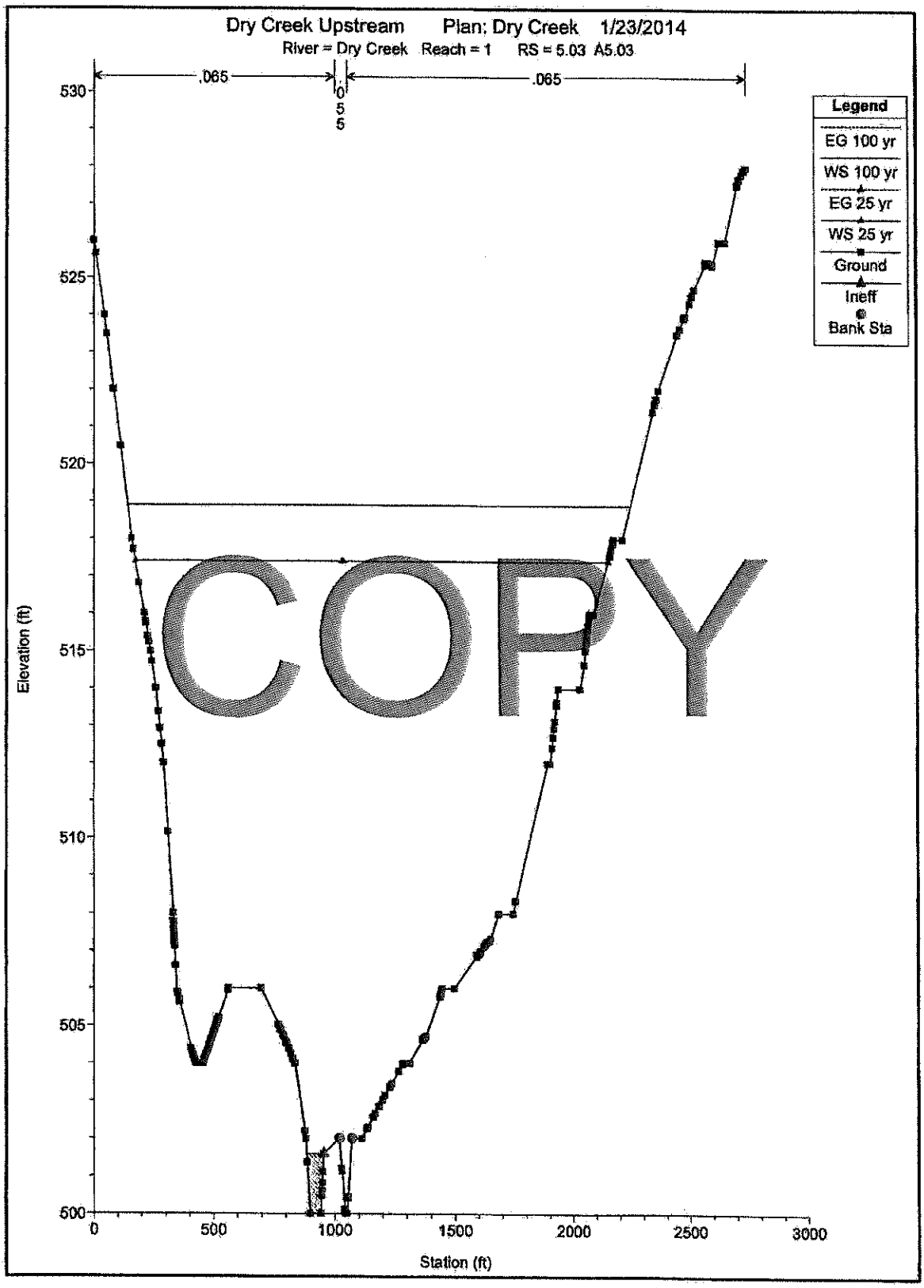
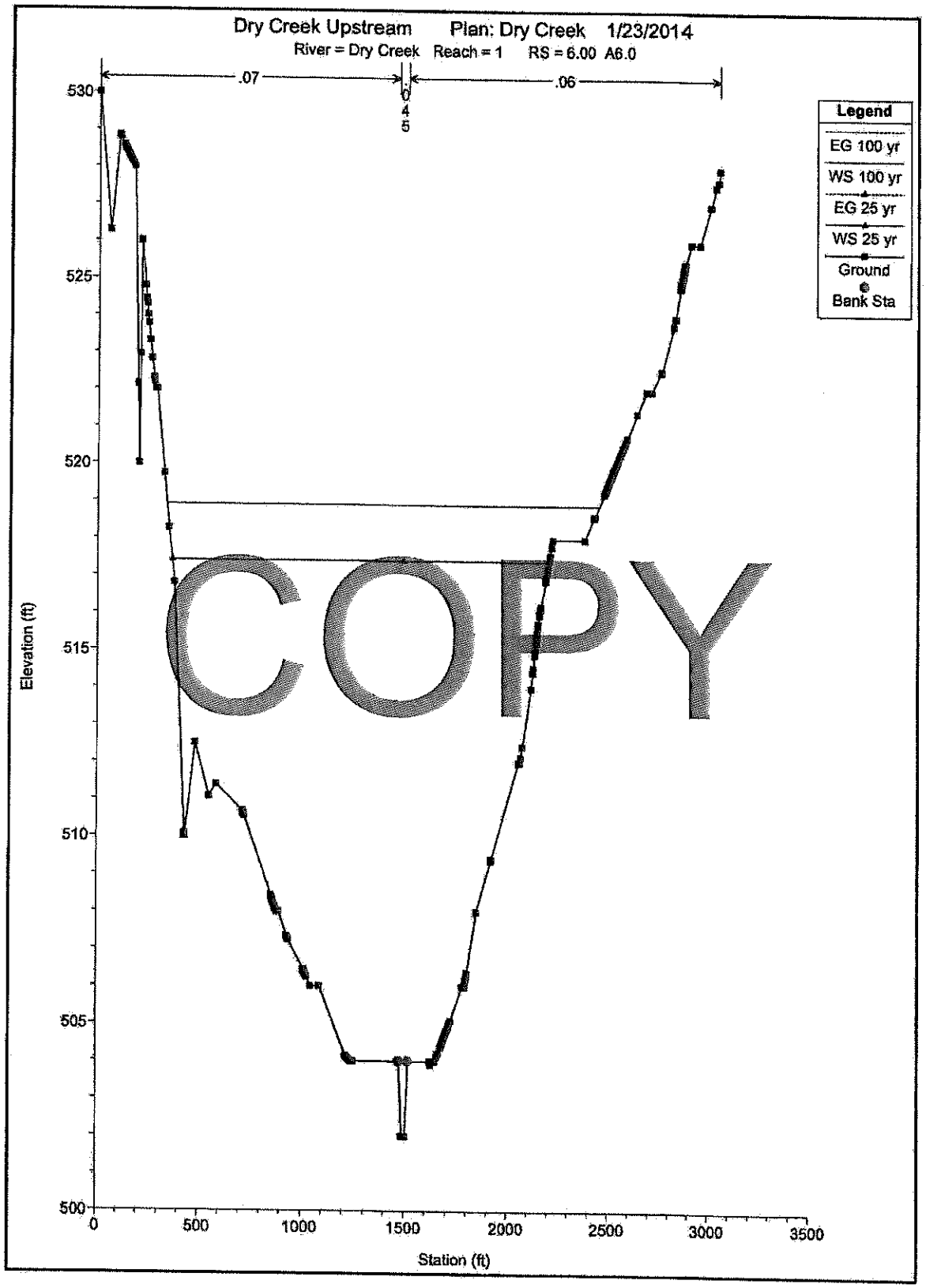
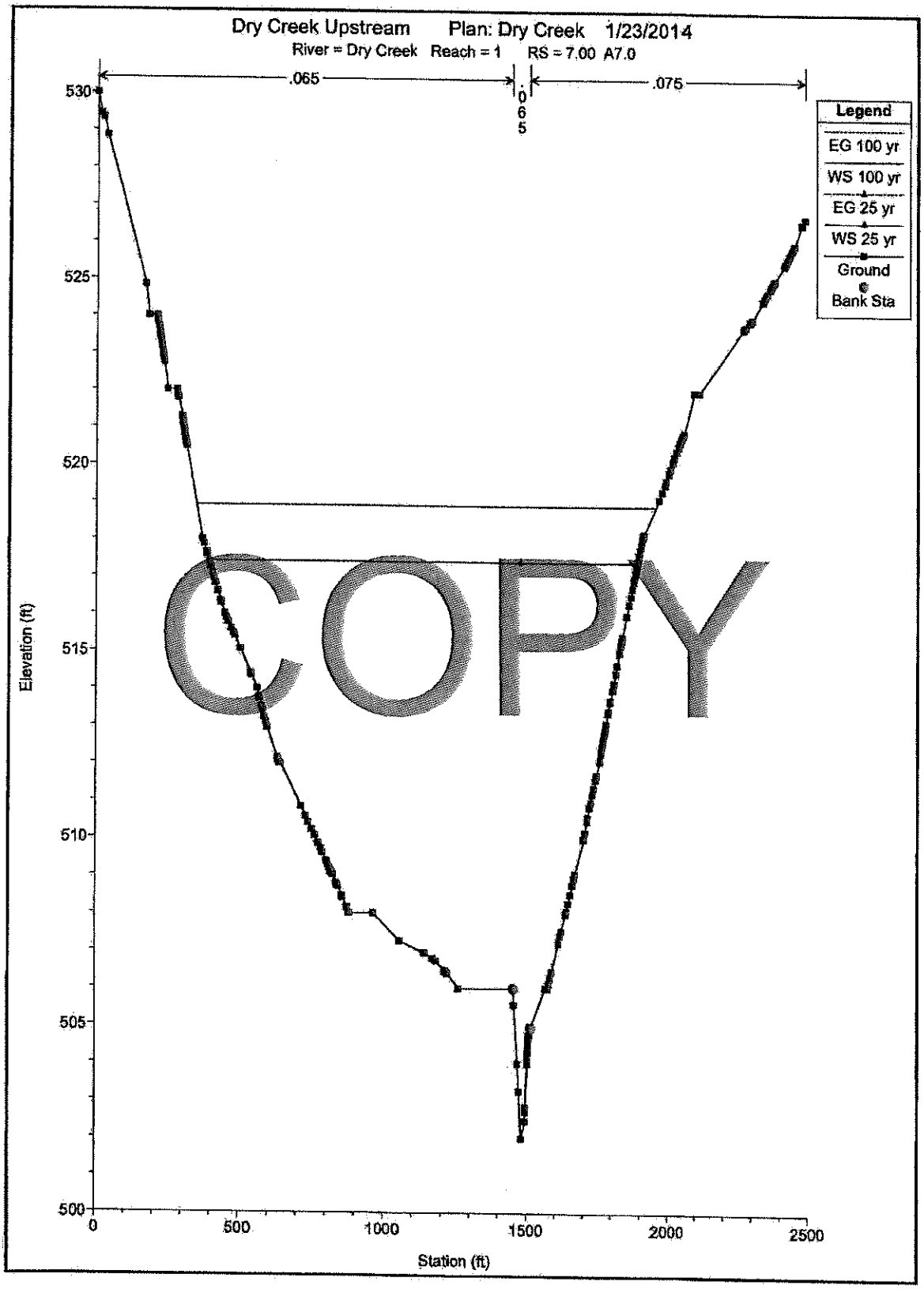
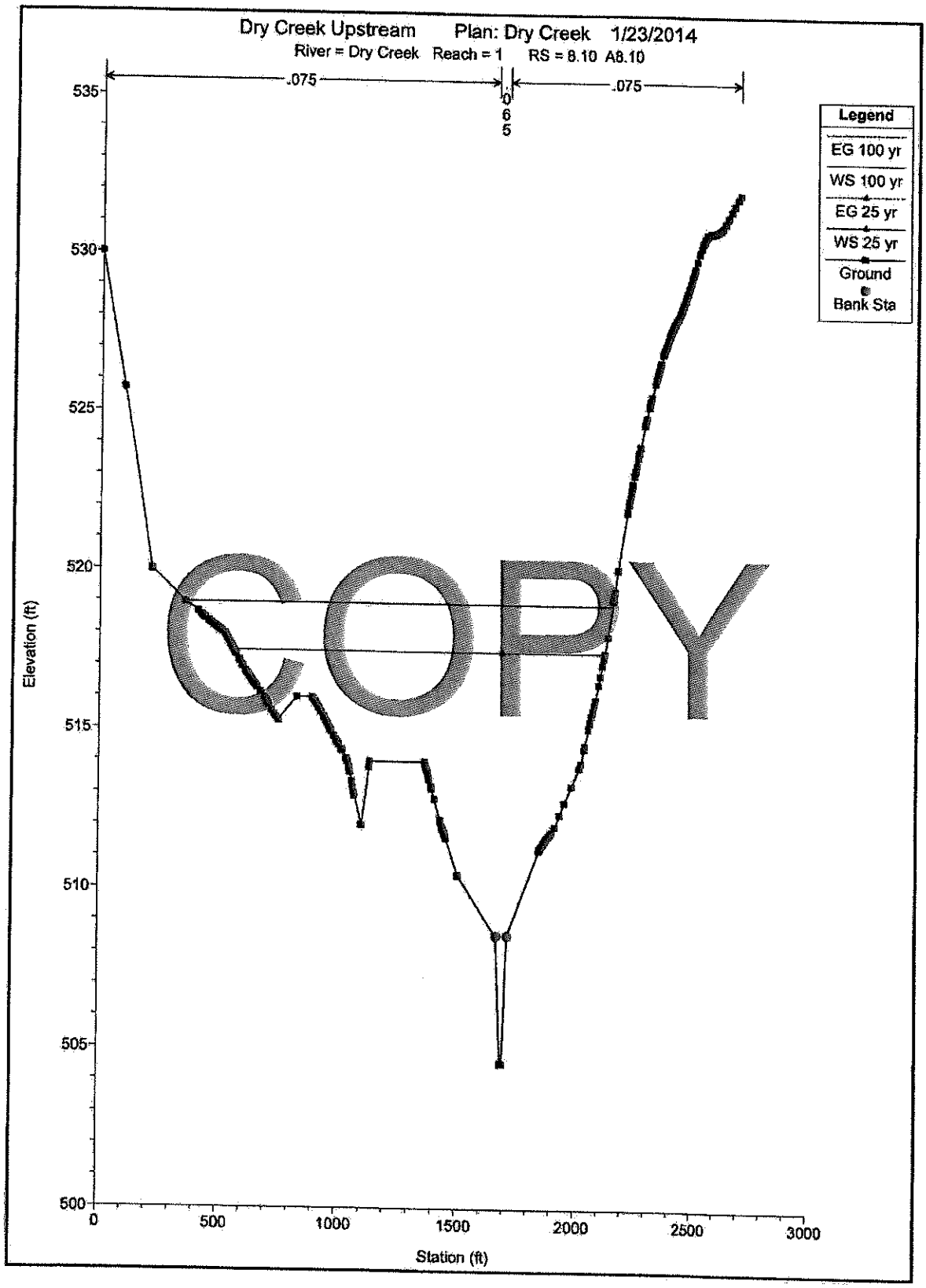
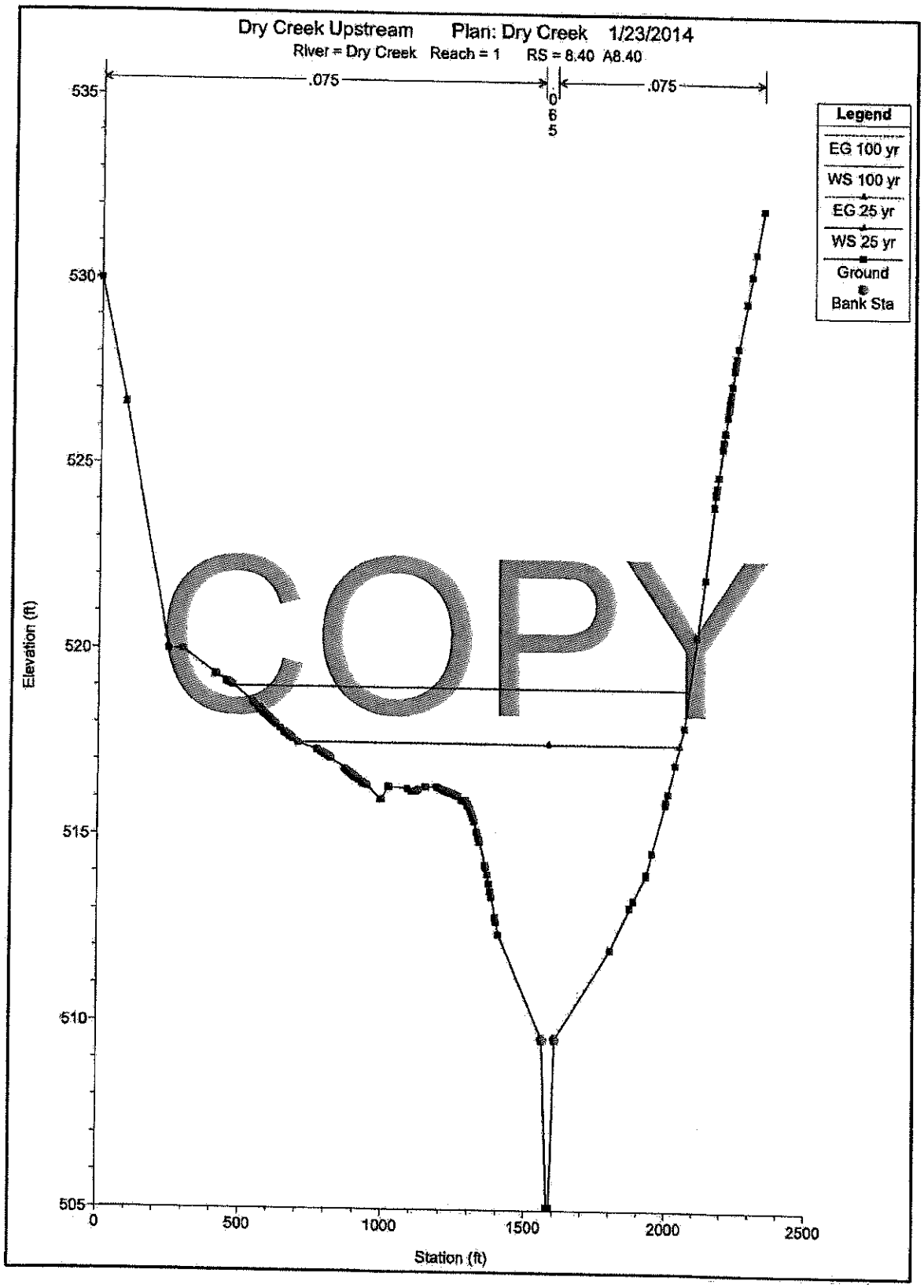
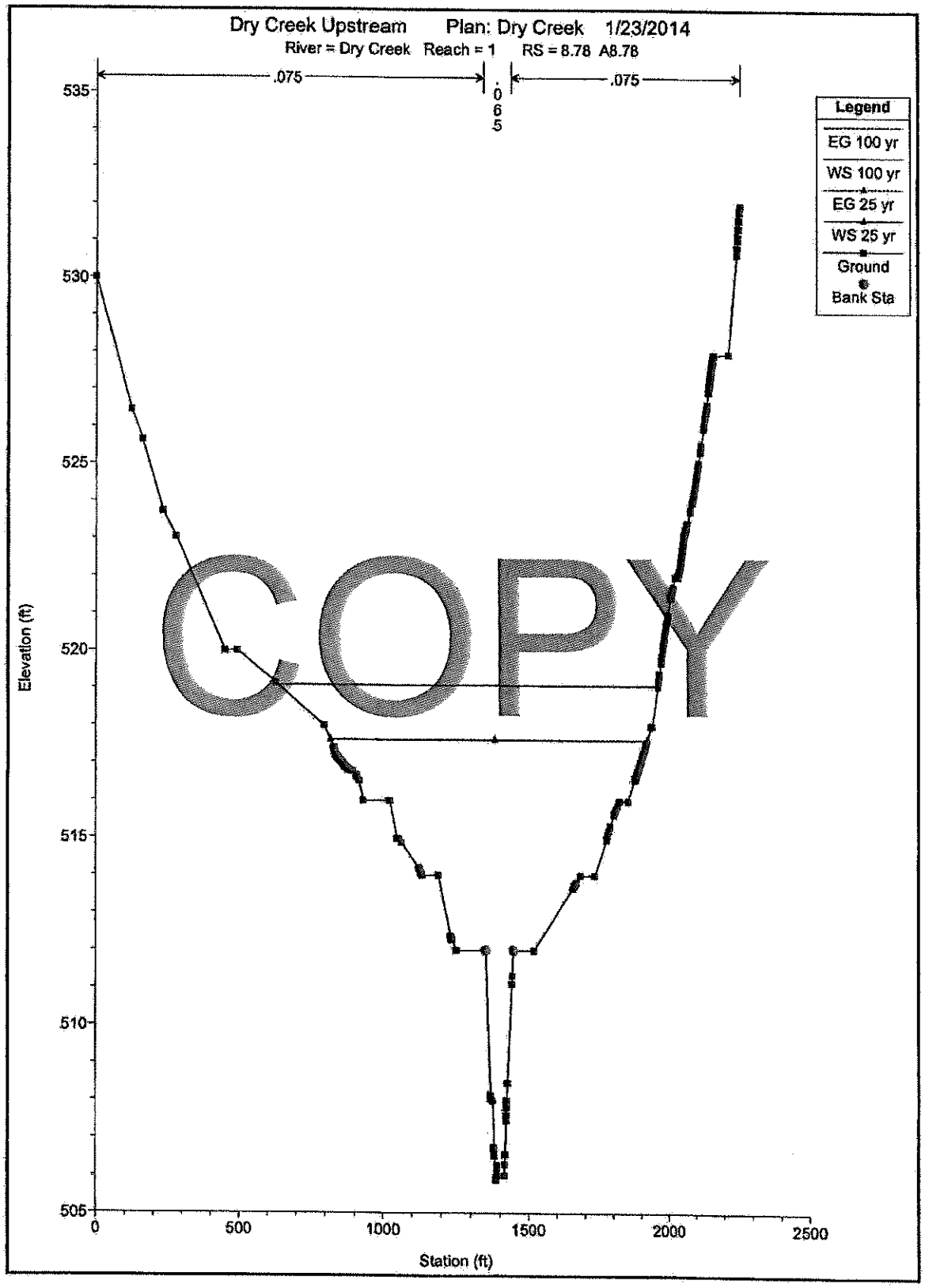

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 5.03 A5.03
.065
.065
0
5
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Ineff
Bank Sta
Elevation (ft)
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500
3000
Station (ft)

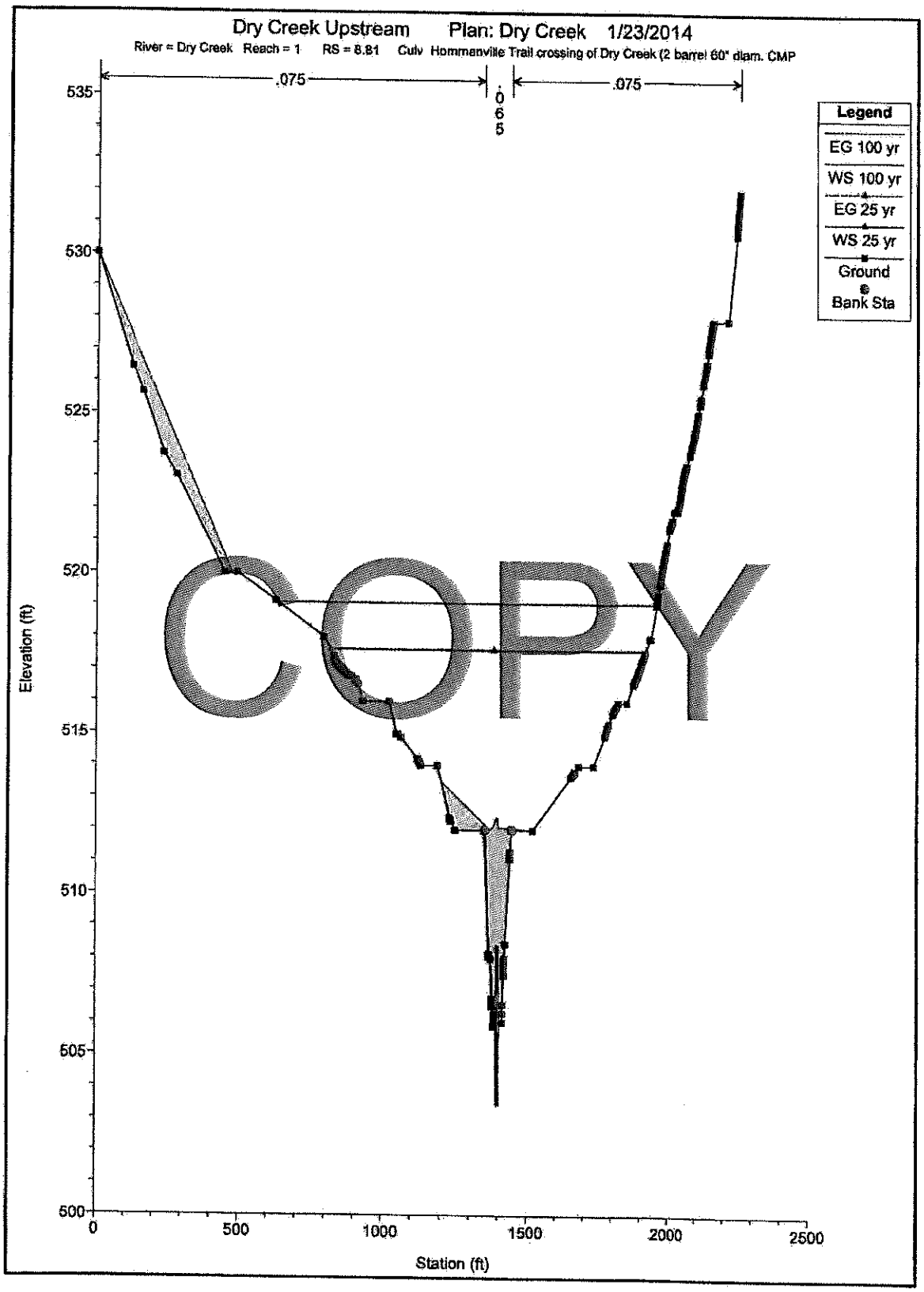

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 6.00 A6.0
.07
.045
.06
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500
3000
3500

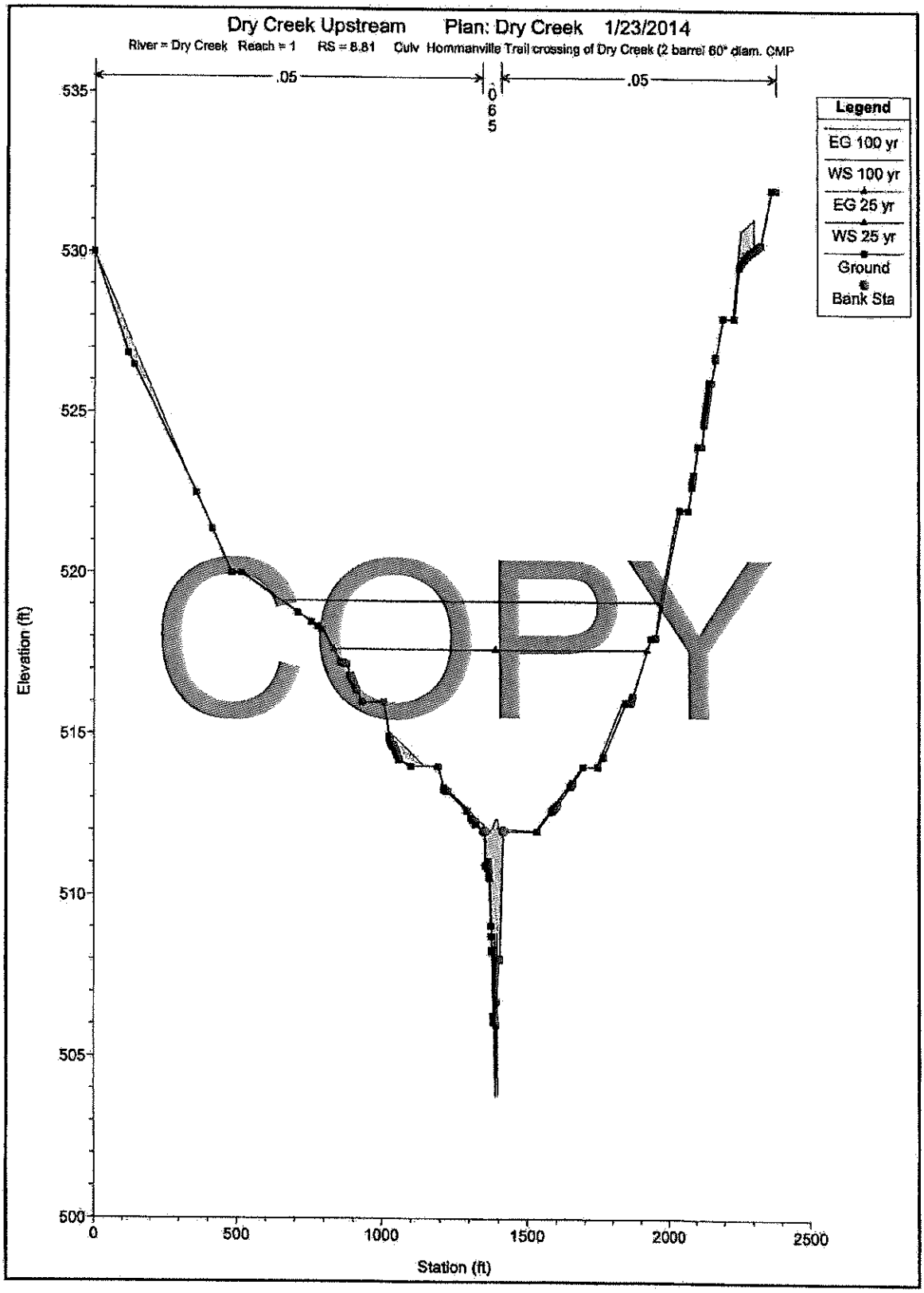

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 7.00 A7.0
.065
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500
COPY

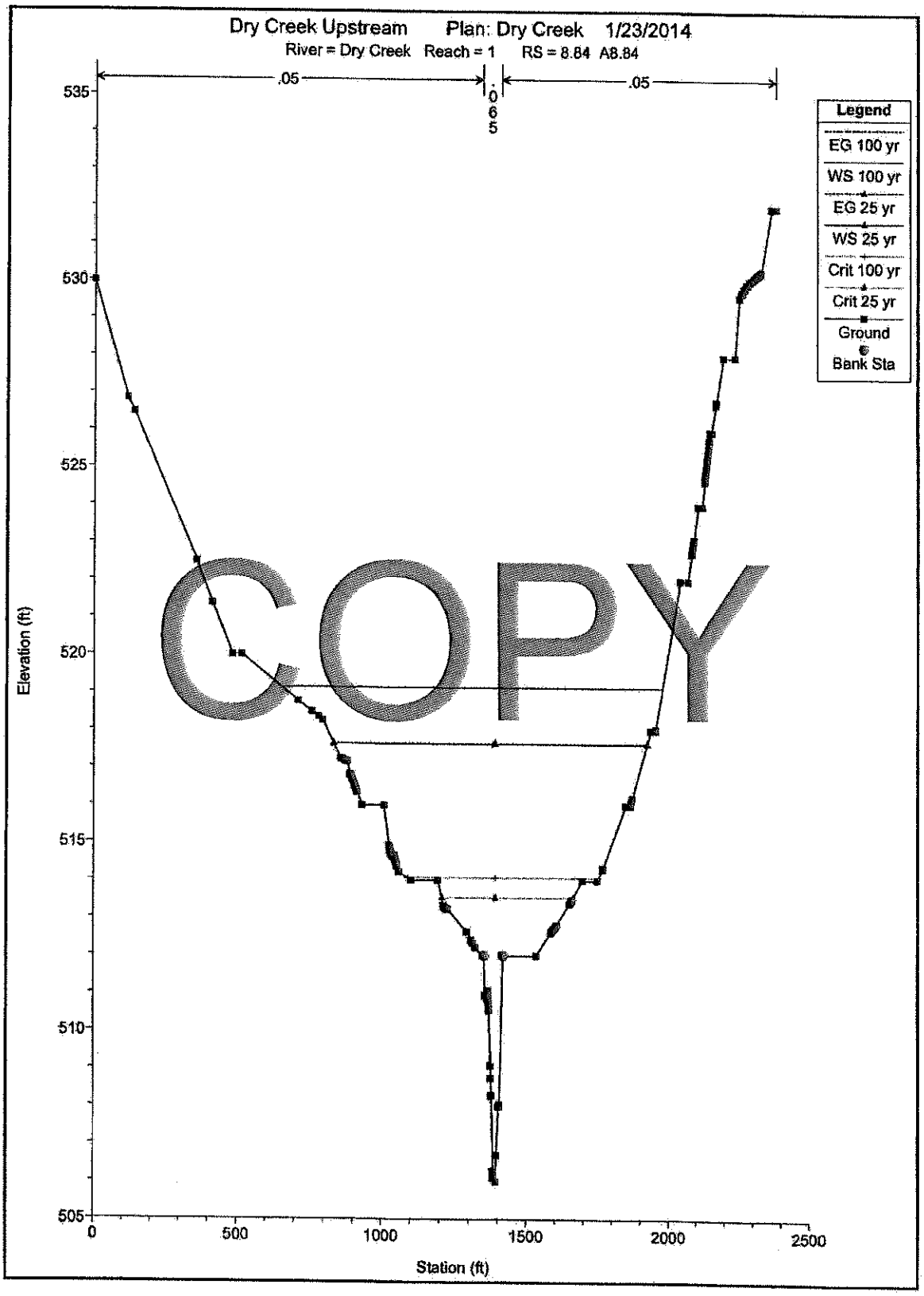

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.10 A8.10
.075
.075
0
6
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
535
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500
3000

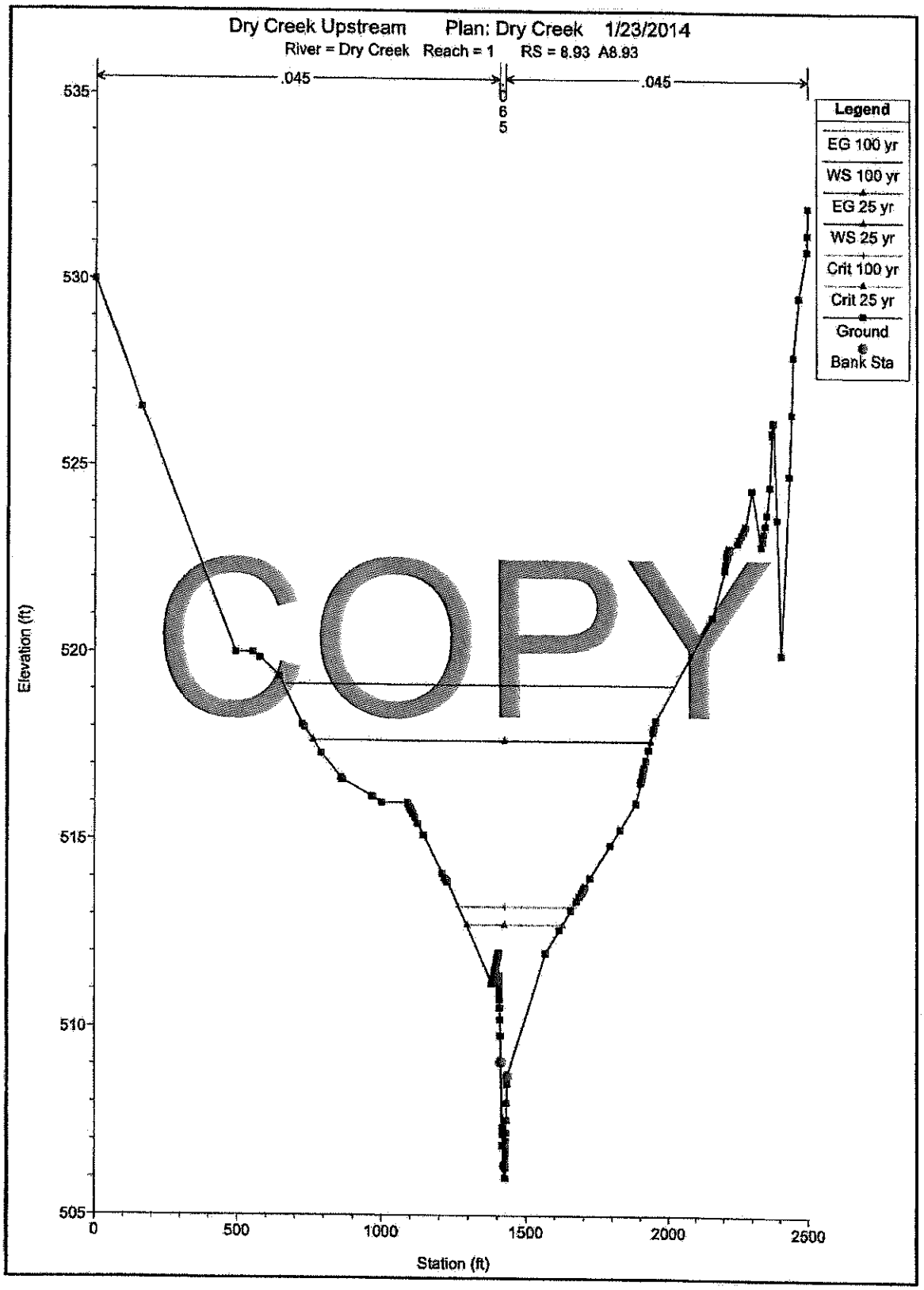

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.40 A8.40
.075
.075
0
6
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
535
530
525
520
515
510
505
Elevation (ft)
0
500
1000
1500
2000
2500
Station (ft)

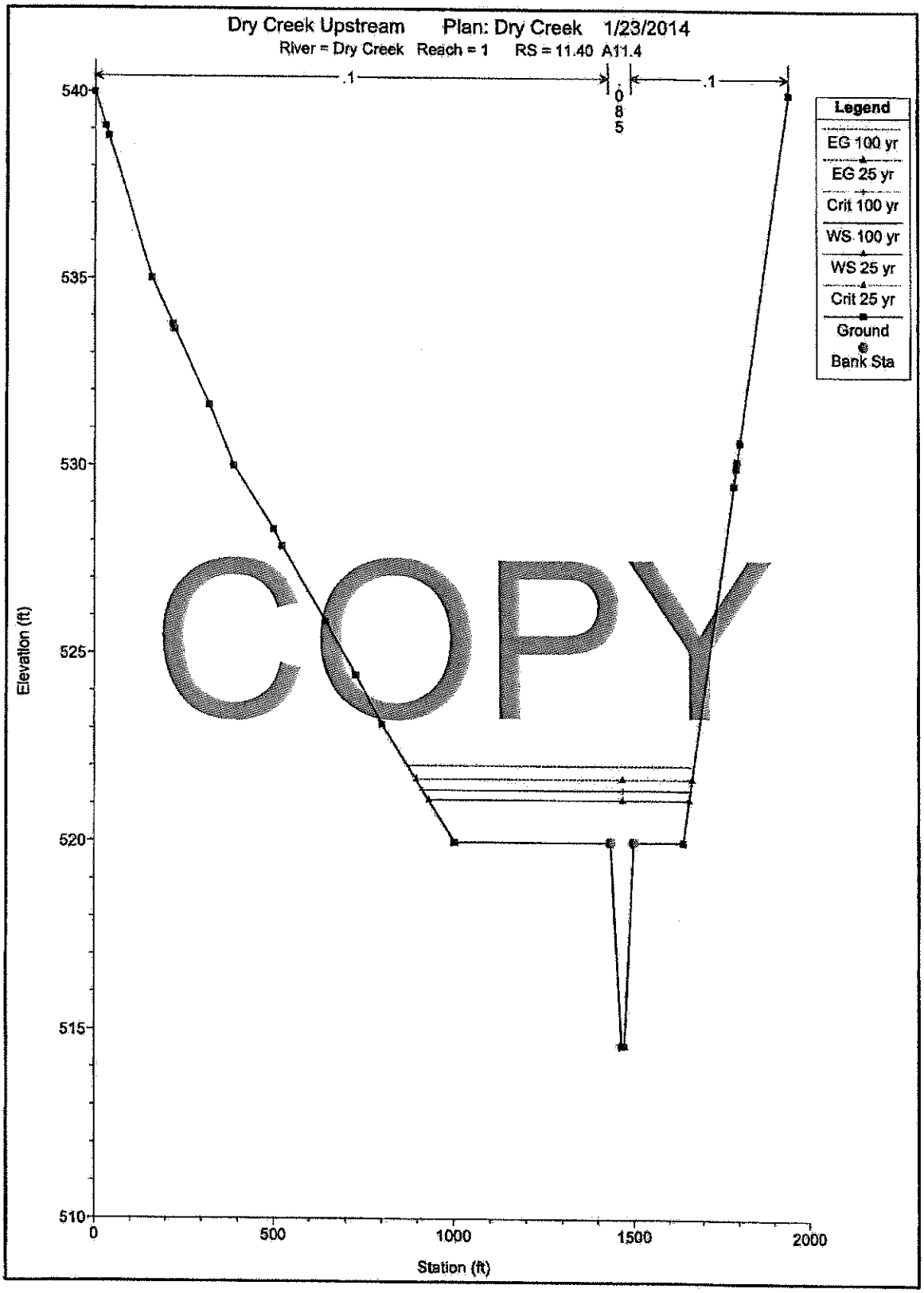

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.78 A8.78
.075
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
535
530
525
520
515
510
505
0
500
1000
1500
2000
2500
Station (ft)

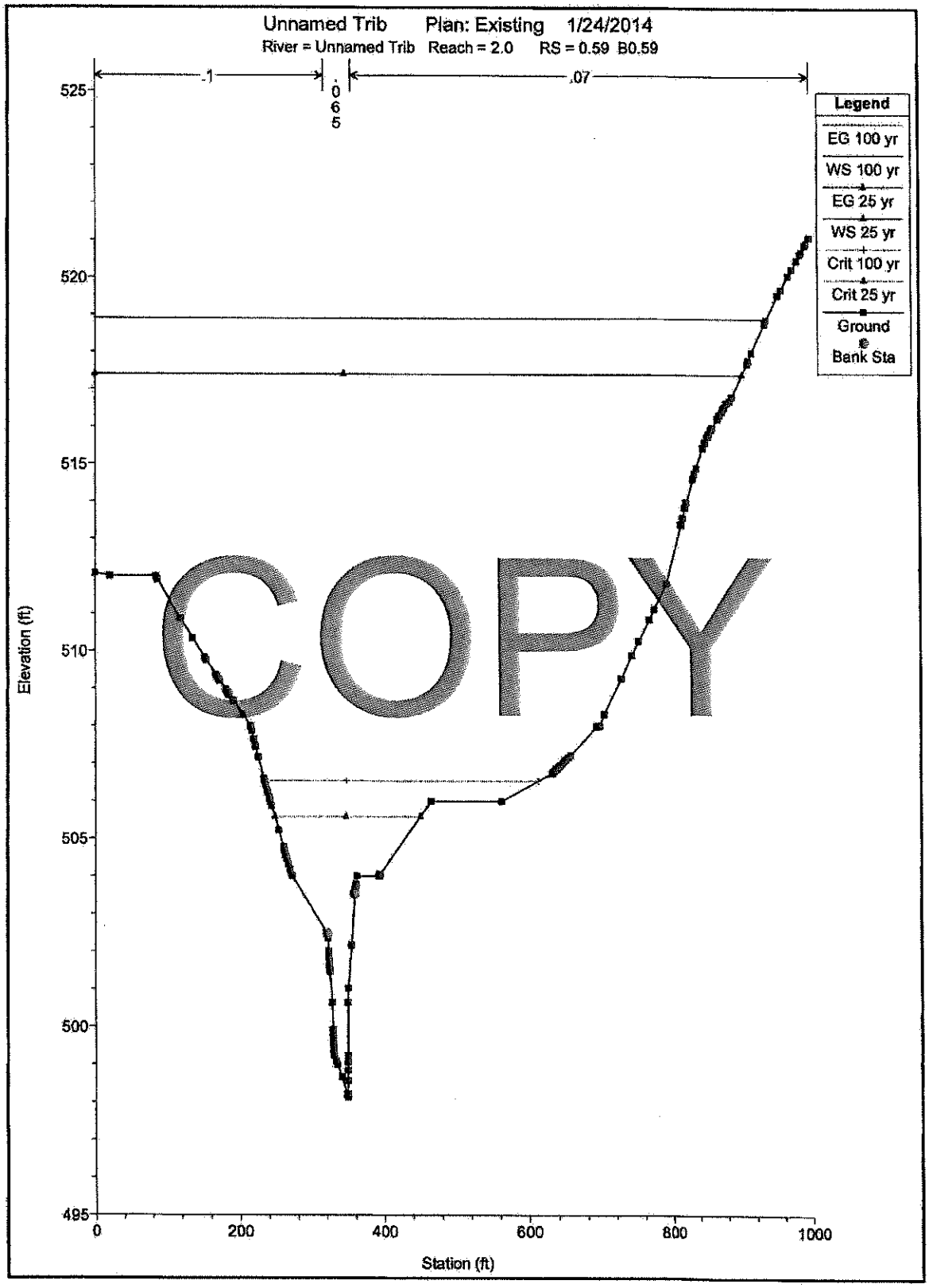

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.81 Culv Hommanville Trail crossing of Dry Creek (2 barrel 60" diam. CMP
.075
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
535
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500
Station (ft)
COPY

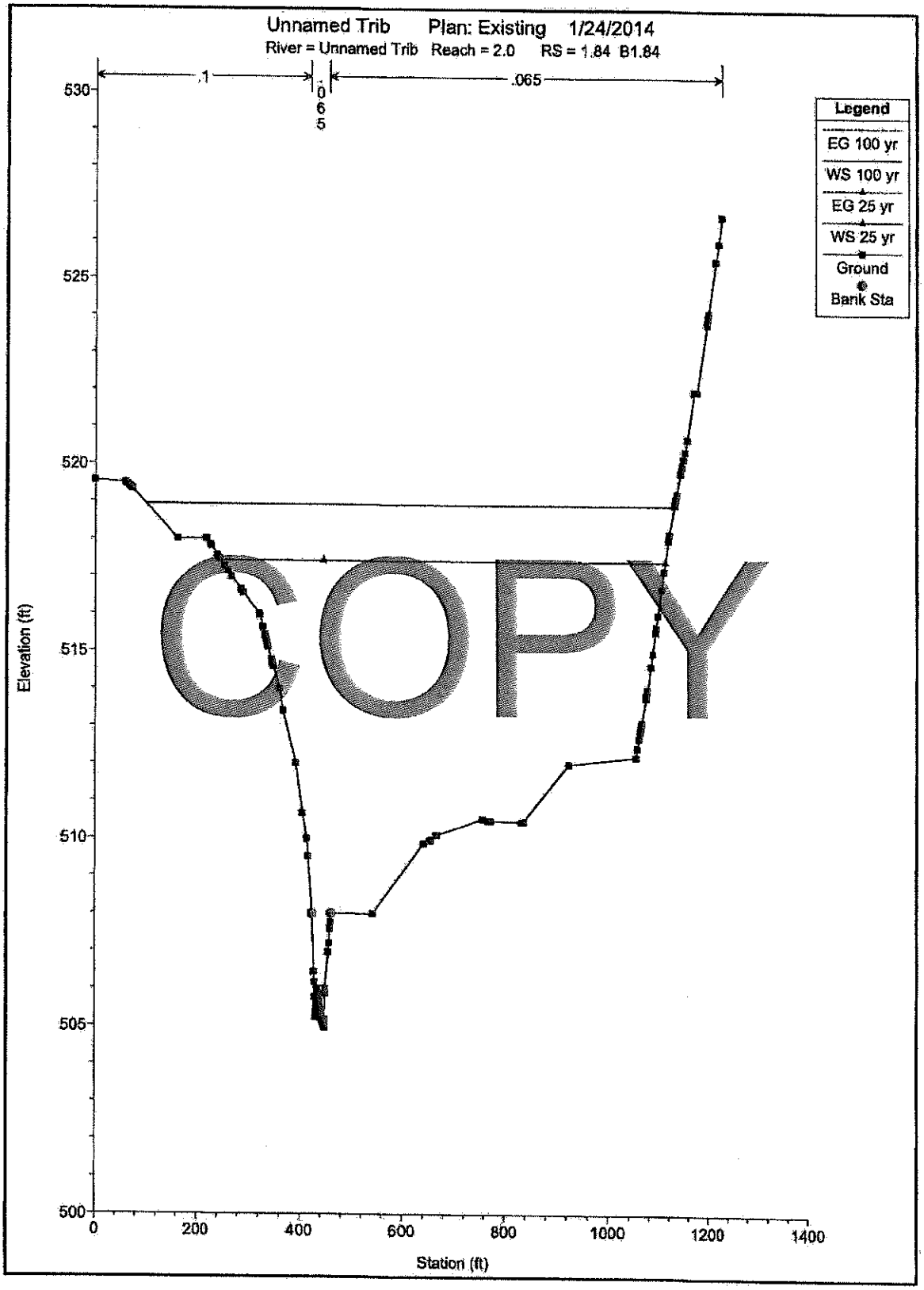

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.81 Culv Hommanville Trail crossing of Dry Creek (2 barrel 60" diam. CMP
.05
.05
0
6
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
535
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500
Station (ft)
COPY

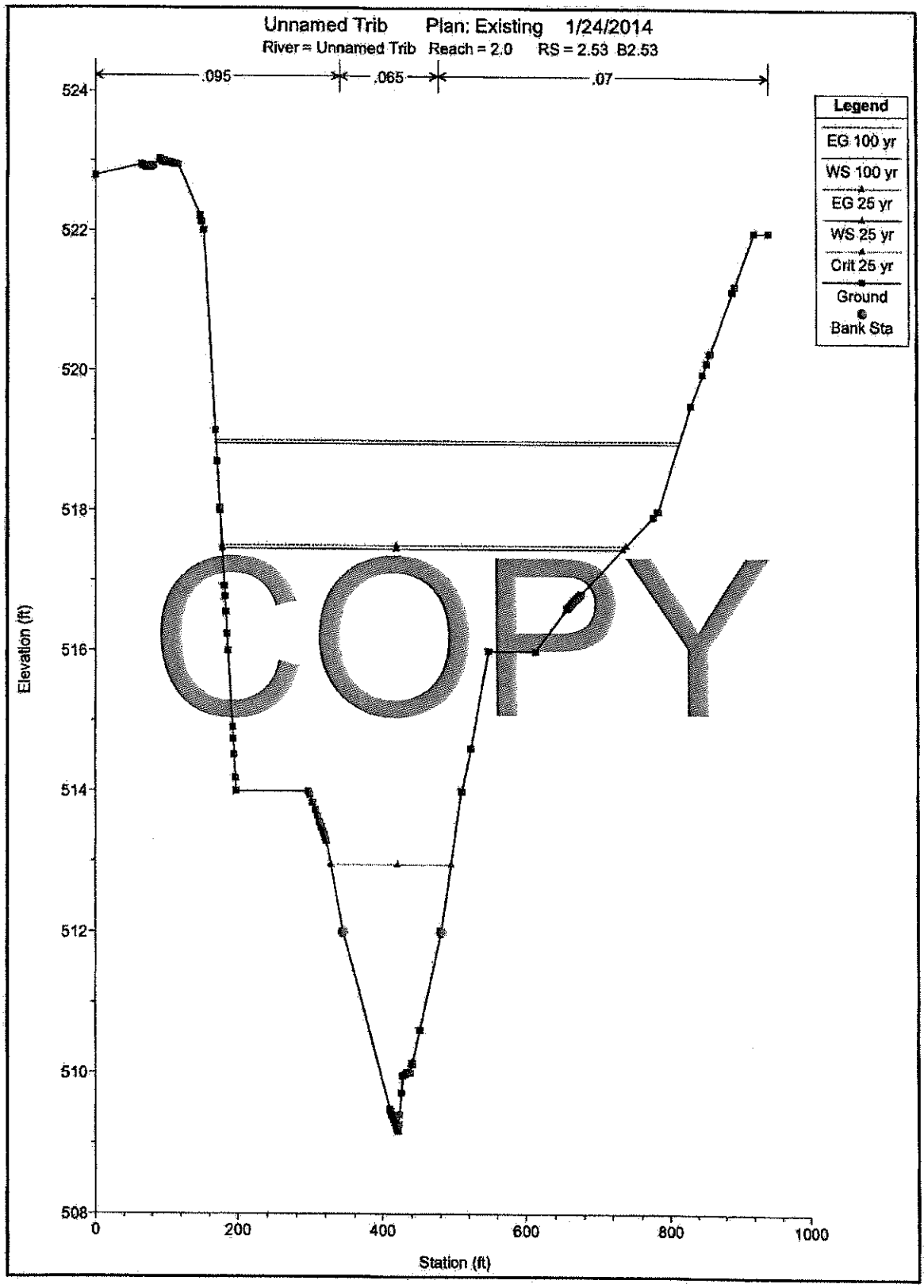

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.84 A8.84
.05
.05
0
6
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
535
530
525
520
515
510
505
Elevation (ft)
0
500
1000
1500
2000
2500
Station (ft)

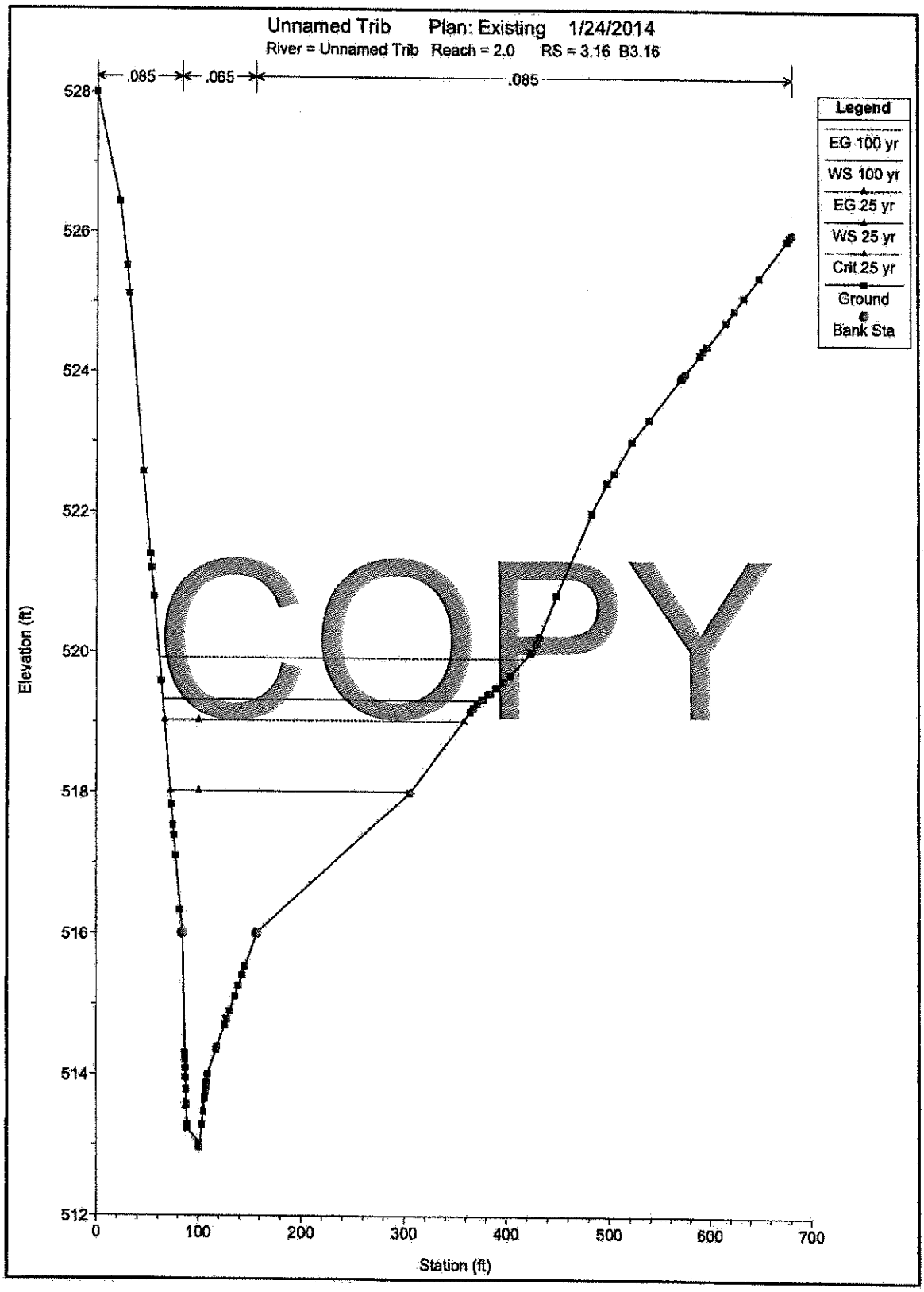

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.93 A8.93
.045
.045
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
535
530
525
520
515
510
505
0
500
1000
1500
2000
2500

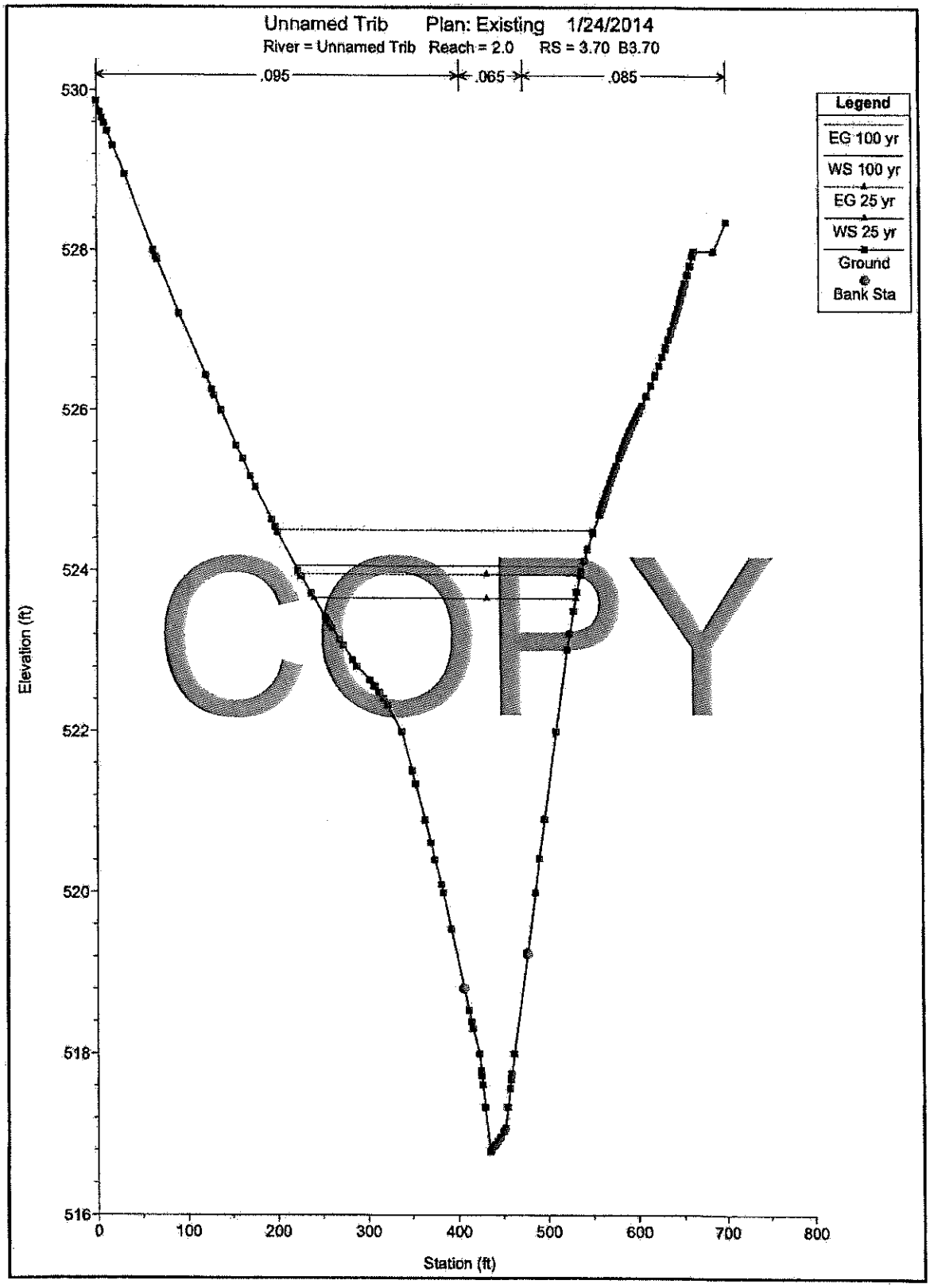

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 11.40 A11.4
.1
.1
0
8
5
Legend
EG 100 yr
EG 25 yr
Crit 100 yr
WS 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
540
535
530
525
520
515
510
0
500
1000
1500
2000
Station (ft)

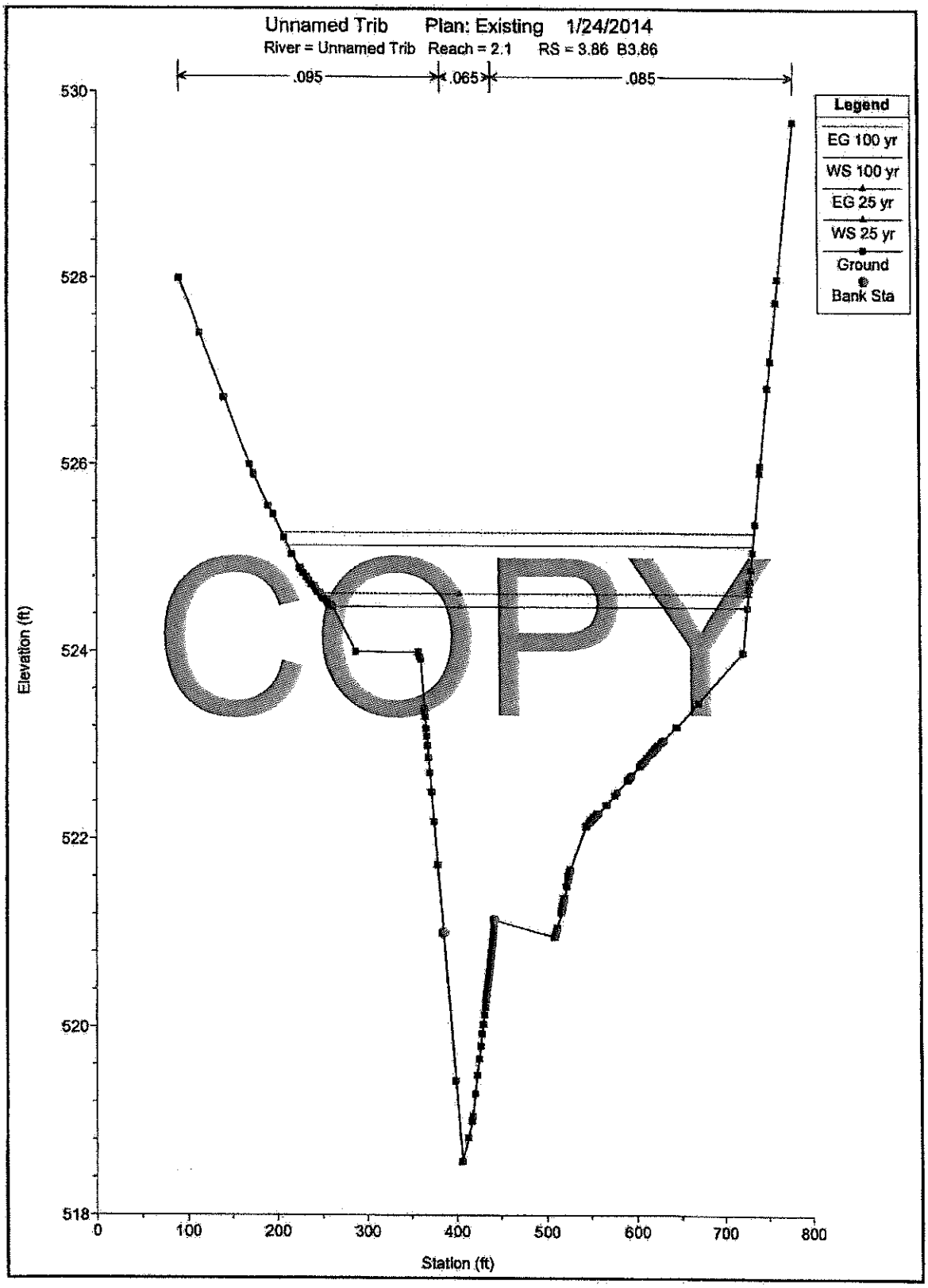

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.0 RS = 0.59 B0.59
.1
0
6
5
.07
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
525
520
515
510
505
500
495
0
200
400
600
800
1000
Station (ft)

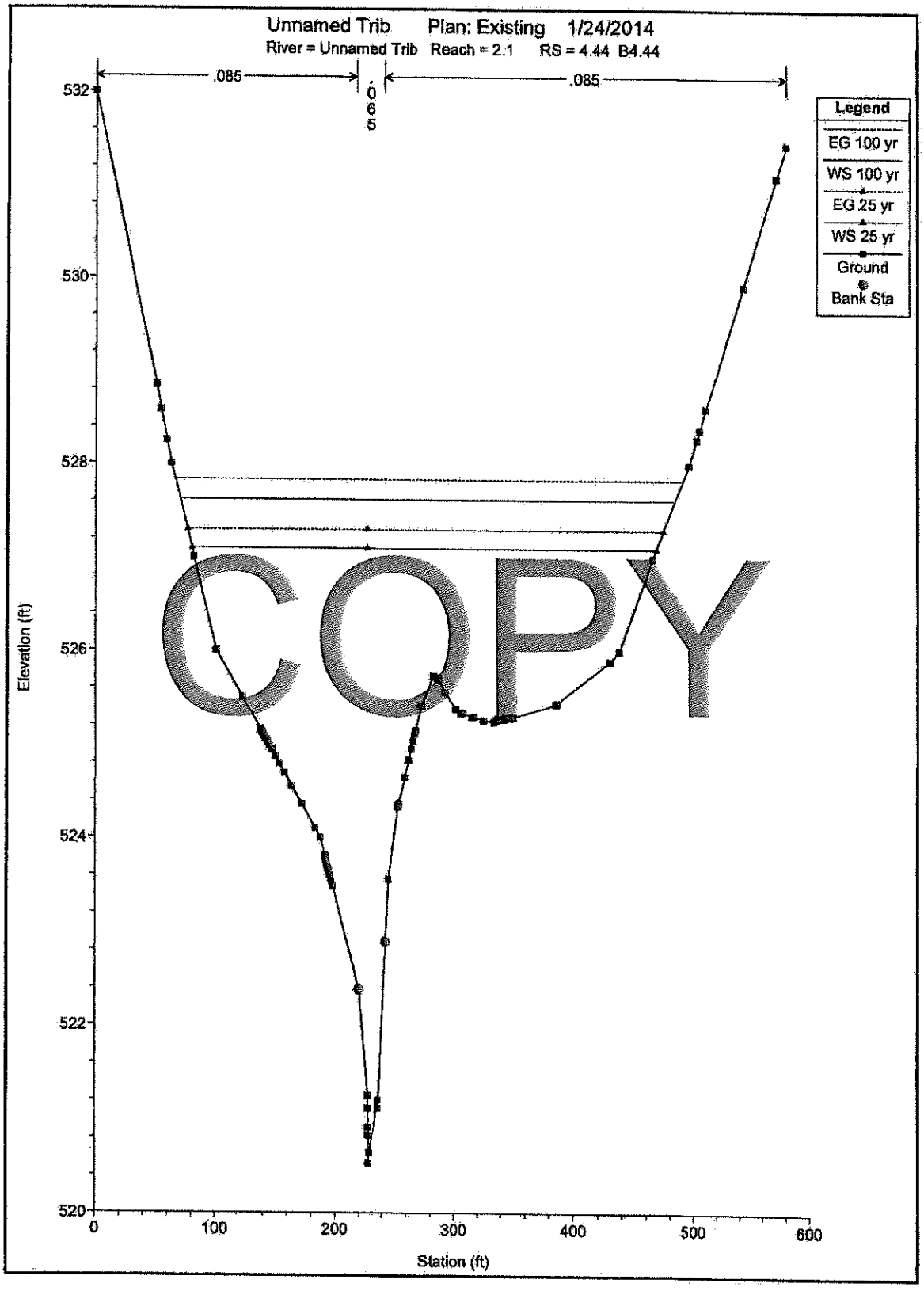

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.0 RS = 1.84 B1.84
.1
.065
.06
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
530
525
520
515
510
505
500
0
200
400
600
800
1000
1200
1400

