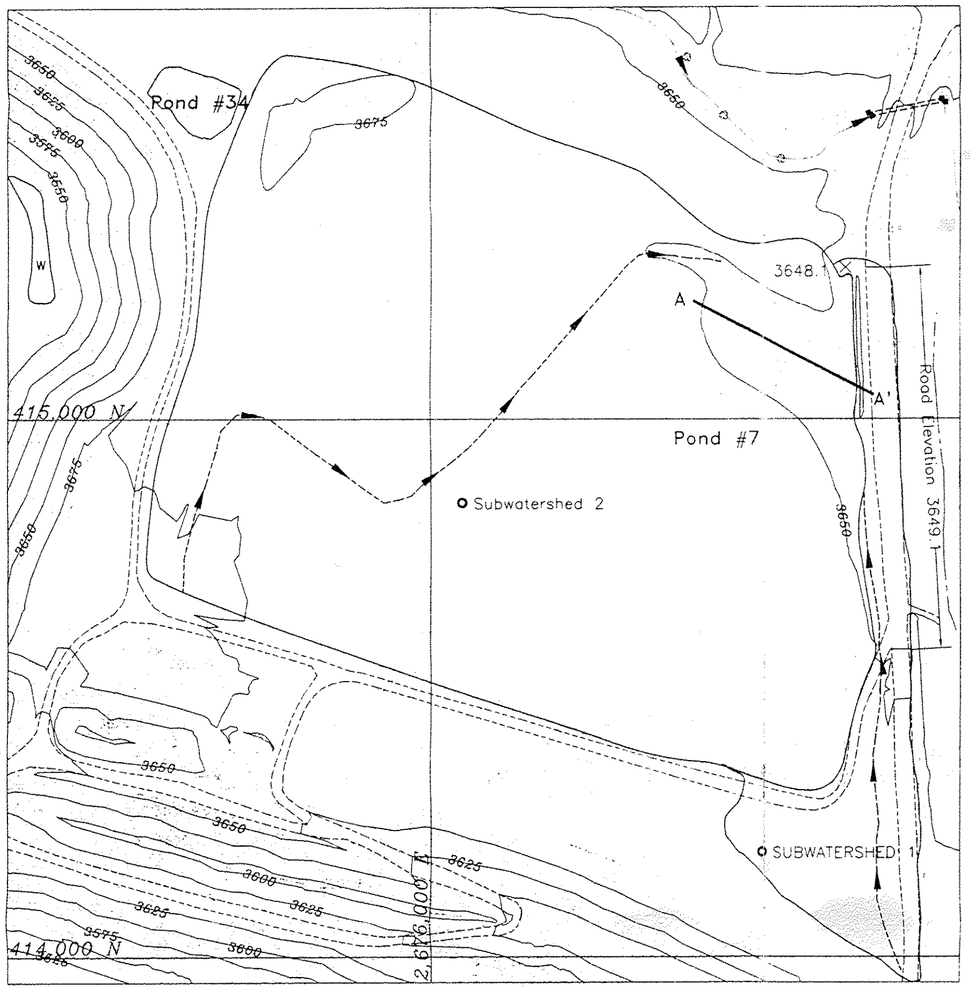



N Scale: 1" = 200'

