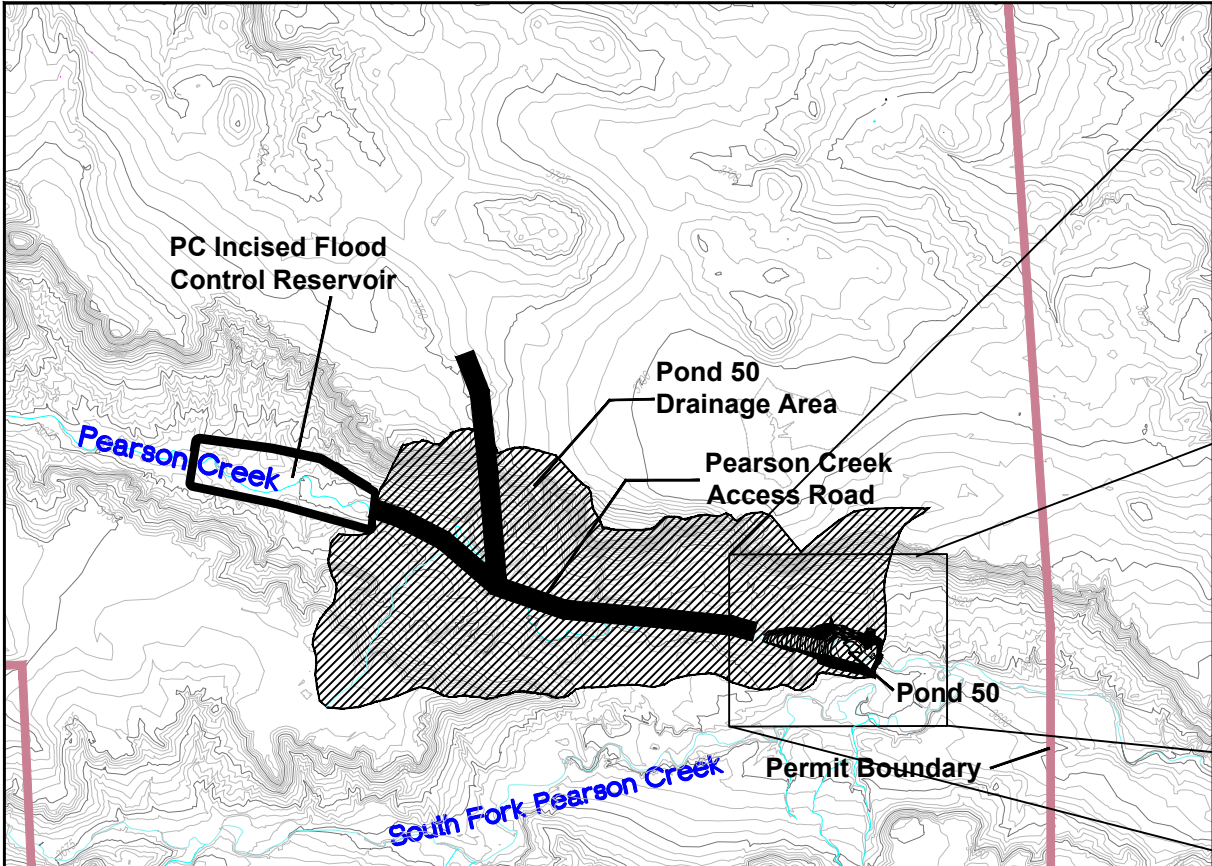
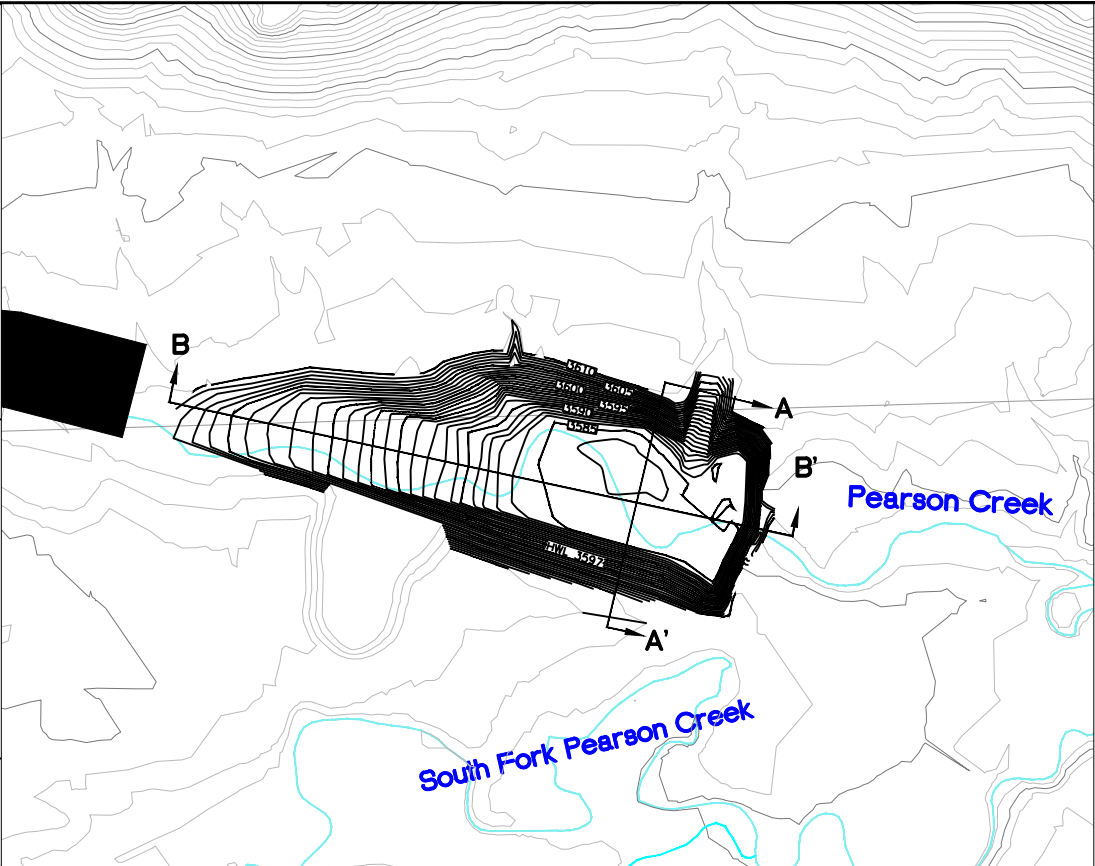