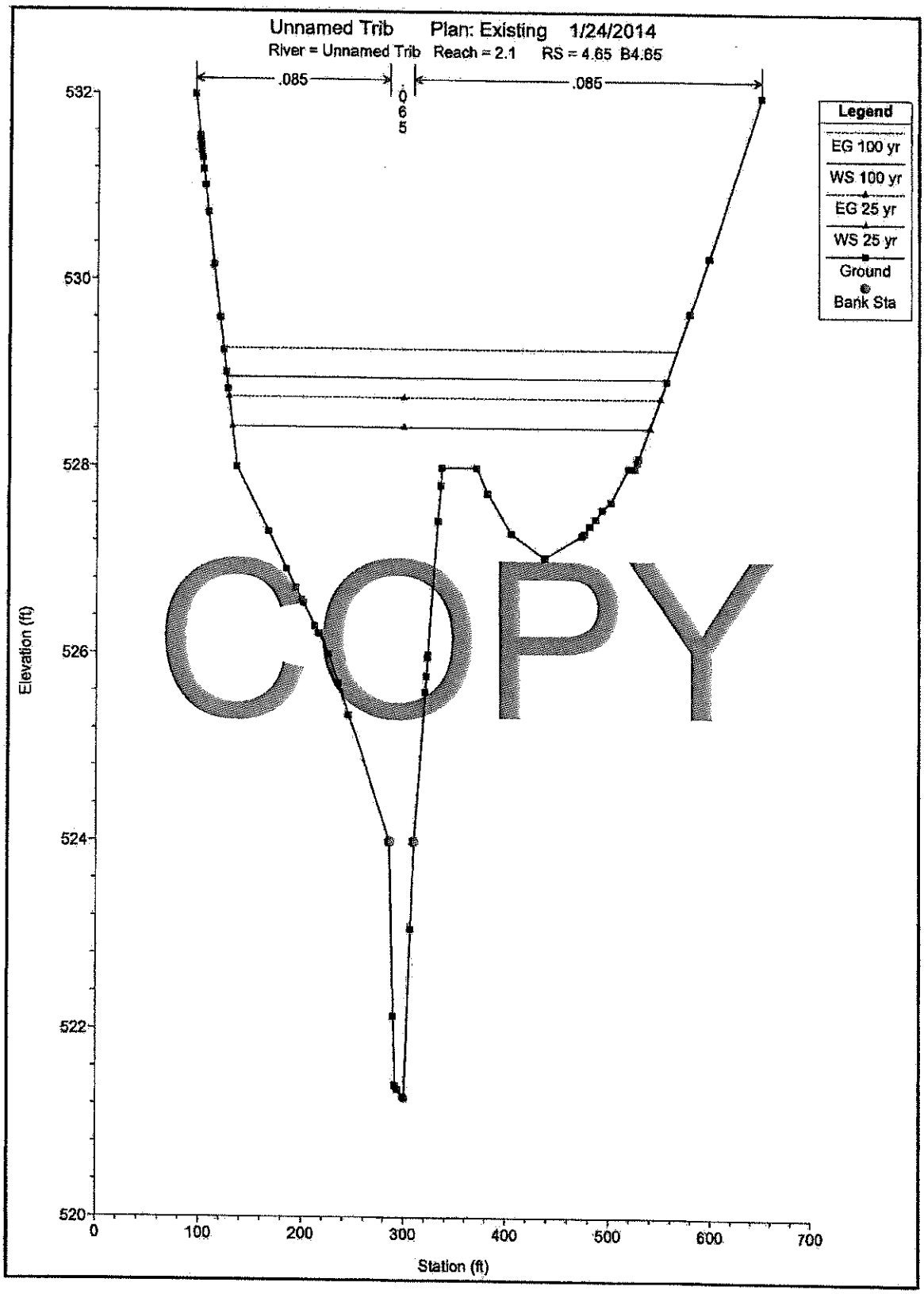

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.0 RS = 2.53 B2.53
.095
.065
.07
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
524
522
520
518
516
514
512
510
508
0
200
400
600
800
1000
COPY

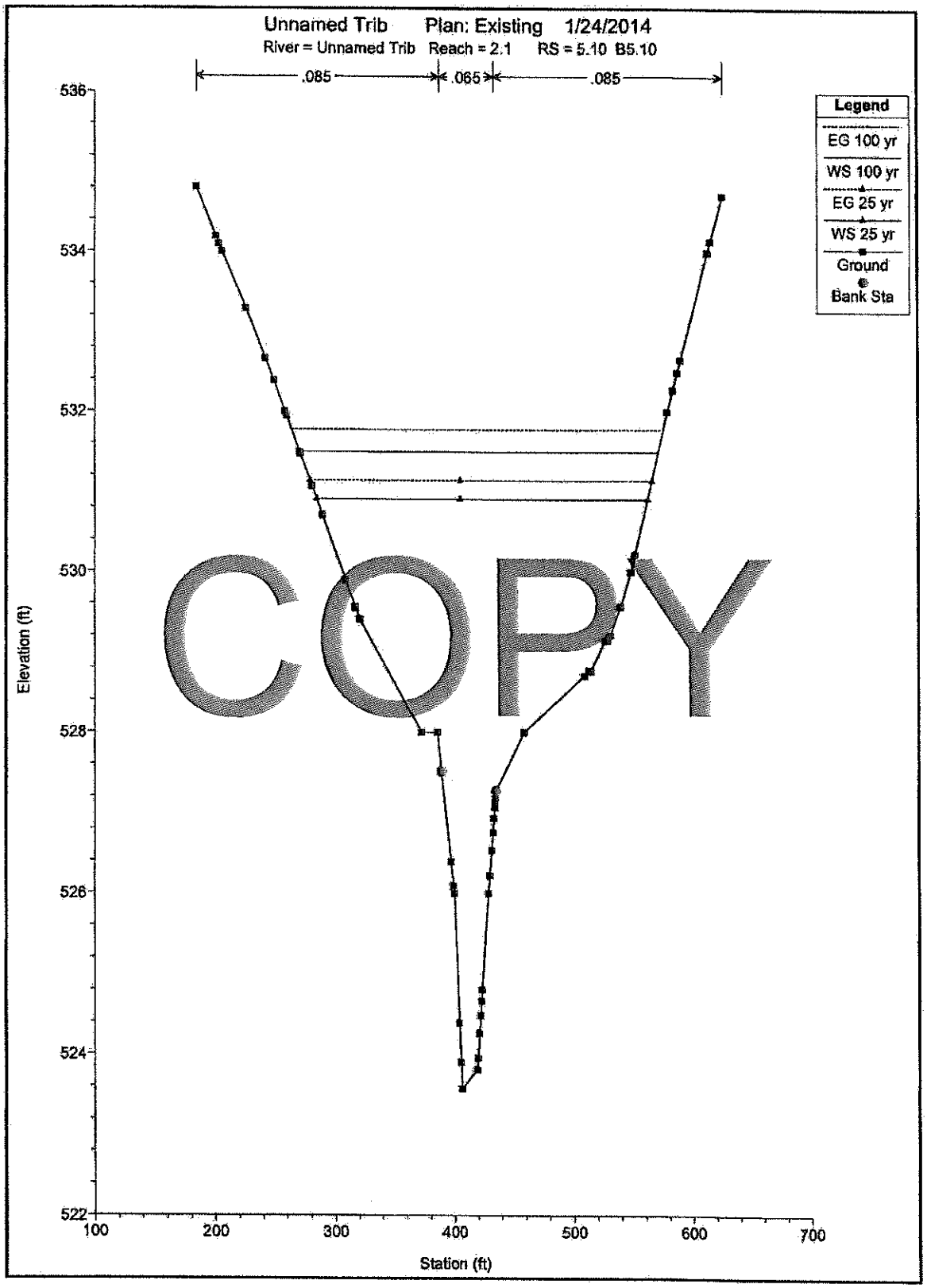

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.0 RS = 3.16 B3.16
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
528
526
524
522
520
518
516
514
512
0
100
200
300
400
500
600
700

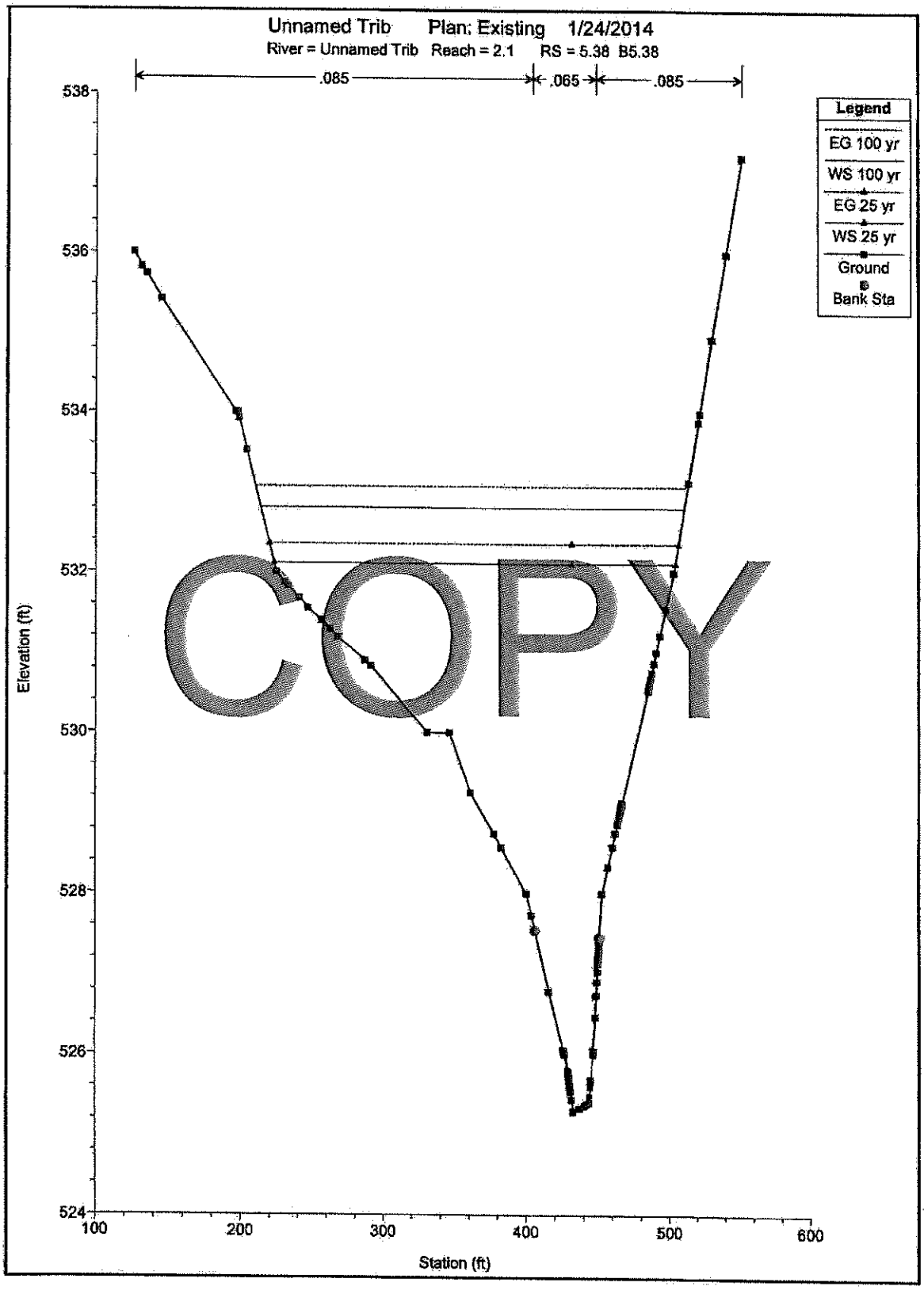

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.0 RS = 3.70 B3.70
.095
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
530
528
526
524
522
520
518
516
0
100
200
300
400
500
600
700
800
COPY

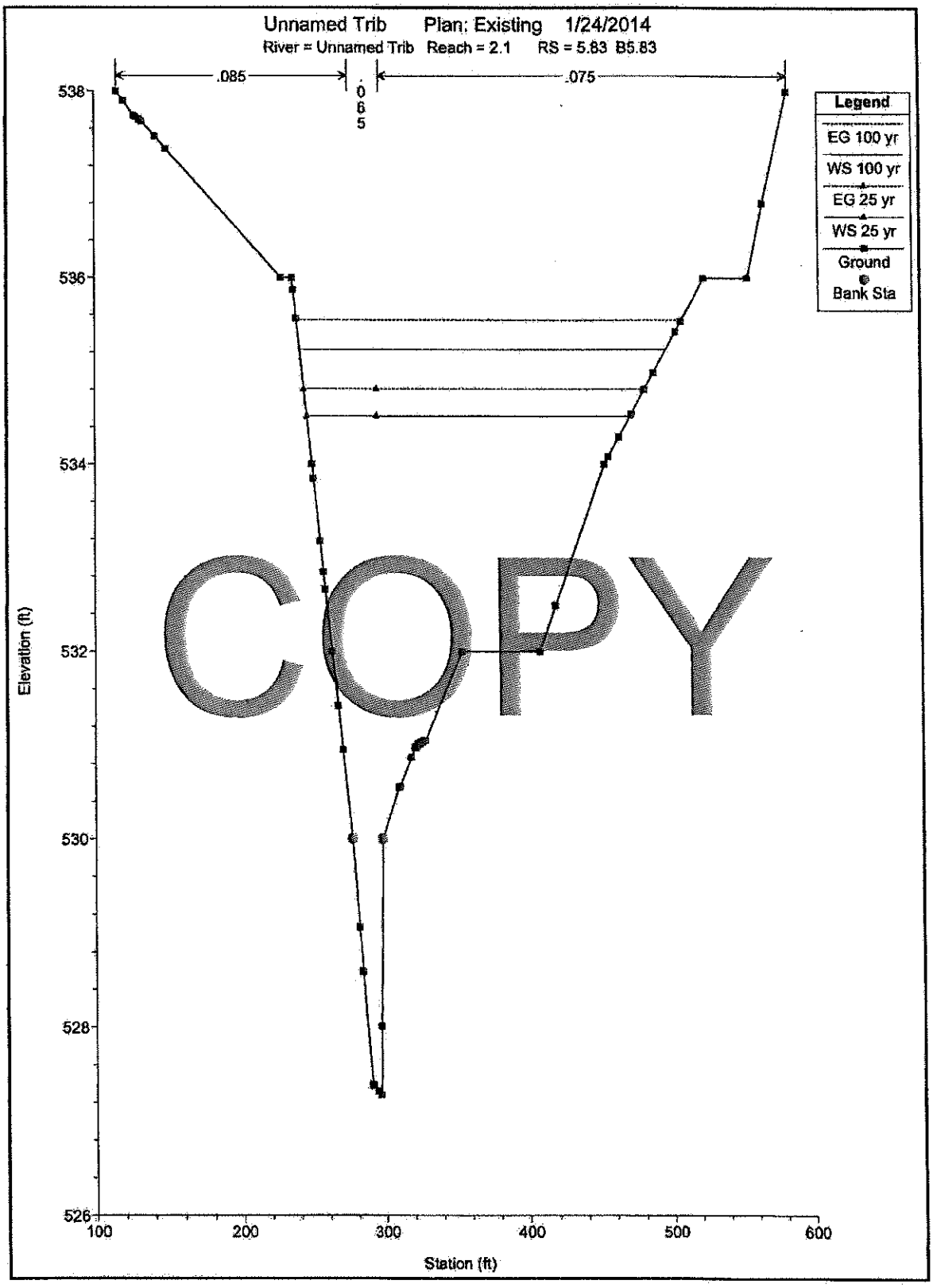

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 3.86 B3.86
.095
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
530
528
526
524
522
520
518
0
100
200
300
400
500
600
700
800
COPY

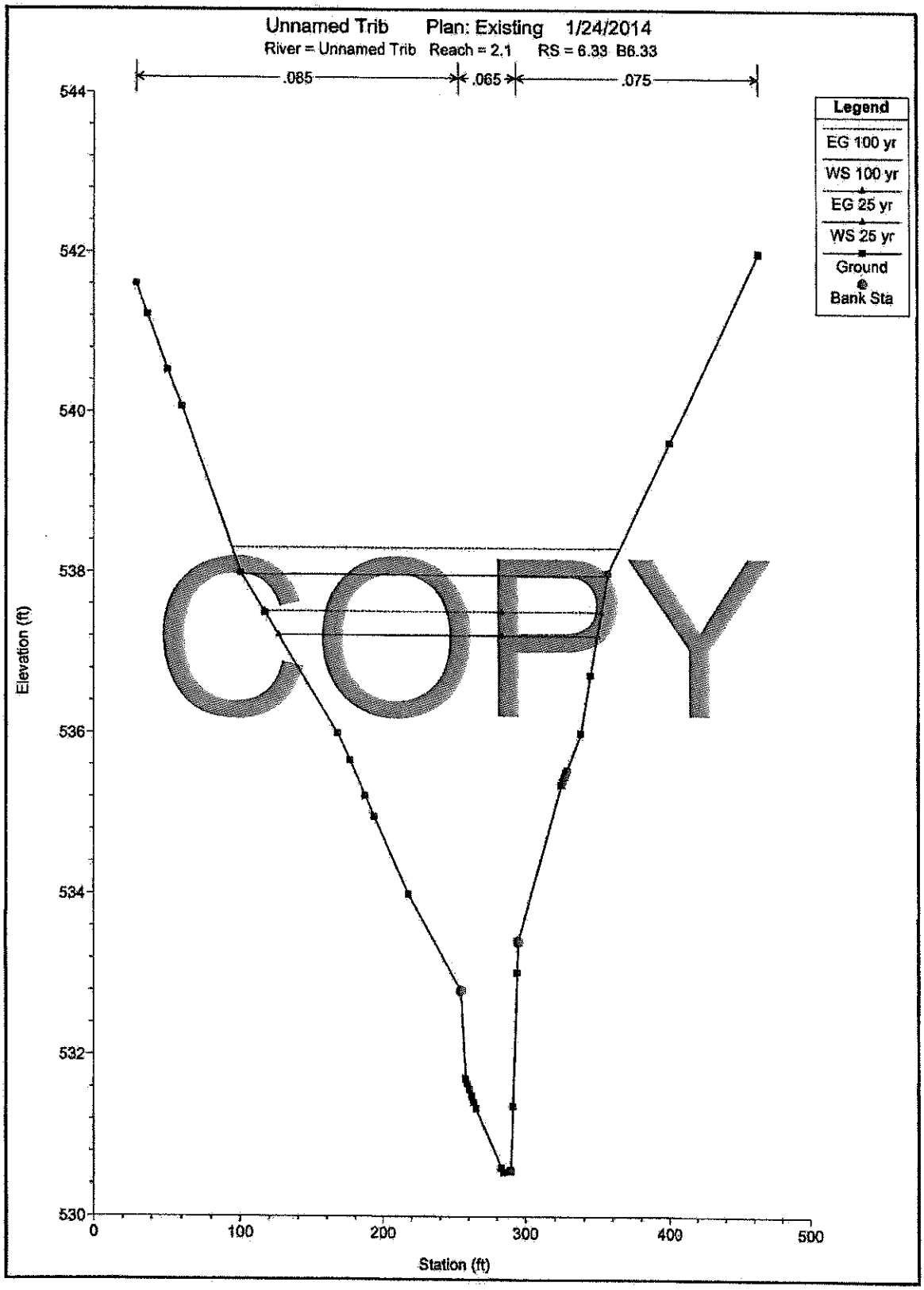

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 4.44 B4.44
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
532
530
528
526
524
522
520
0
100
200
300
400
500
600

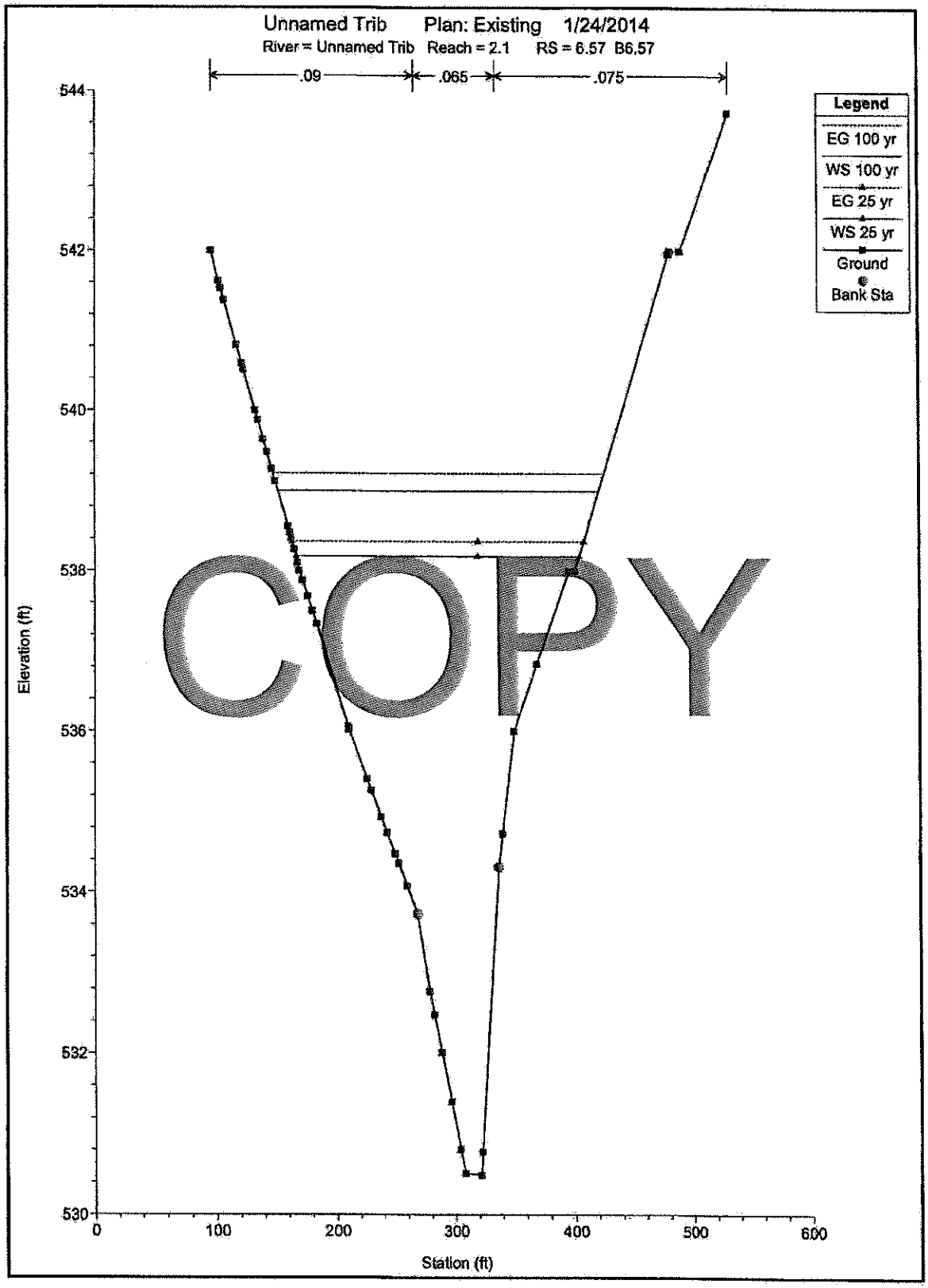

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 4.65 B4.65
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
532
530
528
526
524
522
520
0
100
200
300
400
500
600
700

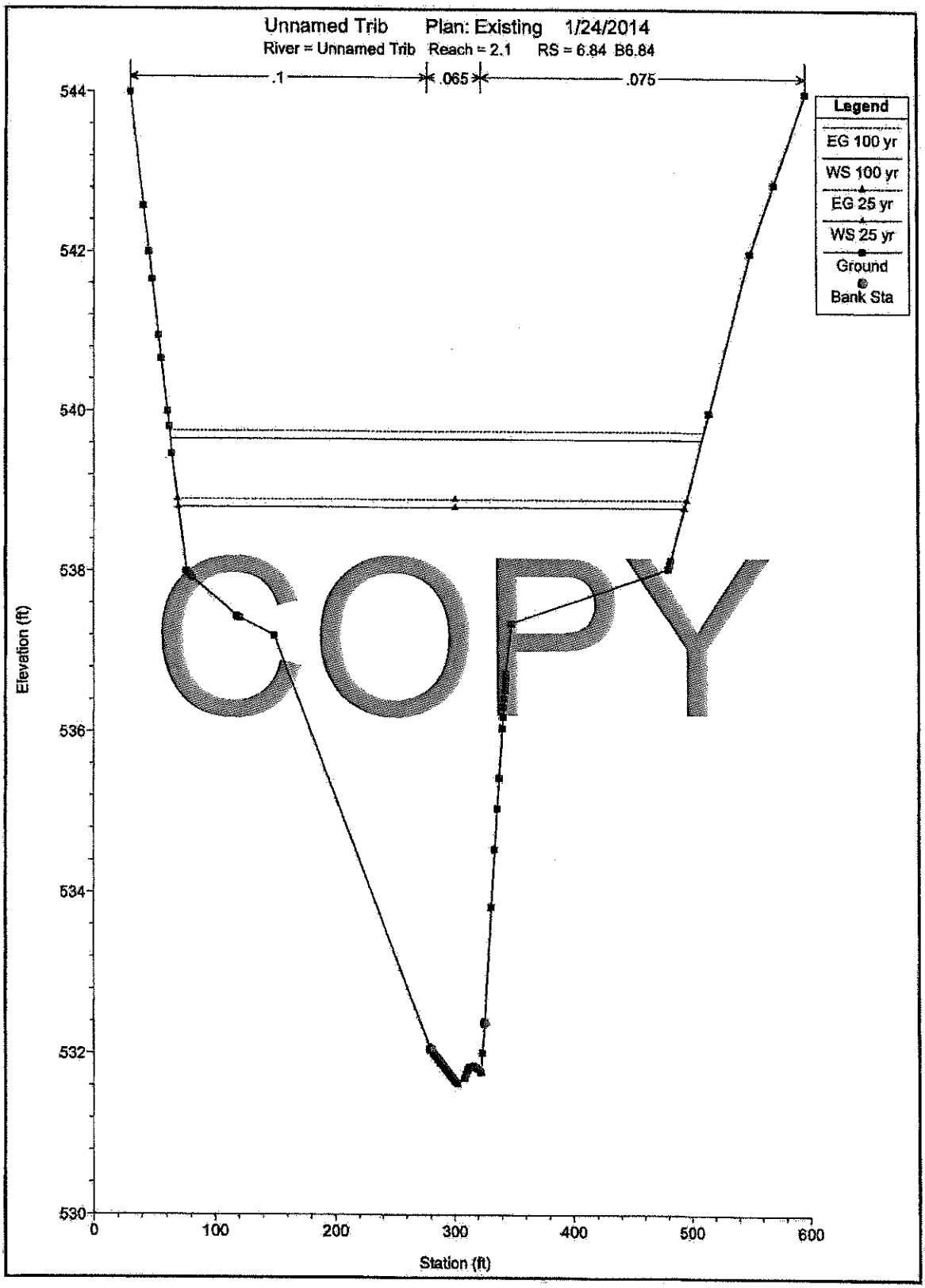

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 5.10 B5.10
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
536
534
532
530
528
526
524
522
100
200
300
400
500
600
700
COPY

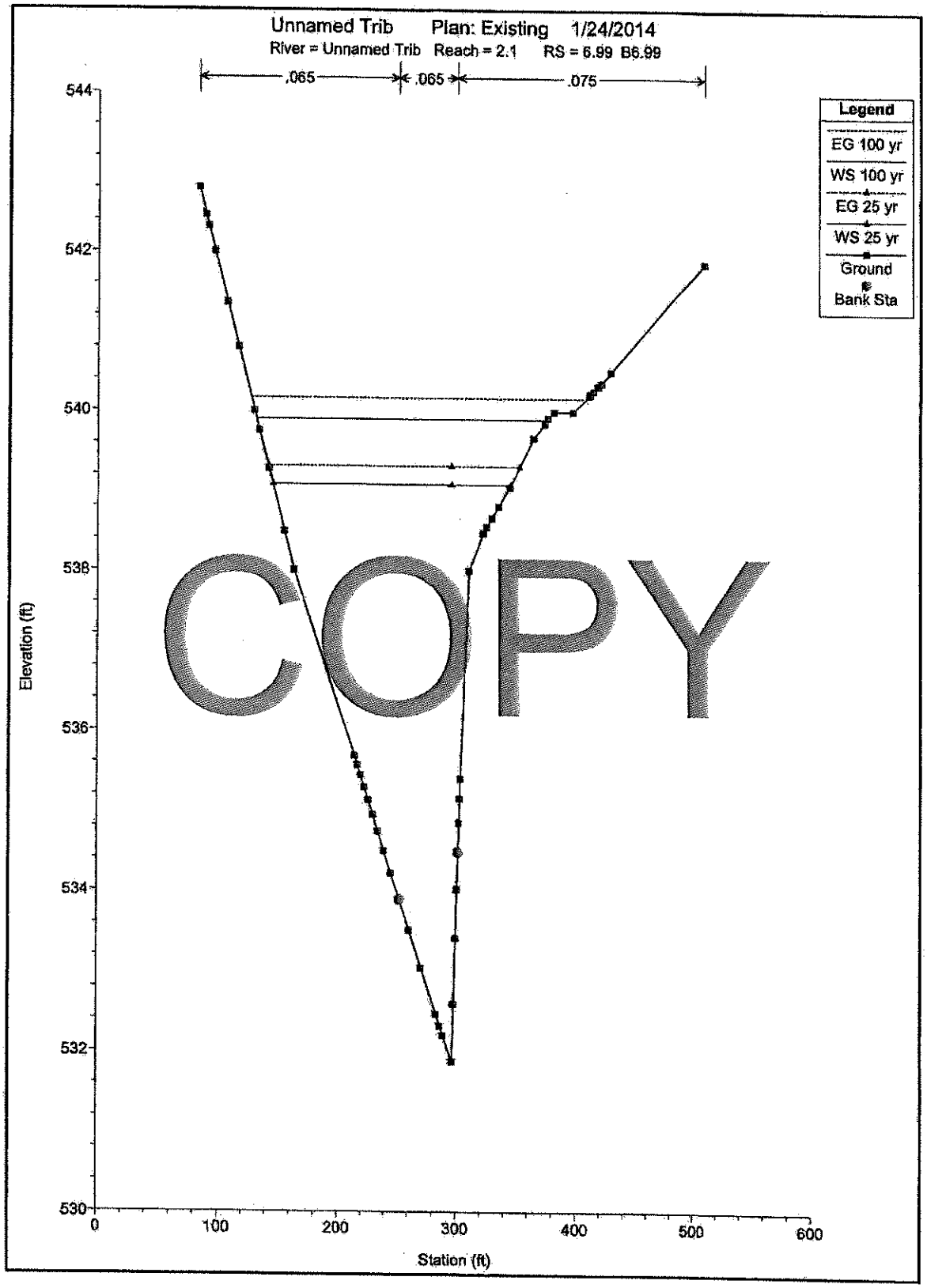

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 5.38 B5.38
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
538
536
534
532
530
528
526
524
100
200
300
400
500
600
Station (ft)
COPY

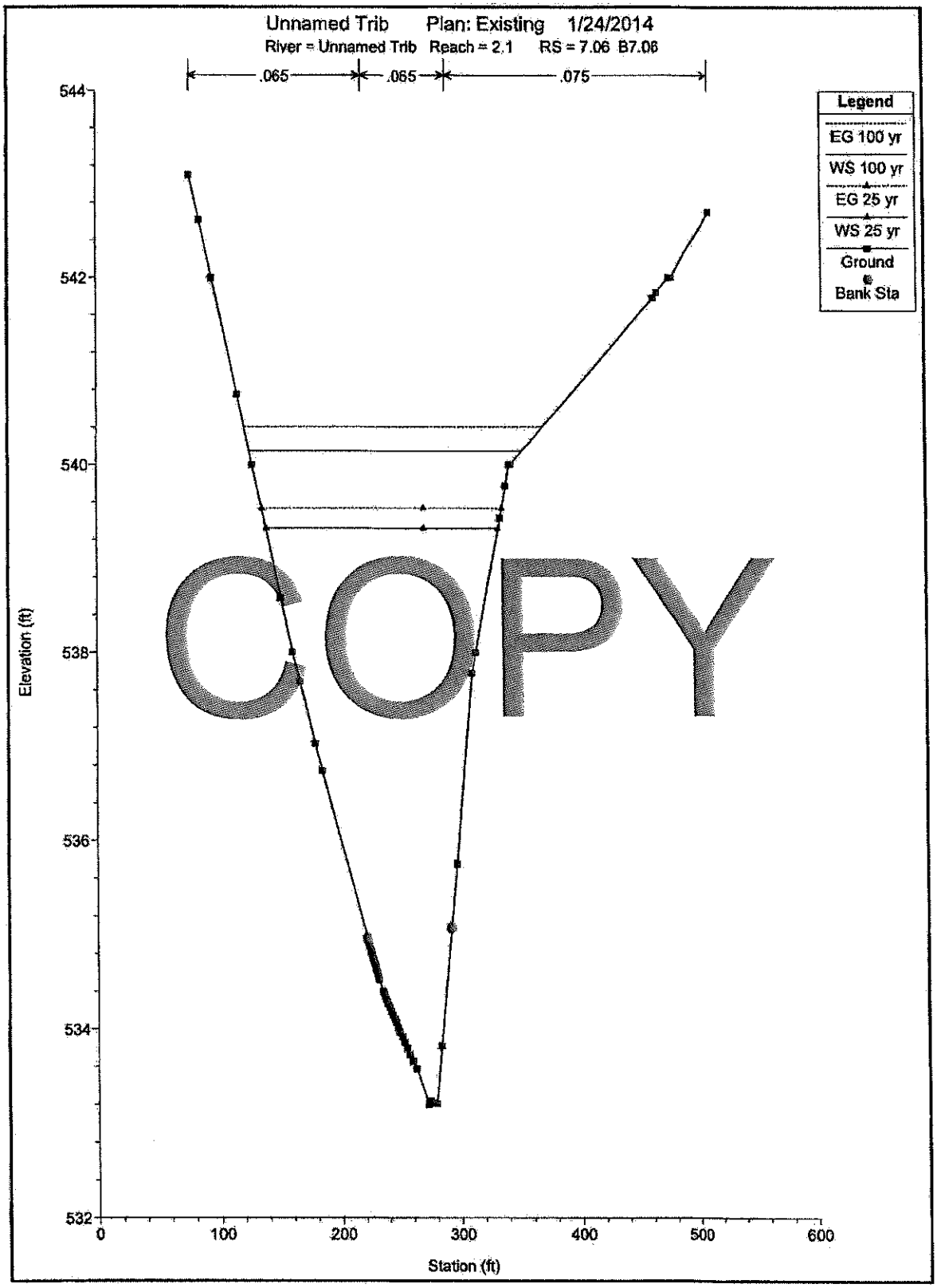

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 5.83 B5.83
.085
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
538
536
534
532
530
528
526
100
200
300
400
500
600
COPY

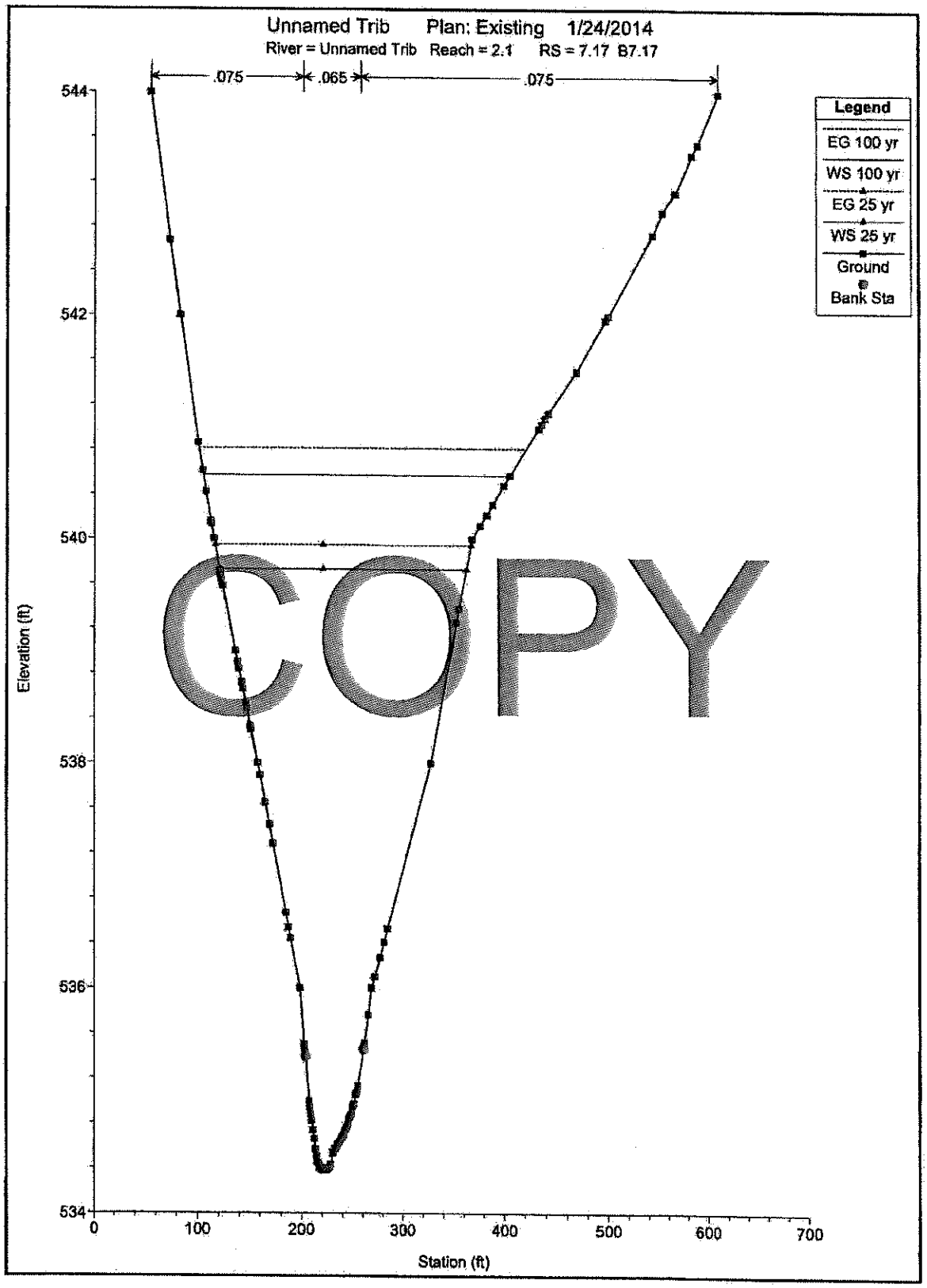

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 6.33 B6.33
.085
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
544
542
540
538
536
534
532
530
0
100
200
300
400
500
COPY

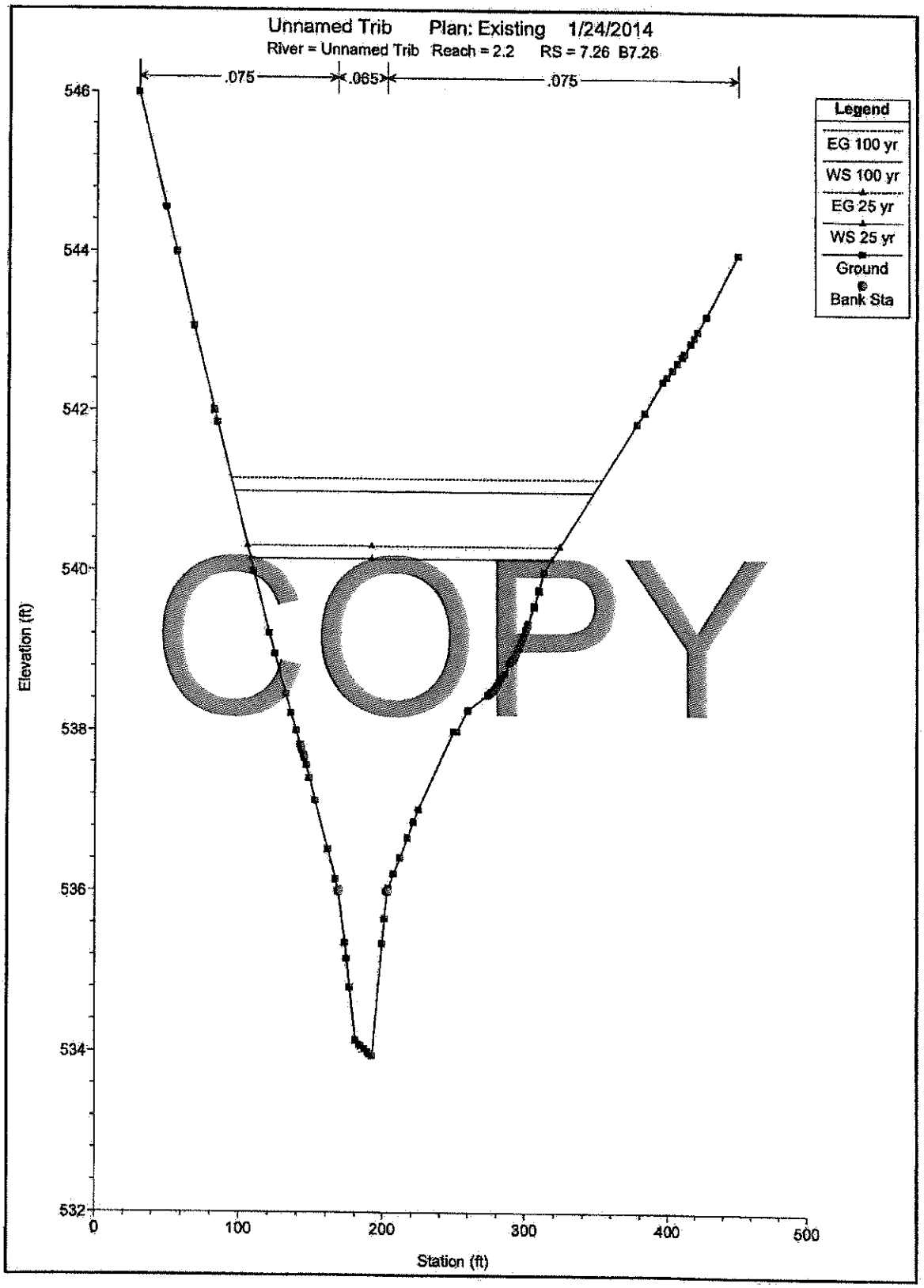

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 6.57 B6,57
.09
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
544
542
540
538
536
534
532
530
0
100
200
300
400
500
600
COPY

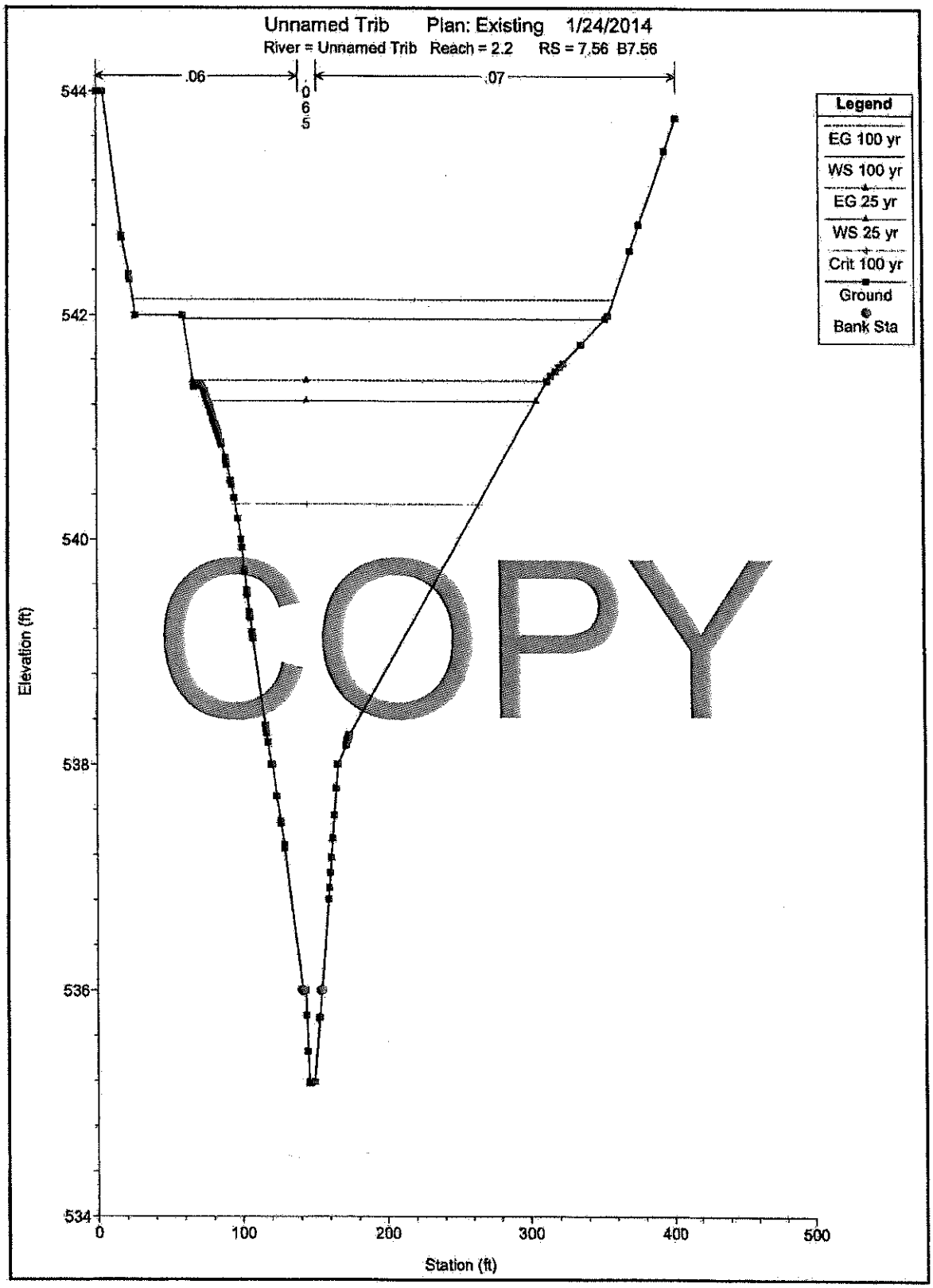

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 6.84 B6.84
.1
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
544
542
540
538
536
534
532
530
0
100
200
300
400
500
600
Station (ft)
COPY

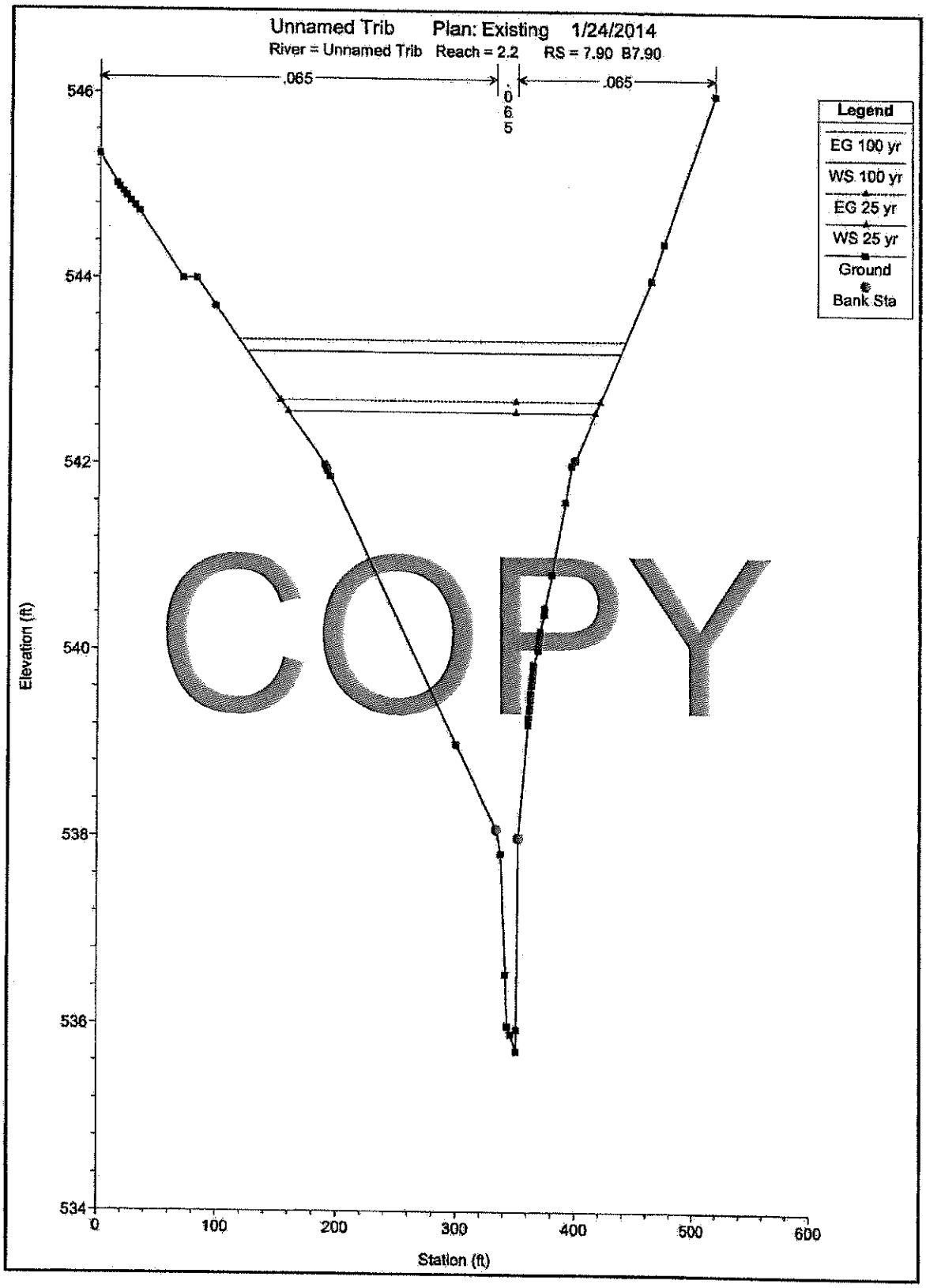

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 6.99 B6.99
.065
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
544
542
540
538
536
534
532
530
0
100
200
300
400
500
600
Station (ft)

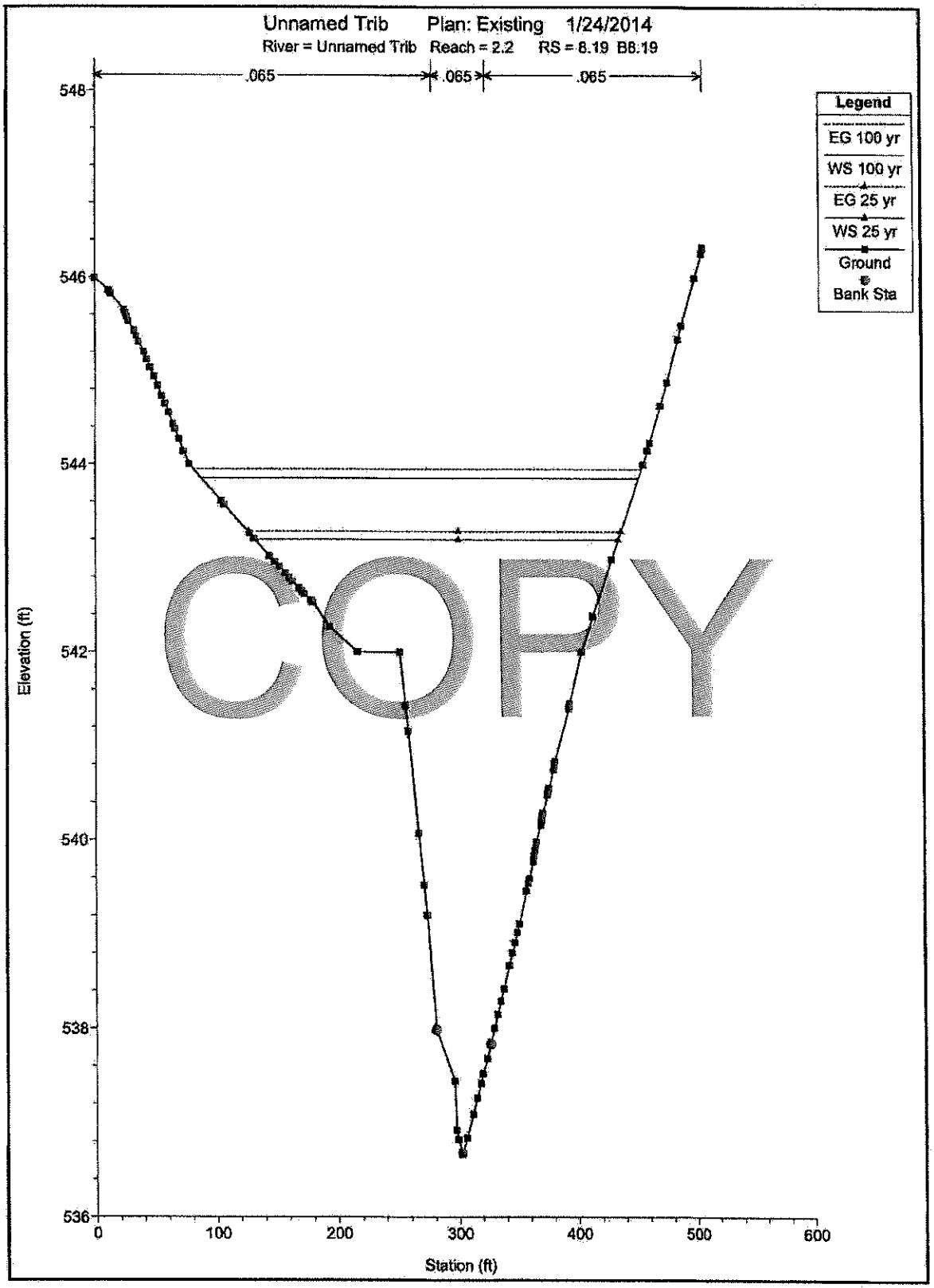

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 7.06 B7.06
.065
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
544
542
540
538
536
534
532
0
100
200
300
400
500
600
Station (ft)
COPY

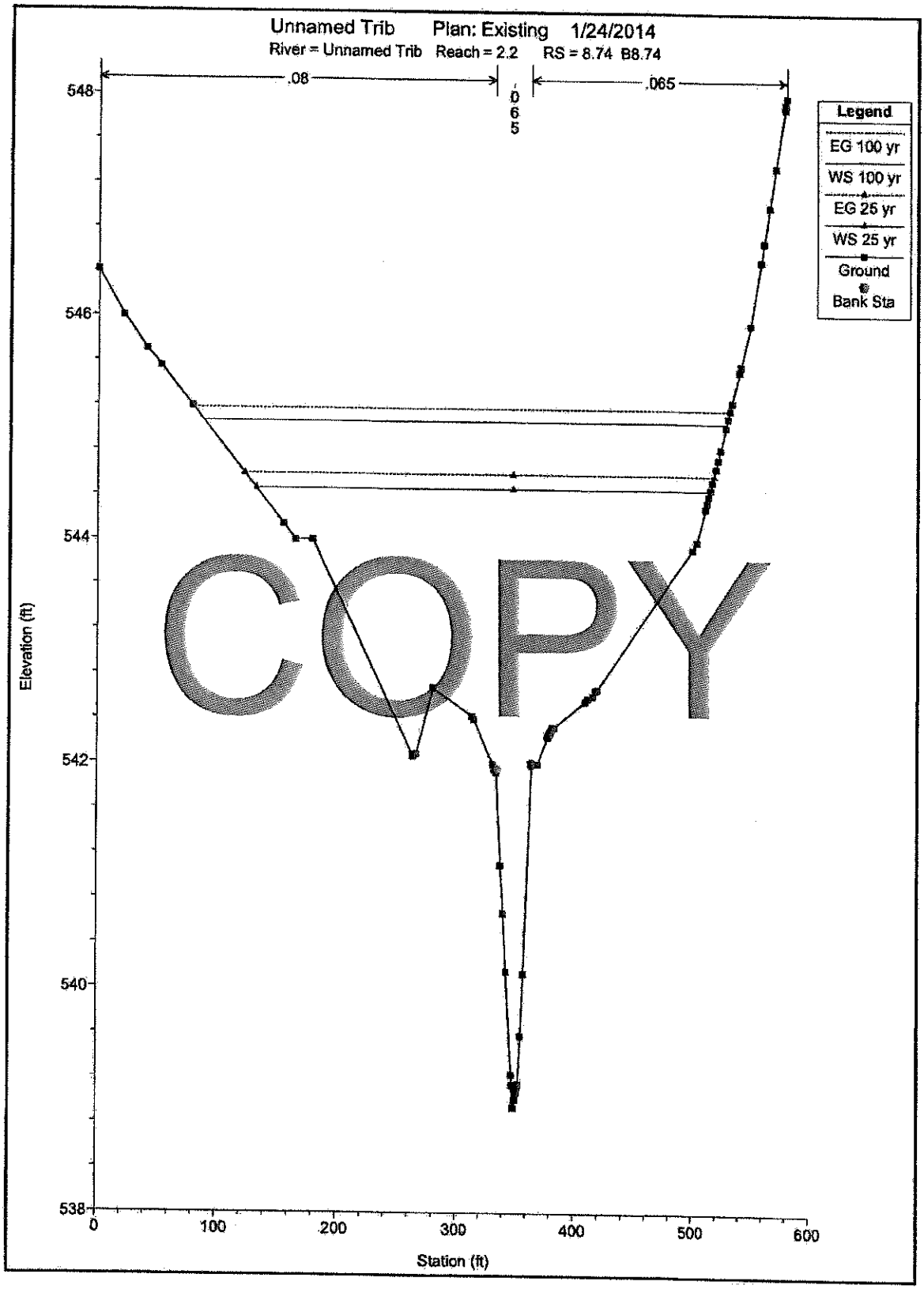

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 7.17 B7.17
.075
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
544
542
540
538
536
534
0
100
200
300
400
500
600
700

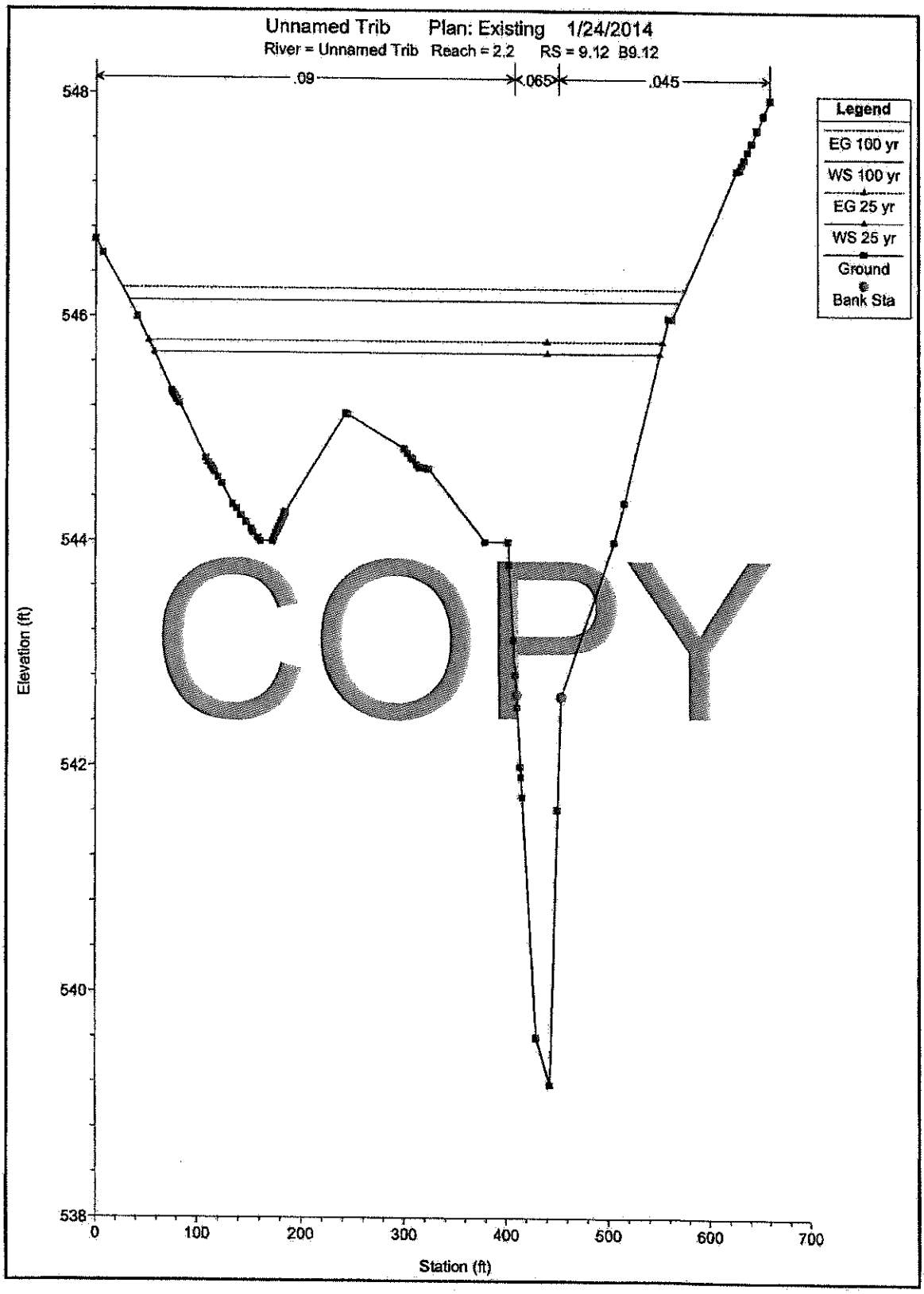

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 7.26 B7.26
.075
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
546
544
542
540
538
536
534
532
0
100
200
300
400
500
COPY

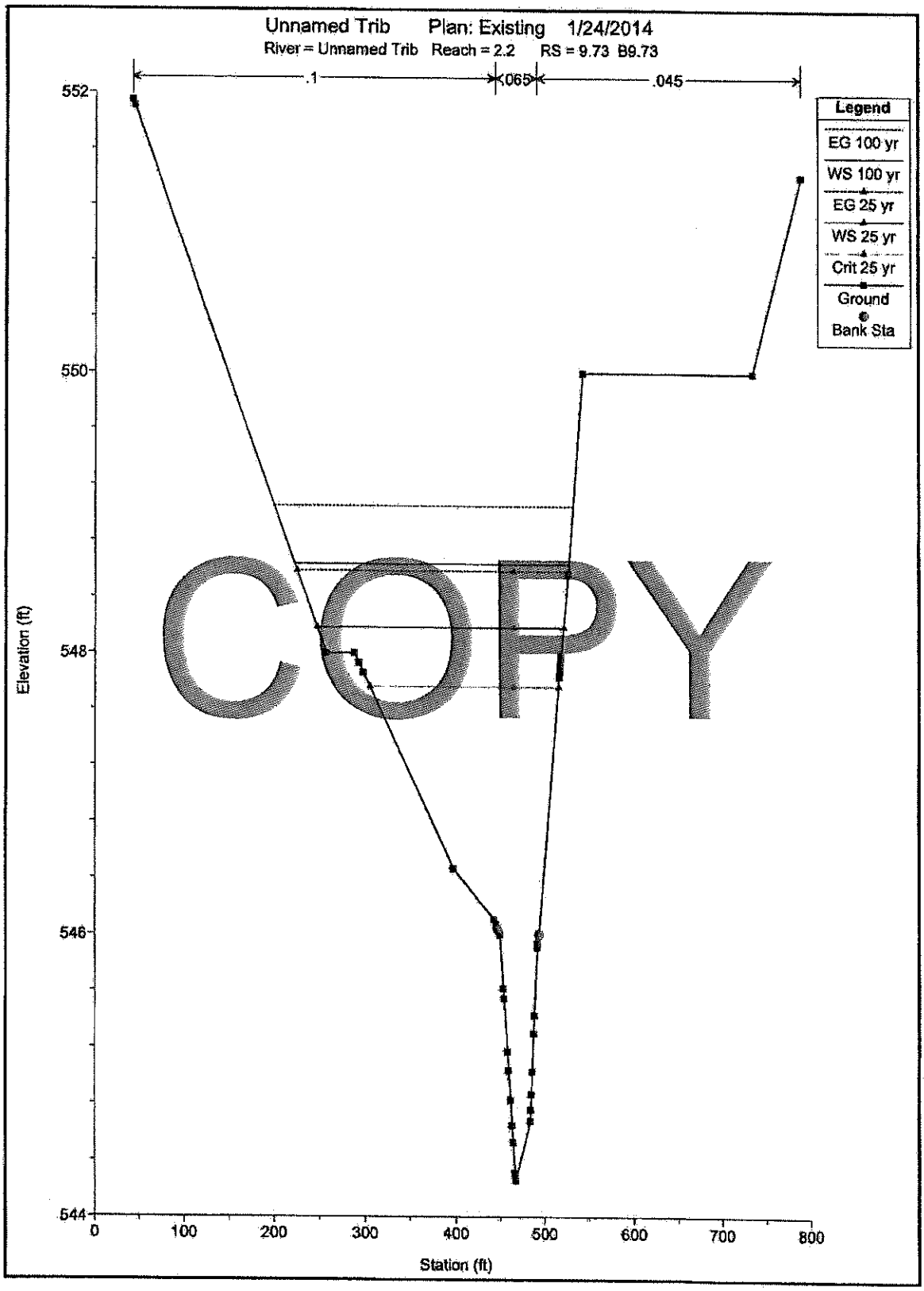

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 7.56 B7.56
.06
.07
0
6
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Ground
Bank Sta
544
542
540
538
536
534
Elevation (ft)
0
100
200
300
400
500
Station (ft)
COPY

