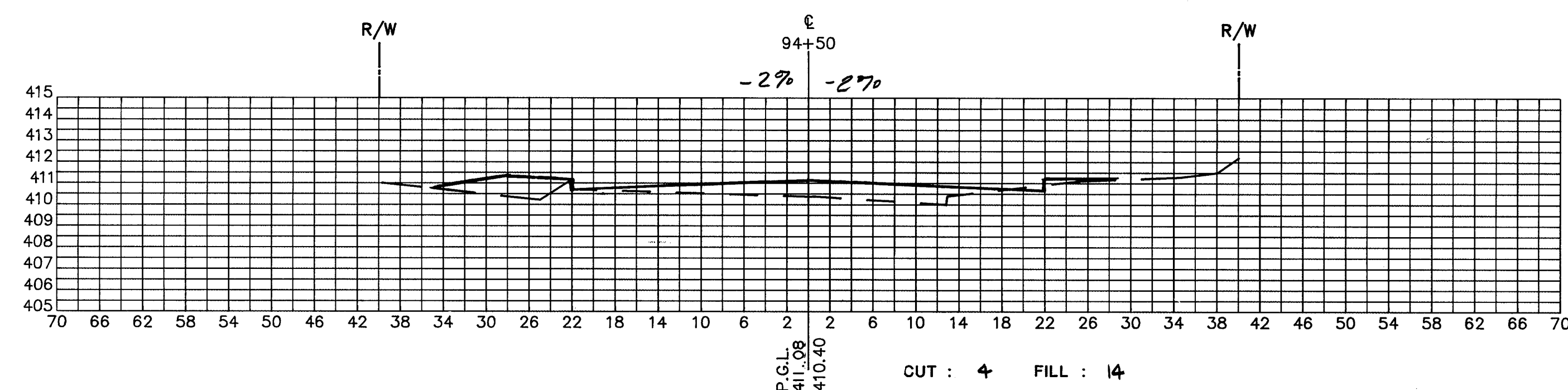
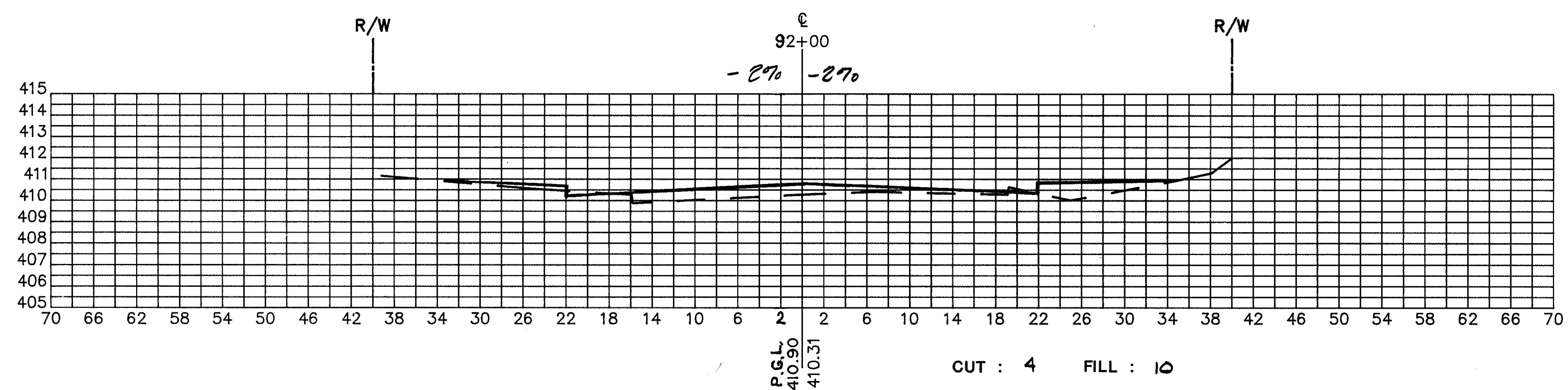
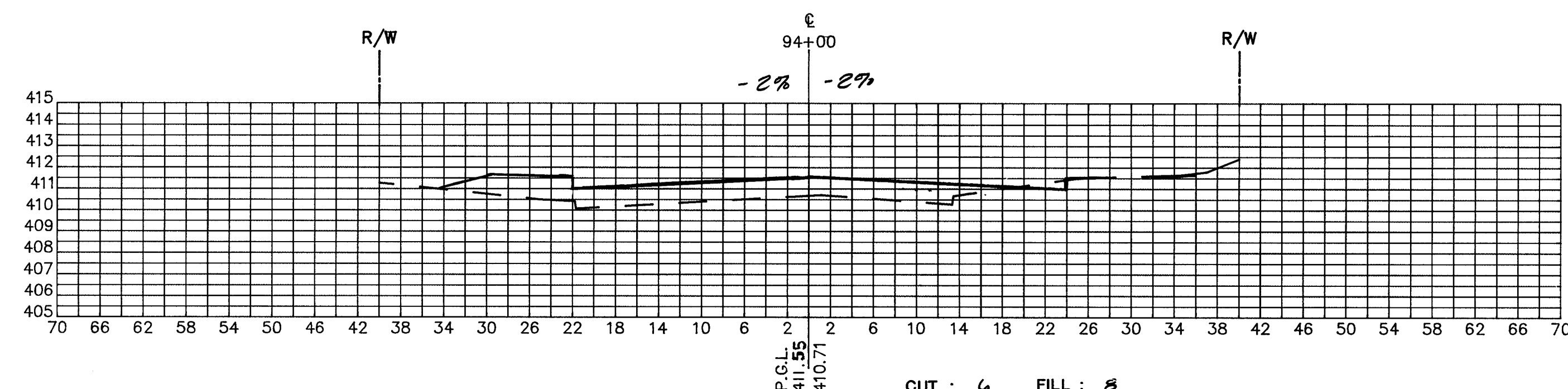
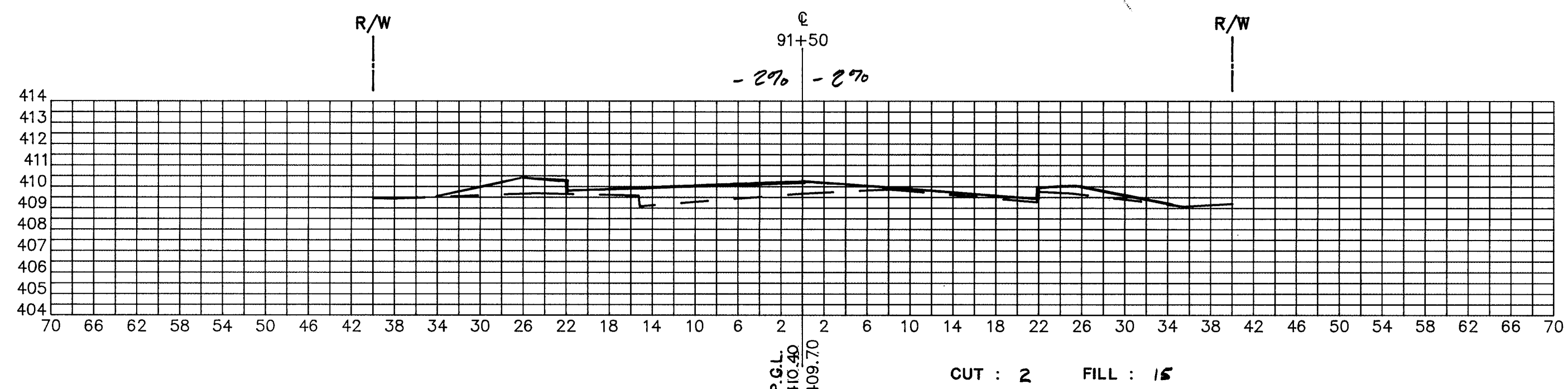
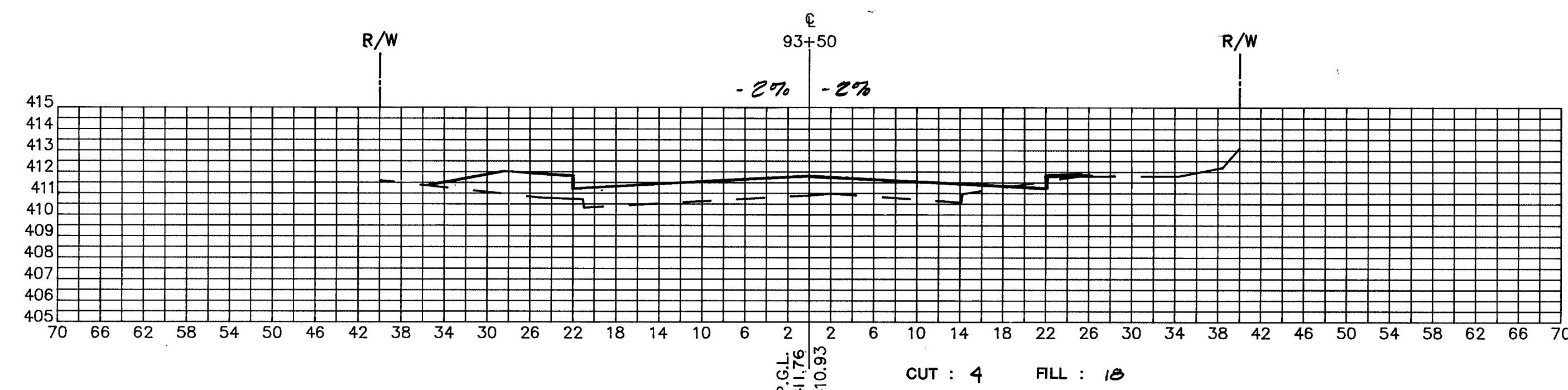
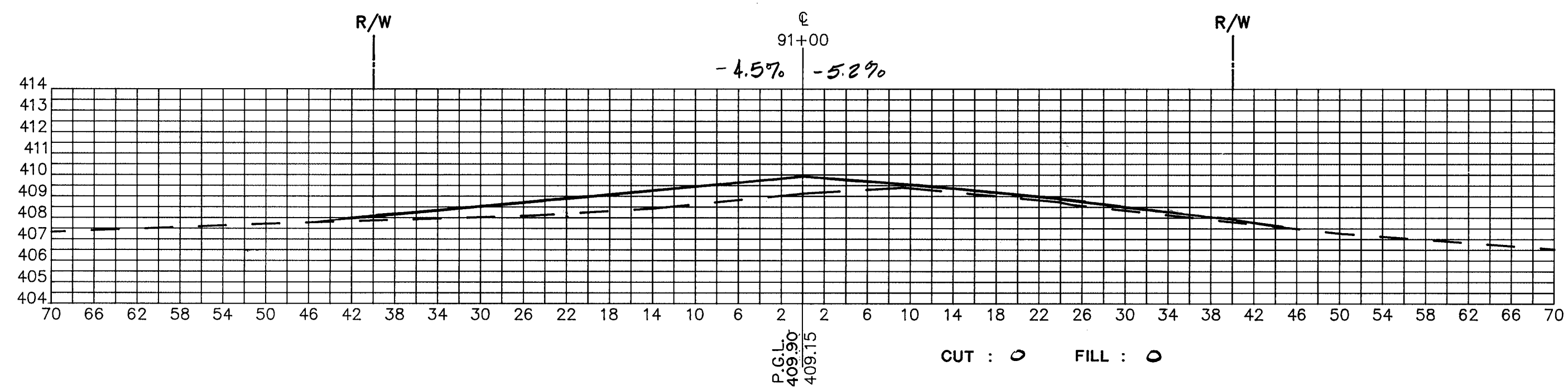


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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 86+00 TO 90+50
 HOWARD COUNTY, MARYLAND



1091

| DESIGNED | | DATE | | REVISIONS | |
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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

