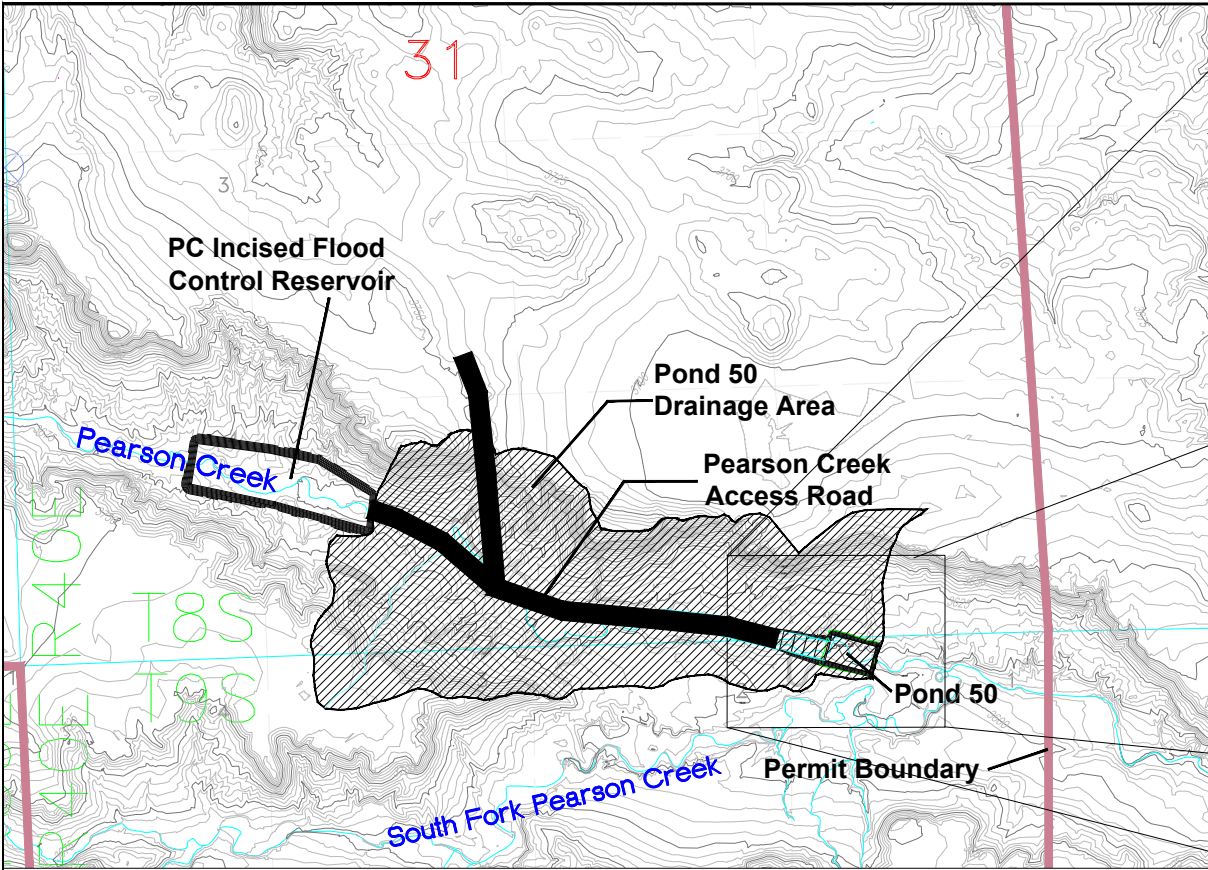
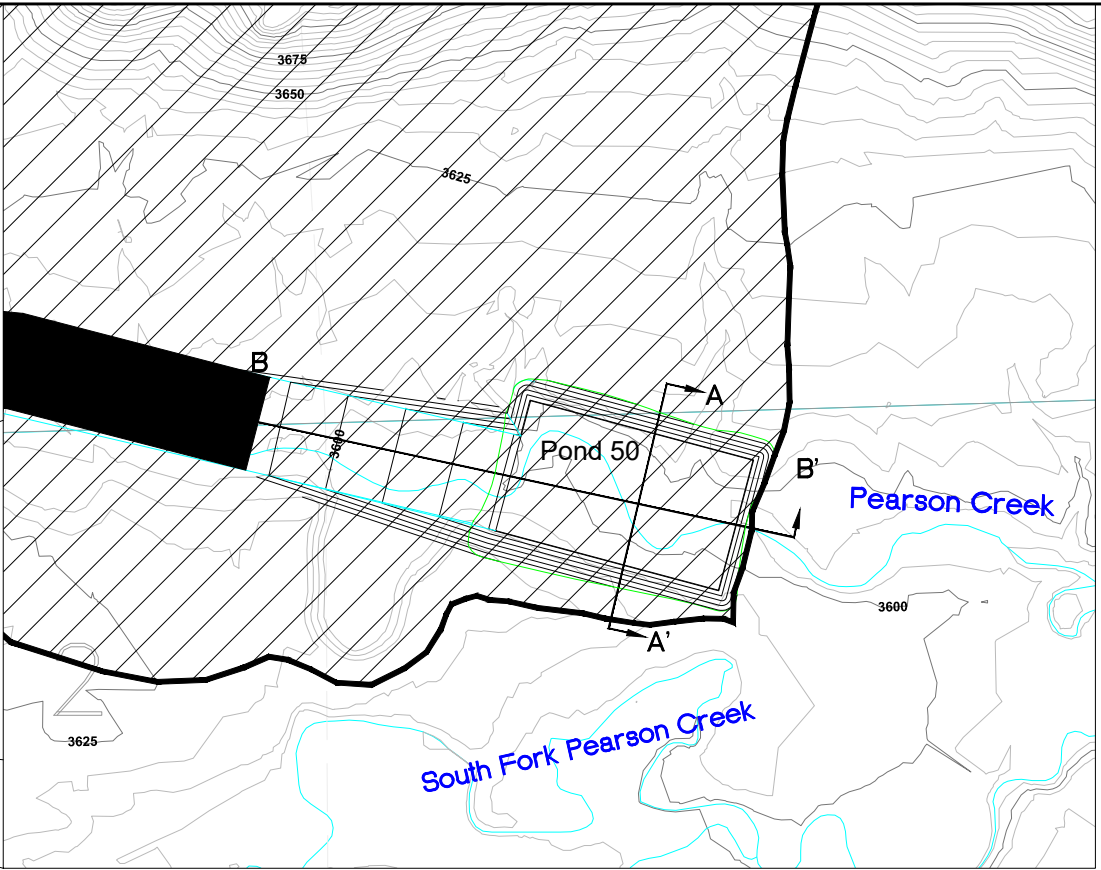