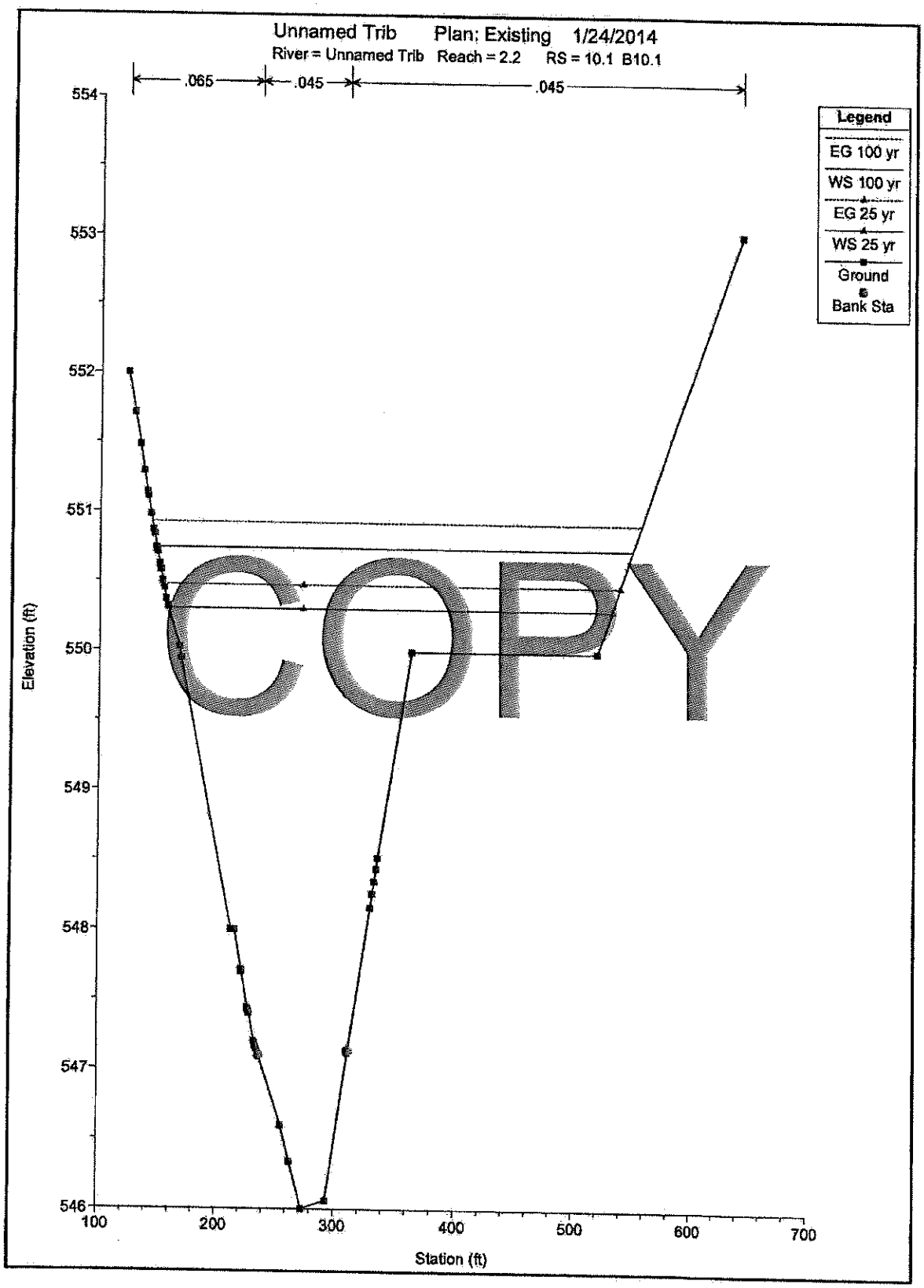

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 7.90 B7.90
.065
.065
.065
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
546
544
542
540
538
536
534
0
100
200
300
400
500
600
COPY

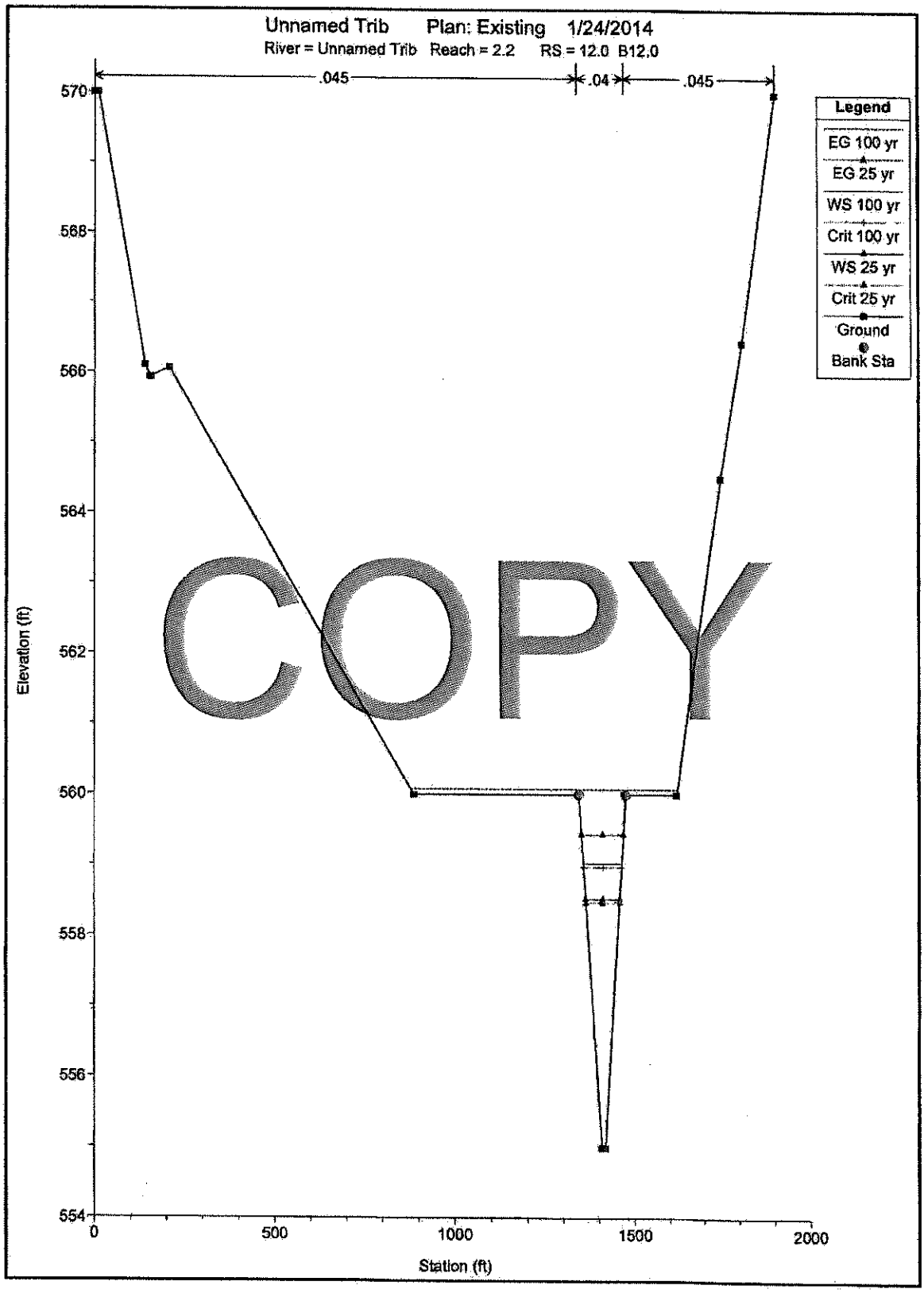

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 8.19 BB:19
.065
.065
.065
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
548
546
544
542
540
538
536
Elevation (ft)
0
100
200
300
400
500
600
Station (ft)
COPY

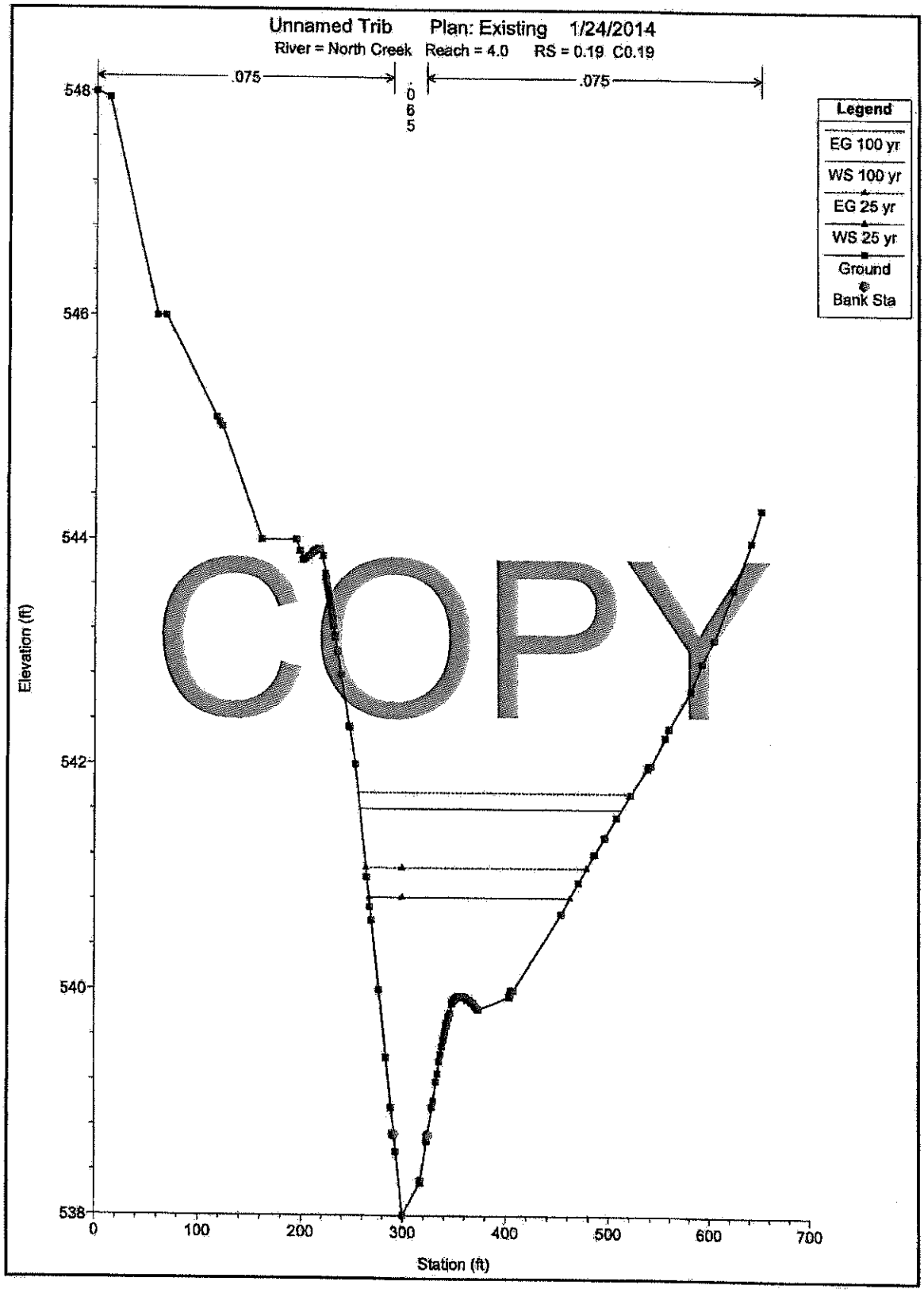

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 8.74 B8.74
.08
.065
.065
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
548
546
544
542
540
538
Elevation (ft)
0
100
200
300
400
500
600
Station (ft)

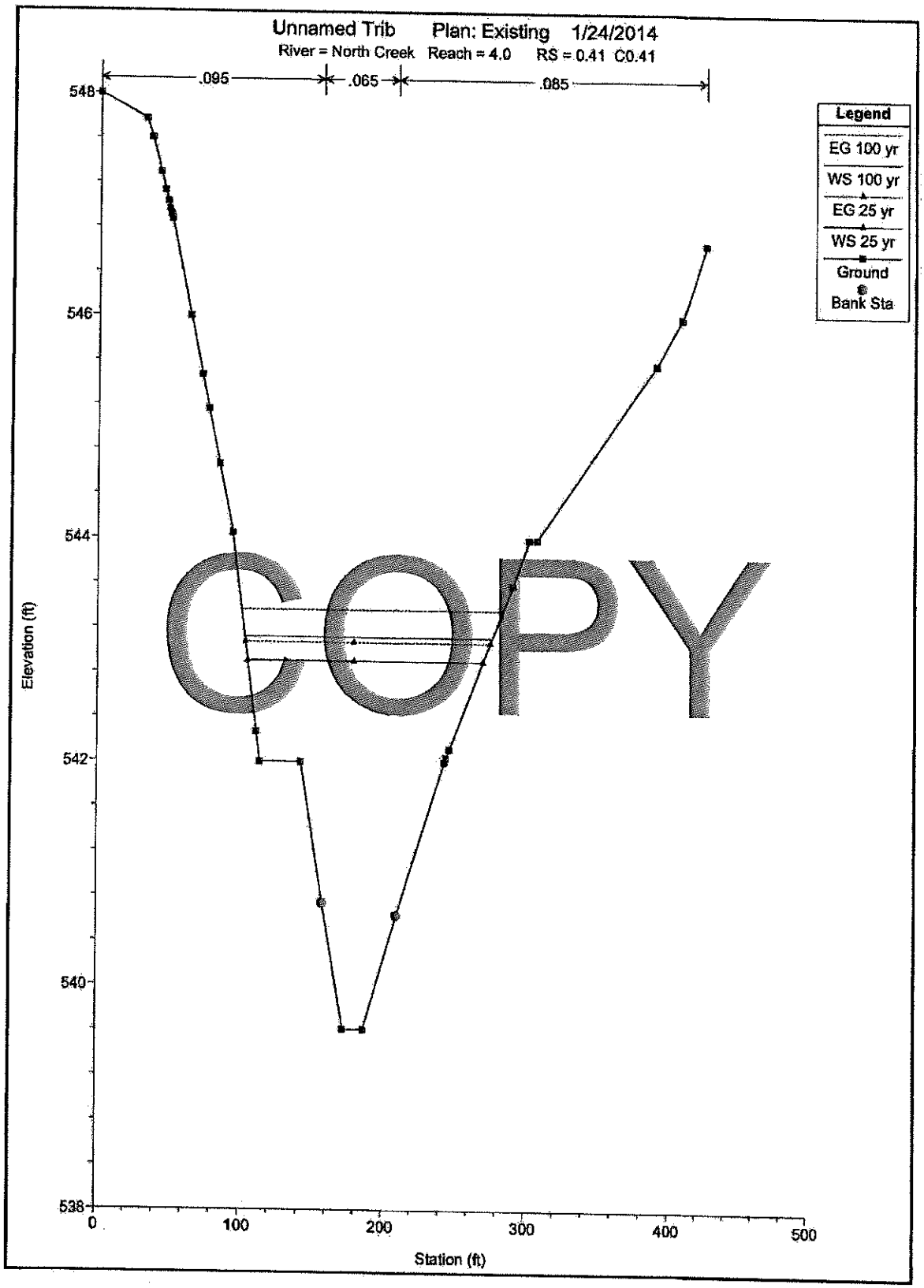

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 9.12 B9.12
.09
.065
.045
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
548
546
544
542
540
538
Elevation (ft)
0
100
200
300
400
500
600
700
Station (ft)
COPY

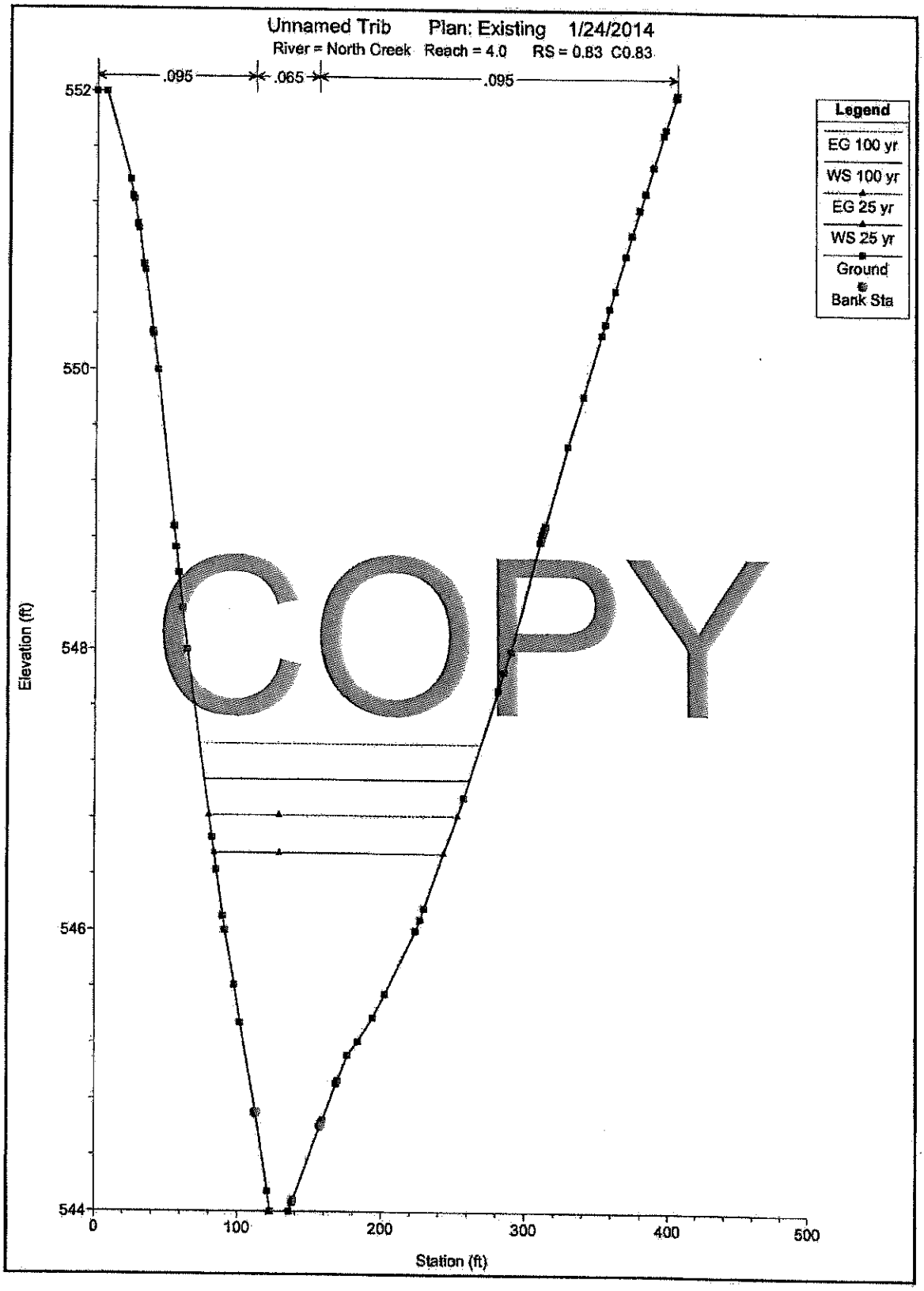

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 9.73 B9.73
.1
.065
.045
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
552
550
548
546
544
Elevation (ft)
0
100
200
300
400
500
600
700
800
Station (ft)
COPY

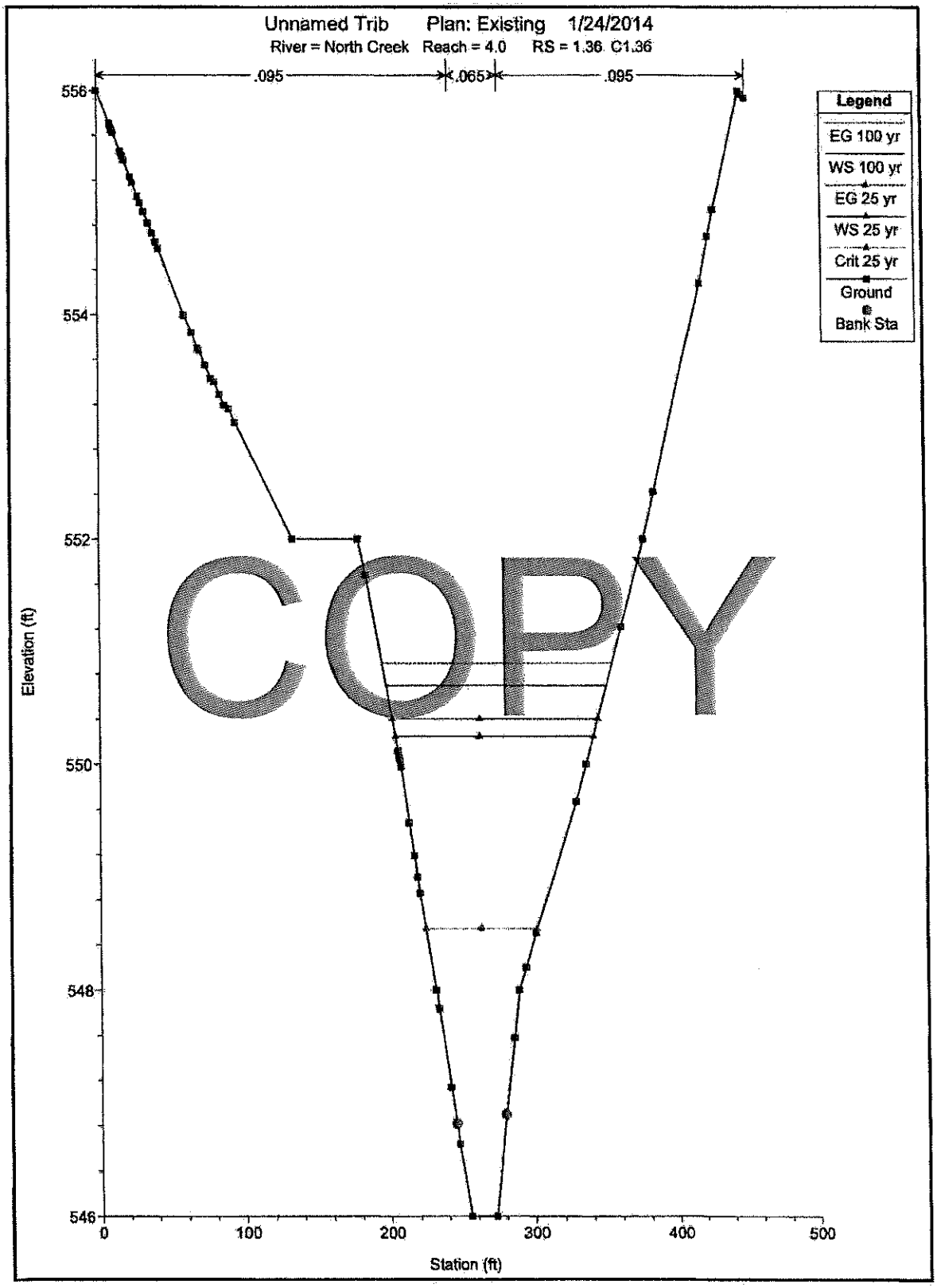

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 10.1 B10.1
.065
.045
.045
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
554
553
552
551
550
549
548
547
546
100
200
300
400
500
600
700
COPY

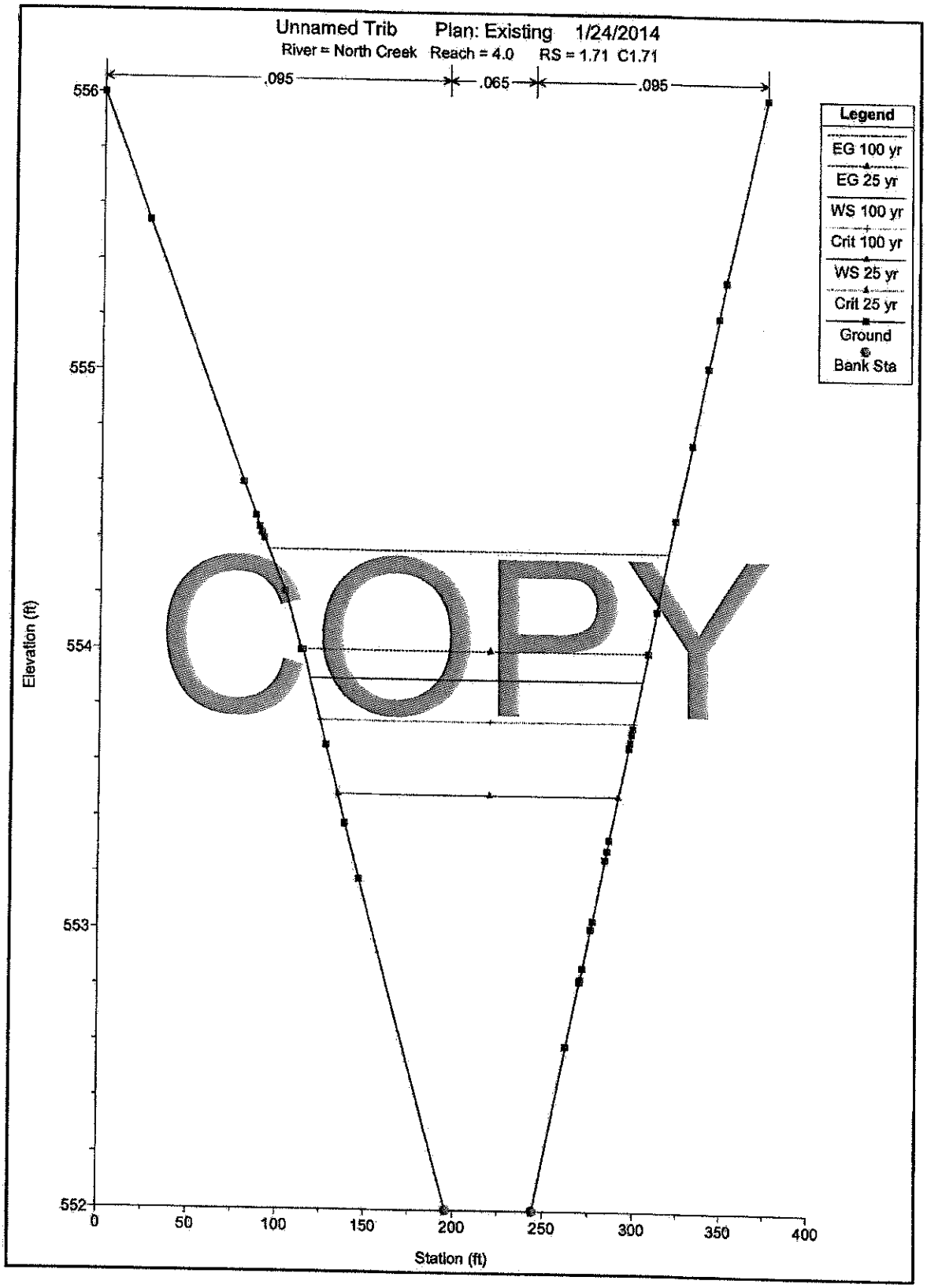

Unnamed Trib Plan: Existing 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 12.0 B12,0
.045
.04
.045
Legend
EG 100 yr
EG 25 yr
WS 100 yr
Crit 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
570
568
566
564
562
560
558
556
554
Elevation (ft)
0
500
1000
1500
2000
Station (ft)
COPY

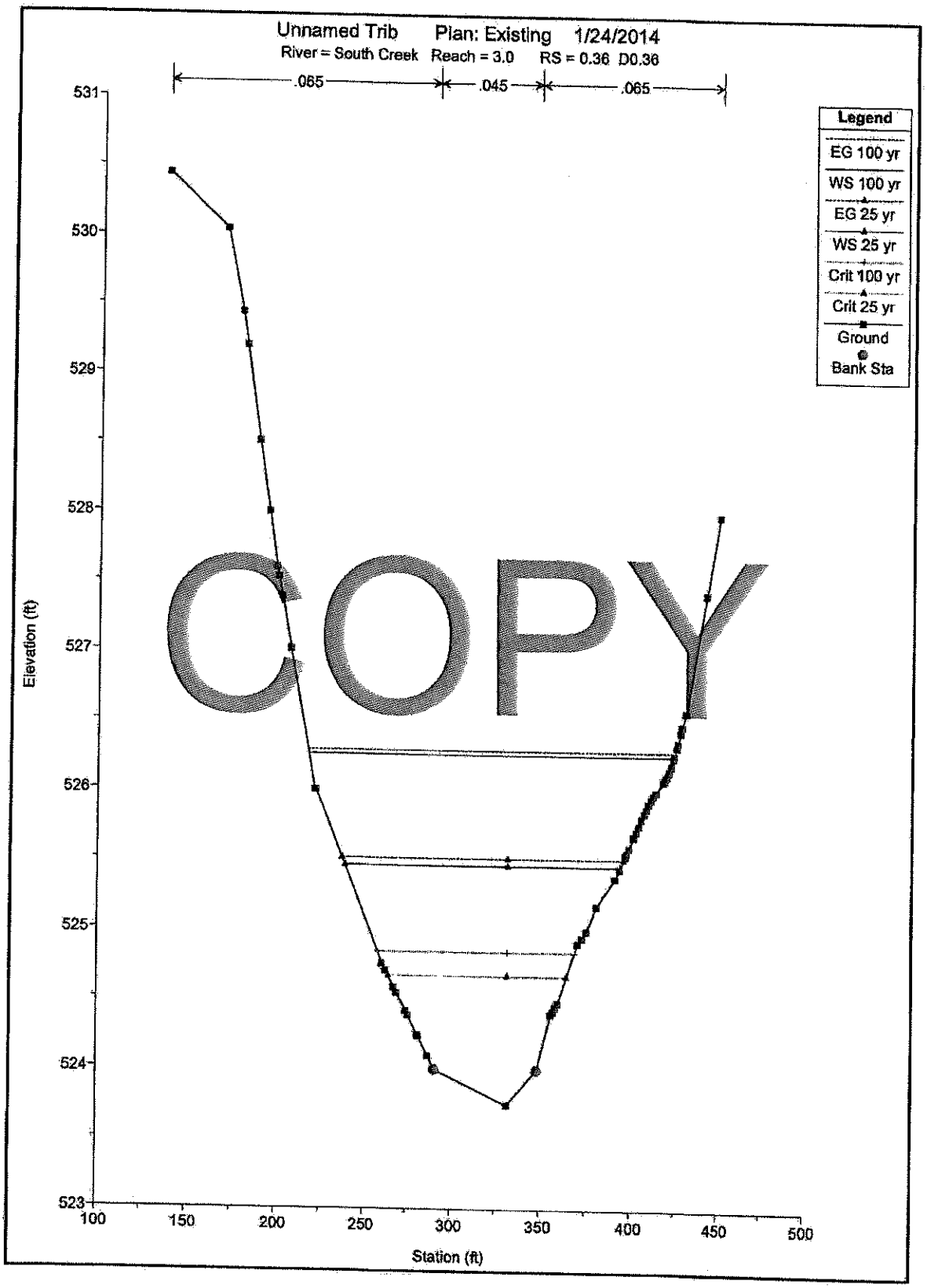

Unnamed Trib Plan: Existing 1/24/2014
River = North Creek Reach = 4.0 RS = 0.19 C0.19
.075
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
548
546
544
542
540
538
Elevation (ft)
0
100
200
300
400
500
600
700
Station (ft)
COPY

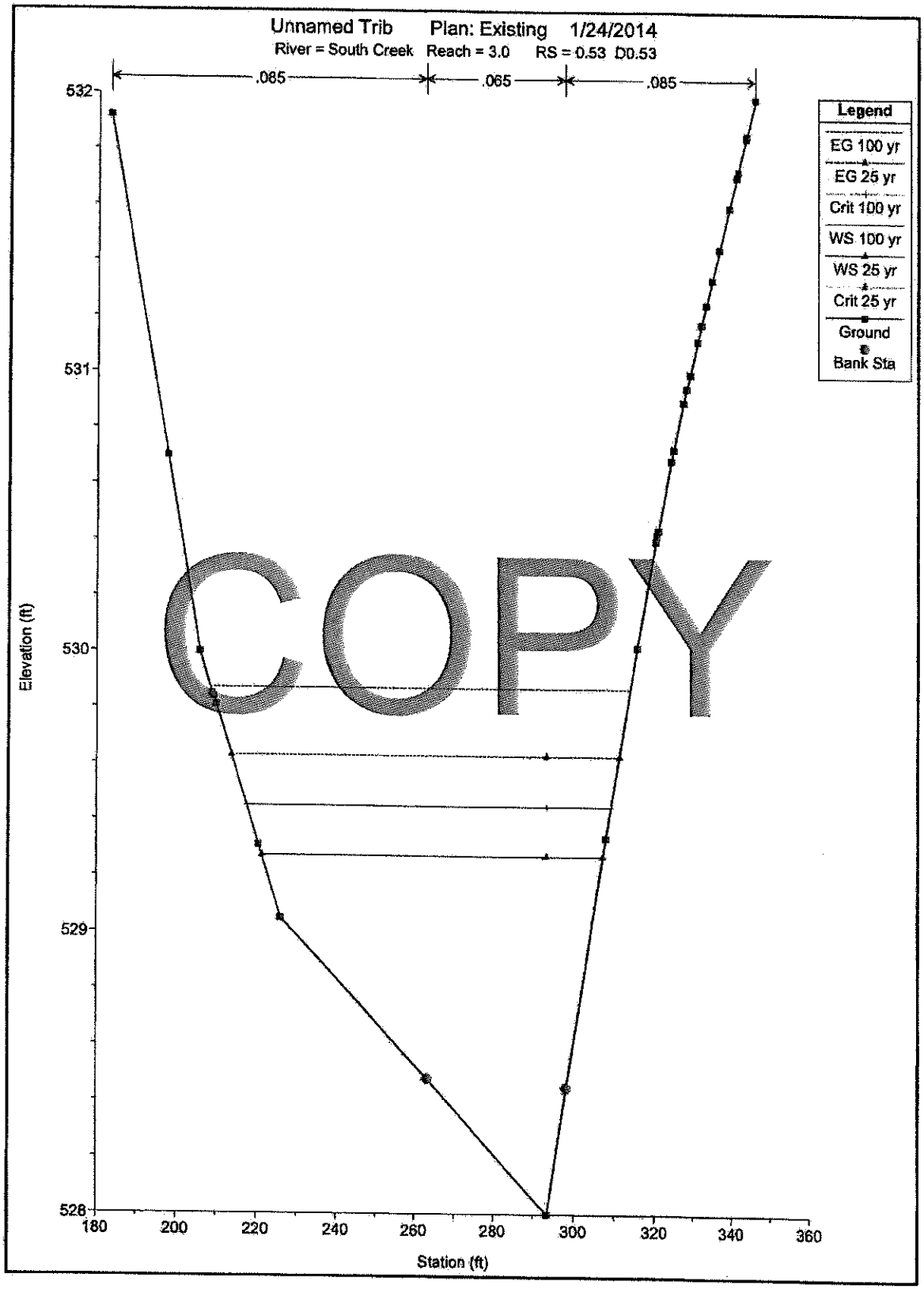

Unnamed Trib Plan: Existing 1/24/2014
River = North Creek Reach = 4.0 RS = 0.41 C0.41
.095
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
548
546
544
542
540
538
Elevation (ft)
0
100
200
300
400
500
Station (ft)
COPY

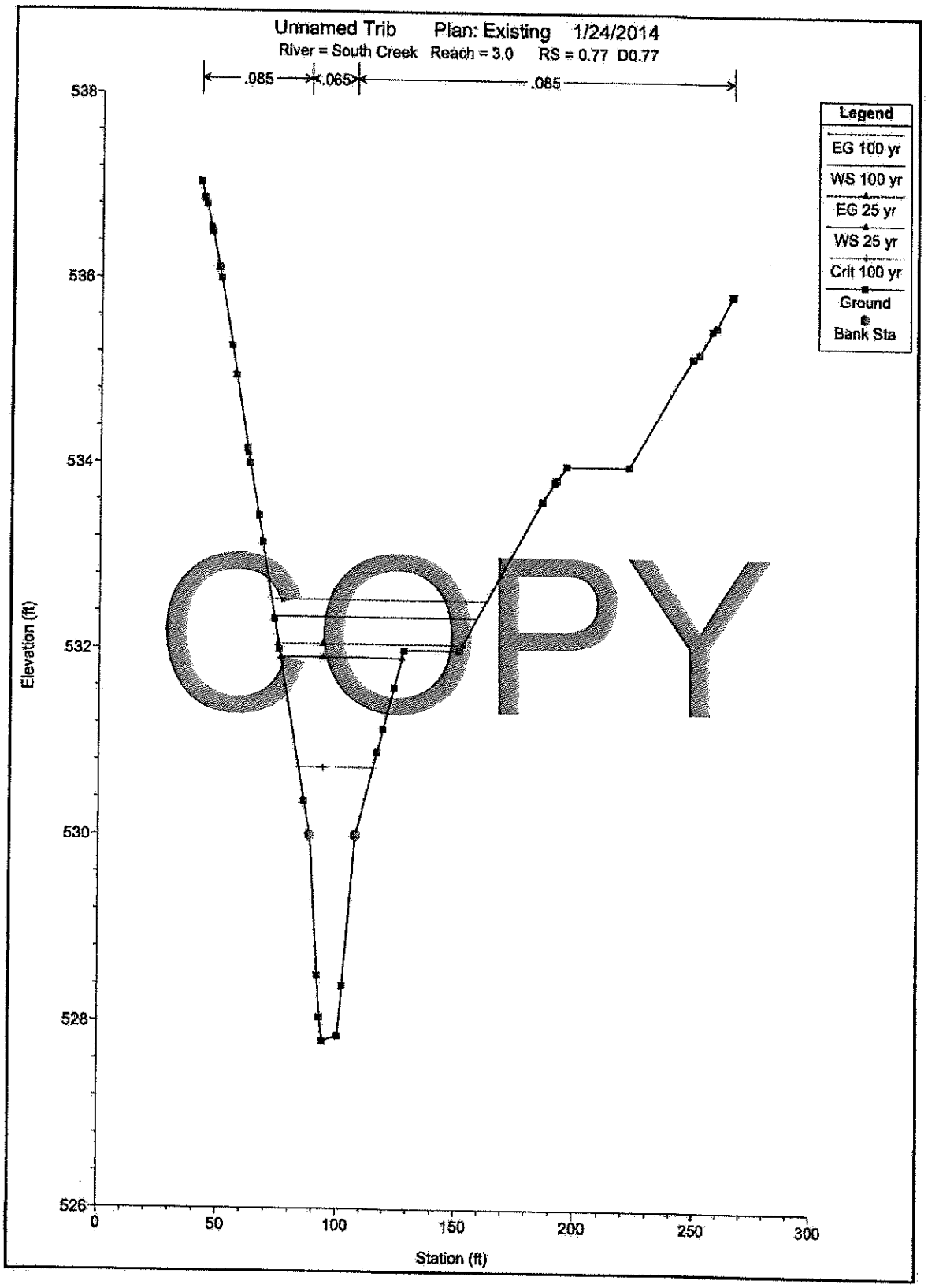

Unnamed Trib Plan: Existing 1/24/2014
River = North Creek Reach = 4.0 RS = 0.83 C0.83
.095
.065
.095
552
550
548
546
544
Elevation (ft)
0
100
200
300
400
500
Station (ft)
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta

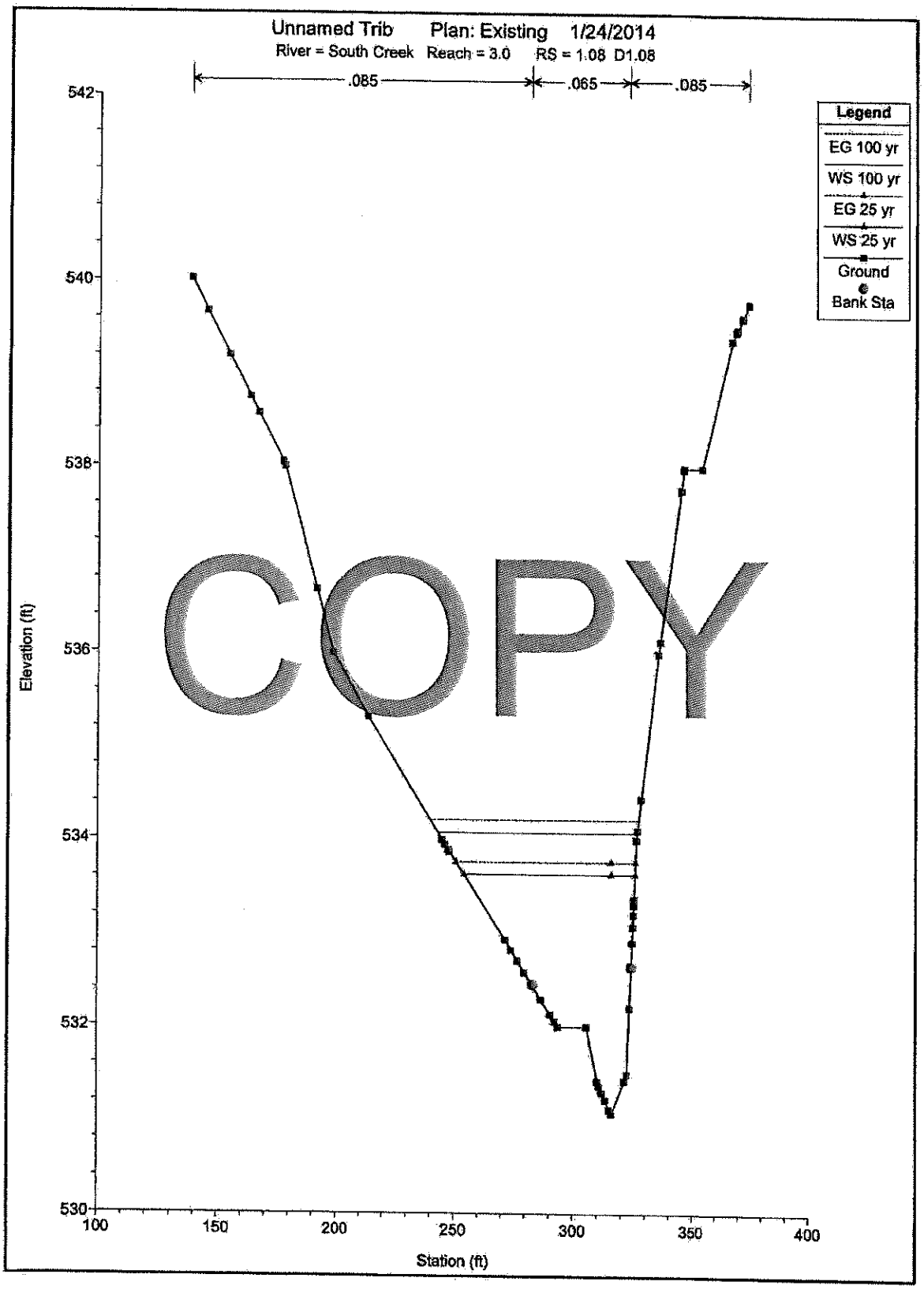

Unnamed Trib Plan: Existing 1/24/2014
River = North Creek Reach = 4.0 RS = 1.36, C1.36
.095
.065
.095
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
556
554
552
550
548
546
0
100
200
300
400
500
Station (ft)
COPY

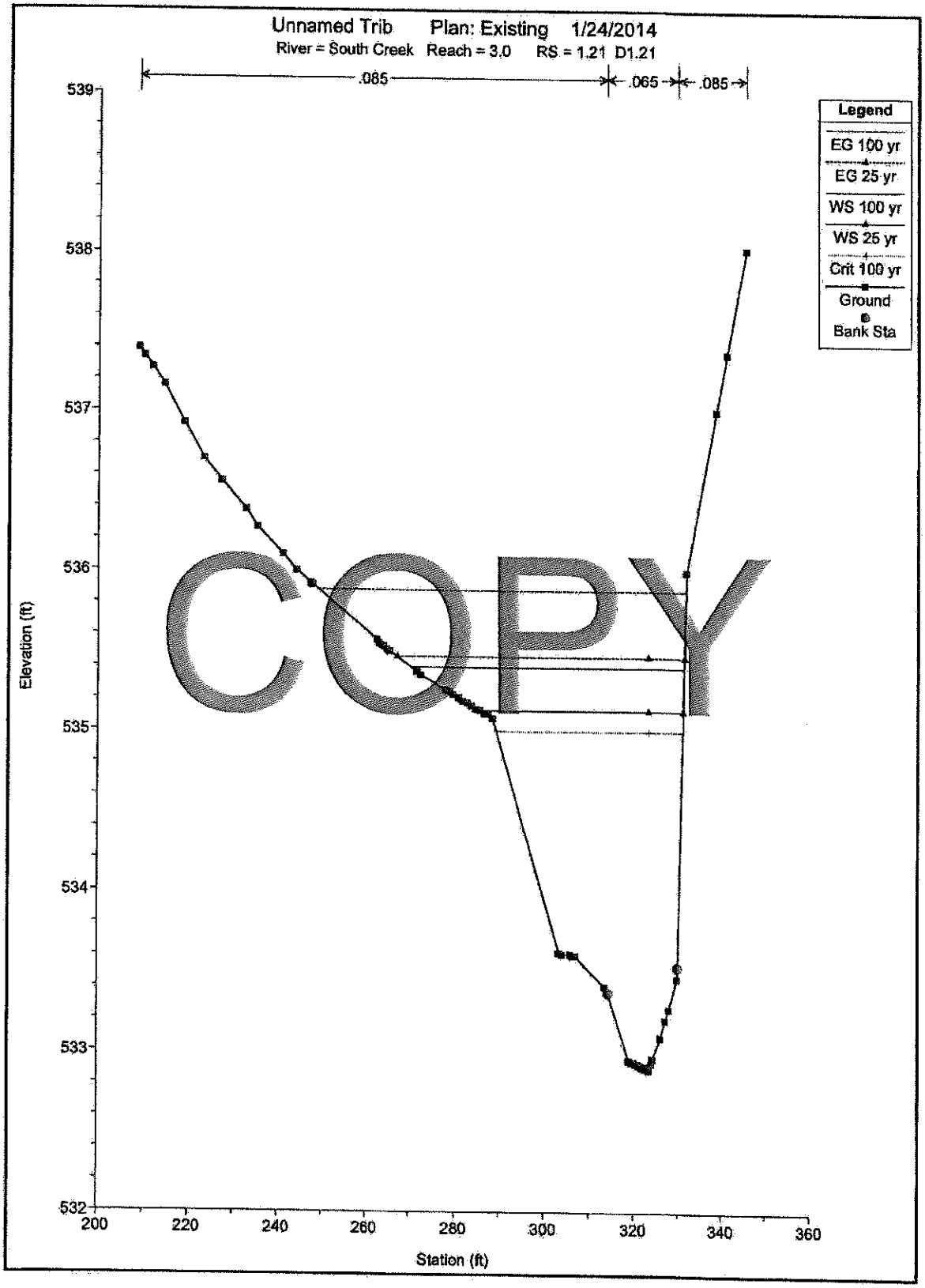

Unnamed Trib Plan: Existing 1/24/2014
River = North Creek Reach = 4.0 RS = 1.71 C1.71
.095
.065
.095
Legend
EG 100 yr
EG 25 yr
WS 100 yr
Crit 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
556
555
554
553
552
0
50
100
150
200
250
300
350
400
Station (ft)
COPY

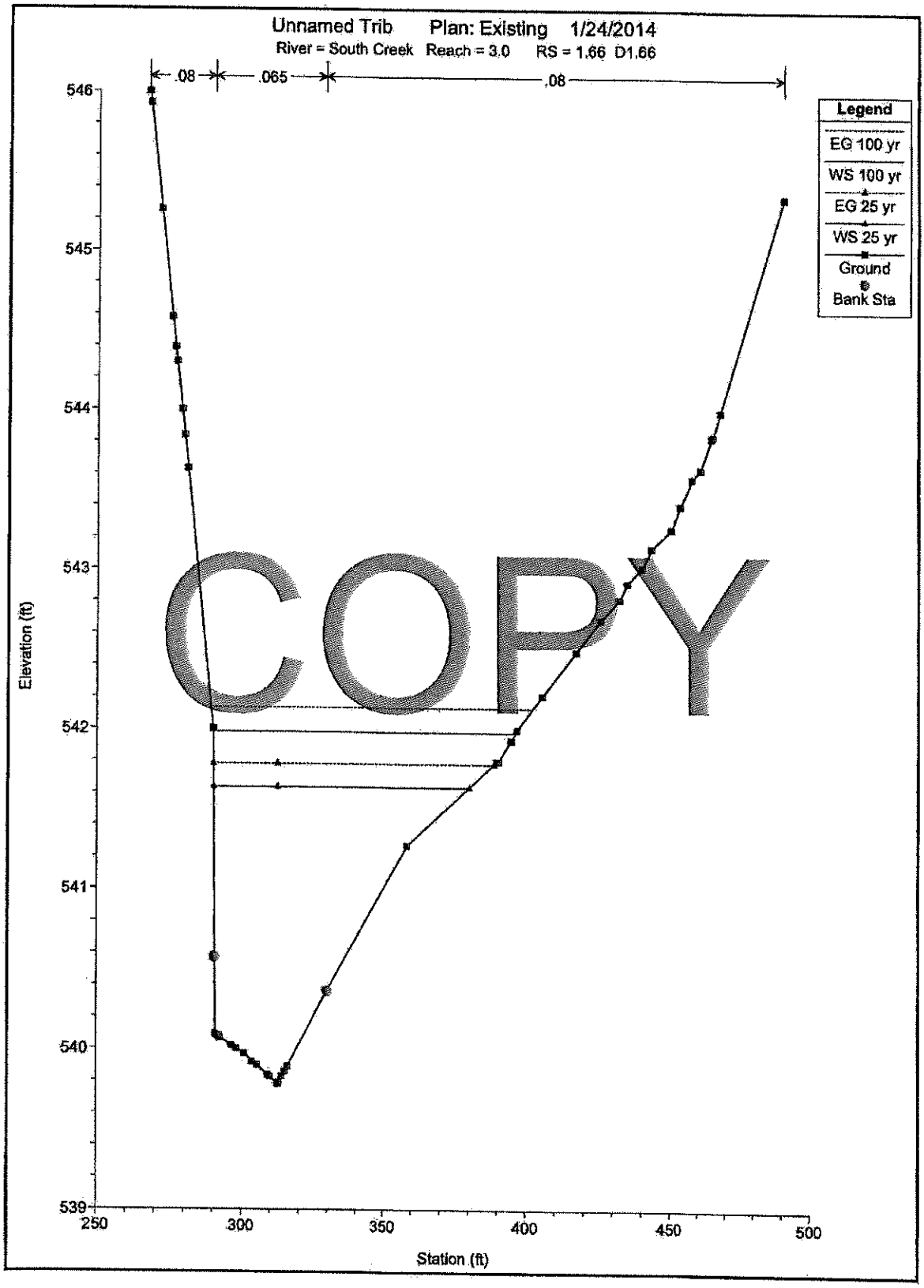

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 0.36 D0.36
.065
.045
.065
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
531
530
529
528
527
526
525
524
523
100
150
200
250
300
350
400
450
500

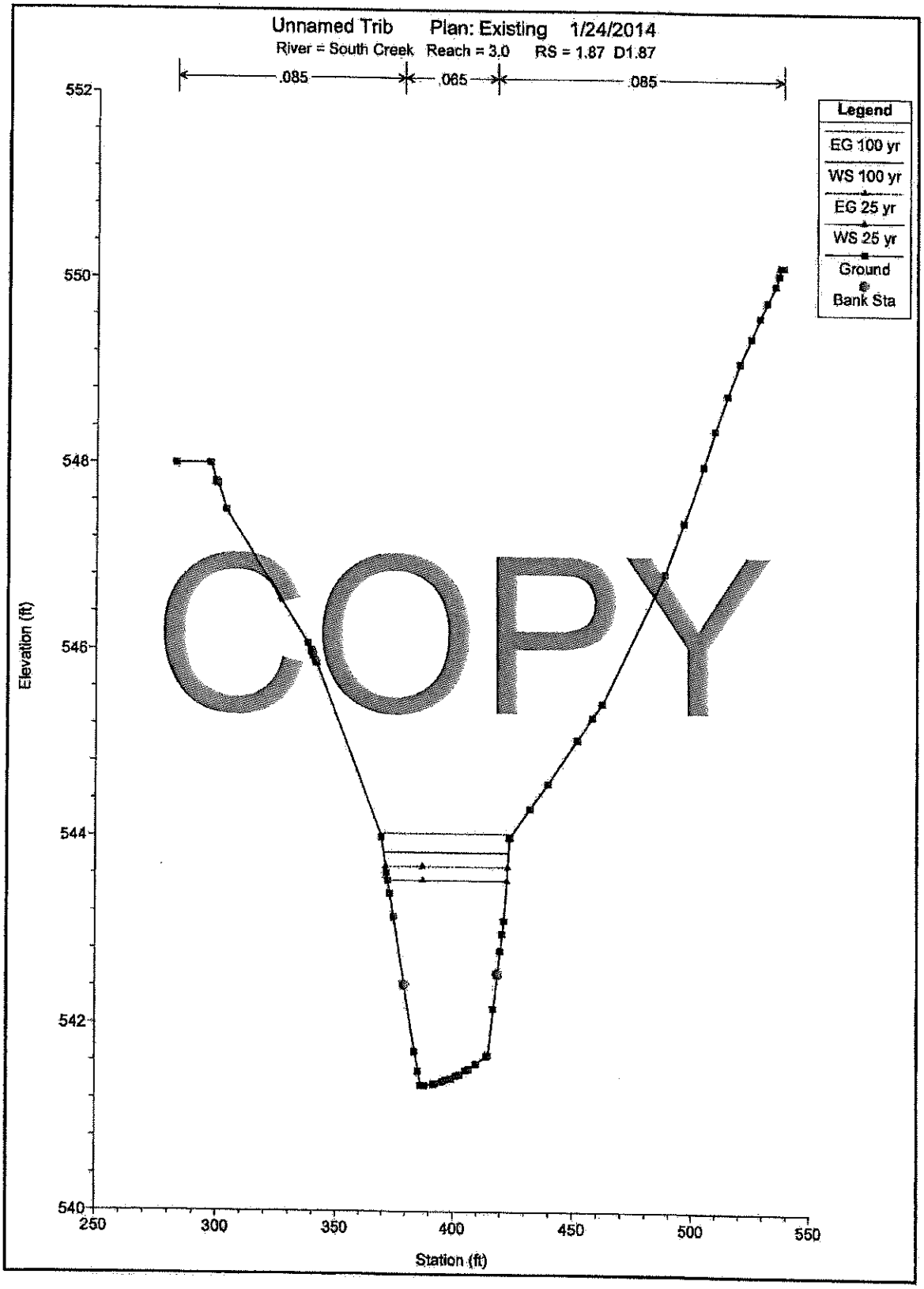

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 0.53 D0.53
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
Crit 100 yr
WS 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
532
531
530
529
528
180
200
220
240
260
280
300
320
340
360
Station (ft)

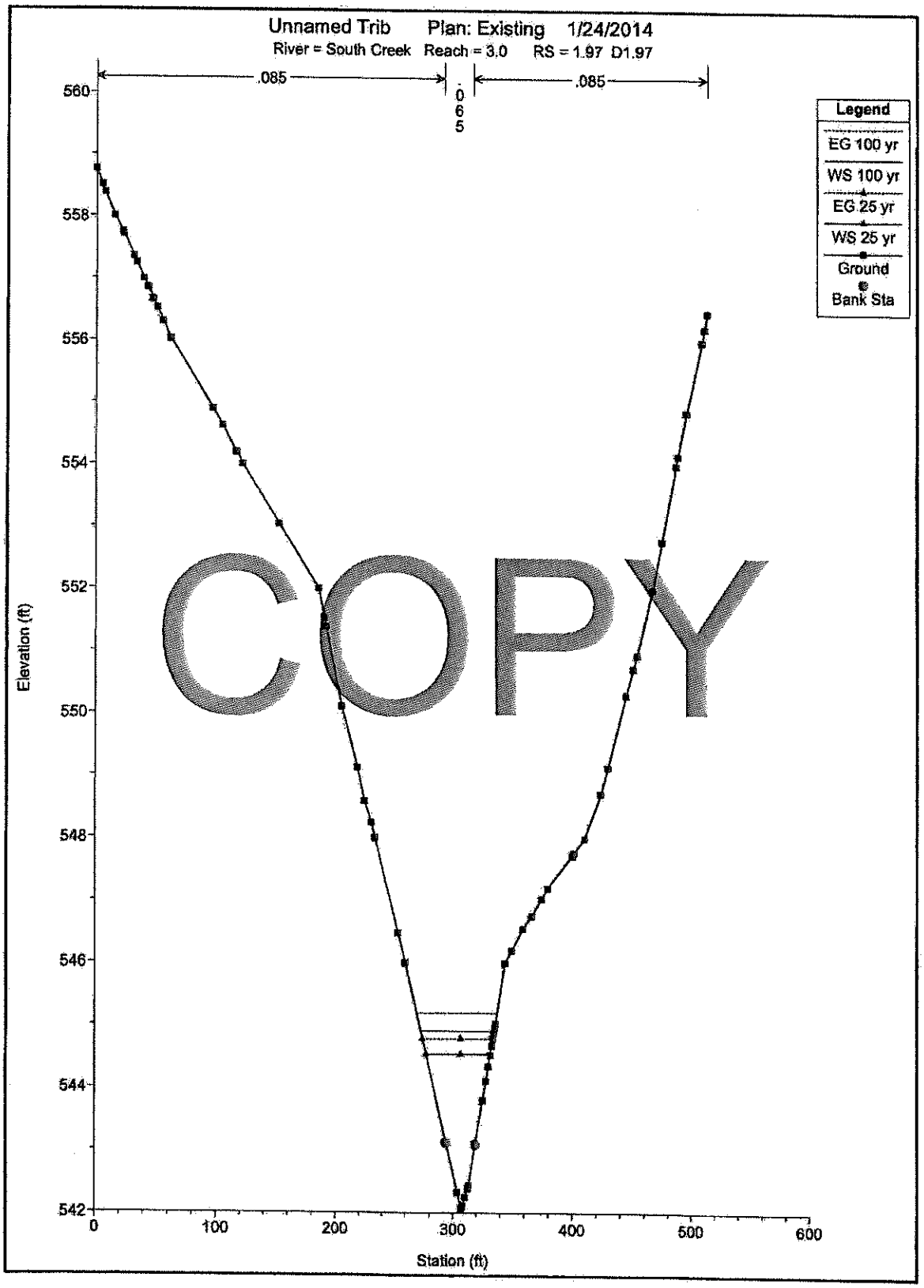

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 0.77 D0.77
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Ground
Bank Sta
538
536
534
532
530
528
526
Elevation (ft)
0
50
100
150
200
250
300
Station (ft)
COPY

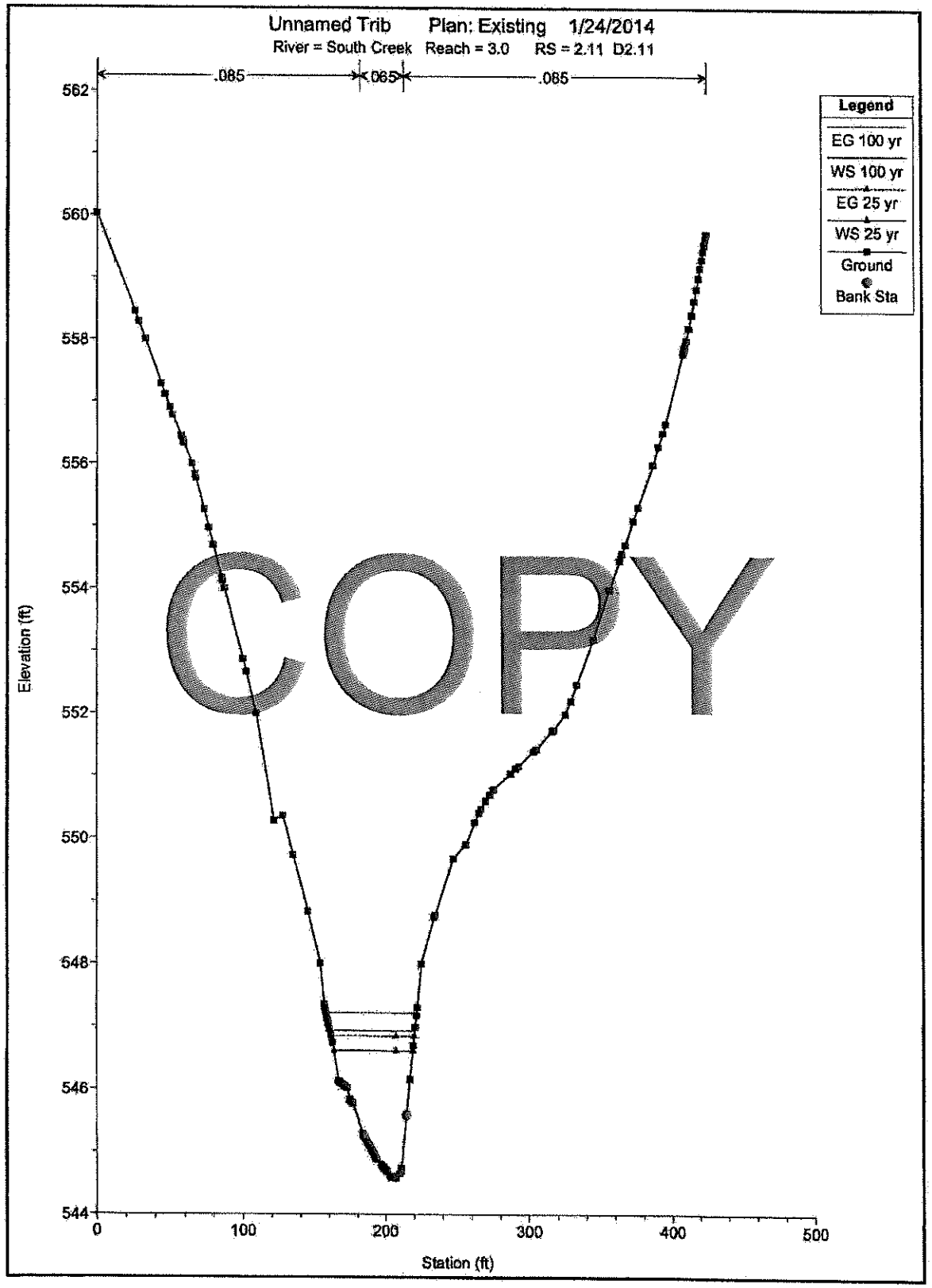

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 1.08 D1.08
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
542
540
538
536
534
532
530
Elevation (ft)
100
150
200
250
300
350
400
Station (ft)

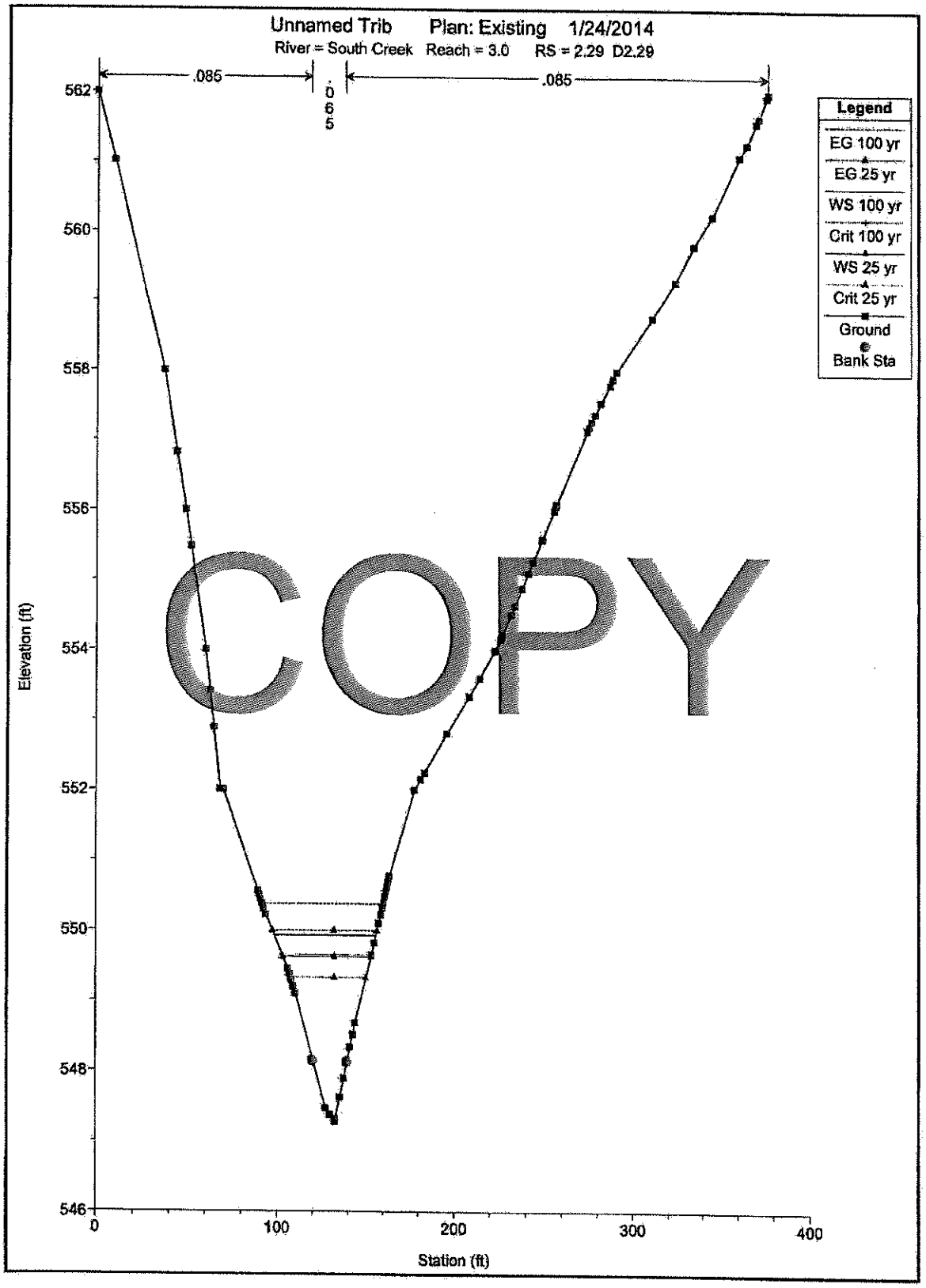

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 1.21 D1.21
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
WS 100 yr
WS 25 yr
Crit 100 yr
Ground
Bank Sta
539
538
537
536
535
534
533
532
Elevation (ft)
200
220
240
260
280
300
320
340
360
Station (ft)
COPY

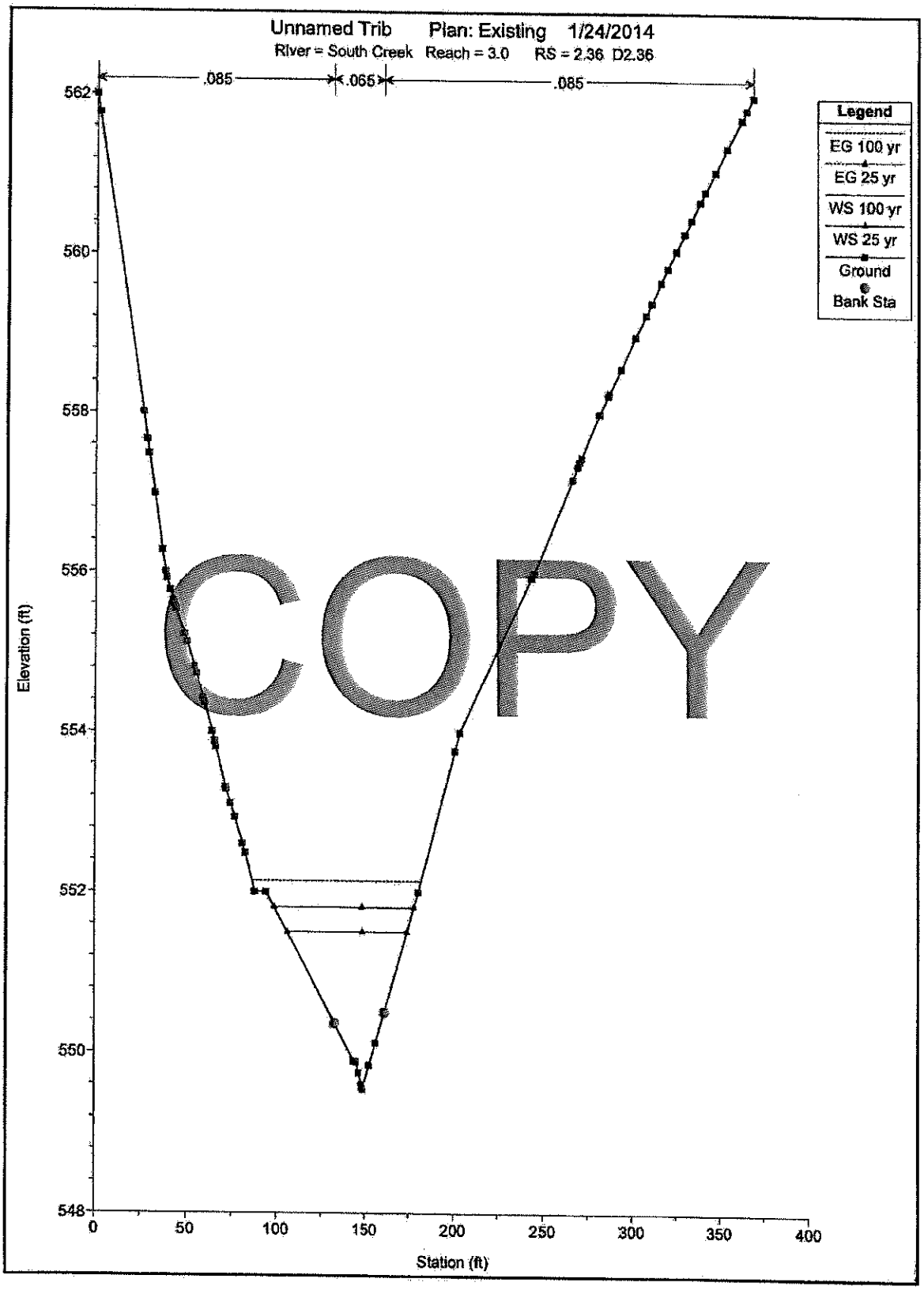

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 1.66 D1.66
.08
.065
.08
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
546
545
544
543
542
541
540
539
250
300
350
400
450
500
Station (ft)
COPY