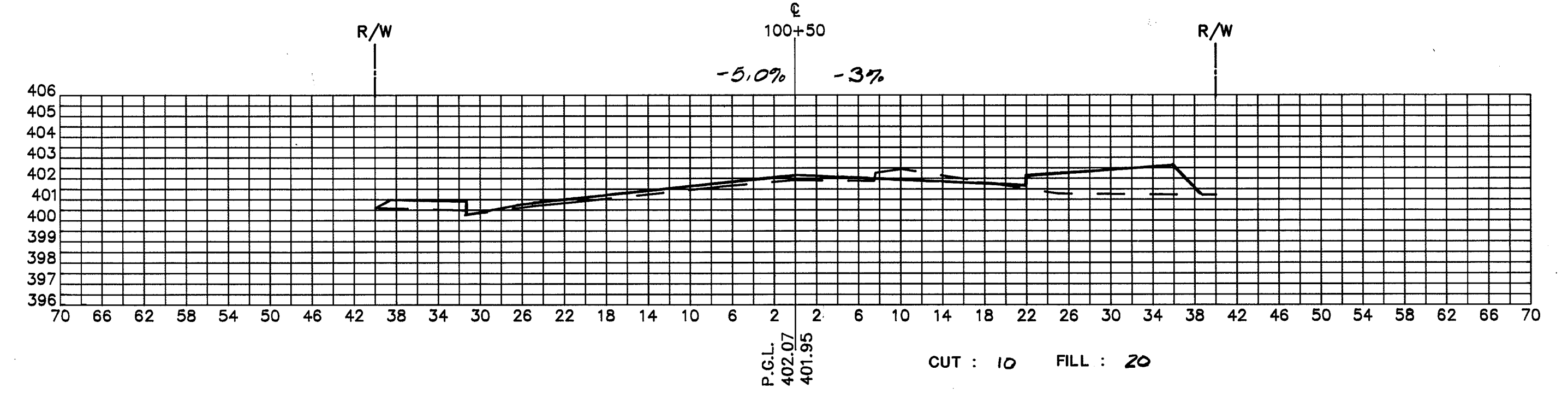
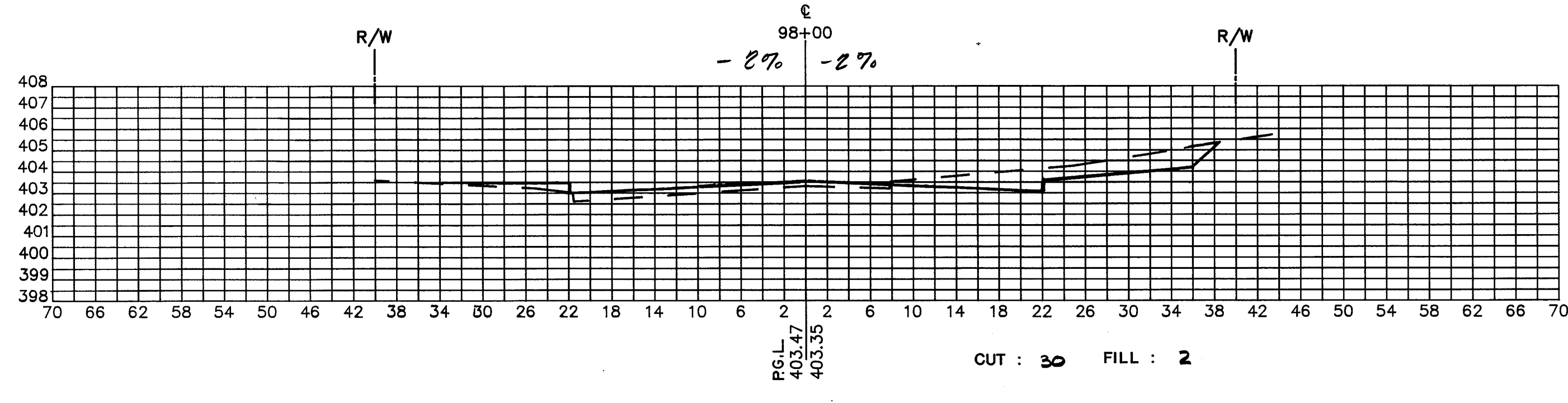
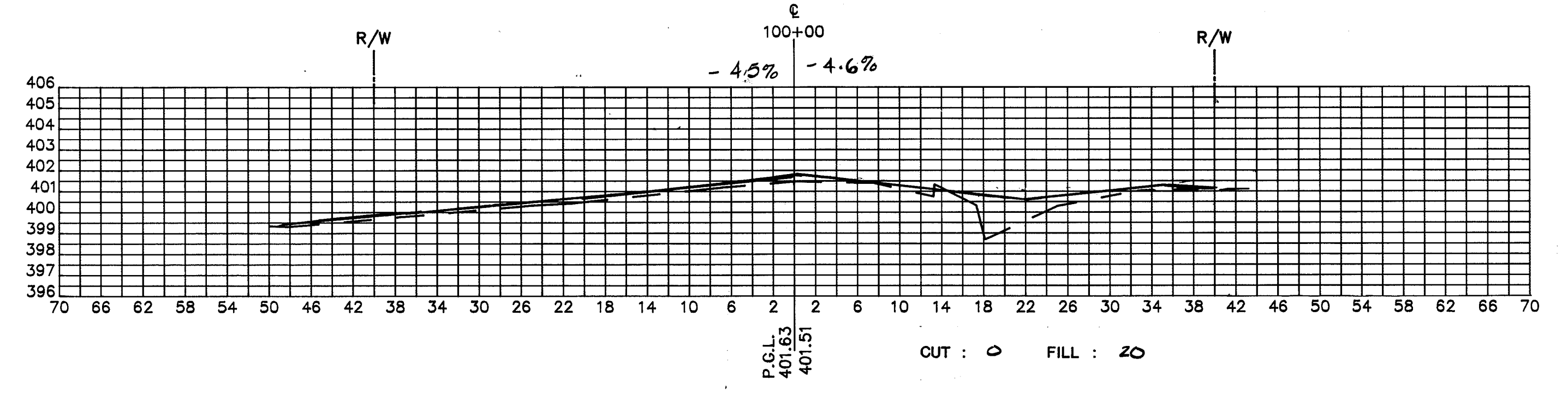
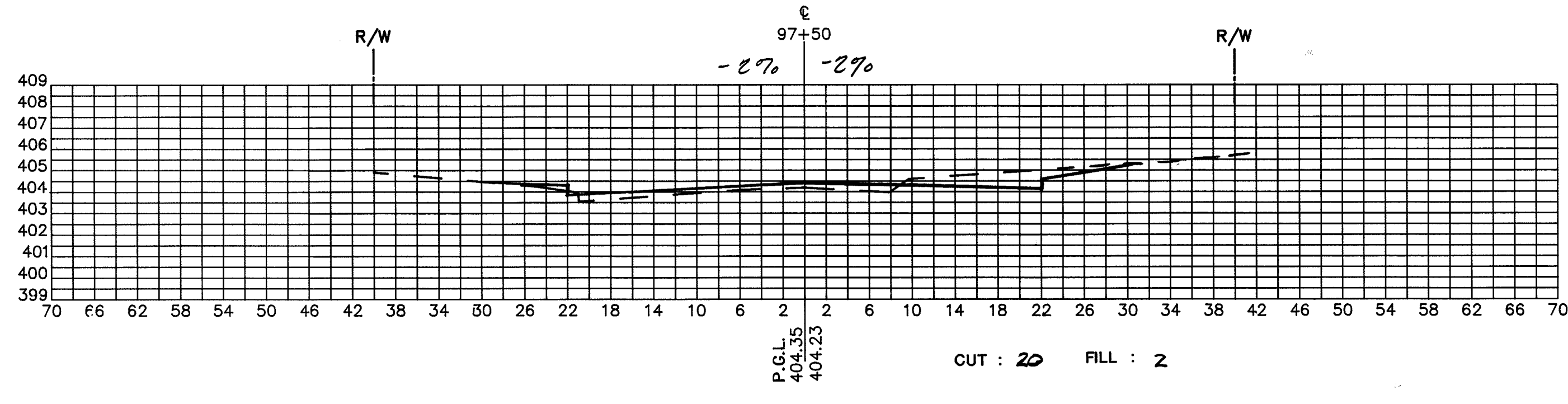
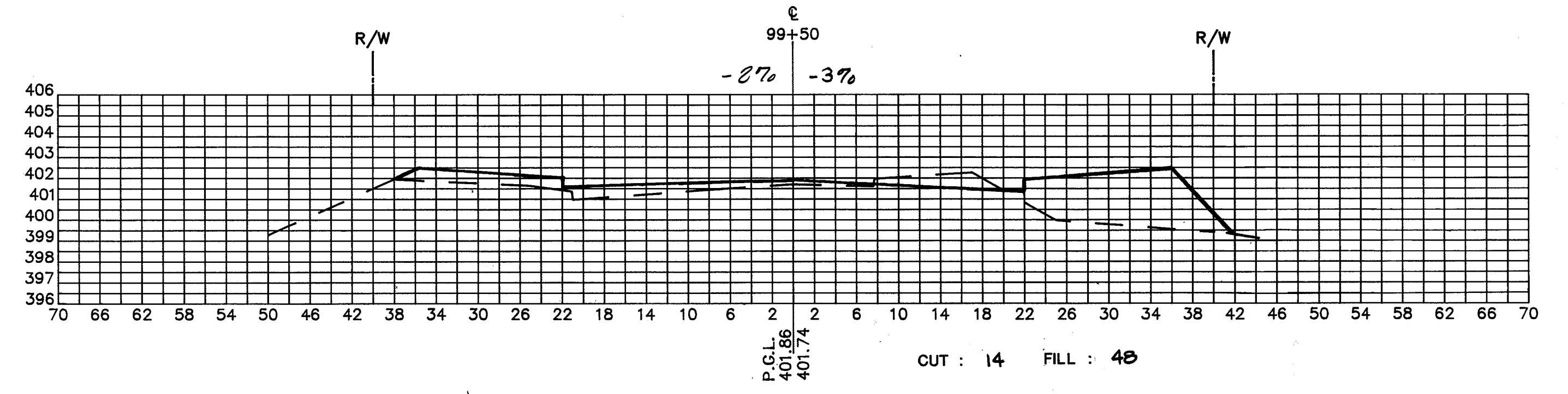
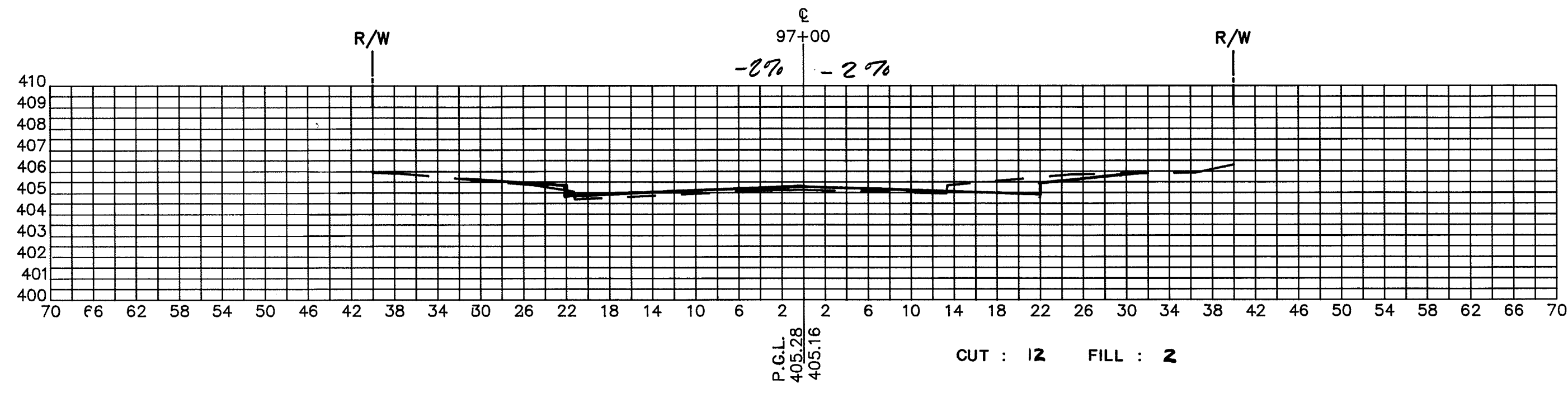