LOCATION MAP

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

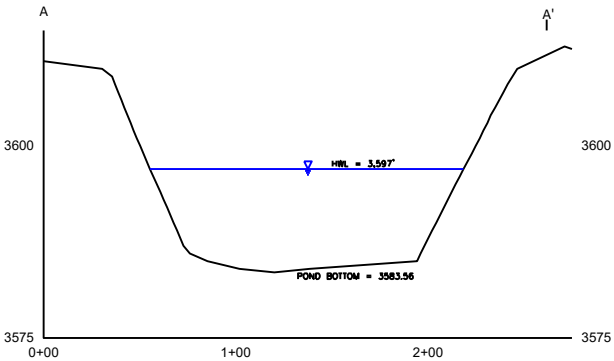


PLAN MAP

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

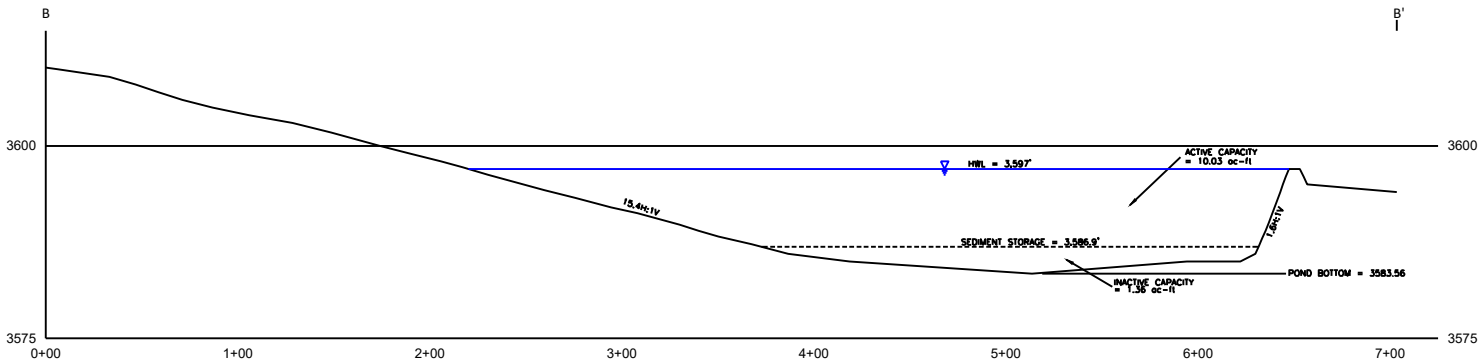
Notes:

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



PROFILE A-A'

SCALE: H: 1" = 100'
V: 1" = 25'



PROFILE B-B'

SCALE: H: 1" = 100'
V: 1" = 25'

ELEVATION	AREA (ACRES)	AVERAGE AREA (ACRES)	INCREMENTAL CAPACITY (ACRE-FEET)	CUMULATIVE CAPACITY (ACRE-FEET)	USE
3583.56	0.000			0.00	
		0.21	0.31		
3585	0.430			0.31	
		0.55	1.05		
3586.9	0.674			1.36	
		0.77	2.38		
3590	0.860			3.74	
		1.03	5.13		
3595	1.192			8.87	
		1.26	2.53		
3597	1.334			11.39	
HIGH WATER LINE = 3597.00 FT, TOTAL CAPACITY = 11.39					

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

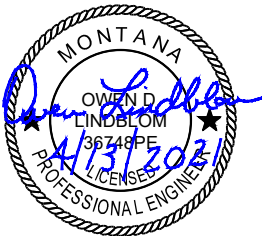
RAINFALL DISTRIBUTION = SCS TYPE II
PRECIPITATION (10YR-24HR) = 2.19 in
PEAK Q (10YR-24HR) = 60.28 cfs
VOLUME (10YR-24HR) = 2.62 ac-ft
DESIGN METHOD = SCS RUNOFF CURVE NUMBER
METHOD AND SCS TRIANGULAR
HYDROGRAPH METHOD
(TRIHEDRO)

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

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



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

DATE	REVISION
4/13/21	As-Built Conditions
ODL	

Sediment Control
Pond 50 Design

As-Built

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