## POND #7 CAPACITY TABLE

| Elev. ft. amsl | Stage feet | Area Acres | Average Acre Feet | Incre. Capacity ac.-ft. | Cumm. Capacity ac.-ft. | Volume Usage |
|---|---|---|---|---|---|---|
| 3637.00 | | | | | | |
| 3637.00 | 0.00 | 0.059 | | | | |
| 3638.00 | 1.00 | 0.107 | 0.083 | 0.083 | 0.083 | |
| 3639.00 | 2.00 | 0.161 | 0.134 | 0.134 | 0.218 | Sediment Storage (1.13 ac.-ft.) |
| 3640.00 | 3.00 | 0.223 | 0.192 | 0.192 | 0.410 | |
| 3641.00 | 4.00 | 0.292 | 0.258 | 0.258 | 0.668 | |
| 3642.00 | 5.00 | 0.368 | 0.330 | 0.330 | 0.998 | |
| 3642.35 | 5.35 | 0.395 | 0.381 | 0.133 | 1.131 | |
| 3643.00 | 6.00 | 0.447 | 0.421 | 0.274 | 1.405 | |
| 3644.00 | 7.00 | 0.538 | 0.493 | 0.493 | 1.897 | |
| 3645.00 | 8.00 | 0.664 | 0.601 | 0.601 | 2.499 | 25yr-24hr Volume (3.15 ac.-ft.) |
| 3646.00 | 9.00 | 0.821 | 0.743 | 0.743 | 3.241 | |
| 3647.00 | 10.00 | 1.037 | 0.929 | 0.929 | 4.170 | |
| 3647.10 | 10.10 | 1.048 | 1.043 | 0.104 | 4.275 | |

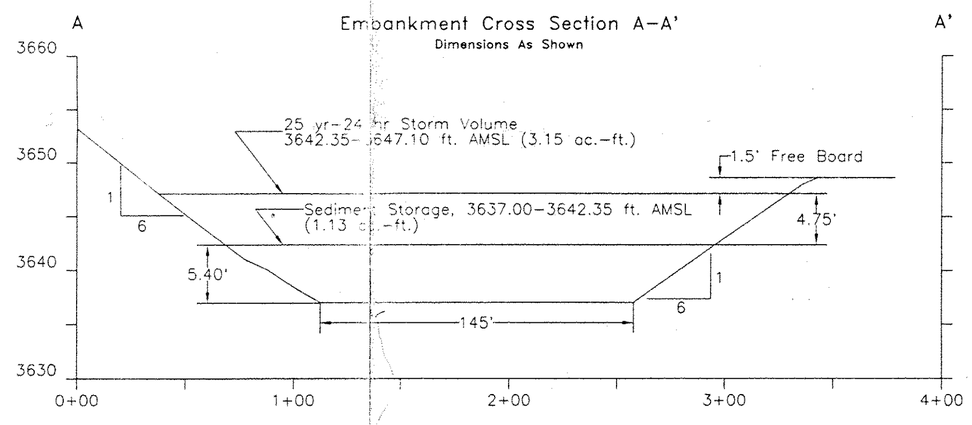
## AREA RUNOFF ESTIMATES

| | | |
|---|---|---|
| Precipitation | = | 2.75 inches |
| Rainfall Distribution | = | SCS Type II |
| Rainfall Duration | = | 24 hours |
| Recurrence Interval | = | 25 years |
| Runoff Volume | = | 3.15 acre-ft. |
| Peak Discharge | = | 27.92 cfs. |
| Sediment Storage | = | (0.035 acre-ft./acre) |
| | = | 1.13 acre-ft. |

Total Required Pond Volume = 4.28 acre-ft.

## DRAINAGE DATA

| | | |
|---|---|---|
| O SUBWATERSHED 1 | = | Haul Rd./Access Rd. |
| Area | = | 3.43 Acres |
| Hydraulic Length | = | 920.0 ft. |
| Relief | = | 20.0 ft. |
| AMC | = | II |
| RCN | = | 89 |
| Vegetation | = | None |
| O Subwatershed 2 | = | Reclaimed Area |
| Area | = | 28.49 Acres |
| Hydraulic Length | = | 1,450 ft. |
| Relief | = | 31.0 ft. |
| AMC | = | II |
| RCN | = | 81 |
| Vegetation | = | Reclamation Grass Mix |