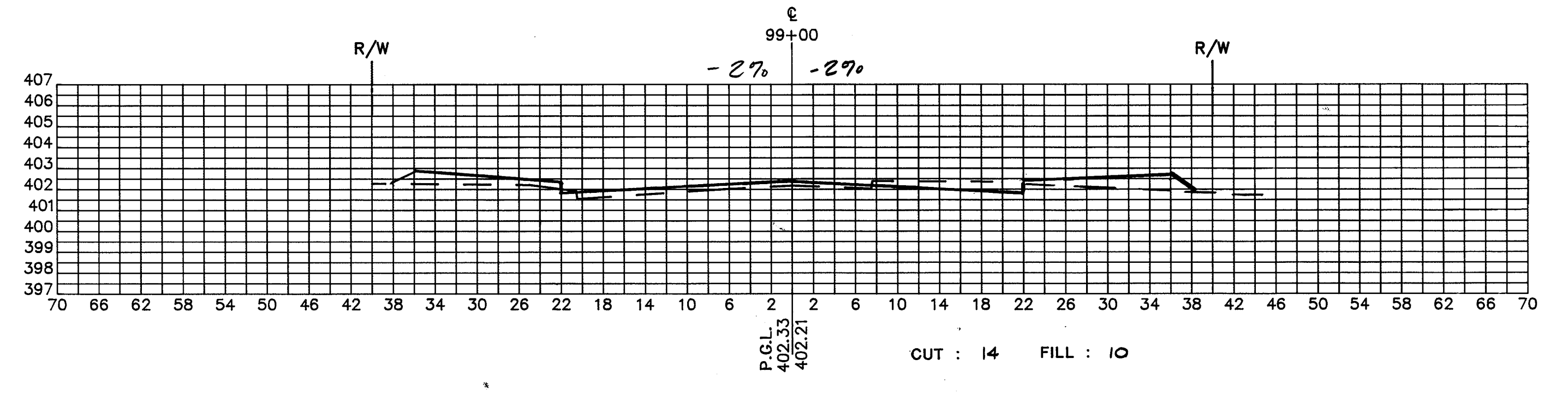
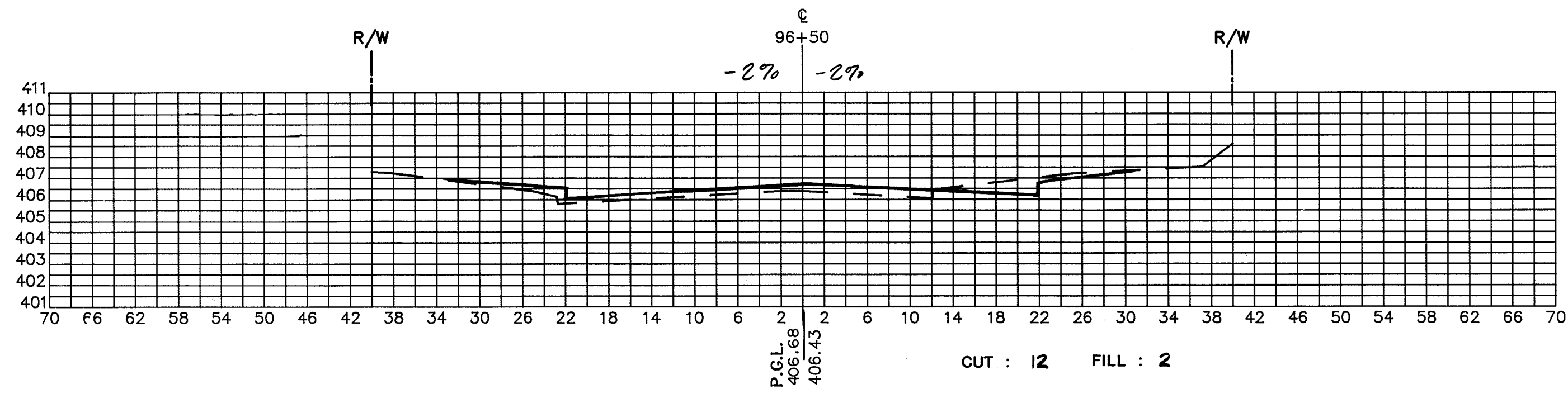
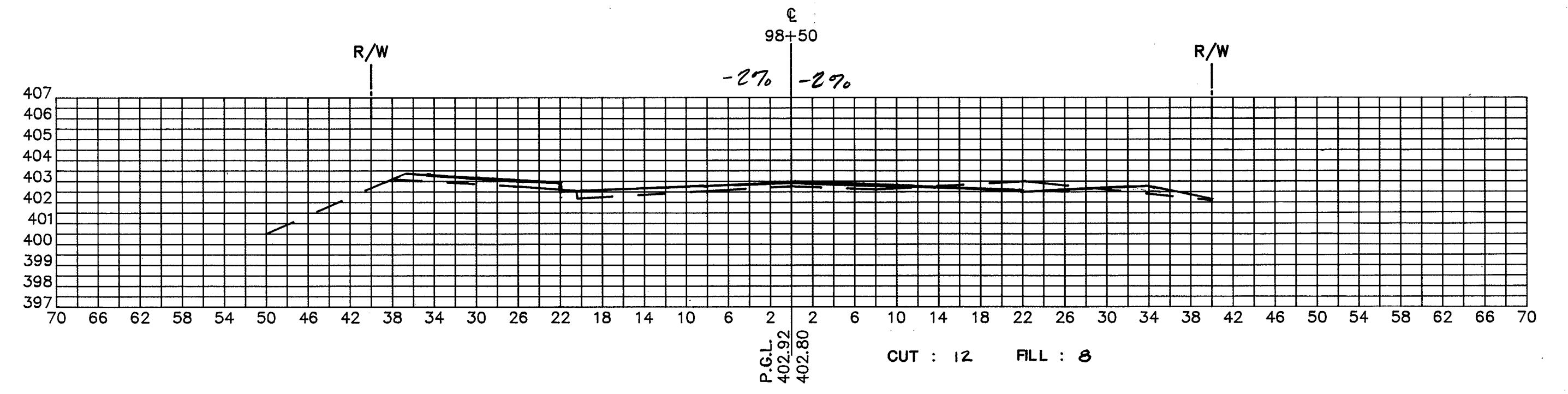
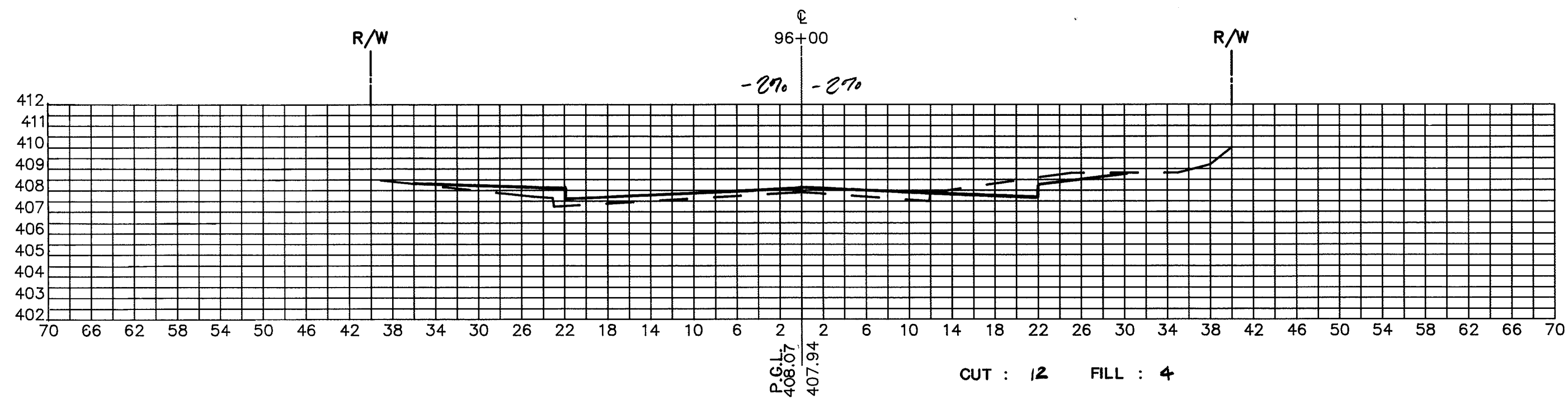
OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 91+00 TO 95+50
 HOWARD COUNTY, MARYLAND