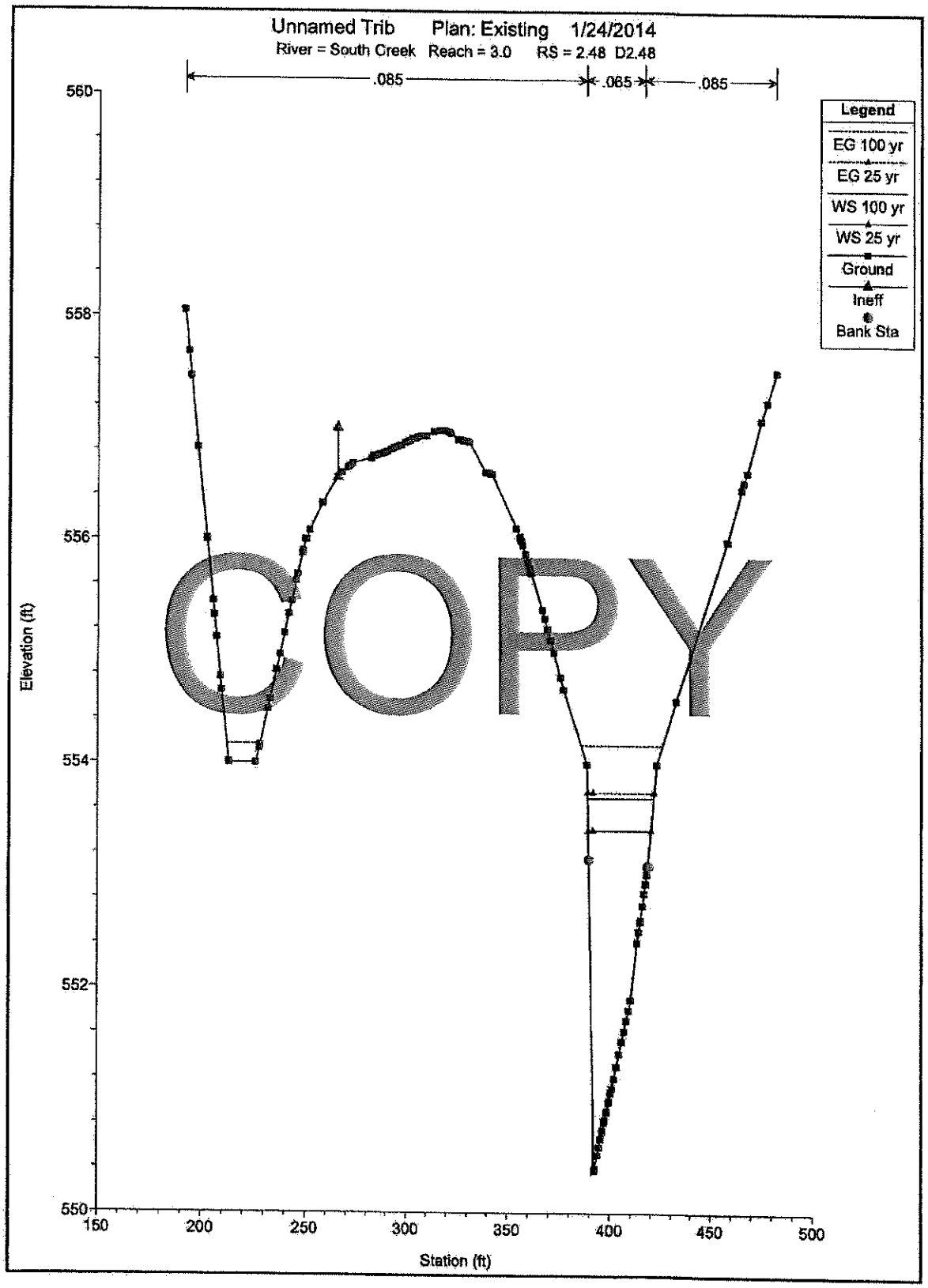

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 1.87 D1.87
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
552
550
548
546
544
542
540
Elevation (ft)
250
300
350
400
450
500
550
Station (ft)

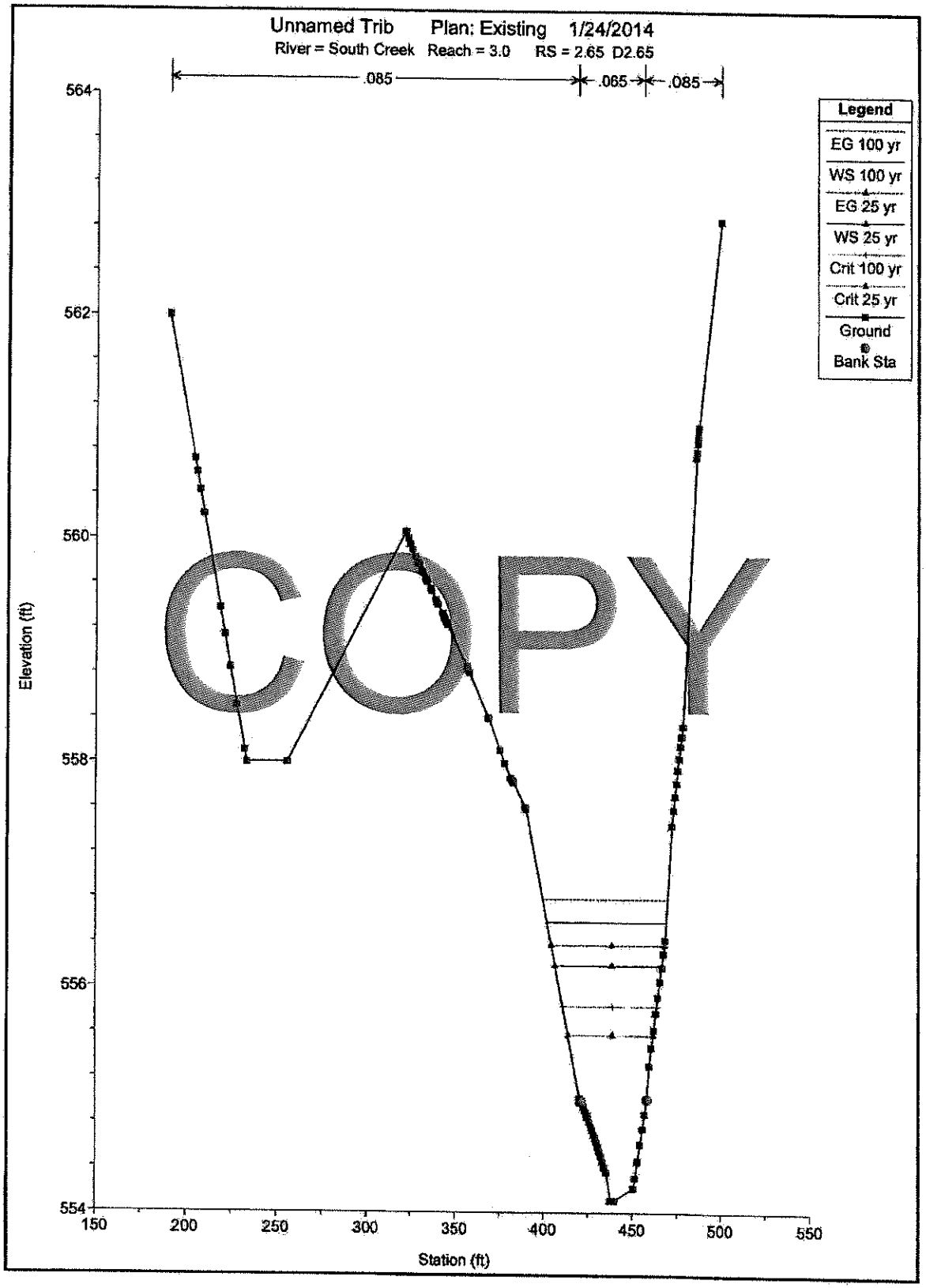

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 1.97 D1.97
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
560
558
556
554
552
550
548
546
544
542
0
100
200
300
400
500
600

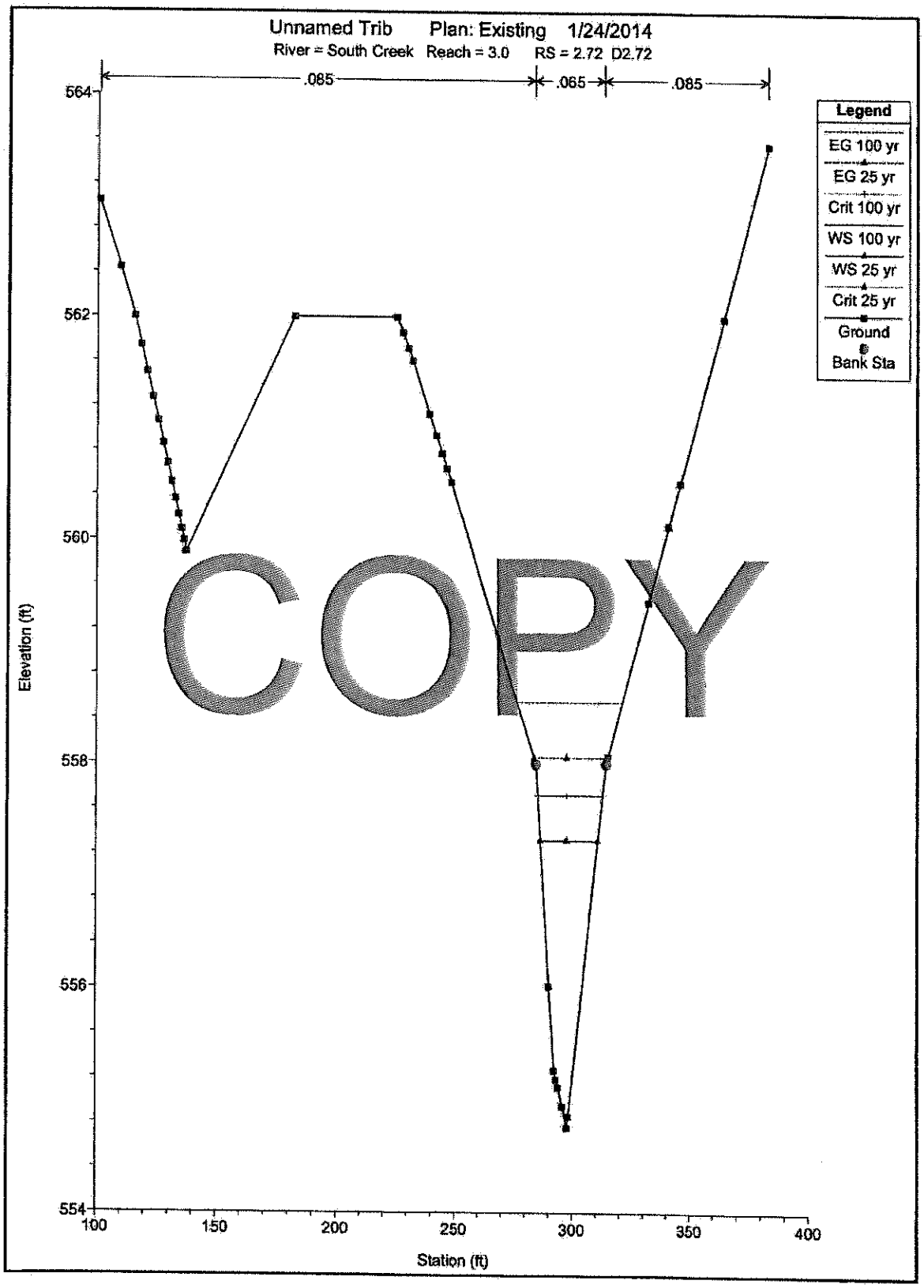

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 2.11 D2.11
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
562
560
558
556
554
552
550
548
546
544
0
100
200
300
400
500
Station (ft)

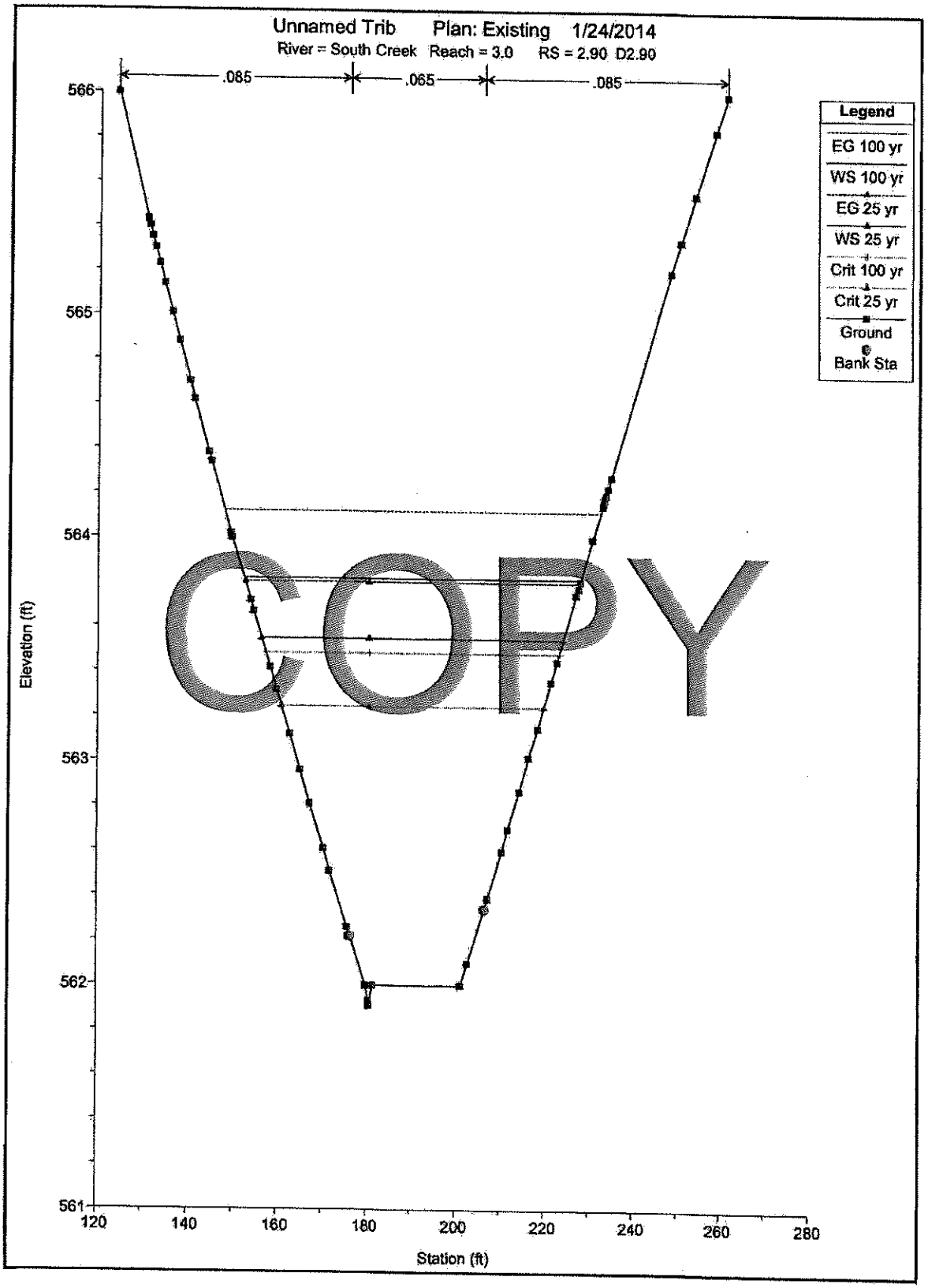

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 2.29 D2.29
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
WS 100 yr
Crit 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
562
560
558
556
554
552
550
548
546
0
100
200
300
400

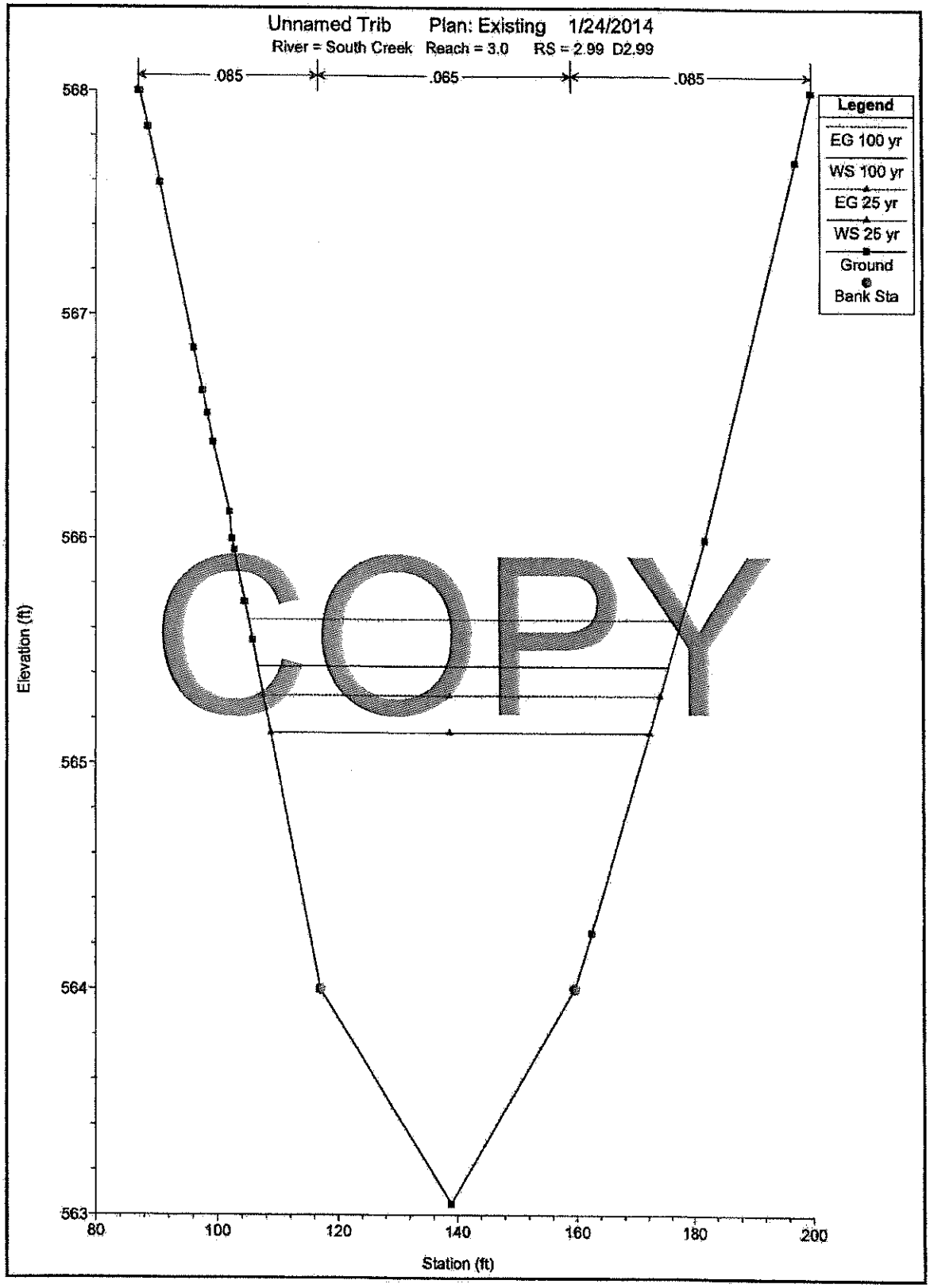

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 2.36 D2.36
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
WS 100 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
562
560
558
556
554
552
550
548
0
50
100
150
200
250
300
350
400

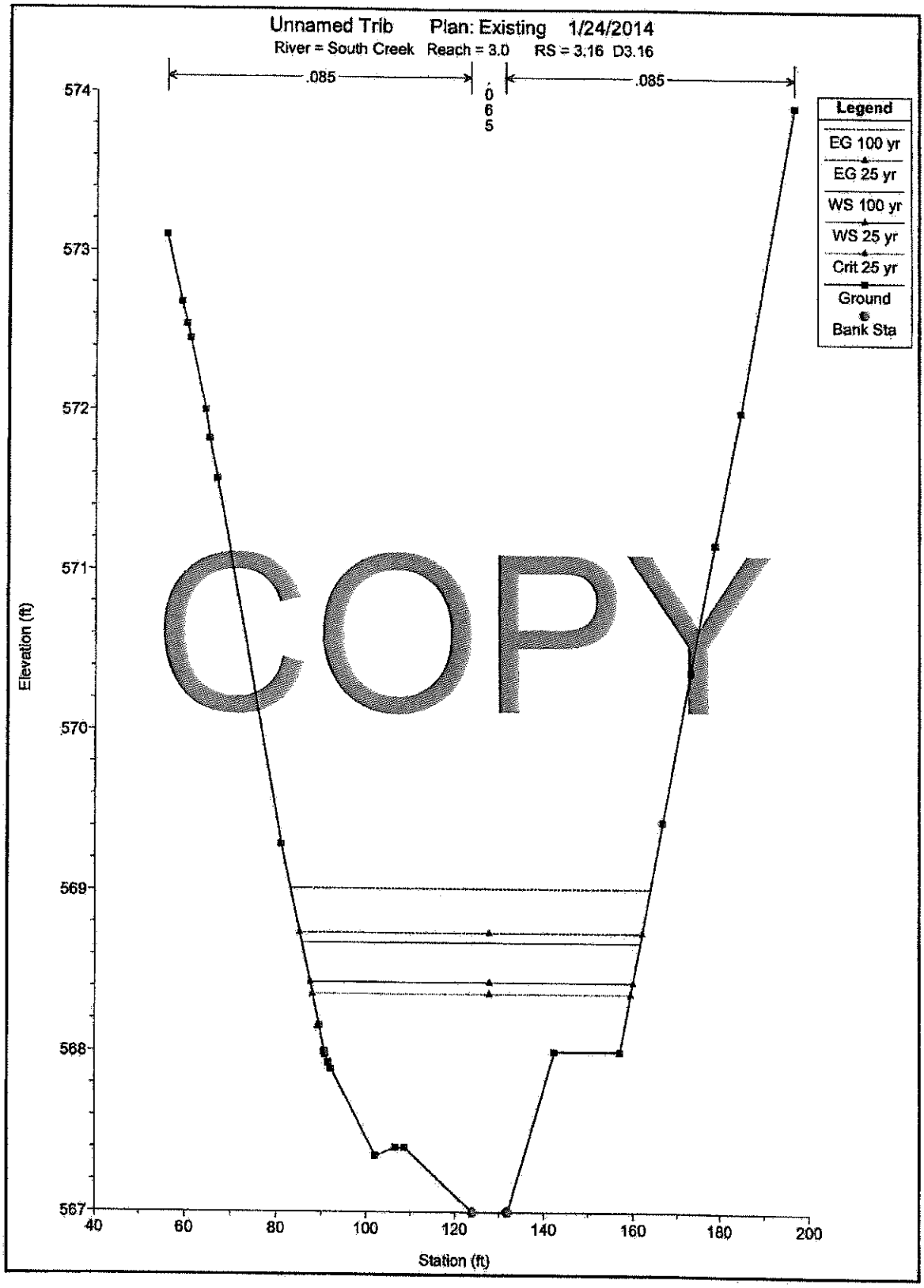

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 2.48 D2.48
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
WS 100 yr
WS 25 yr
Ground
Ineff
Bank Sta
560
558
556
554
552
550
Elevation (ft)
150
200
250
300
350
400
450
500
Station (ft)
COPY

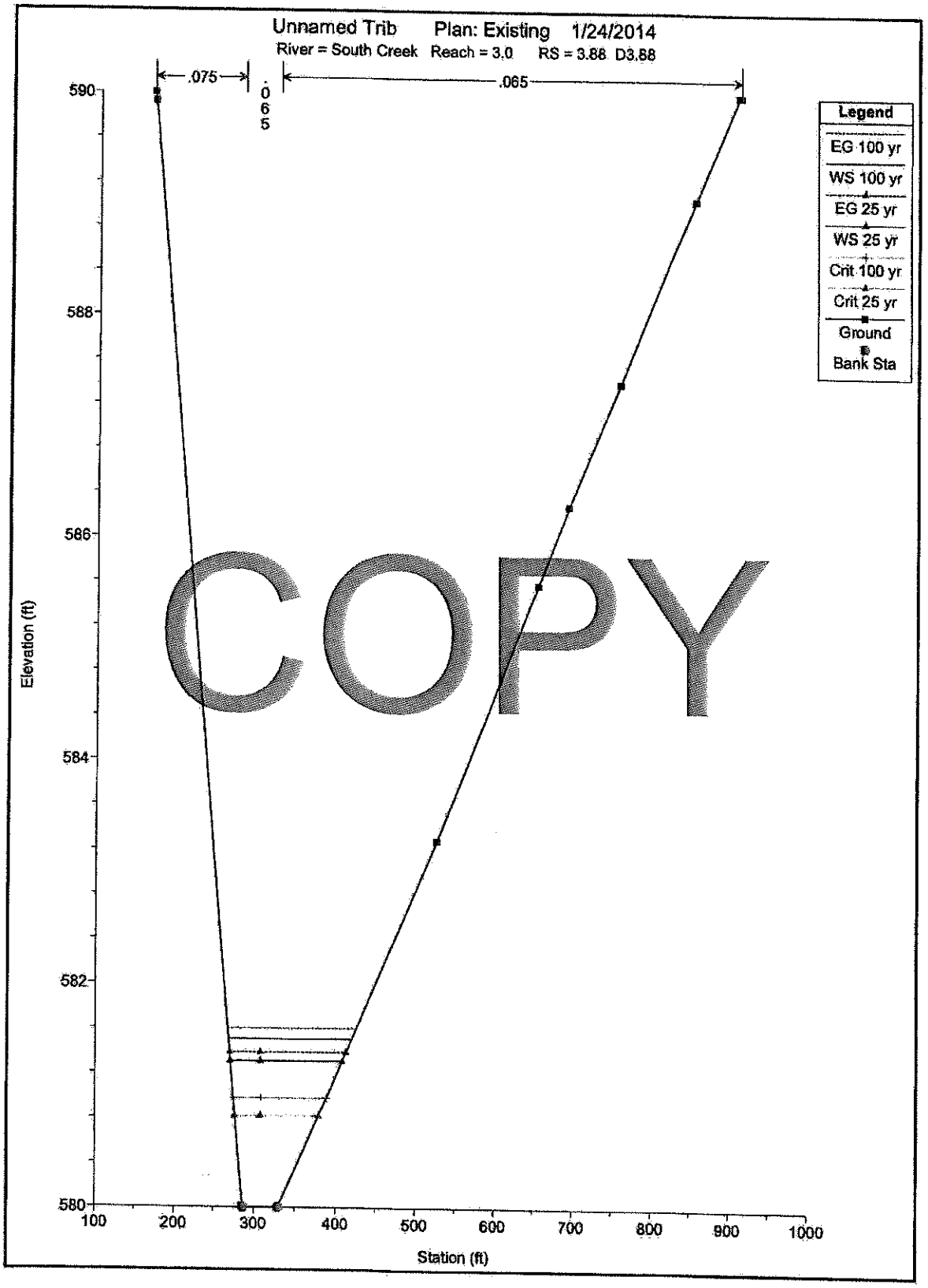

Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 2.65 D2.65
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
564
562
560
558
556
554
150
200
250
300
350
400
450
500
550
Station (ft)


Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 2.72 D2.72
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
Crit 100 yr
WS 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
564
562
560
558
556
554
Elevation (ft)
100
150
200
250
300
350
400
Station (ft)
COPY


Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 2.90 D2.90
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
566
565
564
563
562
561
Elevation (ft)
120
140
160
180
200
220
240
260
280
Station (ft)
COPY


Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 2.99 D2.99
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
568
567
566
565
564
563
Elevation (ft)
80
100
120
140
160
180
200
Station (ft)
COPY


Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 3.16 D3.16
.085
.085
065
Legend
EG 100 yr
EG 25 yr
WS 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
574
573
572
571
570
569
568
567
40
60
80
100
120
140
160
180
200
Station (ft)


Unnamed Trib Plan: Existing 1/24/2014
River = South Creek Reach = 3.0 RS = 3.88 D3.88
.075
.065
.065
590
588
586
584
582
580
Elevation (ft)
100
200
300
400
500
600
700
800
900
1000
Station (ft)
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta

130 ENVIRONMENTAL PARK

ATTACHMENT C2

APPENDIX C2-D

POST DEVELOPMENT CONDITION HEC-RAS ANALYSIS

Includes pages C2-D-1 through C2-D-79

6-25-14

STATE OF TEXAS
T. Traw
103797
LICENSED
PROFESSIONAL ENGINEER

Biggs & Mathews, Inc.
Firm Registration No. F-834

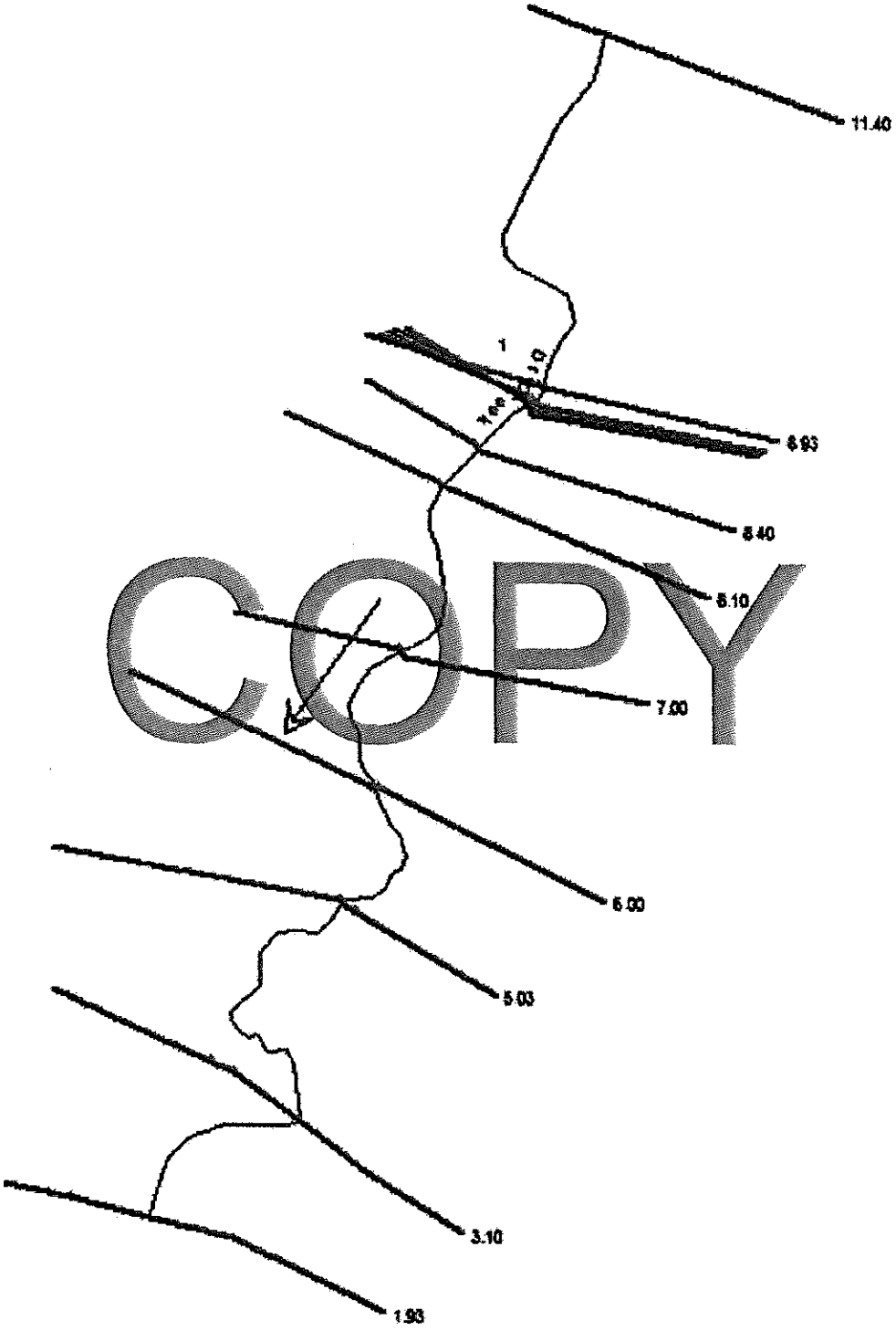
CONTENTS

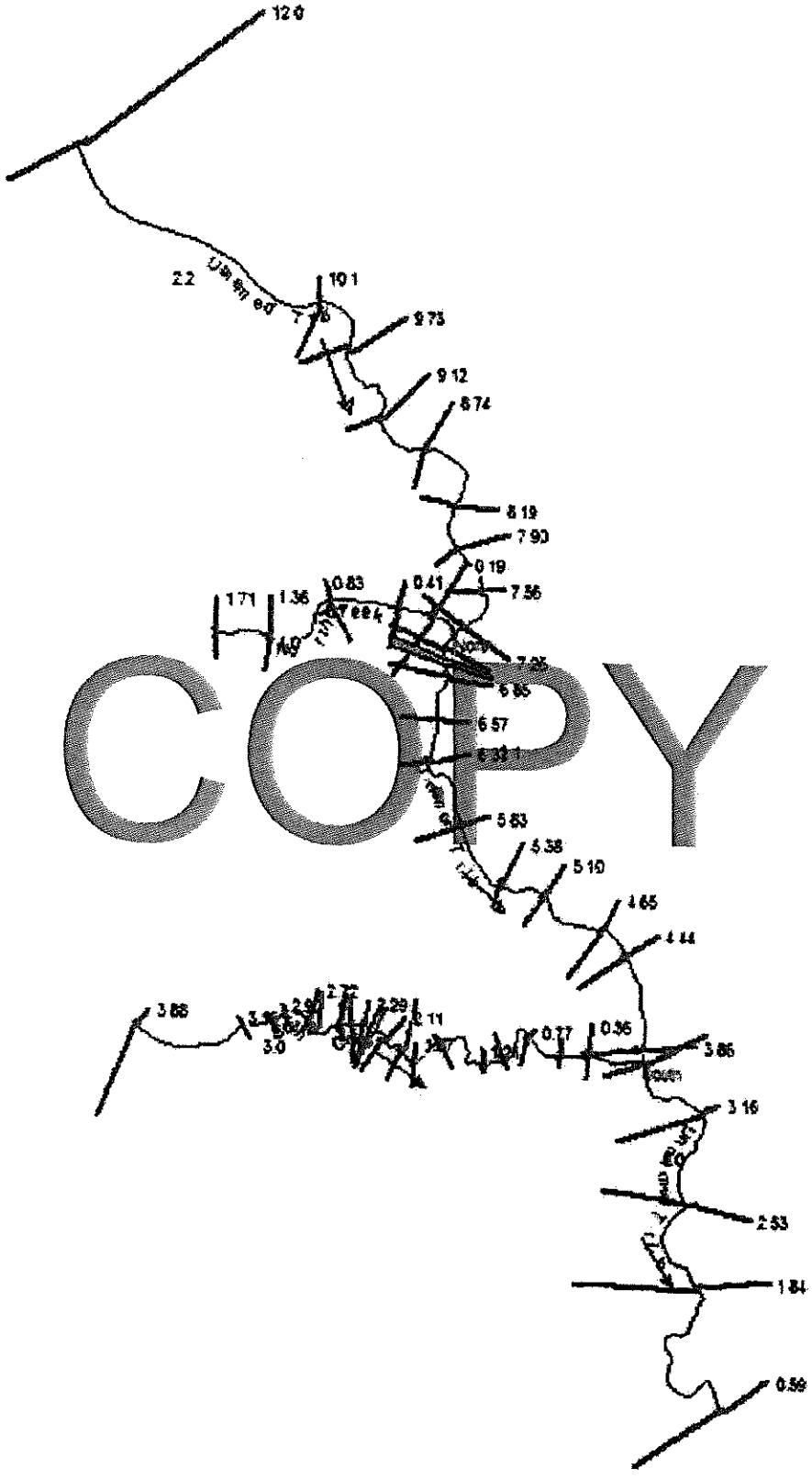
6-25-14

STATE OF TEXAS
T. Traw
103797
LICENSED
PROFESSIONAL ENGINEER

Biggs & Mathews, Inc.
Firm Registration No. F-834

POST DEVELOPED CONDITION HEC-RAS SCHEMATIC




12 0
2.2
10 1
9 73
9 12
8 74
8 19
7 90
0 19
7 56
1 71
1.36
0.83
0.41
7 68 4
7 25
6 85
6 57
5 83
5 38
5 10
4 65
4 44
3 88
3.0
0 11
0 17
0.36
3 85
3 16
2 53
1 84
0.59

POST DEVELOPED CONDITION HEC-RAS ANALYSIS

HEC-RAS Plan: Dry Creek River: Dry Creek Reach: 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
1	11.40	100 yr	5381.00	514.60	521.38	521.38	522.04	0.035746	8.80	1152.96	746.25	0.74
1	11.40	25 yr	3939.60	514.60	521.12	521.12	521.67	0.030491	7.80	957.88	725.27	0.67
1	8.93	100 yr	5381.00	506.00	519.14	513.23	519.15	0.000099	1.16	6021.98	1361.27	0.06
1	8.93	25 yr	3939.60	506.00	517.64	512.74	517.66	0.000147	1.29	4130.43	1171.05	0.07
1	8.84	100 yr	5381.00	506.00	519.13	514.07	519.14	0.000127	1.19	5885.99	1323.34	0.07
1	8.84	25 yr	3939.60	506.00	517.63	513.53	517.64	0.000178	1.27	4094.37	1088.03	0.08
1	8.81			Culvert								
1	8.79	100 yr	5381.00	505.89	519.07		519.09	0.000217	1.66	5951.36	1321.31	0.09
1	8.79	25 yr	3939.60	505.89	517.61		517.63	0.000278	1.70	4190.24	1101.00	0.10
1	8.40	100 yr	5381.00	505.09	519.00		519.01	0.000194	1.65	6714.24	1606.63	0.08
1	8.40	25 yr	3939.60	505.09	517.50		517.52	0.000283	1.82	4497.98	1348.86	0.10
1	8.10	100 yr	5381.00	504.56	518.96		518.97	0.000090	1.17	9148.12	1799.46	0.06
1	8.10	25 yr	3939.60	504.56	517.46		517.47	0.000114	1.21	6638.62	1561.55	0.06
1	7.00	100 yr	7266.00	502.00	518.92		518.92	0.000028	0.73	14286.76	1609.42	0.03
1	7.00	25 yr	5326.50	502.00	517.42		517.42	0.000025	0.65	11952.51	1499.68	0.03
1	6.00	100 yr	7266.00	502.00	518.91		518.91	0.000012	0.72	20236.27	2123.98	0.03
1	6.00	25 yr	5326.50	502.00	517.41		517.41	0.000009	0.60	17241.55	1843.82	0.03
1	5.03	100 yr	7266.00	500.00	518.90		518.91	0.000007	0.49	23576.79	2115.32	0.02
1	5.03	25 yr	5326.50	500.00	517.40		517.40	0.000006	0.41	20489.25	1987.57	0.02
1	3.10	100 yr	7266.00	498.12	518.90		518.90	0.000001	0.28	32791.92	2343.33	0.01
1	3.10	25 yr	5326.50	498.12	517.40		517.40	0.000001	0.23	29346.24	2239.22	0.01
1	1.93	100 yr	7266.00	497.59	518.90	499.05	518.90	0.000001	0.27	32373.33	2207.92	0.01
1	1.93	25 yr	5326.50	497.59	517.40	498.83	517.40	0.000001	0.22	29172.10	1995.17	0.01

HEC-RAS Plan: Post

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Unnamed Trib	2.2	12.0	100 yr	1933.40	555.00	559.02	558.97	560.08	0.017260	8.24	234.61	106.59	0.98
Unnamed Trib	2.2	12.0	25 yr	1410.50	555.00	558.52	558.47	559.43	0.017537	7.66	184.20	94.56	0.97
Unnamed Trib	2.2	10.1	100 yr	1933.40	546.00	550.74		550.93	0.002164	4.06	724.48	403.55	0.35
Unnamed Trib	2.2	10.1	25 yr	1410.50	546.00	550.30		550.47	0.002101	3.73	553.95	375.28	0.33
Unnamed Trib	2.2	9.73	100 yr	1933.40	544.26	548.63		549.05	0.014005	6.36	514.76	305.47	0.59
Unnamed Trib	2.2	9.73	25 yr	1410.50	544.26	548.18	547.76	548.59	0.015072	6.04	383.86	274.34	0.60
Unnamed Trib	2.2	9.12	100 yr	1933.40	539.18	546.15		546.26	0.002352	3.46	1015.24	539.49	0.26
Unnamed Trib	2.2	9.12	25 yr	1410.50	539.18	545.68		545.79	0.002290	3.23	773.61	494.43	0.25
Unnamed Trib	2.2	8.74	100 yr	1933.40	538.94	545.01		545.19	0.003892	3.99	869.22	440.60	0.32
Unnamed Trib	2.2	8.74	25 yr	1410.50	538.94	544.46		544.59	0.004963	4.12	619.19	382.26	0.36
Unnamed Trib	2.2	8.19	100 yr	1933.40	536.67	543.91		544.00	0.001528	3.13	962.94	370.88	0.22
Unnamed Trib	2.2	8.19	25 yr	1410.50	536.67	543.22		543.31	0.001497	2.87	730.56	305.52	0.21
Unnamed Trib	2.2	7.90	100 yr	1933.40	535.72	543.38		543.44	0.002820	4.07	807.29	323.94	0.28
Unnamed Trib	2.2	7.90	25 yr	1410.50	535.72	542.62		542.73	0.002981	3.89	601.06	262.38	0.28
Unnamed Trib	2.2	7.56	100 yr	1933.40	535.18	542.37		542.49	0.003072	4.51	819.95	345.27	0.30
Unnamed Trib	2.2	7.56	25 yr	1410.50	535.18	541.48		541.62	0.003932	4.65	550.53	252.48	0.34
Unnamed Trib	2.2	7.26	100 yr	1933.40	533.95	541.28		541.53	0.003850	4.95	589.59	181.08	0.34
Unnamed Trib	2.2	7.26	25 yr	1410.50	533.95	540.28		540.50	0.003964	4.50	434.53	136.51	0.34
Unnamed Trib	2.1	7.03	100 yr	2909.00	532.47	539.98	537.90	540.39	0.005958	6.27	643.17	154.65	0.42
Unnamed Trib	2.1	7.03	25 yr	2121.10	532.47	538.76	537.26	539.18	0.007597	6.20	465.47	136.51	0.46
Unnamed Trib	2.1	6.95		Culvert									
Unnamed Trib	2.1	6.85	100 yr	2909.00	531.33	539.70		539.81	0.001584	3.67	1263.13	333.68	0.23
Unnamed Trib	2.1	6.85	25 yr	2121.10	531.33	538.82		538.91	0.001469	3.27	993.00	270.86	0.21
Unnamed Trib	2.1	6.57	100 yr	2909.00	530.49	538.99		539.21	0.002606	4.31	975.43	269.30	0.28
Unnamed Trib	2.1	6.57	25 yr	2121.10	530.49	538.18		538.37	0.002394	3.81	770.17	237.98	0.27
Unnamed Trib	2.1	6.33	100 yr	2909.00	530.55	537.97		538.31	0.005338	5.87	810.94	256.11	0.40
Unnamed Trib	2.1	6.33	25 yr	2121.10	530.55	537.22		537.52	0.005142	5.32	630.93	223.40	0.38

HEC-RAS Plan: Post (Continued)

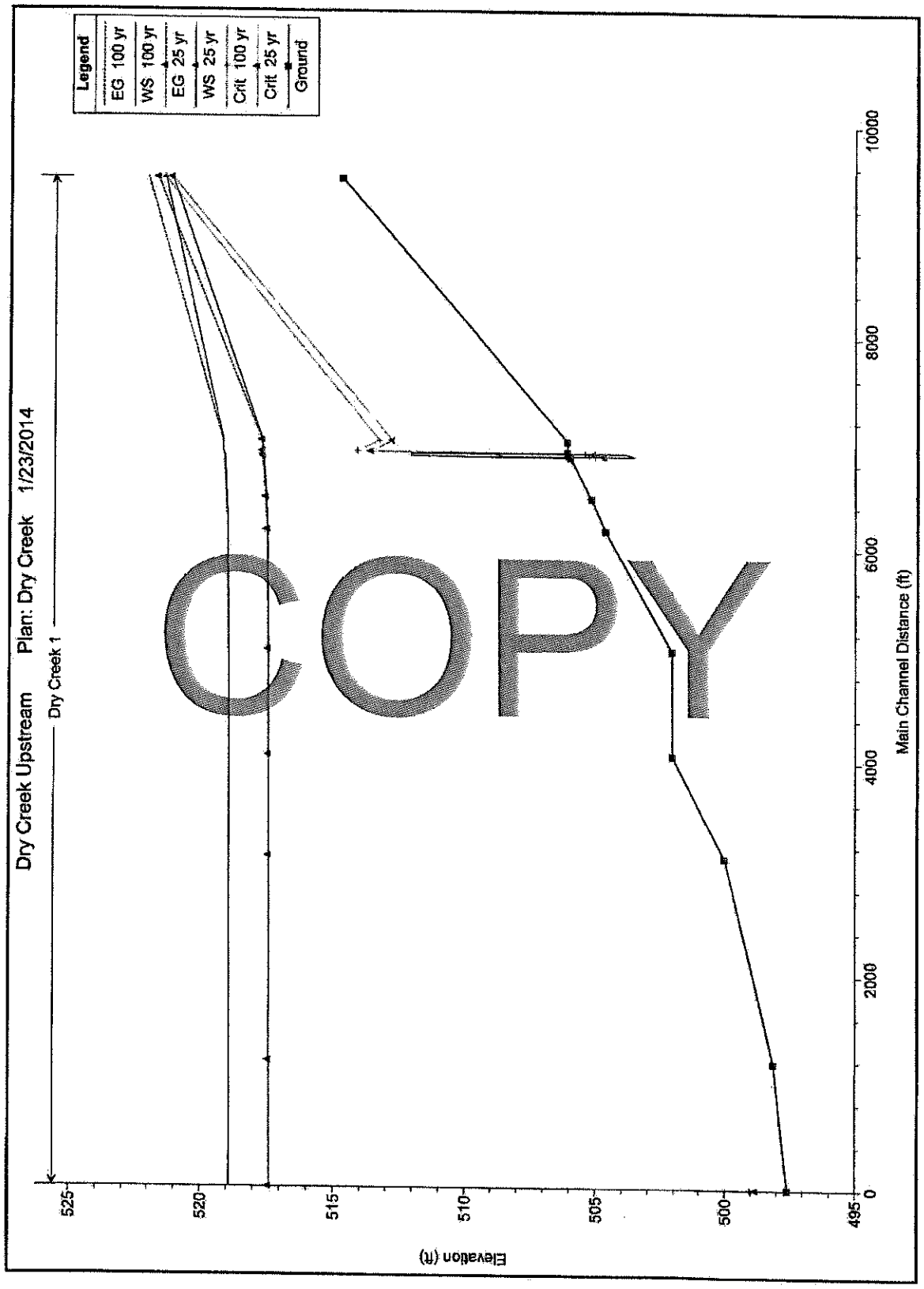
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Unnamed Trib	2.1	5.83	100 yr	2909.00	527.28	535.23		535.55	0.006706	6.61	778.38	255.77	0.44
Unnamed Trib	2.1	5.83	25 yr	2121.10	527.28	534.52		534.81	0.006653	6.03	606.87	226.01	0.43
Unnamed Trib	2.1	5.38	100 yr	2909.00	525.29	532.81		533.07	0.004352	5.28	928.22	296.77	0.36
Unnamed Trib	2.1	5.38	25 yr	2121.10	525.29	532.11		532.36	0.004287	4.87	728.07	281.29	0.35
Unnamed Trib	2.1	5.10	100 yr	2909.00	523.57	531.49		531.77	0.004970	5.40	898.20	300.24	0.38
Unnamed Trib	2.1	5.10	25 yr	2121.10	523.57	530.91		531.14	0.004437	4.78	728.57	277.21	0.35
Unnamed Trib	2.1	4.65	100 yr	2909.00	521.27	528.96		529.27	0.006902	6.62	945.35	431.63	0.45
Unnamed Trib	2.1	4.65	25 yr	2121.10	521.27	528.43		528.75	0.007019	6.32	722.83	408.90	0.45
Unnamed Trib	2.1	4.44	100 yr	2909.00	520.53	527.51		527.83	0.006265	5.89	1014.85	414.31	0.42
Unnamed Trib	2.1	4.44	25 yr	2121.10	520.53	527.09		527.29	0.006138	5.49	805.60	388.88	0.41
Unnamed Trib	2.1	3.86	100 yr	2909.00	518.57	525.15		525.29	0.003261	4.03	1273.81	520.54	0.30
Unnamed Trib	2.1	3.86	25 yr	2121.10	518.57	524.50		524.63	0.003602	3.89	948.95	464.47	0.31
Unnamed Trib	2.0	3.70	100 yr	3803.20	516.79	524.08		524.53	0.006320	6.17	954.64	320.47	0.43
Unnamed Trib	2.0	3.70	25 yr	2761.00	516.79	523.67		523.97	0.004516	4.99	829.37	291.38	0.36
Unnamed Trib	2.0	3.16	100 yr	3803.20	512.97	519.33		519.93	0.012649	7.29	777.75	311.74	0.58
Unnamed Trib	2.0	3.16	25 yr	2761.00	512.97	518.05	518.05	519.04	0.027319	8.72	427.46	236.43	0.82
Unnamed Trib	2.0	2.53	100 yr	3803.20	509.18	518.96		519.00	0.000452	2.00	2839.41	644.07	0.12
Unnamed Trib	2.0	2.53	25 yr	2761.00	509.18	517.45	512.67	517.50	0.000634	2.08	1920.37	557.15	0.14
Unnamed Trib	2.0	1.84	100 yr	3803.20	504.96	518.92		518.93	0.000044	0.81	6751.34	1032.04	0.04
Unnamed Trib	2.0	1.84	25 yr	2761.00	504.96	517.42		517.43	0.000043	0.74	5320.43	867.03	0.04
Unnamed Trib	2.0	0.59	100 yr	3803.20	498.13	518.90	506.55	518.90	0.000018	0.66	9689.92	938.57	0.03
Unnamed Trib	2.0	0.59	25 yr	2761.00	498.13	517.40	505.59	517.40	0.000015	0.56	8288.81	903.26	0.02
South Creek	3.0	3.88	100 yr	337.20	580.00	581.50	580.97	581.60	0.009393	2.91	147.14	151.88	0.42
South Creek	3.0	3.88	25 yr	245.40	580.00	581.30	580.82	581.38	0.009017	2.59	118.17	137.48	0.40
South Creek	3.0	3.16	100 yr	337.20	567.00	568.68		569.01	0.041991	6.61	81.58	76.01	0.90
South Creek	3.0	3.16	25 yr	245.40	567.00	568.43	568.36	568.74	0.046629	6.26	63.25	72.50	0.92
South Creek	3.0	2.99	100 yr	337.20	563.05	565.43		565.64	0.011699	3.80	100.18	68.96	0.48
South Creek	3.0	2.99	25 yr	245.40	563.05	565.14		565.30	0.011393	3.35	80.62	63.56	0.47

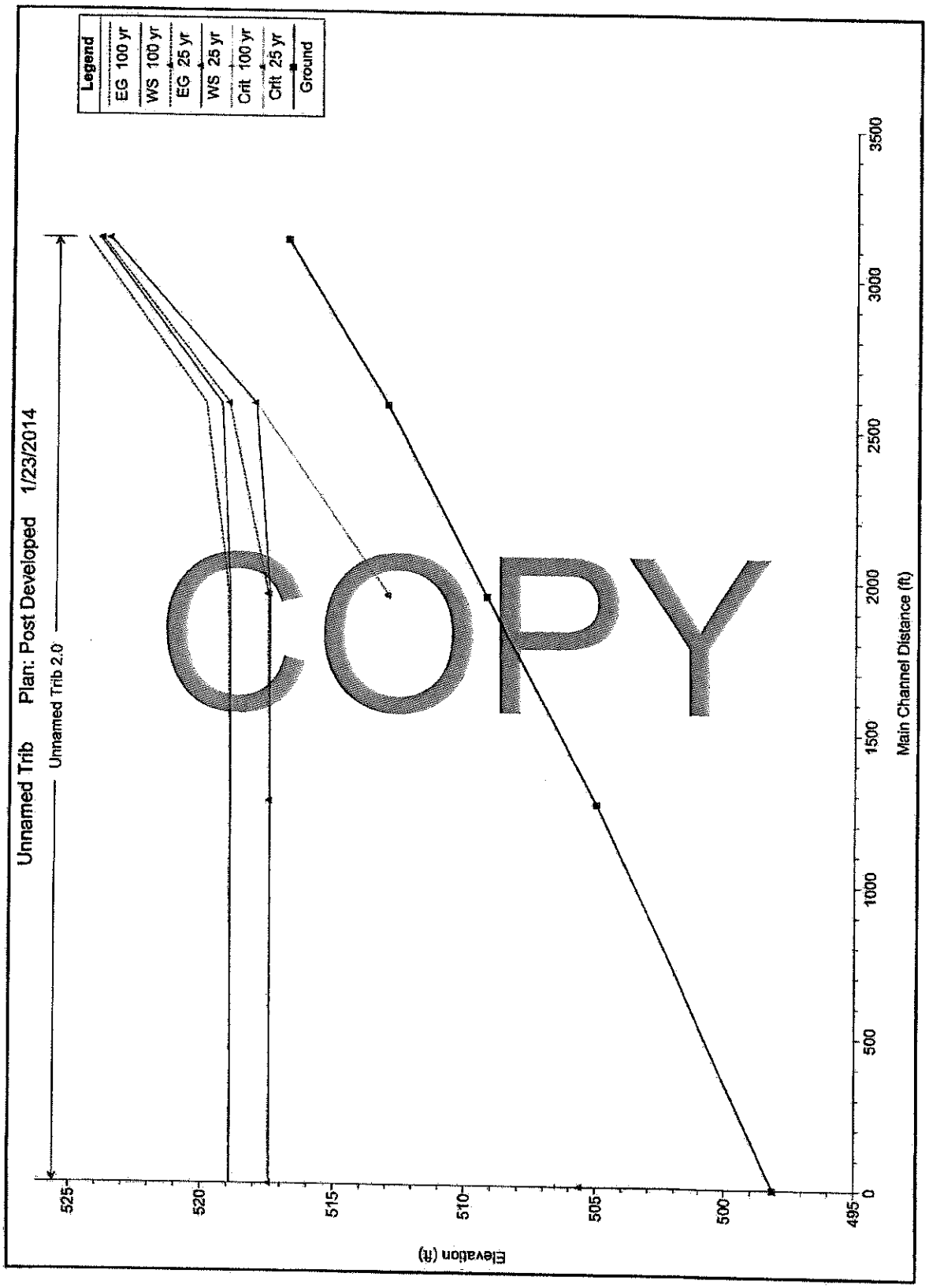
HEC-RAS Plan: Post (Continued)

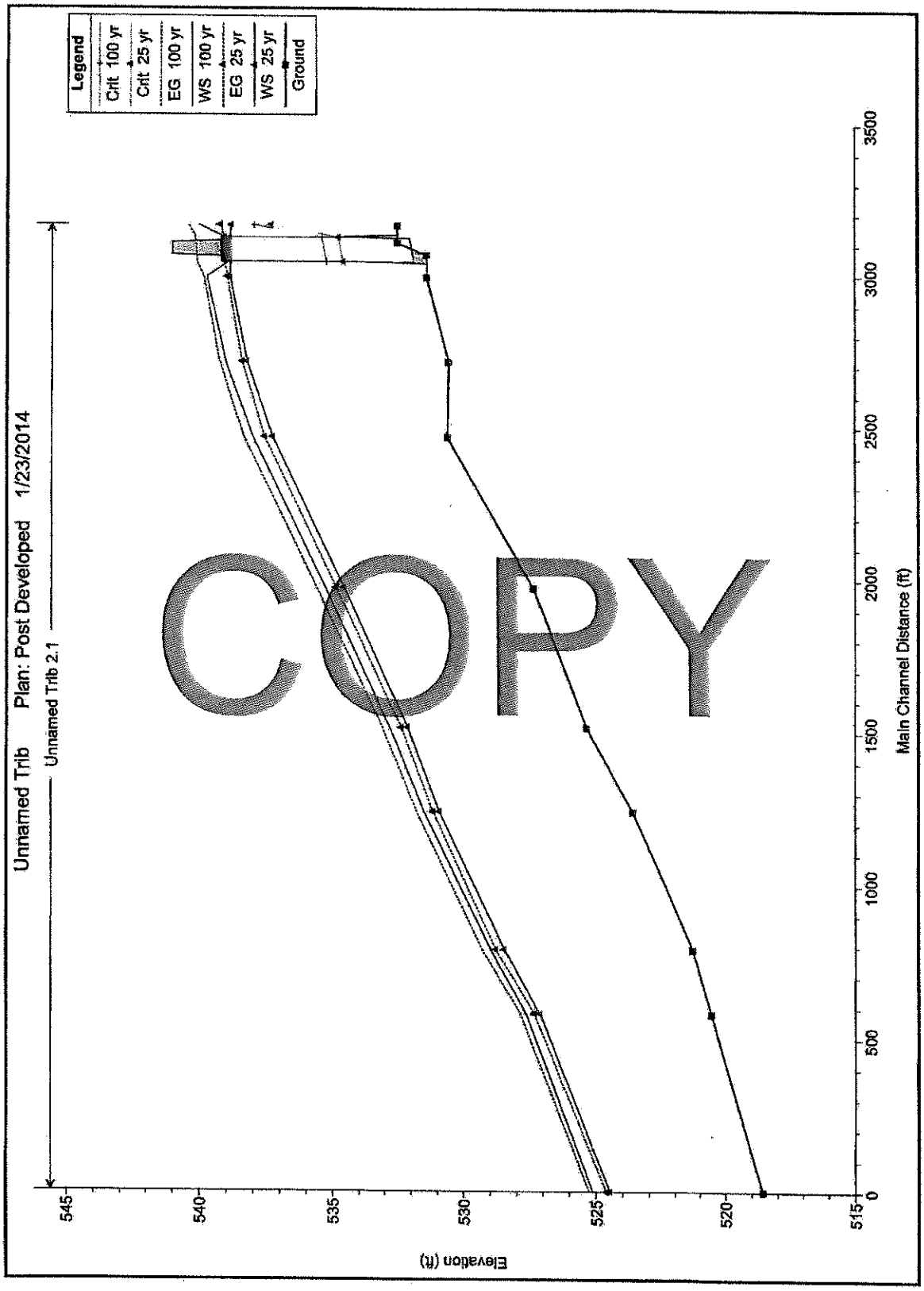
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
South Creek	3.0	2.90	100 yr	337.20	561.91	563.82	563.49	564.12	0.021098	4.87	89.04	75.84	0.64
South Creek	3.0	2.90	25 yr	245.40	561.91	563.55	563.25	563.80	0.021263	4.38	69.69	67.86	0.63
South Creek	3.0	2.72	100 yr	337.20	554.76	557.72	557.72	558.56	0.053866	7.33	46.02	27.63	1.00
South Creek	3.0	2.72	25 yr	245.40	554.76	557.32	557.32	558.06	0.057553	6.91	35.49	24.44	1.01
South Creek	3.0	2.65	100 yr	337.20	554.11	556.58	555.84	556.79	0.010276	3.82	102.57	67.06	0.46
South Creek	3.0	2.65	25 yr	245.40	554.11	556.20	555.58	556.38	0.011561	3.54	77.74	60.08	0.47
South Creek	3.0	2.48	100 yr	337.20	550.38	553.70	553.21	554.17	0.022866	5.50	62.16	32.46	0.67
South Creek	3.0	2.48	25 yr	245.40	550.38	553.42		553.76	0.019565	4.63	53.31	30.86	0.60
South Creek	3.0	2.36	100 yr	337.20	549.54	551.79		552.13	0.024247	5.21	85.17	78.46	0.69
South Creek	3.0	2.36	25 yr	245.40	549.54	551.48		551.80	0.027819	4.91	62.63	67.30	0.71
South Creek	3.0	2.29	100 yr	337.20	547.28	551.32	549.64	551.40	0.002845	2.89	179.34	91.07	0.27
South Creek	3.0	2.29	25 yr	245.40	547.28	550.43	549.42	550.55	0.005165	3.24	108.27	69.95	0.34
South Creek	3.0	2.23		Culvert									
South Creek	3.0	2.11	100 yr	337.20	544.58	546.93		547.21	0.015195	4.55	88.86	59.80	0.56
South Creek	3.0	2.11	25 yr	245.40	544.58	546.61		546.84	0.015274	4.08	70.49	55.72	0.54
South Creek	3.0	1.97	100 yr	337.20	542.05	544.91		545.20	0.013285	4.67	92.31	62.12	0.53
South Creek	3.0	1.97	25 yr	245.40	542.05	544.54		544.79	0.013833	4.26	70.69	54.42	0.53
South Creek	3.0	1.87	100 yr	337.20	541.35	543.84		544.04	0.008963	3.69	97.66	52.87	0.43
South Creek	3.0	1.87	25 yr	245.40	541.35	543.54		543.69	0.007836	3.13	82.32	50.23	0.40
South Creek	3.0	1.66	100 yr	337.20	539.78	541.98		542.13	0.009260	3.45	126.21	106.48	0.43
South Creek	3.0	1.66	25 yr	245.40	539.78	541.63		541.78	0.010783	3.27	91.87	90.12	0.45
South Creek	3.0	1.21	100 yr	337.20	532.89	535.40	535.00	535.88	0.026395	6.46	76.22	60.92	0.75
South Creek	3.0	1.21	25 yr	245.40	532.89	535.13		535.46	0.021136	5.32	61.79	45.30	0.66
South Creek	3.0	1.08	100 yr	337.20	531.07	534.07		534.21	0.006541	3.17	127.35	83.73	0.37
South Creek	3.0	1.08	25 yr	245.40	531.07	533.63		533.76	0.007917	3.01	92.81	71.80	0.39
South Creek	3.0	0.77	100 yr	337.20	527.80	532.35	530.73	532.54	0.004760	3.76	128.92	85.76	0.34
South Creek	3.0	0.77	25 yr	245.40	527.80	531.92		532.06	0.004169	3.24	96.09	51.42	0.31

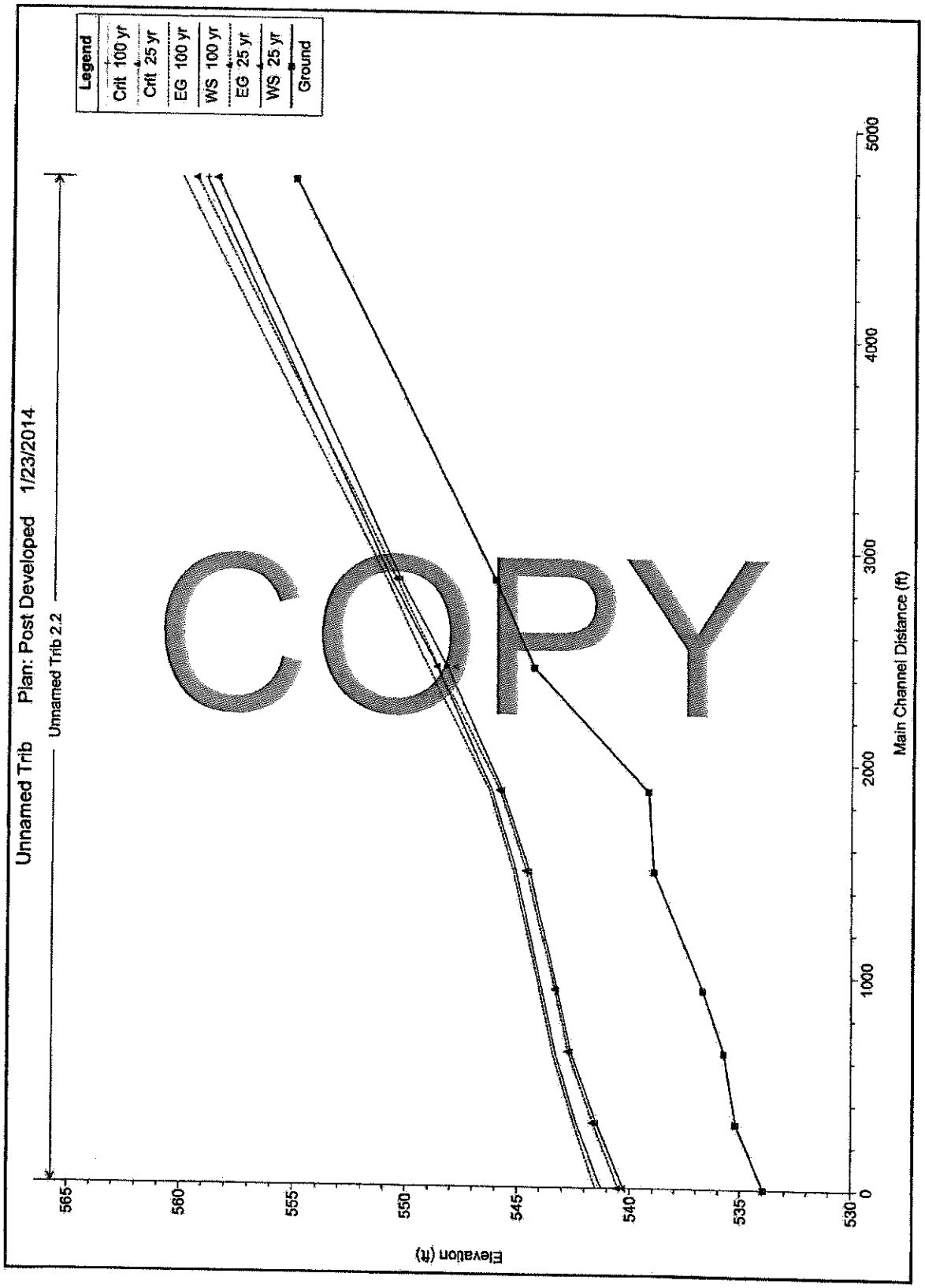
HEC-RAS Plan: Post (Continued)