LOCATION MAP

SCALE: 1" = 1,000', C.I. = 5'
POND IS LOCATED IN NENE SECTION 6, T9S, R40E.



PLAN MAP

SCALE: 1" = 200', C.I. = 5'

ELEVATION	AREA (ACRES)	AVERAGE AREA (ACRES)	INCREMENTAL CAPACITY (ACRE-Feet)	CUMULATIVE CAPACITY (ACRE-Feet)	USE
3585	0.771			0	INACTIVE CAPACITY VOLUME = 0.47 AC-FT sediment storage
3585.6	0.798	0.78	0.47	0.47	
3590	0.998	0.90	3.95	4.42	ACTIVE CAPACITY VOLUME = 9.55 AC-FT 10-YEAR 24-HOUR RUNOFF VOLUME = 2.62 AC-FT
3595	1.241	1.12	5.60	10.02	
HIGH WATER LINE = 3595.00 FT, TOTAL CAPACITY = 10.02					

POND 50 SEDIMENT RESERVOIR
DRAINAGE AREA DATA

TOTAL DRAINAGE AREA = 68.00 acres
LONGEST WATERCOURSE = 4085 ft
AVERAGE LAND SLOPE = 18.51%
CURVE NUMBER = 83.5 (Area-Weighted)
SOILS = Hydrologic Soils Group C
TIME OF CONCENTRATION = 0.28 Hours