SCALE: HORIZ. 1"=10'
 VERT. 1"=5'

CAPITAL PROJECT NO. J-4095

DATE: 12-89

SHEET: 19 of 24



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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
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 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 96+00 TO 100+50
 HOWARD COUNTY, MARYLAND

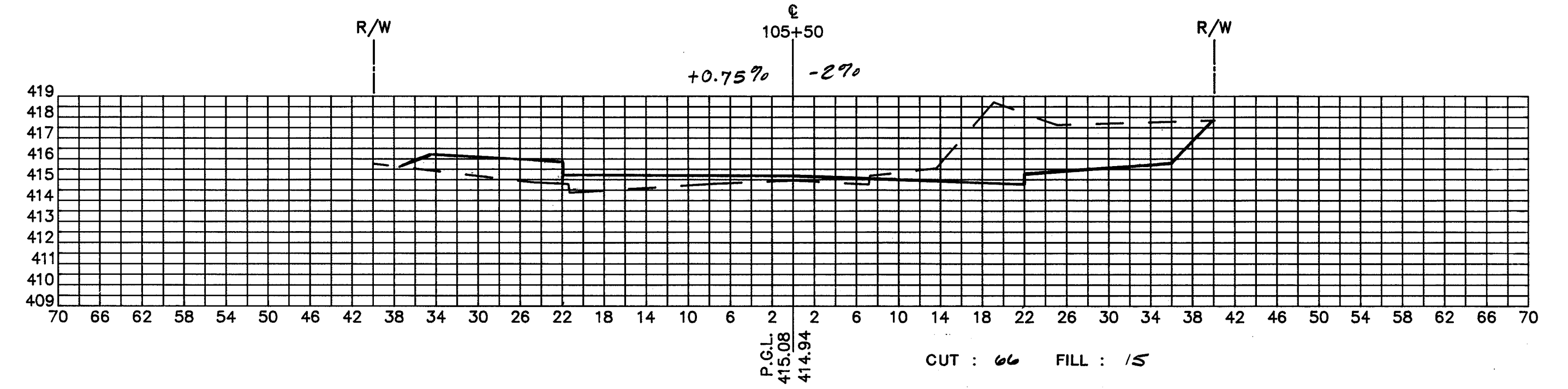