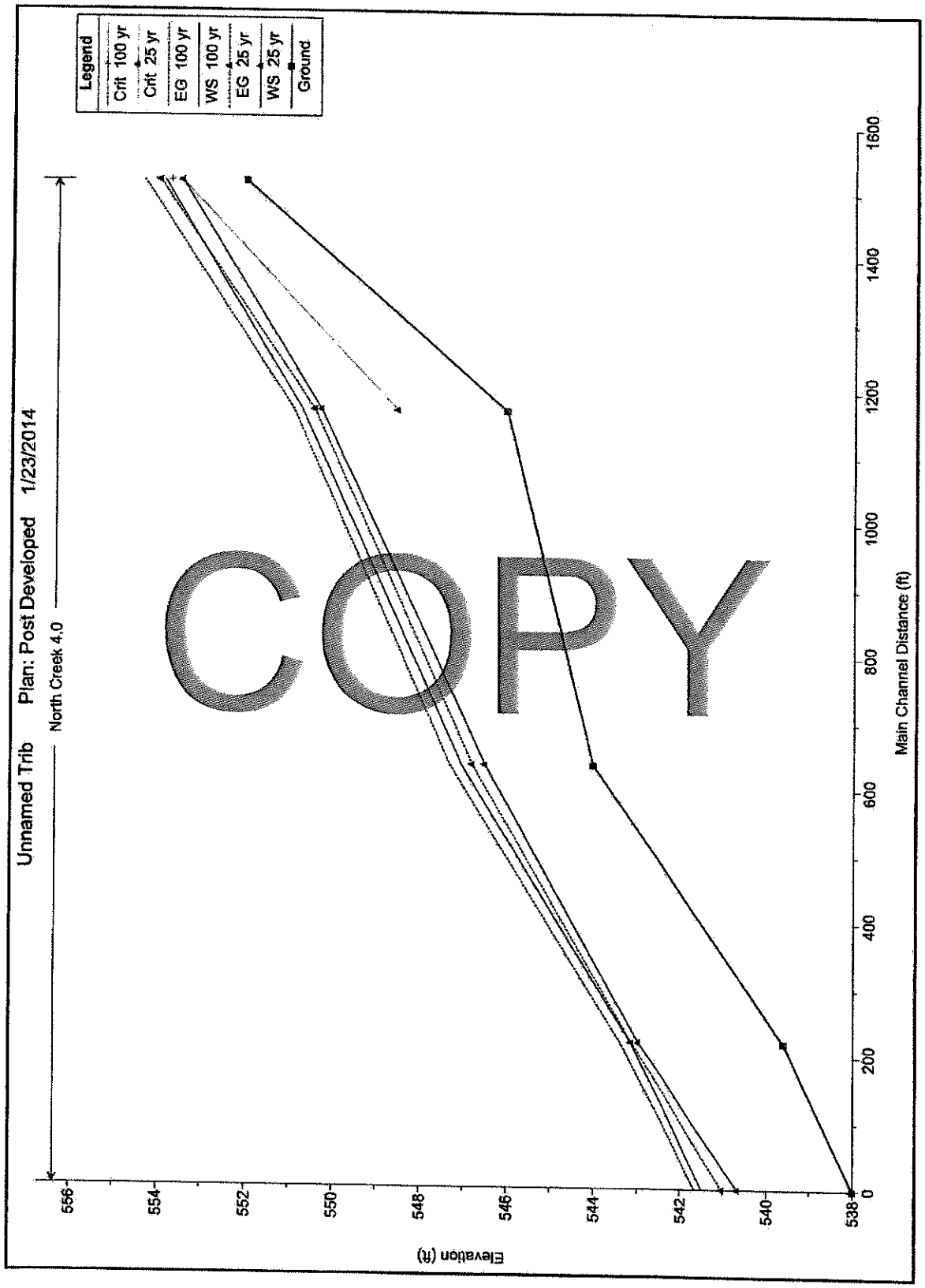
River	Reach	River Sta.	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (fps)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
South Creek	3.0	0.53	100 yr	337.20	528.00	529.45	529.45	529.87	0.050737	5.85	75.03	91.66	0.94
South Creek	3.0	0.53	25 yr	245.40	528.00	529.27	529.27	529.63	0.051032	5.28	59.36	85.93	0.91
South Creek	3.0	0.36	100 yr	337.20	523.75	526.28	524.84	526.31	0.000734	1.60	307.97	206.65	0.18
South Creek	3.0	0.36	25 yr	245.40	523.75	525.48	524.67	525.53	0.002006	2.03	162.79	156.35	0.28
North Creek	4.0	1.73	100 yr	975.70	552.00	553.89	553.75	554.35	0.035647	6.60	222.13	185.97	0.85
North Creek	4.0	1.73	25 yr	716.60	552.00	553.48	553.48	554.00	0.051292	6.74	152.31	156.89	0.97
North Creek	4.0	1.36	100 yr	975.70	546.00	550.71		550.91	0.004585	4.21	362.37	152.74	0.35
North Creek	4.0	1.36	25 yr	716.60	546.00	550.27	548.55	550.43	0.003880	3.62	298.04	137.73	0.32
North Creek	4.0	0.83	100 yr	975.70	544.00	547.06		547.32	0.011512	4.91	305.72	184.21	0.51
North Creek	4.0	0.83	25 yr	716.60	544.00	546.50		546.79	0.015899	4.98	210.69	157.49	0.58
North Creek	4.0	0.41	100 yr	975.70	539.61	543.15		543.39	0.008063	4.41	312.39	175.20	0.44
North Creek	4.0	0.41	25 yr	716.60	539.61	542.98		543.13	0.005575	3.53	282.38	166.22	0.36
North Creek	4.0	0.19	100 yr	975.70	538.00	541.50		541.66	0.007400	4.28	371.14	246.47	0.42
North Creek	4.0	0.19	25 yr	716.60	538.00	540.68		541.03	0.019384	5.70	194.71	185.74	0.65

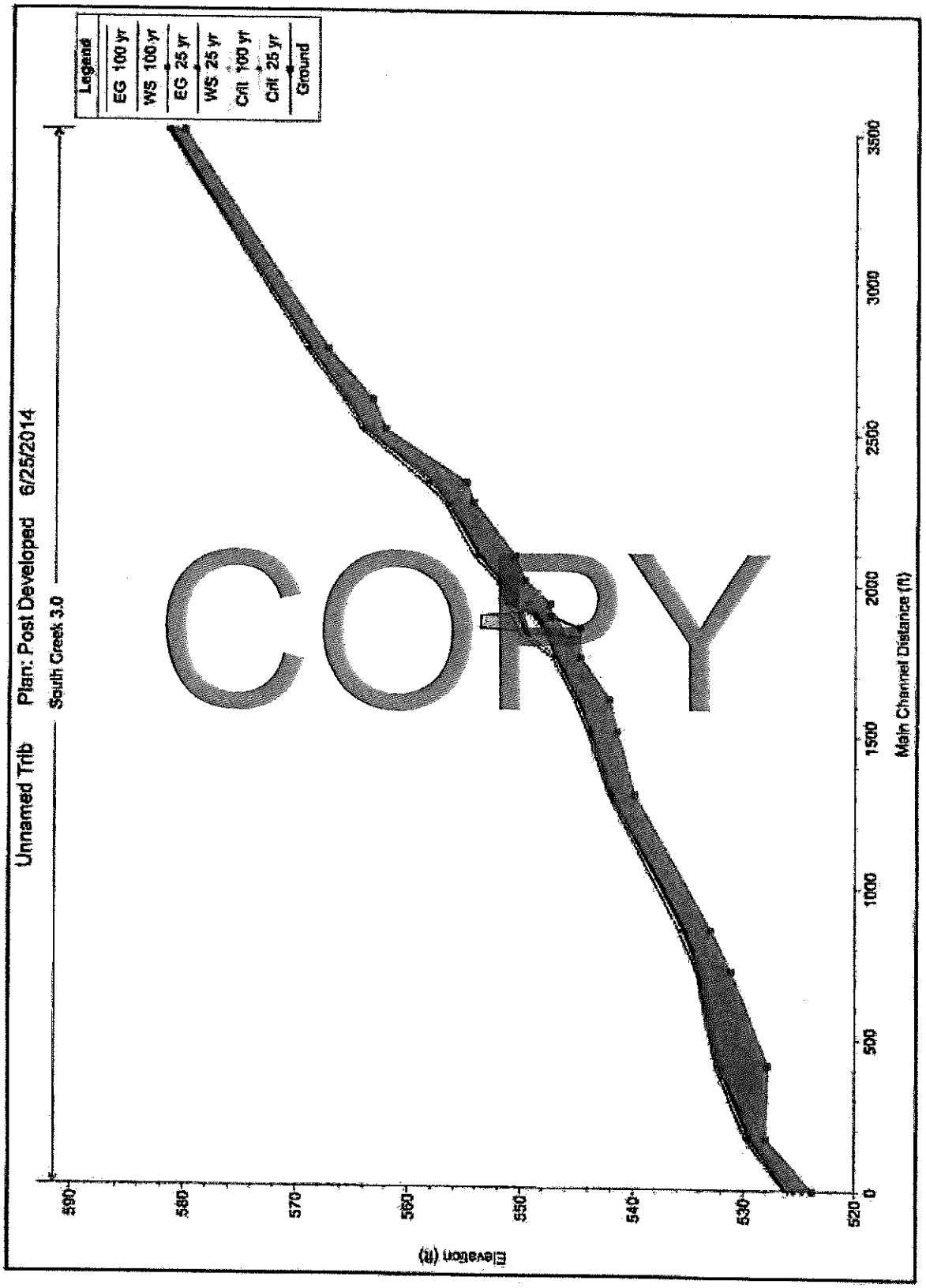

Dry Creek Upstream Plan: Dry Creek 1/23/2014
Dry Creek 1
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Elevation (ft)
525
520
515
510
505
500
495
0
2000
4000
6000
8000
10000
Main Channel Distance (ft)

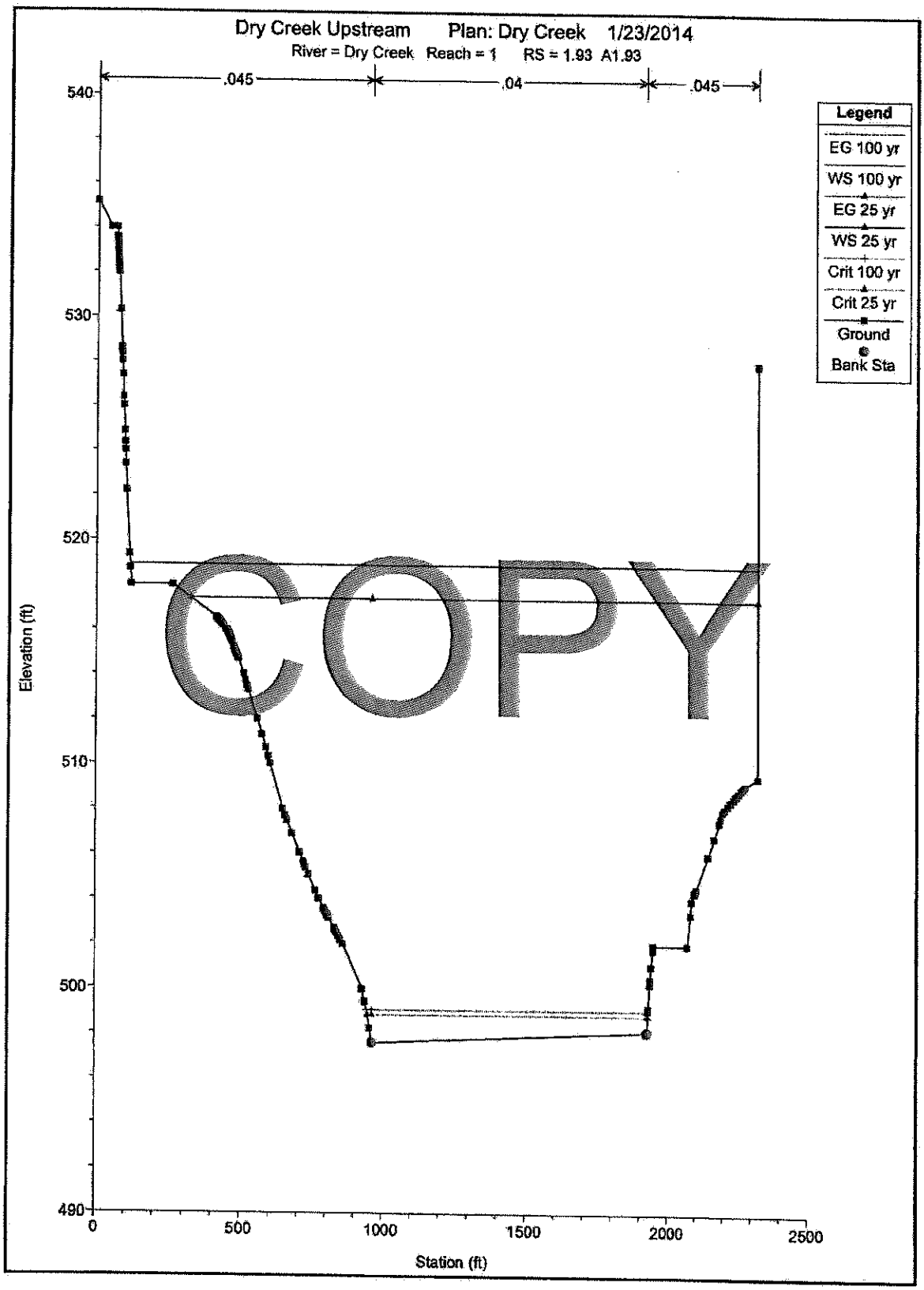

Unnamed Trib Plan: Post Developed 1/23/2014
Unnamed Trib 2.0
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Elevation (ft)
Main Channel Distance (ft)
525
520
515
510
505
500
495
0
500
1000
1500
2000
2500
3000
3500

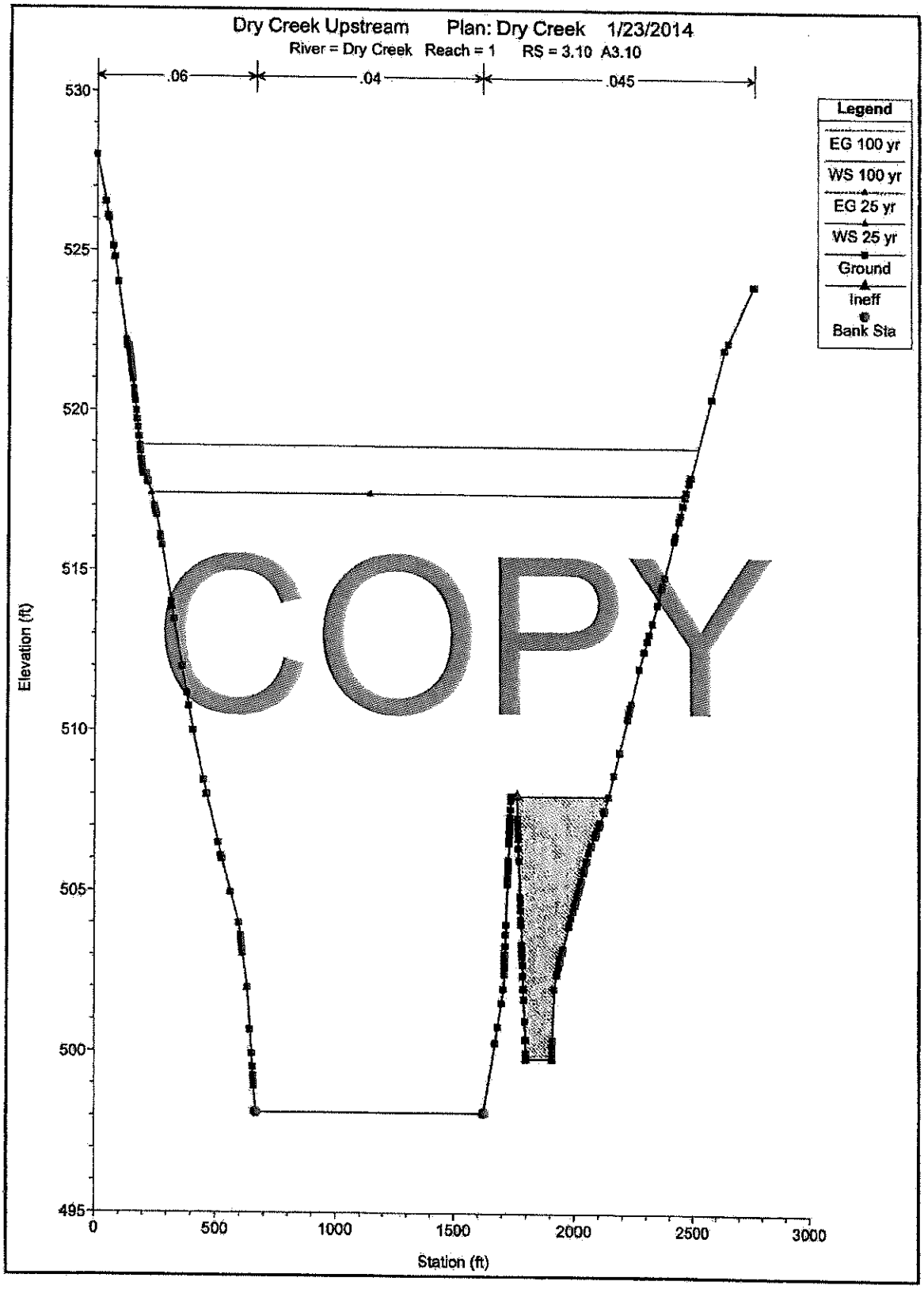

Unnamed Trib Plan: Post Developed 1/23/2014
Unnamed Trib 2.1
Legend
Crit 100 yr
Crit 25 yr
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Elevation (ft)
Main Channel Distance (ft)
545
540
535
530
525
520
515
0
500
1000
1500
2000
2500
3000
3500

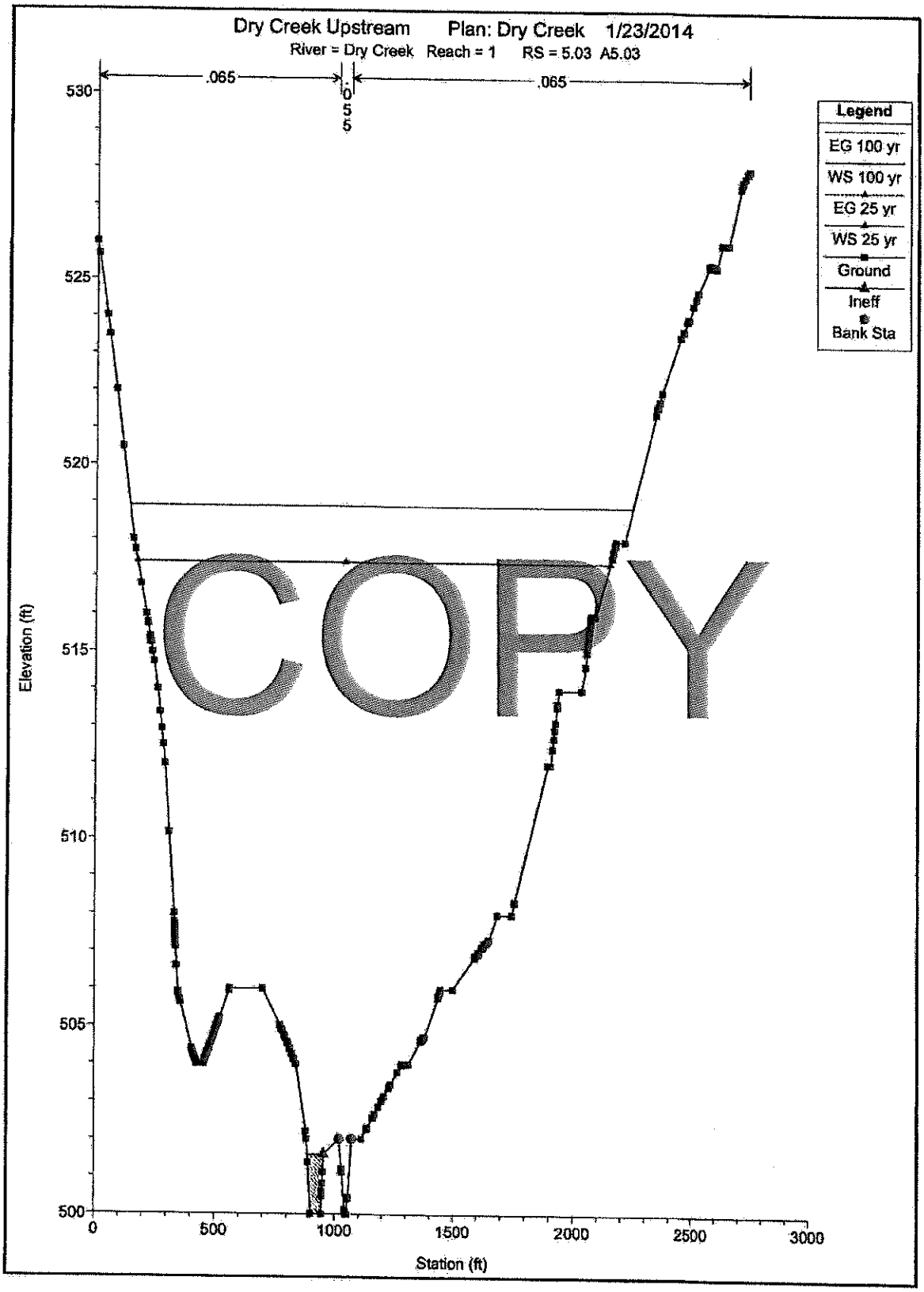

Unnamed Trib
Plan: Post Developed
1/23/2014
Unnamed Trib 2.2
Legend
Crit 100 yr
Crit 25 yr
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Elevation (ft)
Main Channel Distance (ft)
565
560
555
550
545
540
535
530
0
1000
2000
3000
4000
5000

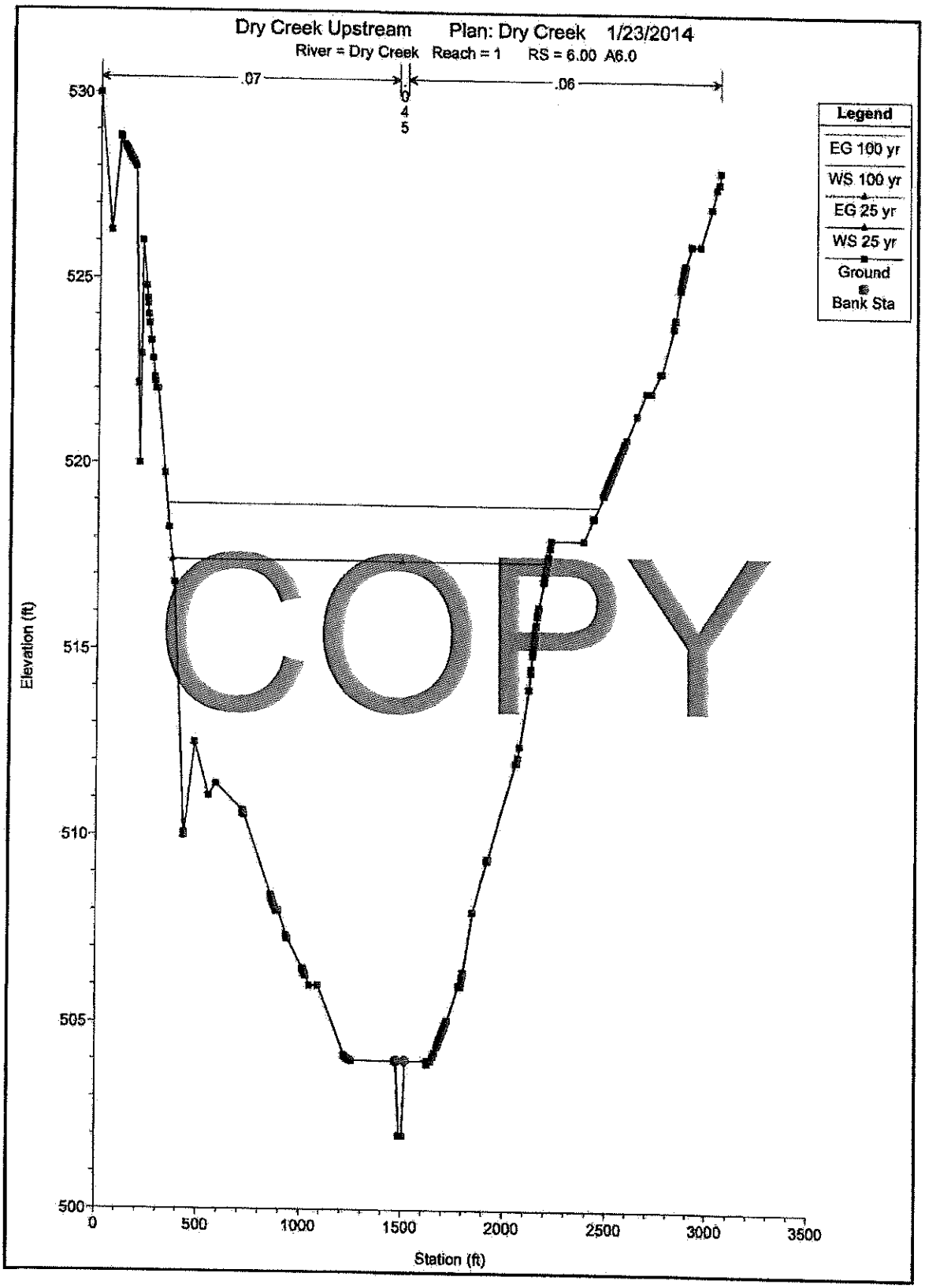

Unnamed Trib
Plan: Post Developed 1/23/2014
North Creek 4.0
Legend
Crit 100 yr
Crit 25 yr
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Elevation (ft)
Main Channel Distance (ft)
556
554
552
550
548
546
544
542
540
538
0
200
400
600
800
1000
1200
1400
1600

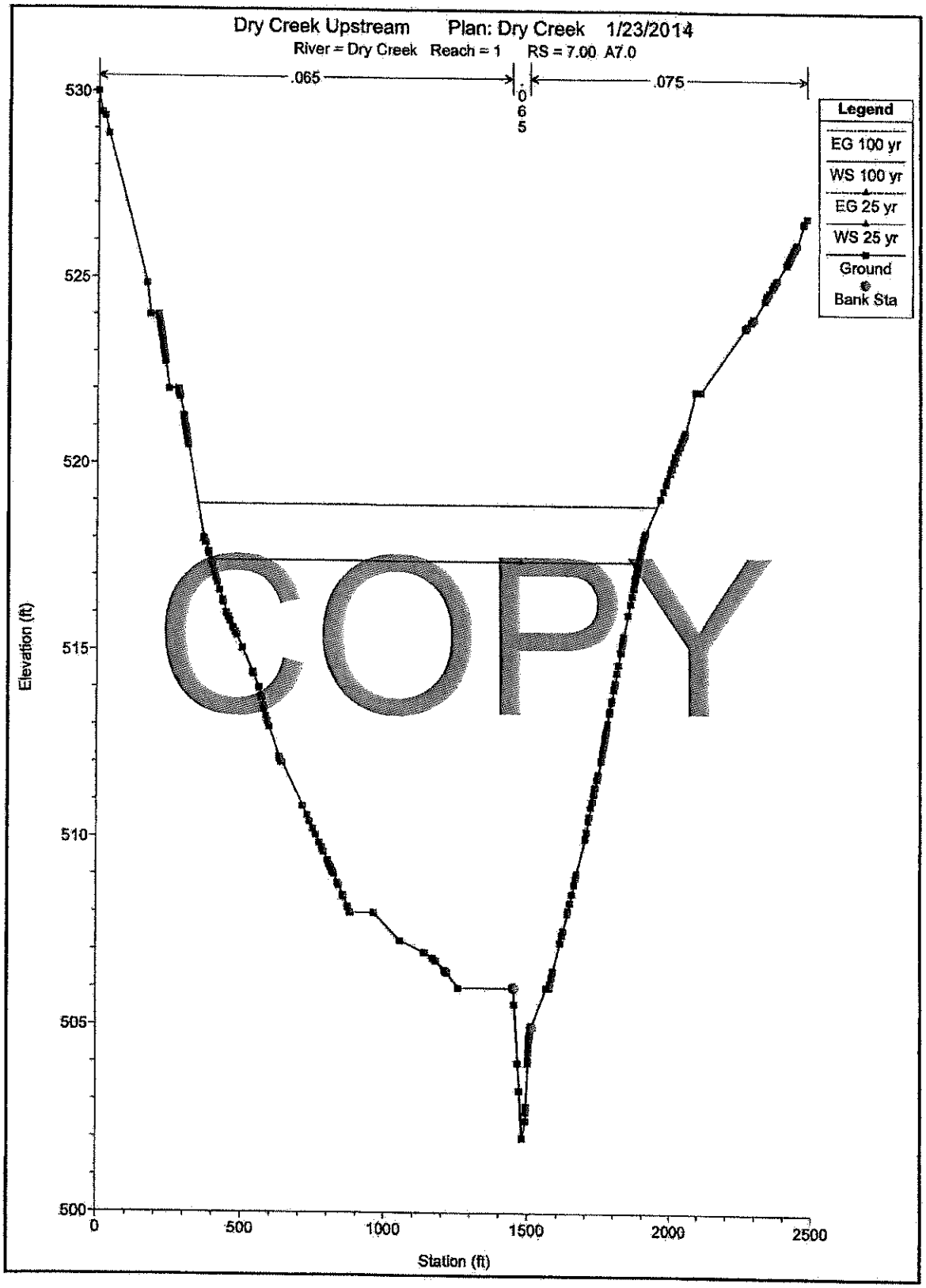

Unnamed Trib
Plan: Post Developed 6/25/2014
South Creek 3.0
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Elevation (ft)
590
580
570
560
550
540
530
520
0
500
1000
1500
2000
2500
3000
3500
Main Channel Distance (ft)

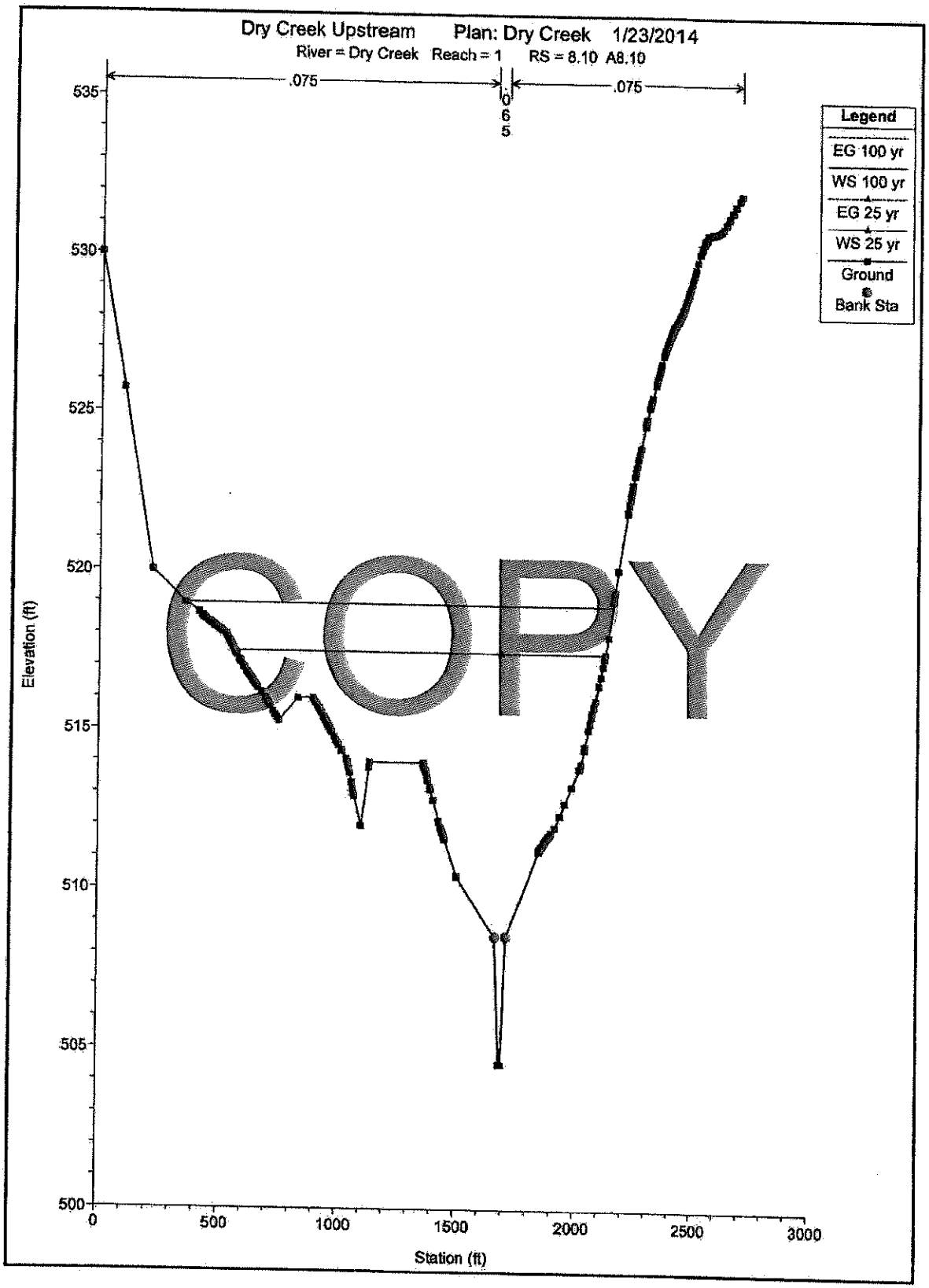

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 1.93 A1.93
.045
.04
.045
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
540
530
520
510
500
490
0
500
1000
1500
2000
2500

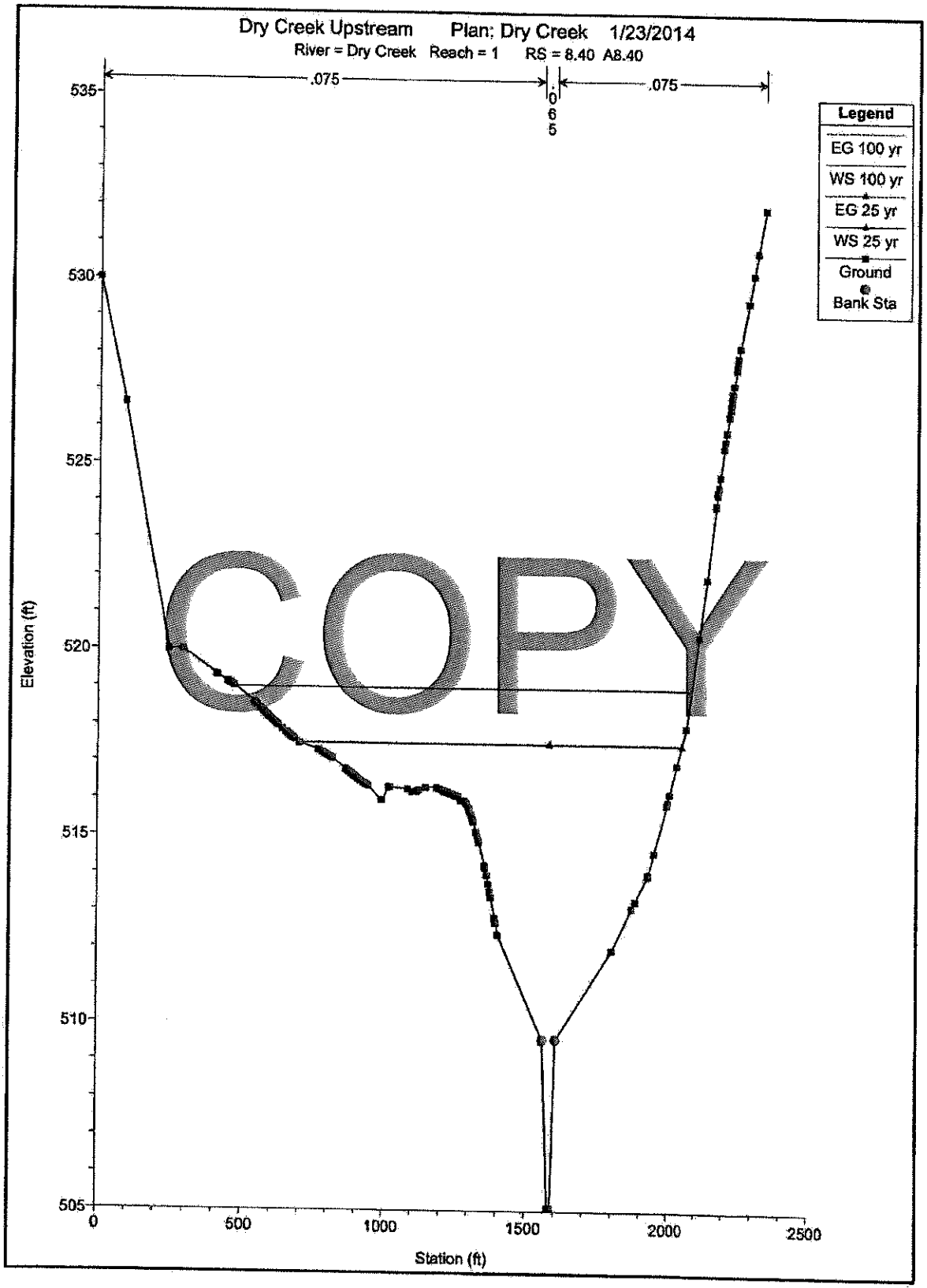

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 3.10 A3.10
.06
.04
.045
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Ineff
Bank Sta
Elevation (ft)
530
525
520
515
510
505
500
495
0
500
1000
1500
2000
2500
3000
Station (ft)
COPY

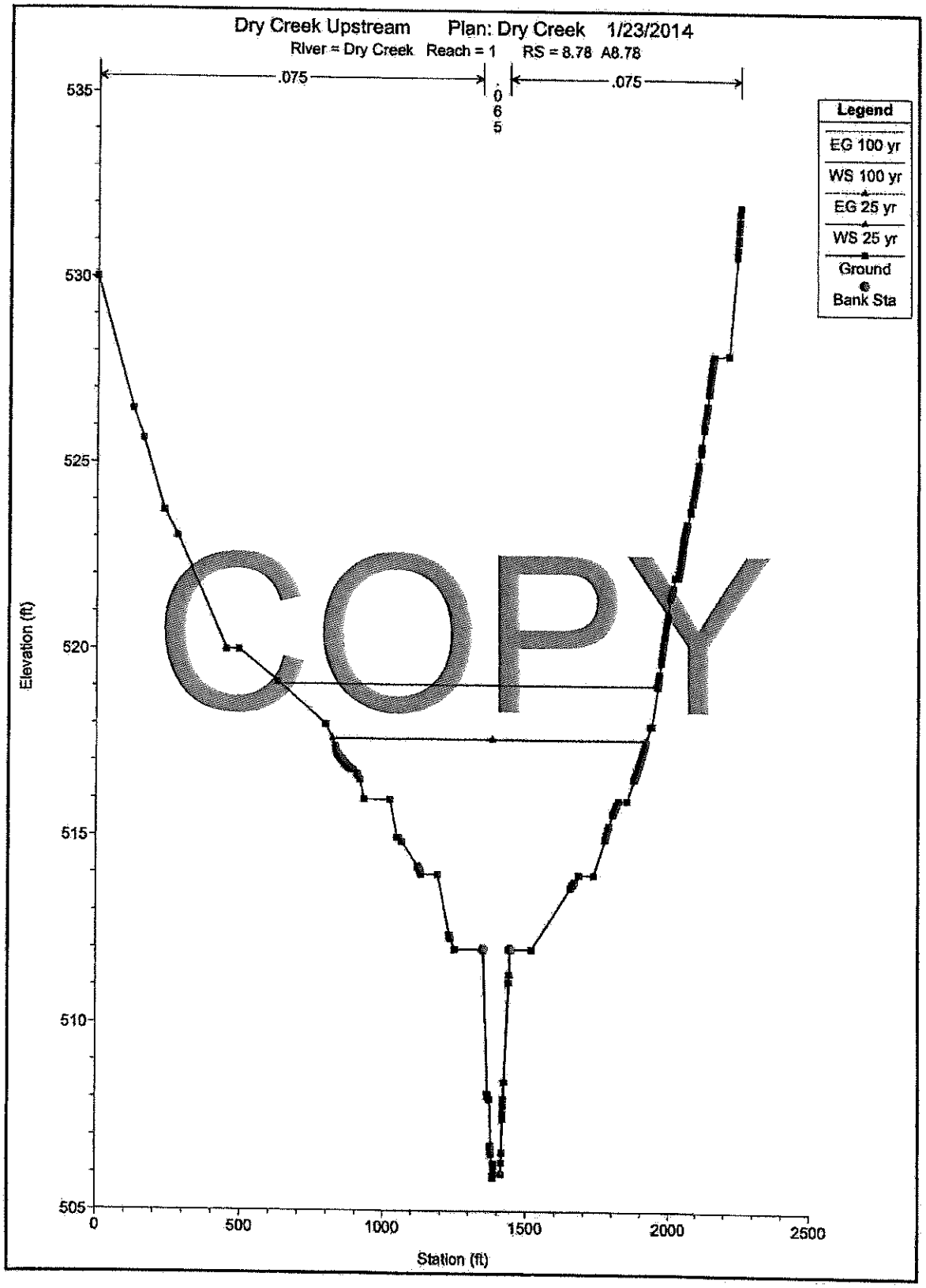

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 5.03 A5.03
.065
.05
5
5
.065
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Ineff
Bank Sta
Elevation (ft)
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500
3000
Station (ft)

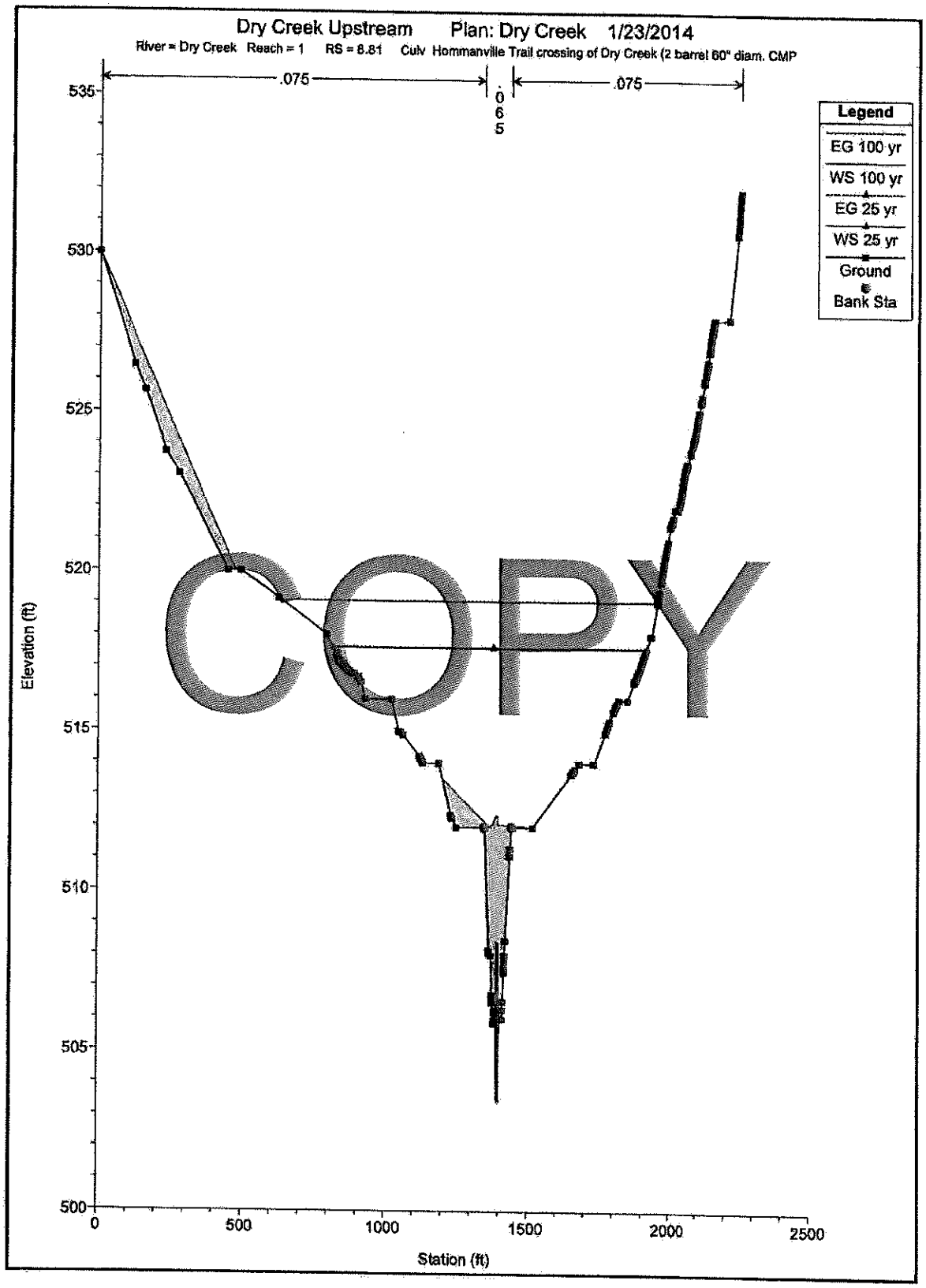

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 6.00 A6.0
.07
.06
0.045
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500
3000
3500

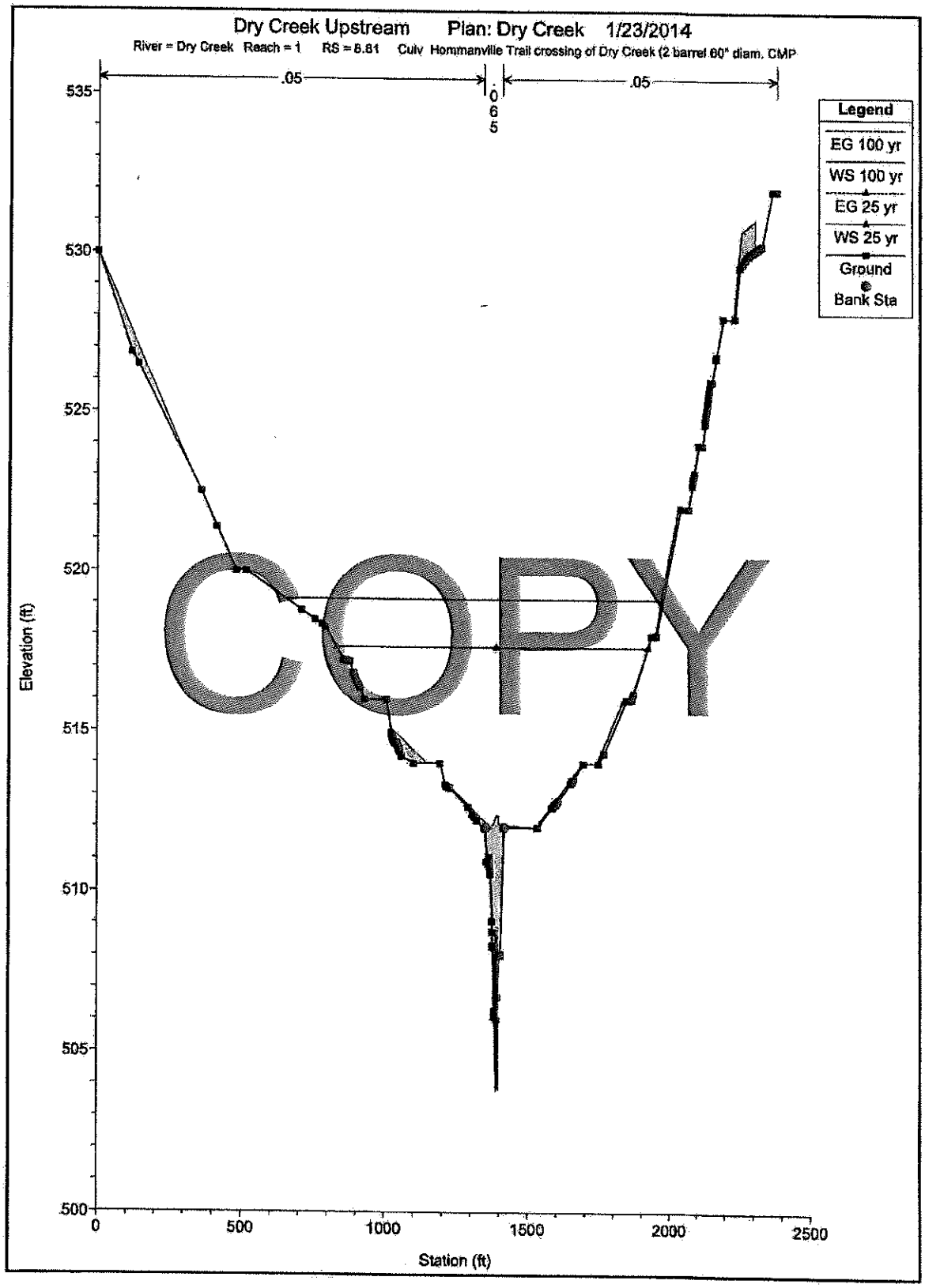

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 7.00 A7.0
.065
.075
065
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500
Station (ft)

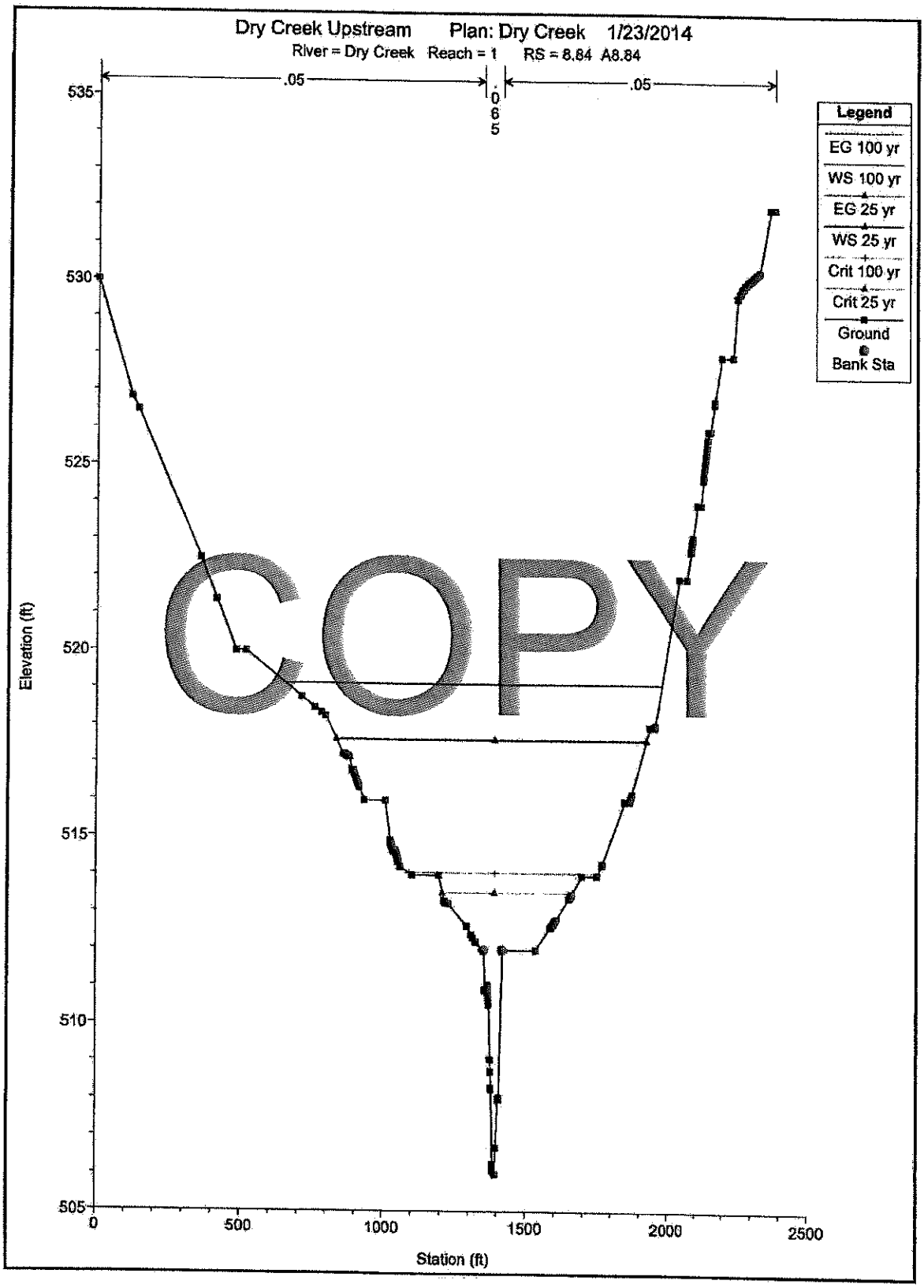

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.10 A8.10
.075
.075
0
6
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
535
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500
3000

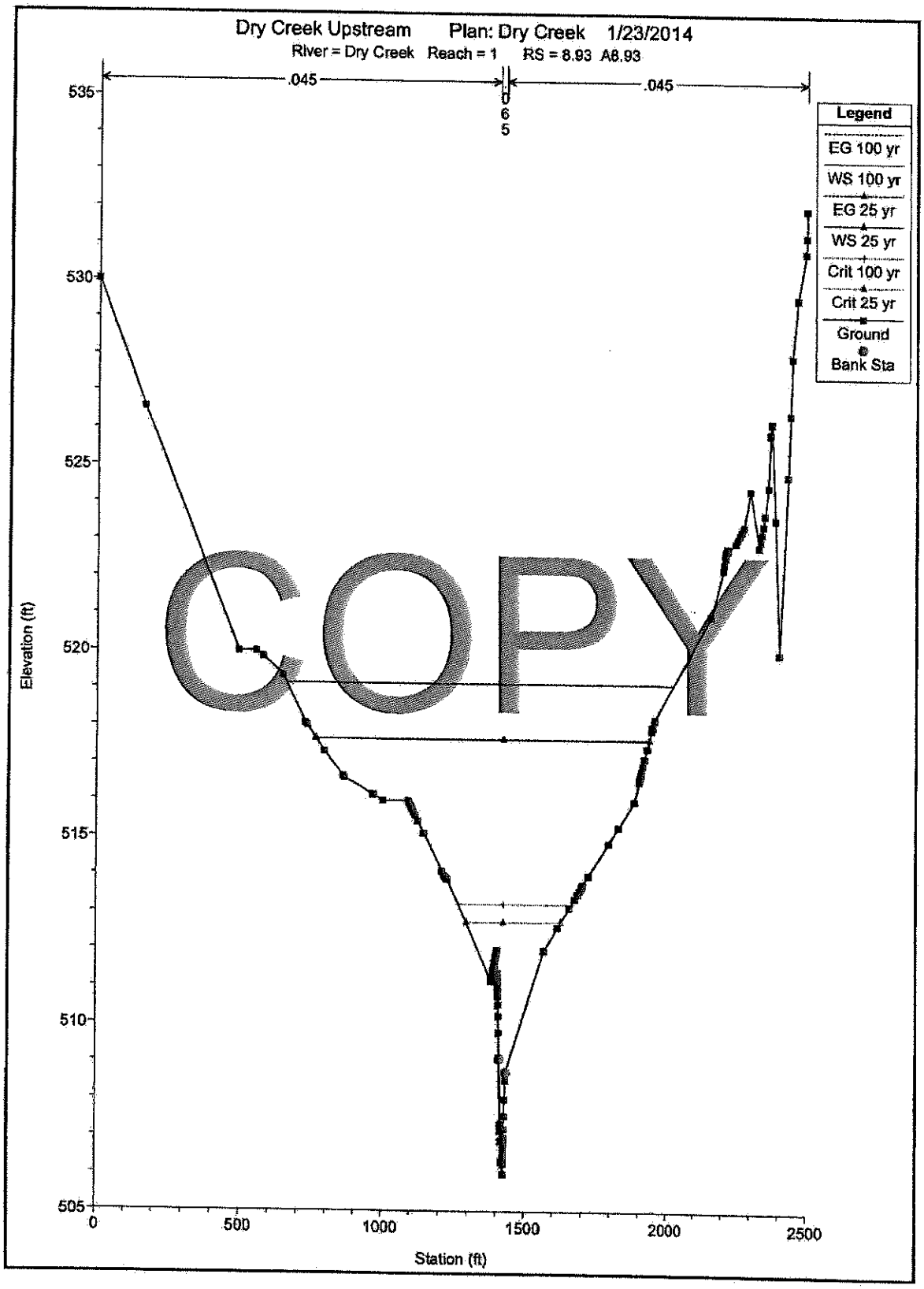

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.40 A8.40
.075
.075
0
6
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
535
530
525
520
515
510
505
0
500
1000
1500
2000
2500
Station (ft)

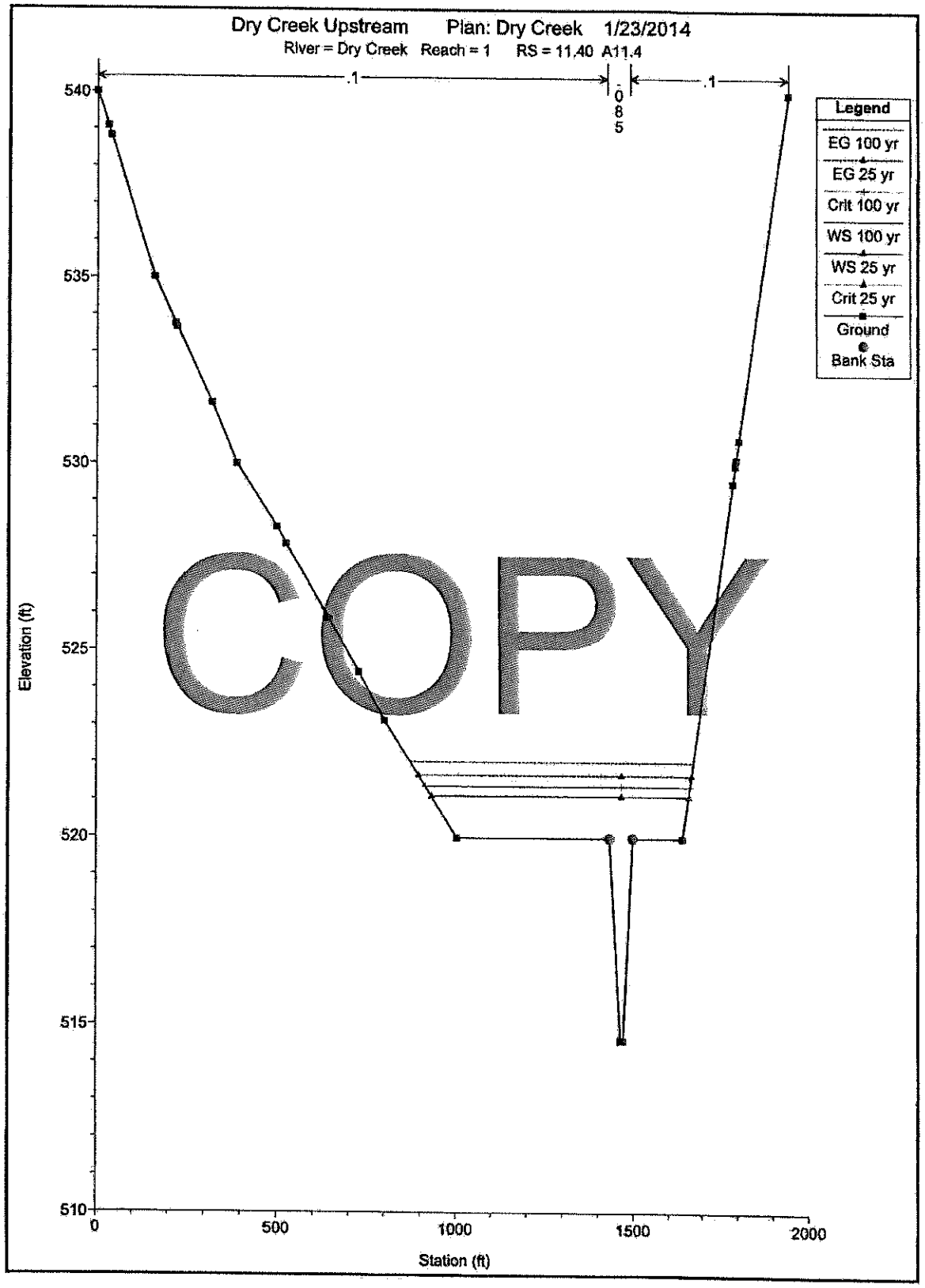

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.78 A8.78
.075
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
535
530
525
520
515
510
505
0
500
1000
1500
2000
2500
Station (ft)

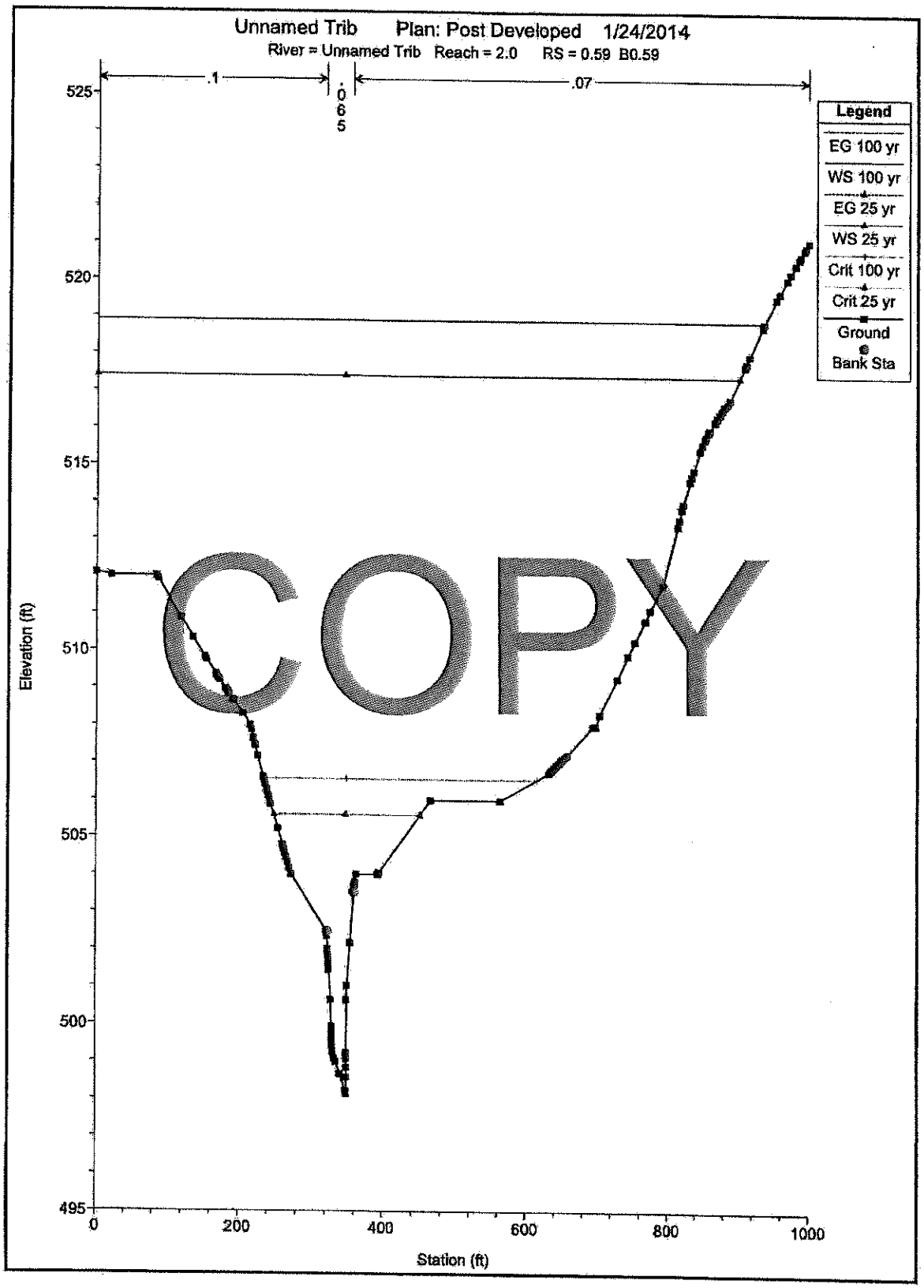

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.81 Culv Hommanville Trail crossing of Dry Creek (2 barrel 60" diam. CMP
.075
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
535
530
525
520
515
510
505
500
0
500
1000
1500
2000
2500

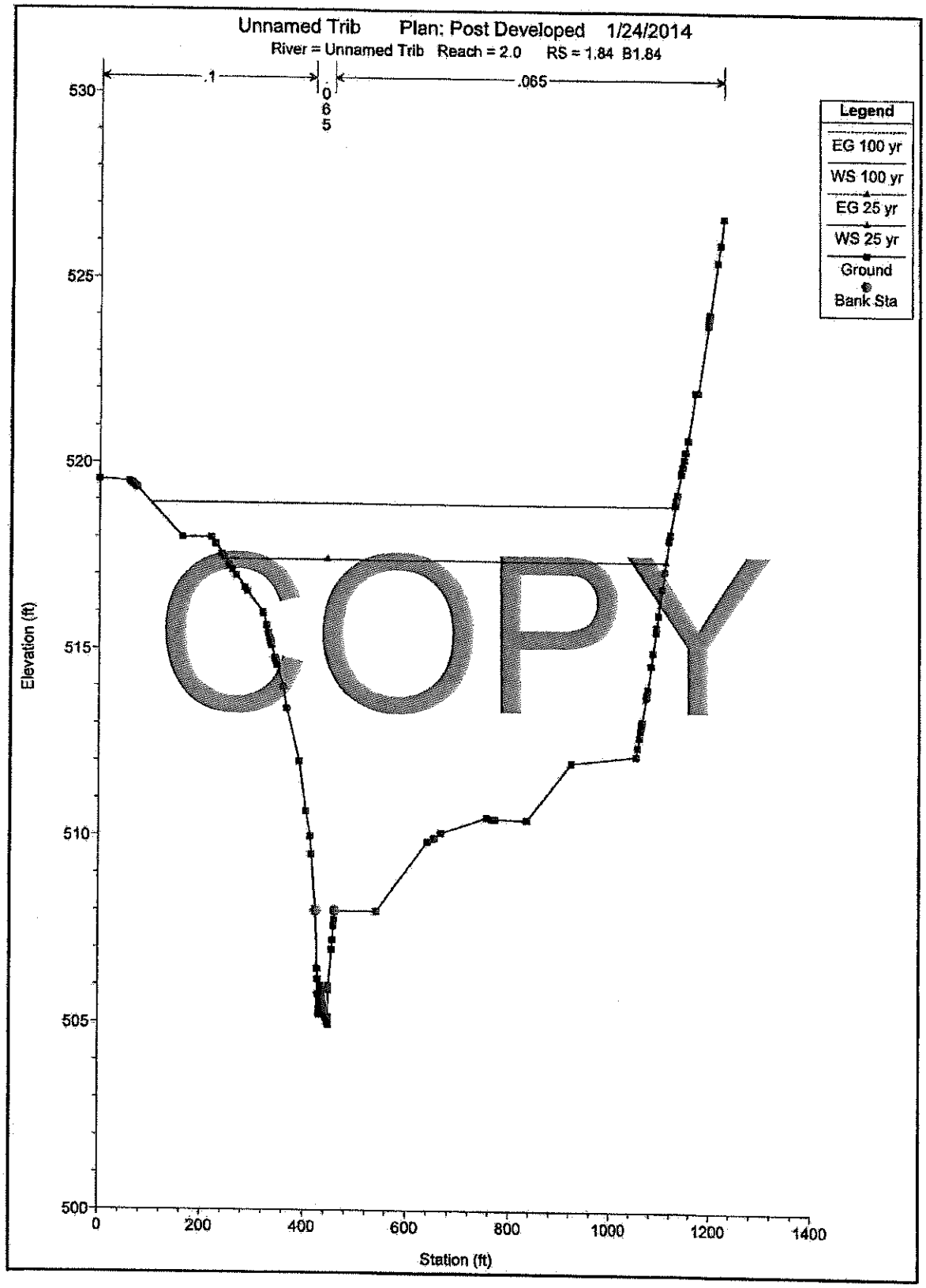

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.81 Culv Hommanville Trail crossing of Dry Creek (2 barrel 60" diam. CMP
.05
.05
0
6
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
535
530
525
520
515
510
505
500
Elevation (ft)
0
500
1000
1500
2000
2500
Station (ft)
COPY

