

P.I. = 47+15
 $\Delta = 17^{\circ}00'R$
 $D = 8^{\circ}33'47''$
 $R = 669.71'$
 $T = 100.00'$
 $L = 198.53'$
 $E = 7.4'$

STA. 50+00

NORTH BRANCH SHAMOKIN CREEK
 P.T. 48+15
 P.C. 23+46+07
 $\Delta = 17^{\circ}19'R$
 $P.I. = 46+34.84$

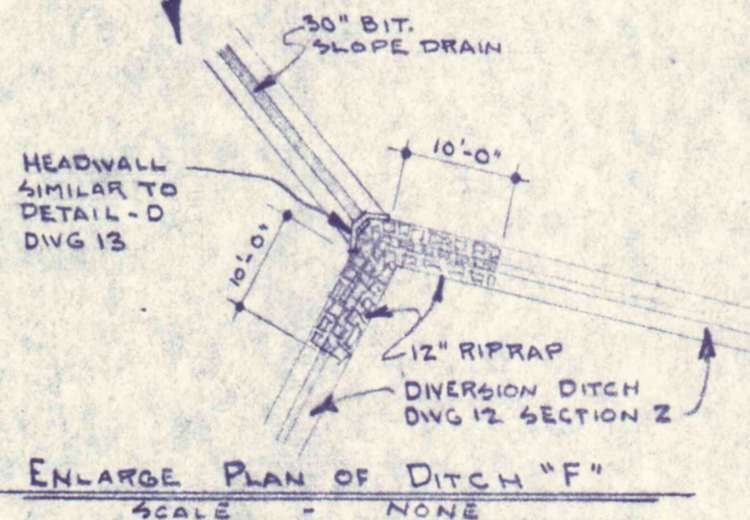
$44+77.78''A$
 $0+00''I$

P.I. = 1+20.56

$42+42.40''A$
 $0+00''H$

END OF WORK 1+63.06
 DITCH "E"

END OF WORK 1+48.56
 DITCH "F"



PLANS OF DITCH - A, D, E & F

SCALE - 1" = 50' - 0"

P.I. = 38+13

$\Delta = 10^{\circ}00'R$
 $D = 5^{\circ}00'47''$
 $R = 1142.11'$
 $T = 100.00'$
 $L = 199.60'$
 $E = 4.38'$

STA. 41+00

NORTH BRANCH SHAMOKIN CREEK
 P.C. 37+13
 P.T. 39+13

RIPRAP FROM P.C. 21+21.47
 TO P.T. 21+88.87 SEE
 SECTION 9, DWG. 15

P.I. = 27+60.64
 $\Delta = 54^{\circ}$
 $D = 88^{\circ}$
 $R = 65.11'$
 $T = 33.17'$
 $L = 61.36'$
 $E = 7.96'$

P.I. = 30+35.61
 $\Delta = 44^{\circ}16'$
 $D = 61^{\circ}30'$
 $R = 286.48'$
 $T = 116.52'$
 $L = 221.30'$
 $E = 22.79'$

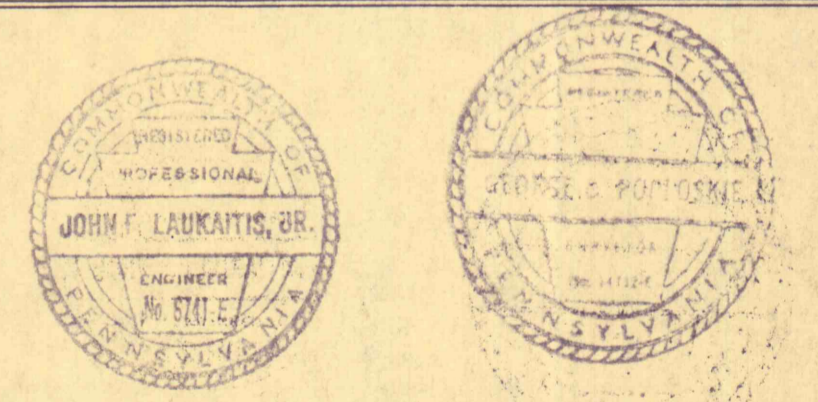
P.I. = 33+24.79
 $\Delta = 40^{\circ}32'$
 $D = 16^{\circ}35'30''$
 $R = 325.70'$
 $T = 120.26'$
 $L = 244.30'$
 $E = 21.49'$

P.I. = 33+39.92
 $\Delta = 42^{\circ}58'$
 $D = 18^{\circ}45'$
 $R = 305.58'$
 $T = 120.26'$
 $L = 229.17'$
 $E = 22.83'$

STATION	DRAWING
25+00''A - 50+00''A	9
32+19.66''D - 34+48.83''D	8
DITCH "E" SEC	10
DITCH "F" SEC	10

NO.	DATE	REVISION	APPR.

SUBMITTED: *[Signature]*
 PROFESSIONAL
 APPROVED: *[Signature]*
 CHIEF - DIVISION OF MINE DRAINAGE REHABILITATION
 APPROVED: *[Signature]*
 DIRECTOR - BUREAU OF CONSULTING SERVICES



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES
 OFFICE OF ENGINEERING AND CONSTRUCTION

PROJECT NO. SL 113-2
 MINE DRAINAGE POLLUTION ABATEMENT
 QUICK STARTS A and B
 SHAMOKIN CREEK WATERSHED

JOHN S. LUCKENS ASSOC.
 P. O. Box 190
 Shamokin, Penna.

PLANS OF DITCH A, D, E & F

DRAWN BY: *[Signature]* DATE: May 7, 1973 DRAWING NO.: 4 of 14
 CHECKED BY: SCALE: 1" = 50'