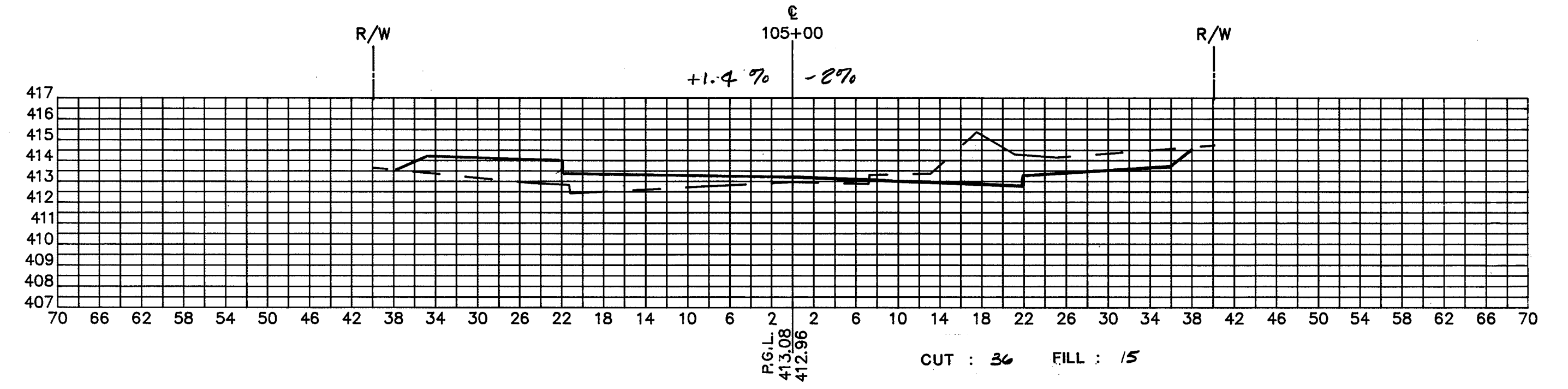
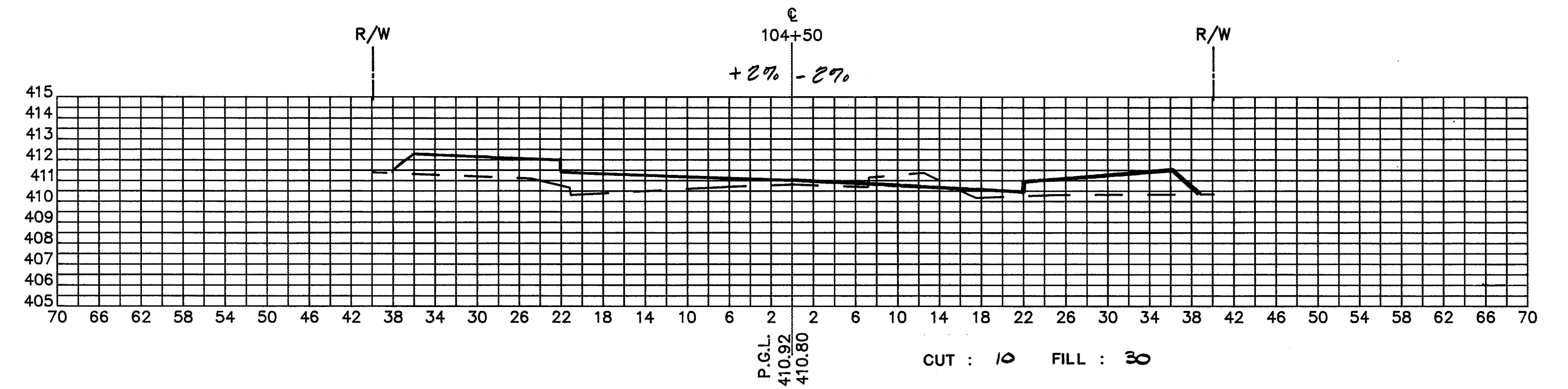
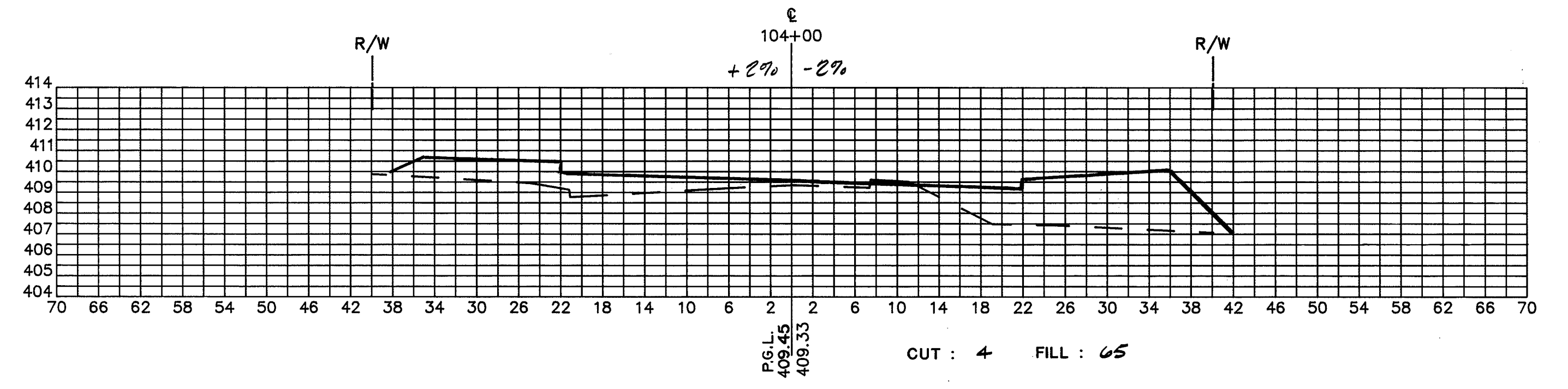
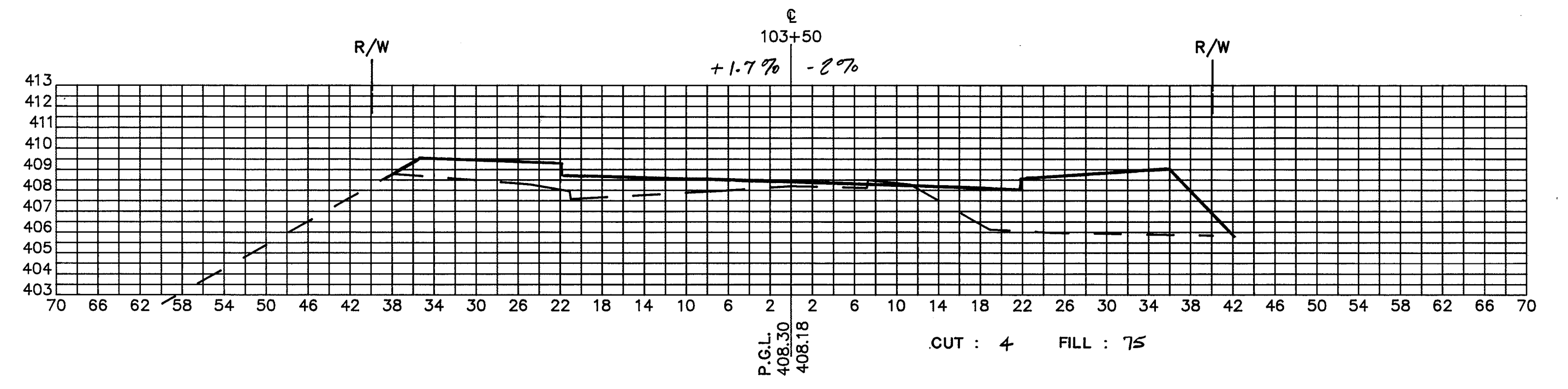
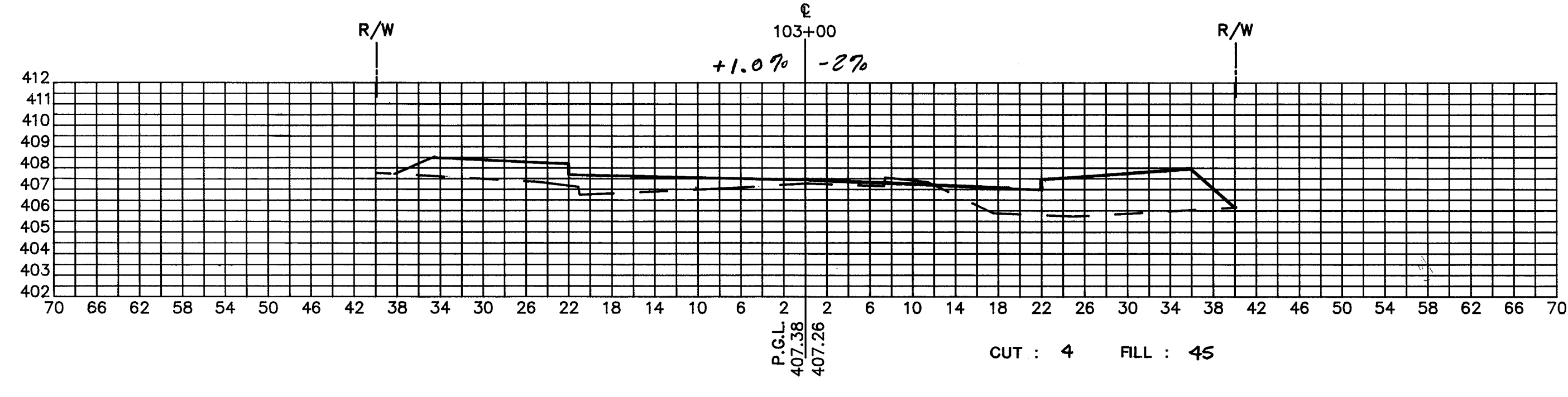
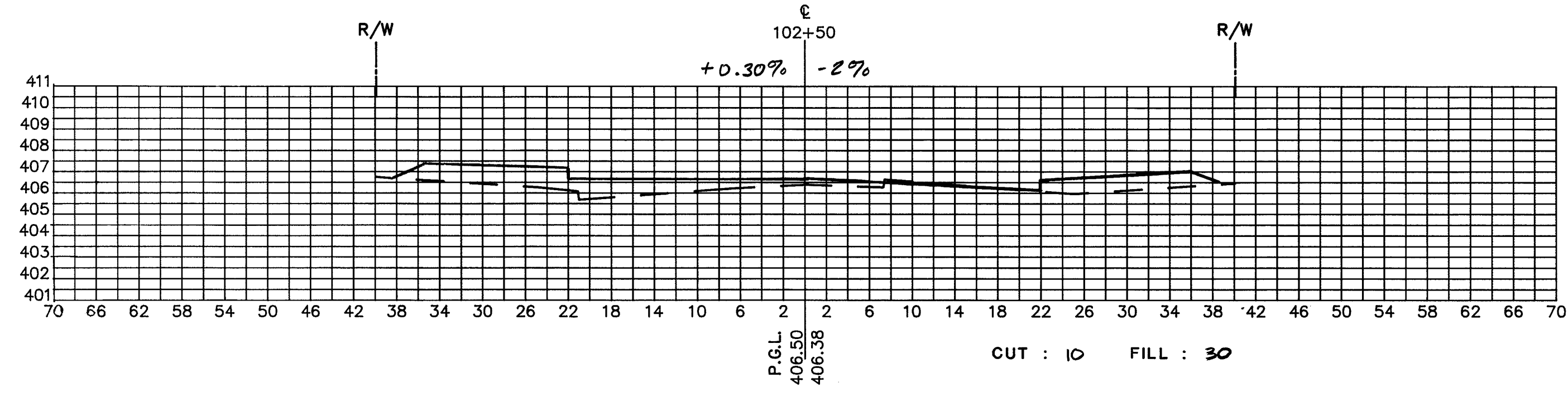
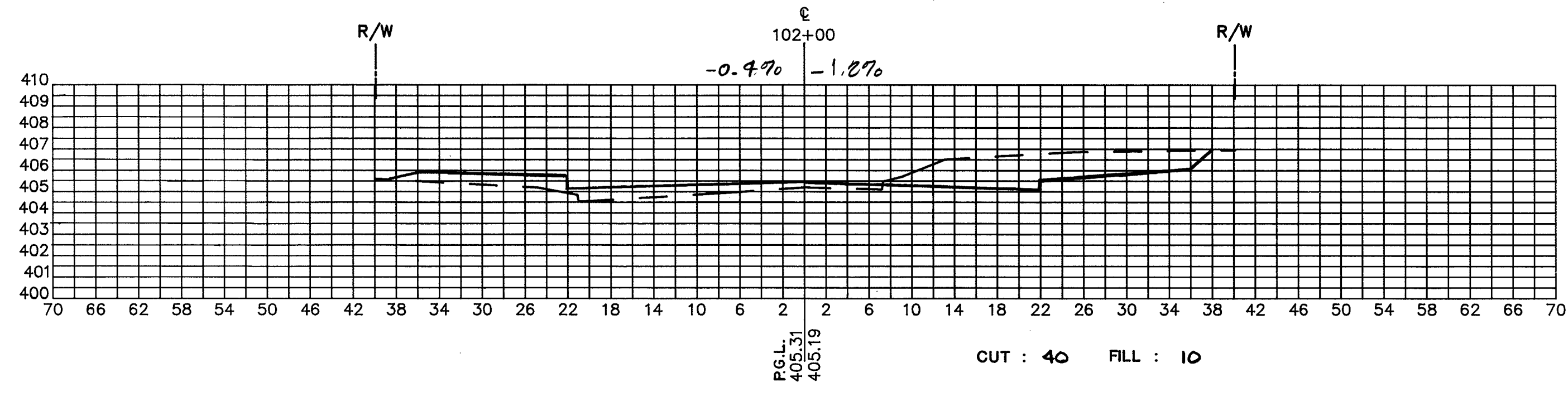
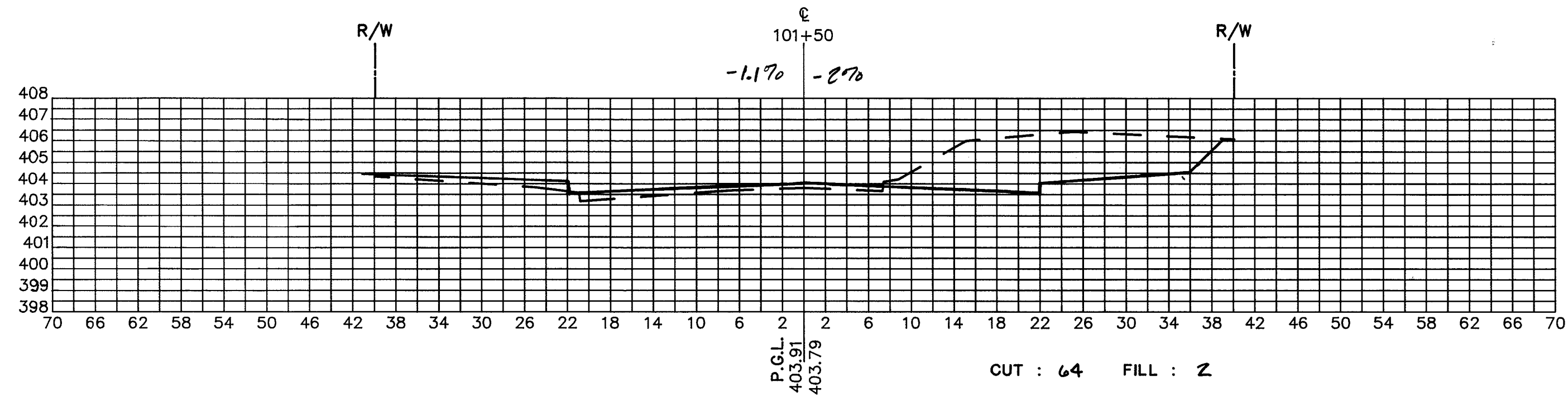
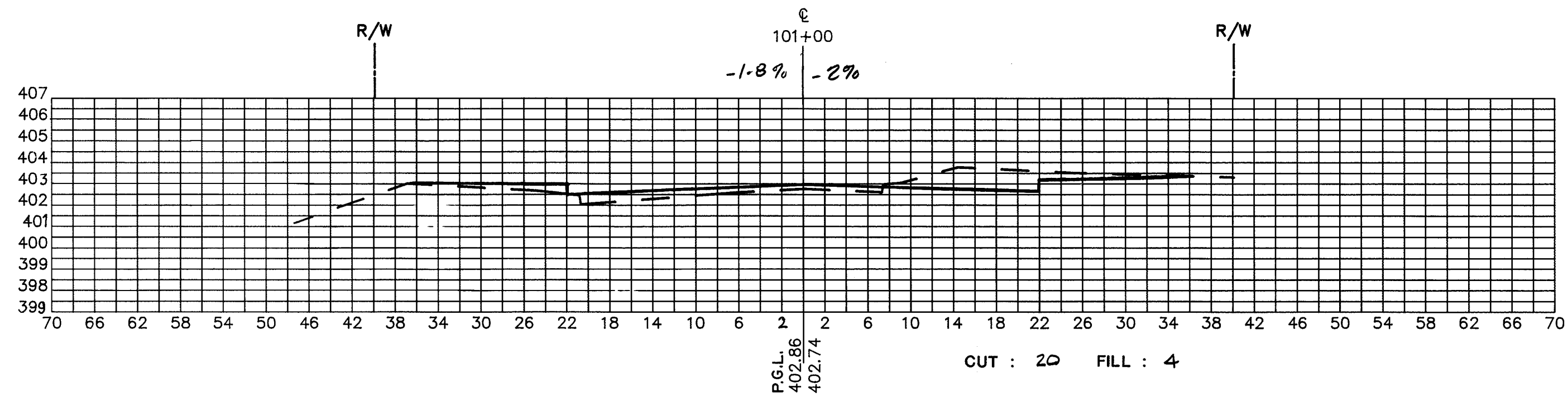
SCALE: HORIZ. 1"=10'
VERT. 1"=5'