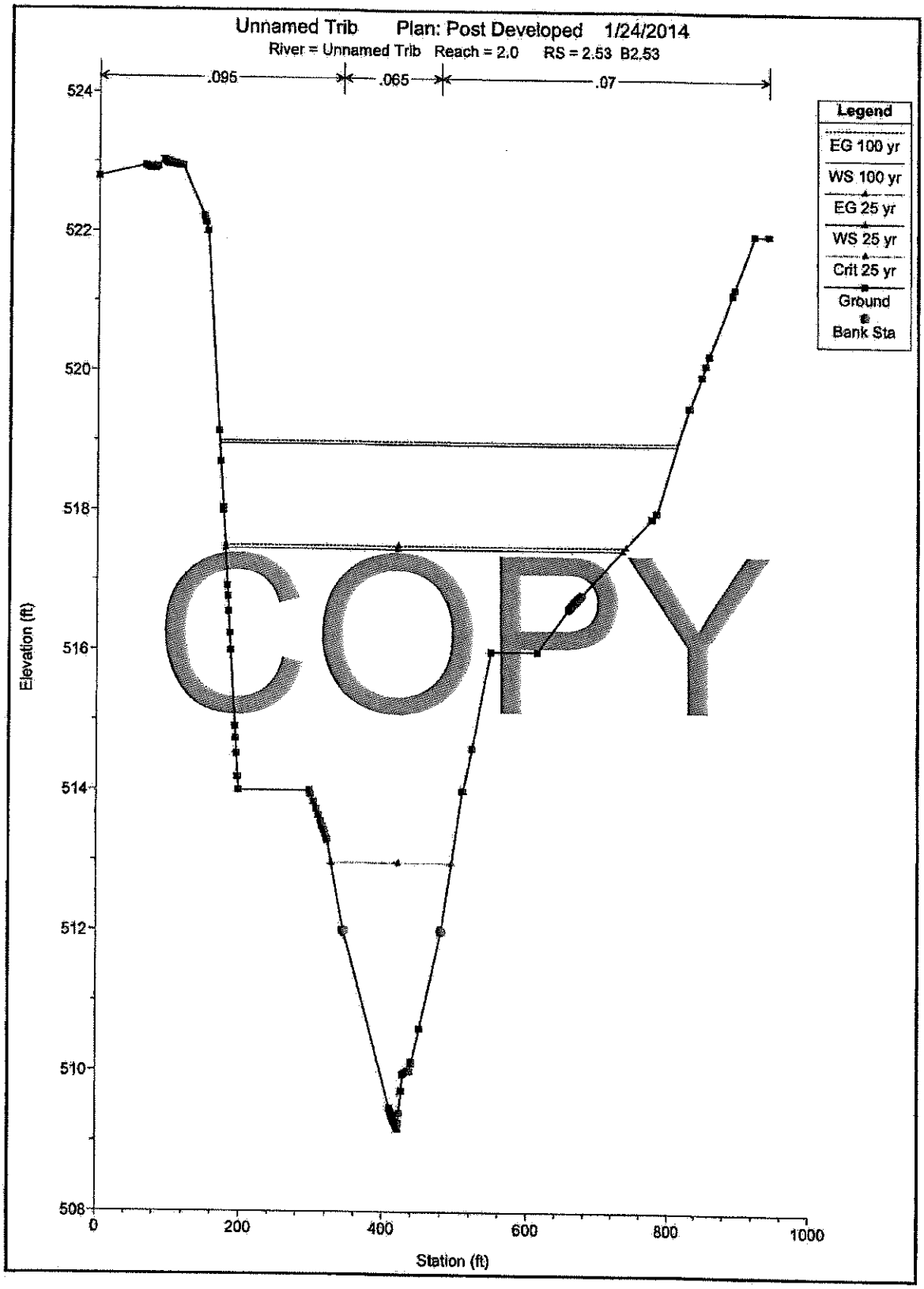

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.84 A8.84
.05
.065
.05
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
535
530
525
520
515
510
505
0
500
1000
1500
2000
2500
Station (ft)

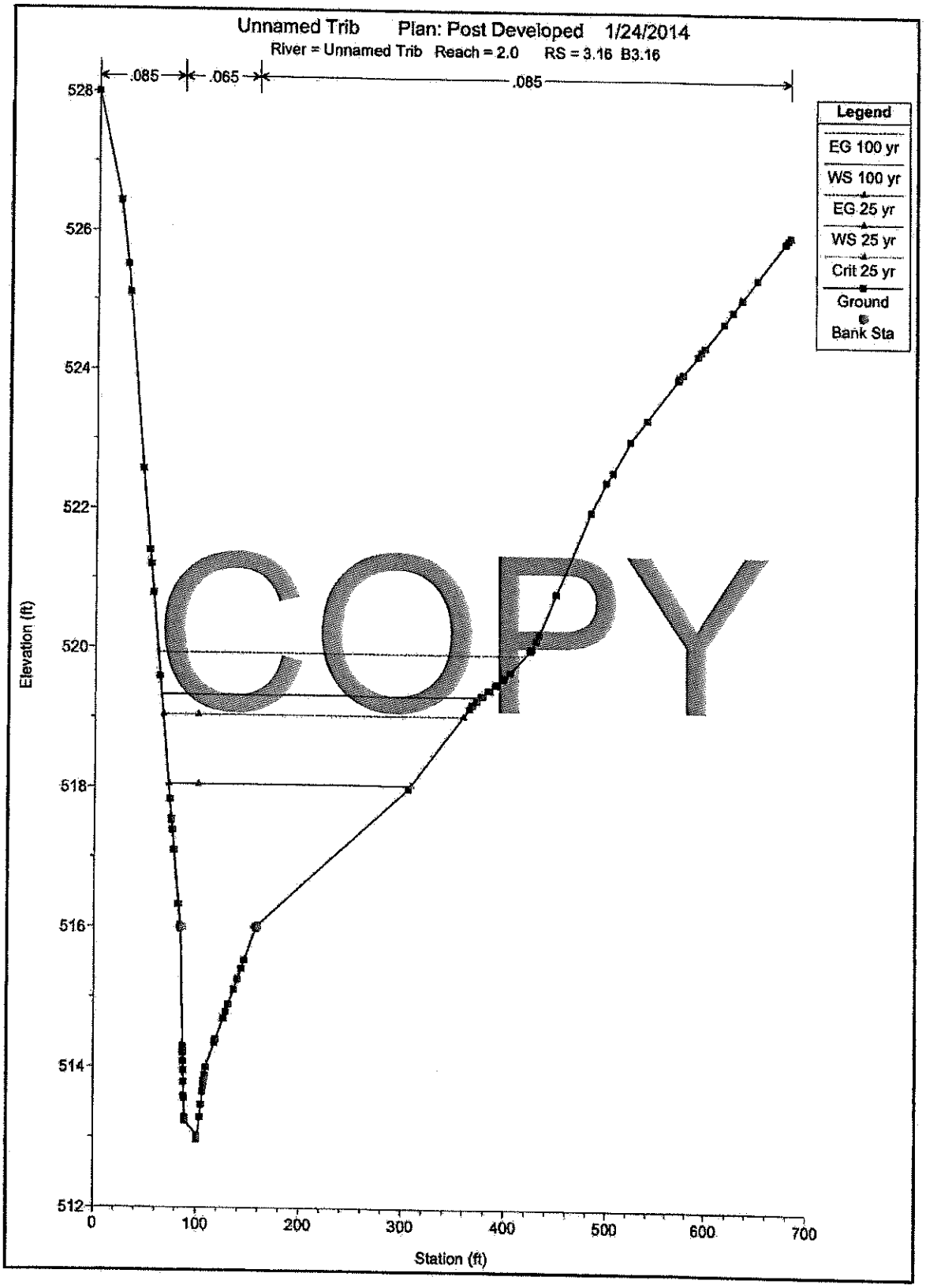

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 8.93 A8.93
.045
.045
0
6
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
535
530
525
520
515
510
505
Elevation (ft)
0
500
1000
1500
2000
2500
Station (ft)

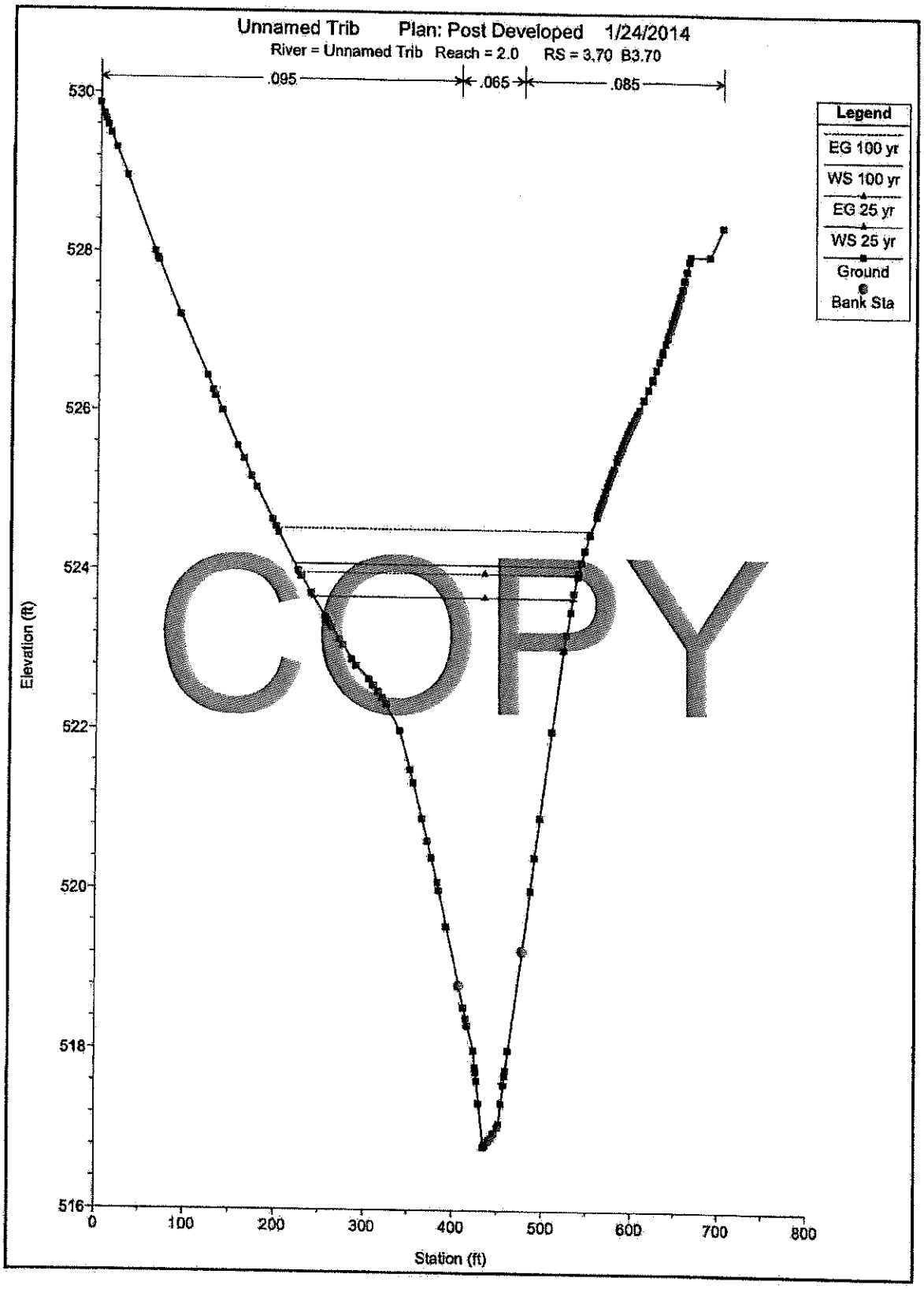

Dry Creek Upstream Plan: Dry Creek 1/23/2014
River = Dry Creek Reach = 1 RS = 11.40 A11.4
.1
.1
0
8
5
Legend
EG 100 yr
EG 25 yr
Crit 100 yr
WS 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
540
535
530
525
520
515
510
0
500
1000
1500
2000
Station (ft)

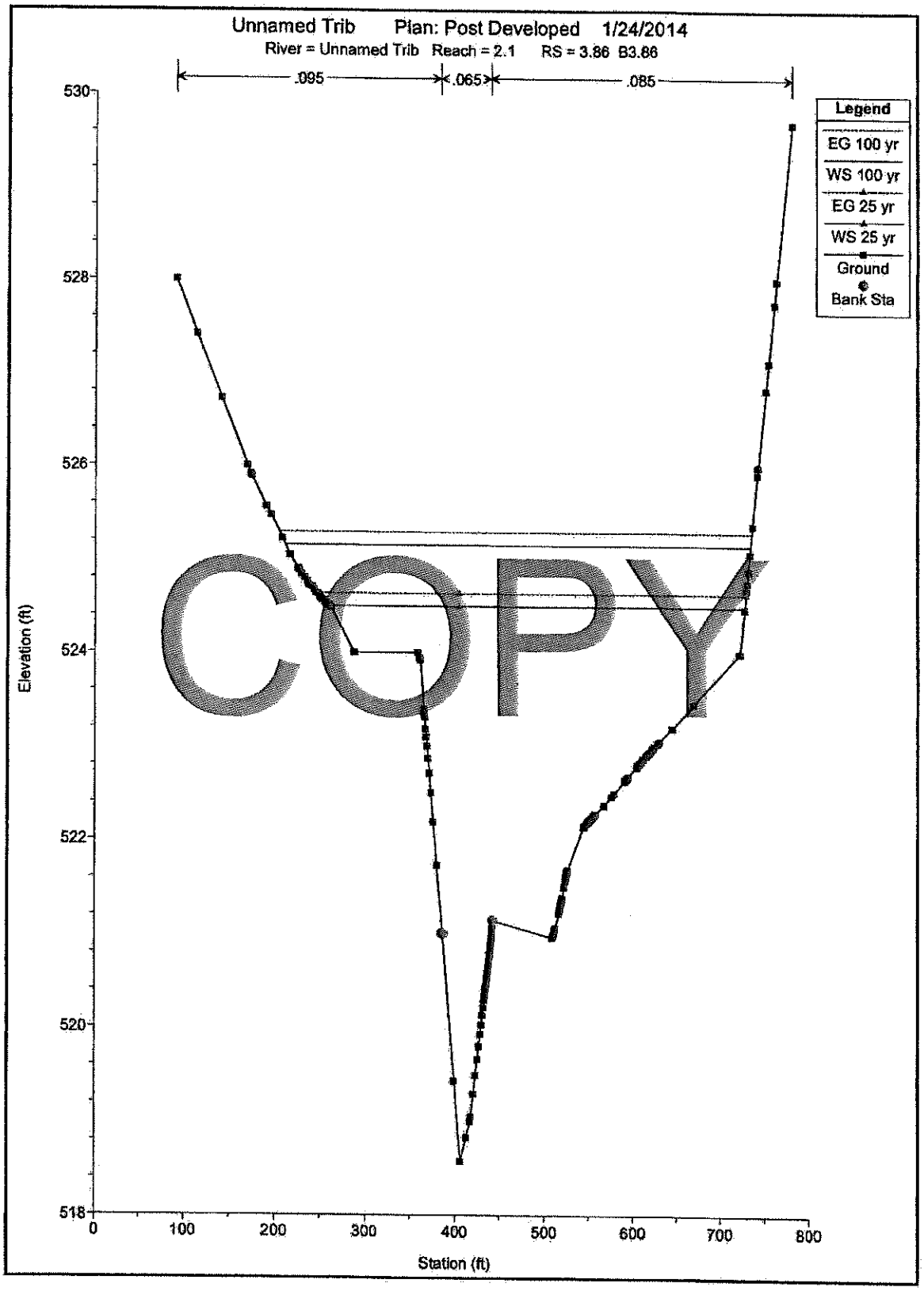

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.0 RS = 0.59 B0.59
.1
.065
.07
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
525
520
515
510
505
500
495
0
200
400
600
800
1000

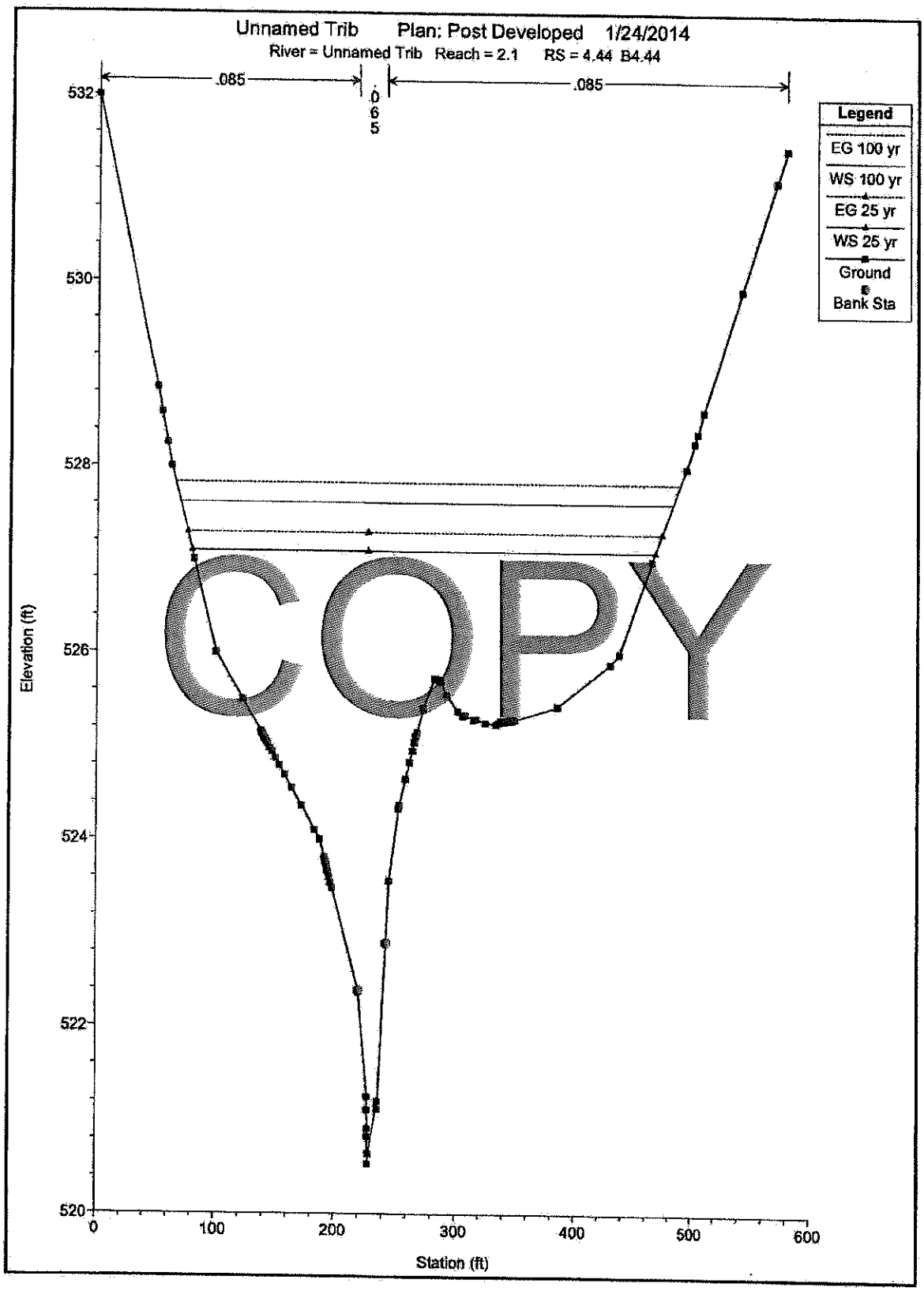

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.0 RS = 1.84 B1.84
.1
.065
0
6
5
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
530
525
520
515
510
505
500
0
200
400
600
800
1000
1200
1400
Station (ft)

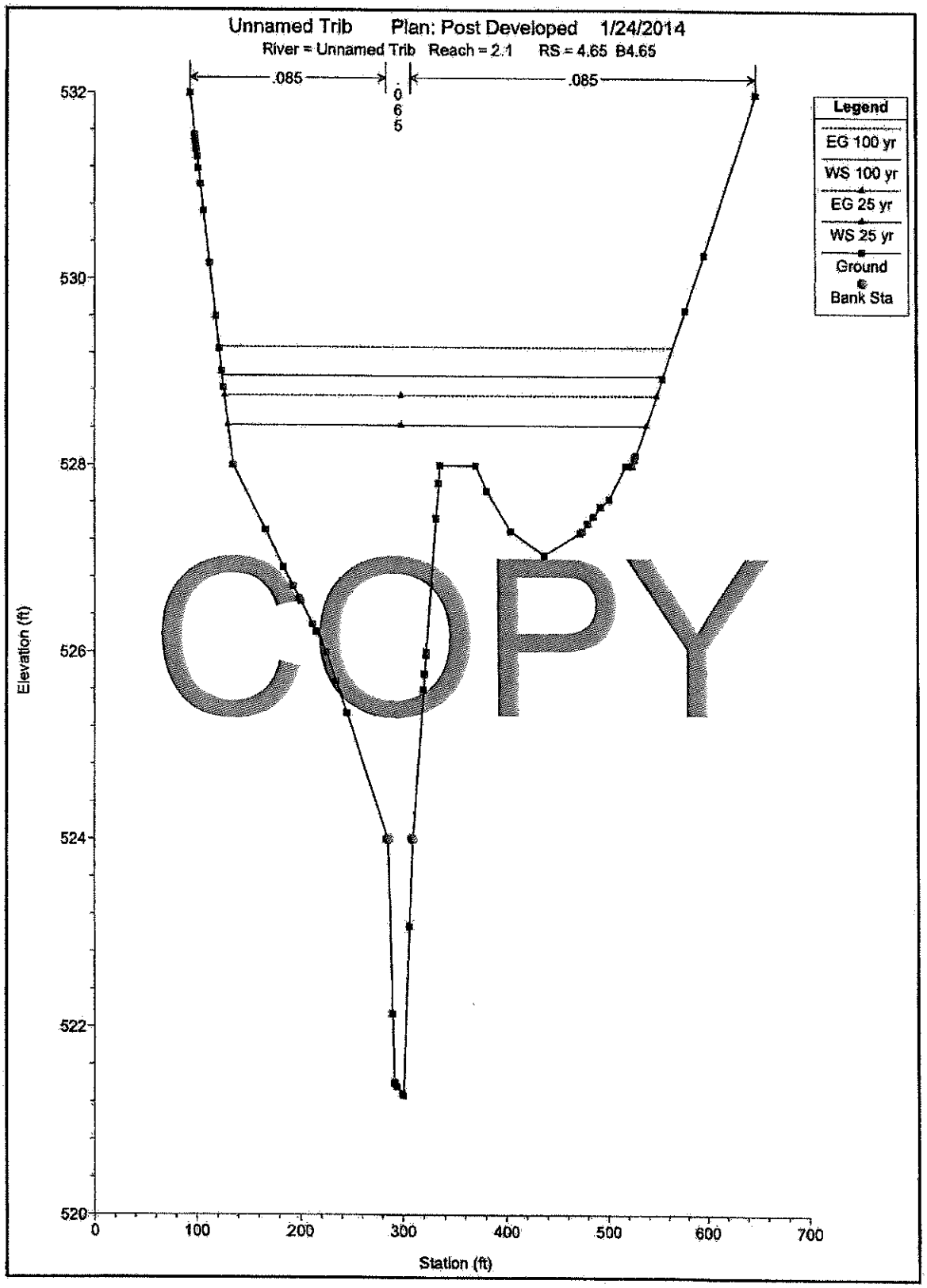

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.0 RS = 2.53 B2.53
.095
.065
.07
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
524
522
520
518
516
514
512
510
508
0
200
400
600
800
1000
COPY

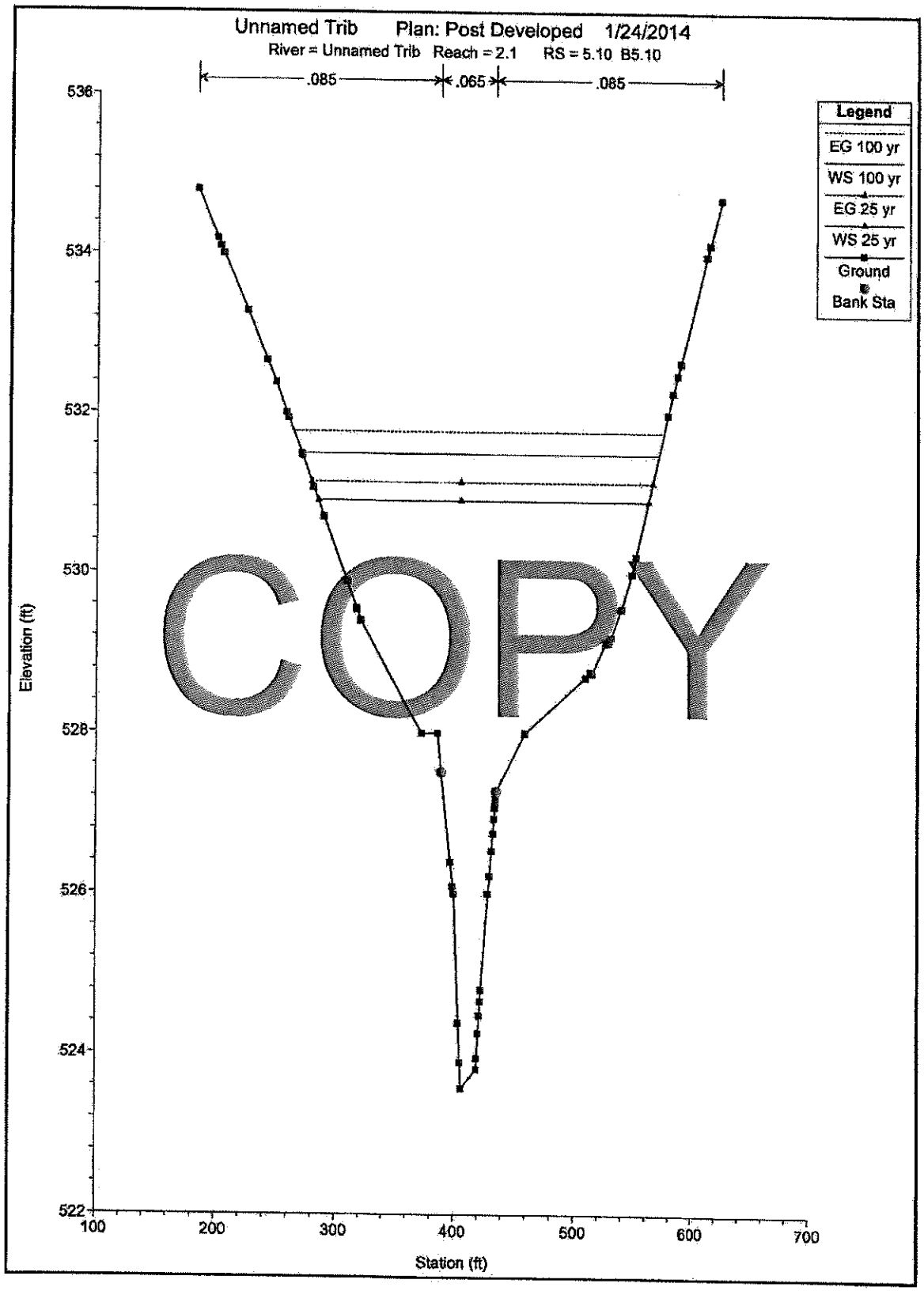

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.0 RS = 3.16 B3.16
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
528
526
524
522
520
518
516
514
512
0
100
200
300
400
500
600
700

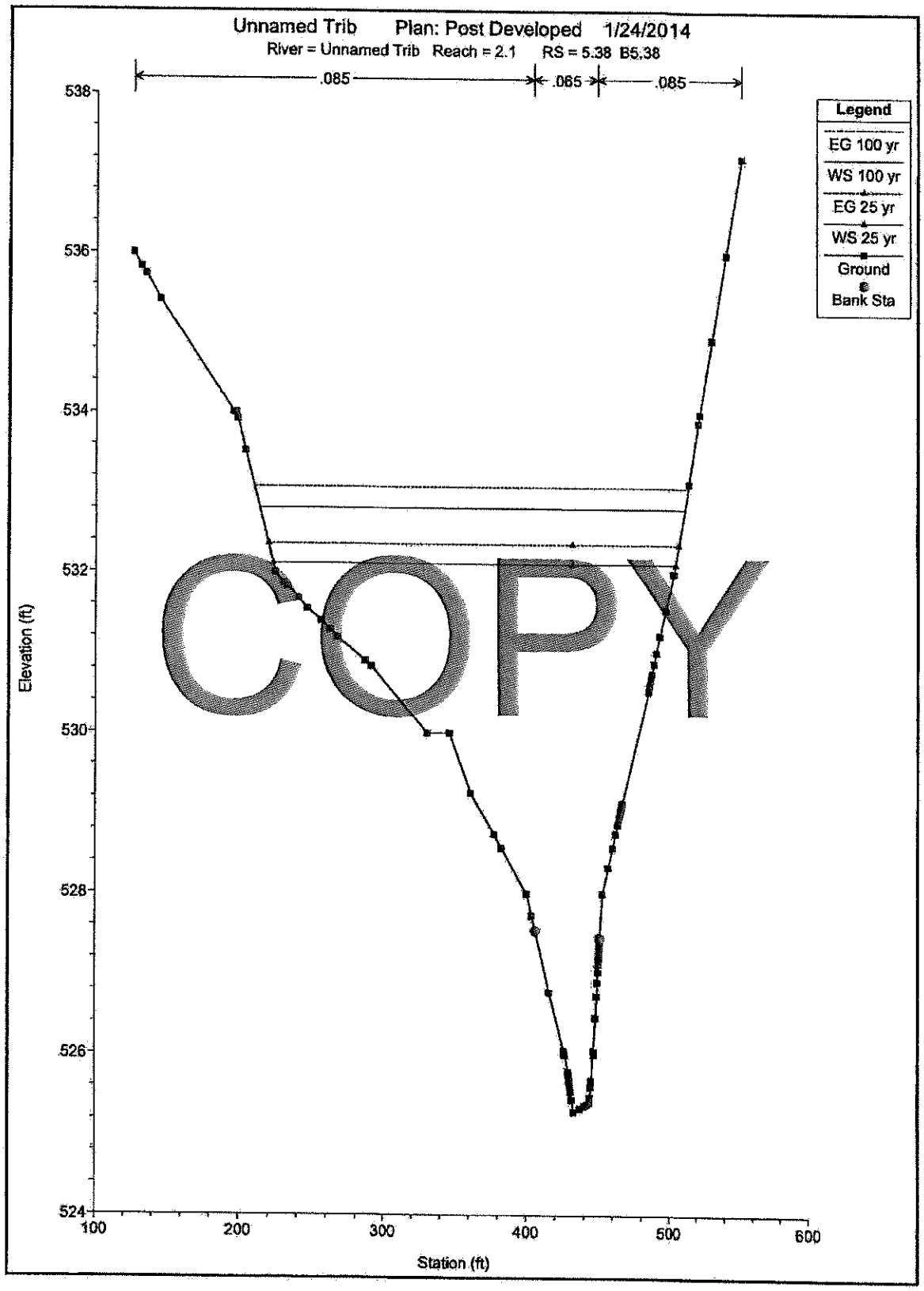

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.0 RS = 3.70 B3.70
.095
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
530
528
526
524
522
520
518
516
0
100
200
300
400
500
600
700
800
COPY

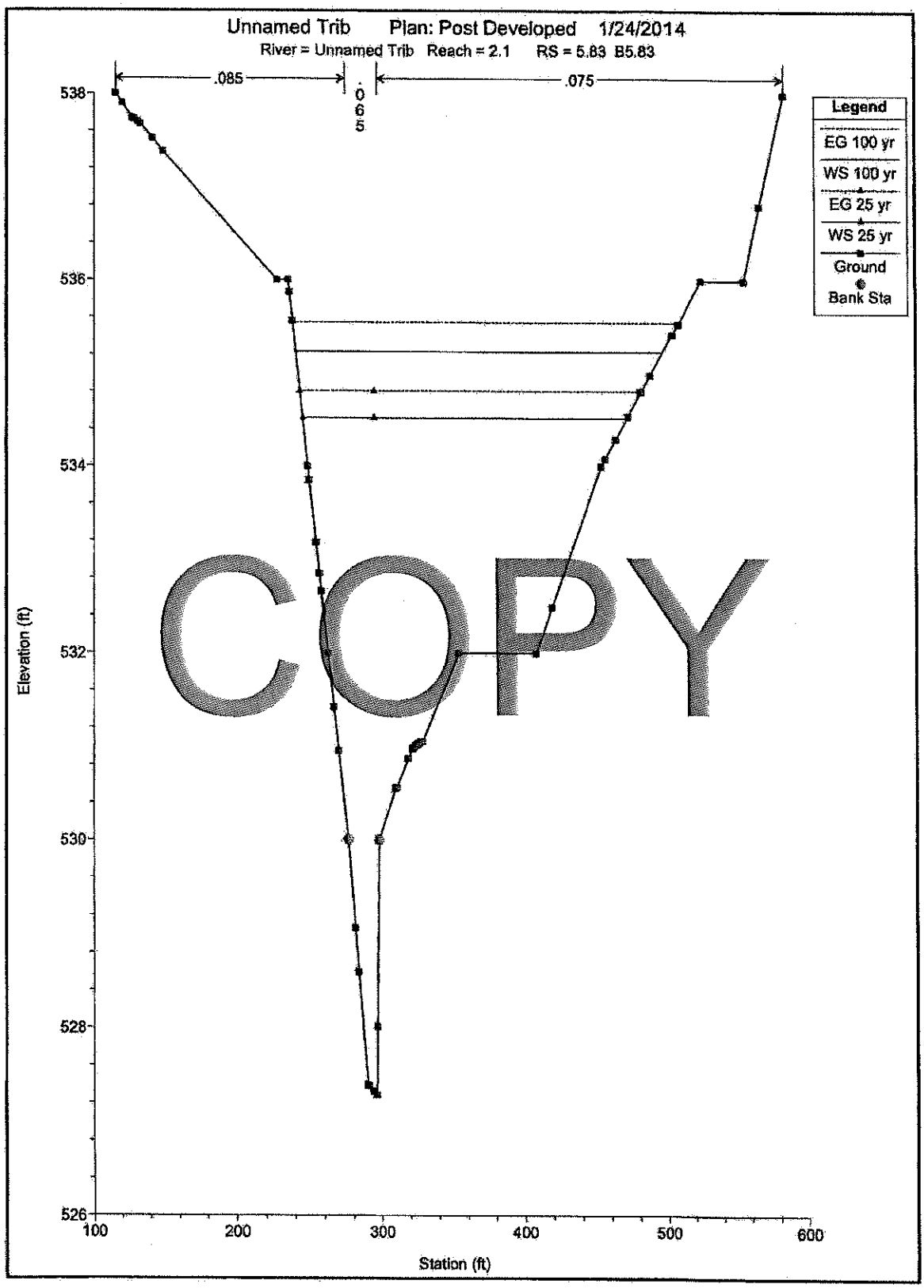

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 3.86 B3.86
.095
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
530
528
526
524
522
520
518
0
100
200
300
400
500
600
700
800
COPY

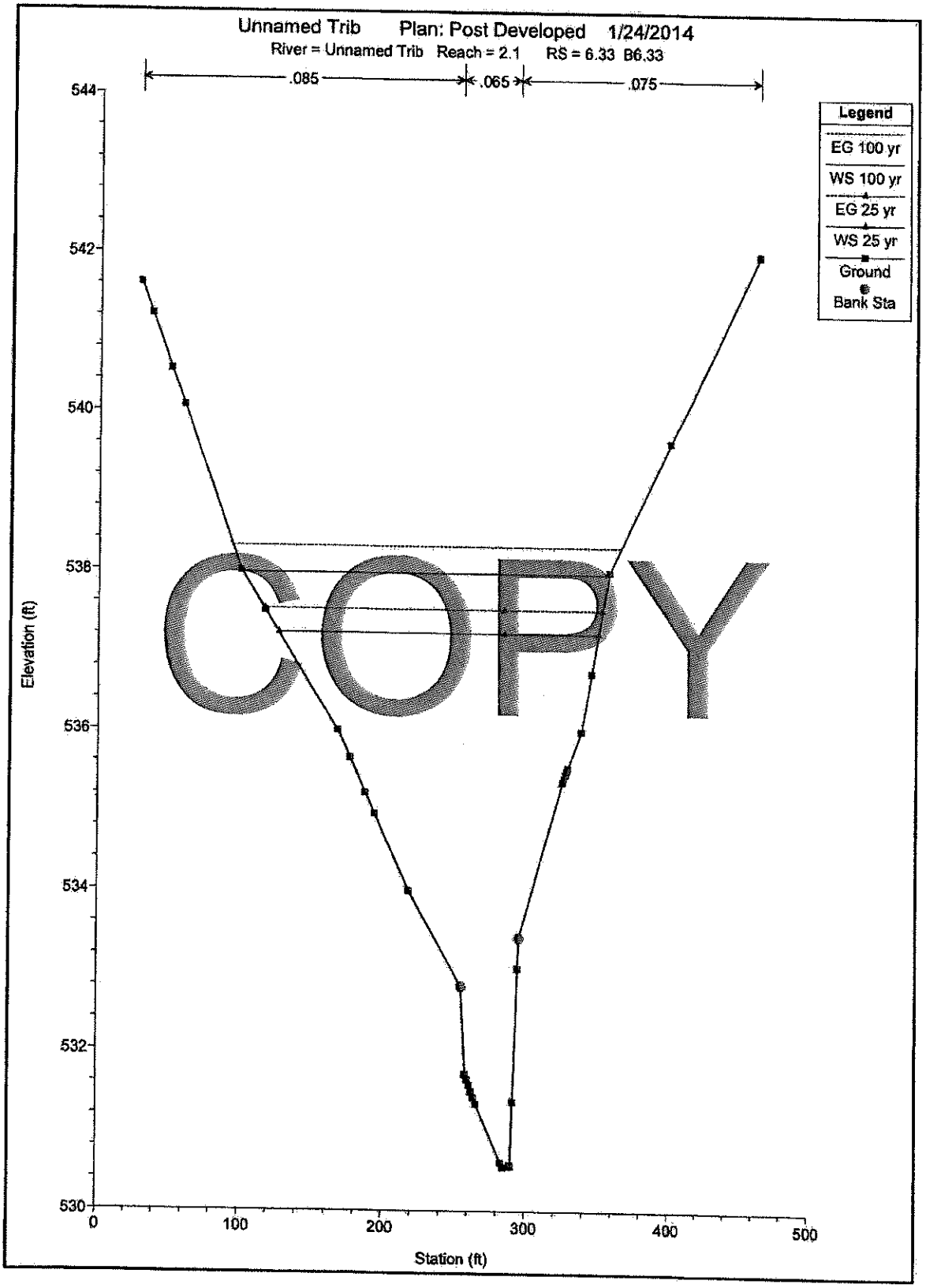

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 4.44 B4.44
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
532
530
528
526
524
522
520
0
100
200
300
400
500
600

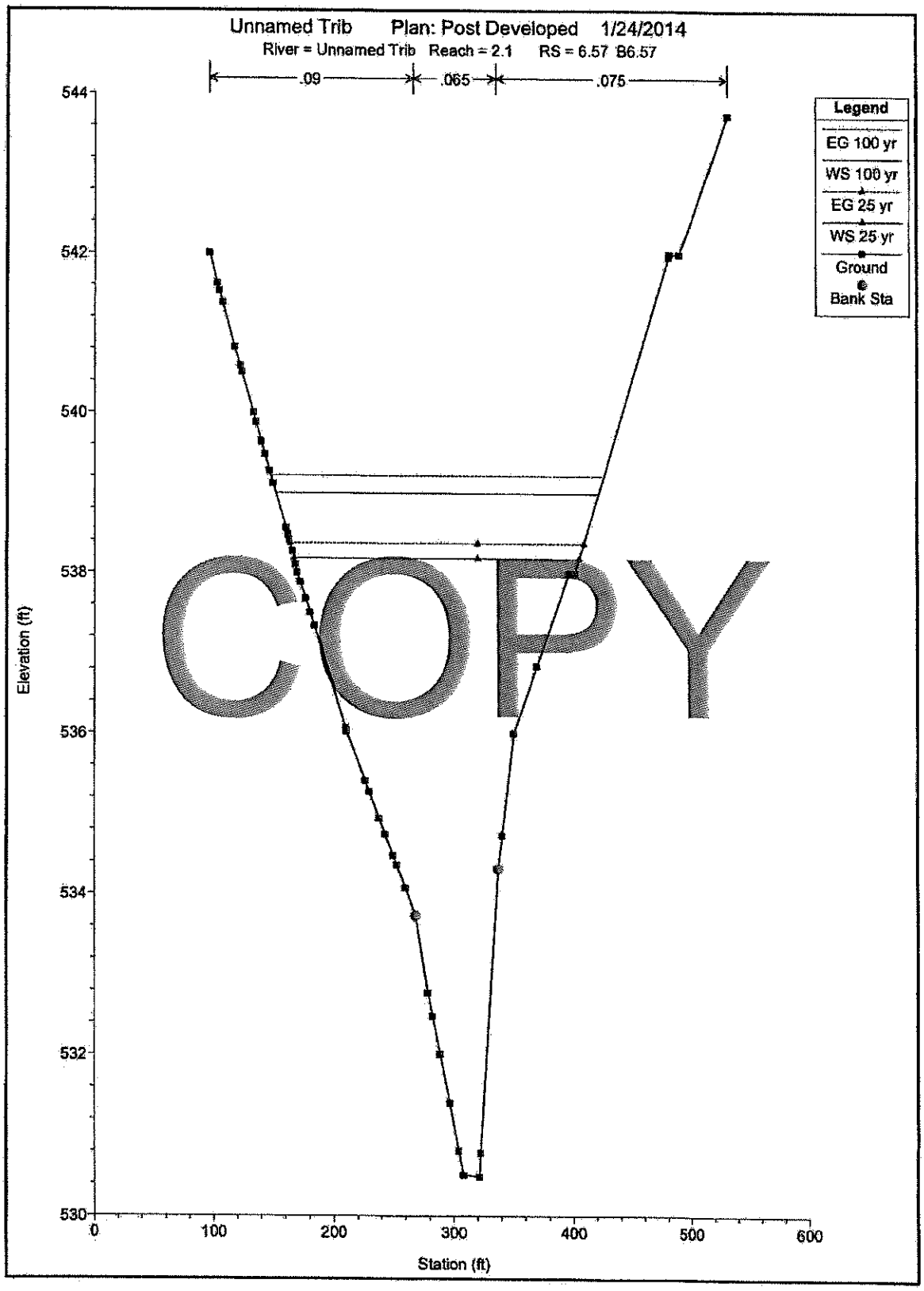

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 4.65 B4.65
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
532
530
528
526
524
522
520
0
100
200
300
400
500
600
700
COPY

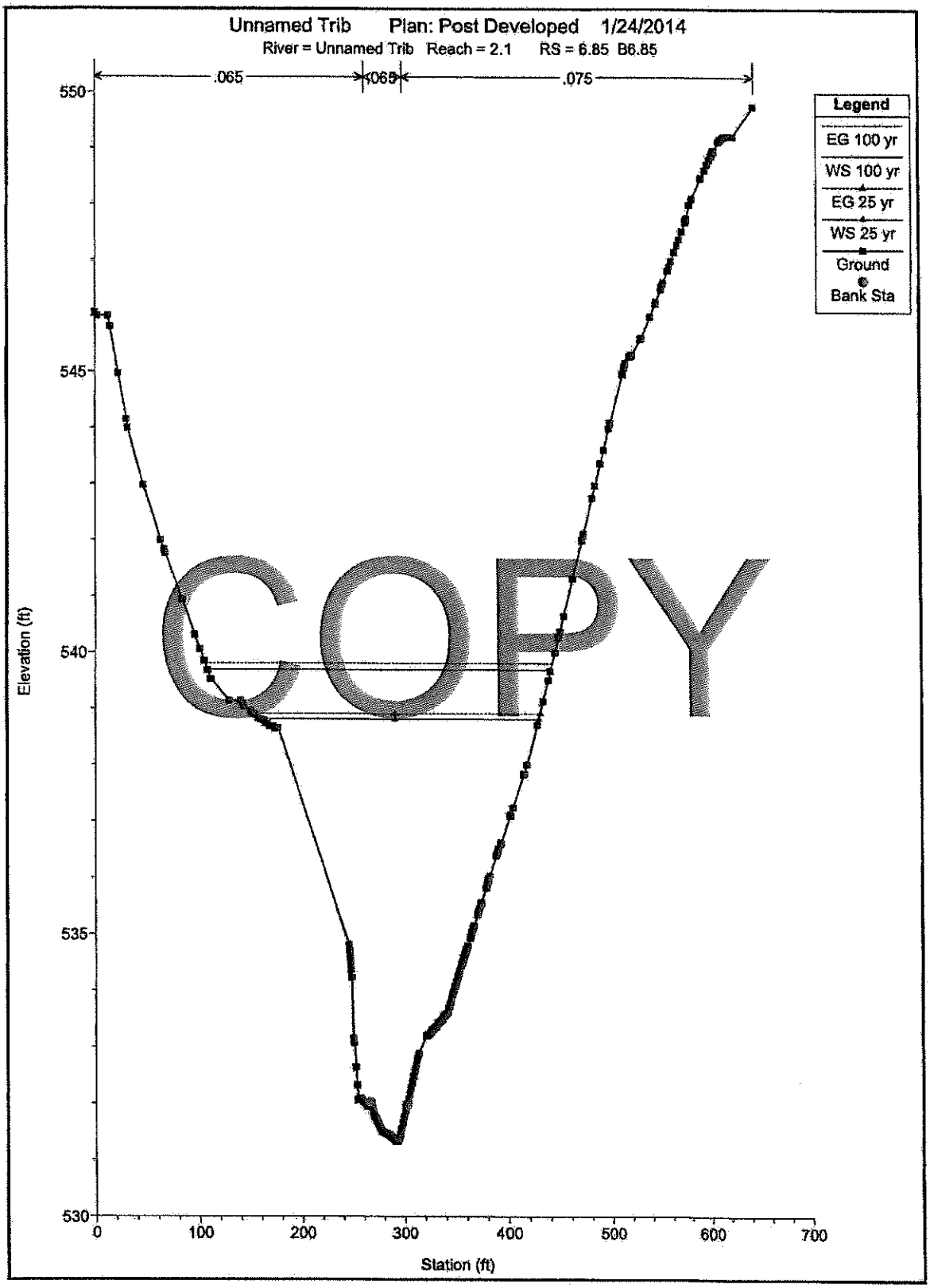

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 5.10 B5.10
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
536
534
532
530
528
526
524
522
100
200
300
400
500
600
700
Station (ft)
COPY

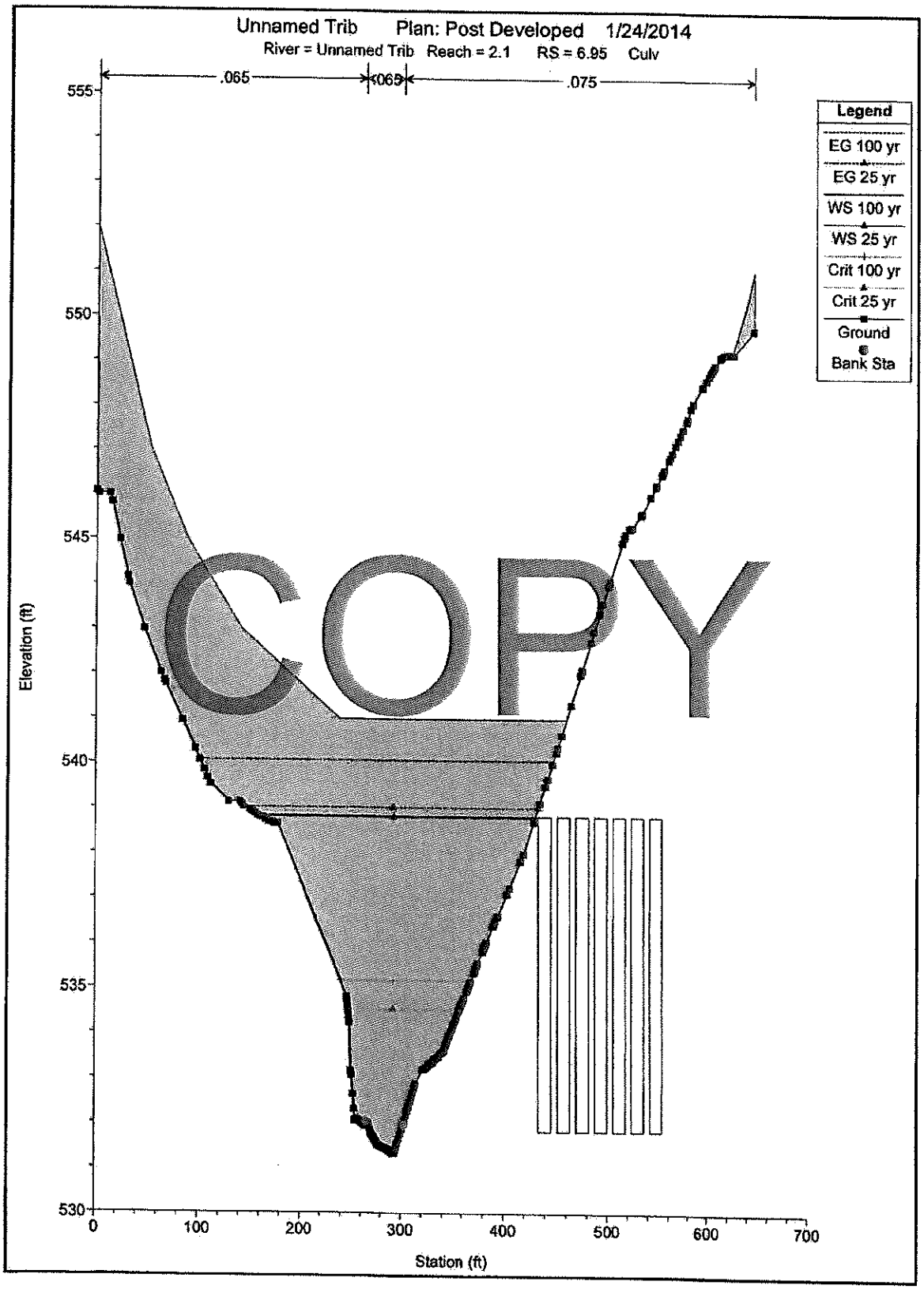

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 5.38 B5.38
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
538
536
534
532
530
528
526
524
Elevation (ft)
100
200
300
400
500
600
Station (ft)
COPY

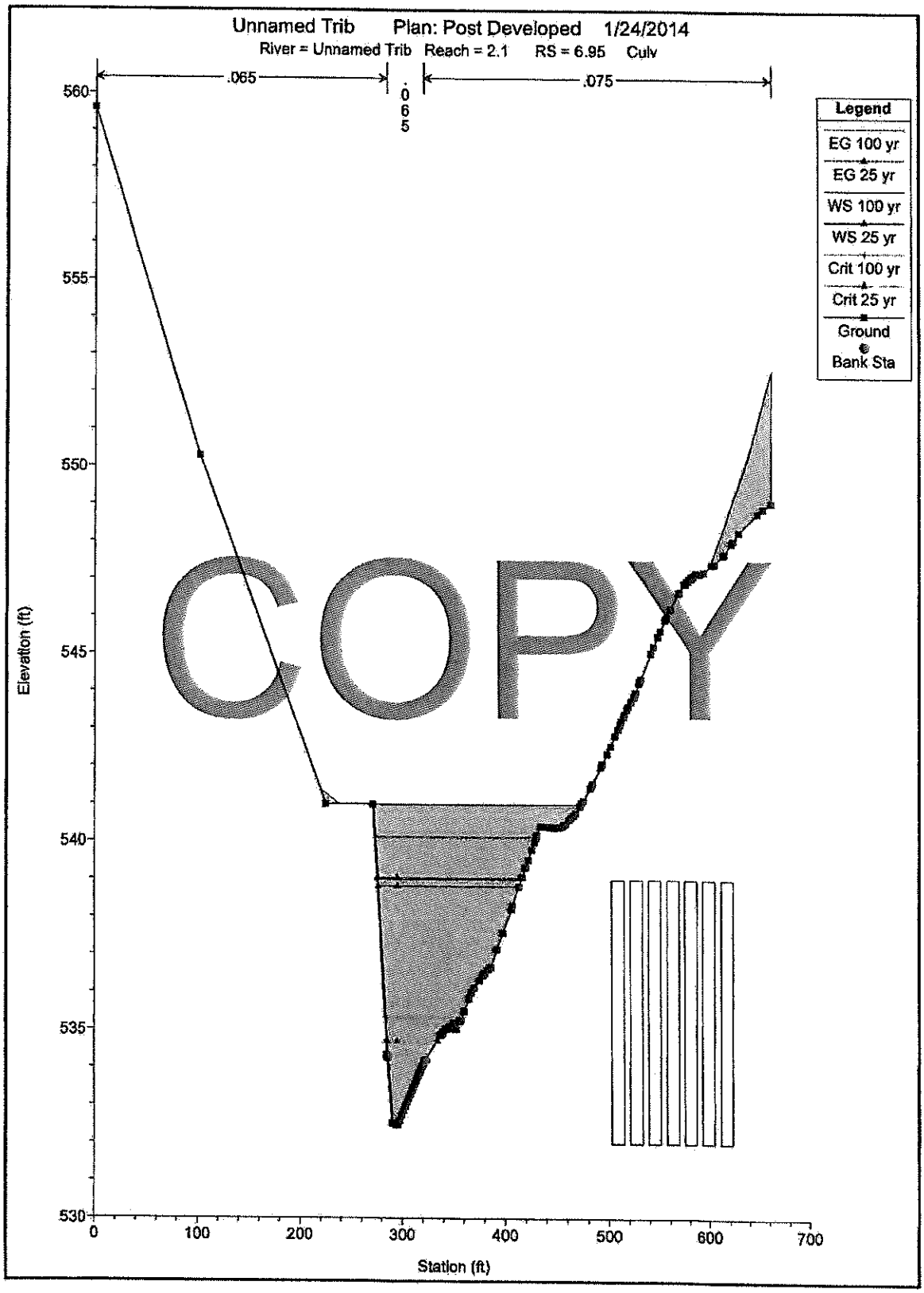

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 5.83 B5.83
.085
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
538
536
534
532
530
528
526
Elevation (ft)
100
200
300
400
500
600
Station (ft)

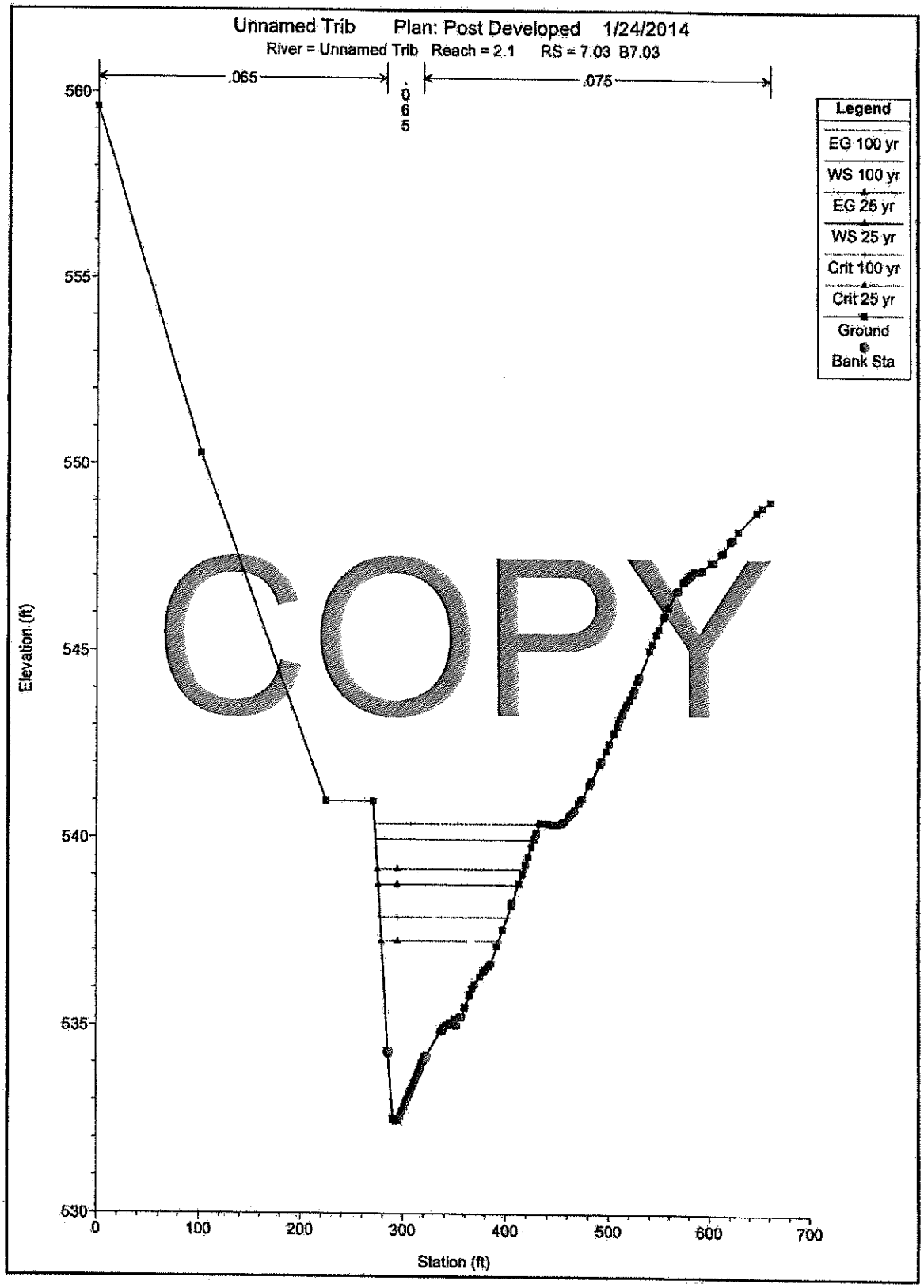

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 6.33 B6.33
.085
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
544
542
540
538
536
534
532
530
Elevation (ft)
0
100
200
300
400
500
Station (ft)
COPY

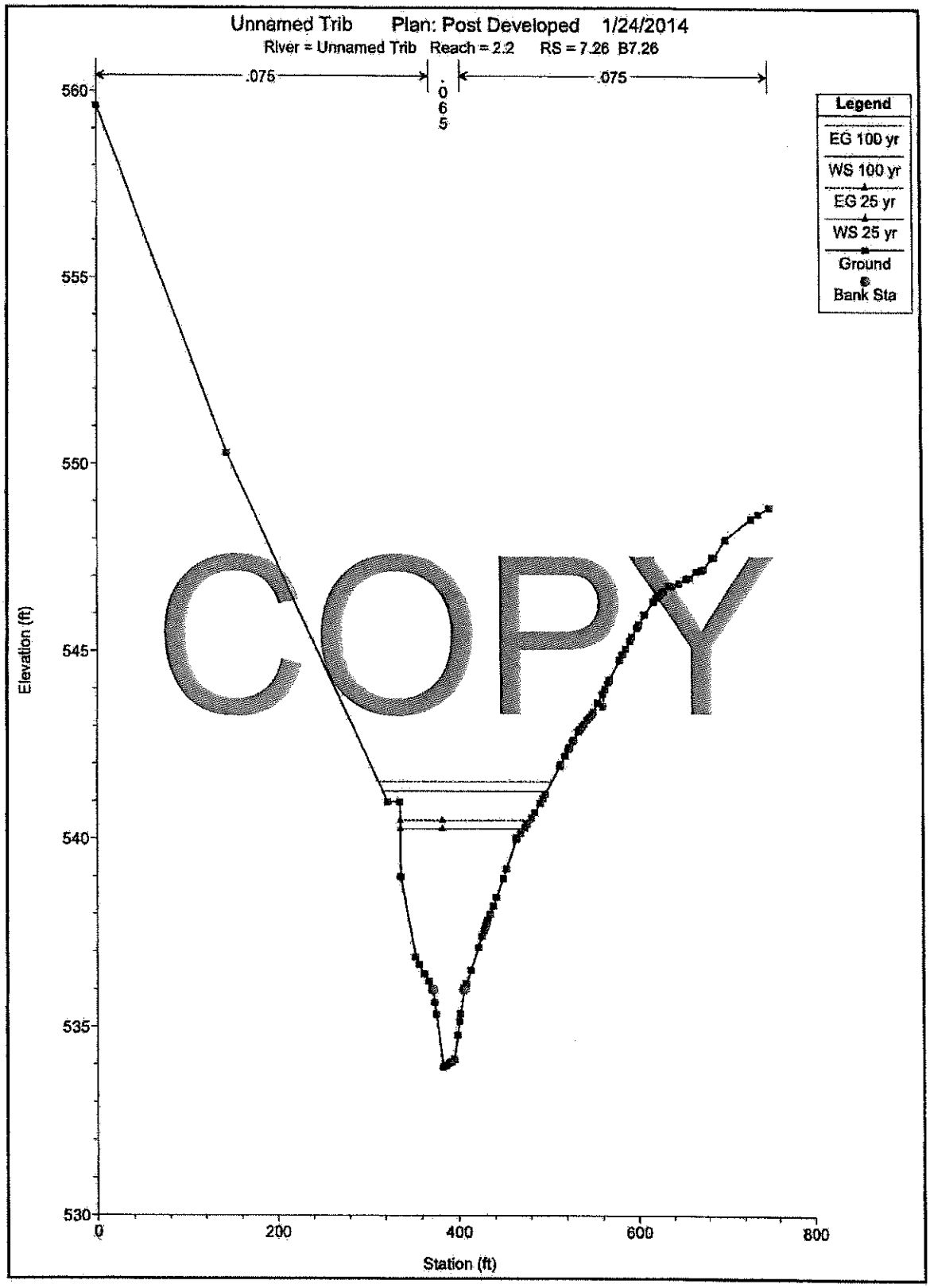

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 6.57 B6.57
.09
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
544
542
540
538
536
534
532
530
0
100
200
300
400
500
600
COPY

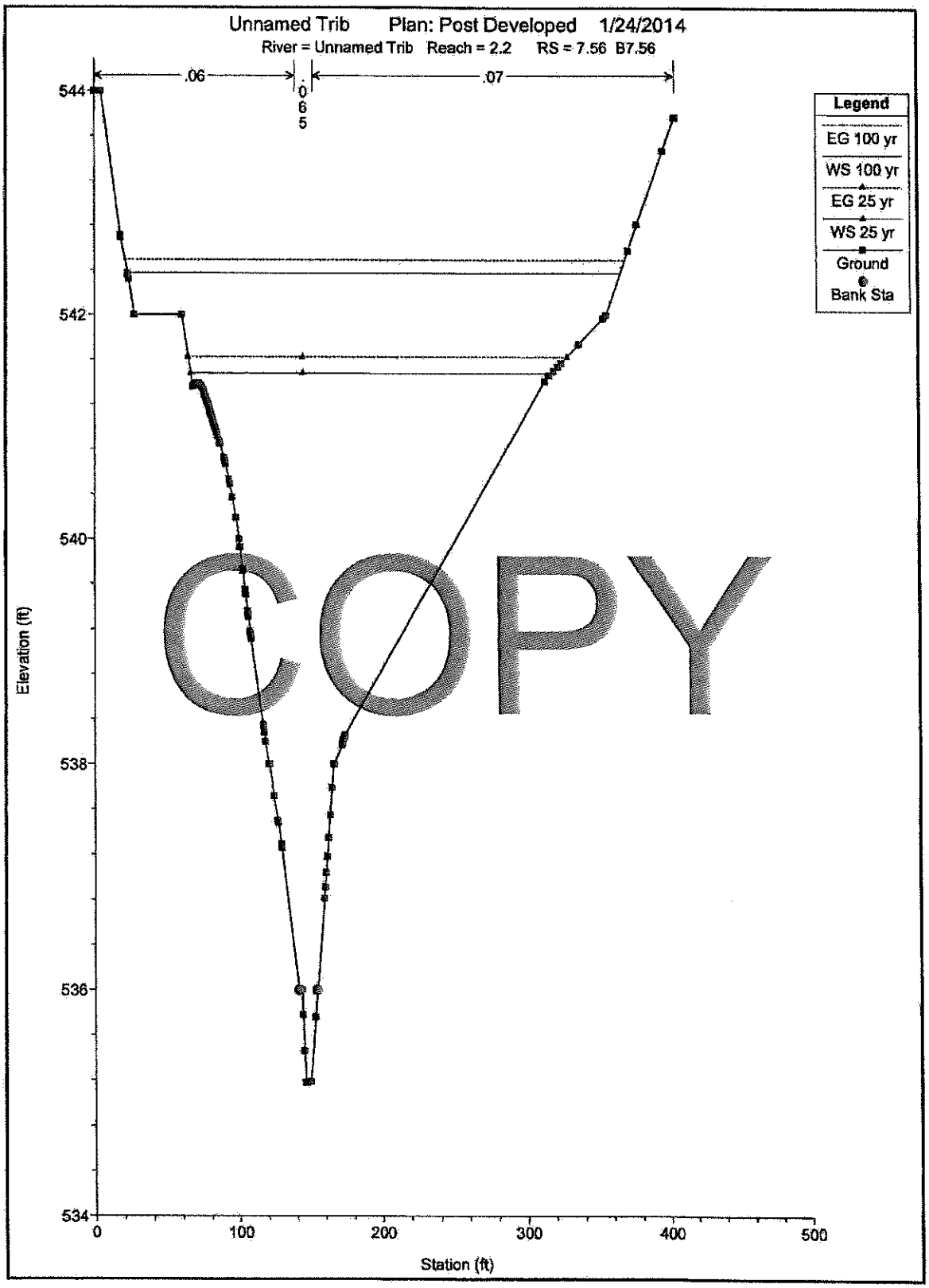

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 6.85 B6.85
.065
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
550
545
540
535
530
0
100
200
300
400
500
600
700
Station (ft)
COPY