RUNOFF ESTIMATE

RAINFALL DISTRIBUTION = SCS TYPE II
PRECIPITATION (10YR-24HR) = 2.19 in
PEAK Q (10YR-24HR) = 60.28 cfs
VOLUME (10YR-24HR) = 2.62 ac-ft
DESIGN METHOD = SCS RUNOFF CURVE NUMBER
METHOD AND SCS TRIANGULAR
HYDROGRAPH METHOD
(TRIHYDRO)

DESIGN CAPACITY

SEDIMENT CAPACITY (0.02 ac-ft per acre) = 1.36 ac-ft
100YR-24HR RUNOFF VOLUME = 6.28 ac-ft
SURPLUS VOLUME = 2.38 ac-ft
TOTAL DESIGN CAPACITY = 10.02 ac-ft

Notes:

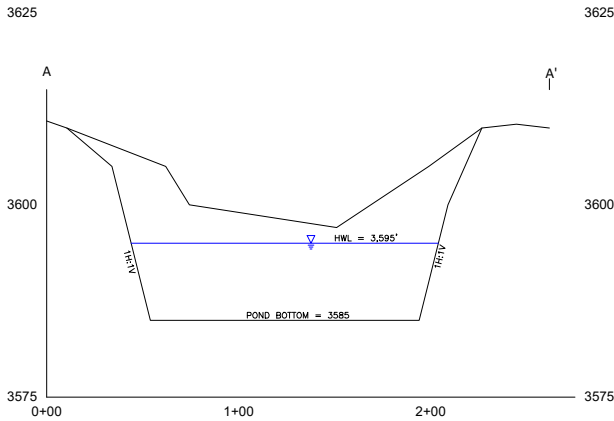
- Pond 50 will receive disturbed area runoff during the initial stages of the Pearson Creek Access Road.
- The design for Pond 50 requires the upstream PC Incised Flood Control Reservoir being constructed.
- Flood control will be provided by PC Incised Flood Control Reservoir.

CERTIFICATE OF ENGINEER

I, Owen Lindblom, hereby certify that this map and drawings were prepared by myself or under my direct supervision and that they correctly represent the facilities and conditions described in the accompanying application.

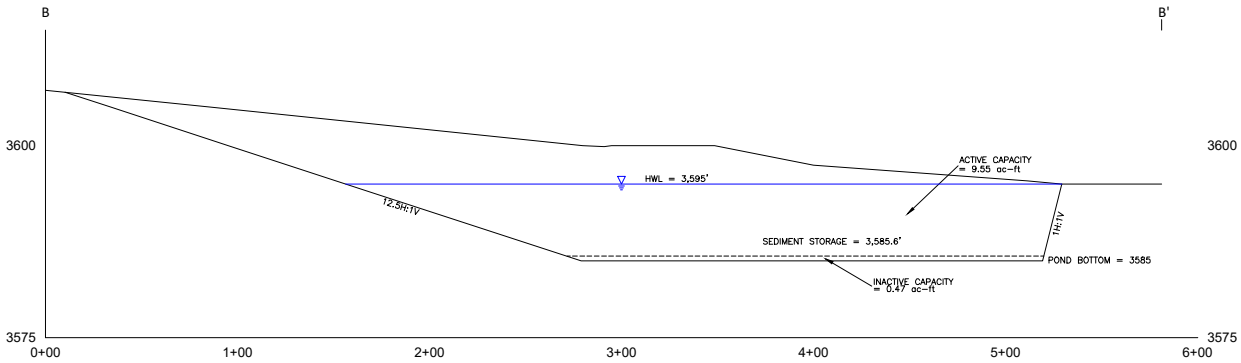


OWEN LINDBLOM, P.E. No. 36748PE



PROFILE A-A'

SCALE: H: 1" = 100'
V: 1" = 50'



PROFILE B-B'

SCALE: H: 1" = 100'
V: 1" = 50'



SPRING CREEK MINE
P.O. BOX 67, DECKER, MT 59025
PHONE: (406) 757-2581

DATE	REVISION	Sediment Control Pond 50 Design		
BY				
DESIGN	ODL	DRAWN	ODL	DATE 01/06/2021 SHEET 1 OF 1
SCALE	As Shown	CONTOUR INTERVAL	As Shown	FILE NUMBER Pond 50.dwg