CAPITAL PROJECT NO. J-4095

DATE: 12-80

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1001



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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 101+00 TO 105+50
 HOWARD COUNTY, MARYLAND

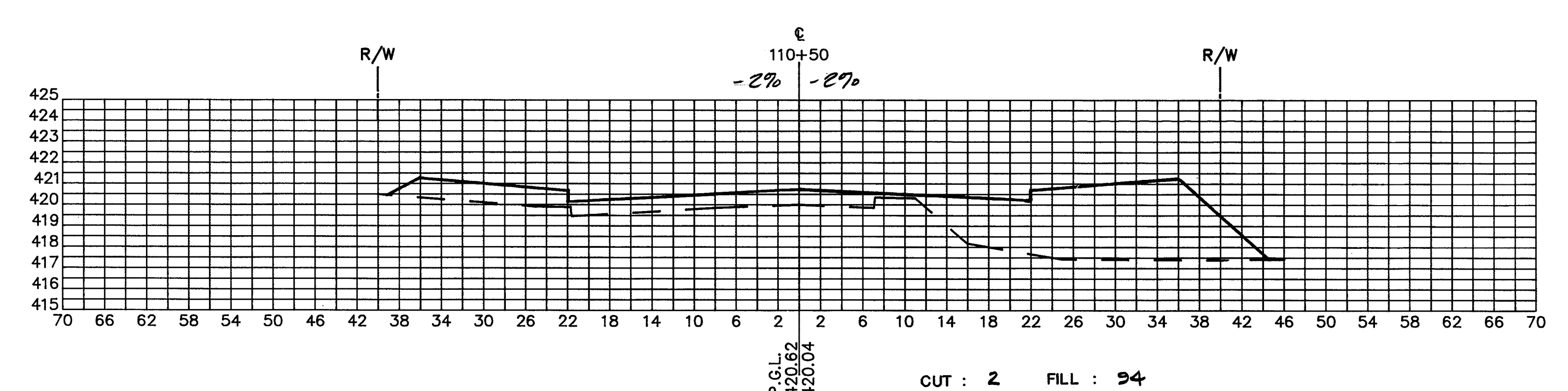
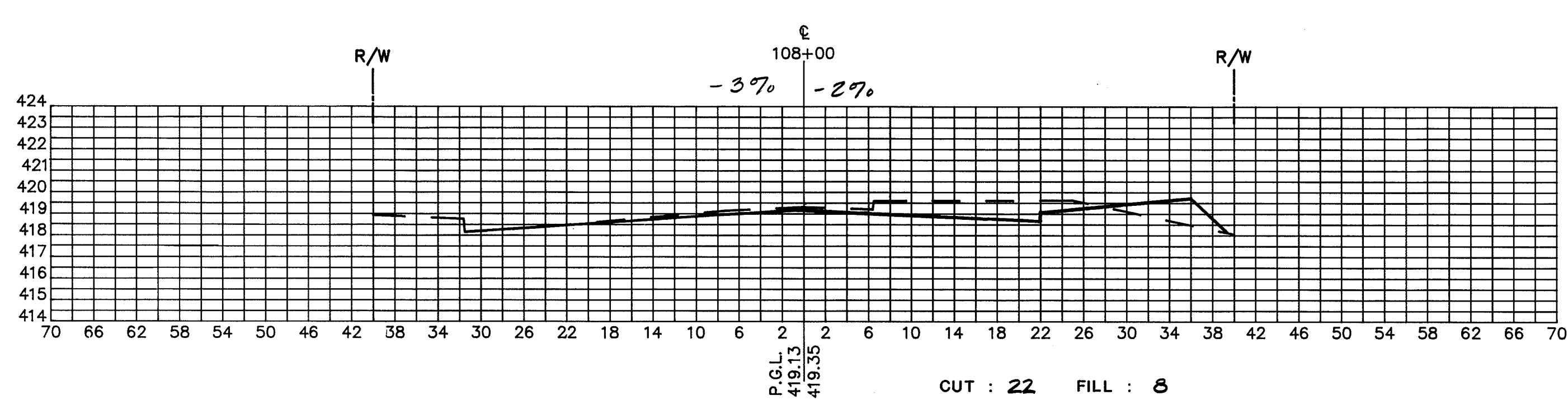
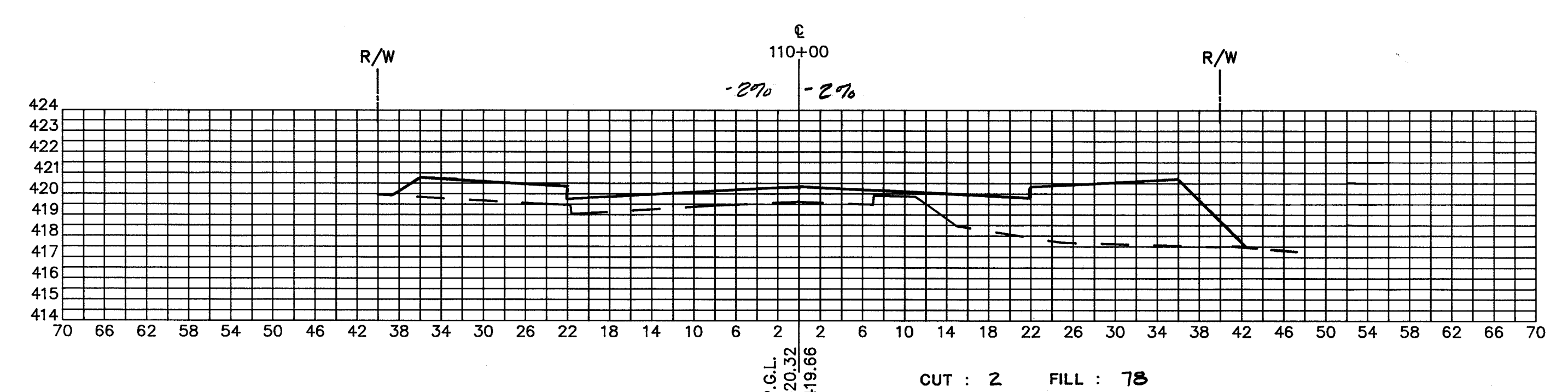
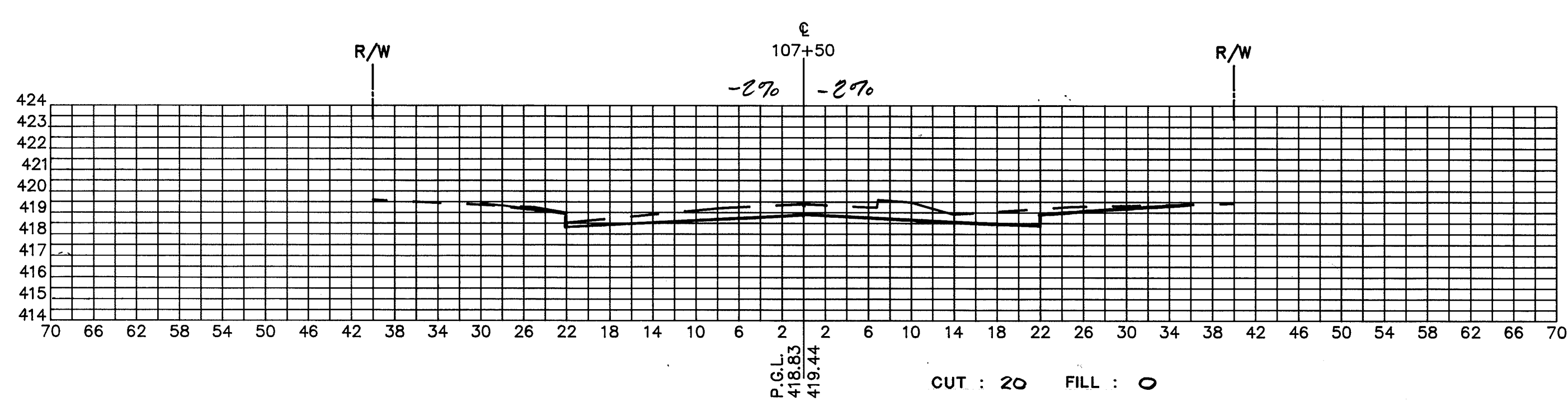
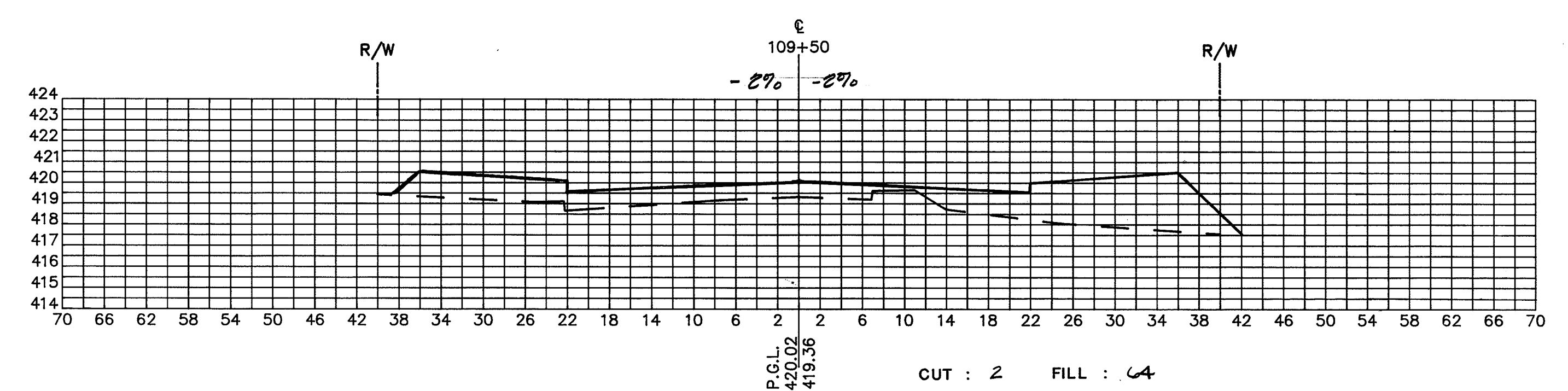
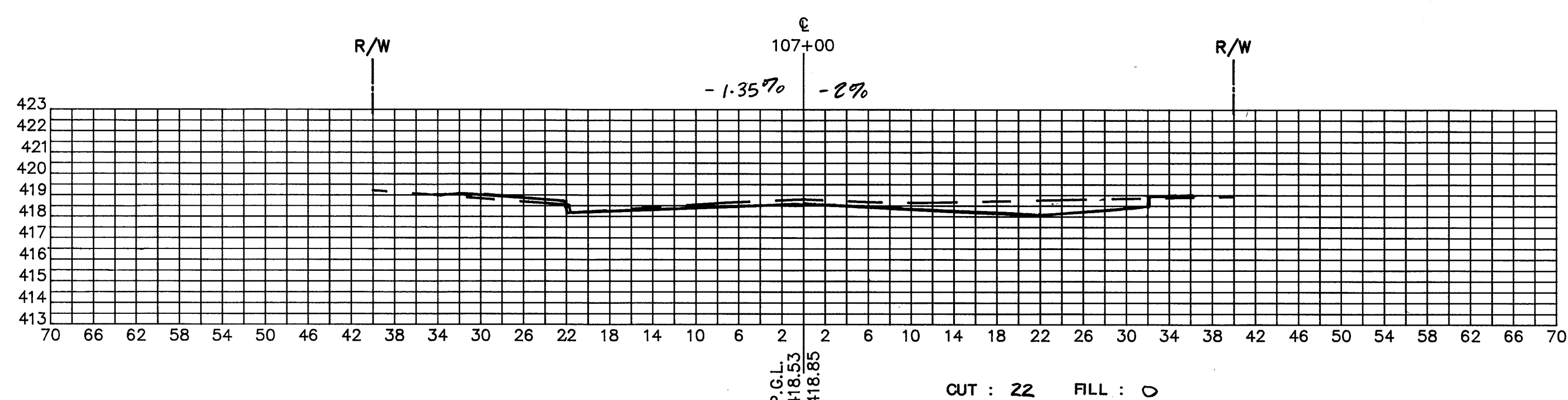
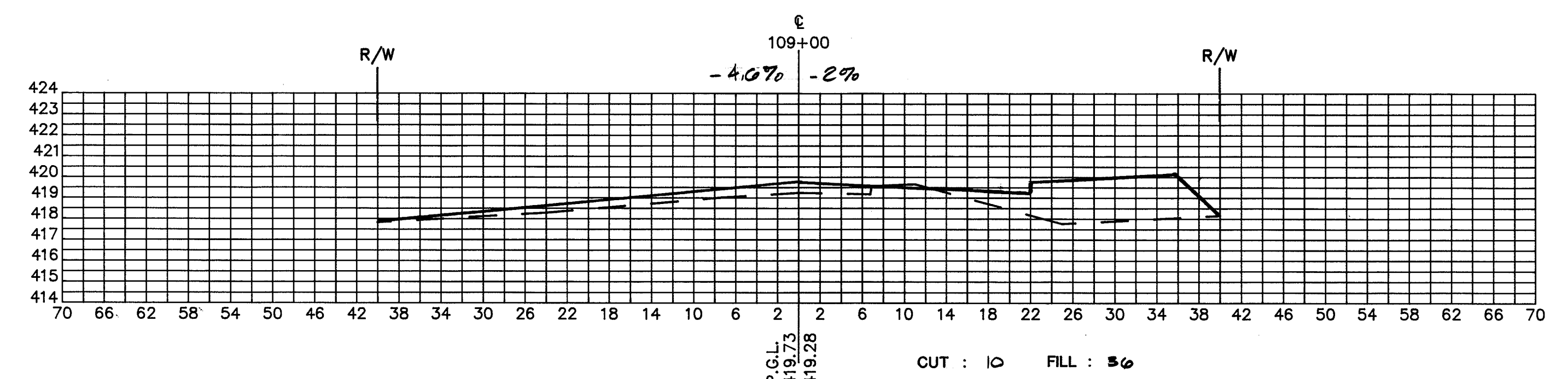
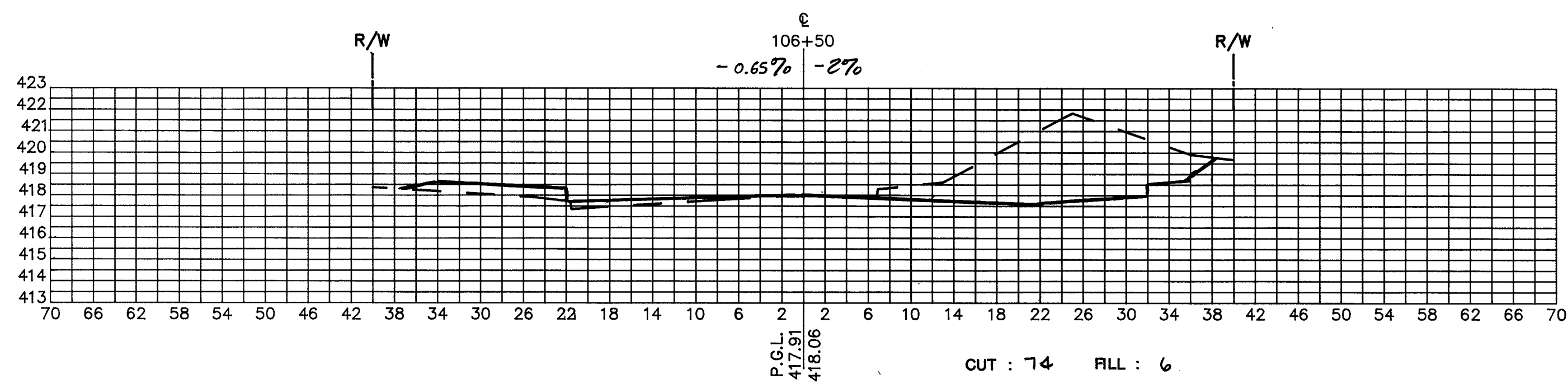
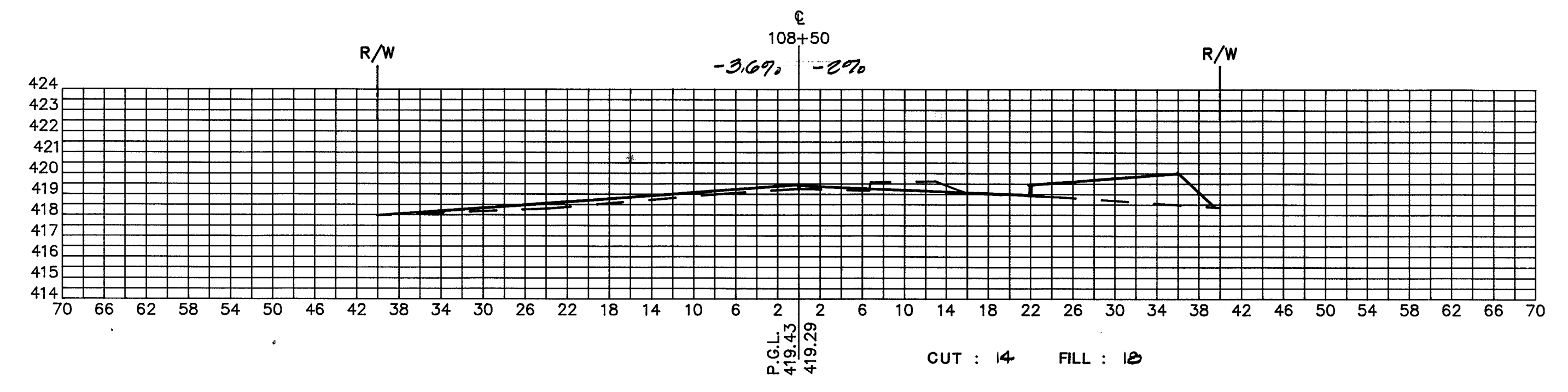
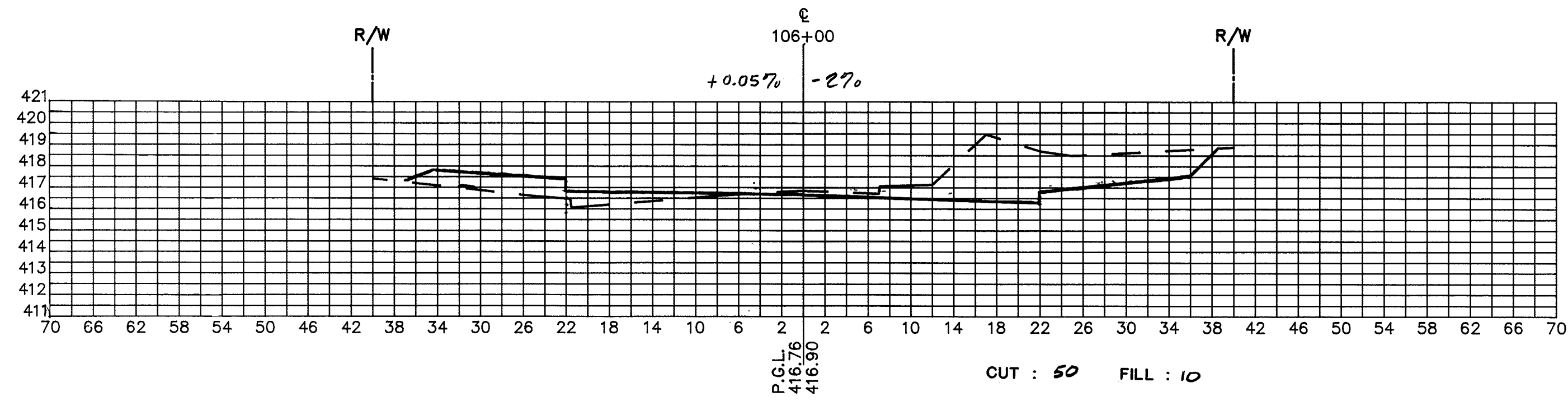
SCALE: HORIZ. 1"=10'
VERT. 1"=5'