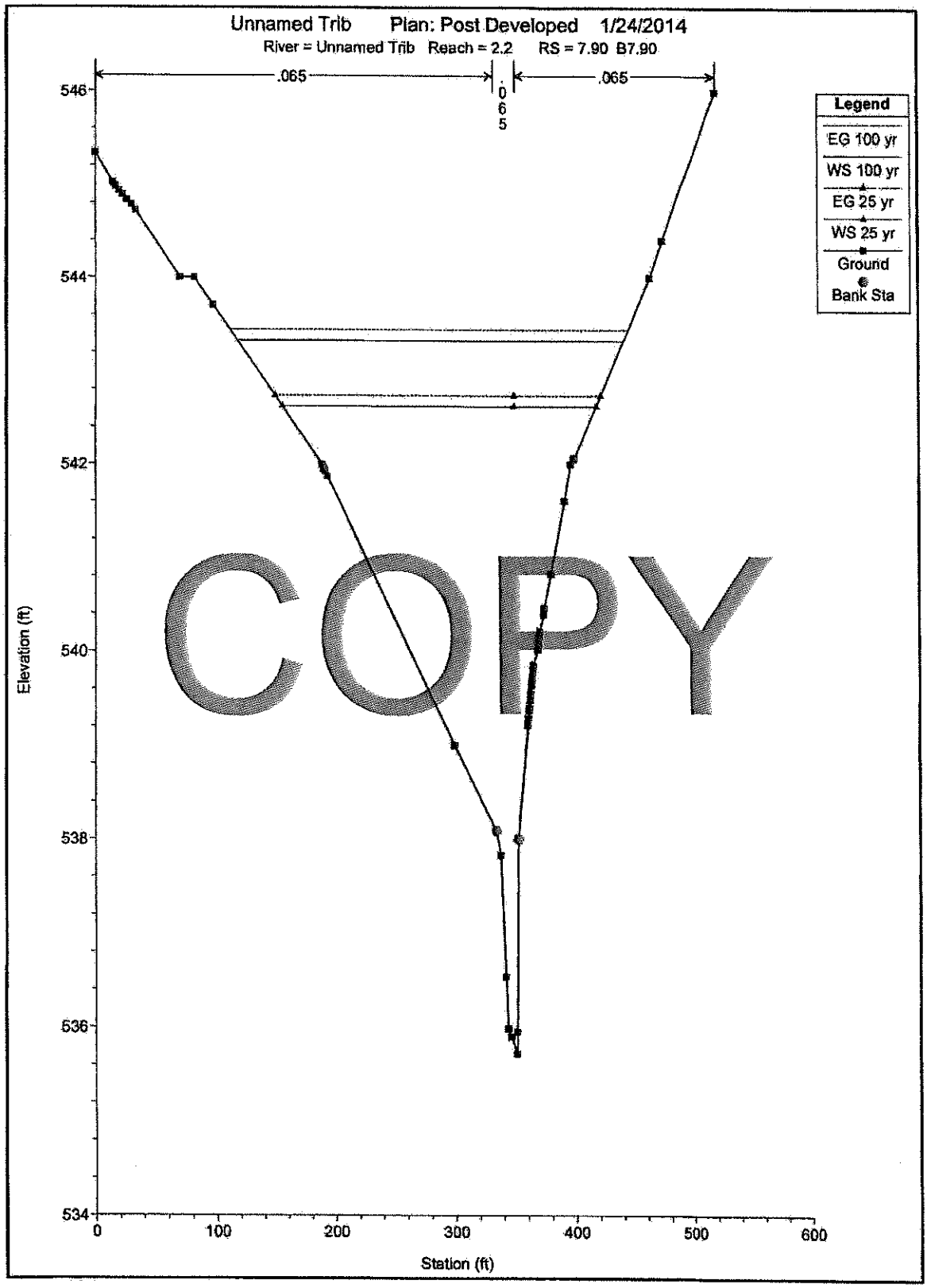

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 6.95 Culv
.065
.065
.075
Legend
EG 100 yr
EG 25 yr
WS 100 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
555
550
545
540
535
530
0
100
200
300
400
500
600
700
Station (ft)

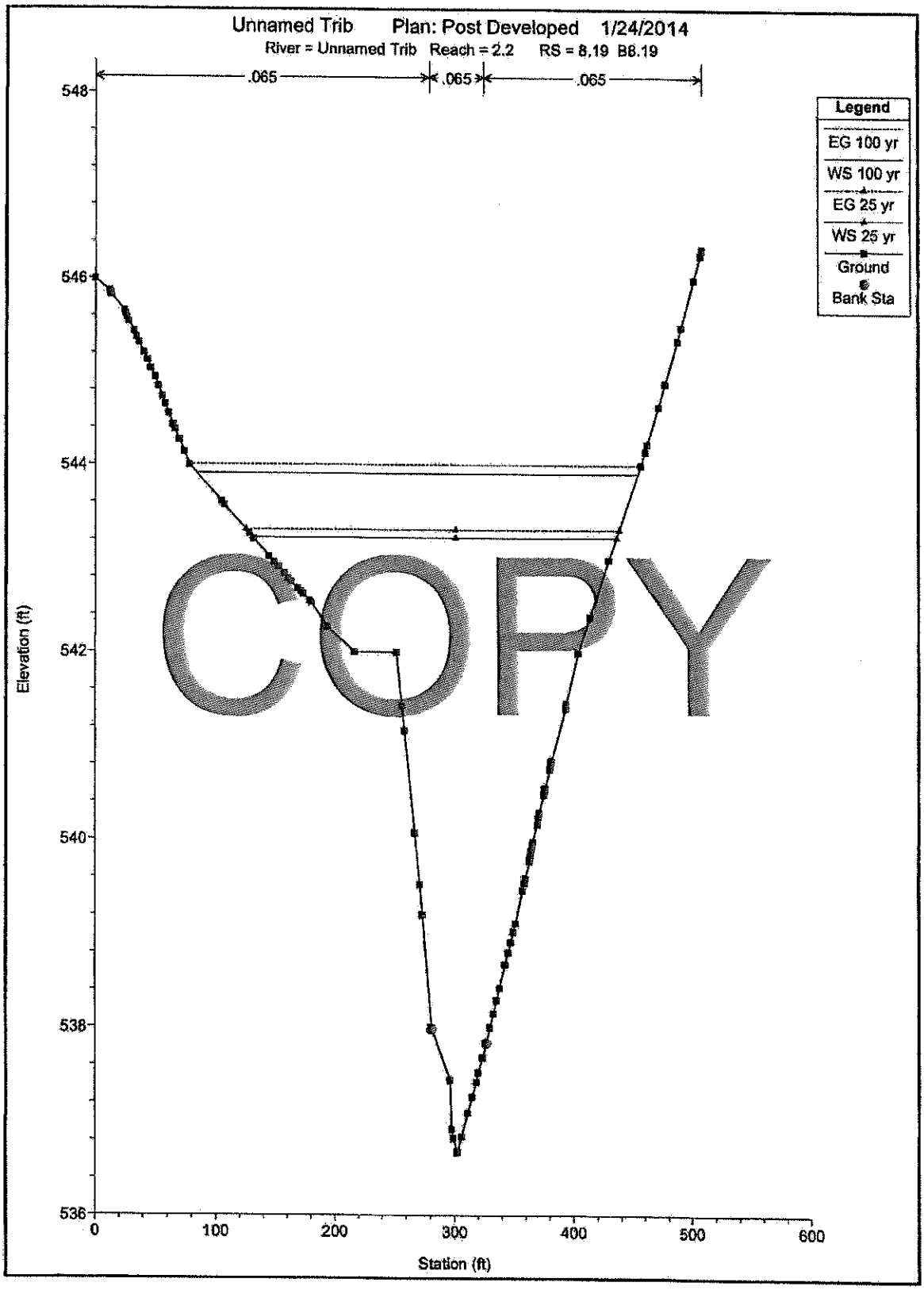

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 6.95 Culv
.065
.065
.075
Legend
EG 100 yr
EG 25 yr
WS 100 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
560
555
550
545
540
535
530
0
100
200
300
400
500
600
700
Station (ft)

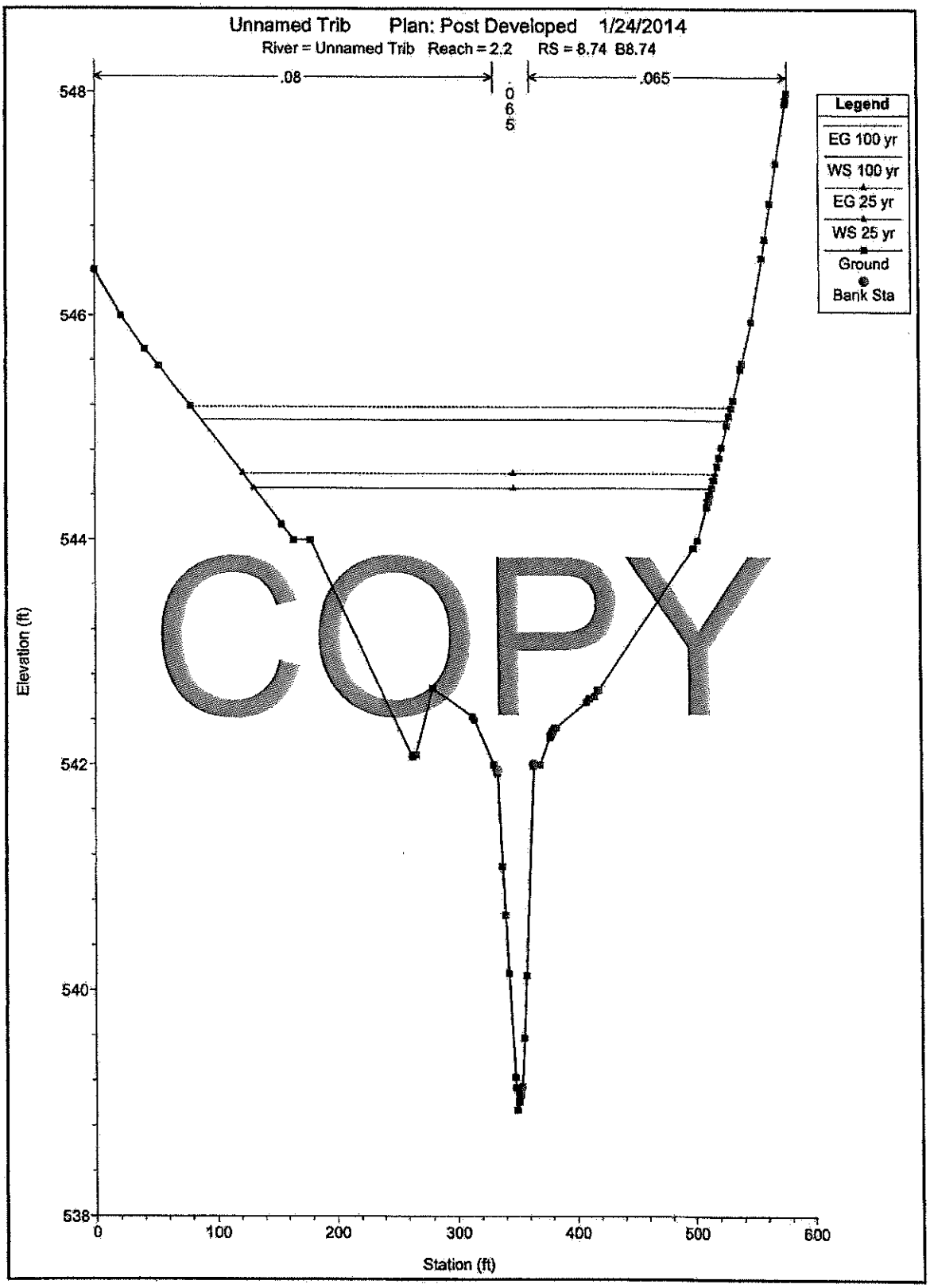

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.1 RS = 7.03 B7.03
.065
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
560
555
550
545
540
535
530
0
100
200
300
400
500
600
700
Station (ft)

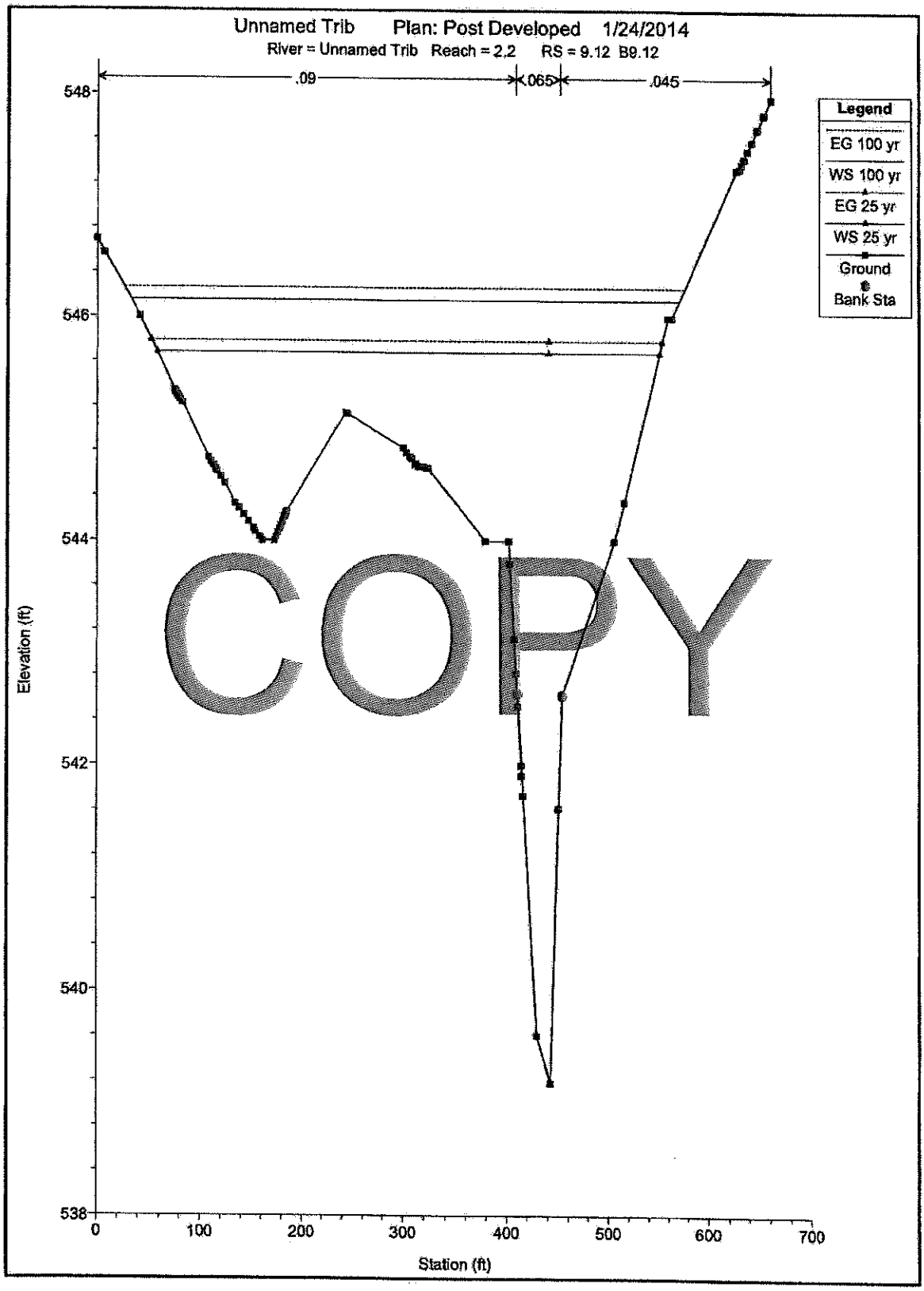

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 7.26 B7.26
.075
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
560
555
550
545
540
535
530
0
200
400
600
800
Station (ft)

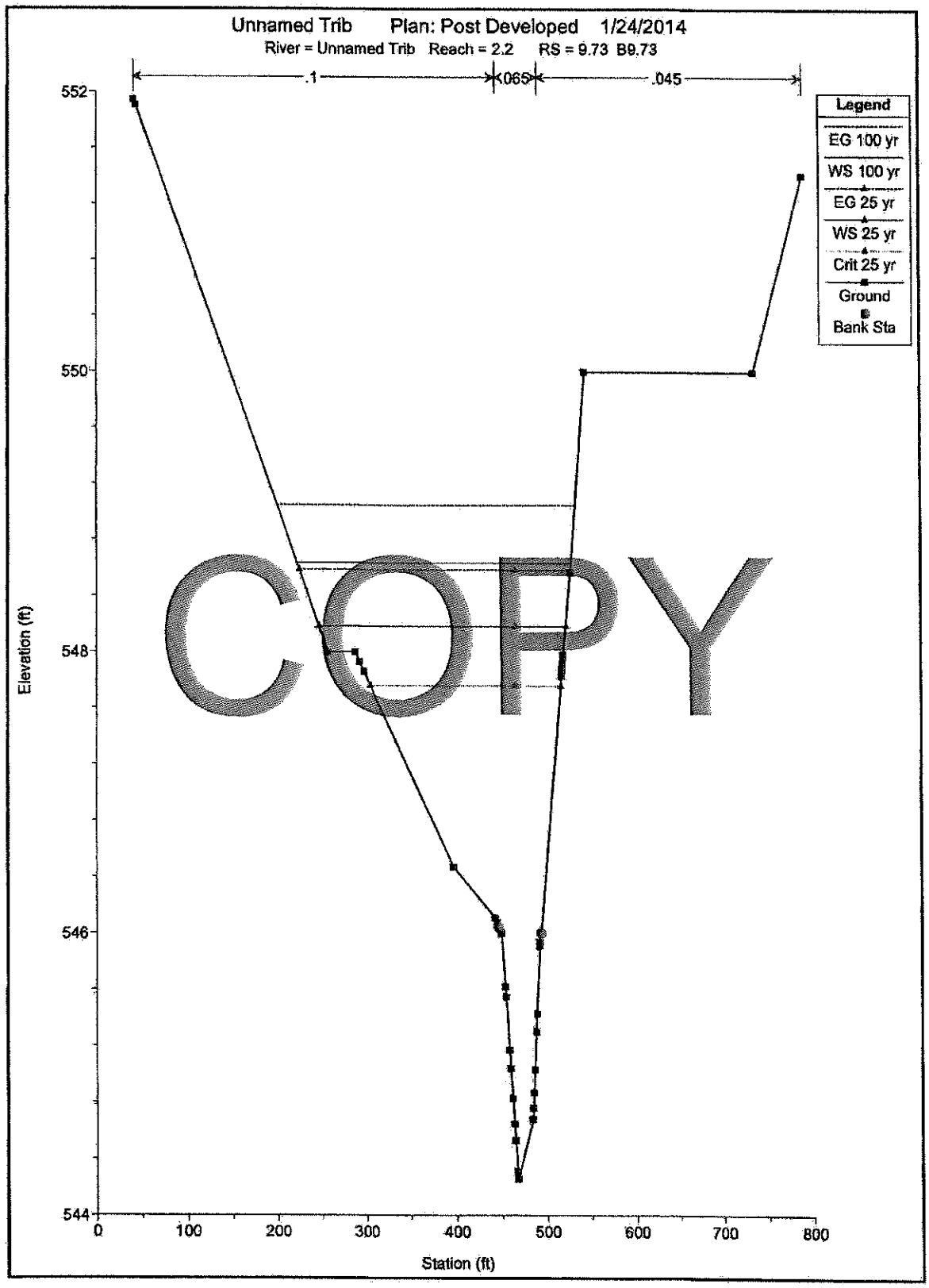

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 7.56 B7.56
.06
.07
.065
544
542
540
538
536
534
Elevation (ft)
0
100
200
300
400
500
Station (ft)
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
COPY

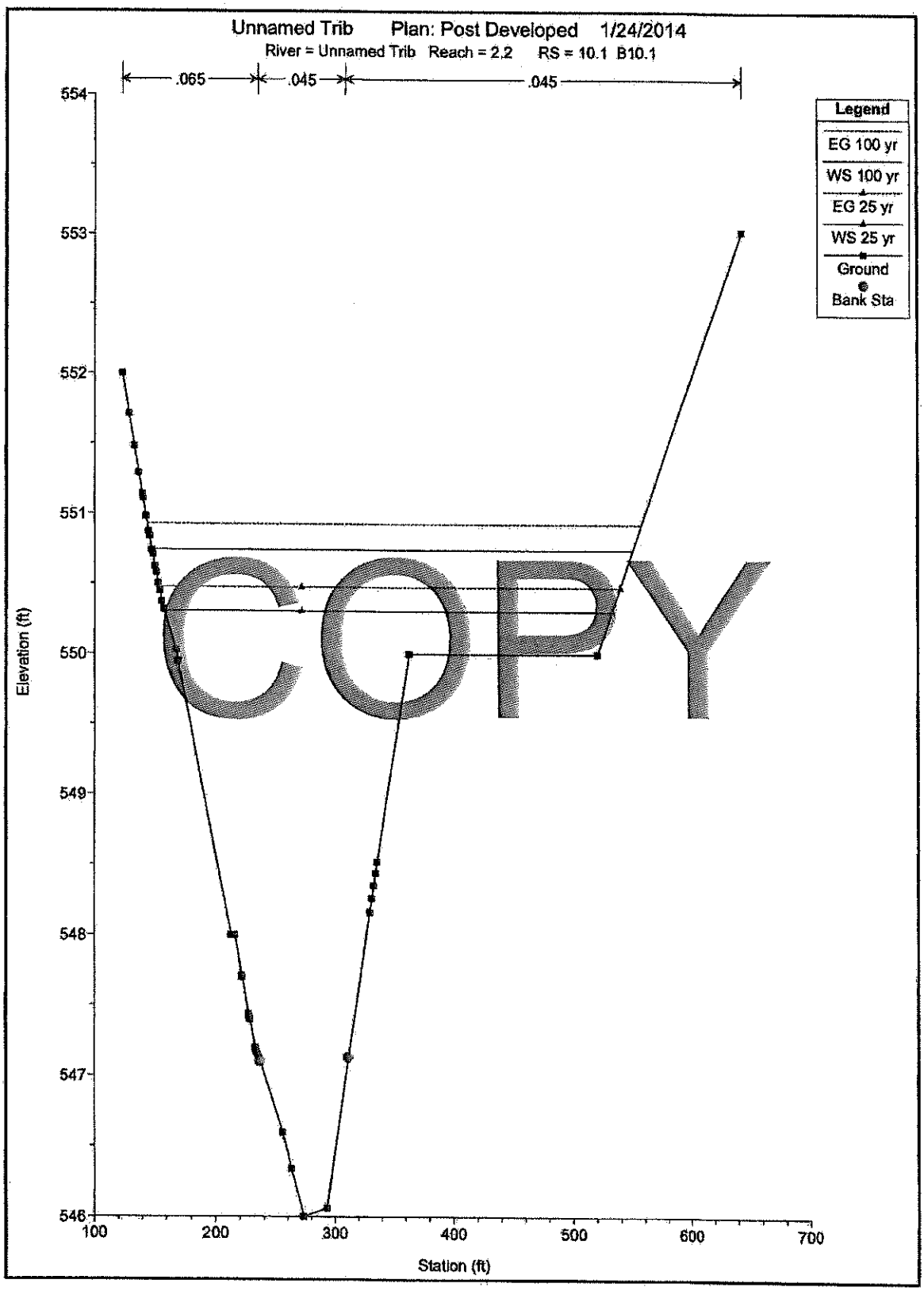

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 7.90 B7.90
.065
.065
.065
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
546
544
542
540
538
536
534
Elevation (ft)
0
100
200
300
400
500
600
Station (ft)
COPY

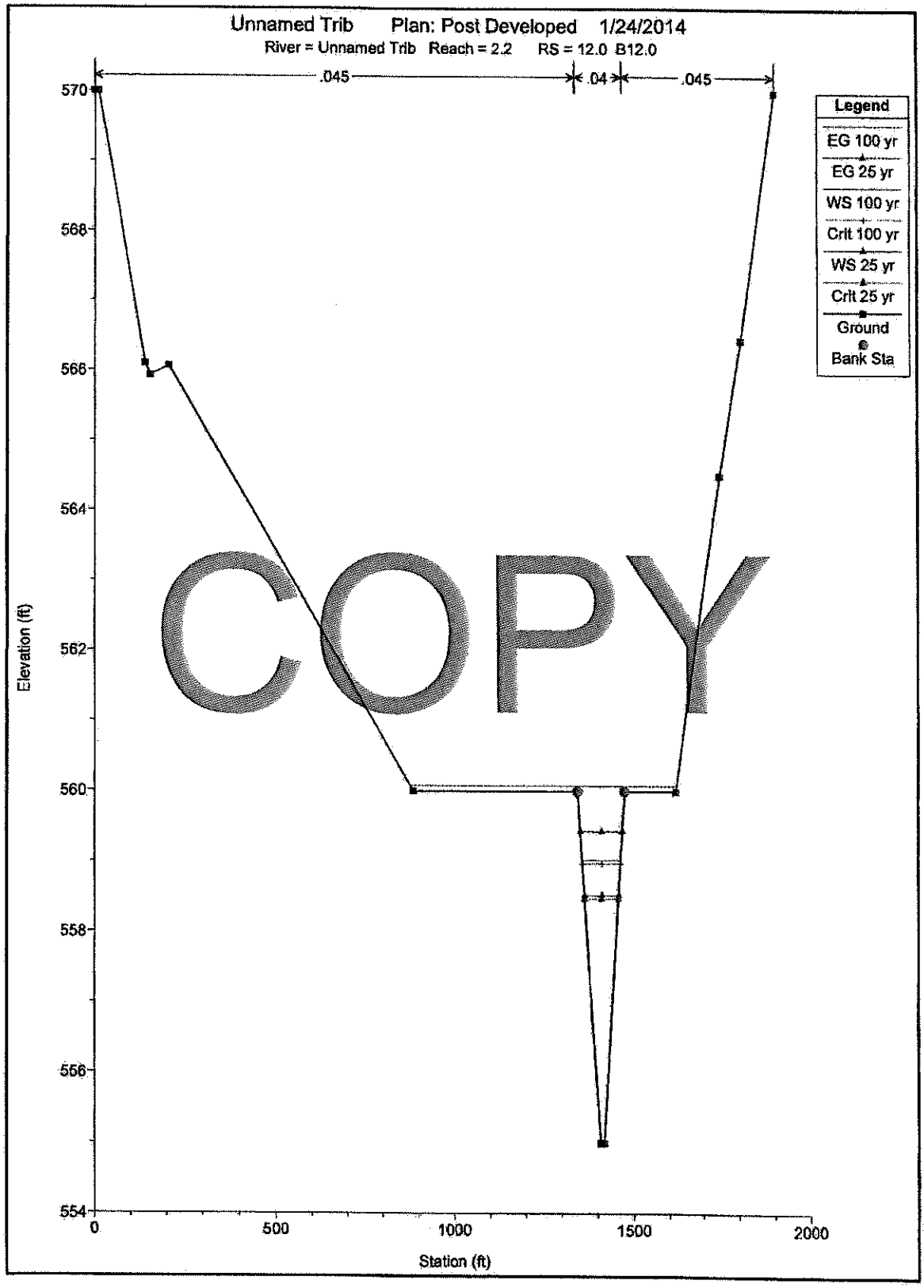

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 8.19 BB.19
.065
.065
.065
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
548
546
544
542
540
538
536
Elevation (ft)
0
100
200
300
400
500
600
Station (ft)
COPY

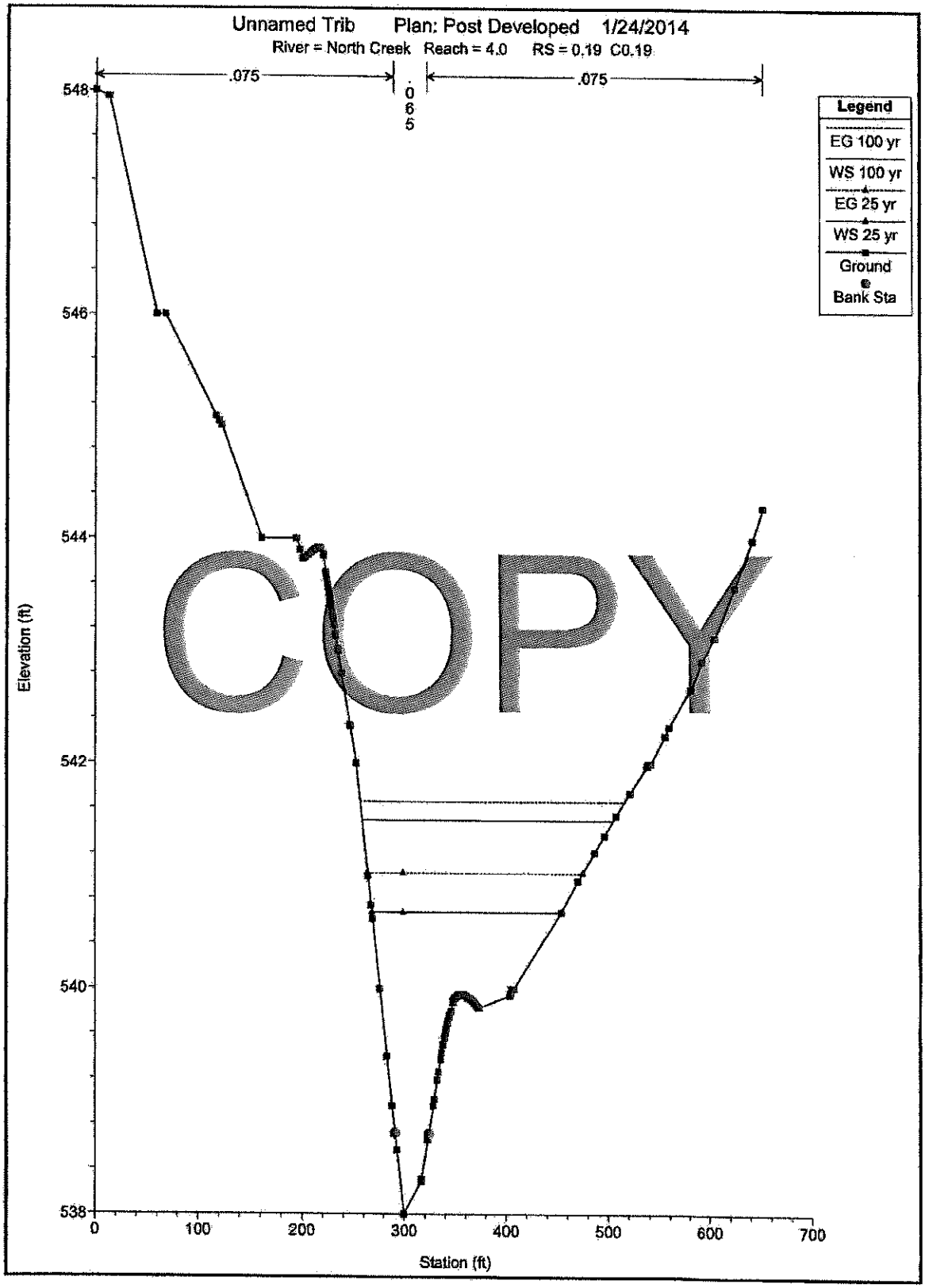

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 8.74 B8.74
.08
.065
.065
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
548
546
544
542
540
538
Elevation (ft)
0
100
200
300
400
500
600
Station (ft)
COPY

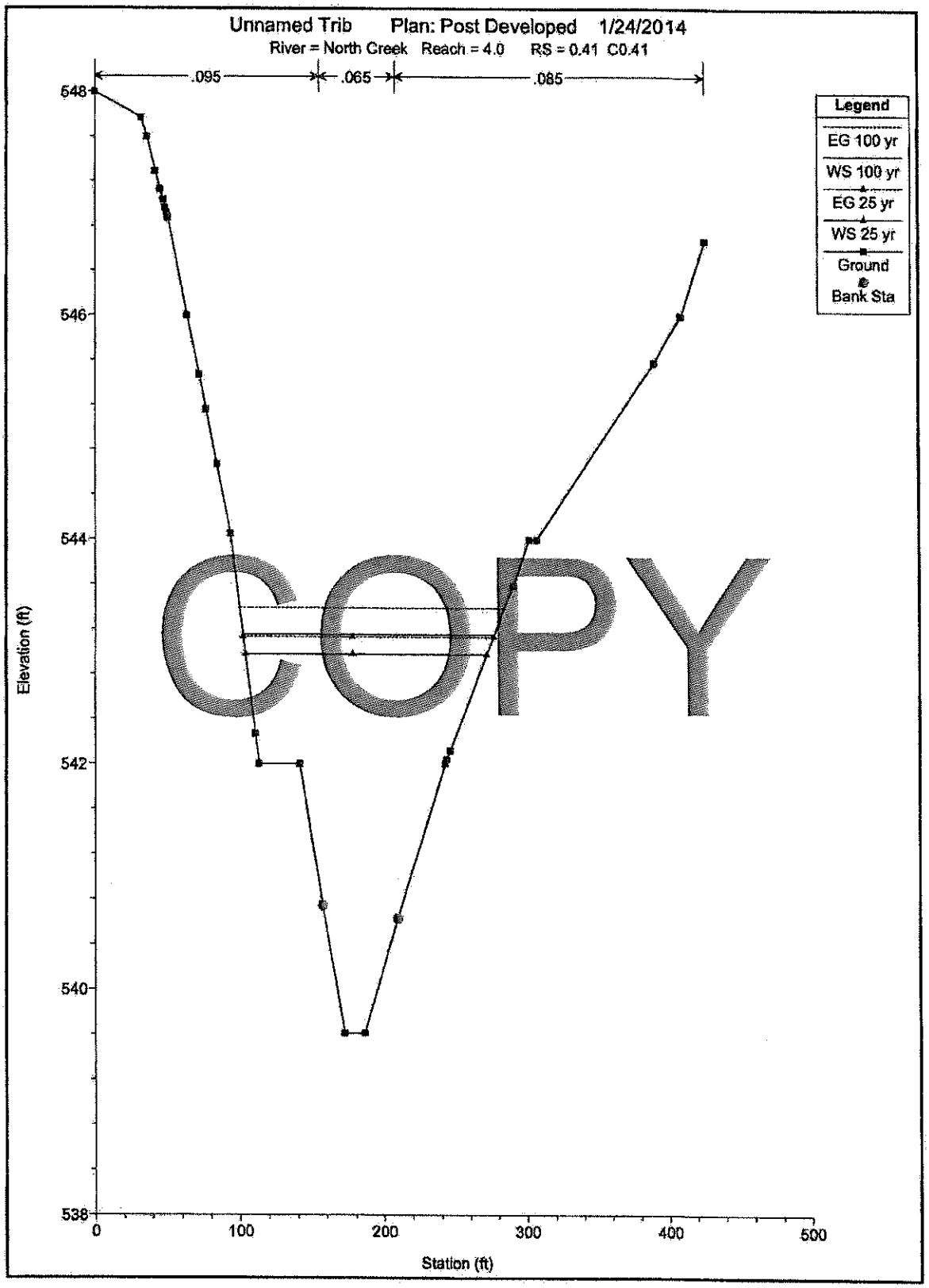

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2,2 RS = 9.12 B9.12
.09
.065
.045
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
548
546
544
542
540
538
Elevation (ft)
0
100
200
300
400
500
600
700
Station (ft)
COPY

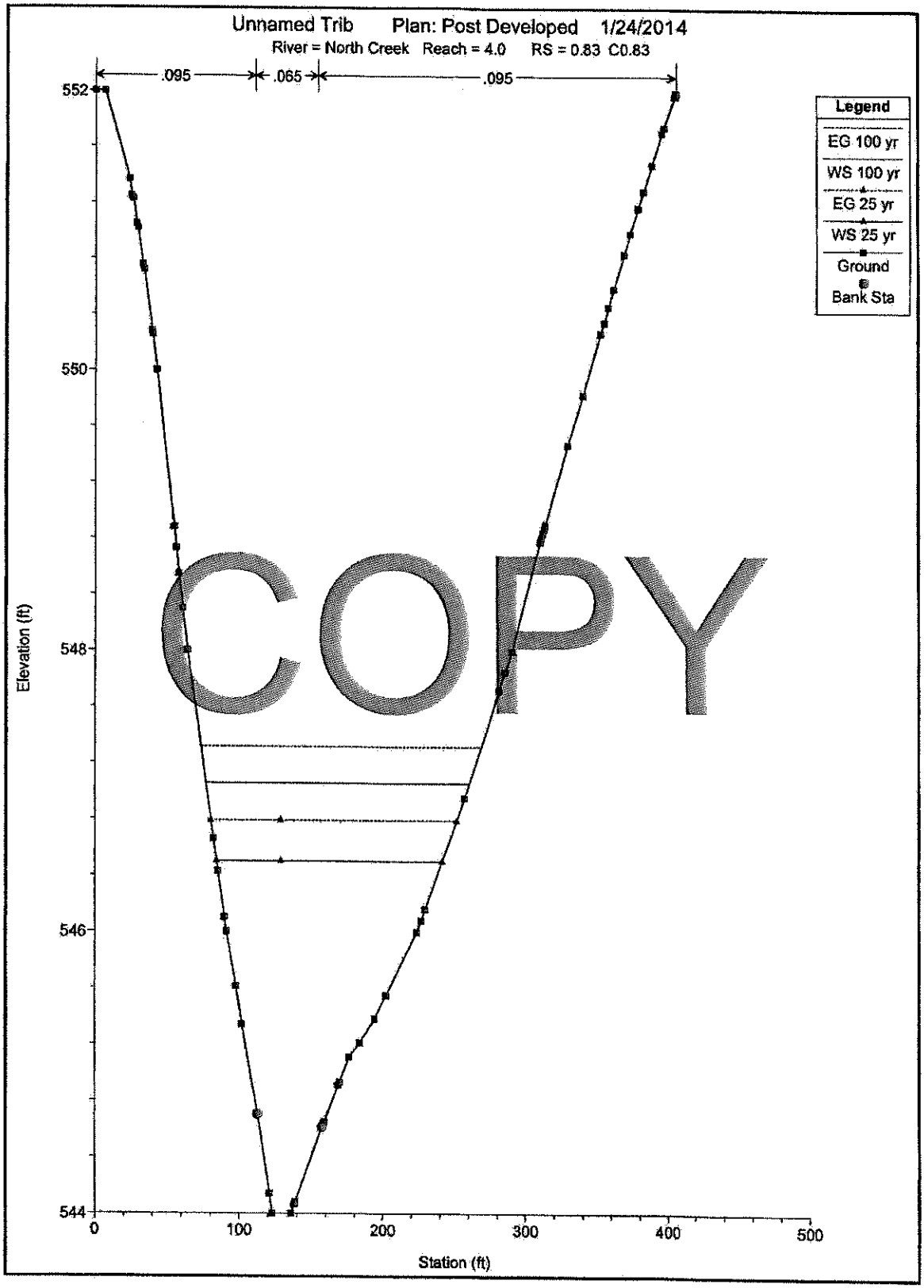

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 9.73 B9.73
.1
.065
.045
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
552
550
548
546
544
Elevation (ft)
0
100
200
300
400
500
600
700
800
Station (ft)

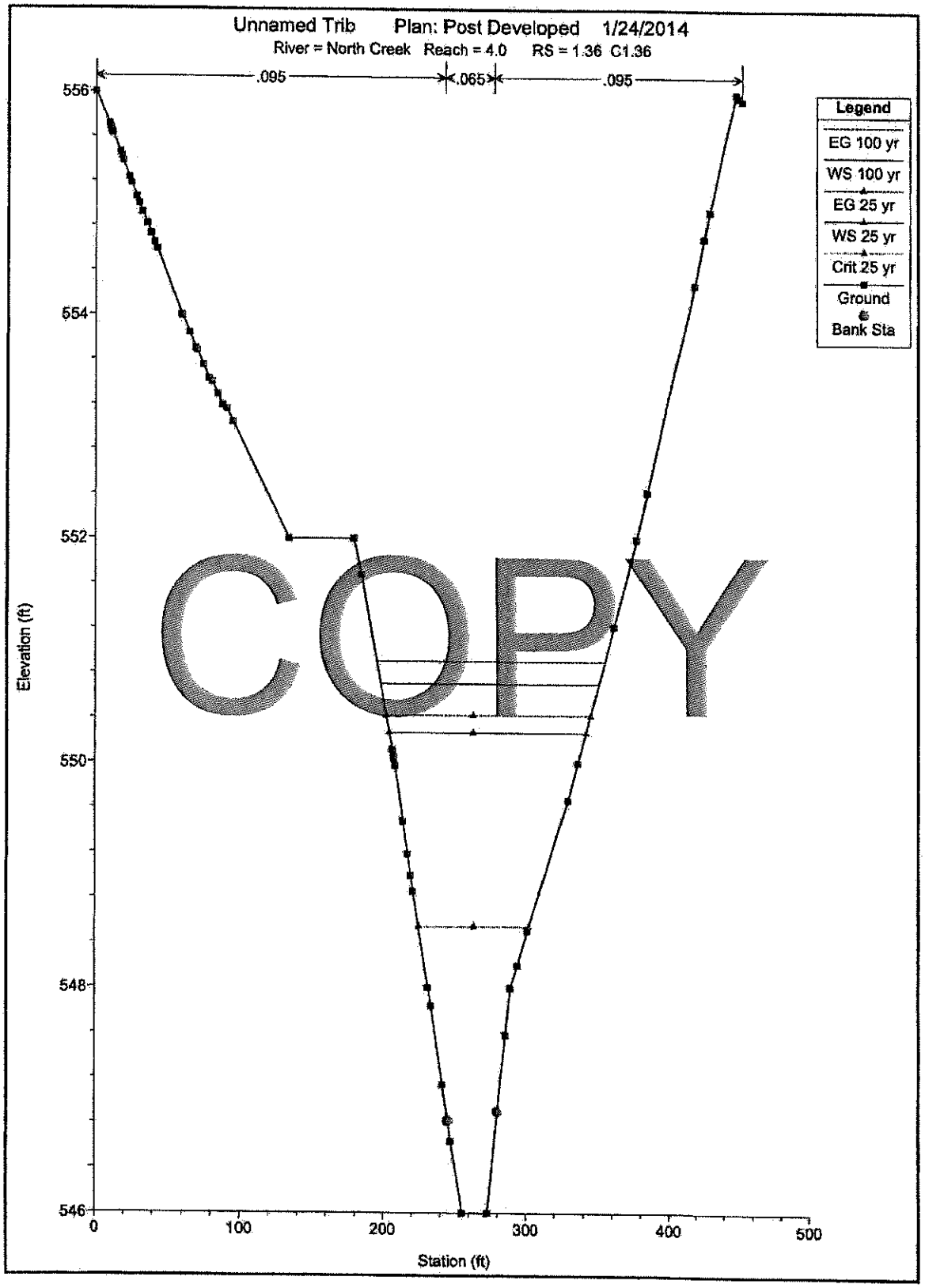

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 10.1 B10.1
.065
.045
.045
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
554
553
552
551
550
549
548
547
546
100
200
300
400
500
600
700
COPY

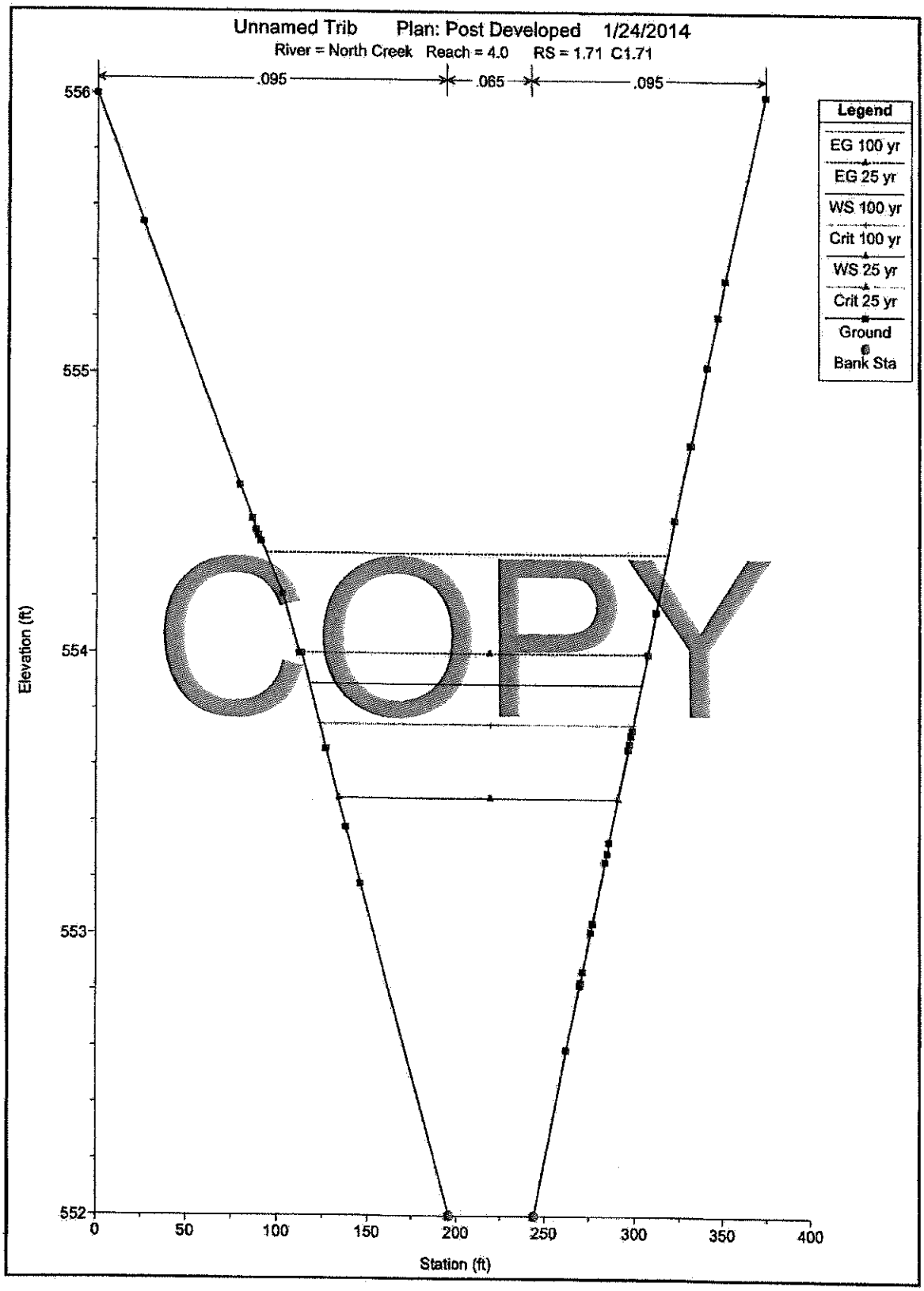

Unnamed Trib Plan: Post Developed 1/24/2014
River = Unnamed Trib Reach = 2.2 RS = 12.0 B12.0
.045
.04
.045
Legend
EG 100 yr
EG 25 yr
WS 100 yr
Crit 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
570
568
566
564
562
560
558
556
554
Elevation (ft)
0
500
1000
1500
2000
Station (ft)

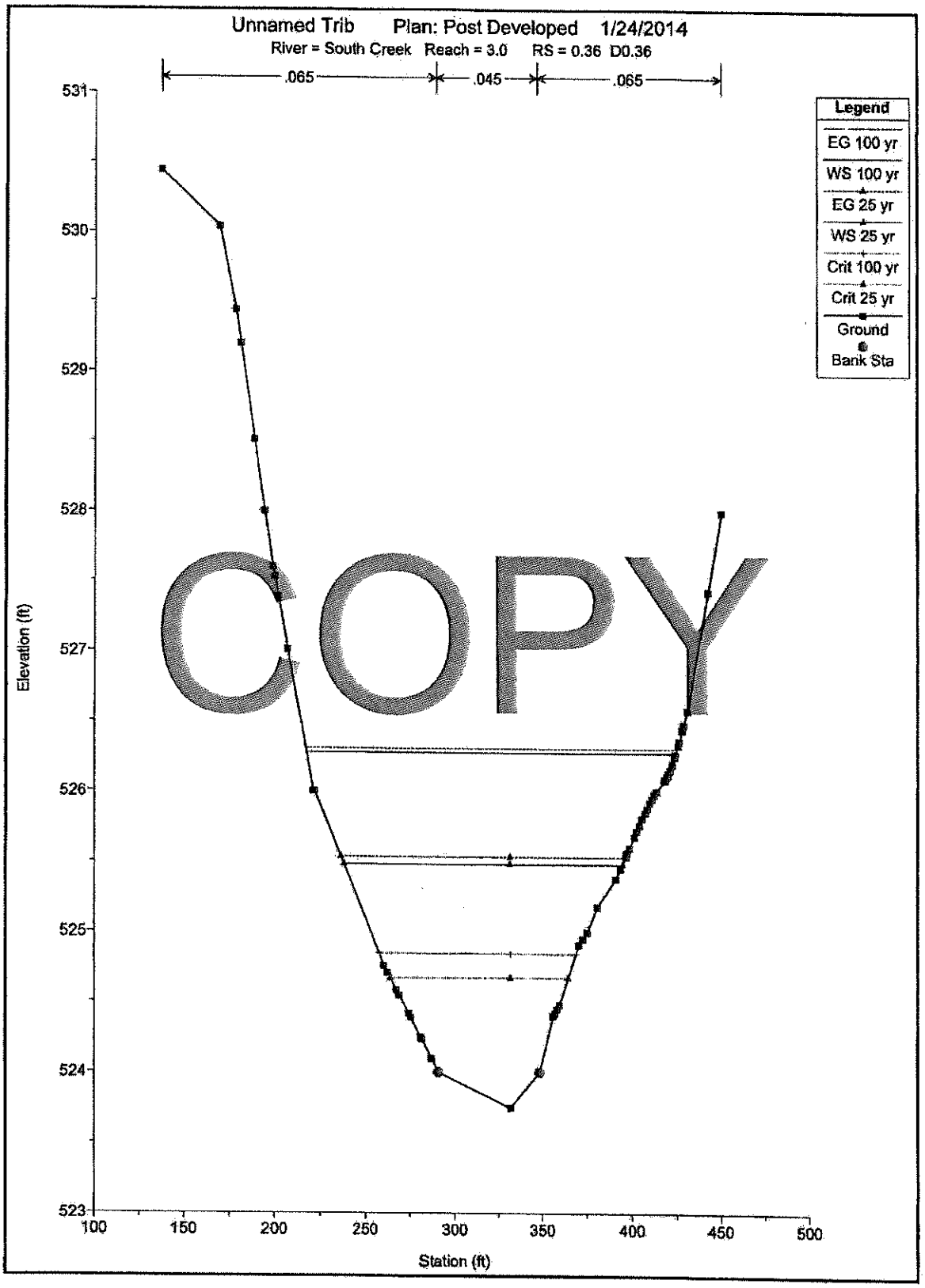

Unnamed Trib Plan: Post Developed 1/24/2014
River = North Creek Reach = 4.0 RS = 0.19 C0.19
.075
.065
.075
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
548
546
544
542
540
538
Elevation (ft)
0
100
200
300
400
500
600
700
Station (ft)
COPY

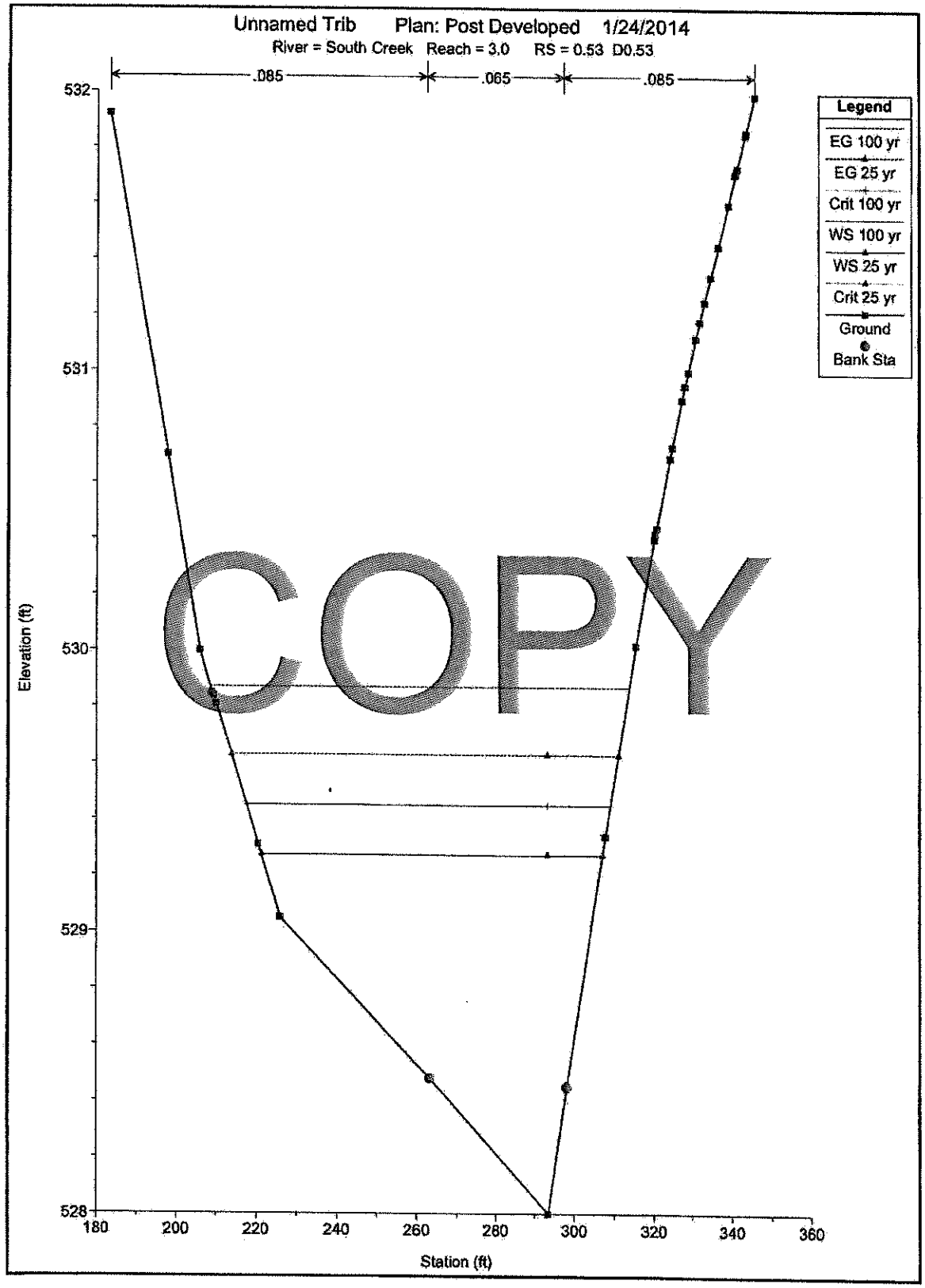

Unnamed Trib Plan: Post Developed 1/24/2014
River = North Creek Reach = 4.0 RS = 0.41 C0.41
.095
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
548
546
544
542
540
538
Elevation (ft)
0
100
200
300
400
500
Station (ft)
COPY

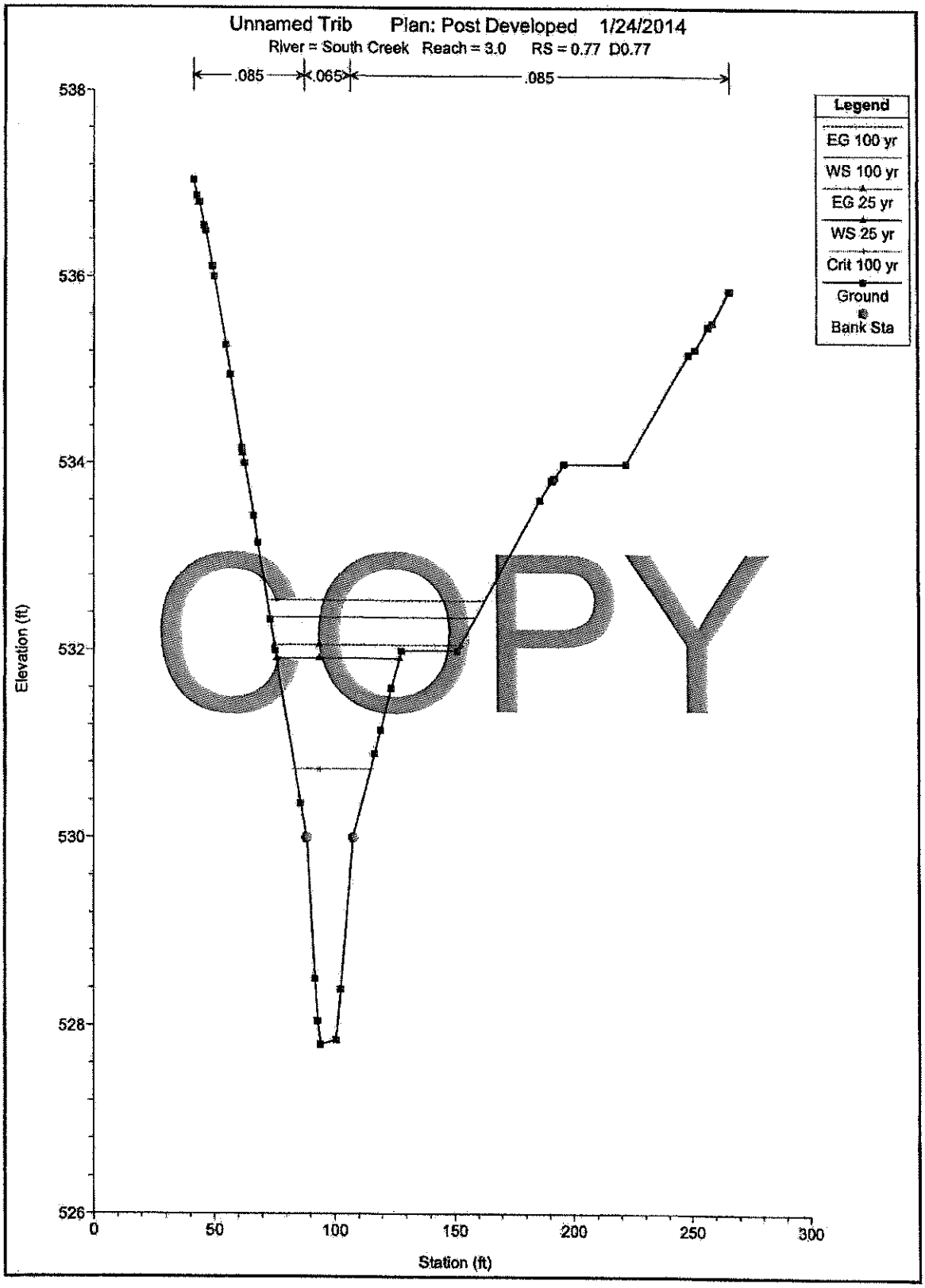

Unnamed Trib Plan: Post Developed 1/24/2014
River = North Creek Reach = 4.0 RS = 0.83 C0.83
.095
.065
.095
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
552
550
548
546
544
Elevation (ft)
0
100
200
300
400
500
Station (ft)
COPY

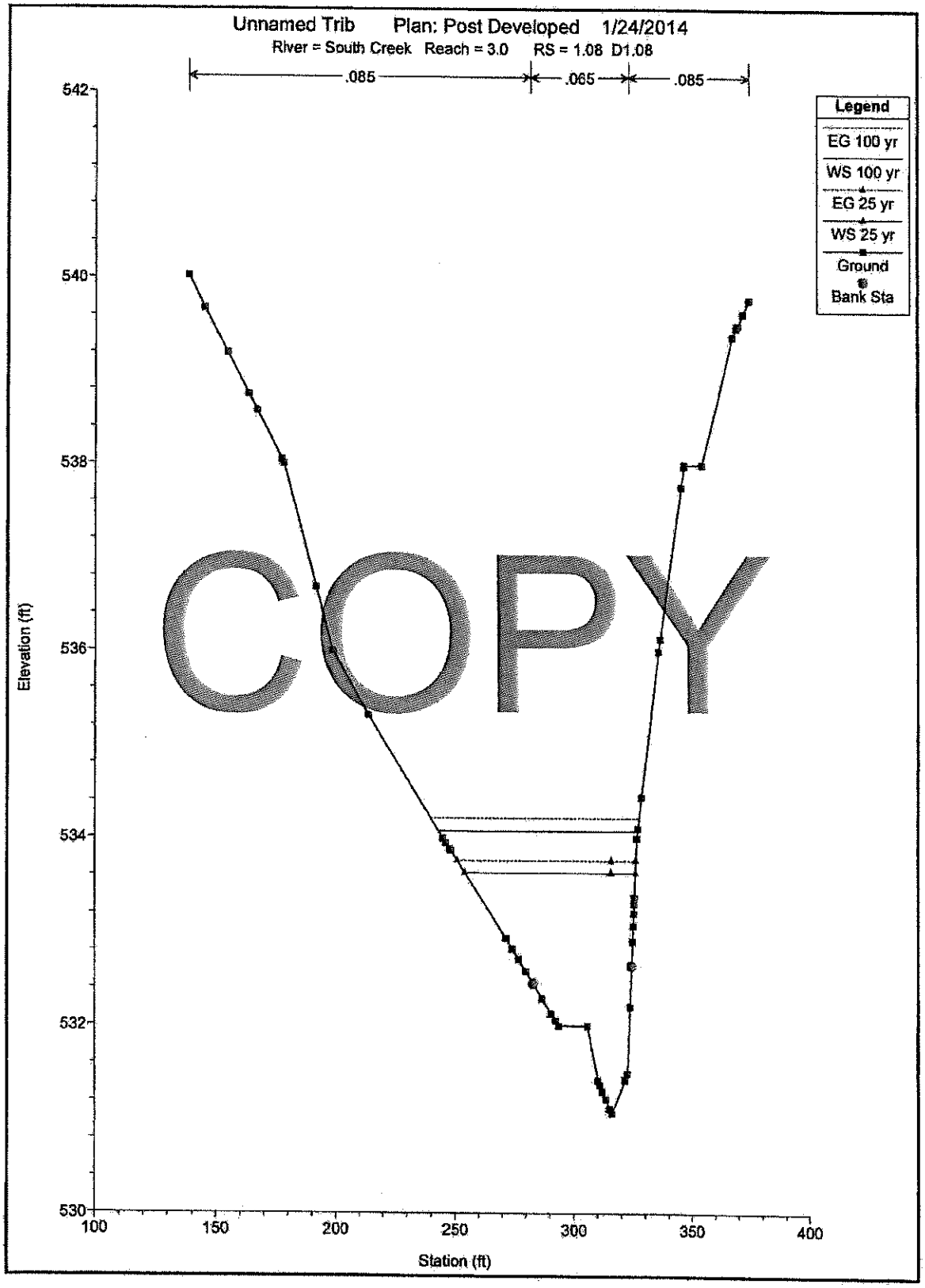

Unnamed Trib Plan: Post Developed 1/24/2014
River = North Creek Reach = 4.0 RS = 1.36 C1.36
.095
.065
.095
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
556
554
552
550
548
546
0
100
200
300
400
500
Station (ft)

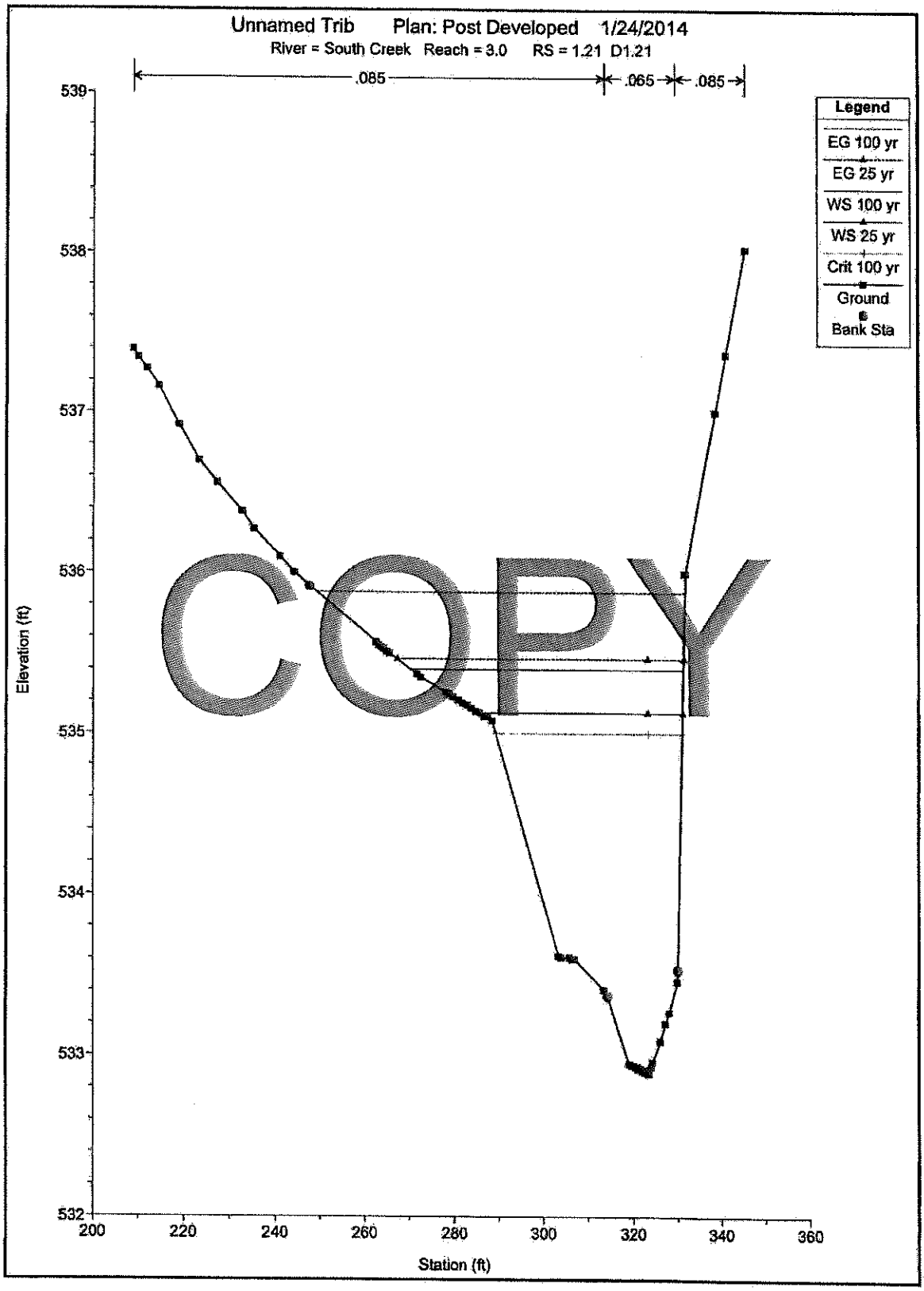

Unnamed Trib Plan: Post Developed 1/24/2014
River = North Creek Reach = 4.0 RS = 1.71 C1.71
.095
.065
.095
Legend
EG 100 yr
EG 25 yr
WS 100 yr
Crit 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
556
555
554
553
552
Elevation (ft)
0
50
100
150
200
250
300
350
400
Station (ft)

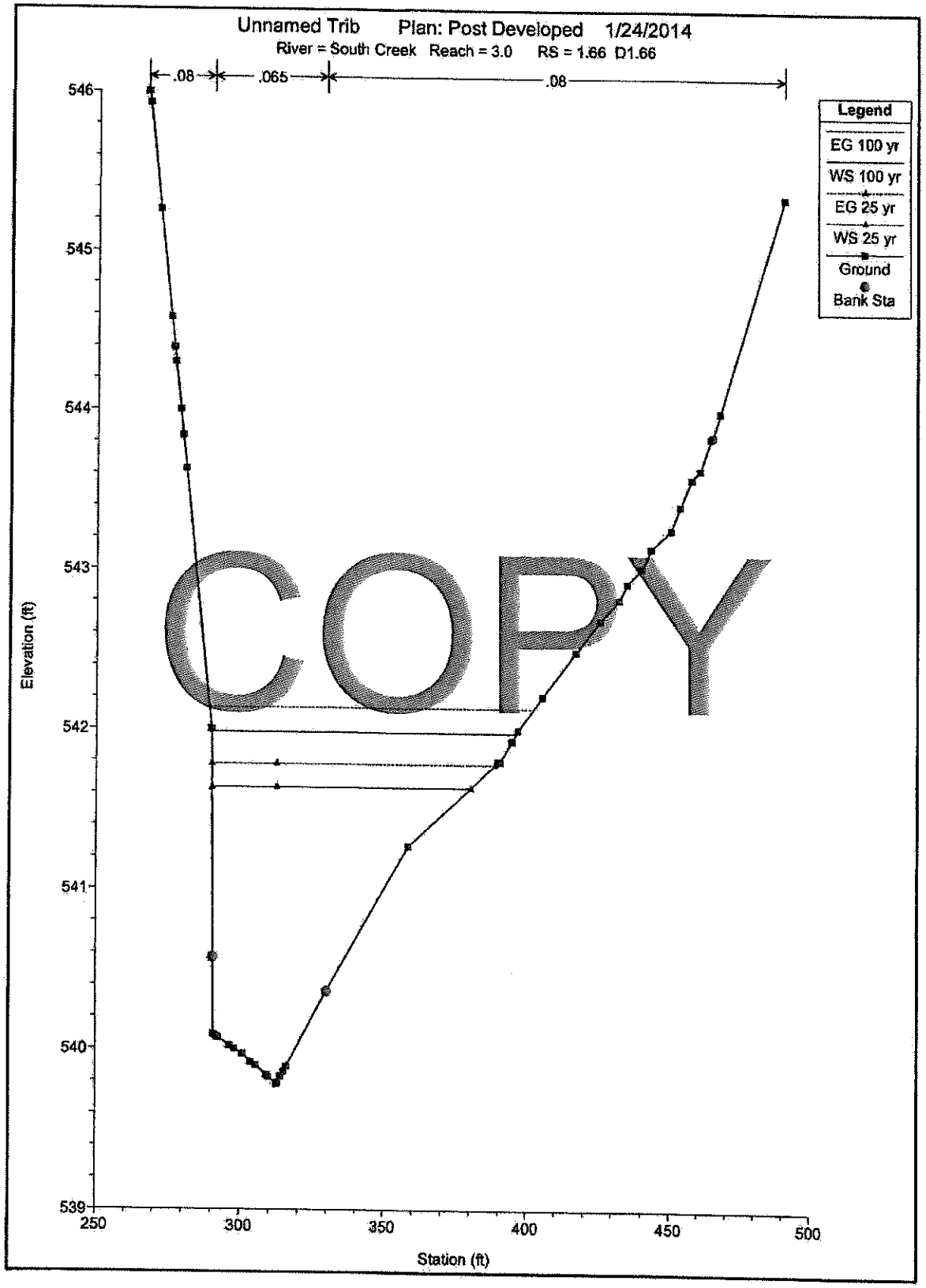

Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 0.36 D0.36
.065
.045
.065
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
531
530
529
528
527
526
525
524
523
100
150
200
250
300
350
400
450
500