Letter of 9/22/96 620.4561

SPRING CREEK COAL

Spring Creek Coal Company
P.O. BOX 67
Decker, Montana 59025
Ph. (406) 757-2581

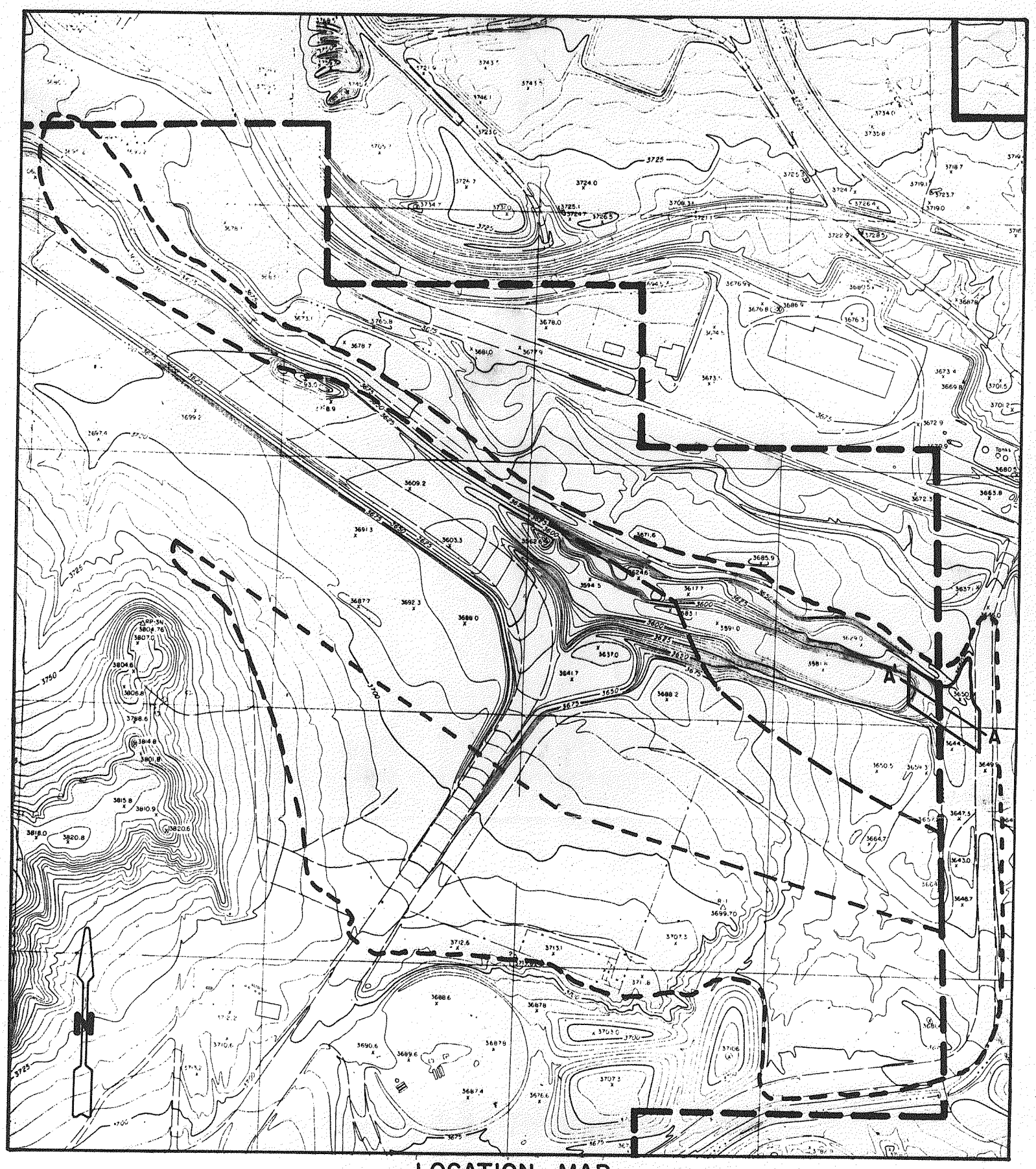
| DATE | BY | REVISIONS |
|---|---|---|
| 9/21/96 | PJW | Road Embankment Elevation |