CAPITAL PROJECT NO. J-4095

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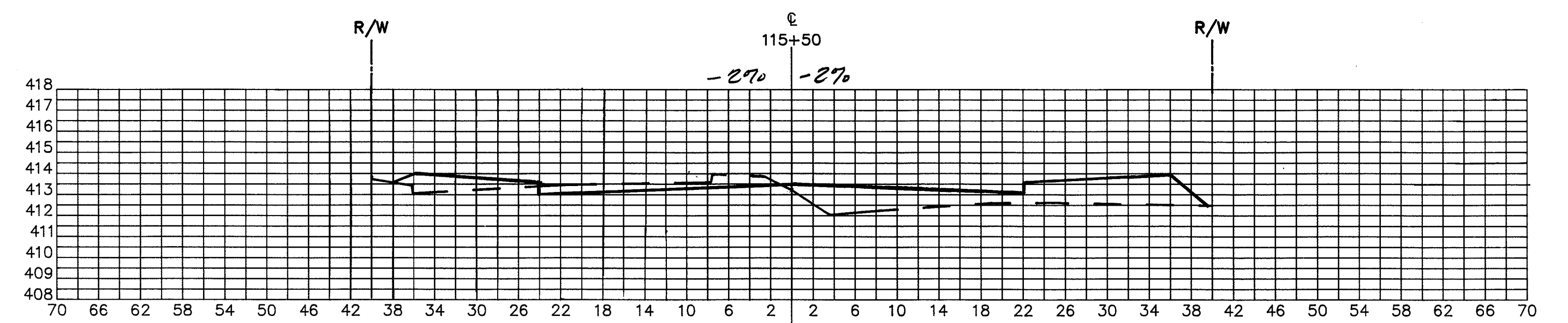
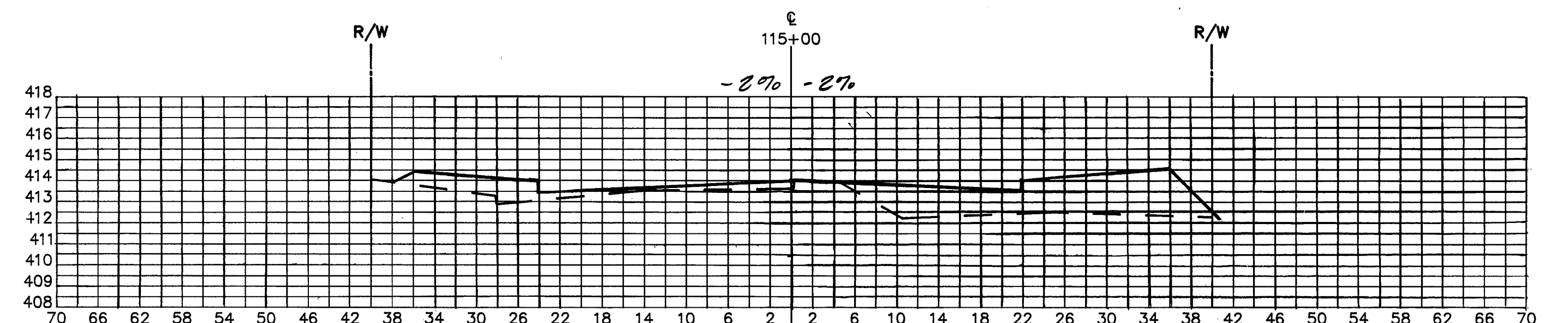
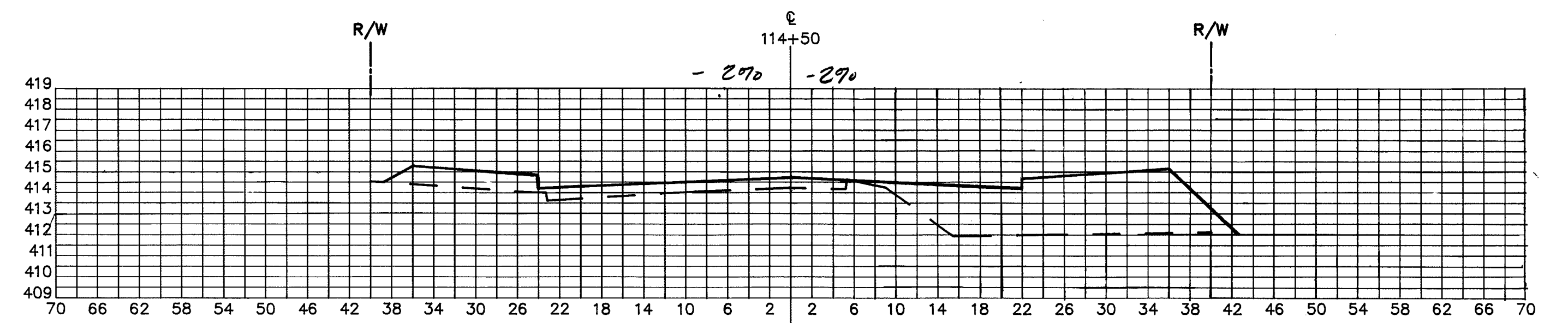
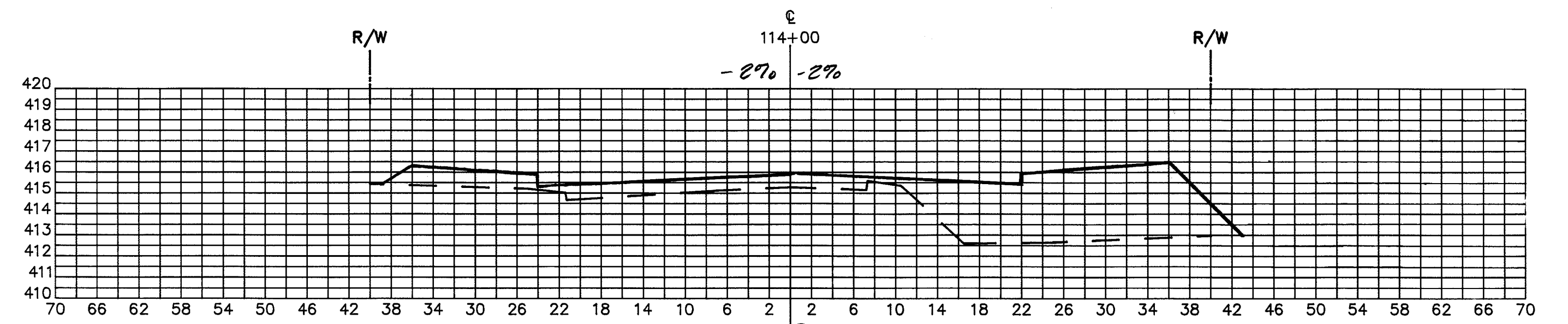
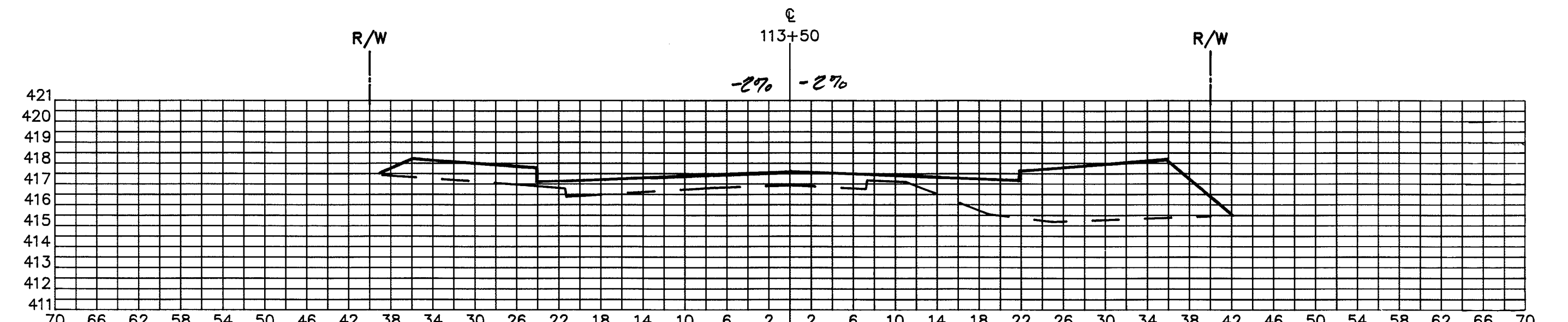
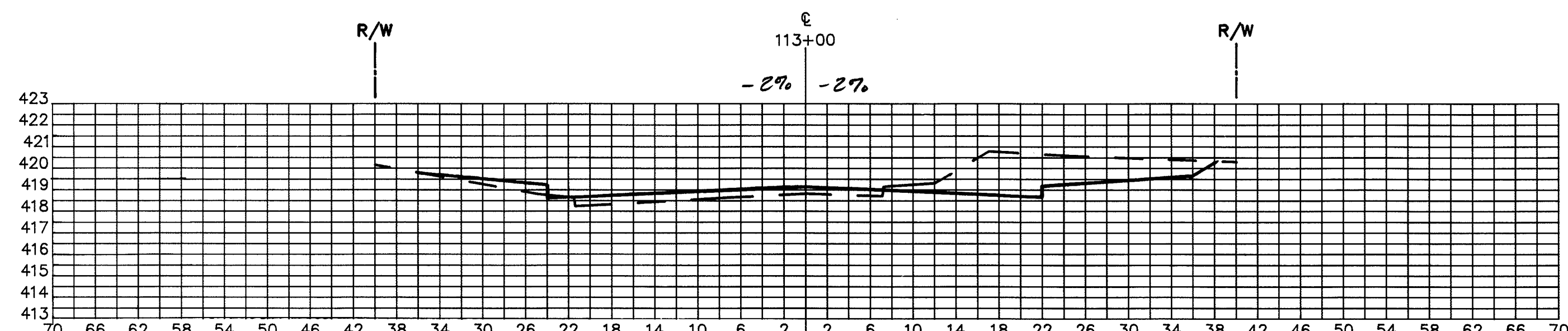
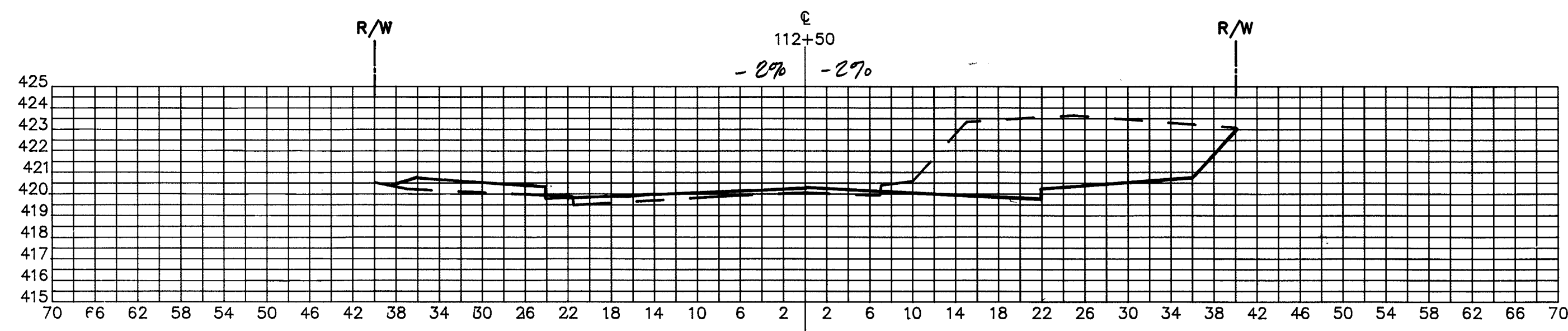
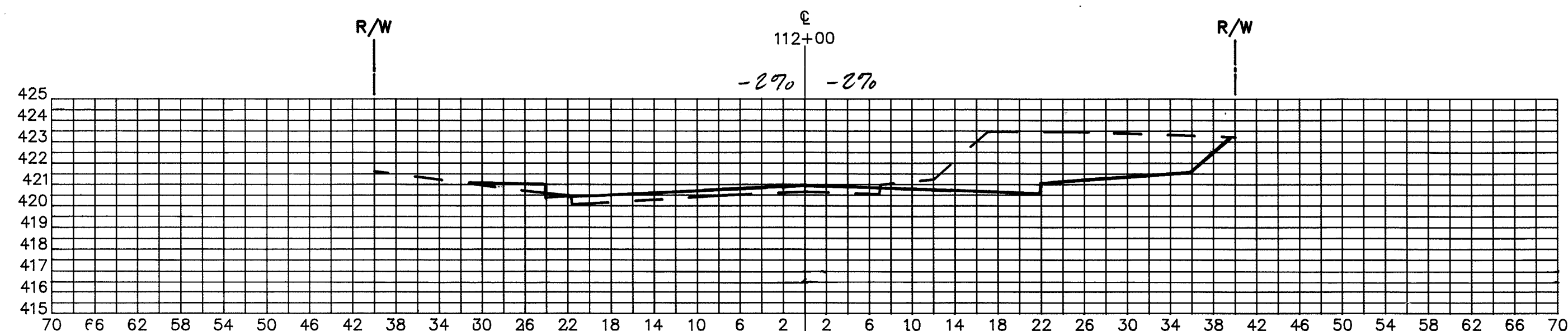
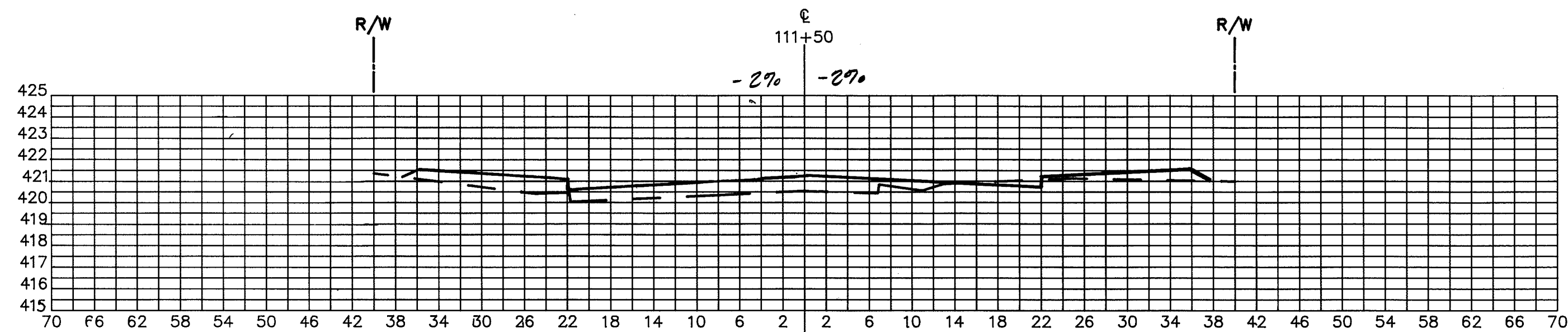
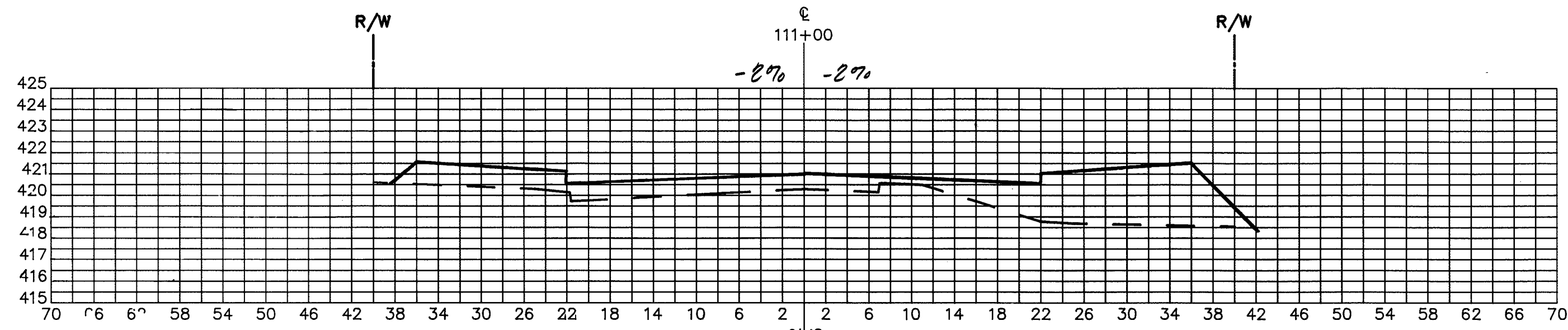


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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 106+00 TO 110+50
 HOWARD COUNTY, MARYLAND



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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.

ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
 ELLICOTT CITY, MARYLAND 21043
 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS

CROSS SECTIONS - STATION 111+00 TO 115+50
 HOWARD COUNTY, MARYLAND

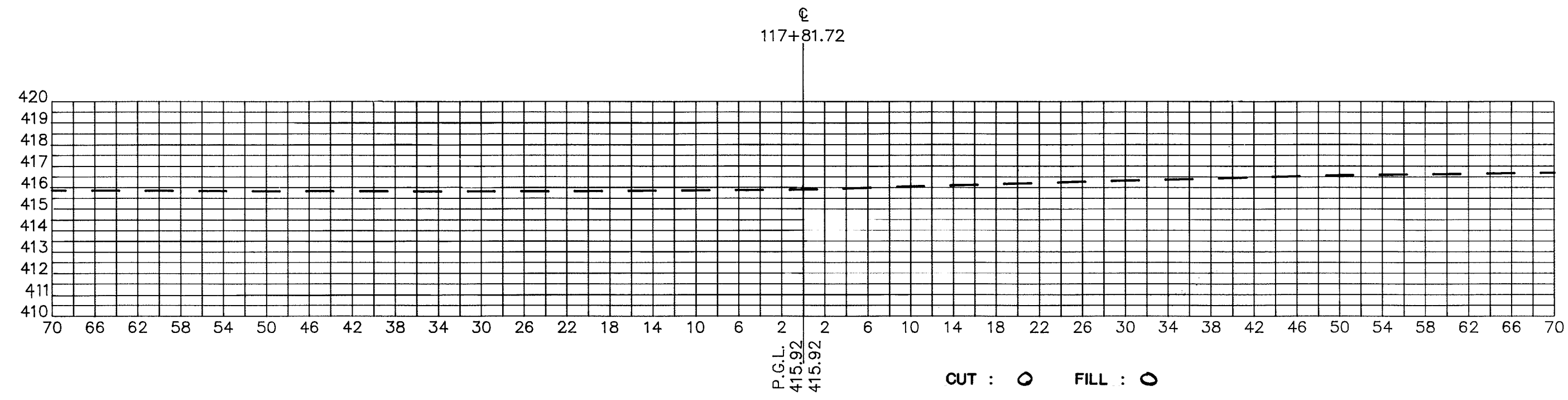
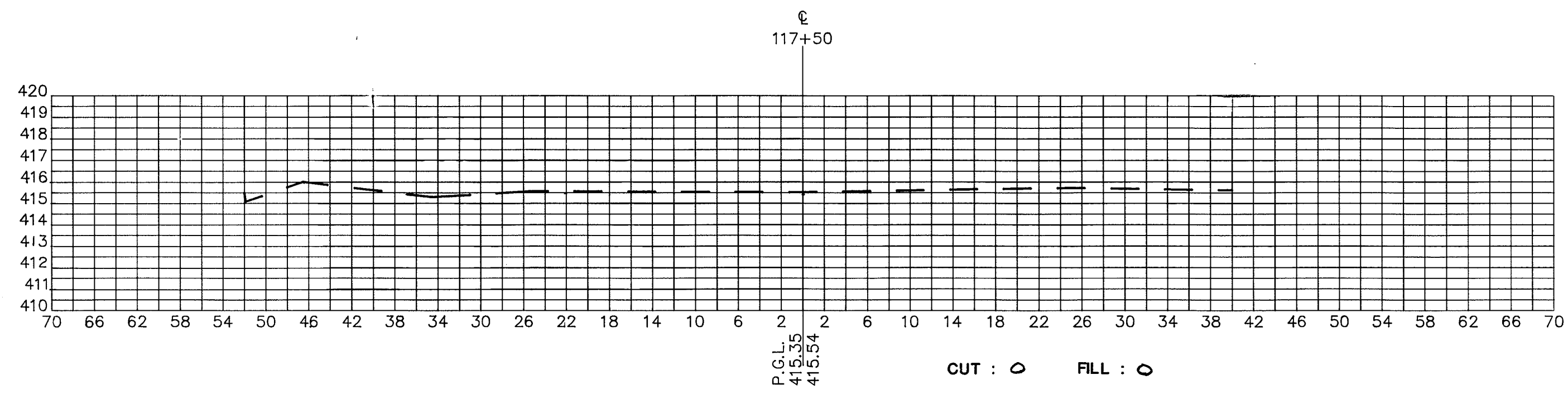
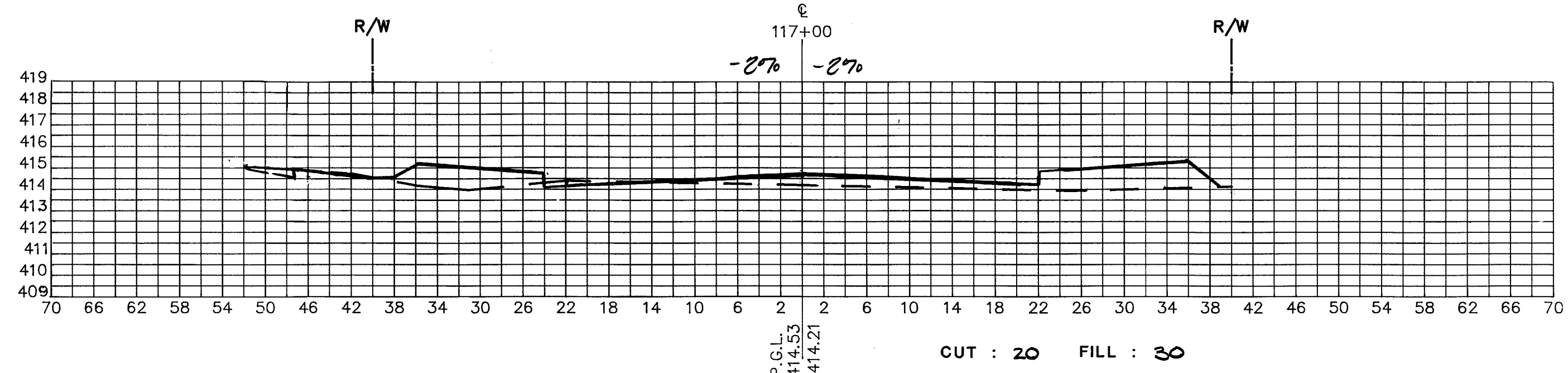
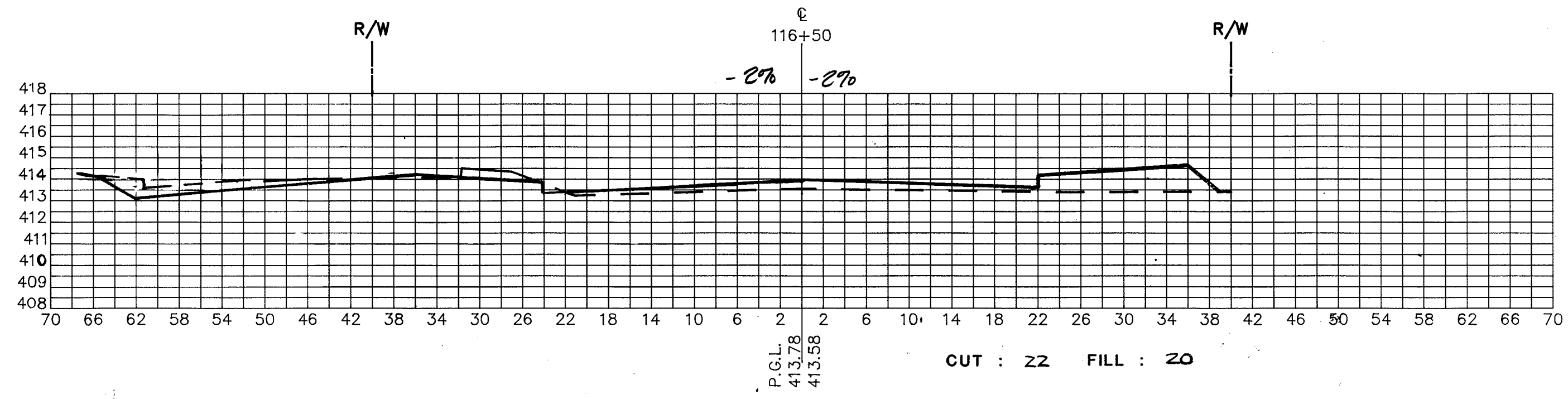
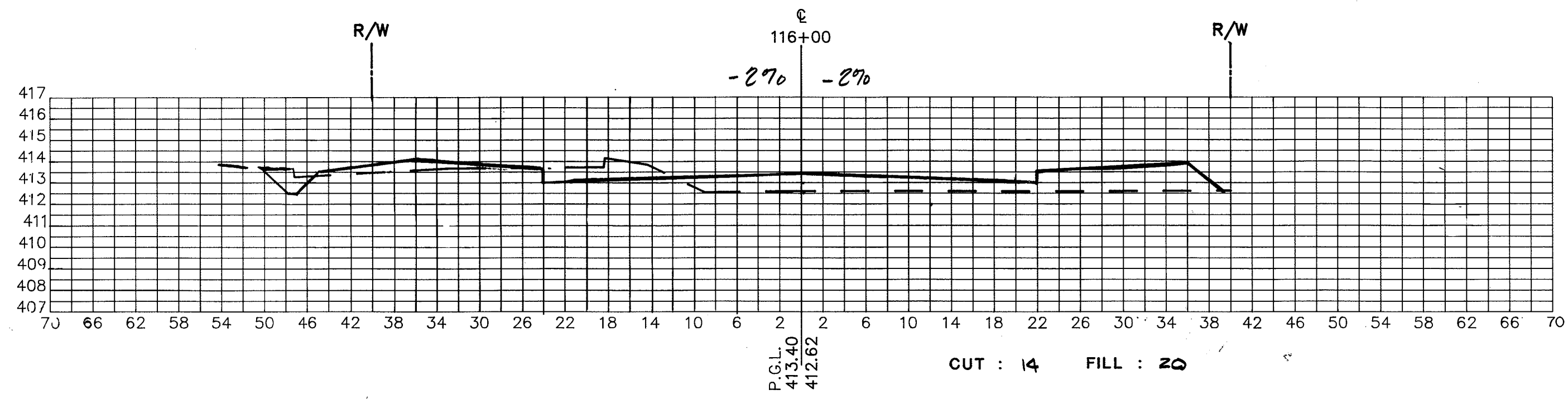
SCALE: HORIZ. 1"=10'
 VERT. 1"=5'

CAPITAL PROJECT NO. J-4095

DATE: 12-80

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ENGINEERING TECHNOLOGIES ASSOCIATES, INC.
 ENGINEERS * PLANNERS * SURVEYORS
 3458 ELLICOTT CENTER DRIVE SUITE 101
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 BALTO. 461-9920 WASH. 621-4690

OAKLAND MILLS ROAD IMPROVEMENTS CROSS SECTIONS
 CROSS SECTIONS - STATION 116+00 TO 117+81.72
 HOWARD COUNTY, MARYLAND