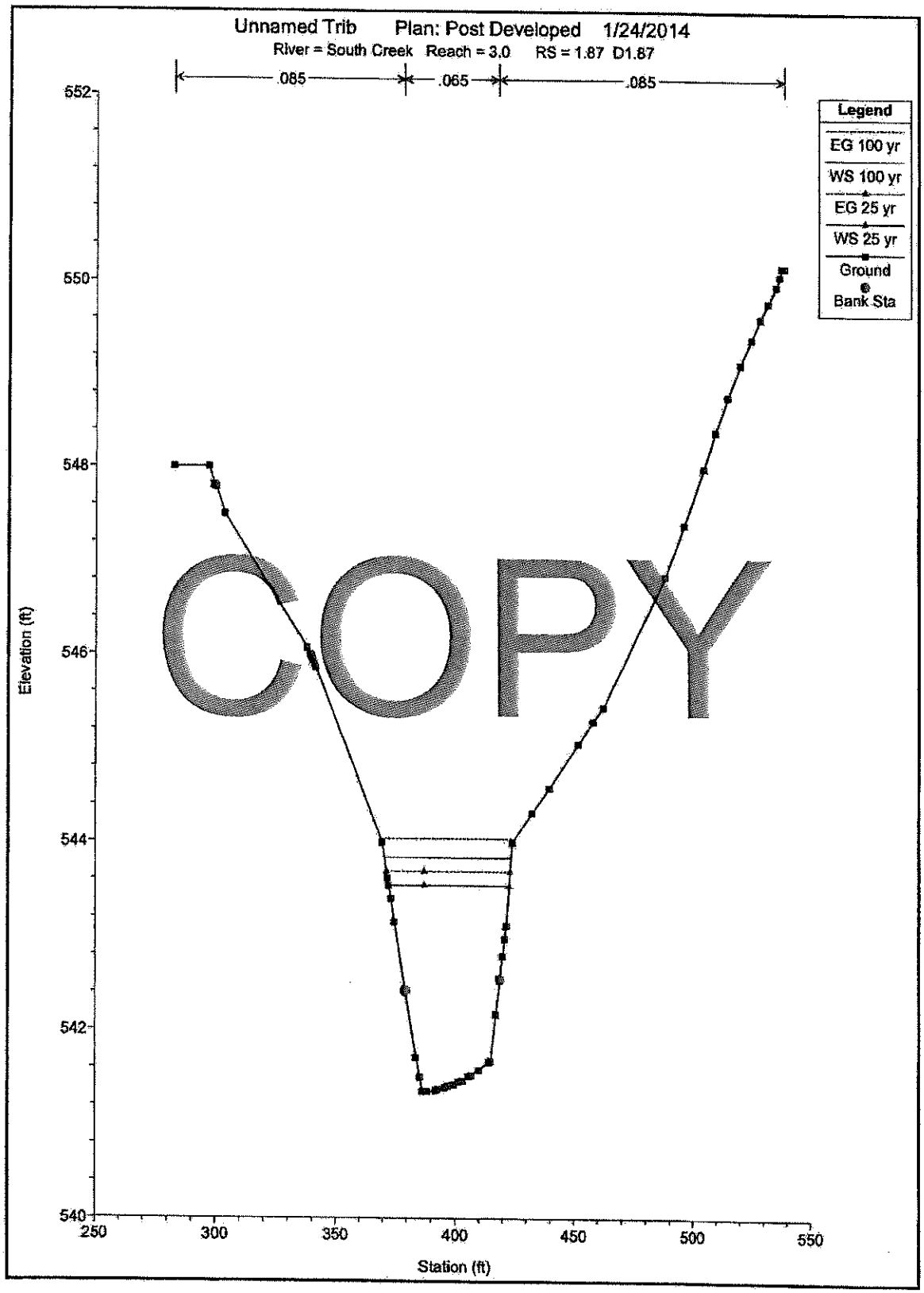

Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 0.53 D0.53
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
Crit 100 yr
WS 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
532
531
530
529
528
180
200
220
240
260
280
300
320
340
360
Station (ft)

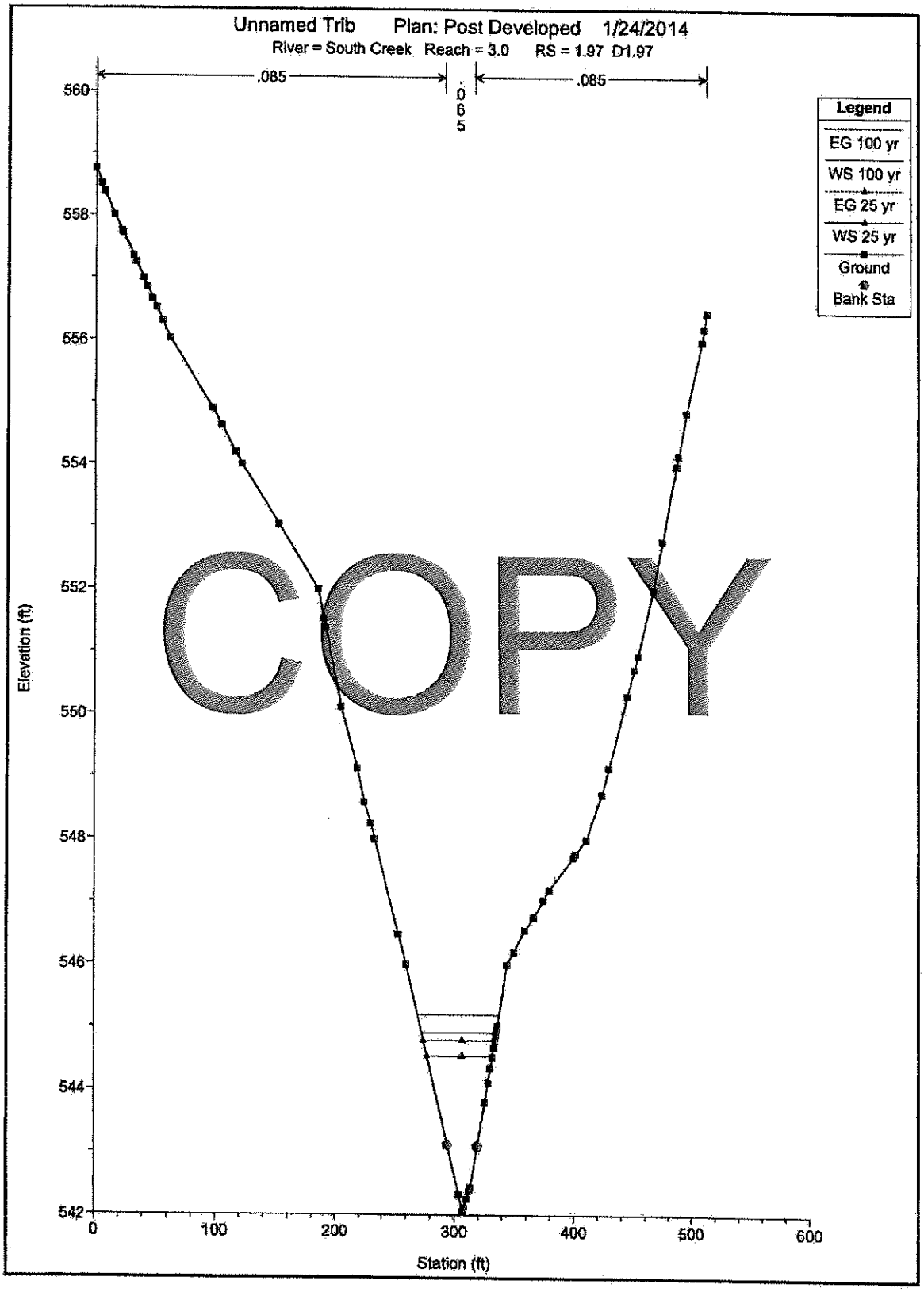

Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 0.77 D0.77
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Ground
Bank Sta
538
536
534
532
530
528
526
Elevation (ft)
0
50
100
150
200
250
300
Station (ft)

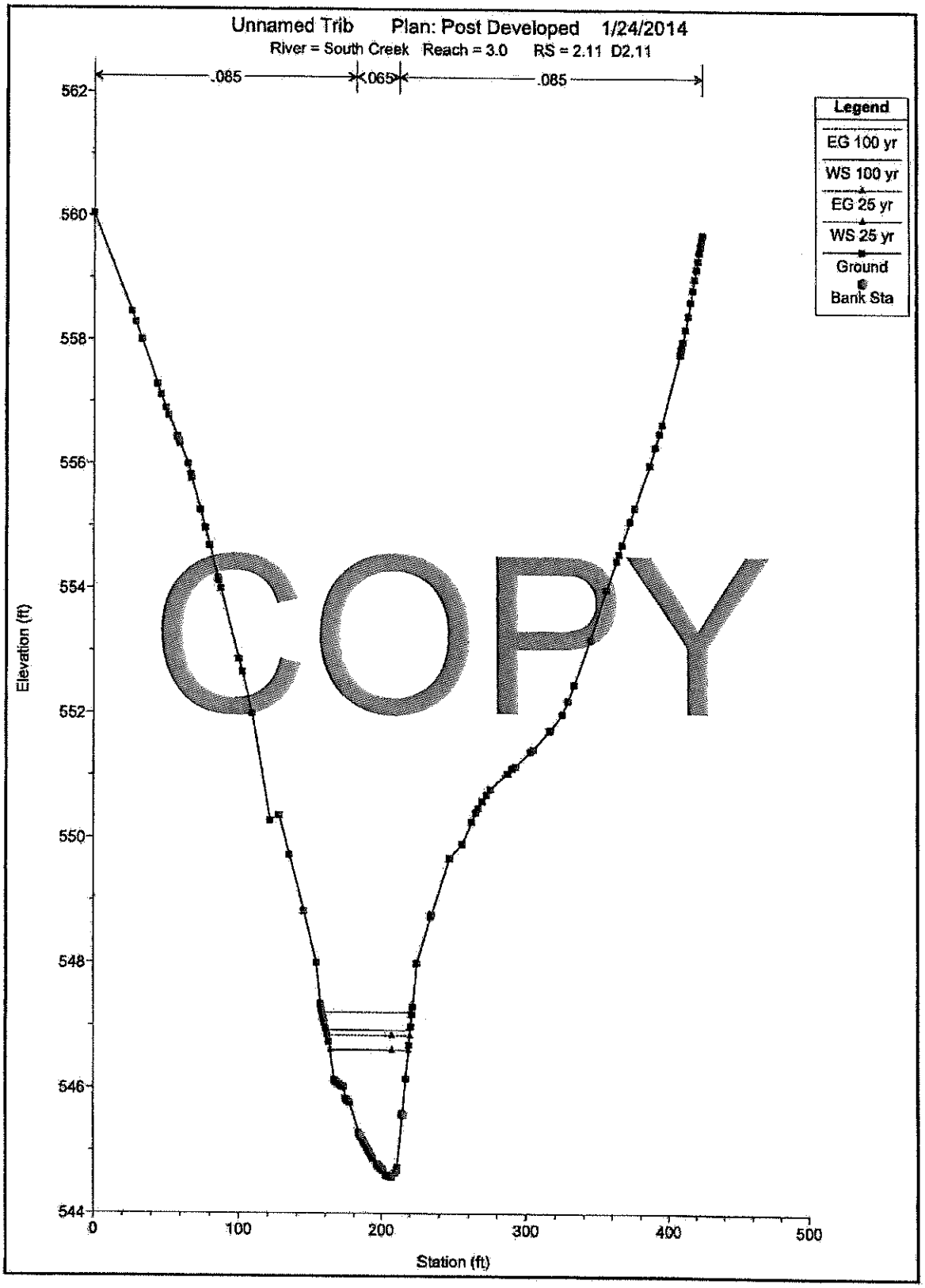

Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 1.08 D1.08
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
542
540
538
536
534
532
530
Elevation (ft)
100
150
200
250
300
350
400
Station (ft)

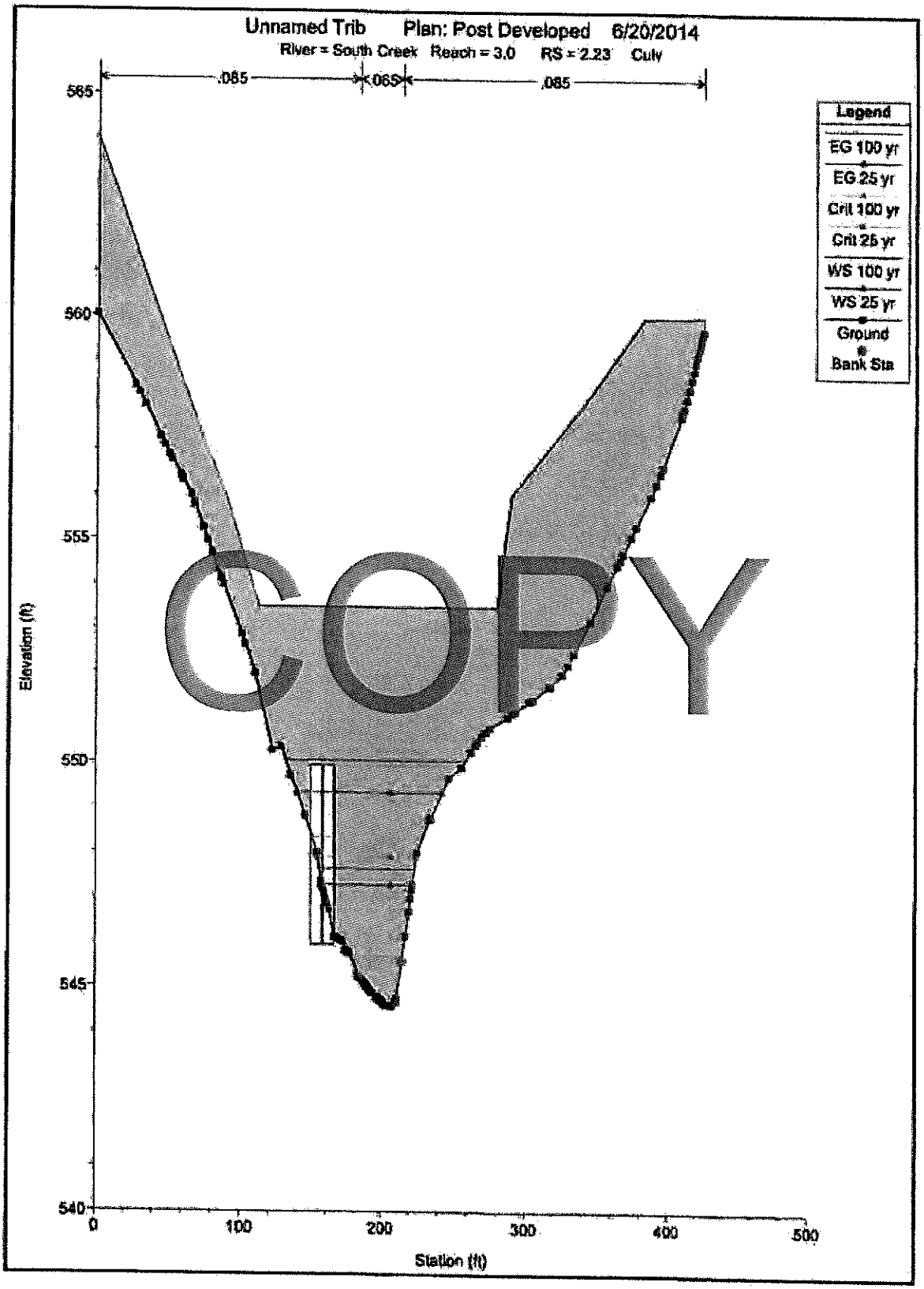

Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 1.21 D1.21
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
WS 100 yr
WS 25 yr
Crit 100 yr
Ground
Bank Sta
539
538
537
536
535
534
533
532
Elevation (ft)
200
220
240
260
280
300
320
340
360
Station (ft)

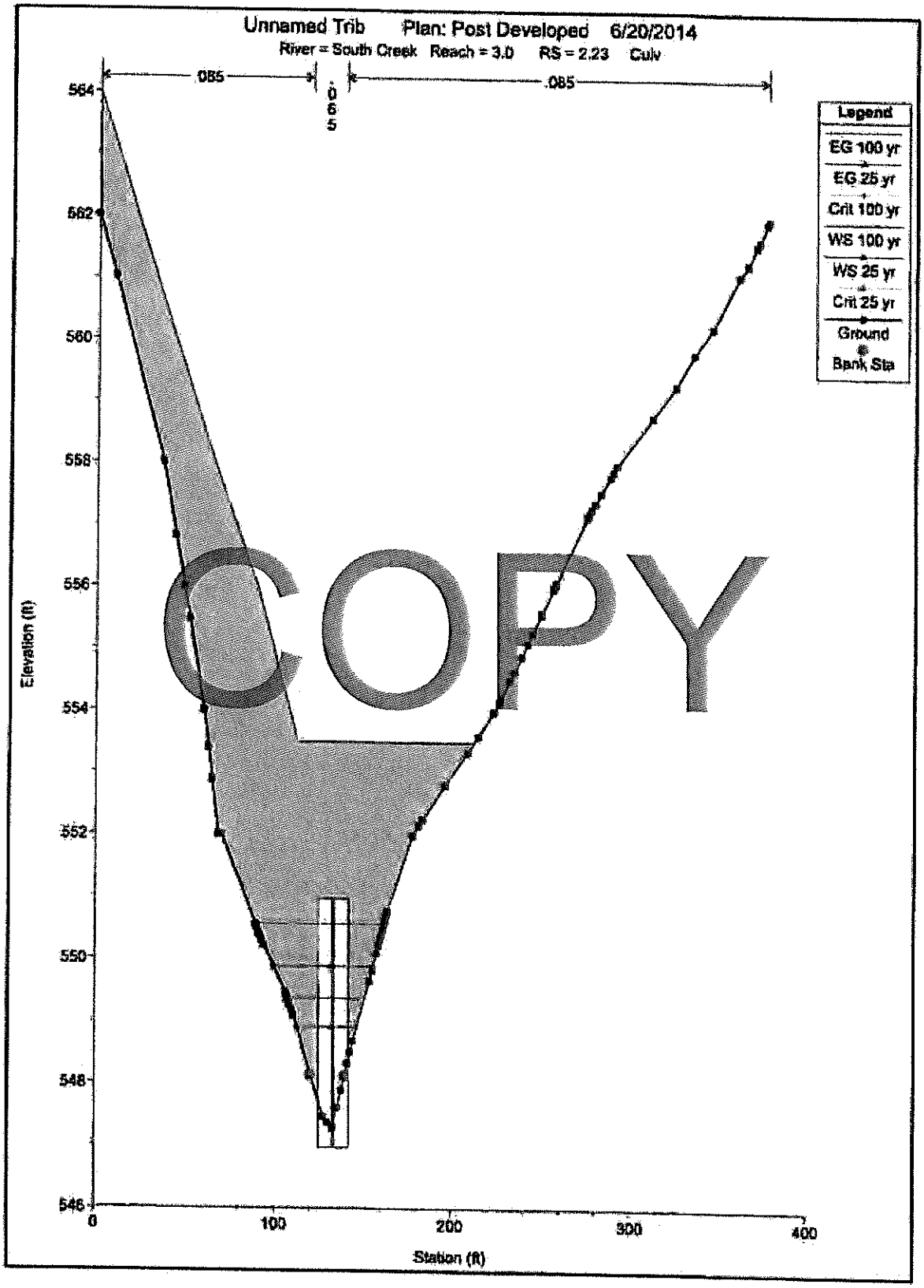

Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 1.66 D1.66
.08
.065
.08
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
546
545
544
543
542
541
540
539
250
300
350
400
450
500
COPY

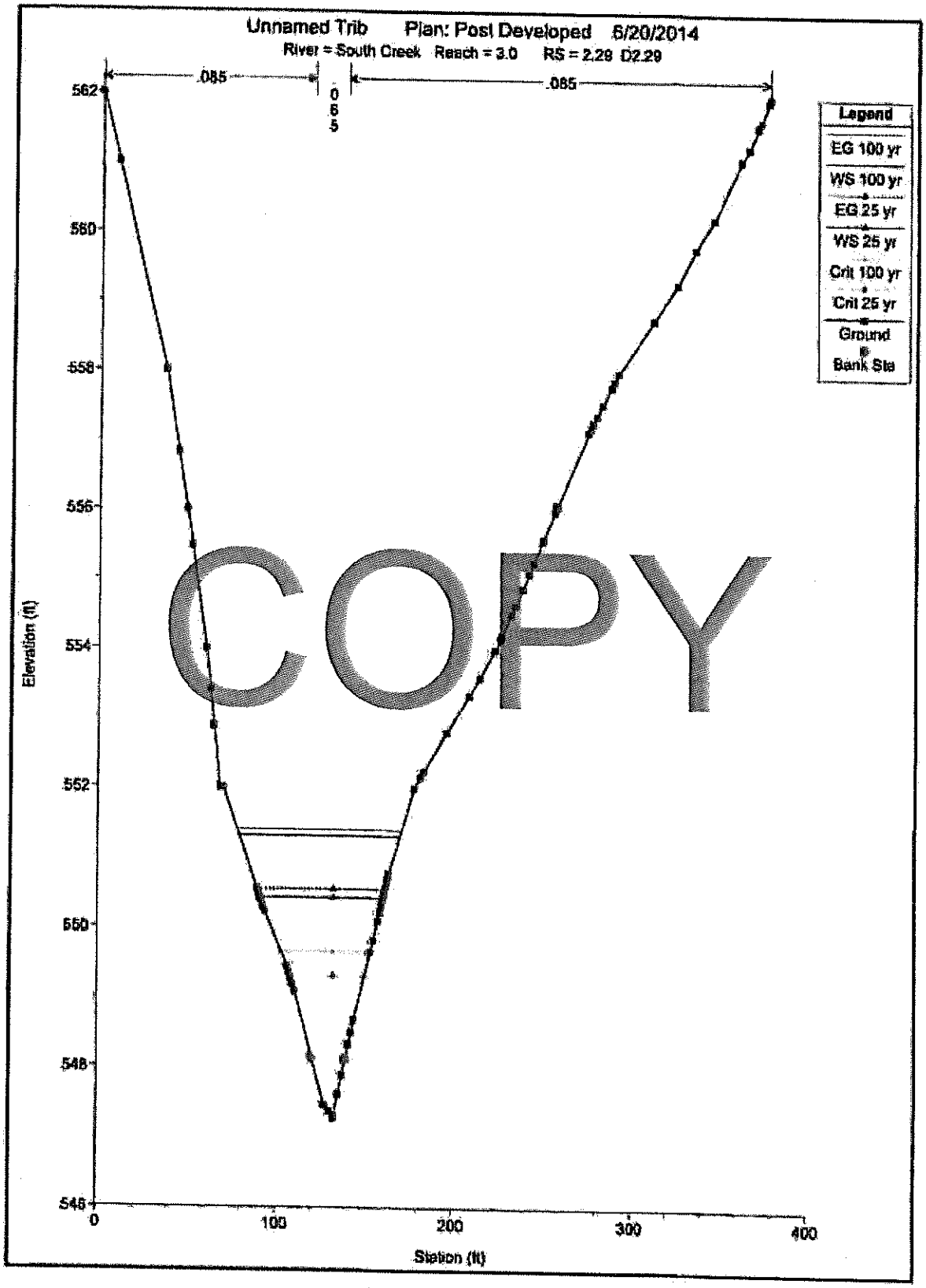

Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 1.87 D1.87
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
552
550
548
546
544
542
540
Elevation (ft)
250
300
350
400
450
500
550
Station (ft)

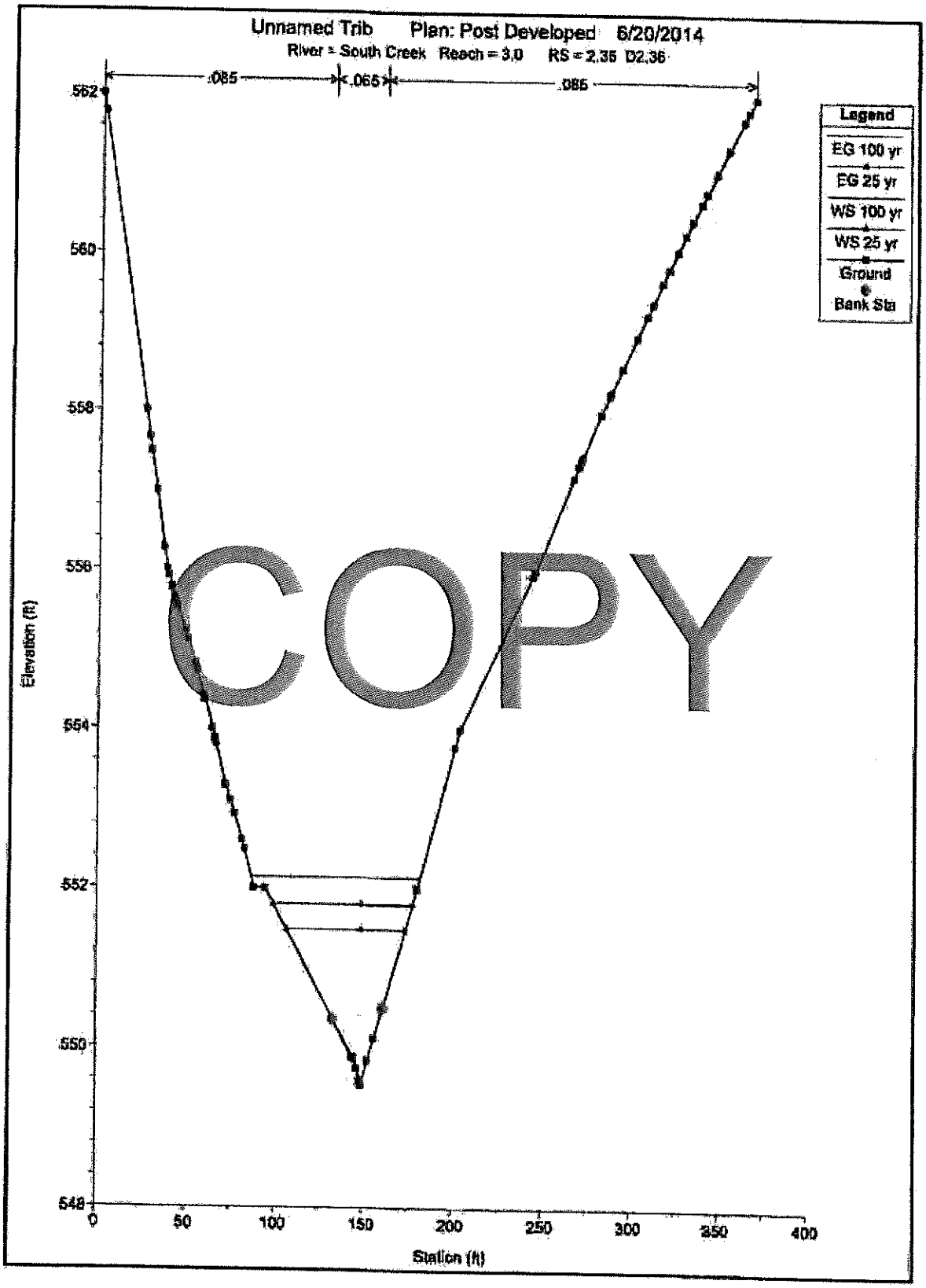

Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 1.97 D1.97
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
560
558
556
554
552
550
548
546
544
542
0
100
200
300
400
500
600

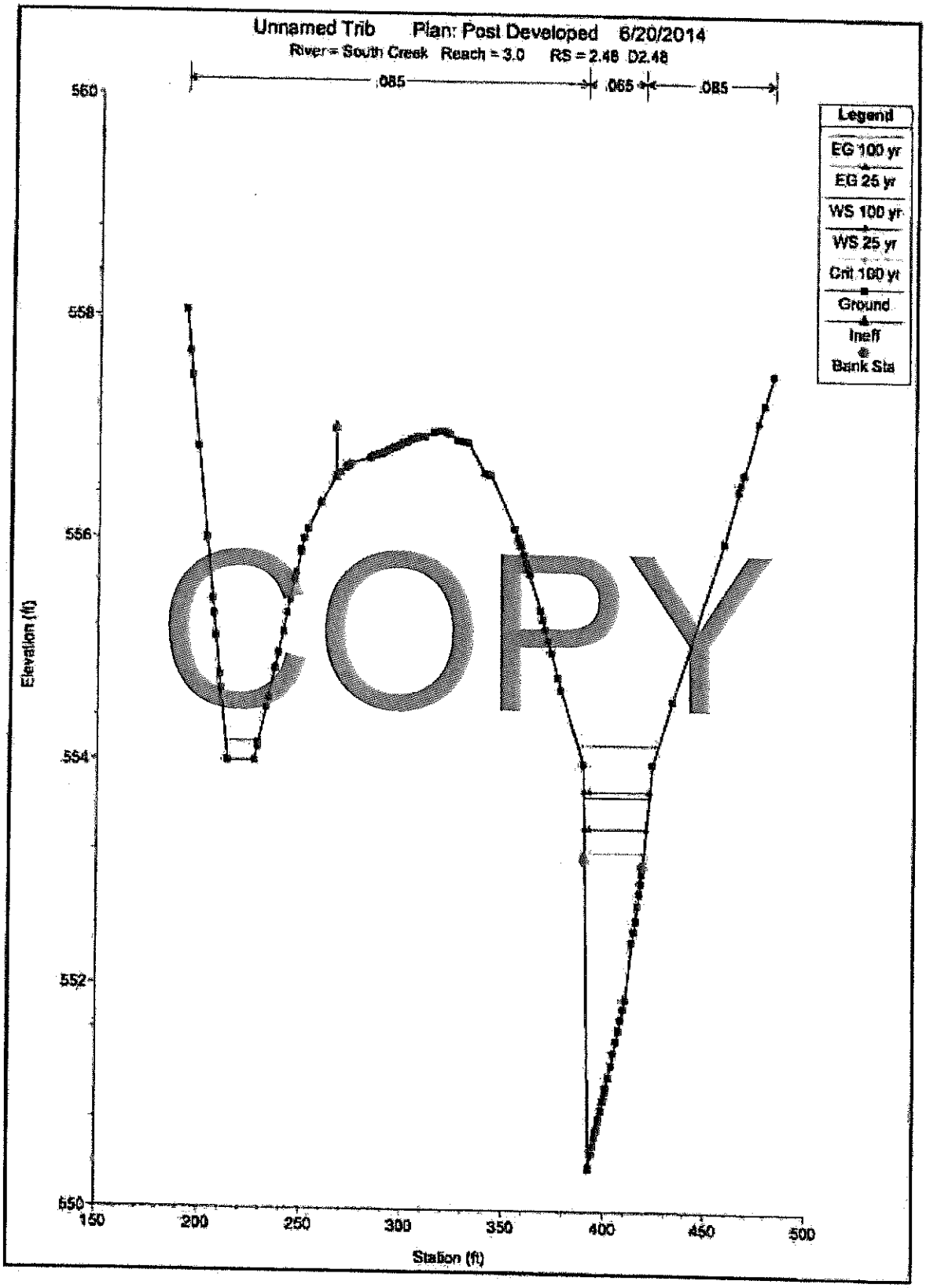

Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 2.11 D2.11
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
562
560
558
556
554
552
550
548
546
544
0
100
200
300
400
500
COPY

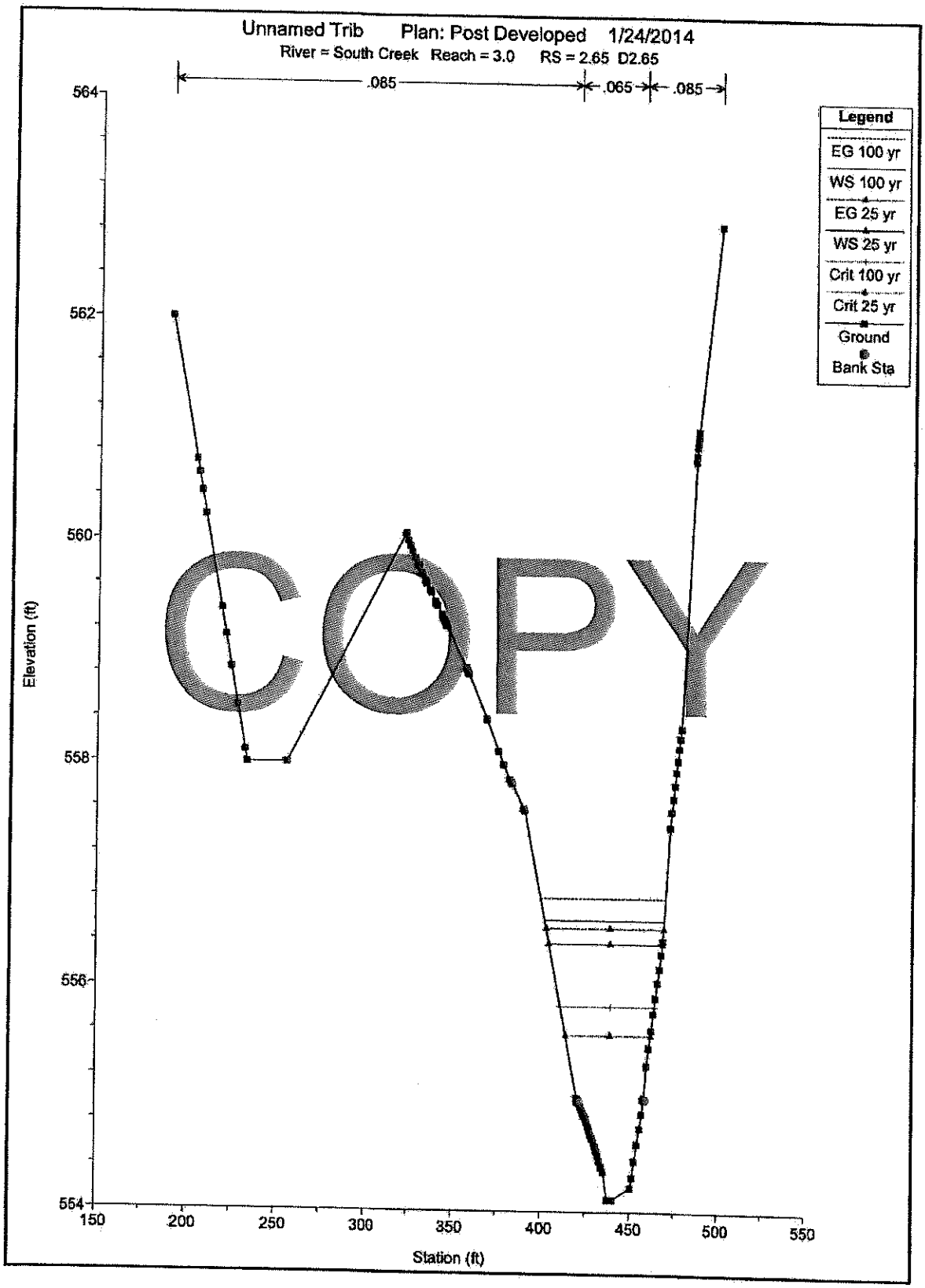

Unnamed Trib Plan: Post Developed 6/20/2014
River = South Creek Reach = 3.0 RS = 2.23 Culv
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
Crit 100 yr
Crit 25 yr
WS 100 yr
WS 25 yr
Ground
Bank Sta
565
560
555
550
545
540
Elevation (ft)
0
100
200
300
400
500
Station (ft)
COPY

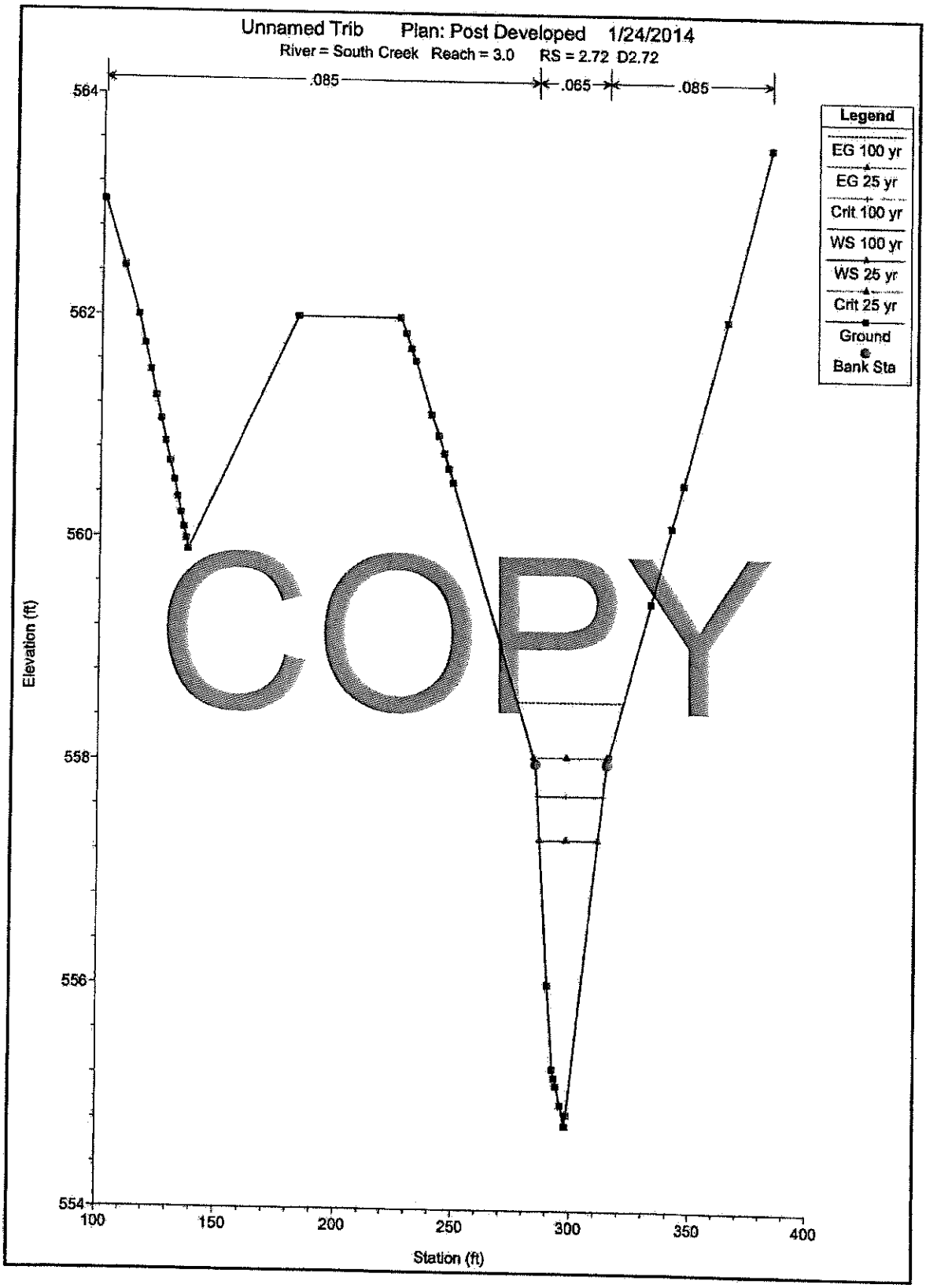

Unnamed Trib Plan: Post Developed 6/20/2014
River = South Creek Reach = 3.0 RS = 2.23 Culv
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
Crit 100 yr
WS 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
564
562
560
558
556
554
552
550
548
546
0
100
200
300
400
Station (ft)
COPY

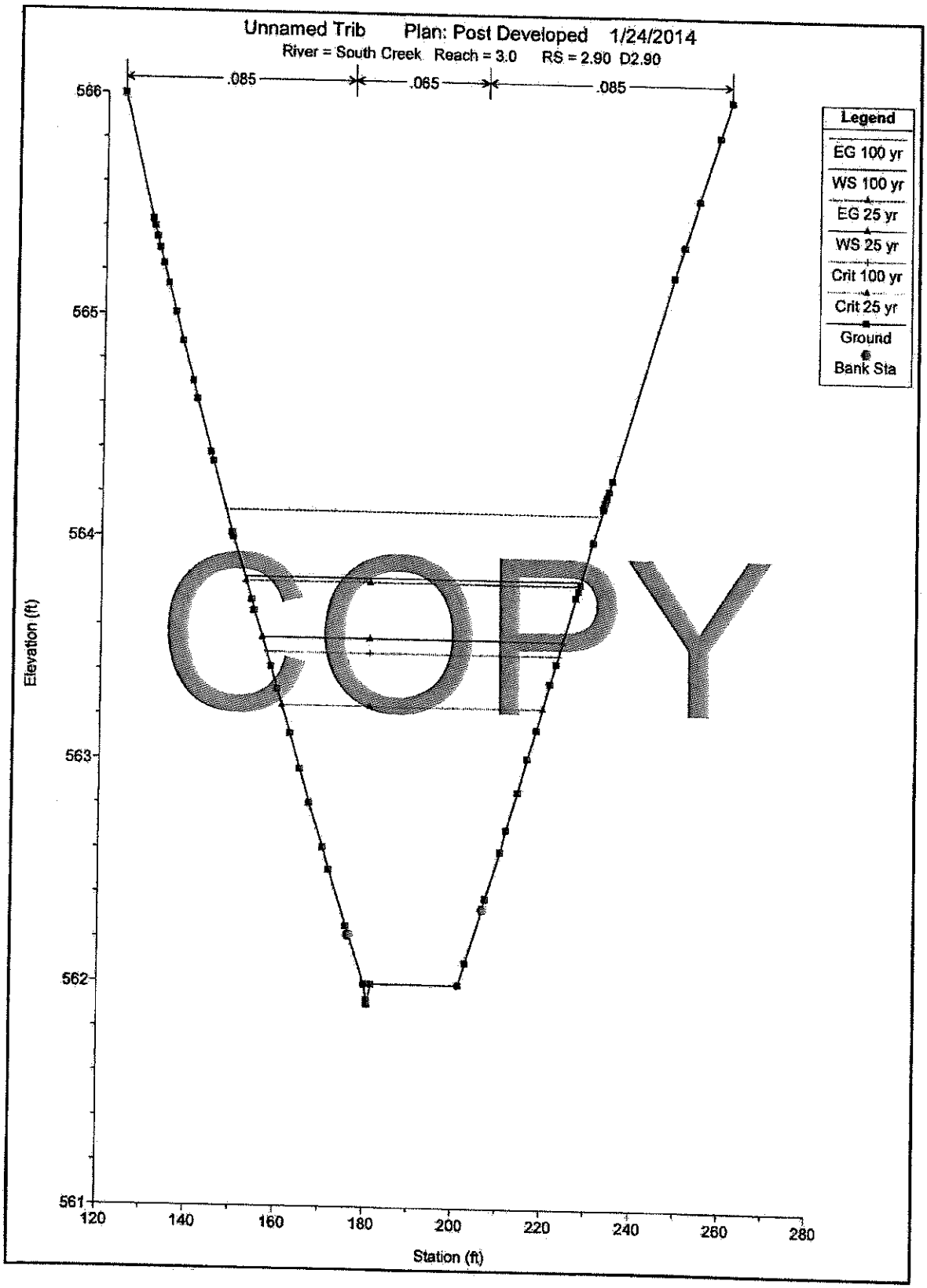

Unnamed Trib Plan: Post Developed 5/20/2014
River = South Creek Reach = 3.0 RS = 2.29 D2.29
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
562
560
558
556
554
552
550
548
546
0
100
200
300
400

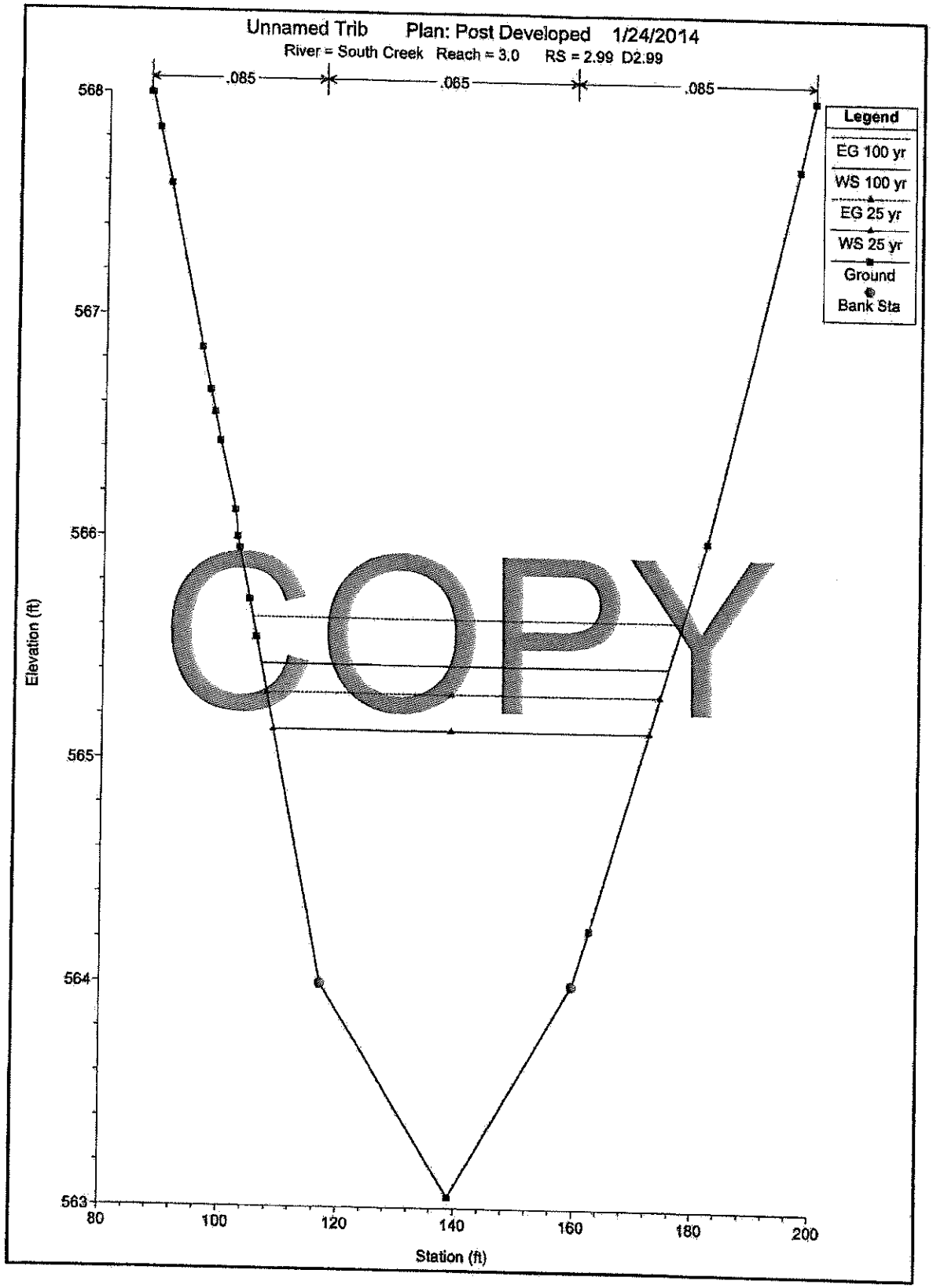

Unnamed Trib Plan: Post Developed 6/20/2014
River = South Creek Reach = 3.0 RS = 2.35 D2.36
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
WS 100 yr
WS 25 yr
Ground
Bank Sta
562
560
558
556
554
552
550
548
Elevation (ft)
0
50
100
150
200
250
300
350
400
Station (ft)

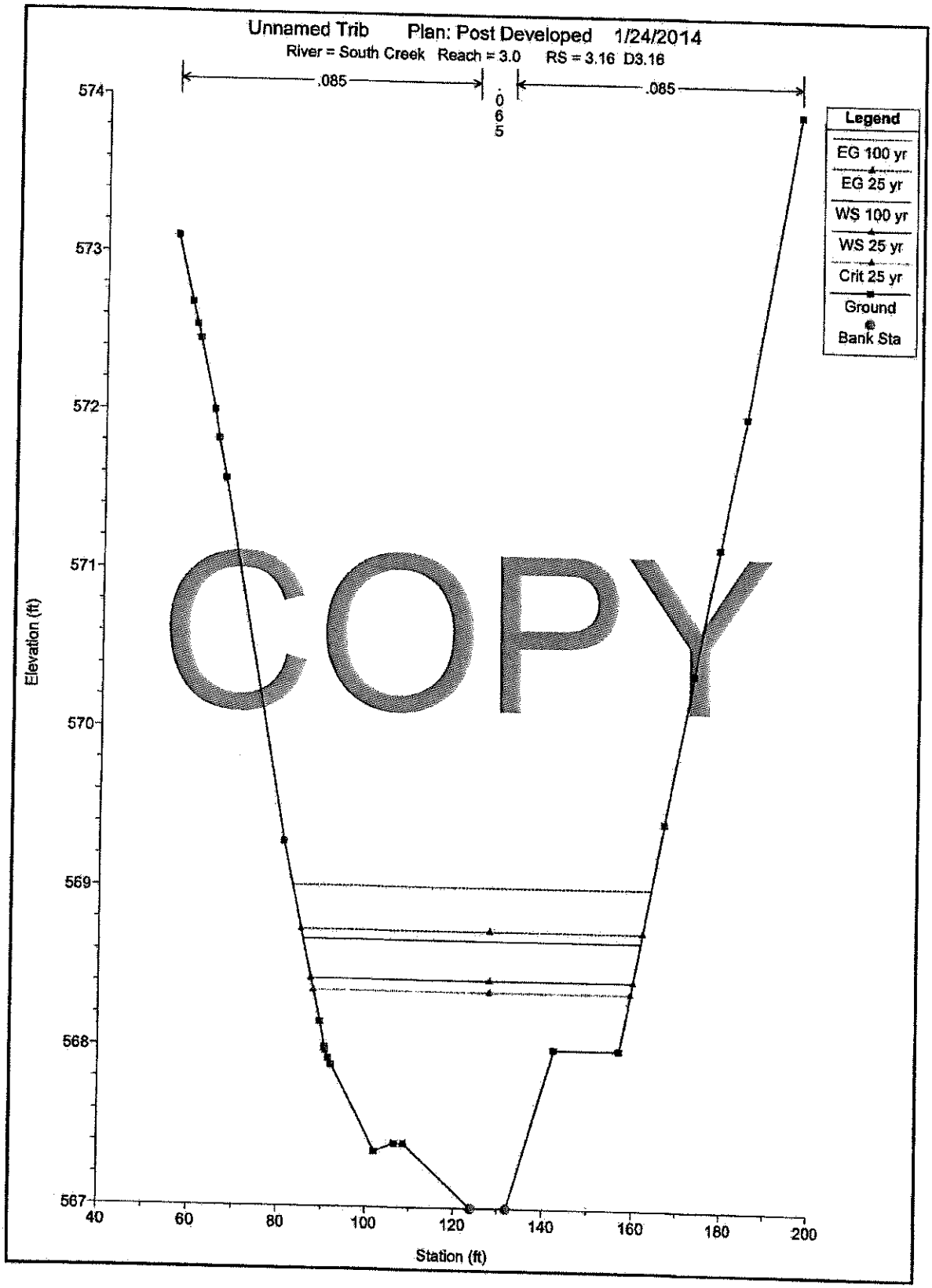

Unnamed Trib Plan: Post Developed 6/20/2014
River = South Creek Reach = 3.0 RS = 2.48 D2.48
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
WS 100 yr
WS 25 yr
Crit 100 yr
Ground
Ineff
Bank Sta
560
558
556
554
552
550
Elevation (ft)
150
200
250
300
350
400
450
500
Station (ft)
COPY

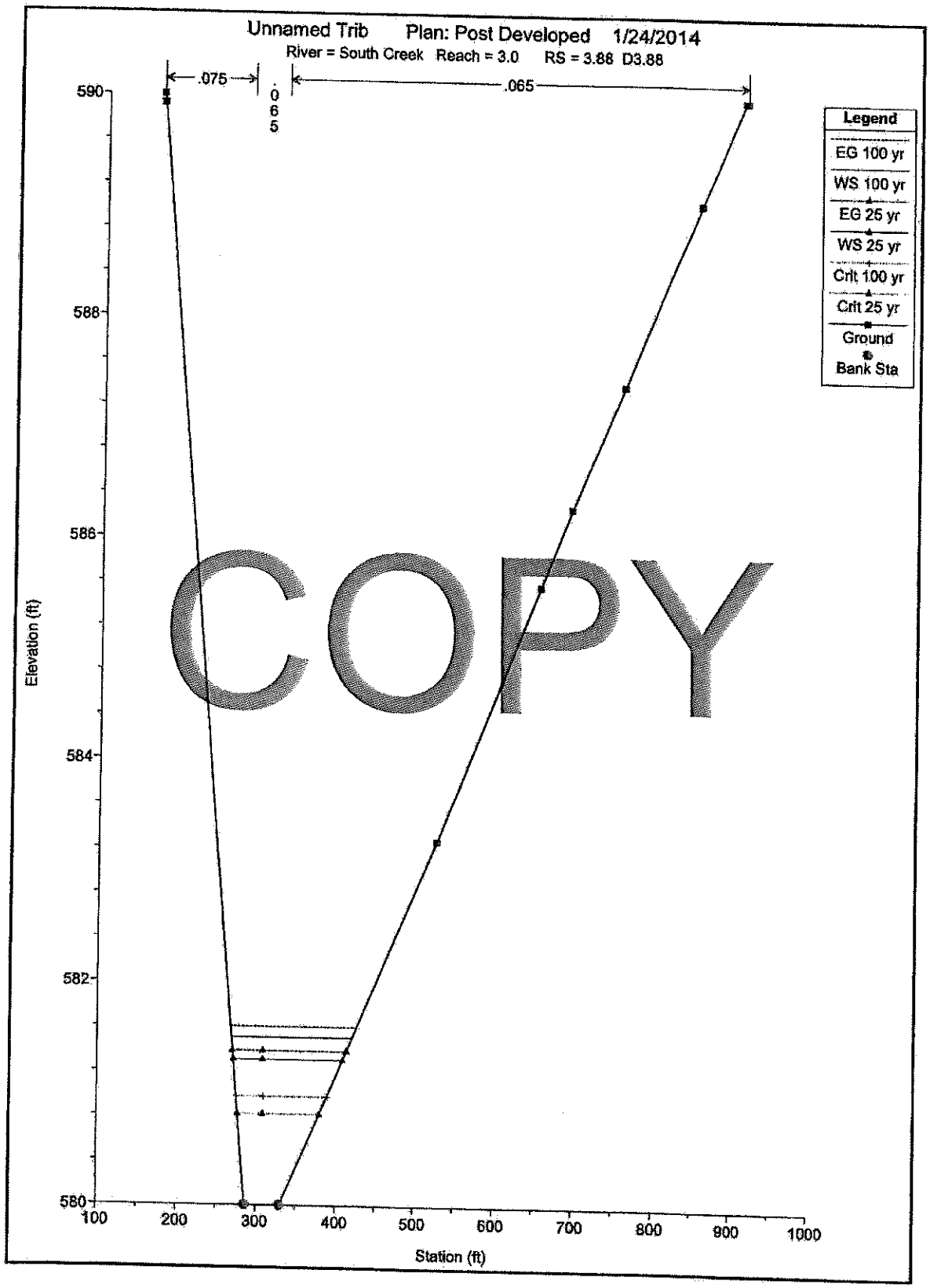

Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 2.65 D2.65
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
564
562
560
558
556
554
150
200
250
300
350
400
450
500
550
Station (ft)


Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 2.72 D2.72
.085
.065
.085
Legend
EG 100 yr
EG 25 yr
Crit 100 yr
WS 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
564
562
560
558
556
554
Elevation (ft)
100
150
200
250
300
350
400
Station (ft)


Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 2.90 D2.90
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta
566
565
564
563
562
561
Elevation (ft)
120
140
160
180
200
220
240
260
280
Station (ft)


Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 2.99 D2.99
.085
.065
.085
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Ground
Bank Sta
Elevation (ft)
568
567
566
565
564
563
80
100
120
140
160
180
200
Station (ft)


Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 3.16 D3.16
.085
.085
065
Legend
EG 100 yr
EG 25 yr
WS 100 yr
WS 25 yr
Crit 25 yr
Ground
Bank Sta
Elevation (ft)
Station (ft)
574
573
572
571
570
569
568
567
40
60
80
100
120
140
160
180
200


Unnamed Trib Plan: Post Developed 1/24/2014
River = South Creek Reach = 3.0 RS = 3.88 D3.88
.075
.065
590
588
586
584
582
580
Elevation (ft)
100
200
300
400
500
600
700
800
900
1000
Station (ft)
Legend
EG 100 yr
WS 100 yr
EG 25 yr
WS 25 yr
Crit 100 yr
Crit 25 yr
Ground
Bank Sta

130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ REGISTRATION NO. MSW 40269

TYPE V REGISTRATION APPLICATION

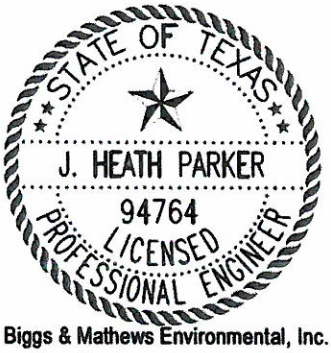
PART IV
SITE OPERATING PLAN

Prepared for

130 ENVIRONMENTAL PARK, LLC

August 2013
Revised February 2014

Revised July 2014



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

7/11/14

Prepared by

BIGGS & MATHEWS ENVIRONMENTAL
1700 Robert Road, Suite 100 • Mansfield, Texas 76063 • 817-563-1144
TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION NO. F-256
TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS
FIRM REGISTRATION NO. 50222

And

BIGGS & MATHEWS, INC.
2500 Brook Avenue • Wichita Falls, Texas 76301 • 940-766-0156
TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION NO. F-834

J. Heath Parker 7/11/14

Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

CONTENTS

J. Heath Parker 7/11/14

Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

CONTENTS (CONTINUED)

4 STORAGE REQUIREMENTS

30 TAC §§330.209 and 330.213

4.1 Solid Waste Storage

The transfer station will only accept construction or demolition wastes ~~and other inert wastes~~as defined in 30 TAC §330.3. All solid waste entering the transfer station will be stored indoors or inside the closed transfer trailers or roll-off boxes awaiting transport. Transfer trailers and roll-off boxes will be tarped if stored outside. Because the waste will be stored in covered containers, all solid waste will be stored in a manner to prevent fires, ensure safety, control animals, control vectors, and contained to prevent windblown solid waste and litter. Odor control procedures are included in Section 7.12.1 and windblown waste control procedures are included in Section 7.6.

4.2 Approved Containers

All solid waste entering the transfer station will be transferred from the tipping floor to the transfer trailers or roll-off boxes. The transfer trailers and roll-off boxes will be equipped with tarps to cover and close the trailer during transport. In addition, the trailers and roll-off boxes will be designed to prevent spillage or leakage during storage, handling, or transport.

The transfer trailers and roll-off boxes will be maintained in a clean condition. The transfer trailers and roll-off boxes will be washed as necessary so that they do not constitute a nuisance and to retard the harborage, feeding, and propagation of vectors.

Adequate turning radii for the vehicles utilizing the facility have been provided to maintain normal traffic flow.

Adequate vehicle parking is provided for equipment, employees, and visitors at the facility.

7.2 Unloading of Waste

The categories of wastes that are prohibited at this facility by state and federal regulations are discussed in Section 2.1 of this SOP.

Trained personnel will monitor the incoming waste on the trucks at the unloading areas. These personnel will be familiar with the rules and regulations governing the various types of waste that can or cannot be accepted into this facility, including knowledge of §330.171 and §330.173. The personnel will also have a basic understanding of both industrial and hazardous waste and their transportation and disposal requirements. Trained personnel at the tipping floor will be on-duty during waste acceptance hours to observe all waste unloading.

Trained personnel at the tipping floor will have the authority and responsibility to reject loads which contain prohibited wastes. The personnel will also have the authority to have prohibited waste removed by the waste haul vehicle or transporter, immediately upon discovery. Trained personnel at the tipping floor will immediately notify the facility manager of suspected prohibited waste. The facility manager will direct transfer station personnel to remove or manage prohibited waste appropriately. The facility manager may assess appropriate surcharges to the waste hauler, transporter, or generator.

Any prohibited waste that is not discovered by the operators until after it is unloaded shall be returned to the vehicle that delivered the waste. That party shall be responsible for the proper disposal of this rejected waste. In the event the unauthorized waste is not discovered until after the vehicle that delivered it is gone, the waste shall be segregated and controlled as necessary. An effort shall first be made to identify the entity that deposited the prohibited waste and have them return to the facility and properly dispose of the waste. In the event that identification is not possible, the transfer station will ~~notify the TCEQ and seek guidance on how to dispose of the waste.~~take the following steps based on the type of prohibited waste:

- Hazardous waste or PCB wastes – The prohibited waste will be separated or isolated, if practical, by facility personnel trained in proper handling of hazardous waste or PCB wastes. TCEQ will be notified and the waste will be manifested and transported to an approved facility for disposal. Should an incident occur at the facility involving the removal of hazardous waste or PCB wastes requiring clean-up, a remediation plan will be developed and submitted to TCEQ for approval.
- RACM – The prohibited waste will be separated or isolated, if practical, by facility personnel trained in properly handling of RACM. TCEQ will be notified and the waste will be inspected to ensure that bags are unruptured. If necessary, the RACM will be re-wetted and properly bagged. It will then be manifested and transported to an authorized facility for disposal.

- Municipal solid waste and non-RACM – Any incidental amounts of municipal solid waste or non-RACM will be disposed of, along with site-generated municipal solid waste, at an authorized municipal solid waste facility.
- Other prohibited waste – Other prohibited waste will be either transported to an authorized disposal facility for the waste, or TCEQ will be notified to seek guidance on disposal of the waste.

The unloading of solid waste in unauthorized areas is prohibited. Solid waste unloading will be controlled to prevent dumping in locations other than those specified by facility management. Load inspections will be conducted as outlined in Section 7.2.1 of this SOP. Any waste deposited in an unauthorized area will be promptly removed and placed on the tipping floor. Control will also be used to confine the working area to a minimum width consistent with the rate of incoming waste, while allowing for safe and efficient operation.

Signs with directional arrows and portable traffic barricades will help to restrict traffic to the designated unloading location. Signs will be placed along the entrance road to the unloading area. In addition, rules for waste unloading and prohibited waste will be prominently displayed on signs at the facility entrance.

7.2.1 Load Inspection Procedure

A properly trained qualified facility staff person will visually inspect all incoming waste loads. Should any indication of prohibited waste be detected, appropriate facility personnel will stop unloading of the vehicle to allow facility personnel to conduct a thorough evaluation of the load. The driver will be directed to a load inspection area, where the load will be discharged from the vehicle. The load inspector will separate the waste pile and inspect the material for any prohibited waste. Known prohibited waste will be placed back into the vehicle and the driver will be instructed to depart the facility. Should any regulated hazardous waste be detected, the entire load will be refused. (Refer to Appendix IVA for a copy of a sample load inspection report form.)

7.3 Spill Prevention and Control

The tipping floor has been designed to control and contain spills and contaminated water from leaving the facility. The tipping floor is sloped, of sufficient size, and contains a floor drain to control and contain a worst case release of contaminated water inside the transfer station building. Contaminated water generated by the transfer station will consist of wash water applied to the tipping floor. This wash water will be directed through a sand/grit trap and enter the 5,500 gallon contaminated water storage tank located outside of the transfer station building. The 5,500 gallon contaminated water storage tank will be installed within a concrete pad enclosed by a wall for secondary containment.

The proposed facility will be authorized to discharge storm water runoff from the site in accordance with the Texas Pollutant Discharge Elimination System (TPDES) Multi-Sector General Permit No. TXR050000. Prior to commencement of operations, a Stormwater Pollution Prevention Plan and Notice of Intent will be prepared to address coverage under the general permit and specific aspects of the facility operation,

including spill prevention and control. The following procedures for the control of any spills that may occur will be included:

- Make available to facility personnel materials and equipment necessary for spill control and clean-up. Such materials and equipment will be maintained at the transfer station building ~~or other suitable location~~. An inventory of spill control/clean-up materials and equipment will be maintained with said materials/equipment. At a minimum, spill control/clean-up materials and/or equipment will include:

  a. Spill absorbent (i.e., speedi-dri, etc.)
  b. Scoops, shovels, brooms, bags, and drums
  c. Spill wipe pads
  d. Portable oil booms/dikes
  e. Spill pillows
  f. Personal protective equipment (neoprene gloves, boots, and goggles)

- In the event of a spill outside of the transfer station building, immediately notify the transfer station manager and promptly control/clean up the spill using the following procedures:

  a. Clear the area of all unnecessary personnel
  b. Rope-off and/or barricade the spill area to prevent entry of unauthorized personnel
  c. Put on appropriate protective equipment, such as gloves, boots, etc.
  d. If safe to do so, initiate action to stop the source of the spill by closing a valve, stopping a pump, etc.
  e. If safe to do so, contain/clean-up the spill using absorbent materials, dikes, booms, and other appropriate equipment and materials

7.4 Operating Hours

The 130 Environmental Park ~~t~~Transfer ~~s~~Station will be authorized for waste acceptance from 7:00 a.m. to 7:00 p.m., Monday through Friday, and 7:00 a.m. to 12:00 p.m. on Saturday. The facility will be closed on Sunday. There will be no hourly limitation on conducting waste acceptance or other activities within the waste acceptance hours. The transfer station will be authorized for facility operations from 5:00 a.m. to 9:00 p.m., Monday through Friday, and 5:00 a.m. to 2:00 p.m. on Saturday. Facility operations include non-waste acceptance operations. The public waste acceptance hours will be posted on the facility sign. The transfer station may be open other hours, as may be required to provide waste acceptance for special events, inclement weather, emergencies, or other circumstances. 130 Environmental Park will notify the TCEQ regional office and will record waste acceptance hours outside of posted hours in the site operating record.

7.5 Facility Sign

A sign will be conspicuously displayed at the entrance to the facility. This sign will measure at least four feet by four feet, and have lettering of at least three inches in height. The sign will state the name of the facility, type of facility, hours and days of