SPRING CREEK COAL COMPANY

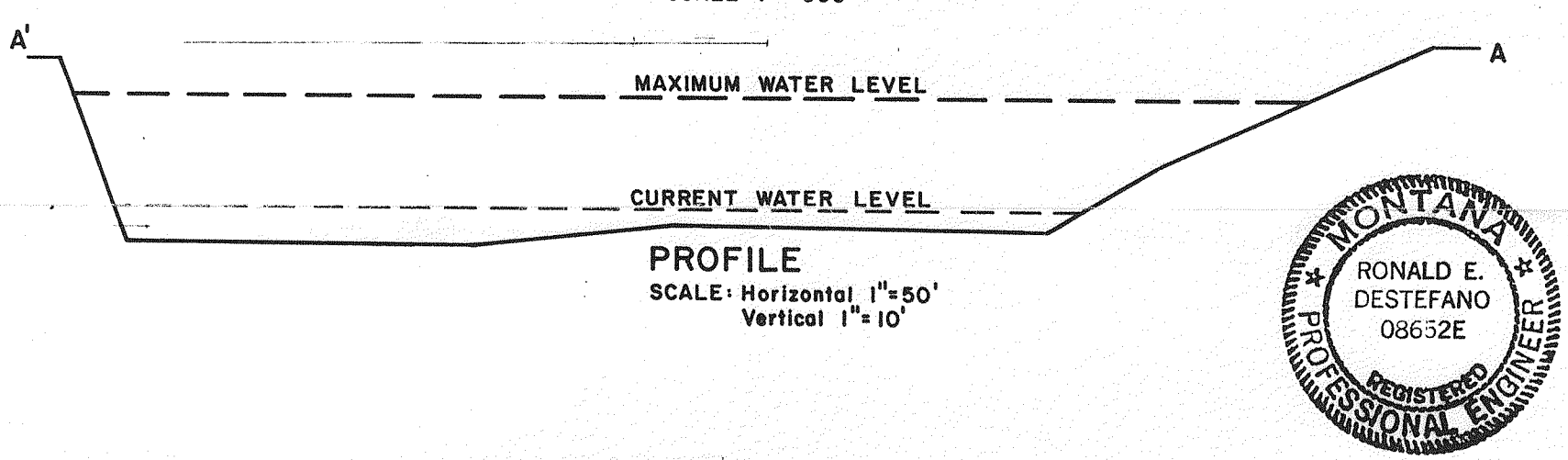
# Pond #7 Enlargement Design

DESIGN: BT DRAWN: PJW DATE: 3/28/96

SCALE: AS SHOWN FILE NUMBER: H-9601-C




## LOCATION MAP
SCALE: 1" = 500'




## PROFILE
SCALE: Horizontal 1"=50'
Vertical 1"=10'

MONTANA
RONALD E. DESTEFANO
08652E
REGISTERED PROFESSIONAL ENGINEER

CAPACITY = 4.98 Ac. Ft.

CURRENT WATER LEVEL = 2'

RUNOFF AREA = 77.41 Acres

PRECIPITATION, 100 yr. - 24 hr. event = 3.35"

TOTAL RUNOFF = .68" from SCCC Permit Rule 26.4.304, Table 2.

RUNOFF VOLUME = .68" x 77.41 Ac. ÷ 1"/12" = 4.39 Ac. Ft.
This is less than the capacity of 4.98 Ac. Ft.

REQUIRED SEDIMENT STORAGE VOLUME = 0.2 - 0.5 Ac.Ft./sq.mi./yr.

$\frac{77.41 \text{ Ac.}}{640 \text{ Ac./sq. mi.}}$ x 0.5 Ac.Ft./yr. = .06 Ac.Ft./yr.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP IS CORRECT AND SHOWS TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL THE INFORMATION REQUIRED BY RULE 26.4.639.

Ronald E. Destefano
RONALD E. DESTEFANO

**Spring Creek Coal Co.**

POND No. 7
PROFILE & RUNOFF AREA

DESIGN GL DRAWN DR DATE 2/17/88
SCALE: A.S. FILE NUMBER H-8801-B